SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

Issue Date/ Description: 06/01/22 GMP SET
MPS Project No: 020420.00
Agency Review ID:

NOTE: IMAGE SHOWN FOR REFERENCE ONLY, PHASE 2 & PHASE 3

OWNER

DISTRICT FIVE SCHOOLS OF SPARTANBURG COUNTY
100 NORTH DANZLER ROAD
DUNCAN, SC 29334
864-949-2350
https://www.spart5.net/

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joekinsey@mcknightconstructionco.com

MR. JOE KINSEY

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SPARTANBURG, SC, 29306
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CIVIL

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MR. TREY BLACKWOOD, PE

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GREENVILLE, SC 29607

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PLUMBING

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MR. SHANE BULMAN, PE

MECHANICAL

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MR. SHANE BULMAN, PE

ELECTRICAL

CAROLINA ENGINEERING SOLUTIONS
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GREENVILLE, SC 29601
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MR. JAMES JOYE, PE

FIRE PROTECTION

MADDOX ENGINEERING
420 The Pkwy # F2
GREER, SC 29650
864-334-1875
WARREN@MADDOXENG.PRO

MR. WARREN MADDOX, PE

AV PRODUCTION SYSTEMS

JAMES S. BRAWLEY & ASSOCIATES, INC.
115 BROOKWOOD DRIVE
CLEMSON, SC 29631
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JAMESB1667@AOL.COM

MR. JIM BRAWLEY

DRAWING LIST

GENERAL

SHEET NO	SHEET NAME	REV
G001	COVER SHEET	C
LS100	OSF F3 FORM NEW CONSTRUCTION CODE ANALYSIS	C
LS101	OSF F3 FORM EXISTING BUILDING CODE ANALYSIS	B
LS102	LIFE SAFETY PLANS - BASEMENT AND 1000 LEVEL	C
LS103	LIFE SAFETY PLAN - 1100 LEVEL	C

CIVIL

SHEET NO	SHEET NAME	REV
LS104	LIFE SAFETY PLAN - 1200 LEVEL	C
CV1.1	EXISTING CONDITIONS	C
CV1.2	SITE PREPARATION PLAN	C
CV1.3	SITE DEMOLITION PLAN	C
CV2.1	SITE PLAN	C
CV3.1	GRADING PLAN	C
CV4.1	SITE DETAILS	C
CV4.2	SITE DETAILS	C

ARCHITECTURAL

SHEET NO	SHEET NAME	REV
CV4.3	SITE DETAILS	C
A001	ABBREVIATION, SYMBOLS AND LEGENDS	C
A002	PARTITION TYPES - EXTERIOR	C
A003	PARTITION TYPES - INTERIOR	C
A100	ARCHITECTURAL SITE PLAN	C
A101	EXTERIOR STAIRS & RAMP	C
A102	EXTERIOR STAIR, MECH. COURTYARD	C
A103	SIDEWALK & FENCING PLANS	C
A110	PHASE 2 - BASEMENT FLOOR PLAN	C
A111	PHASE 2 - 1000 LEVEL - OVERALL FLOOR PLAN	C
A112	PHASE 2 - 1100 LEVEL - OVERALL FLOOR PLAN	C
A113	PHASE 2 - 1200 LEVEL - OVERALL FLOOR PLAN	C
A114	PHASE 2 - 1000 LEVEL - FLOOR PLAN AREA A	C
A115	PHASE 2 - 1000 LEVEL - FLOOR PLAN AREA B	C
A116	PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA A	C
A117	PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA B	C
A118	PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA C	C
A119	PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA A	C
A120	PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA B	C
A121	PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA C	C
A122	PHASE 2 - CLERESTORY PLAN	C
A130	OVERALL ROOF PLAN	C
A131	ROOF DETAILS	C
A200	1000 LEVEL - OVERALL REFLECTED CEILING PLAN	C
A201	1100 LEVEL - OVERALL REFLECTED CEILING PLAN	C
A202	1200 LEVEL - OVERALL REFLECTED CEILING PLAN	C
A203	1000 LEVEL - AREA A REFLECTED CEILING PLAN	C
A204	1000 LEVEL - AREA B REFLECTED CEILING PLAN	C
A205	1100 LEVEL - AREA A REFLECTED CEILING PLAN	C
A206	1100 LEVEL - AREA B REFLECTED CEILING PLAN	C
A207	1100 LEVEL - AREA C REFLECTED CEILING PLAN	C
A208	1200 LEVEL - AREA A REFLECTED CEILING PLAN	C
A209	1200 LEVEL - AREA B REFLECTED CEILING PLAN	C
A210	1200 LEVEL - AREA C REFLECTED CEILING PLAN	C
A240	CEILING DETAILS	C

ARCHITECTURAL CONT.

SHEET NO	SHEET NAME	REV
A241	CEILING DETAILS	C
A300	BUILDING ELEVATIONS - OVERALL	C
A301	BUILDING ELEVATIONS/SECTIONS - OVERALL	C
A310	BUILDING ELEVATIONS - ENLARGED	C
A330	BUILDING SECTIONS	C
A331	BUILDING SECTIONS	C
A350	WALL SECTIONS - AREA A	C
A351	WALL SECTIONS - AREA A	C
A352	WALL SECTIONS - AREA B	C
A353	WALL SECTIONS - AREA B	C
A354	WALL SECTIONS - AREA C	C
A355	WALL SECTIONS - AREA C - ENTRANCE	C
A356	WALL SECTIONS - AREA C	C
A357	WALL SECTIONS - MISCELLANEOUS	C
A358	WALL SECTIONS - AREA A SEQUENCE AT B1/A358	C
A419	ENLARGED TOILET PLANS	C
A420	ENLARGED TOILET PLANS	C
A500	ENLARGED MONUMENTAL STAIR PLANS & SECTIONS	C
A501	MONUMENTAL STAIR DETAILS	C
A502	STAIR DETAILS	C
A503	ENLARGED STAIR 2 PLANS & SECTIONS	C
A504	ENLARGED STAIR 3 PLANS & SECTIONS	C
A505	ENLARGED STAIR 4 PLANS & SECTIONS	C
A600	PLAN DETAILS - AREAS A/B - BASEMENT	C
A601	PLAN DETAILS - AREAS A/B - LEVEL 1000	C
A602	PLAN DETAILS - AREAS A/B - LEVELS 1000, 1100 AND 1200	C
A603	PLAN DETAILS - AREAS A/B - LEVELS 1100 AND 1200	C
A604	PLAN DETAILS - AREAS A/B - LEVEL 1200 & CLERESTORY	C
A605	PLAN DETAILS - AREAS A/B - MISCELLANEOUS	C
A606	PLAN DETAILS - AREA C - LEVELS 1100 AND 1200	C
A607	PLAN DETAILS - AREA C - LEVELS 1100 AND 1200	C
A608	PLAN DETAILS - AREA C - CLERESTORY AND MISCELLANEOUS	C
A610	SECTION DETAILS	C
A611	SECTION DETAILS	C
A612	SECTION DETAILS	C
A613	SECTION DETAILS	C
A614	SECTION DETAILS	C
A615	SECTION DETAILS	C
A616	SECTION DETAILS	C
A617	SECTION DETAILS	C
A618	SECTION DETAILS	C
A619	SECTION DETAILS	C
A700	INTERIOR ELEVATIONS	C
A701	INTERIOR ELEVATIONS	C
A702	INTERIOR ELEVATIONS	C
A703	INTERIOR ELEVATIONS	C
A704	INTERIOR ELEVATIONS	C
A710	INTERIOR ELEVATIONS - MEDIA CENTER	C
A711	INTERIOR ELEVATIONS - MAIN ENTRANCE	C
A712	INTERIOR ELEVATIONS - DISPLAY CABINET & BENCH	C
A800	DOOR SCHEDULE	C
A810	DOOR DETAILS	C
A821	EXTERIOR WINDOW ELEVATIONS AND SCHEDULE	C
A822	INTERIOR WINDOW ELEVATIONS AND SCHEDULE	C

INTERIORS

SHEET NO	SHEET NAME	REV
A830	WINDOW DETAILS	C
ID100	ROOM FINISH SCHEDULE	C
ID111	1000 LEVEL - FINISH PLAN - AREA A	C
ID112	1000 LEVEL - FINISH PLAN - AREA B	C
ID113	1100 LEVEL - FINISH PLAN - AREA A	C
ID114	1100 LEVEL - FINISH PLAN - AREA B	C
ID115	1100 LEVEL - FINISH PLAN - AREA C	C
ID116	1200 LEVEL - FINISH PLAN - AREA A	C
ID117	1200 LEVEL - FINISH PLAN - AREA B	C

STRUCTURAL

SHEET NO	SHEET NAME	REV
ID118	1200 LEVEL - FINISH PLAN - AREA C	C
S001	PROJECT NOTES & DESIGN CRITERIA	C
S002	PROJECT NOTES	C
S003	SPECIAL INSPECTION NOTES	C
S004	SOIL NAIL RETAINING WALL NOTES	C
S010	OVERALL DIMENSION PLAN	C
S100A.1	FOUNDATION & S.O.G. PLAN - AREA 'A' BASEMENT	C
S100A.2	FOUNDATION & S.O.G PLAN - AREA 'A' LEVEL 1000	C
S100B	FOUNDATION & S.O.G. PLAN - AREA 'B' LEVEL 1000	C
S100C	FOUNDATION & S.O.G PLAN - AREA - 'C'	C
S101	RETAINING WALL PLAN	C
S102	NORTH DOCK AND RAMP PLAN, SECTIONS & DETAILS	C
S110	FOUNDATION SECTIONS & DETAILS	C
S111	FOUNDATIONS SECTIONS & DETAILS	C
S112	FOUNDATIONS SECTIONS & DETAILS	C
S113	FOUNDATIONS SECTIONS & DETAILS	C
S114	FOUNDATIONS SECTIONS & DETAILS	C
S115	ALTERNATE 1 COOLING TOWER FDN. DETAILS	C
S200	1000 LEVEL LINTEL PLAN - AREA 'A'	C
S201	1000 LEVEL LINTEL PLAN - AREA 'B'	C
S202	1100 LEVEL LINTEL PLAN - AREA 'A'	C
S203	1100 LEVEL LINTEL PLAN - AREA 'B'	C
S204	1100 LEVEL LINTEL PLAN - AREA 'C'	C
S205	1200 LEVEL LINTEL PLAN - AREA 'A'	C
S206	1100 LEVEL LINTEL PLAN - AREA 'B'	C
S207	1200 LEVEL LINTEL PLAN - AREA 'C'	C
S208	LINTEL SECTIONS & DETAILS	C
S209	LINTEL SECTIONS & DETAILS	C
S210	STAIR ELEVATIONS & SECTIONS	C
S301A	1100 LEVEL FRAMING PLAN - AREA 'A'	C
S301B	1100 LEVEL FRAMING PLAN - AREA 'B'	C
S302A	1200 LEVEL FRAMING PLAN - AREA 'A'	C
S302B	1200 LEVEL FRAMING PLAN - AREA 'B'	C
S302C	1200 LEVEL FRAMING PLAN - AREA 'C'	C
S303A	ROOF FRAMING PLAN - AREA 'A'	C
S303B	ROOF FRAMING PLAN - AREA 'B'	C
S303C	ROOF FRAMING PLAN - AREA 'C'	C
S304	HIGH ROOF FRAMING PLANS	C
S310	FRAMING SECTIONS & DETAILS	C
S311	FRAMING SECTIONS & DETAILS	C
S400	FRAMING ELEVATIONS	C
S401	FRAMING ELEVATIONS	C
S402	FRAMING ELEVATIONS	C

PLUMBING

SHEET NO	SHEET NAME	REV
S403	COLD FORMED STL. FRAMING DETAILS (SUGGESTED)	C
P001	PLUMBING COVER SHEET	C
P101	BASEMENT PLUMBING PLAN	C
P111	1000 LEVEL - PLUMBING PLAN AREA A	C
P112	1000 LEVEL - PLUMBING PLAN AREA B	C
P113	1000 LEVEL - OVERHEAD PLUMBING PLAN AREA A	C
P114	1000 LEVEL - OVERHEAD PLUMBING PLAN AREA B	C
P121	1100 LEVEL - PLUMBING PLAN AREA A	C
P122	1100 LEVEL - PLUMBING PLAN AREA B	C
P123	1100 LEVEL - PLUMBING PLAN AREA C	C
P124	1100 LEVEL - OVERHEAD PLUMBING PLAN AREA A	C
P125	1100 LEVEL - OVERHEAD PLUMBING PLAN AREA B	C
P126	1100 LEVEL - OVERHEAD PLUMBING PLAN AREA C	C
P131	1200 LEVEL - PLUMBING PLAN AREA A	C
P132	1200 LEVEL - PLUMBING PLAN AREA B	C
P133	1200 LEVEL - PLUMBING PLAN AREA C	C
P201	PLUMBING SHEDULES & DETAILS	C

MECHANICAL

SHEET NO	SHEET NAME	REV
P202	PLUMBING DETAILS	C
M001	HVAC GENERAL NOTES AND SYMBOLS	C
M101	HVAC - LEVEL 1000 FLOOR PLAN PH. 2	C
M102	HVAC - LEVEL 1100 - AREA 'A' FLOOR PLAN PH 2	C
M103	HVAC - LEVEL 1100 - AREA 'B' FLOOR PLAN PH 2	C
M104	HVAC - LEVEL 1100 - AREA 'C' FLOOR PLAN PH 2	C
M105	HVAC - LEVEL 1200 - AREA 'A' FLOOR PLAN PH 2	C
M106	HVAC - LEVEL 1200 - AREA 'B' FLOOR PLAN PH2	C
M107	HVAC - LEVEL 1200 - AREA 'C' FLOOR PLAN PH2	C
M108	HVAC - ROOF PLAN - PHASE 2	C
M201	PIPING - LEVEL 1000 FLOOR PLAN PH 2	C
M202	PIPING - LEVEL 1100 FLOOR PLAN PH 2	C
M203	PIPING - LEVEL1200 - FLOOR PLAN PH 2	C
M204	MAIN MECHANICAL ROOM PIPING PLAN & DETAILS	C
M300	ENLARGED MECHANICAL ROOM PLANS AND SECTIONS	C
M400	HVAC - DETAILS & SCHEDULES	C
M401	HVAC SCHEDULES	C
M500	HVAC DETAILS	C
M501	HVAC DETAILS	C

ELECTRICAL

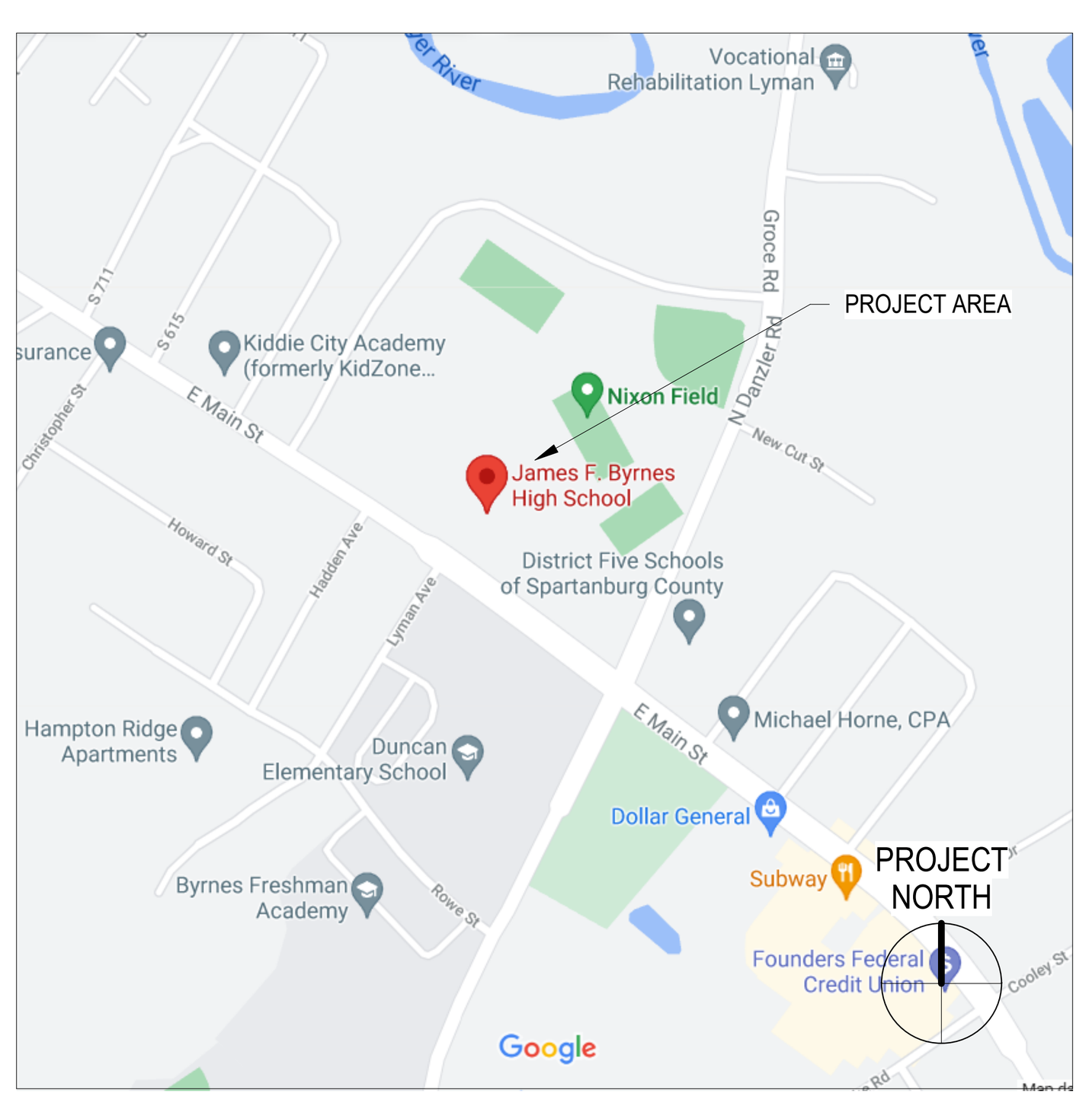
SHEET NO	SHEET NAME	REV
M502	HVAC DETAILS	C
E101	ELECTRICAL SYMBOLS AND SPECIFICATIONS	C
E102	LIGHTING FIXTURE SCHEDULE & DETAILS	C
E103	MECHANICAL ELECTRICAL SCHEDULE	C
E104	ELECTRICAL RISER DIAGRAM	C
E105	ELECTRICAL PANEL SCHEDULES	C
E106	ELECTRICAL PANEL SCHEDULES	C
E107	ELECTRICAL PANEL SCHEDULES	C
E108	ELECTRICAL PANEL SCHEDULES	C
E109	ELECTRICAL PANEL SCHEDULES	C
E110	ELECTRICAL PANEL SCHEDULES	C
E111	ELECTRICAL PANEL SCHEDULES	C
E112	ELECTRICAL DETAILS	C
E113	ELECTRICAL DETAILS	C
E114	ELECTRICAL DETAILS	C
E115	CCTV CAMERA AND SECURITY RISER DIAGRAM	C
E116	INTERCOM SYSTEM RISER DIAGRAM	C
E117	DATA SYSTEMS RISER DIAGRAM	C
E201	LIGHTING PLAN - BASEMENT & LEVEL 1000 - AREA 'A'	C
E202	LIGHTING PLAN - LEVEL 1000 - AREA 'B'	C
E203	LIGHTING PLAN - LEVEL 1100 - AREA 'A'	C
E204	LIGHTING PLAN - LEVEL 1100 - AREA 'B'	C
E205	LIGHTING PLAN - LEVEL 1100 - AREA 'C'	C
E206	LIGHTING PLAN - LEVEL 1200 - AREA 'A'	C
E207	LIGHTING PLAN - LEVEL 1200 - AREA 'B'	C
E208	LIGHTING PLAN - LEVEL 1200 - AREA 'C'	C
E301	POWER PLAN - BASEMENT & LEVEL 1000 - AREA 'A'	C
E302	POWER PLAN - LEVEL 1000 - AREA 'B'	C
E303	POWER PLAN - LEVEL 1100 - AREA 'A'	C
E304	POWER PLAN - LEVEL 1100 - AREA 'B'	C
E305	POWER PLAN - LEVEL 1100 - AREA 'C'	C
E306	POWER PLAN - LEVEL 1200 - AREA 'A'	C
E307	POWER PLAN - LEVEL 1200 - AREA 'B'	C
E308	POWER PLAN - LEVEL 1200 - AREA 'C'	C
E309	POWER PLAN - ROOF	C
E401	SPECIAL SYSTEMS PLAN - BASEMENT & LEVEL 1000 - AREA 'A'	C
E402	SPECIAL SYSTEMS PLAN - LEVEL 1000 - AREA 'B'	C
E403	SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'A'	C
E404	SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'B'	C
E405	SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'C'	C
E406	SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'A'	C
E407	SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'B'	C
E408	SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'C'	C
E409	CABLE TRAY & IDF PLAN - LEVEL 1000	C
E410	CABLE TRAY & IDF PLAN - LEVEL 1100	C
E411	CABLE TRAY & IDF PLAN - LEVEL 1200	C
E412	INTERCOM SYSTEM PLAN - LEVEL 1000	C
E413	INTERCOM SYSTEM PLAN - LEVEL 1100	C
E414	INTERCOM SYSTEM PLAN - LEVEL 1200	C
E415	SECURITY SYSTEM PLAN - LEVEL 1000	C
E416	SECURITY SYSTEM PLAN - LEVEL 1100	C
E417	SECURITY SYSTEM PLAN - LEVEL 1200	C
E418	FIRE ALARM PLAN - LEVEL 1000	C
E419	FIRE ALARM PLAN - LEVEL 1100	C

FIRE PROTECTION

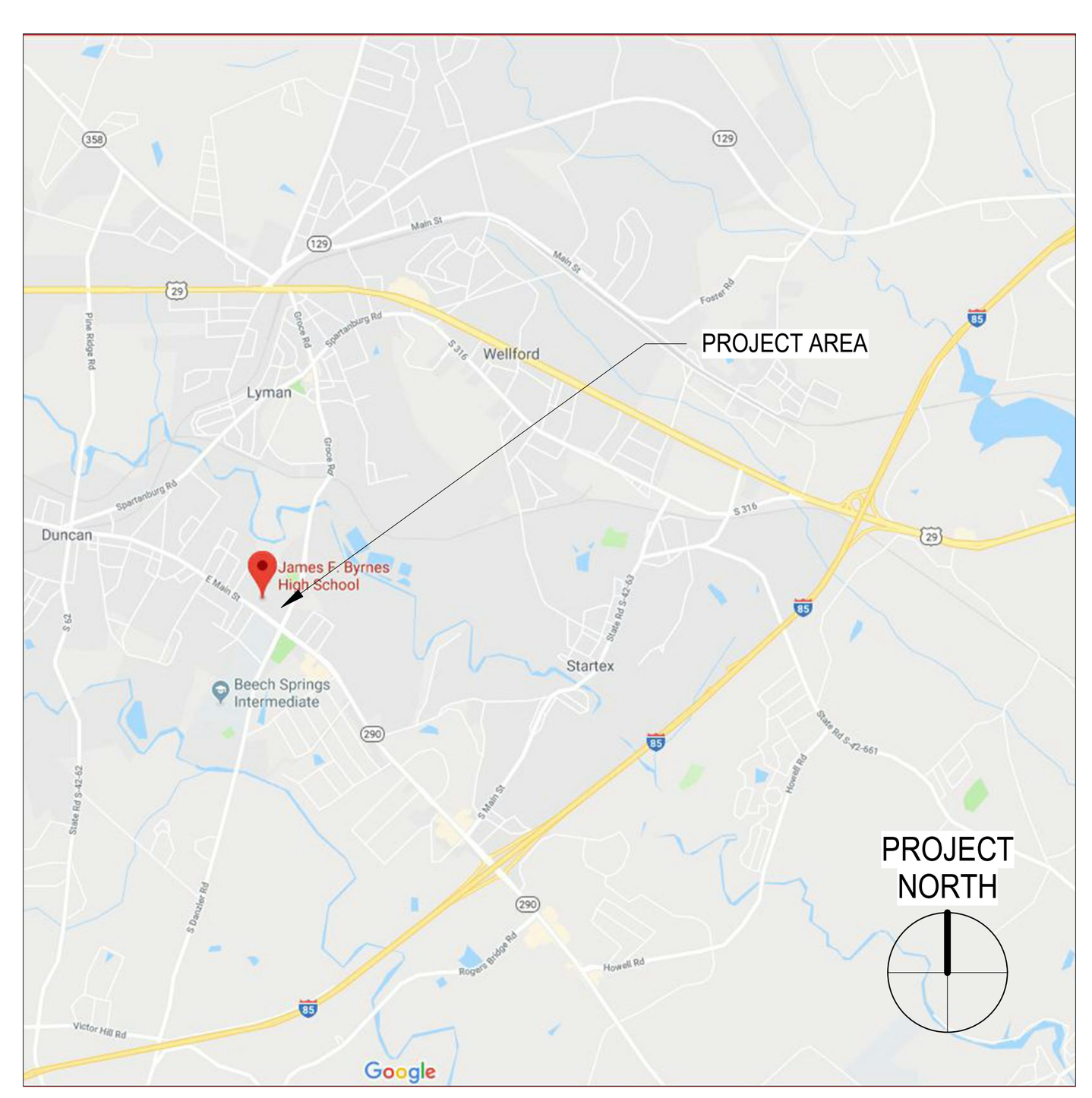
SHEET NO	SHEET NAME	REV
E420	FIRE ALARM PLAN - LEVEL 1200	C
FP001	FIRE PROTECTION NOTES, DETAILS AND SPEC. SHEET	C
FP100	FIRE PROTECTION PLAN - PHASE 2 BASEMENT	C
FP101	FIRE PROTECTION PLAN - PHASE 2 LEVEL 1000	C
FP102	FIRE PROTECTION PLAN - PHASE 2 LEVEL 1100	C

AV PRODUCTION SYSTEMS

SHEET NO	SHEET NAME	REV
FP103	FIRE PROTECTION PLAN - PHASE 2 LEVEL 1200	C
AV100	PHASE 2 - 1200 LEVEL MEDIA LAB AV LEGEND	C
AV101	PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOOR PLAN	C
AV201	PHASE 2 - 1200 LEVEL MEDIA LAB AV RCP	C
AV301	PHASE 2 - 1200 LEVEL MEDIA LAB ACOUSTICS PLAN	C
AV401	PHASE 2 - 1200 LEVEL MEDIA LAB AV DETAILS 1	C
AV402	PHASE 2 - 1200 LEVEL MEDIA LAB AV DETAILS 2	C
AV403	PHASE 2 - 1200 LEVEL MEDIA LAB AV DETAILS	C
AV501	PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOW	C
AV502	PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOW	C
AV503	PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOW	C



SITE MAP



VICINITY MAP

GENERAL NOTES

1. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
2. ALL CONSTRUCTION SHALL BE HANDICAPPED ACCESSIBLE AND COMPLY WITH BARRIER FREE DESIGN AND OTHER APPLICABLE STANDARDS.
3. DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO EDGE OF FRAME UNLESS OTHERWISE NOTED.
4. PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE W/ NFPA 10. INSTALL WALL MOUNTED FIRE EXTINGUISHER (FE) AT 4'-0" AFF TO TOP OF CABINET. GENERAL CONTRACTOR TO COORDINATE LOCATIONS WITH LOCAL FIRE MARSHALL.
5. HORIZONTALLY BRACE (STIFFEN) ALL METAL STUD SYSTEMS AS RECOMMENDED AND BRACE TOPS OF ALL PARTITIONS TO STRUCTURE ABOVE.
6. THE GENERAL CONTRACTOR SHALL PROVIDE CONTROL JOINTS (CJ) IN ALL MASONRY WALLS AS SHOWN IN THE DRAWINGS, BUT NOT TO EXCEED 30'-0" LINEAR BETWEEN JOINTS. THE CONTROL JOINT SHALL CONTINUE UP FULL HEIGHT OF WALL. AN ALUMINUM COVER PLATE RUNNING FROM FLOOR TO CEILING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR EACH EXPOSED CONTROL JOINT. AT LOCATIONS WHERE A COVER PLATE IS NOT EXPOSED, COLORS OF SOFT JOINT SEALANT SHALL MATCH THAT OF THE WALL CONSTRUCTION MATERIAL. THE GENERAL CONTRACTOR SHALL COORDINATE THE CONTROL JOINT QUANTITY, SPACING AND LOCATIONS WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
7. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.
8. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR CONFLICTS BETWEEN THE ARCHITECTURAL DRAWINGS AND THOSE OF THE ENGINEERS OR THE ARCHITETURAL DRAWINGS AND THE PROJET MANUAL, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
9. FIRE RETARDANT TREATED WOOD IS NOT ALLOWED BY THE OFFICE OF SCHOOL FACILITIES (2020 OSF PLANNING AND CONSTRUCTION GUIDE, SECTION 110.2). WOOD THAT IS ALLOWED TO BE FIRE RETARDANT TREATED PER THE IBC SHALL BE PAINTED WITH FIRE RETARDANT TREATED PAINT ON SIX SIDES. ALL WOOD IN CONTACT WITH MORTAR, CONCRETE, OR MASONRY TO BE PRESSURE TREATED.
10. ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO THE SUPPLIERS REQUIREMENTS.
11. ALL INTERIOR MASONRY DIMENSIONS GIVEN ARE FROM FACE OF FINISH OR CENTERLINE OF COLUMN, UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUD DIMENSIONS GIVEN ARE FROM CENTERLINE OF STUD, UNLESS OTHERWISE NOTED. EXTERIOR DIMENSIONS ARE FROM FACE/ EDGE OF MASONRY/ CONCRETE OR COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.
12. THESE DRAWINGS ARE INTENDED TO BE PRINTED IN COLOR.

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
A	07/15/21	SD PRICING	MLC
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC

SHEET TITLE:
COVER SHEET

SHEET NO. PROJ. NO. 020420.00

G001

Form F3 - Building Code Analysis

Date: 06/01/2022

SUBMITTAL:	☐ Schematic	☐ Design Development	☒ Construction Document

SC CODE EDITION:	2018	ICC CODE EDITION:	2018	ICC A117.1 EDITION:	2017	OSF GUIDE EDITION:	2020
OTHER CODES/STANDARDS & EDITIONS:							

PROJECT DESCRIPTION: Addition of a 3-story building portion (Phase 2) to the existing Byrnes High School in Duncan, South Carolina. Existing building areas will be demolished prior to the construction of the Phase 2 addition. This will be a construction management at risk project delivery.

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	Building Code	FIRE AREA 1	FIRE AREA 2			
	-	☒ SCBC ☐ SCEBC	☒ SCBC ☐ SCEBC			
CONSTRUCTION CLASSIFICATION TYPE	Section 602	II-B	II-B			
OCCUPANCY GROUP (indicate all)	Section 302	B, E	B, E			
MOST RESTRICTIVE OCCUPANCY GROUP	Tables 504.3 504.4 & 506.2	E	E			
Does building require Incidental Use Area Separation?	Tables 509	☐ YES ☒ NO	☐ YES ☒ NO			
Does building have Accessory Occupancy (ies)?	Section 508.2	☐ YES ☒ NO	☐ YES ☒ NO			
What is the aggregate square footage of the accessory occupancy (ies)?	Section 508.2	N/A	N/A			
What percent of the story is the aggregate of the accessory occupancy (ies)?	Section 508.2	N/A	N/A			
Mixed Occupancy	Section 508	☒ YES ☐ NO ☒ Nonseparated ☐ Separated	☒ YES ☐ NO ☒ Nonseparated ☐ Separated			

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EXISTING BUILDING CODE INFORMATION [SCEBC]

N/A

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check only one Option and all items that apply under that Option.)	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF
	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:			
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

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Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

EXISTING BUILDING CODE INFORMATION [SCEBC]

N/A

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (Check only one Option and all items that apply under that Option.)	☐ Option 1: Prescriptive Compliance Method ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF

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N/A

	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:		
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

SUMMARY - BUILDING DESIGN OCCUPANCY LOAD

DESIGNATED AREAS OF BUILDING	FIRE AREA 1	FIRE AREA 2			
1st FLOOR	534	N/A			
2nd FLOOR	845	223			
3rd FLOOR	610	344			
TOTAL:	1,989	567			

Note: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan.

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ALLOWABLE BUILDING AREA

DESIGNATED AREAS OF BUILDING	FIRE AREA 1	FIRE AREA 2			
At = Tabular allowable area factor (NS, S1, S13R, or S as applicable) in accordance with IBC Table 506.2	A_t= 14,500 SF	At= 14,500 SF			
Allowable Area Increase (Equations 5-1 through 5-5, as applicable)	☐ YES ☒ NO L_n= SF	☐ YES ☒ NO Ln= SF			
IBC Section 506.3.2 Equations 5-4 where: W = (L_1 x w_1 + L_2 x w_2 + L_3 x w_3 +…) / F W = Width of public way or open space Ln = Length of a portion of the exterior perimeter wall. wn = Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall. F = Building perimeter that fronts on a public way or open space having a width of 20 feet or more.	w_n= SF W= SF F= SF	wn= SF W= SF F= SF			
IBC Section 506.3.3 Equation 5-5 where: **I_f = [F/P - 0.25] W/30** I_f = Area factor increase factor due to frontage F Building perimeter that fronts on a public way or open space having a width of 20 feet or more. P Perimeter of entire building (feet) W Width of public way or open space in accordance with Equation 5-4	P= SF I_f= SF	P= SF I_f= SF			

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	FIRE AREA 1	FIRE AREA 2			
Allowable building area per story in square feet as calculated by Equation 5-1 through 5-3. (Indicated equation used.) ☐ IBC 506.2.1 Equation 5-1: $A_a = At + (N_s \times I_f)$ ☐ IBC 506.2.3, Equation 5-2: $A_a = [A_t + (N_S \times I_f)] \times S_a$ ☐ IBC 506.2.4, Equation 5-3: $A_a = [A_t + (N_s \times I_f)]$ N_S Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building (regardless of whether the building is sprinklered) S_a = Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).	N_s= SF S_a= SF A_a= SF 14,500 + 29,000 = 43,500 SF	N_s= SF S_a= SF A_a= SF 14,500 + 29,000 = 43,500 SF			
MAXIMUM AREA PER STORY	43,500 SF	43,500 SF			
AREA AS DESIGNED PER STORY (Repeat for each story)	Bsmnt = 1,385 sf 1st = 26,576 sf 2nd = 31,677 sf 3rd = 29,979 sf	Bsmnt = N/A 1st = N/A 2nd = 20,178 sf 3rd = 17,427 sf			

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BUILDING HEIGHT

DESIGNATED AREAS OF BUILDING	Building Code	FIRE AREA 1		FIRE AREA 2			
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED		
In Feet	Table 504.3	66' - 11"	75' - 0"	42' - 4"	75' - 0"		
In Stories	Table 504.4	3	3	2	3		

Note: Allowable Building Height & Number of Stories Above Grade Plane

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GENERAL FIRE PROTECTION REQUIREMENTS

DESIGNATED AREAS OF BUILDING	Building Code	FIRE AREA 1	FIRE AREA 2		
SEPARATIONS					
Fire Wall Required	Section 706	☒ YES ☐ NO	☒ YES ☐ NO		
Fire Barrier Required	Section 707	☒ YES ☐ NO	☐ YES ☒ NO		
Fire Partition Required	Section 708	☐ YES ☒ NO	☐ YES ☒ NO		
Smoke Barriers Required	Section 709	☐ YES ☒ NO	☐ YES ☒ NO		
Smoke Partitions Required	Section 710	☒ YES ☐ NO	☒ YES ☐ NO		
Fireblocking	Section 718.2	☐ YES ☒ NO	☐ YES ☒ NO		
Draftstopping	Section 718.3 & 718.4	☐ YES ☒ NO	☐ YES ☒ NO		
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☒ NO ☐ YES ☒ NO		
ALARM & DETECTION					
Fire Alarm and Detection System Fire Alarm Mass Notification Emergency voice/alarm comm.	SCFC Section 907	☒ YES ☐ NO ☒ YES ☐ NO ☒ YES ☐ NO	☒ YES ☐ NO ☒ YES ☐ NO ☒ YES ☐ NO		
Emergency Alarm System Required	SCFC Section 908	☐ YES ☒ NO	☐ YES ☒ NO		
SUPPRESSION					
Automatic Sprinkler System Provided Required	SCFC Section 903	☒ YES ☐ NO ☒ YES ☐ NO	☒ YES ☐ NO ☒ YES ☐ NO		

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Alternative Automatic Fire Extinguishing Kitchen Hoods Other	SCFC Section 904	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☒ NO ☐ YES ☒ NO			
Standpipes Required	SCFC Section 905	☒ YES ☐ NO	☐ YES ☒ NO			
Portable extinguishers required General Building Kitchen Labs	SCFC Section 906	☒ YES ☐ NO ☐ YES ☒ NO ☒ YES ☐ NO	☒ YES ☐ NO ☐ YES ☒ NO ☒ YES ☐ NO			

OTHER FIRE AND LIFE SAFETY FEATURES

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2			
Smoke Control System	Section 909	☐ YES ☒ NO	☐ YES ☒ NO			
Smoke & Heat Removal Required	SCFC 910	☐ YES ☒ NO	☐ YES ☒ NO			
Fire Department Connections	Section 912	☒ YES ☐ NO	☒ YES ☐ NO			
Carbon Monoxide Detection	Section 915	☒ YES ☐ NO	☒ YES ☐ NO			
Gas Detection Systems	Section 916	☒ YES ☐ NO	☒ YES ☐ NO			
Emergency Responder Radio Coverage	Section 918	☒ YES ☐ NO	☒ YES ☐ NO			
Fire Apparatus Access and Water Line	SCFC 503 & 507	☒ YES ☐ NO	☒ YES ☐ NO			
2-way Communication Required	Section 1009.8	☒ YES ☐ NO	☒ YES ☐ NO			
Area of Refuge *(e.g. Separation, Two-Way Communication, and Instruction)*	Sections 1009.6 1009.9, 1009.10 & 1009.11	☐ YES ☒ NO	☐ YES ☒ NO			
Exterior Area for Assisted Rescue *(e.g. Separation, Openness, and Instruction)*	Sections 1009.7, 1009.9, 1009.10 & 1009.11	☒ YES ☐ NO	☐ YES ☒ NO			
Safe Dispersal Area	Section 1028.5	☐ YES ☒ NO	☐ YES ☒ NO			
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO			
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO			

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FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	FIRE AREA 1	FIRE AREA 2			
Primary Structural Frame	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Bearing Walls, Exterior	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Bearing Walls, Interior	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Nonbearing Walls, and Partitions, Interior	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			

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FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	FIRE AREA 1	FIRE AREA 2			
Nonbearing Walls and Partitions, Exterior	As Required, Hrs	Table 602	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Floor Construction and associated secondary members	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Roof Construction and associated secondary members	As Required, Hrs	Table 601	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Fire Walls	As Required, Hrs	Table 706	3	3			
	As Designed, Hrs		3	3			
	Testing Agency & Design No. (UL, FM, etc.)		U904	U904			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			

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FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	FIRE AREA 1	FIRE AREA 2			
Fire Barriers	As Required, Hrs	Table 707	2	2			
	As Designed, Hrs		2	2			
	Testing Agency & Design No. (UL, FM, etc.)		U905	U905			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			
Fire Partitions	As Required, Hrs	Table 708	1	1			
	As Designed, Hrs		1	1			
	Testing Agency & Design No. (UL, FM, etc.)		U905	U905			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			
Smoke Barriers	As Required, Hrs	Table 709	1	1			
	As Designed, Hrs		1	1			
	Testing Agency & Design No. (UL, FM, etc.)		U905	U905			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			
Smoke Partitions	As Required, Hrs	Table 710	0	0			
	As Designed, Hrs		0	0			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			

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FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	FIRE AREA 1	FIRE AREA 2			
Horizontal Assemblies	As Required, Hrs	Table 711	0	0			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			
Shaft Enclosures	As Required, Hrs	Table 712 & 713	2	2			
	As Designed, Hrs		2	2			
	Testing Agency & Design No. (UL, FM, etc.)		U905	U905			
	Wall / Partition Key Code		SEE WALL TYPE	SEE WALL TYPE			
Opening & Protective Listing by Category (fire shutters, doors, etc)	As Required, Hrs	Table 716	45 MIN, 3HR	45 MIN, 3 HR			
	As Designed, Hrs		45 MIN, 3 HR	45 MIN, 3 HR			
	Testing Agency & Design No. (UL, FM, etc.)		SEE LEGEND	SEE LEGEND			
	Wall / Partition Key Code		SEE DOOR SCHED.	SEE DOOR SCHED.			
Others (as required by Designer)	As Required, Hrs		N/A	N/A			
	As Designed, Hrs		N/A	N/A			
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A			
	Wall / Partition Key Code		N/A	N/A			

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FLOOD HAZARD INFORMATION and FLOOD LOADS

FLOOD HAZARD AREA	
Base Flood Elevation (NGVD or FIRM)	000 MSL
Design Floor Elevation IBC 1612.3 and ASCE 24	000 MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1) Dry flood proofing ASCE 24	000 MSL ☐ no ☐ yes
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor Flotation resistant (ASCE 24) Breakaway wall per ASCE 24	000 MSL ☐ no ☐ yes ☐ no ☐ yes

FIRE SERVICE INFORMATION

Service Line Size		Existing 6"
Fire Department Connection	Location	Existing
Backflow	Location	Existing
	Type	Existing
Fire Hydrant Flow Test	Date	MM/DD/YYYY
	Flow	000 GPM
	Residual	000 psi
	Static	000 psi

ENERGY INFORMATION

INSULATION		
Roof	Cavity	00 R
	Continuous	00 R
Walls	Cavity	00 R
	Continuous	00 R
Underslab		
GLAZING (each type)		
Window to wall ratio	North	00 %
	East	00 %
	South	00 %
	West	00 %
Glass Type: N/A	U Factor	N/A
	SHG	N/A
	N/A	N/A

Summary of data from approved ASHRAE 90.1 compliance sheets.

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Per IBC Chapter 16 and ASCE 7 - Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STRUCTURAL DESIGN INFORMATION, AREA

		Building Code	FIRE AREA 1	FIRE AREA 2			
OCCUPANCY CATEGORY (IBC Table 1604.5)		Table 1604.5	III	III			
LIVE LOAD FOR EACH OCCUPANCY TYPE	Floor Live Load, F_{ll}	Figure 1608.2 or ASCE 7	80 psf	80 psf			
	Roof Live Load, R_{ll}		20 psf	20 psf			
	Ground Snow Load, p_g		10 psf	10 psf			
MISCELLANEOUS LOADS BY SPECIAL USE AREA *(ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.,)*		ASCE 7	150 psf	150 psf			

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SOILS & SITE

SOILS INVESTIGATION REQUIRED? **(IBC 1803.2)**	☐ no ☒ yes
SOILS CLASSIFICATION	
Seismic Site Class **(SCBC Section 1613.3.2)**	C
Classes Soil of Materials (UCS System) **(SCBC 1803.5.1)**	CL/SM
Allowable Footing Bearing Pressure	3000 psf
MINIMUM DESIGN SOIL BEARING LOAD **(SCBC Table 1806.2)**	3000 psf
COMPACTION	
Subgrade **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	95 %
Base **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	98 %
Other **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	
MINIMUM DESIGN SOIL LATERAL LOAD **(SCBC Table 1610.1)**	a 100 psf p 60 psf
FOOTINGS	
Undisturbed footings	☐ no ☒ yes
Compacted Fill Material **(SCBC Section 1804.6)**	☐ no ☒ yes
ELEVATIONS	
Elevation of Water Table	N/A MSL
Elevation of lowest footing	841.40 MSL
Elevation of lowest floor or basement	843.40 MSL

STRUCTURAL DESIGN INFORMATION, BUILDING

WIND LOADS	Analysis Procedure **(ASCE 7 or IBC 1609.6)**	7-16
	Basic Wind Speed, MPH **(3 sec gust IBC fig. 1609.3)**	115=V
	Exposure Category	B
	Wind Importance Factor **(ASCE 7 Table 1.5-2)**	I_w = 1.00
	Internal Pressure Coefficient **(ASCE 7)**	GC_{pi} = .18
	External Pressure Coefficient **(ASCE 7)**	GC_p = .45
SEISMIC LOADS/ Earthquake	Seismic Importance Factor **(ASCE 7)**	I = 1.25
	Site Class **(SCBC Section 1613.3.2)**	D
	Mapped Spectral Response Accelerations	S_s = .279 S_1 = .092
	Design Spectral Response Acceleration Parameters	S_{DS} = .242 S_{D1} = .092
	Seismic Use Group **(ASCE 7 and Seismic Occupancy Category IBC)**	III
	Seismic Design Category **SCBC Tables 1613.3.5(1) & 1613.3.5(2)**	B
	Basic Seismic Force Resisting System	INT.CMU
	Design Base Shear	700 KIPS
	Seismic Response Coefficient(s) **ASCE 7**	C_s = .081
	Response Modification Factor(s) **ASCE 7**	R = 3
	Analysis Procedure	ELF

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The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 & 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or 1705 must be approved by OSF. Per SCBC Chapter 16 and ASCE 7 - This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 1

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 17

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

SEE SPECIAL INSPECTIONS ON SHEET S003

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 17

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

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PLUMBING INFORMATION

WATER SYSTEM		
Service Line Size	4 Inches	
Distribution Design Criteria **(SCPC Table 604.3)**	1920 Fixture Units	
Maximum Flow Rate **(SCPC Table 604.4)**	424.8 GPM	
Backflow	Location	N/A
	Type	N/A
Test Pressure	000 psi	
SANITARY SEWER SYSTEM		
Service Line Size	4 Inches	
Drainage Design Criteria **(SCPC Tables 709.1 and 709.2)**	734 Fixture Units	
Maximum Flow Rate	20 GPD per person using DHEC Reg 61-67, Appendix A	
Slope (SCPC Table 704.1)	1/8 Inches/Ft	

SUMMARY OF FIXTURES (SCPC SECTION 403 & 403.1)

Water Closets	Male - Required	28
	Male WC - Provided	15
	Male Urinal - Provided	16
	Female - Required	28
	Female - Provided	30
Lavatories	Male - Required	27
	Male - Provided	30
	Female - Required	27
	Female - Provided	30
Showers	Male - Provided	1 SHOWER PROVIDED IN NURSE CLINIC
	Female - Provided	
Drinking Fountains	Required	27
	Provided	28
Family or Assisted-Use Toilet	Required	0
	Provided	3
Service Sink	Required	2
	Provided	3
Others (list)	Required	
	Provided	

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Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION

GENERAL INFORMATION			
Building Location	Duncan, South Carolina		
Climate Zone	3a		
Outdoor Design Temperature	Summer	95 deg F DB	
		74 deg F WB	
	Winter	12 deg F DB	
		11 deg F WB	
Indoor Design Temperature	Summer	74 deg F DB	
		50 % RH	
	Winter	000 deg F DB	
		30 % RH	
OUTSIDE AIR			
Occupied Minimum Outside Air	Approx. 15CFM OA, per ASHRAE 62.1		
CO_2 Demand Management	☐ no ☒ yes High Occ. Areas		
Supervised Control System	☐ no ☒ yes		

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT
Building is conditioned with a water source heat pumps system. The existing heat pump loop piping is connecting to the existing building's central plant. Each building control zone will have a water source heat pump unit. Classroom ventilation air is provided with a dedicated outdoor air system. Units in the administration area will handle their own ventilation air.

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ELECTRICAL INFORMATION

SERVICE TRANSFORMER	☒ By Utility	
	☐ By District	000 KVA Primary 000 Voltage/Phase
ELECTRICAL SERVICE INFORMATION		
Service Voltage / Phase	480/3 PHASE	4000 Amperes
Service Entrance Conductors Size	600	3 Qty per Phase
Total Connected Load		1183 KVA
Estimated Maximum Demand		1083 KVA
Available Fault Current in Symmetrical Amperes		N/A
Interrupting Capacity of Service Overcurrent Device		100K
Grounding electrode system components (NEC 250)		Cold water pipe, Building Steel, Ground Rods,Encased Concrete
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☐ no ☒ yes	100 KVA Primary 480/3 Voltage/Phase
	Fuel	Natural Gas
Exit / Emergency Lights Backup Power		☒ Integral Battery ☒ Generator
Fire Alarm System	☐ Manual ☒ Automatic	☒ Addressable ☐ Class A ☐ Class B
LIGHTNING PROTECTION PROVIDED		☒ no ☐ yes

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mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC

SHEET TITLE:
OSF F3 FORM NEW CONSTRUCTION CODE ANALYSIS

SHEET NO. LS100
PROJ. NO. 020420.00

Form F3 - Building Code Analysis

Date:

SUBMITTAL:	☐ Schematic	☒ Design Development	☐ Construction Document

SC CODE EDITION:	2018	ICC CODE EDITION:	2018	ICC A117.1 EDITION:	2017	OSF GUIDE EDITION:	2020
OTHER CODES/STANDARDS & EDITIONS:							

PROJECT DESCRIPTION: Addition of a 3-story building portion (Phase 2) to the existing Byrnes High School in Duncan, South Carolina. Existing building areas will be demolished prior to the construction of the Phase 2 addition. This will be a construction management at risk project delivery.

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	Building Code	FIRE AREA 1	FIRE AREA 2	EXISTING FIRE AREA 3	EXISTING FIRE AREA 6	
	-	☒ SCBC ☐ SCEBC	☒ SCBC ☐ SCEBC	☐ SCBC ☒ SCEBC	☐ SCBC ☒ SCEBC	
CONSTRUCTION CLASSIFICATION TYPE	**Section 602**	IIB	IIB	IIB	IIB	
OCCUPANCY GROUP (indicate all)	**Section 302**	B, E, S1	B, E, S1	E	E	
MOST RESTRICTIVE OCCUPANCY GROUP	**Tables 504.3 504.4 & 506.2**	E	E	E	E	
Does building require Incidental Use Area Separation?	**Tables 509**	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	
Does building have Accessory Occupancy (ies)?	**Section 508.2**	☐ YES ☒ NO	☐ YES ☒ NO	☒ YES ☐ NO	☒ YES ☐ NO	
What is the aggregate square footage of the accessory occupancy (ies)?	**Section 508.2**	**XX,XXX SF**	**XX,XXX SF**	**EXISTING**	**EXISTING**	
What percent of the story is the aggregate of the accessory occupancy (ies)?	**Section 508.2**	**0 %**	**%**	**%**	**%**	
Mixed Occupancy	**Section 508**	☒ YES ☐ NO ☒ Nonseparated ☐ Separated	☒ YES ☐ NO ☒ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated	

Version February 2021

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check only one Option and all items that apply under that Option.)	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF
	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:			
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (Check only one Option and all items that apply under that Option.)	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF

	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:		
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

SUMMARY - BUILDING DESIGN OCCUPANCY LOAD

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
1st FLOOR					
2nd FLOOR					
3rd FLOOR					
4th FLOOR					
TOTAL:	0	0	0	0	0

Note: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan.

ALLOWABLE BUILDING AREA

DESIGNATED AREAS OF BUILDING	AREA 1		AREA 2		AREA 3		AREA 4		AREA 5	
At = Tabular allowable area factor (NS, S1, S13R, or S as applicable) in accordance with IBC Table 506.2	A_t=	SF	At=	SF	At=	SF	At=	SF	At=	SF
Allowable Area Increase (Equations 5-1 through 5-5, as applicable)	☐ YES ☐ NO		☐ YES ☐ NO		☐ YES ☐ NO		☐ YES ☐ NO		☐ YES ☐ NO	
	L_n=	SF	Ln=	SF	Ln=	SF	Ln=	SF	Ln=	SF
IBC Section 506.3.2 Equations 5-4 where:	w_n=	SF	wn=	SF	wn=	SF	wn=	SF	wn=	SF
$W = (L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 + \ldots) / F$ W = Width of public way or open space Ln = Length of a portion of the exterior perimeter wall. wn = Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall.	W=	SF	W=	SF	W=	SF	W=	SF	W=	SF
F = Building perimeter that fronts on a public way or open space having a width of 20 feet or more.	F=	SF	F=	SF	F=	SF	F=	SF	F=	SF
IBC Section 506.3.3 Equation 5-5 where: $I_f = [F/P - 0.25]\, W/30$	P=	SF	P=	SF	P=	SF	P=	SF	P=	SF
I_f = Area factor increase factor due to frontage F Building perimeter that fronts on a public way or open space having a width of 20 feet or more. P Perimeter of entire building (feet) W Width of public way or open space in accordance with Equation 5-4	I_f=	SF	I_f=	SF	I_f=	SF	I_f=	SF	I_f=	SF

Allowable building area per story in square feet as calculated by Equation 5-1 through 5-3. (Indicated equation used.)	N_s=	SF	N_s=	SF	N_s=	SF	N_s=	SF	N_s=	SF
☐ IBC 506.2.1 Equation 5-1: $A_a = At + (N_S \times I_f)$	S_a=	SF	S_a=	SF	S_a=	SF	S_a=	SF	S_a=	SF
☐ IBC 506.2.3, Equation 5-2: $A_a = [A_t + (N_S \times I_f)] \times S_a$	A_a=	SF	A_a=	SF	A_a=	SF	A_a=	SF	A_a=	SF
☐ IBC 506.2.4, Equation 5-3: $A_a = [A_t + (N_s \times I_f)]$ N_S Tabular allowable area factor in accordance with Table 506.2 for a nonsprinklered building (regardless of whether the building is sprinklered) S_a = Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).										
MAXIMUM AREA PER STORY		SF		SF		SF		SF		SF
AREA AS DESIGNED PER STORY (Repeat for each story)		SF		SF		SF		SF		SF

BUILDING HEIGHT

DESIGNATED AREAS OF BUILDING	Building Code	AREA 1		AREA 2		AREA 3	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	**Table 504.3**	-	-	-	-	-	-
In Stories	**Table 504.4**	-	-	-	-	-	-

Note: Allowable Building Height & Number of Stories Above Grade Plane

BUILDING HEIGHT

DESIGNATED AREAS OF BUILDING	Building Code	AREA 4		AREA 5	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	**Table 504.3**	-	-	-	-
In Stories	**Table 504.4**	-	-	-	-

Note: Allowable Building Height & Number of Stories Above Grade Plane

GENERAL FIRE PROTECTION REQUIREMENTS

DESIGNATED AREAS OF BUILDING	Building Code	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5
SEPARATIONS						
Fire Wall Required	**Section 706**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Barrier Required	**Section 707**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Partition Required	**Section 708**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Barriers Required	**Section 709**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Partitions Required	**Section 710**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fireblocking	**Section 718.2**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Draftstopping	**Section 718.3 & 718.4**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	**Section 509.4**	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO
ALARM & DETECTION						
Fire Alarm and Detection System Fire Alarm Mass Notification Emergency voice/alarm comm.	**SCFC Section 907**	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO
Emergency Alarm System Required	**SCFC Section 908**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
SUPPRESSION						
Automatic Sprinkler System Provided Required	**SCFC Section 903**	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO

Alternative Automatic Fire Extinguishing Kitchen Hoods Other	**SCFC Section 904**	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO
Standpipes Required	**SCFC Section 905**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Portable extinguishers required General Building Kitchen Labs	**SCFC Section 906**	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO

OTHER FIRE AND LIFE SAFETY FEATURES

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Smoke Control System	**Section 909**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke & Heat Removal Required	**SCFC 910**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Department Connections	Section 912	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Carbon Monoxide Detection	Section 915	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Gas Detection Systems	Section 916	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Emergency Responder Radio Coverage	Section 918	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Apparatus Access and Water Line	**SCFC 503 & 507**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
2-way Communication Required	**Section 1009.8**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Area of Refuge *(e.g. Separation, Two-Way Communication, and Instruction)*	**Sections 1009.6 1009.9, 1009.10 & 1009.11**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Exterior Area for Assisted Rescue *(e.g. Separation, Openness, and Instruction)*	**Sections 1009.7, 1009.9, 1009.10 & 1009.11**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Safe Dispersal Area	**Section 1028.5**	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Primary Structural Frame	As Required, Hrs	Table 601	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Bearing Walls, Exterior	As Required, Hrs	Table 601	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Bearing Walls, Interior	As Required, Hrs	Table 601	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Nonbearing Walls, and Partitions, Interior	As Required, Hrs	Table 601	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Nonbearing Walls and Partitions, Exterior	As Required, Hrs	**Table 602**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Floor Construction and associated secondary members	As Required, Hrs	**Table 601**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Roof Construction and associated secondary members	As Required, Hrs	**Table 601**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Fire Walls	As Required, Hrs	**Table 706**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Fire Barriers	As Required, Hrs	**Table 707**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Fire Partitions	As Required, Hrs	**Table 708**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Smoke Barriers	As Required, Hrs	**Table 709**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Smoke Partitions	As Required, Hrs	**Table 710**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Horizontal Assemblies	As Required, Hrs	**Table 711**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Shaft Enclosures	As Required, Hrs	**Table 712 & 713**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Opening & Protective Listing by Category (fire shutters, doors, etc)	As Required, Hrs	**Table 716**	N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A
Others (as required by Designer)	As Required, Hrs		N/A	N/A	N/A	N/A	N/A
	As Designed, Hrs		N/A	N/A	N/A	N/A	N/A
	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A	N/A	N/A	N/A
	Wall / Partition Key Code		N/A	N/A	N/A	N/A	N/A

FLOOD HAZARD INFORMATION and FLOOD LOADS	
FLOOD HAZARD AREA	
Base Flood Elevation (NGVD or FIRM)	000 MSL
Design Floor Elevation IBC 1612.3 and ASCE 24	000 MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1) Dry flood proofing ASCE 24	000 MSL ☐ no ☐ yes
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor Flotation resistant (ASCE 24) Breakaway wall per ASCE 24	000 MSL ☐ no ☐ yes ☐ no ☐ yes

FIRE SERVICE INFORMATION		
Service Line Size		00 Inches
Fire Department Connection	Location	N/A
Backflow	Location	N/A
	Type	N/A
Fire Hydrant Flow Test	Date	MM/DD/YYYY
	Flow	000 GPM
	Residual	000 psi
	Static	000 psi

ENERGY INFORMATION		
INSULATION		
Roof	Cavity	00 R
	Continuous	00 R
Walls	Cavity	00 R
	Continuous	00 R
Underslab		
GLAZING (each type)		
Window to wall ratio	North	00 %
	East	00 %
	South	00 %
	West	00 %
Glass Type: N/A	U Factor	N/A
	SHG	N/A
	N/A	N/A

Summary of data from approved ASHRAE 90.1 compliance sheets.

Per IBC Chapter 16 and ASCE 7 - Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STRUCTURAL DESIGN INFORMATION, AREA

		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
OCCUPANCY CATEGORY (IBC Table 1604.5)		**Table 1604.5**					
LIVE LOAD FOR EACH OCCUPANCY TYPE	Floor Live Load, F_{ll}	**Figure 1608.2 or ASCE 7**	000 psf	000 psf	000 psf	000 psf	000 psf
	Roof Live Load, R_{ll}		000 psf	000 psf	000 psf	000 psf	000 psf
	Ground Snow Load, p_g		000 psf	000 psf	000 psf	000 psf	000 psf
MISCELLANEOUS LOADS BY SPECIAL USE AREA *(ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.,)*		**ASCE 7**	000 psf	000 psf	000 psf	000 psf	000 psf

SOILS & SITE	
SOILS INVESTIGATION REQUIRED? **(IBC 1803.2)**	☐ no ☐ yes
SOILS CLASSIFICATION	
Seismic Site Class **(SCBC Section 1613.3.2)**	N/A
Classes Soil of Materials (UCS System) **(SCBC 1803.5.1)**	N/A
Allowable Footing Bearing Pressure	000 psf
MINIMUM DESIGN SOIL BEARING LOAD **(SCBC Table 1806.2)**	000 psf
COMPACTION	
Subgrade **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	00 %
Base **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	00 %
Other **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	00 %
MINIMUM DESIGN SOIL LATERAL LOAD **(SCBC Table 1610.1)**	000 psf
FOOTINGS	
Undisturbed footings	☐ no ☐ yes
Compacted Fill Material **(SCBC Section 1804.6)**	☐ no ☐ yes
ELEVATIONS	
Elevation of Water Table	000 MSL
Elevation of lowest footing	000 MSL
Elevation of lowest floor or basement	000 MSL

STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	Analysis Procedure **(ASCE 7 or IBC 1609.6)**	N/A
	Basic Wind Speed, MPH **(3 sec gust IBC fig. 1609.3)**	V_{ult} = 000
	Exposure Category	N/A
	Wind Importance Factor **(ASCE 7 Table 1.5-2)**	I_w = 00
	Internal Pressure Coefficient **(ASCE 7)**	GC_{pi} = 00
	External Pressure Coefficient **(ASCE 7)**	GC_p = 00
SEISMIC LOADS/ Earthquake	Seismic Importance Factor **(ASCE 7)**	I = 00
	Site Class **(SCBC Section 1613.3.2)**	N/A
	Mapped Spectral Response Accelerations	S_s = 00 S_1 = 00
	Design Spectral Response Acceleration Parameters	S_{DS} = 00 S_{D1} = 00
	Seismic Use Group **(ASCE 7 and Seismic Occupancy Category IBC)**	N/A
	Seismic Design Category **SCBC Tables 1613.3.5(1) & 1613.3.5(2)**	N/A
	Basic Seismic Force Resisting System	N/A
	Design Base Shear	00 KIPS
	Seismic Response Coefficient(s) **ASCE 7**	C_s = 00
	Response Modification Factor(s) **ASCE 7**	R = 00
	Analysis Procedure	N/A

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 & 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or 1705 must be approved by OSF. Per SCBC Chapter 16 and ASCE 7 - This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 1

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 17

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

STATEMENT OF SPECIAL INSPECTIONS - CHAPTER 17

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

PLUMBING INFORMATION		
WATER SYSTEM		
Service Line Size	00 Inches	
Distribution Design Criteria **(SCPC Table 604.3)**	000 Fixture Units	
Maximum Flow Rate **(SCPC Table 604.4)**	000 GPM	
Backflow	Location	N/A
	Type	N/A
Test Pressure	000 psi	
SANITARY SEWER SYSTEM		
Service Line Size	00 Inches	
Drainage Design Criteria **(SCPC Tables 709.1 and 709.2)**	000 Fixture Units	
Maximum Flow Rate	000 GPM	
Slope (SCPC Table 704.1)	00 Inches/Ft	

SUMMARY OF FIXTURES (SCPC SECTION 403 & 403.1)		
Water Closets	Male - Required	00
	Male WC - Provided	00
	Male Urinal - Provided	00
	Female - Required	00
	Female - Provided	00
Lavatories	Male - Required	00
	Male - Provided	00
	Female - Required	00
	Female - Provided	00
Showers	Male - Provided	00
	Female - Provided	00
Drinking Fountains	Required	00
	Provided	00
Family or Assisted-Use Toilet	Required	00
	Provided	00
Service Sink	Required	00
	Provided	00
Others (list)	Required	00
	Provided	00

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION			
GENERAL INFORMATION			
Building Location	City, South Carolina		
Climate Zone	N/A		
Outdoor Design Temperature	Summer	000 deg F DB	
		000 deg F WB	
	Winter	000 deg F DB	
		000 deg F WB	
Indoor Design Temperature	Summer	000 deg F DB	
		00 % RH	
	Winter	000 deg F DB	
		00 % RH	
OUTSIDE AIR			
Occupied Minimum Outside Air	000 cfm per person		
CO_2 Demand Management	☐ no ☐ yes		
Supervised Control System	☐ no ☐ yes		
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT			
Briefly describe mechanical system: N/A			

ELECTRICAL INFORMATION		
SERVICE TRANSFORMER	☐ By Utility	
	☐ By District	000 KVA Primary
		000 Voltage/Phase
ELECTRICAL SERVICE INFORMATION		
Service Voltage / Phase		000 Amperes
Service Entrance Conductors Size		000 Qty per Phase
Total Connected Load		000 KVA
Estimated Maximum Demand		000 KVA
Available Fault Current in Symmetrical Amperes		N/A
Interrupting Capacity of Service Overcurrent Device		N/A
Grounding electrode system components (NEC 250)		N/A
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☐ no ☐ yes	000 KVA Primary
		000 Voltage/Phase
	Fuel	N/A
Exit / Emergency Lights Backup Power		☐ Integral Battery
		☐ Generator
Fire Alarm System	☐ Manual ☐ Automatic	☐ Addressable ☐ Class A ☐ Class B
LIGHTNING PROTECTION PROVIDED		☐ no ☐ yes

**mcmillan
pazdan
smith**
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

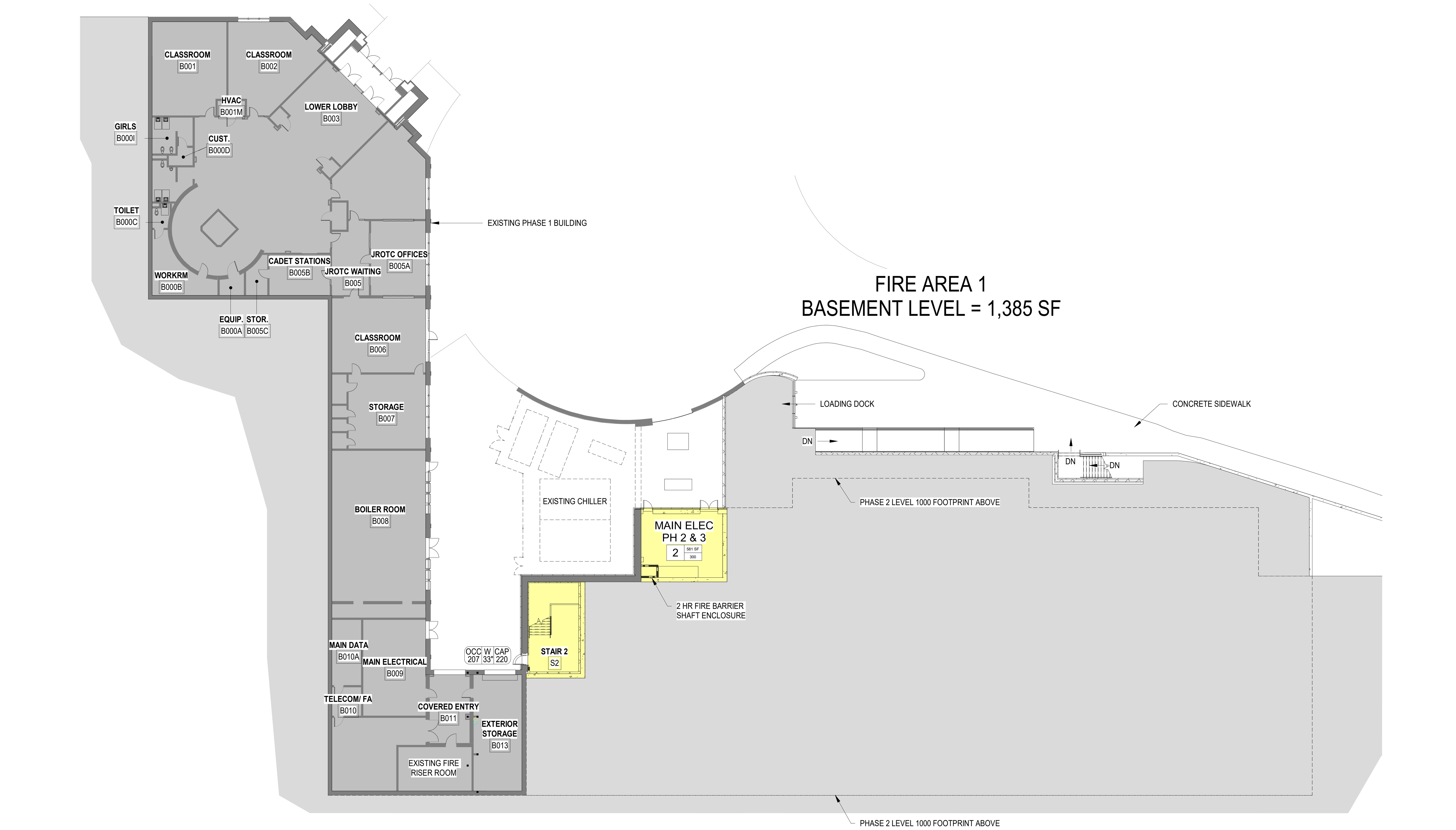
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC

SHEET TITLE:

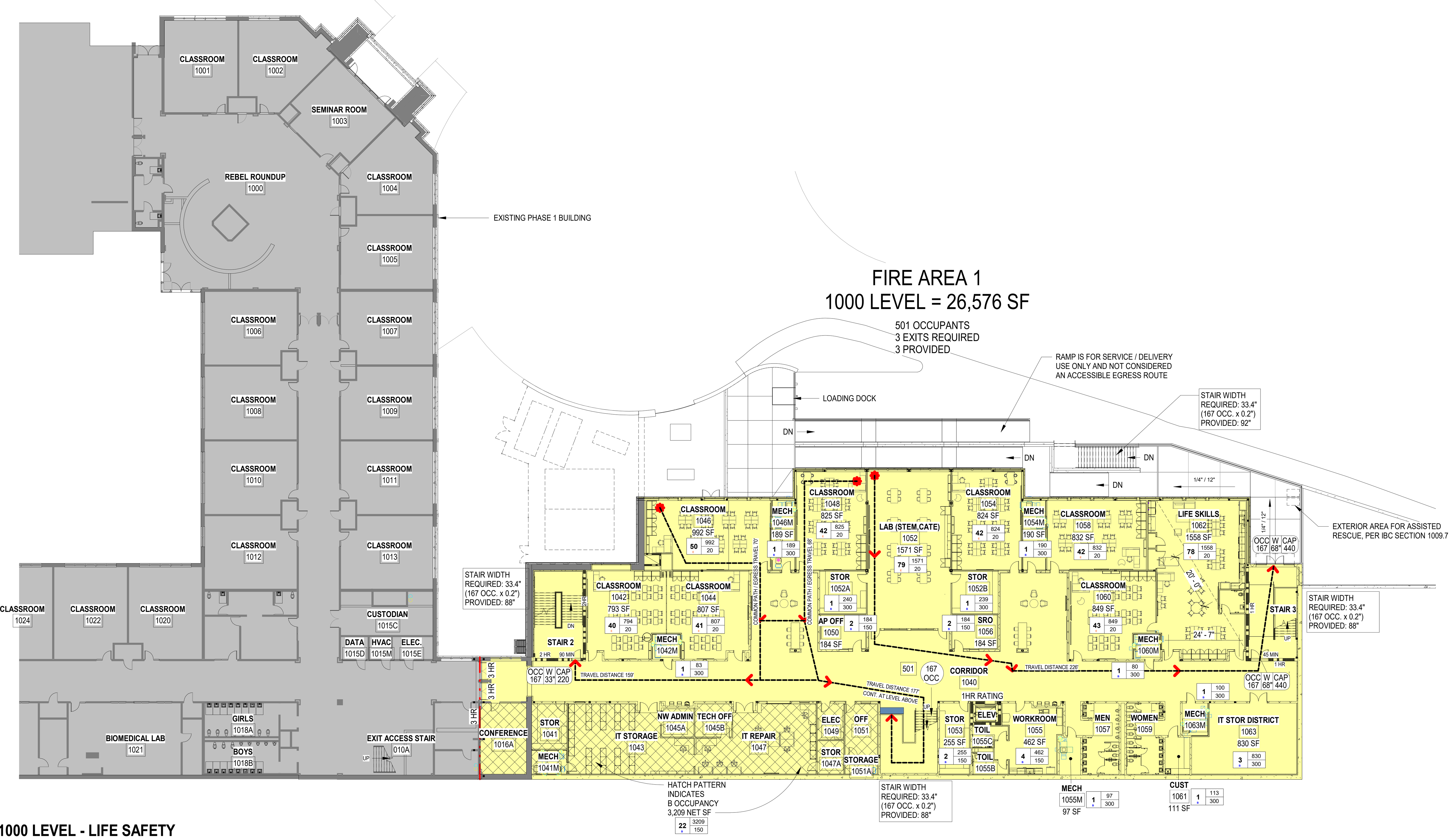
OSF F3 FORM
EXISTING BUILDING
CODE ANALYSIS

SHEET NO. PROJ. NO.
020420.00

LS101

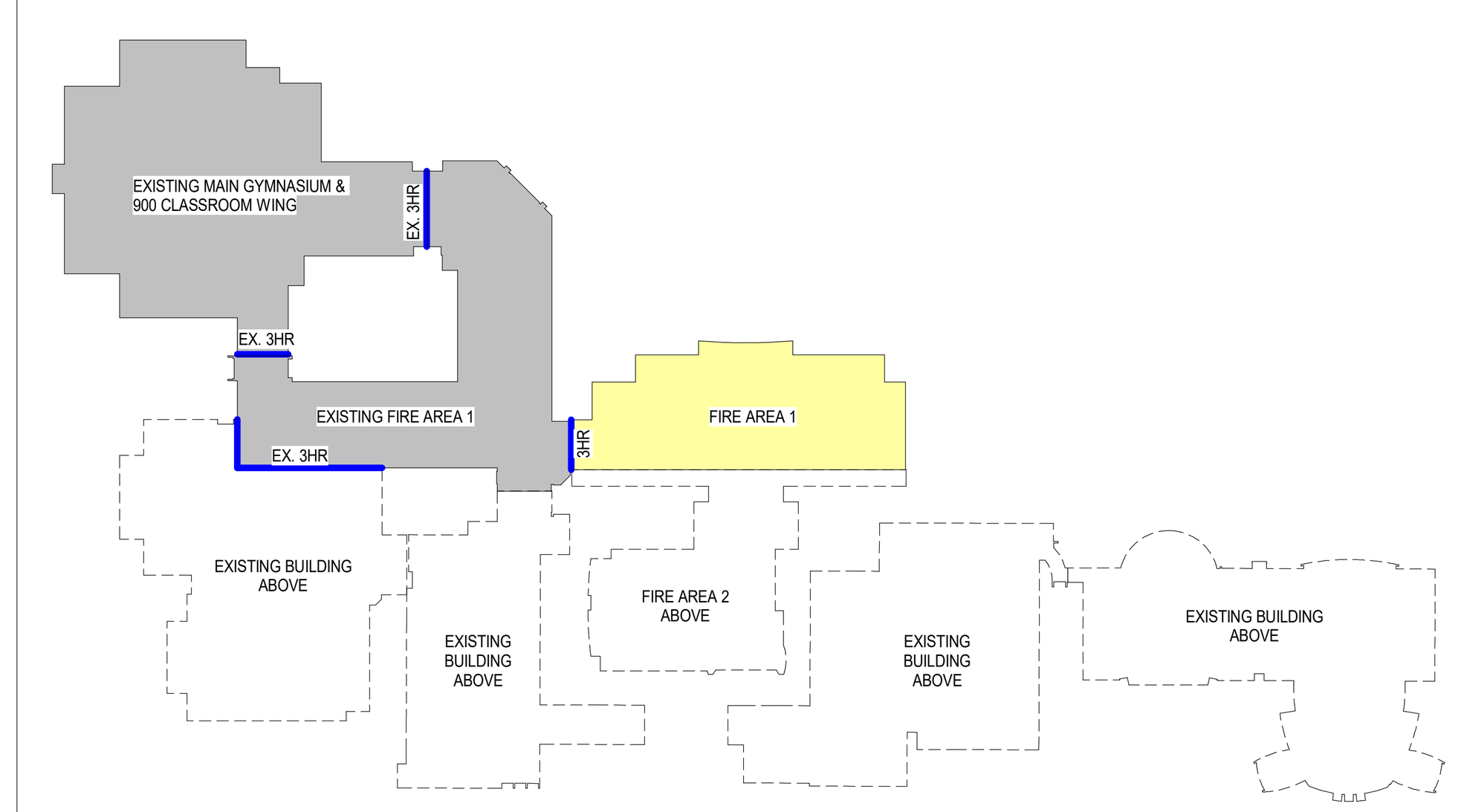


C1 LS102 **BASEMENT - LIFE SAFETY**
3/64" = 1'-0"



A1 LS102 **1000 LEVEL - LIFE SAFETY**
3/64" = 1'-0"

FIRE AREAS 1000 LEVEL



LIFE SAFETY LEGEND

FIRE RATED CONSTRUCTION NOTES:

1. SEE FLOOR PLAN(S) AND WALL TYPE SCHEDULE FOR WALL ASSEMBLY TYPES AND CONSTRUCTION
2. FIRE CAULK AROUND ALL ELECTRICAL CONDUIT PASSING THROUGH WALLS.
3. SEE MECHANICAL AND PLUMBING DRAWINGS FOR SPECIAL DETAILS WHERE DUCTWORK AND PIPING PASS THROUGH WALLS.

45 MIN. FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN. ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR THREE HOUR RATED DOOR & FRAME

SMOKE PARTITION (SMOKE TIGHT)
RATED - 1 HOUR
RATED - 2 HOUR
RATED - 3 HOUR
EGRESS PATH OF TRAVEL
FE BRACKET MOUNTED FIRE EXTINGUISHER
FEC RECESSED OR SEMI-RECESSED FIRE EXTINGUISHER CABINET
FEK BRACKET MOUNTED KITCHEN FIRE EXTINGUISHER
CEILING MOUNTED EXIT SIGN
F FIRE ALARM PULL (FAP) STATION
50 NUMBER OF OCCUPANTS TRAVELING IN A CERTAIN DIRECTION
ROOM NAME 150 SF — ROOM NAME; ROOM AREA IN SF
OCCUPANT LOAD
ROOM AREA IN SF
ROOM OCCUPANT LOAD/ SF PER IBC TABLE 1004.1.2
OCCUPANCY CLASSIFICATION PER IBC CHAPTER 3
OCC W CAP 62 68" 453 — EXIT WIDTH (IN INCHES); EXIT CAPACITY (# PERSONS EXIT ALLOWS); OCCUPANT LOAD USING EXIT (# PERSONS)

PLUMBING FIXTURE SUMMARY

BASEMENT AND 1000 LEVEL

OCCUPANCY: EDUCATIONAL - E			OCCUPANTS: 457			(229 MALE 229 FEMALE)	
Educational facilities	WATER CLOSETS M	WATER CLOSETS F	LAVATORIES M	LAVATORIES F	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
FIXTURES REQUIRED	4.6	4.6	4.6	4.6	–	4.6	1 Service Sink
OCCUPANCY: BUSINESS - B			**OCCUPANTS: 47**			**(24 MALE 24 FEMALE)**	
Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	WATER CLOSETS M	WATER CLOSETS F	LAVATORIES M	LAVATORIES F	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
FIXTURES REQUIRED	1.0	1.0	0.6	0.6	–	0.5	1 Service Sink
TOTAL FIXTURES REQ'D	6	6	6	6	0	5	1
FIXTURES PROVIDED	7	7	7	7	0	6	1

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

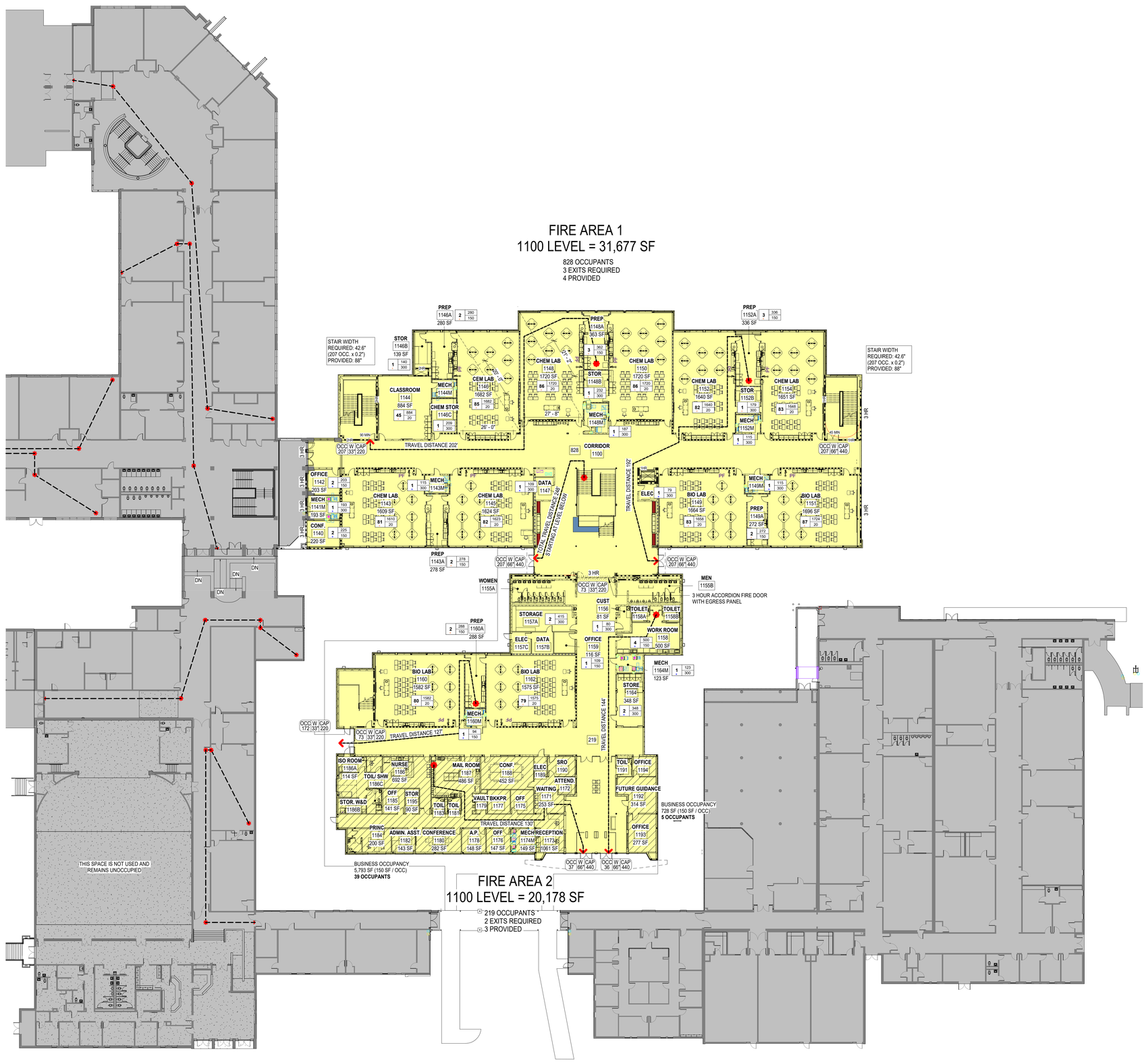
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: BD

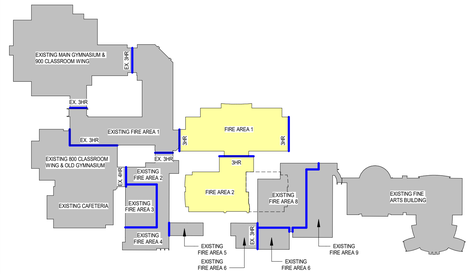
SHEET TITLE:
LIFE SAFETY PLANS - BASEMENT AND 1000 LEVEL

SHEET NO. LS102
PROJ. NO. 020420.00



A1 LS103 **1100 LEVEL (MAIN) - LIFE SAFETY**
3/64" = 1'-0"

FIRE AREAS 1100 LEVEL



LIFE SAFETY LEGEND

FIRE RATED CONSTRUCTION NOTES:

1. SEE FLOOR PLAN(S) AND WALL TYPE SCHEDULE FOR WALL ASSEMBLY TYPES AND CONSTRUCTION
2. FIRE CAULK AROUND ALL ELECTRICAL CONDUIT PASSING THROUGH WALLS.
3. SEE MECHANICAL AND PLUMBING DRAWINGS FOR SPECIAL DETAILS WHERE DUCTWORK AND PIPING PASS THROUGH WALLS.

45 MIN. FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN. ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR THREE HOUR RATED DOOR & FRAME

SMOKE PARTITION (SMOKE TIGHT)
RATED - 1 HOUR
RATED - 2 HOUR
RATED - 3 HOUR
EGRESS PATH OF TRAVEL
FE — BRACKET MOUNTED FIRE EXTINGUISHER
FEC — RECESSED OR SEMI-RECESSED FIRE EXTINGUISHER CABINET
FEK — BRACKET MOUNTED KITCHEN FIRE EXTINGUISHER
CEILING MOUNTED EXIT SIGN
F — FIRE ALARM PULL (FAP) STATION
50 — NUMBER OF OCCUPANTS TRAVELING IN A CERTAIN DIRECTION
ROOM NAME / 150 SF — ROOM NAME; ROOM AREA IN SF
4 / 150 / 150 — OCCUPANT LOAD; ROOM AREA IN SF; ROOM OCCUPANT LOAD/ SF PER IBC TABLE 1004.1.2; OCCUPANCY CLASSIFICATION PER IBC CHAPTER 3
OCC W CAP / 62 / 68 / 453 — EXIT WIDTH (IN INCHES); EXIT CAPACITY (# PERSONS EXIT ALLOWS); OCCUPANT LOAD USING EXIT (# PERSONS)

PLUMBING FIXTURE SUMMARY

1100 LEVEL: FIRE AREAS 1 & 2 (E)

OCCUPANCY: EDUCATIONAL - E	OCCUPANTS: 957					(479 MALE 479 FEMALE)	
Educational facilities	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
	M	F	M	F			
FIXTURES REQUIRED	9.6	9.6	9.6	9.6	–	9.6	1 Service Sink
FIXTURES PROVIDED	8	9	8	9	0	8	1

*NOTE: ADDITIONAL PLUMBING FIXTURES CAN BE FOUND ON FLOORS BELOW AND ABOVE THIS LEVEL (TO SATISFY NUMBER REQUIRED ON THIS FLOOR), WHERE THERE ARE ENOUGH SURPLUS FIXTURES TO ACCOUNT FOR THIS FLOOR'S NEEDS; AND THOSE FIXTURES ARE WITHIN THE 500 FEET MAXIMUM TRAVEL DISTANCE.

1100 LEVEL: FIRE AREAS 1 & 2 (B)

OCCUPANCY: BUSINESS - B	OCCUPANTS: 90					(45 MALE 45 FEMALE)	
Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER
	M	F	M	F			
FIXTURES REQUIRED	1.8	1.8	1.1	1.1	–	0.9	1 Service Sink
FIXTURES PROVIDED	2	2	2	2	0	2	1

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

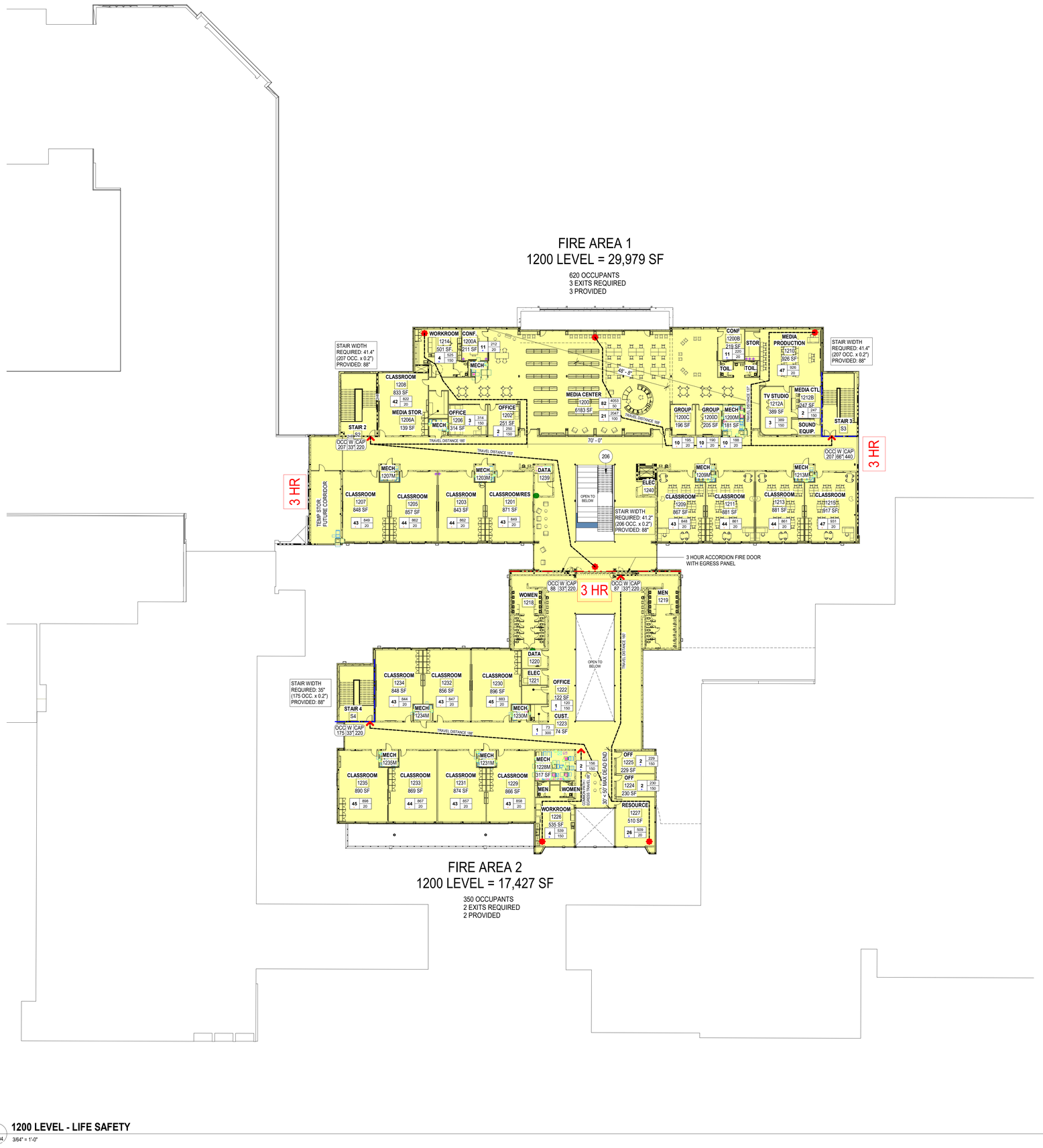
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: BD

SHEET TITLE:

LIFE SAFETY PLAN - 1100 LEVEL

SHEET NO. LS103

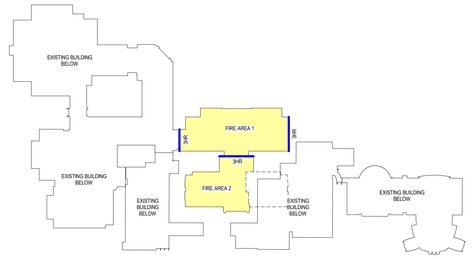
PROJ. NO. 020420.00



A1 / LS104 **1200 LEVEL - LIFE SAFETY**

3/64" = 1'-0"

FIRE AREAS 1000 LEVEL



LIFE SAFETY LEGEND

FIRE RATED CONSTRUCTION NOTES:

1. SEE FLOOR PLAN(S) AND WALL TYPE SCHEDULE FOR WALL ASSEMBLY TYPES AND CONSTRUCTION
2. FIRE CAULK AROUND ALL ELECTRICAL CONDUIT PASSING THROUGH WALLS.
3. SEE MECHANICAL AND PLUMBING DRAWINGS FOR SPECIAL DETAILS WHERE DUCTWORK AND PIPING PASS THROUGH WALLS.

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- EGRESS PATH OF TRAVEL
- FE — BRACKET MOUNTED FIRE EXTINGUISHER
- FEC — RECESSED OR SEMI-RECESSED FIRE EXTINGUISHER CABINET
- FEK — BRACKET MOUNTED KITCHEN FIRE EXTINGUISHER
- CEILING MOUNTED EXIT SIGN
- F — FIRE ALARM PULL (FAP) STATION
- 50 — NUMBER OF OCCUPANTS TRAVELING IN A CERTAIN DIRECTION
- ROOM NAME / 150 SF — ROOM NAME; ROOM AREA IN SF
- 1 / 150 / 150 — OCCUPANT LOAD; ROOM AREA IN SF; ROOM OCCUPANT LOAD/ SF PER IBC TABLE 1004.1.2; OCCUPANCY CLASSIFICATION PER IBC CHAPTER 3
- OCC W / CAP 62 / 68 / 453 — EXIT WIDTH (IN INCHES); EXIT CAPACITY (# PERSONS EXIT ALLOWS); OCCUPANT LOAD USING EXIT (# PERSONS)

PLUMBING FIXTURE SUMMARY

1200 LEVEL: FIRE AREAS 1 & 2 (E)

OCCUPANCY: EDUCATIONAL - E	OCCUPANTS: 779					(390 MALE	390 FEMALE)	
Educational facilities	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER	
	M	F	M	F			
FIXTURES REQUIRED	7.8	7.8	7.8	7.8	–	7.8	1 Service Sink	

1200 LEVEL: MEDIA CENTER

OCCUPANCY: ASSEMBLY - A-3	OCCUPANTS: 145					(73 MALE	73 FEMALE)	
Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER	
	M	F	M	F			
FIXTURES REQUIRED	0.6	1.1	0.4	0.4	–	0.3	1 Service Sink	

TOTAL FIXTURES REQ'D	9	9	9	9	0	9	1
FIXTURES PROVIDED	12	11	11	11	0	14	1

1200 LEVEL: FIRE AREAS 1 & 2 (B)

OCCUPANCY: BUSINESS - B	OCCUPANTS: 46					(23 MALE	23 FEMALE)	
Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	WATER CLOSETS		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS	OTHER	
	M	F	M	F			
FIXTURES REQUIRED	0.9	0.9	0.6	0.6	–	0.5	1 Service Sink	
FIXTURES PROVIDED	1	1	1	1	0	1	1	

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION

GMP SET 06/01/22

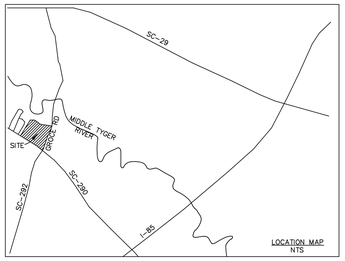
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: BD

SHEET TITLE:

LIFE SAFETY PLAN - 1200 LEVEL

SHEET NO. LS104

PROJ. NO. 020420.00



811 Know what's below. Call before you dig.

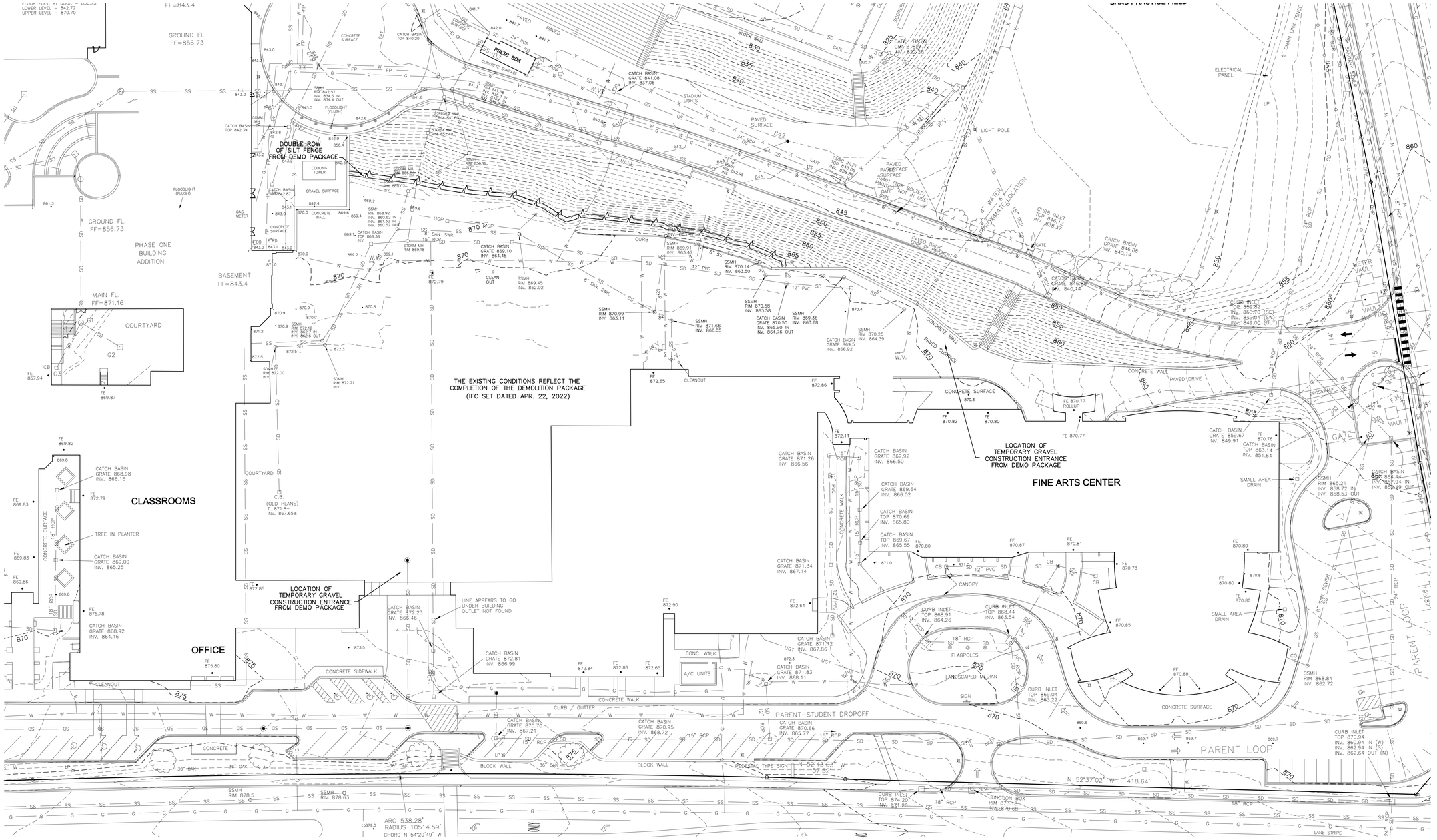
YOU ARE REQUIRED TO CALL AT LEAST 3 WORKING DAYS BEFORE YOU DIG http://www.sc811.com/

GENERAL NOTES:

1. THIS TRACT CONTAINS 43.9 AC.
   BLOCK MAP: 5-20-06-024.00
2. OWNER CONTACT: SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
   DR. GREG WOOD
   PO BOX 307
   DUNCAN, SC 29334
   PHONE: (864) 949-2350
3. CIVIL ENGINEER: BLACKWOOD ASSOCIATES INC.
   PO BOX 366
   SPARTANBURG, SC 29304
   PHONE: (864) 583-5432
4. SURVEY AND TOPOGRAPHIC INFORMATION PROVIDED BY
   LAVENDER, SMITH & ASSOCIATES, INC.
   LAND SURVEYORS & MAPPERS
   2900 EAST MAIN STREET
   SPARTANBURG, S.C. 29307

**SURVEY AUGMENTED USING PHASE ONE CONSTRUCTION DOCUMENTS

SCALE: 1" = 30'



mcmillan pazdan smith
ARCHITECTURE

BAI
BLACKWOOD ASSOCIATES INC.
CONSULTING ENGINEERS
PO BOX 366
SPARTANBURG, SC 29304
864-583-5432 <> FAX-583-5434

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	WAB
C	06/01/22	GMP SET	WAB

NOT FOR CONSTRUCTION FOR PRICING ONLY

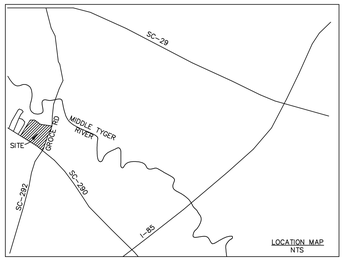
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB/ELO

SHEET TITLE:

EXISTING CONDITIONS

SHEET NO. CV1.1

PROJ. NO. 020420.00



EROSION CONTROL SEQUENCE OF EVENTS

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVED LETTER FROM SCDHEC BEFORE CALLING SPARTANBURG COUNTY AT 864-595-5320 TO SCHEDULE THIS MEETING.

1. RECEIVE NPDES COVERAGE FROM SCDHEC.
2. HAVE PRE-CONSTRUCTION MEETING ON SITE.
3. NOTIFY SPARTANBURG COUNTY ENGINEERING 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. INITIAL EROSION CONTROL (CV1.2)
   - A. CLEARING AND GRUBBING / DEMOLITION ONLY AS NECESSARY FOR INSTALLATION OF ADDITIONAL PERIMETER CONTROLS (EG. SILT FENCE AND CONSTRUCTION ENTRANCE)
   - B. INSTALL PERIMETER CONTROLS. REPAIR/REPLACE CONTROLS FORM DEMOLITION PACKAGE
   - C. INSTALL ADDITIONAL INLET PROTECTION FOR EXISTING CATCH BASINS.
5. GRADING (SEE CV3.1)
6. STABILIZATION (SEE CV3.1)

SITE CONSTRUCTION NOTES

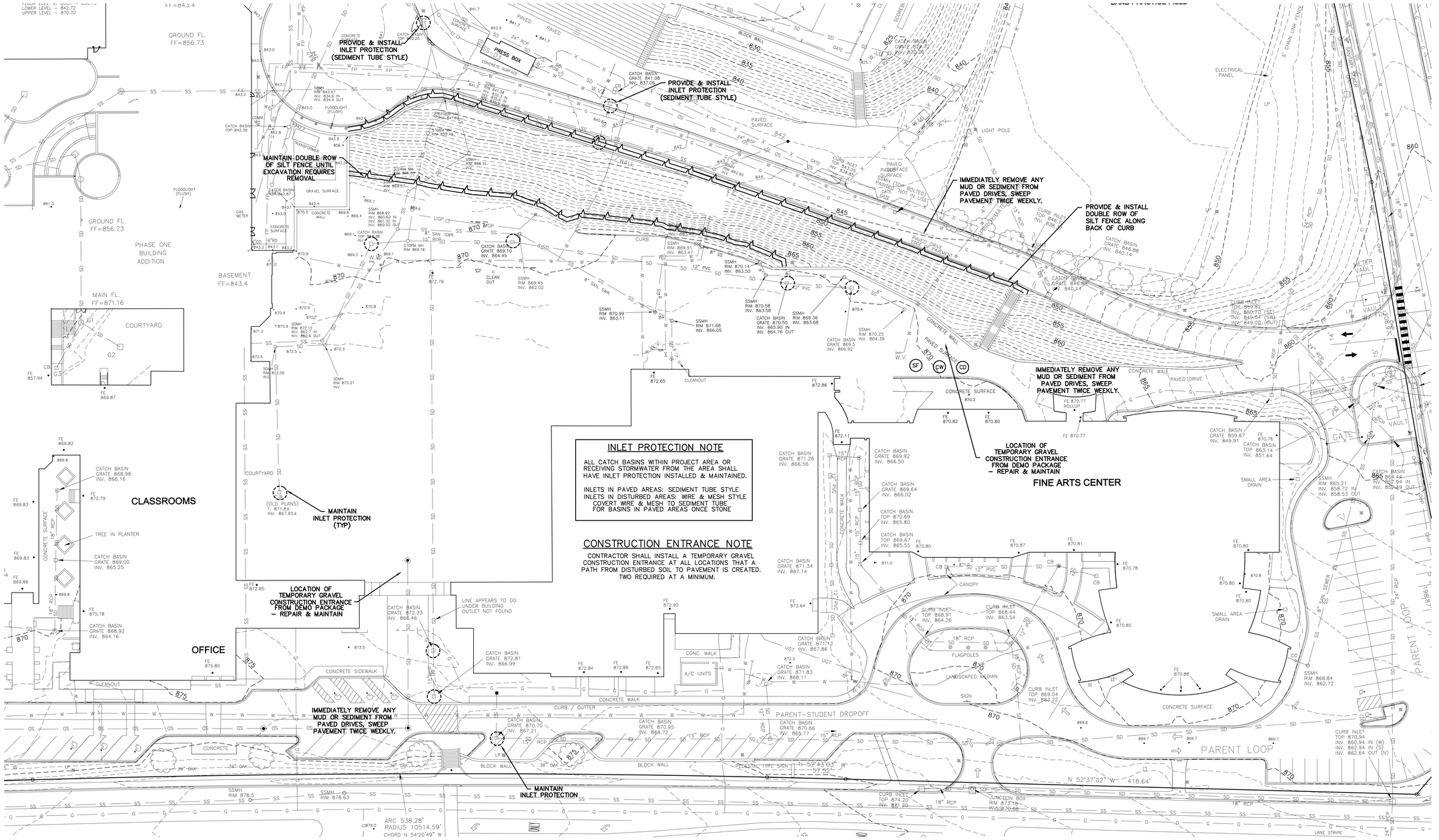
COORDINATE LOCATION OF FOLLOWING ITEMS WITH SPARTANBURG COUNTY INSPECTORS.

1. ALL LITTER, TRASH AND CONSTRUCTION DEBRIS SHALL BE COLLECTED, STORED AND DISPOSED OF IN ACCORDANCE WITH SCDHEC SOLID WASTE REGULATIONS. PROVIDE TEMPORARY 4' TALL HOGWIRE – 10' X10' SQUARE STORAGE AREA.
2. PROVIDE TEMPORARY SANITARY FACILITIES SHALL BE LOCATED ON A FLAT SURFACE AWAY FROM DRAINAGE FACILITIES, CATCH BASINS, WATERCOURSES AND TRAFFIC CIRCULATION. UPON DISCOVERY, ANY SPILLED MATERIAL SHALL BE CLEANED UP IMMEDIATELY. ALL COLLECTED MATERIAL, CONTAMINATED RAGS AND ABSORBENT MATERIALS SHALL BE DISPOSED OF APPROPRIATELY. LIME SHALL BE SPREAD ON THE CONTAMINATED AREA.
3. CEMENT WASTE AND WASHOUT SHALL NOT BE ALLOWED TO DISCHARGE TO STORM DRAINS, DETENTION PONDS OR WATER COURSES. BE COLLECTED IN A DEPRESSED BERMED AREA AND ALLOWED TO HARDEN. IT SHALL NOT BE ALLOWED TO DISCHARGE TO STORM DRAINS, STORM WATER DETENTION FACILITIES OR WATERCOURSES. PROVIDE 10' DIAMETER – 8" MULCH TUBE TO CONTAIN CONCRETE WASHOUT

EROSION CONTROL LEGEND

- SILT FENCE
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
- INLET PROTECTION
- LIMITS OF DISTURBANCE
- (CW) PROVIDE CONCRETE WASHDOWN
- (SF) PROVIDE SANITARY FACILITY
- (CD) PROVIDE CONST. DEBRIS ENCLOSURE

SCALE: 1" = 30'



INLET PROTECTION NOTE

ALL CATCH BASINS WITHIN PROJECT AREA OR RECEIVING STORMWATER FROM THE AREA SHALL HAVE INLET PROTECTION INSTALLED & MAINTAINED.

INLETS IN PAVED AREAS: SEDIMENT TUBE STYLE
INLETS IN DISTURBED AREAS: WIRE & MESH STYLE COVERT WIRE & MESH TO SEDIMENT TUBE FOR BASINS IN PAVED AREAS ONCE STONE

CONSTRUCTION ENTRANCE NOTE

CONTRACTOR SHALL INSTALL A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AT ALL LOCATIONS THAT A PATH FROM DISTURBED SOIL TO PAVEMENT IS CREATED. TWO REQUIRED AT A MINIMUM.

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	WAB
C	06/01/22	GMP SET	WAB

NOT FOR CONSTRUCTION FOR PRICING ONLY

PRINCIPAL IN CHARGE:	WAB
PROJECT ENGINEER:	WAB
DRAWN BY:	WAB/ELO

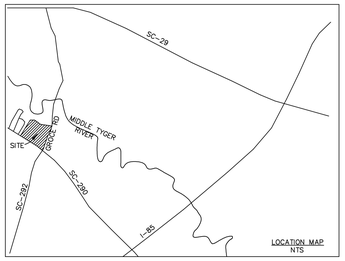
SHEET TITLE:

SITE PREPARATION PLAN

SHEET NO. CV1.2

PROJ. NO. 020420.00

2128 052722



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YOU ARE REQUIRED TO CALL AT LEAST 3 WORKING DAYS BEFORE YOU DIG http://www.call811.com/

DEMOLITION NOTE

EXISTING ITEMS SHOWN IN BOLD
SHALL BE DEMOLISHED AND REMOVED

CONFIRM ALL DEMOLITION WITH SITE PLAN

SAW CUTTING FOR DEMOLITION

SAW CUT SHARP CLEAN EDGES ALONG ALL PAVEMENTS, SIDEWALKS, AND CURBS PRIOR TO DEMOLITION.

SCALE: 1" = 30'

DISCONNECT LINE ON EXTERIOR OF EXISTING MANHOLE AFTER SANITARY SEWER REROUTED

DEMOLISH & REMOVE PORTION OF RETAINING WALL (SEE ARCHITECTURAL & STRUCTURAL)

DEMOLISH & REMOVE CURB AND GUTTER

TAP 4" WATER LINE RECONNECT STADIUM LINE

DEMOLISH & REMOVE SANITARY SEWER (PORTION)

DEMOLISH & REMOVE CONCRETE SIDEWALK AND WALL

DEMOLISH & REMOVE CURB AND GUTTER

DEMOLISH & REMOVE WATER LINES AFTER PROPERLY CAPPING ACTIVE PORTION

DEMOLISH & REMOVE CURB AND WALL DURING EXCAVATIONS

REMOVE LIGHT POLES FROM CONSTRUCTION AREA

DEMOLISH & REMOVE SANITARY SEWER (PORTION)

DEMOLISH & REMOVE STORM DRAIN SYSTEM (PORTION)

REMOVE ALL UTILITY LINES FROM UNDERNEATH NEW BUILDING PADS. CAP & REMOVE ABANDONED LINES. COORDINATE RELOCATION OF ACTIVE LINES WITH ENGINEER.

GC TO DETERMINE IF LINE STILL SERVES OLD BUILDING AFTER DEMOLITION PACKAGE COORDINATE WITH ENGINEER

DEMOLISH & REMOVE STORM DRAIN SYSTEM (PORTION)

LINE APPEARS TO GO UNDER BUILDING OUTLET NOT FOUND

CLASSROOMS

OFFICE

FINE ARTS CENTER

PARENT-STUDENT DROPOFF

PARENT LOOP

PHASE ONE BUILDING ADDITION

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	WAB

NOT FOR CONSTRUCTION FOR PRICING ONLY

PRINCIPAL IN CHARGE:	WAB
PROJECT ENGINEER:	WAB
DRAWN BY:	WAB/ELO

SHEET TITLE:

SITE DEMOLITION PLAN

SHEET NO. CV1.3

PROJ. NO. 020420.00

2128 052722

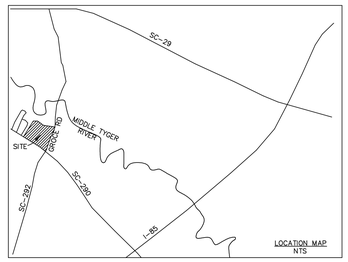
SITE SPECIFICATIONS & NOTES

1. CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATION. ADVISE ENGINEER IMMEDIATELY OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES SHALL BE WITH CAUTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION WHICH AFFECTS NEW CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION AND/OR RELOCATION AS NECESSARY AT CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL VERIFY ALL WORK PRIOR TO CONSTRUCTION, DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DISCONTINUE WORK IN ALL AFFECTED AREAS UNTIL RESOLVED BY ENGINEER.
3. EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. THE CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY-PNEUMATIC EQUIPMENT. ALL SOFT SPOTS SHALL BE UNDERCUT AND RECOMPACTED WITH SUITABLE STRUCTURAL FILL MATERIAL. ALL FILL COMPACTION SHALL BE 95% OF MAXIMUM PER ASTM D-698 (STANDARD PROCTOR). ALL MATERIAL WITHIN 18 INCHES OF PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 98% OF MAXIMUM. FILL MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, DEBRIS OR ROCKS. WHERE FILL IS TO BE PLACED, ALL EXISTING VEGETATION, ROOTS AND OTHER ORGANIC MATTER DOWN TO 12 INCHES BELOW EXISTING GRADE SHALL BE STRIPPED AND DISPOSED OF AS DIRECTED. FILL SHALL BE PLACED IN SUCCESSIVE LAYERS OF NOT MORE THAN 8 INCHES LOOSE THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.
4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS INCLUDING PAVEMENT, CONCRETE, AND UNSUITABLE MATERIAL FROM THE SITE. ALL AREAS UNDER EXISTING PAVEMENT SHALL BE SCARIFIED BEFORE PLACING STRUCTURAL FILL MATERIAL.
5. CATCH BASINS SHALL BE IN ACCORDANCE WITH CURRENT SC DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SCDOT STANDARD DRAWINGS FOR ROAD CONSTRUCTION.
6. STORM SEWER SHALL BE LAID ON A MINIMUM TYPE "C" BEDDING FOR DEPTHS UP TO 21', FOR DEPTHS GREATER THAN 21' USE TYPE "B" BEDDING. PLACE BELL OR BED GROOVE END UP GRADE WITH THE SPIGOT OR TONGUE FULLY INSERTED. EACH JOINT SHALL BE CHECKED FOR ALIGNMENT AND GRADE AS THE WORK PROCEEDS. APPROVED BACKFILL MATERIAL SHALL BE PLACED CAREFULLY ALONG THE PIPE AND COMPACTED UNDER HAUNCHES. MATERIAL SHALL BE BROUGHT UP EVENLY IN LAYERS ON BOTH SIDES OF THE PIPE AND TO ONE FOOT ABOVE THE TOP OF THE PIPE. MATERIAL SHALL BE PLACED IN A MANNER SO AS NOT TO DISPLACE OR DAMAGE THE INSTALLED PIPE. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS AS SPECIFIED.
7. REINFORCED CONCRETE PIPE (RCP) SHALL BE:
   CLASS III – DEPTHS 0'–14' CLASS "C" BEDDING
   CLASS IV – DEPTHS 14.1'–21' CLASS "C" BEDDING.
   ALL RCP SHALL HAVE BUTYL RUBBER GASKET SEALANT UNLESS OTHERWISE SPECIFIED. JOINTS AND FITTINGS / ACCESSORIES SHALL BE COMPATIBLE WITH PIPE. SEE BEDDING DETAILS.
8. SANITARY SEWER LINES SHALL BE SDR 35 PVC WITH GRAVEL TO THE SPRING LINE. SANITARY SEWER UNDER STORM SEWER SHALL BE CLASS 50 DIP.
9. WATER LINES SHALL BE: IPS DR13.5 HDPE WITH BUTT FUSION WELD TYPE JOINTS (PRESSURE CLASS 350 DIP FOR 4" AND LARGER)

   WATER LINES SHALL HAVE 3.5 FT. MINIMUM COVER. ALL WATER LINES USED FOR FIRE PROTECTION SUPPLY SHALL MEET NFPA 24. HDPE LINES SHALL HAVE TRACER WIRE INSTALLED ON PIPE.
10. ASPHALT PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND THE SOUTH CAROLINA D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED STRIPING AND SIGNAGE FOR WORK ON SITE AND S.C.D.O.T. R.O.W. ALL SITE STRIPING TO COMPLY WITH SCDOT STANDARD PAINT REQUIREMENTS. THERMOPLASTIC PAINT REQUIRED IN SCDOT RIGHT OF WAY.
11. CONCRETE SHALL BE 4,000 PSI CONCRETE MINIMUM
    STEEL REINFORCEMENT SHALL BE ASTM A615, GRADE 60.

GENERAL SITE NOTES

1. CONTRACTOR SHALL IDENTIFY THE LOCATION AND ELEVATIONS OF ALL UTILITIES ON SITE BEFORE CONSTRUCTION.
2. ANY DISCREPANCIES FROM THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.



SANITARY SEWER TESTING NOTES

GRAVITY SANITARY SEWER

GRAVITY SEWER LINES SHALL BE LAMPED AND ALL PIPES SHALL SHOW A TRUE LINE BETWEEN MANHOLES WITHOUT DEFECTS IN CONDITIONS, GRADE, OR ALIGNMENT. GRAVITY SEWER LINES COMPOSED OF PVC SHALL BE TESTED FOR DEFLECTION USING A MANDREL. THE DEFLECTION TEST SHALL OCCUR AT THE FINAL INSPECTION, A MINIMUM OF 30 DAYS AFTER COMPLETION OF BACKFILL. PRIOR TO TESTING, CLEAN AND FLUSH LINE OF DIRT AND FOREIGN MATERIAL. THE MANDREL SHALL BE PLACED IN THE PIPELINE AND MANUALLY PULLED, USING A TOW CABLE OR ROPE FROM MANHOLE TO MANHOLE. THE MANDREL SHOULD HAVE A TOW LINE ON EACH END TO FACILITATE REMOVAL IF AN OBSTRUCTION OCCURS. IF THE MANDREL STOPS AND APPEARS THAT IT WILL NOT MOVE FORWARD, RECORD THE DISTANCE BETWEEN MANHOLES AND REMOVE. CONTRACTOR SHALL MAKE REPAIRS AS DIRECTED BY THE ENGINEER. GRAVITY SEWER LINES SHALL BE AIR TESTED. LINES NOT PASSING THE TEST SHALL BE REPAIRED AND RETESTED AS REQUIRED BY THE ENGINEER. CONTRACTOR SHALL FURNISH ALL MATERIALS AND TESTING EQUIPMENT TO PERFORM THE AIR TESTING OF THE SEWER LINE.PRESSURE TESTING SHALL BE PERFORMED AT A TEST PRESSURE OF 4 PSI USING A MONITORING GAUGE (0 TO 5 PSI WITH MINIMUM DIVISIONS OF 0.10 PSI OR APPROVED BY THE INSPECTOR).

SANITARY SEWER MANHOLES

ALL MANHOLES SHALL BE SUBJECT TO A VACUUM TEST. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT AND LABOR NEEDED FOR CONDUCTING THE TESTS. ALL MANHOLES TO BE TESTED SHALL HAVE PIPES ENTERING AND LEAVING THE MANHOLE PLUGGED. THE MANHOLE SHALL HAVE A VACUUM DRAWN OF 10 INCHES OF MERCURY. THE TEST SHALL PASS IF THE VACUUM REMAINS AT 10 INCHES OR DROPS TO 9 INCHES OF MERCURY IN A TIME GREATER THAN ONE MINUTE. THE CONTRACTOR SHALL LOCATE AND REPAIR THE LEAK(S) FOR FAILED MANHOLES.

SANITARY SEWER SCHEDULE

MANHOLE SCHEDULE

MANHOLE	TOP	INVERT IN	INVERT OUT
SS7	871.7±	862.70	862.50
SS6	871.7±	862.15	861.95
SS5	870.7±	861.40	861.20
SS4	870.7±	860.85	860.65
SS3	870.7±	860.45	852.20
SS2	854.7±	850.50	838.70
SS1	842.5±	838.00	837.5±

PIPE SCHEDULE

FROM–TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
SS7–SS6	63.0	8 DIP	0.56
SS6–SS5	109.7	8 DIP	0.50
SS5–SS4	62.3	8 DIP	0.56
SS4–SS3	38.9	8 DIP	0.51
SS3–SS2	107.6	8 DIP	1.58
SS2–SS1	31.6	8 DIP	2.22
SS2 BUILT ON EXISTING LINE			

SS2 & SS3 SHALL BE A 5 FT DIAMETER, INSIDE DROP MANHOLE
LINE SS3–SS2 & SS6–SS5 SHALL HAVE MECHANICALLY RESTRAINED JOINTS (MEGALUGS)
SS5 & SS6 SHALL BE 5 FT DIAMETER, INSIDE DROP MANHOLE
SS5 SHALL HAVE TWO OUTSIDE DROP CONNECTIONS FOR PLUMBING

AREAS AROUND MANHOLES SHALL BE GRADED FOR A SMOOTH TRANSITION WITH TOPS AND ADJACENT GRADES FLUSH.

ALL MANHOLE RING AND COVERS SHALL BE ADJUSTED TO MATCH FINISHED GRADES. RINGS SHALL BE FLUSH WITH ADJACENT GRADE ELEVATIONS.

WATER DISTRIBUTION NOTES

(DOMESTIC WATER)

ALL WATER LINES SHALL BE: PRESSURE CLASS 350 (4" & LARGER)
IPS HDPE DR13.5 (3" & SMALLER)

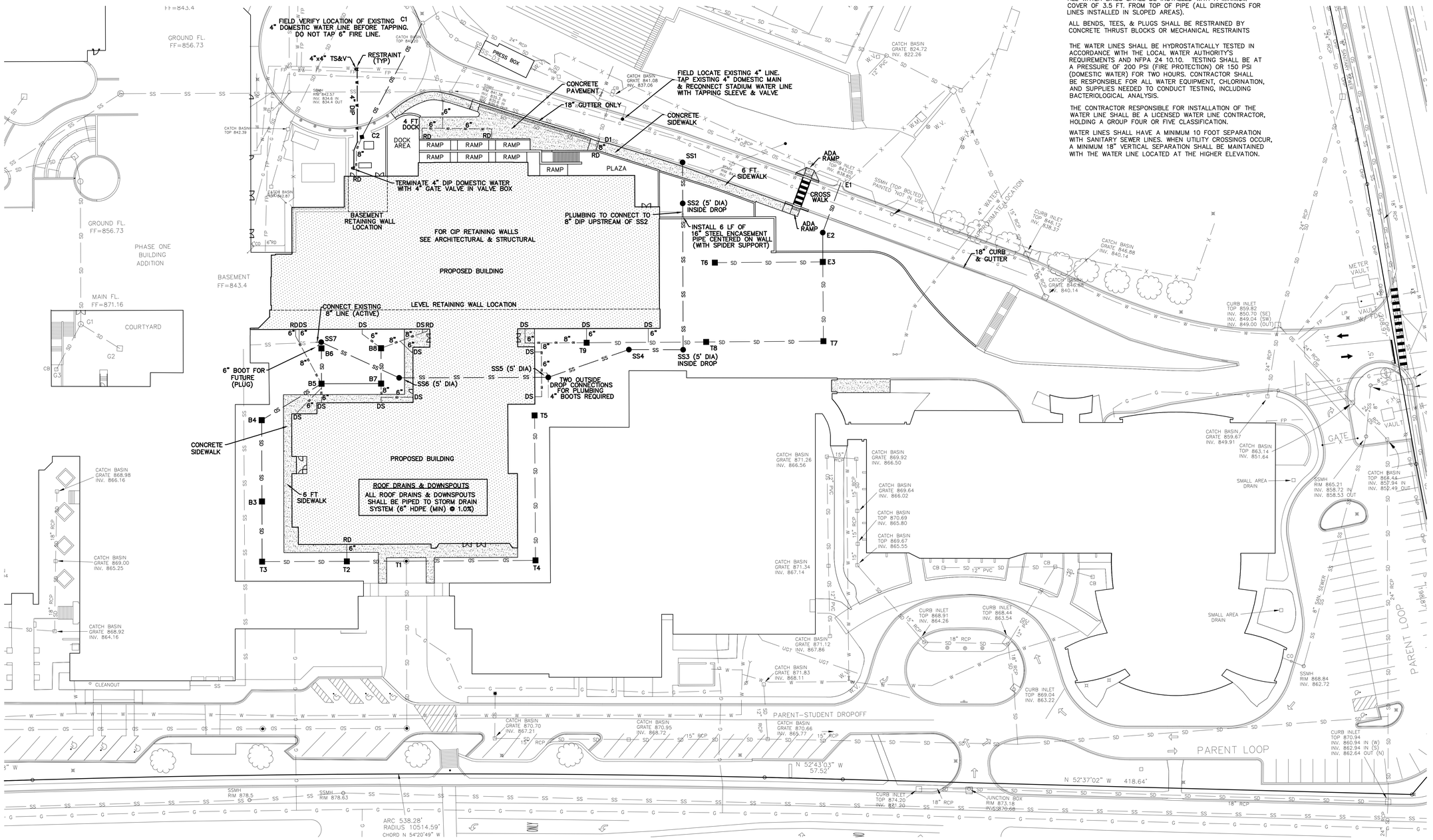
ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 3.5 FT. FROM TOP OF PIPE (ALL DIRECTIONS FOR LINES INSTALLED IN SLOPED AREAS).

ALL BENDS, TEES, & PLUGS SHALL BE RESTRAINED BY CONCRETE THRUST BLOCKS OR MECHANICAL RESTRAINTS

THE WATER LINES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE LOCAL WATER AUTHORITY'S REQUIREMENTS AND NFPA 24 10.10. TESTING SHALL BE AT A PRESSURE OF 200 PSI (FIRE PROTECTION) OR 150 PSI (DOMESTIC WATER) FOR TWO HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER EQUIPMENT, CHLORINATION, AND SUPPLIES NEEDED TO CONDUCT TESTING, INCLUDING BACTERIOLOGICAL ANALYSIS.

THE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF THE WATER LINE SHALL BE A LICENSED WATER LINE CONTRACTOR, HOLDING A GROUP FOUR OR FIVE CLASSIFICATION.

WATER LINES SHALL HAVE A MINIMUM 10 FOOT SEPARATION WITH SANITARY SEWER LINES. WHEN UTILITY CROSSINGS OCCUR, A MINIMUM 18" VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WATER LINE LOCATED AT THE HIGHER ELEVATION.



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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
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PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB/ELO

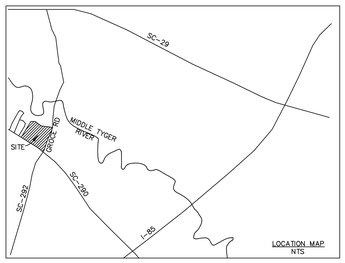
SHEET TITLE:

SITE PLAN

SHEET NO. CV2.1

PROJ. NO. 020420.00

2128 052722



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EROSION CONTROL LEGEND

- SILT FENCE
- LIMITS OF DISTURBANCE
- INLET PROTECTION
- VEGETATIVE MATTING

GRADING NOTES:
SEE CV4.3 FOR STANDARD SCDHEC AND GRASSING NOTES

EROSION CONTROL SEQUENCE OF EVENTS

5. GRADING (CV3.1)
   A. CONTINUE & COMPLETE CLEARING AND GRUBBING.
   B. BEGIN FULL GRADING OPERATIONS.
   C. INSTALL SWALES AND PIPE AS REQUIRED TO DIRECT RUNOFF TO CONTROL MEASURES.
   D. INSTALL NEW STORM DRAINAGE.
   E. PLACE INLET PROTECTION AROUND ALL CATCH BASINS.
   F. COMPLETE REMAINING GRADING, STORM DRAINAGE, AND SITE UTILITIES.
   G. COMPLETE BUILDING AND PAVEMENT CONSTRUCTION

6. STABILIZATION (CV3.1)
   A. APPLY GRASSING IN ACCORDANCE WITH GRASS NOTES.
   B. INSPECT AND MAINTAIN ALL EROSION CONTROL AS INDICATED IN GRADING NOTES.
   C. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON INDICATED ON GRASS NOTES.
   D. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED:
      (A) REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS THE SITE.
      (B) REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREAS AND APPLY GRASSING PER GRASS NOTES/SPECIFICATIONS.
   E. SUBMIT THE NOTICE OF TERMINATION TO SPARTANBURG COUNTY.

STORM DRAINAGE CHART

INLET SCHEDULE

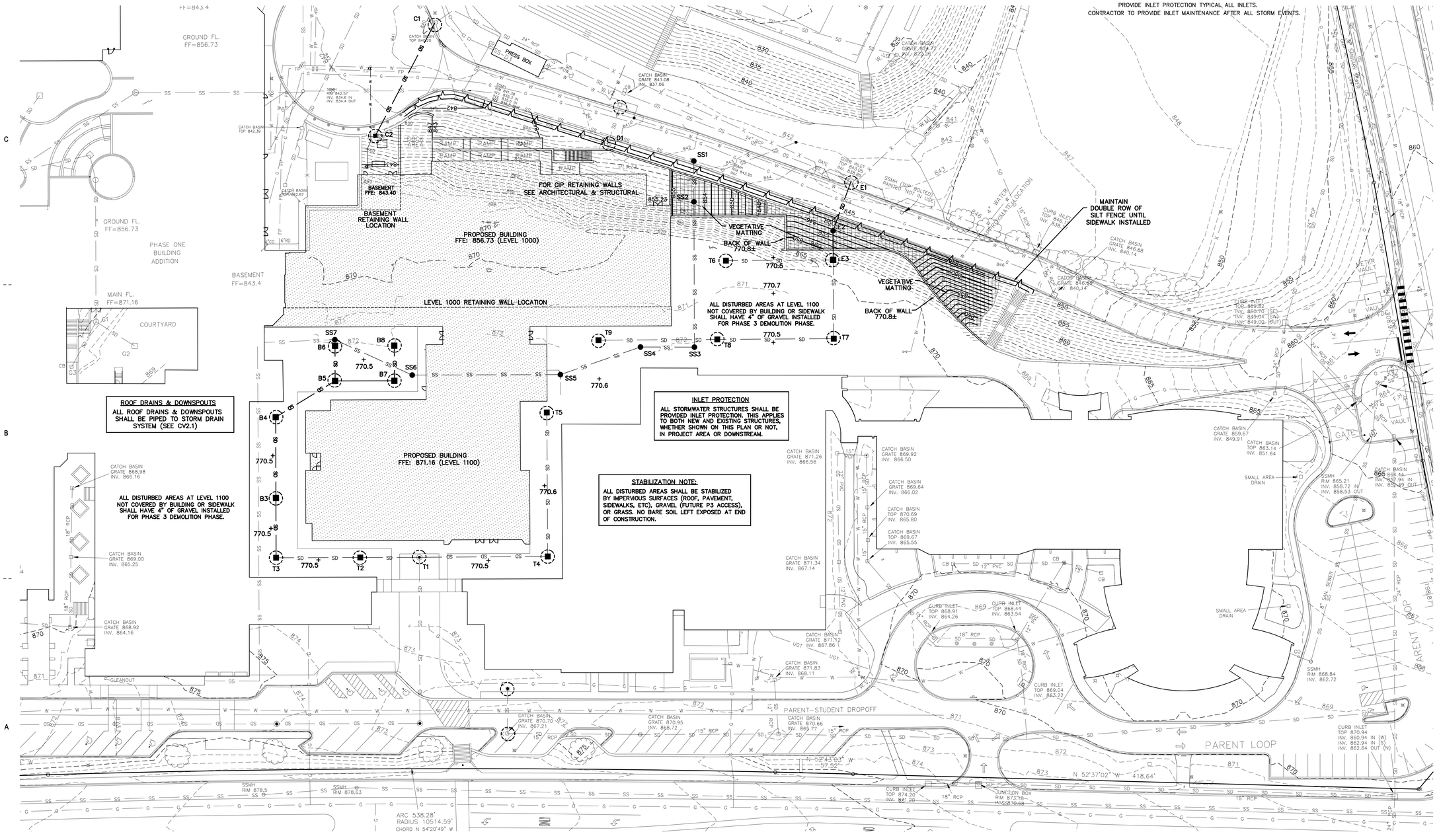
INLET	TYPE	TOP /THR.	INVERT IN	INVERT OUT
B8	GRATE	870.00		866.65
B7	GRATE	870.00	866.50	866.50
B6	GRATE	870.00		866.40
B5	GRATE	870.00	866.25	866.25
B4	GRATE	870.00	865.95	865.95
B3	GRATE	870.00	866.65	866.65
C2	GRATE	842.50		838.50
C1	EXISTING			
E3	GRATE	870.00	865.50 T6 864.50 T7	843.20
E2	JUNCTION	846.3±	843.00	839.10
E1	EXISTING		838.90	
T9	GRATE	870.00		866.00
T8	GRATE	870.00	865.50	865.50
T7	GRATE	870.00	865.00	865.00
T6	GRATE	870.00		866.00
T5	GRATE	870.00		866.05
T4	GRATE	870.00	865.45	865.45
T3	GRATE	870.00	865.40	865.40
T2	GRATE	870.00	865.15	865.15
T1	EXISTING	870.5±	864.95	864.95

PIPE SCHEDULE

FROM-TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
B8-B7	26.0	12 HP	
B7-B5	43.8	15 HP	
B6-B5	26.0	12 HP	
B5-B4	51.5	15 HP	
B4-B3	59.8	18 HP	
B3-T3	44.2	18 HP	
C2-C1	94.5	15 RCP	
E3-E2	21.6	15 RCP	
E2-E1	39.0	15 DIP	
T9-T8	87.9	15 HDPE	
T8-T7	86.2	15 HDPE	
T7-E3	58.3	15 HDPE	
T6-E3	79.4	15 HDPE	
T5-T4	106.6	15 HDPE	
T4-T1	95.0	18 HDPE	
T3-T2	62.3	18 HDPE	
T2-T1	43.8	18 HDPE	

REFERENCE SITE PLAN SPECIFICATIONS FOR CLASS PIPE / BEDDING.
SEE DETAILS FOR INLET SCHEDULE ELEVATION LOCATION.
PROVIDE INLET PROTECTION TYPICAL ALL INLETS.
CONTRACTOR TO PROVIDE INLET MAINTENANCE AFTER ALL STORM EVENTS.

SCALE: 1" = 30'



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PRINCIPAL IN CHARGE:	WAB
PROJECT ENGINEER:	WAB
DRAWN BY:	WAB/ELO

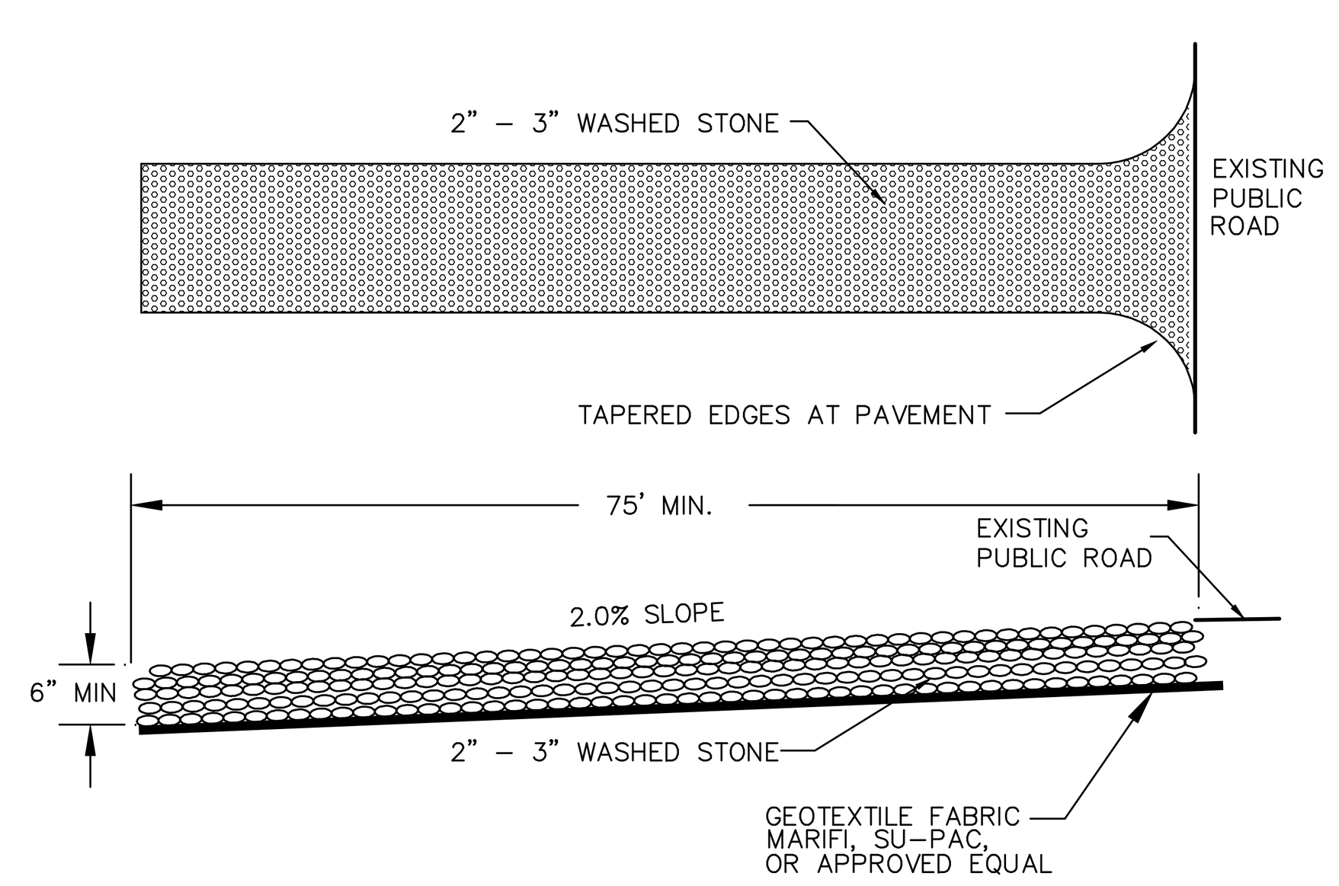
SHEET TITLE:

GRADING PLAN

SHEET NO. CV3.1

PROJ. NO. 020420.00

2128 052722

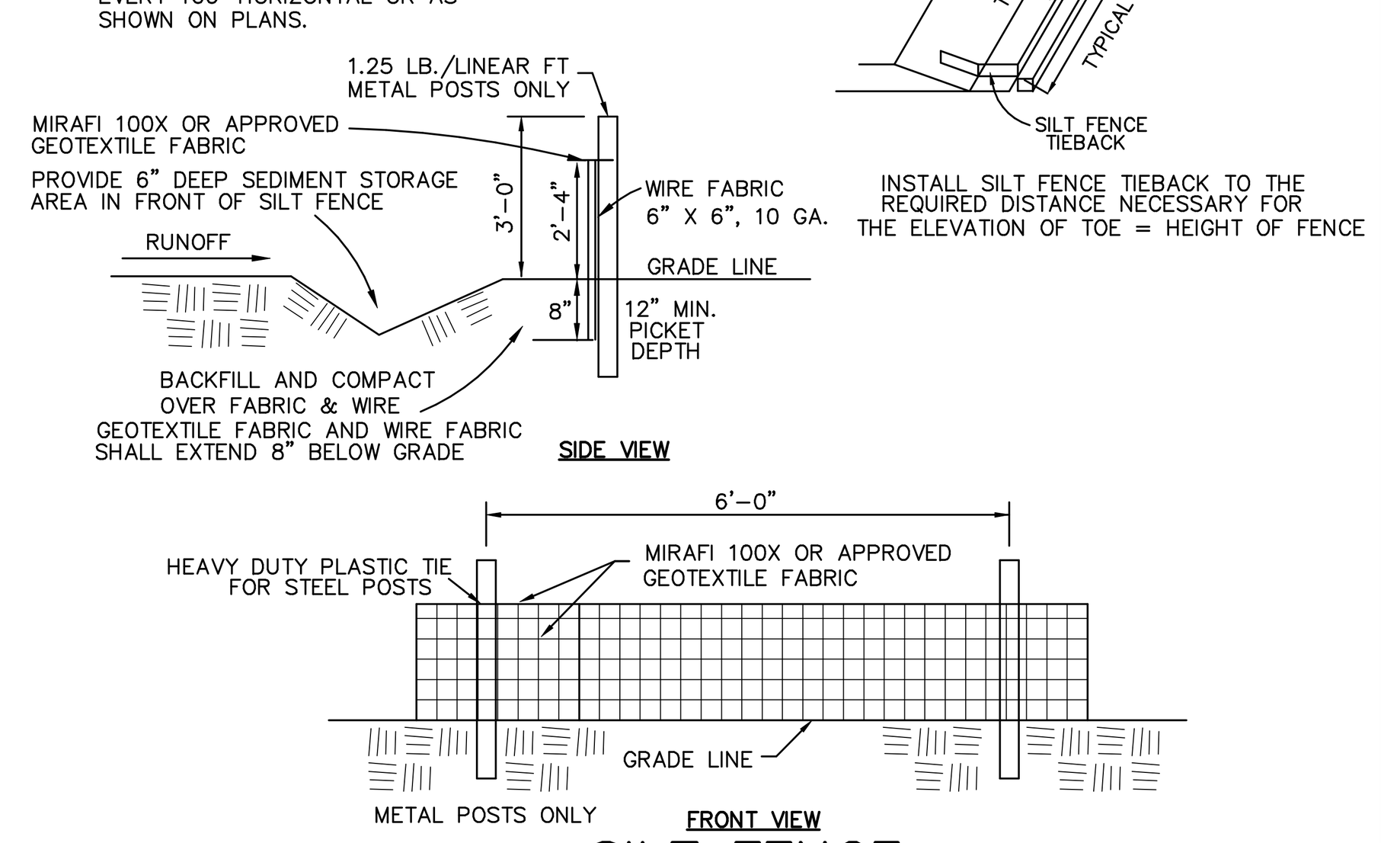


GRAVEL ENTRANCE/EXIT: WIDTH – 20.0', FLARED TO 25.0' AT ROAD
LENGTH – 50.0'
GRADE – 2.0%
PERIODICALLY REMOVE CONTAMINATED STONE AND REPLACE WITH CLEAN STONE.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

DETAIL 4.1A NOT TO SCALE

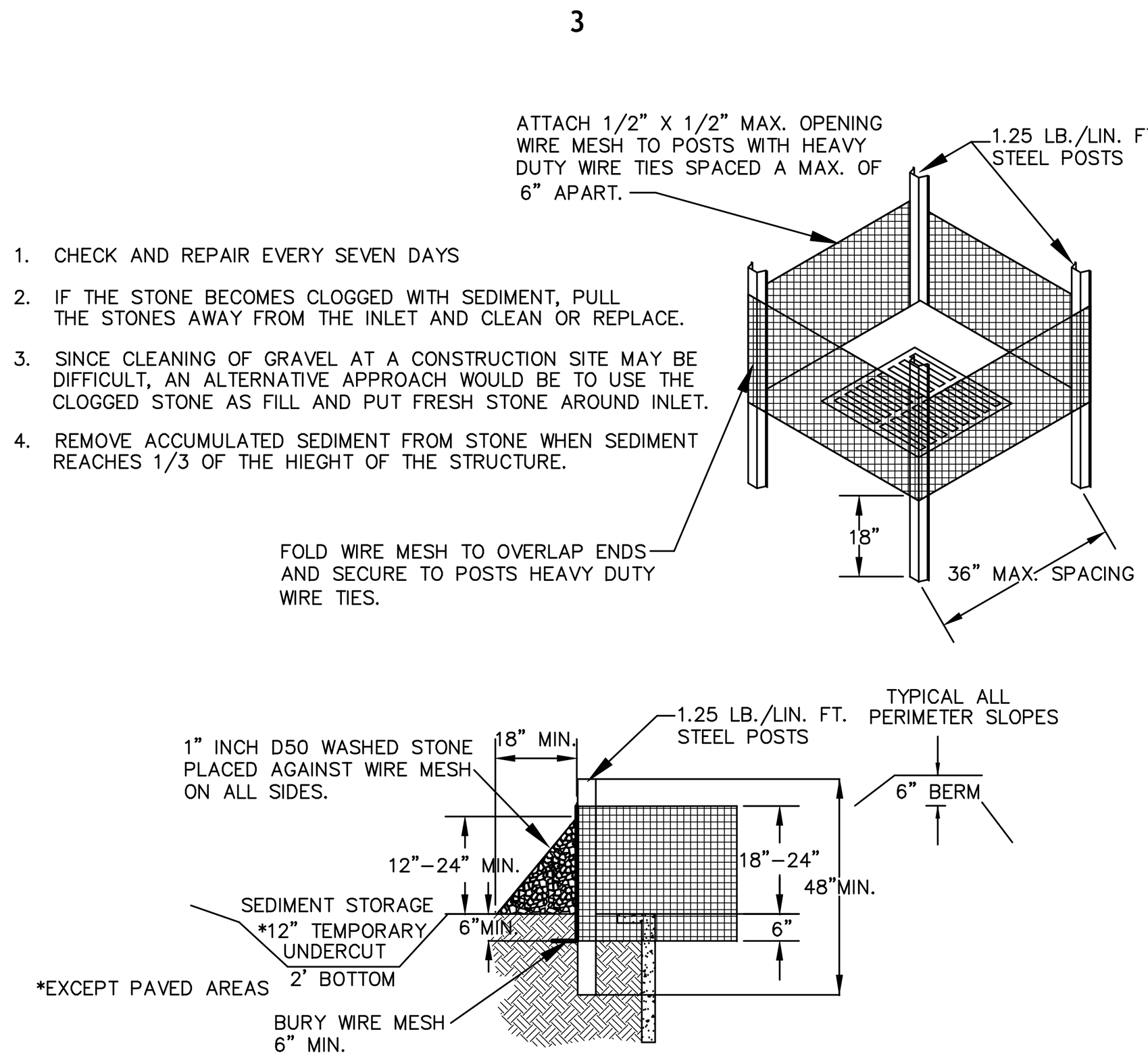
1. CHECK AND REPAIR SILT FENCE EVERY 7 DAYS
2. DO NOT ALLOW SILT TO ACCUMULATE GREATER THAN 8" IN DEPTH.
3. THE ENDS OF THE SILT FENCE SHALL BE TURNED UP CONTOUR TO ENSURE TRAPPING OF SEDIMENT.
4. PROVIDE SILT FENCE TIE BACKS EVERY 100' HORIZONTAL OR AS SHOWN ON PLANS.



SILT FENCE

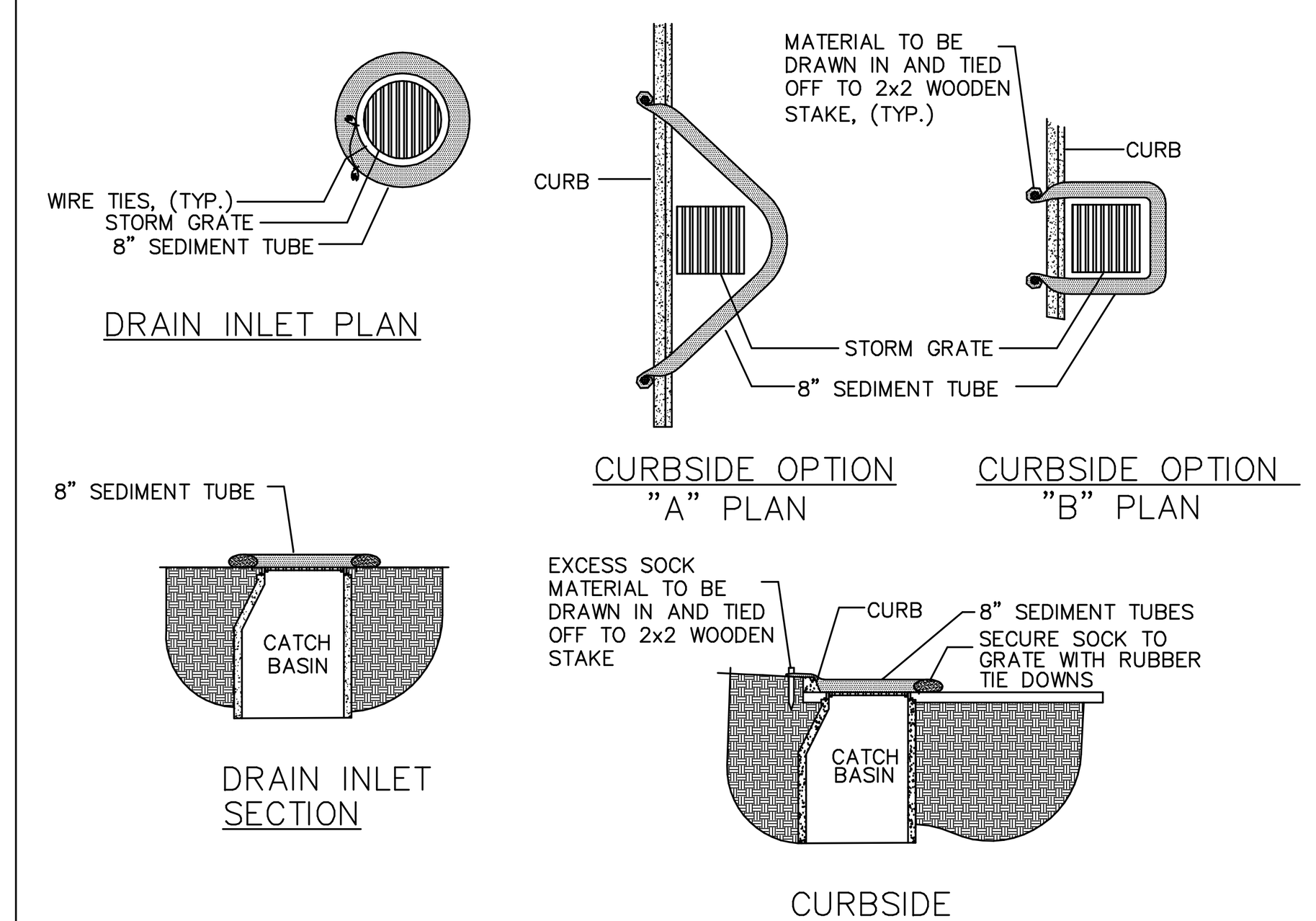
DETAIL 4.1B NOT TO SCALE

1. CHECK AND REPAIR EVERY SEVEN DAYS
2. IF THE STONE BECOMES CLOGGED WITH SEDIMENT, PULL THE STONES AWAY FROM THE INLET AND CLEAN OR REPLACE.
3. SINCE CLEANING OF GRAVEL AT A CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE TO USE THE CLOGGED STONE AS FILL AND PUT FRESH STONE AROUND INLET.
4. REMOVE ACCUMULATED SEDIMENT FROM STONE WHEN SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE STRUCTURE.



STONE AND WIRE MESH INLET PROTECTION

DETAIL 4.1C NOT TO SCALE

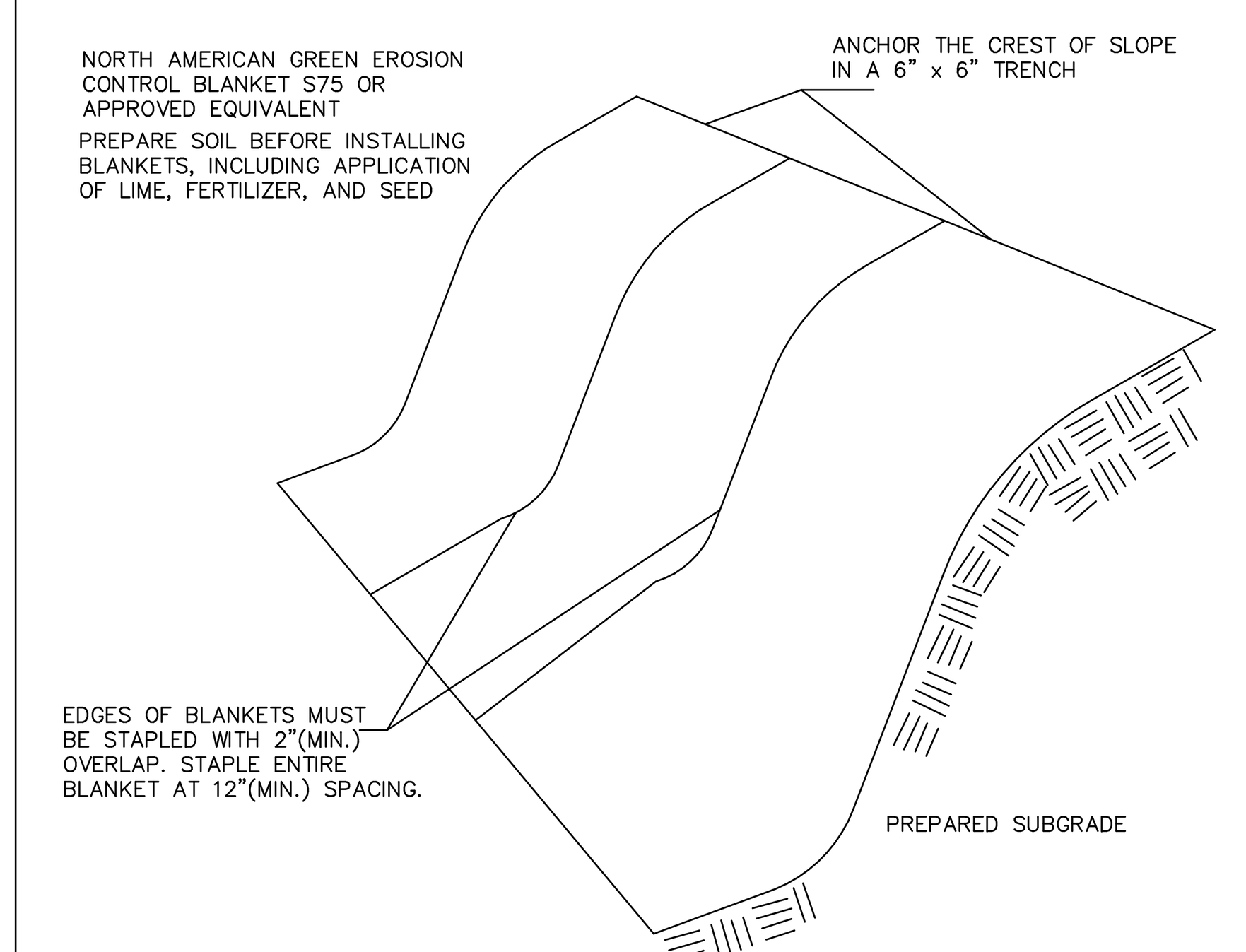


NOTES:
1. FOLLOW SAME MAINTENANCE SCHEDULE AS SILT FENCE
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES ONE THIRD (1/3) THE HEIGHT OF THE TUBE –– APPROXIMATELY 3 INCHES.
3. PROVIDE 12" TEMPORARY BERM BEHIND ALL PERIMETER SLOPE INLETS.

SEDIMENT TUBE INLET PROTECTION

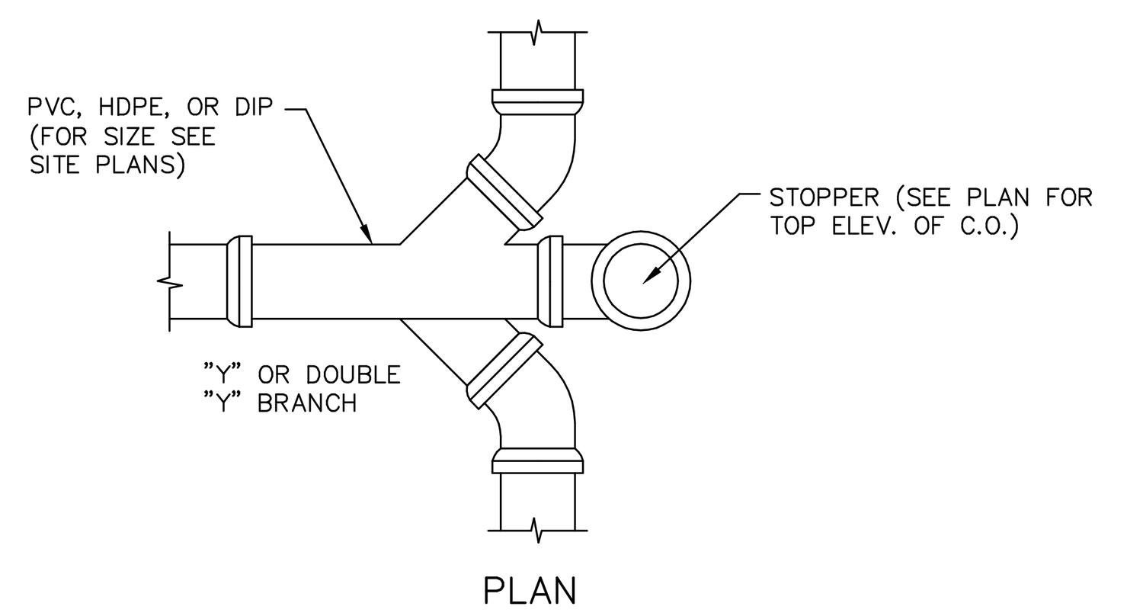
TEMPORARY PROTECTION & FOR BAISNS IN PAVED AREAS

DETAIL 4.1D NOT TO SCALE

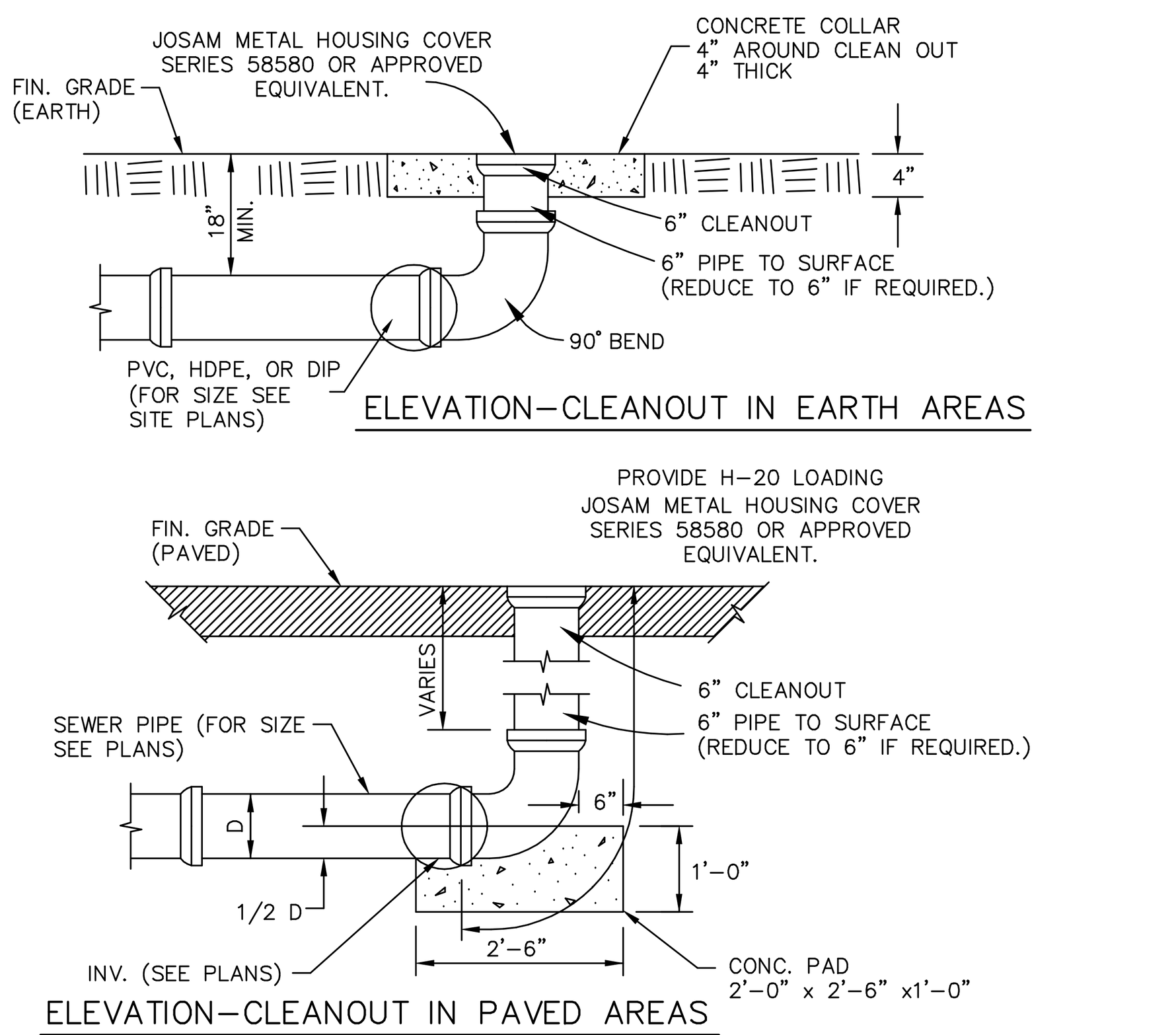


VEGETATIVE SLOPE MATTING

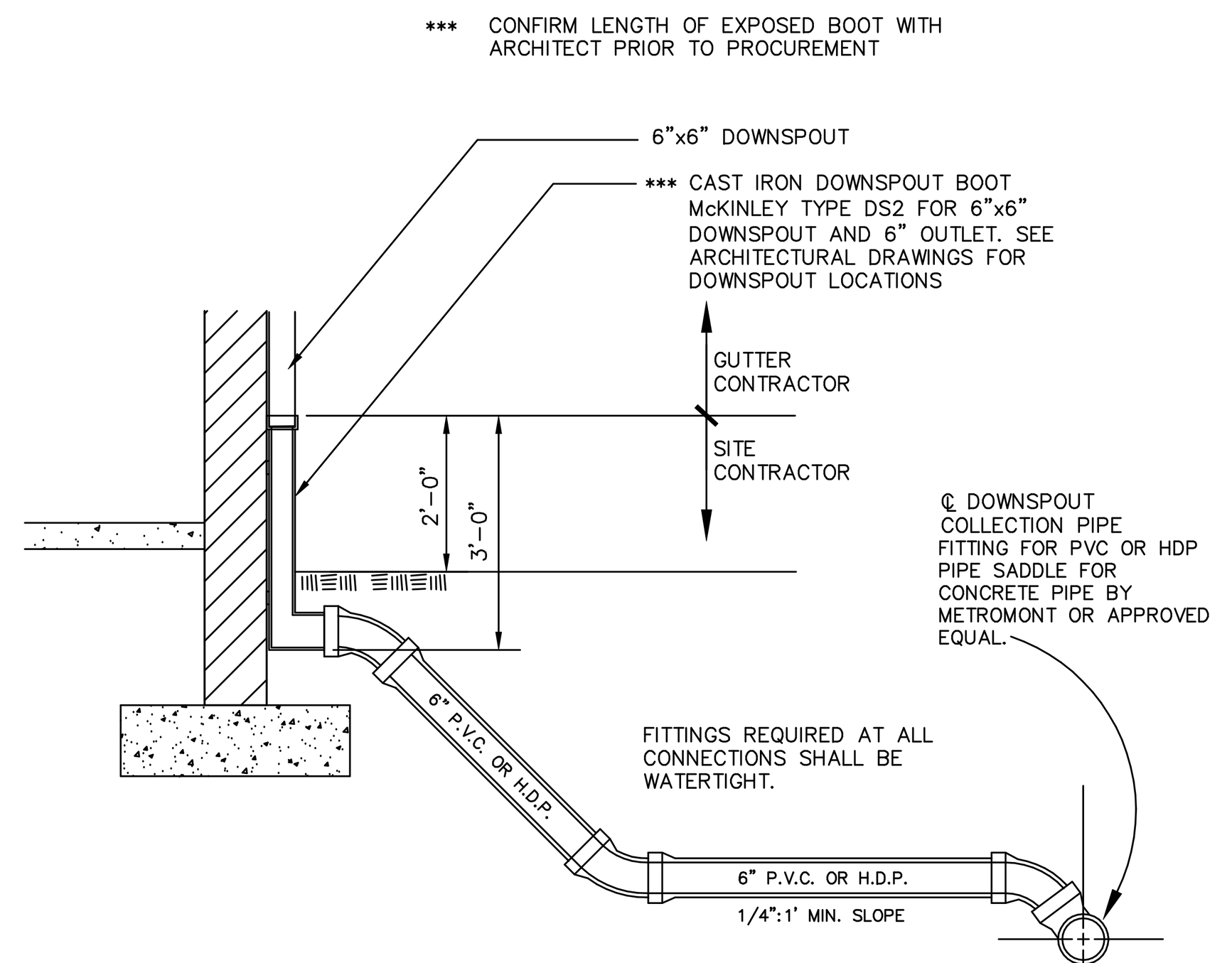
DETAIL 4.1E NOT TO SCALE



TYPICAL CLEANOUT

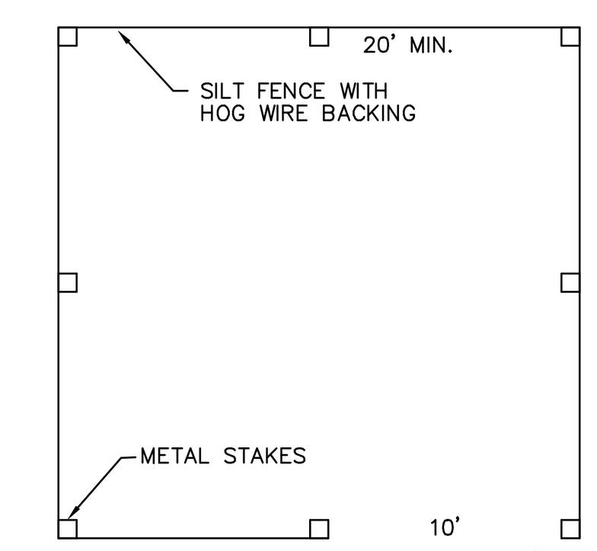


DETAIL 4.1F NOT TO SCALE



DOWNSPOUT CONNECTION

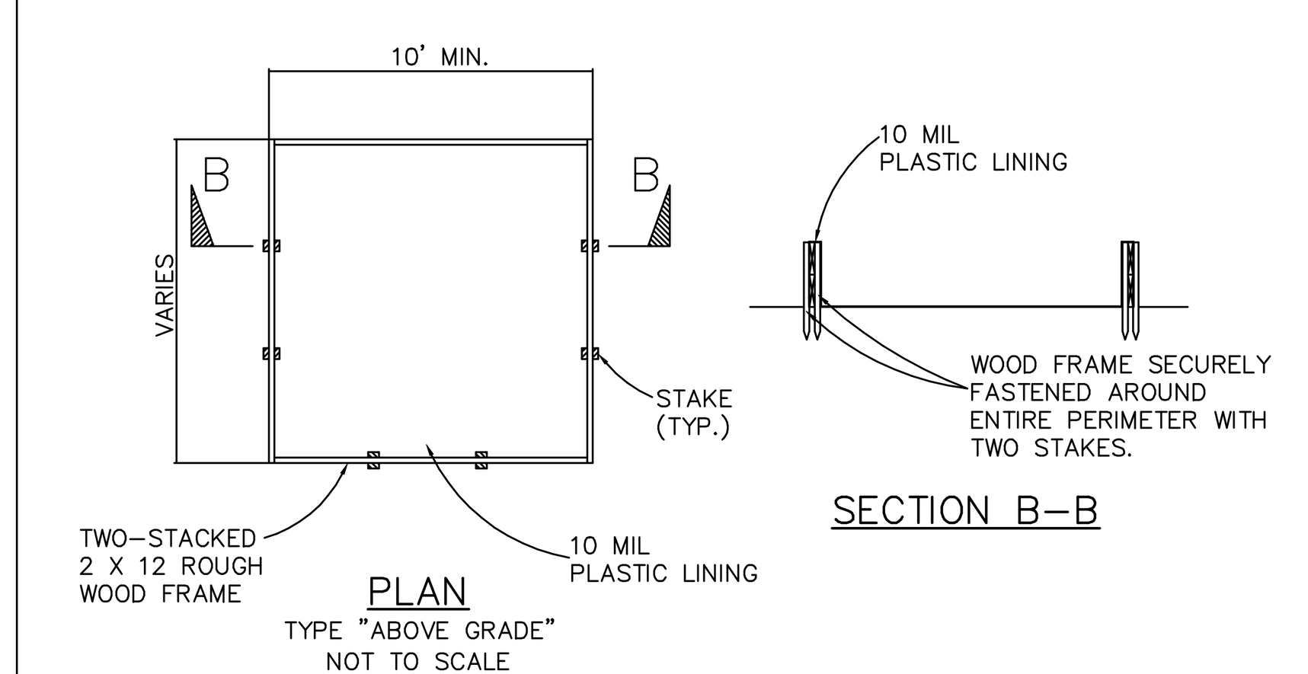
DETAIL 4.1G NOT TO SCALE



FLOW AWAY FROM ENCLOSURE

CONSTRUCTION DEBRIS ENCLOSURE

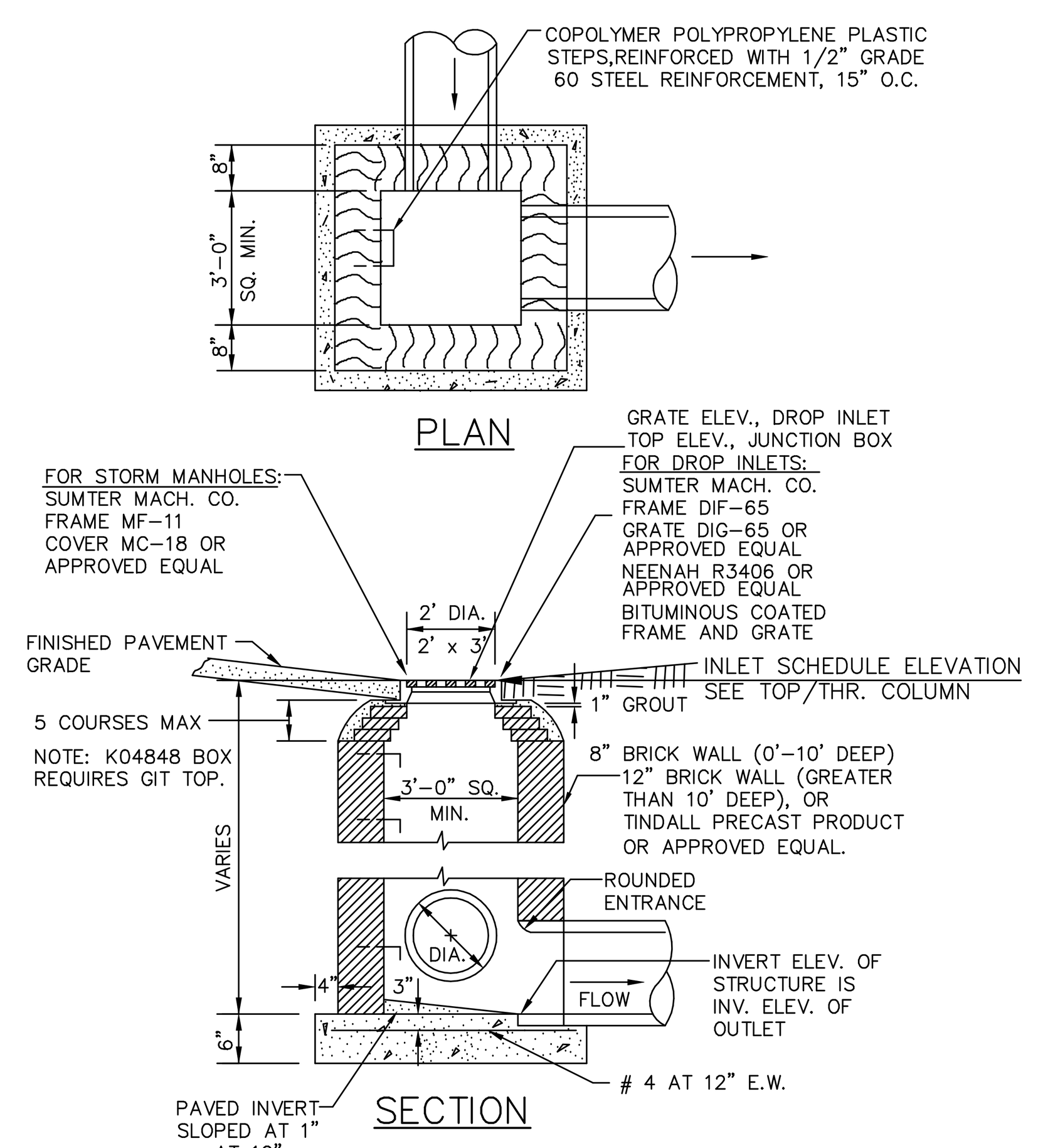
DETAIL 4.1H



CONCRETE WASH DOWN AREA

DETAIL 4.1J NOT TO SCALE

TOP 1' OF ALL KO BOXES TO BE BRICK TO ALLOW FIELD ADJUSTMENT IF REQUIRED.

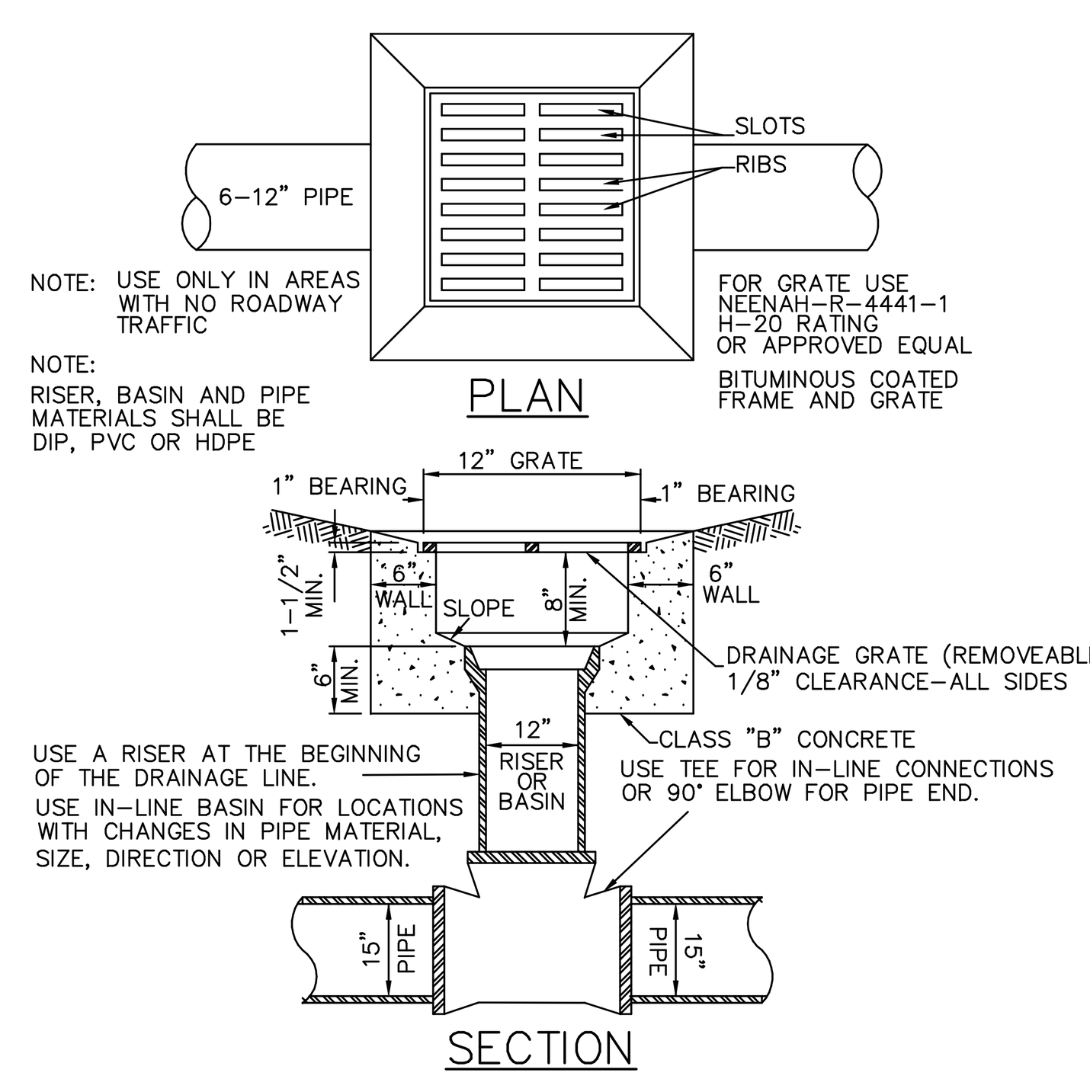


STANDARD GRATE INLET
STANDARD JUNCTION BOX

SCHEDULE OF GOVERNING DIMENSIONS FOR KO BOXES NOT EXCEEDING 7 FT. BURIAL DEPTH		
KO BOX SIZE	MAXIMUM PIPE O.D. SHORT WALL	MAXIMUM PIPE O.D. LONG WALL
KO3446	33"	45"
KO4848 WITH KO4848 GIT TOP	47"	47"

SCHEDULE OF GOVERNING DIMENSIONS FOR PIPE OVER 7 FT. DEPTH AND ROUND STRUCTURES		
MANHOLE ø	MAXIMUM PIPE O.D. FOR 0° DEFLECTION	MAXIMUM PIPE O.D. FOR 90° DEFLECTION
4'	34"	28"
5'	46"	37"
6'	55"	45"
7'	70"	54"
8'	82"	62"
10'	88"	79"

DETAIL 4.1P NOT TO SCALE



YARD INLET DETAIL

DETAIL 4.1K NOT TO SCALE

mcmillan pazdan smith
ARCHITECTURE

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	WAB
C	06/01/22	GMP SET	WAB

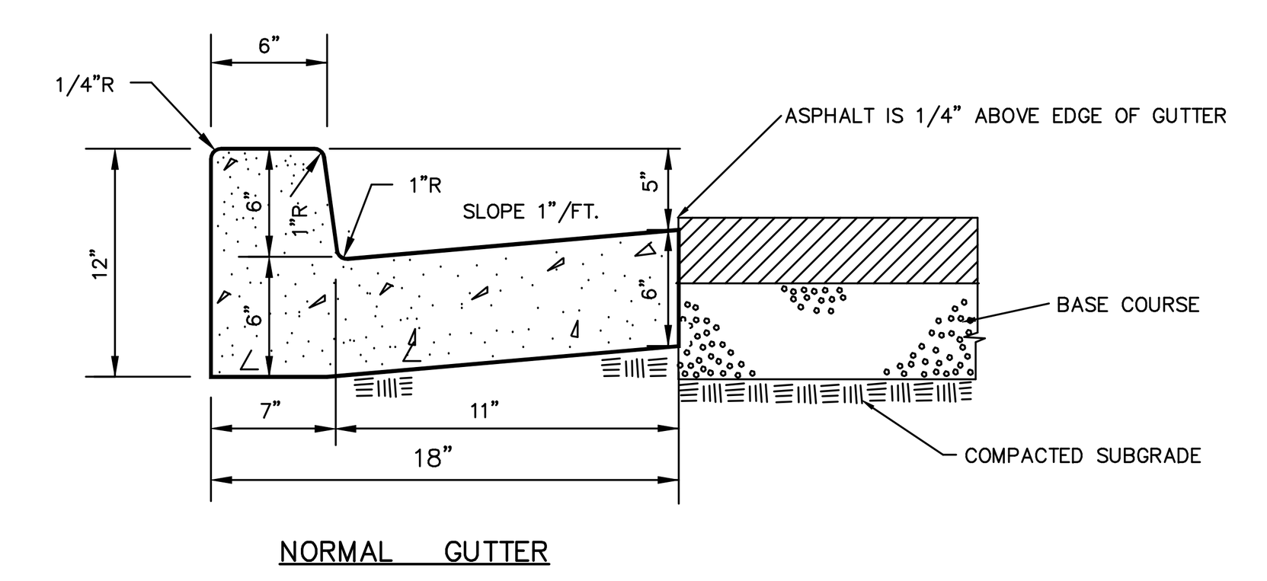
NOT FOR CONSTRUCTION FOR PRICING ONLY

PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB/ELO

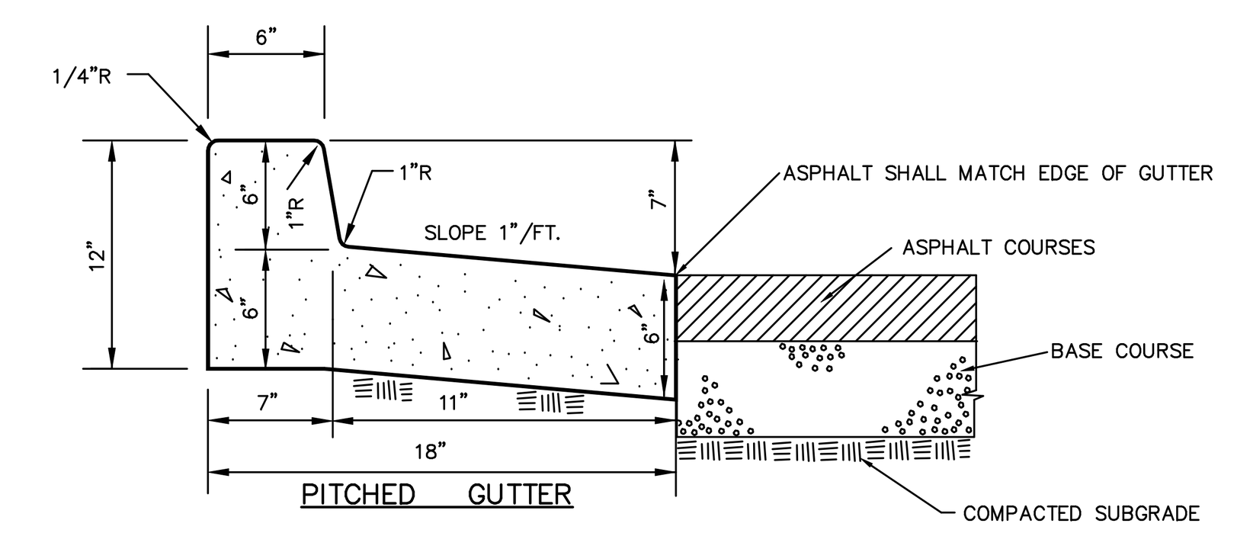
SHEET TITLE:

SITE DETAILS

SHEET NO. CV4.1
PROJ. NO. 020420.00



NORMAL GUTTER

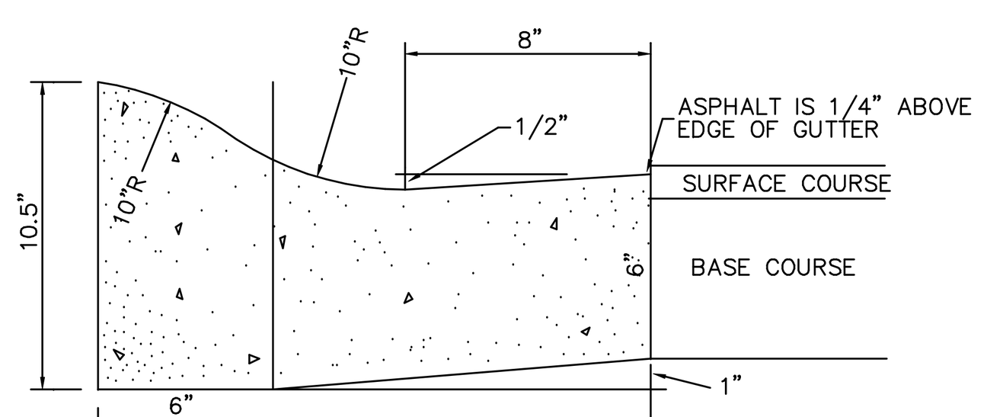


PITCHED GUTTER

COMBINATION CONCRETE CURB AND GUTTER

NOTES:

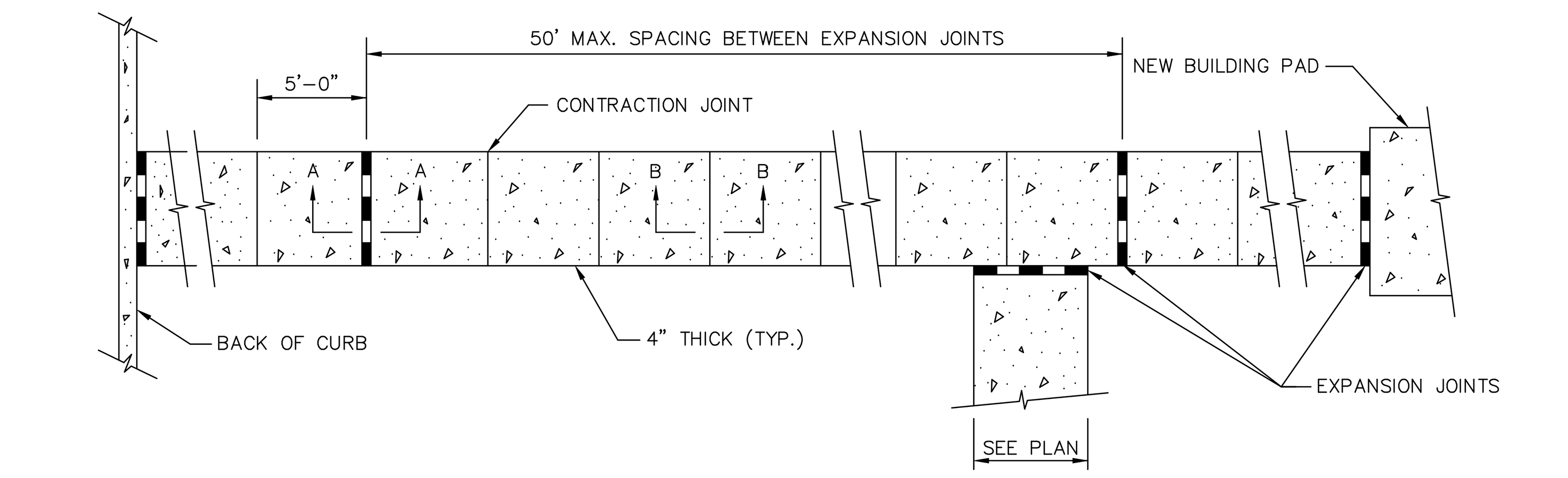
1. CURB AND GUTTER TO BE CONSTRUCTED IN 10 FOOT LENGTHS.
2. 1/2 INCH EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 50 FEET AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
3. 5 FOOT LONG TRANSITIONS SHALL BE PROVIDED BETWEEN NORMAL GUTTER AND PITCHED GUTTER UNLESS OTHERWISE NOTED.
4. 4000 PSI CONCRETE MINIMUM.

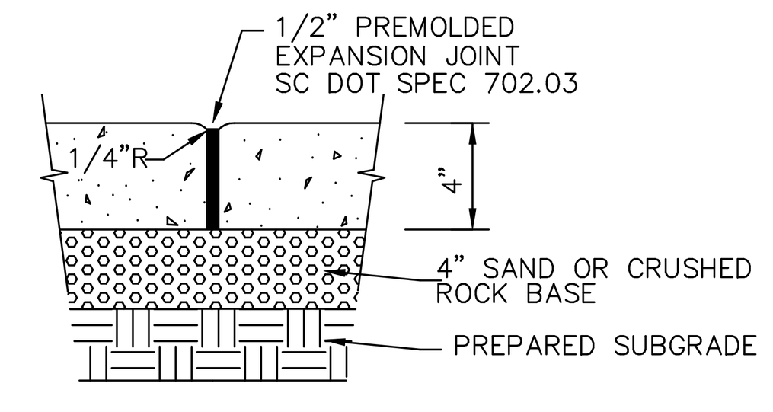


REFERENCE SCDOT STANDARD DWG 720-105-01 DETAIL 3

(1'- 6" OGEE)

DETAIL 4.2D NOT TO SCALE

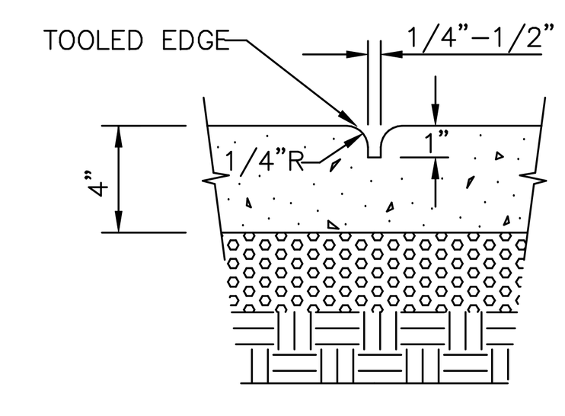




SECTION A–A

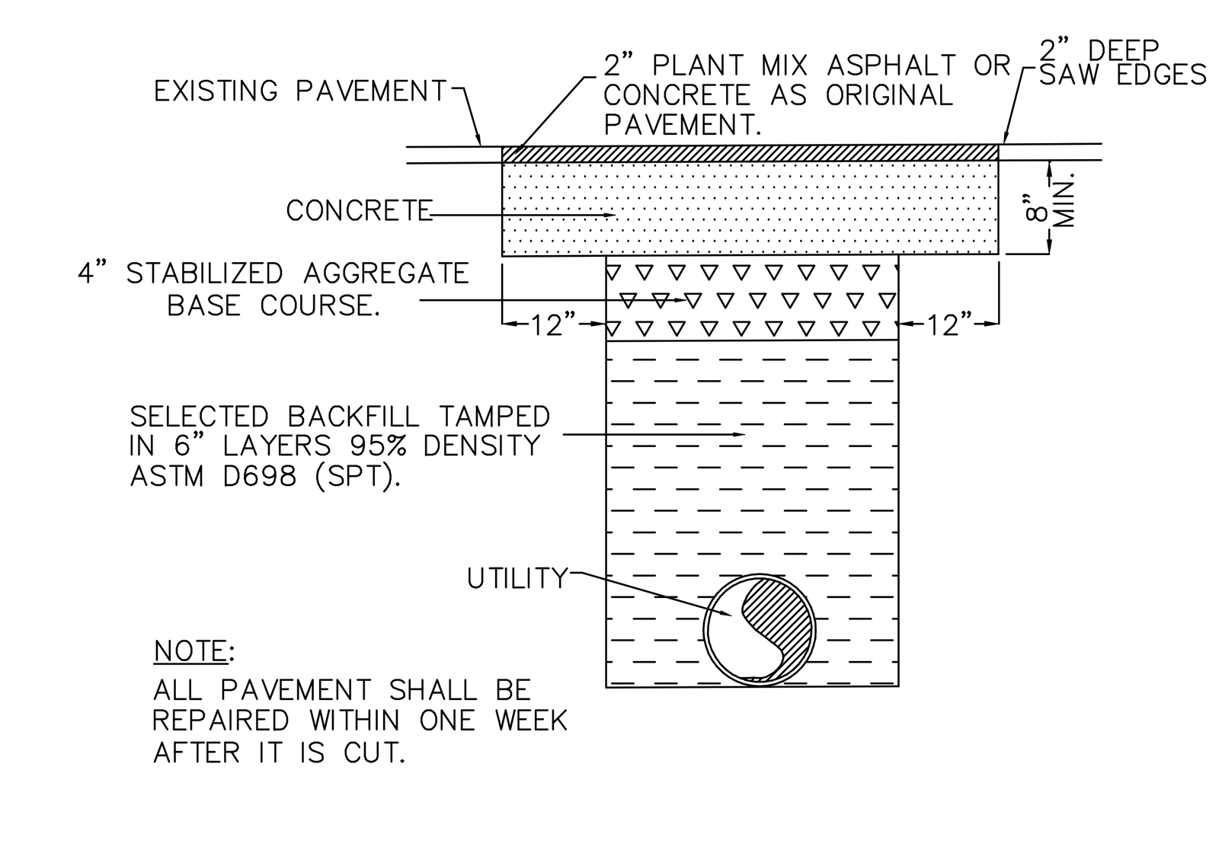
CONCRETE SIDEWALKS STANDARDS

SLOPE ALL SIDEWALKS FOR POSITIVE DRAINAGE. INSTALL WITH 1/8" PER FT. CROSS SLOPE. 1/4" PER FT. CROSS SLOPE MAXIMUM.



SECTION B–B

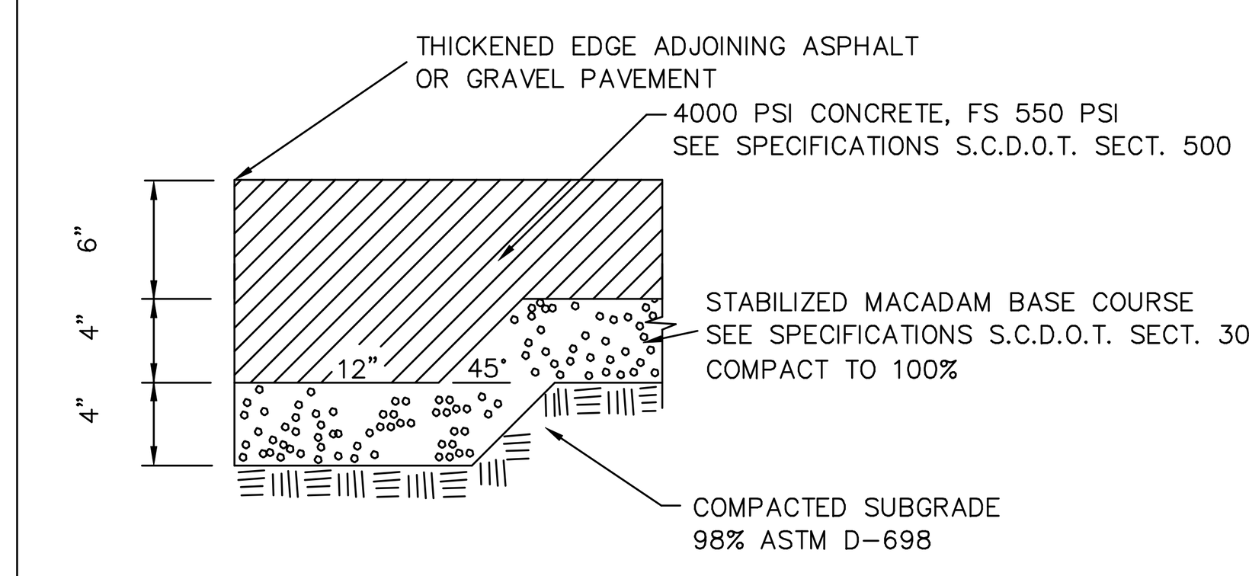
DETAIL 4.2A NOT TO SCALE



NOTE:
ALL PAVEMENT SHALL BE REPAIRED WITHIN ONE WEEK AFTER IT IS CUT.

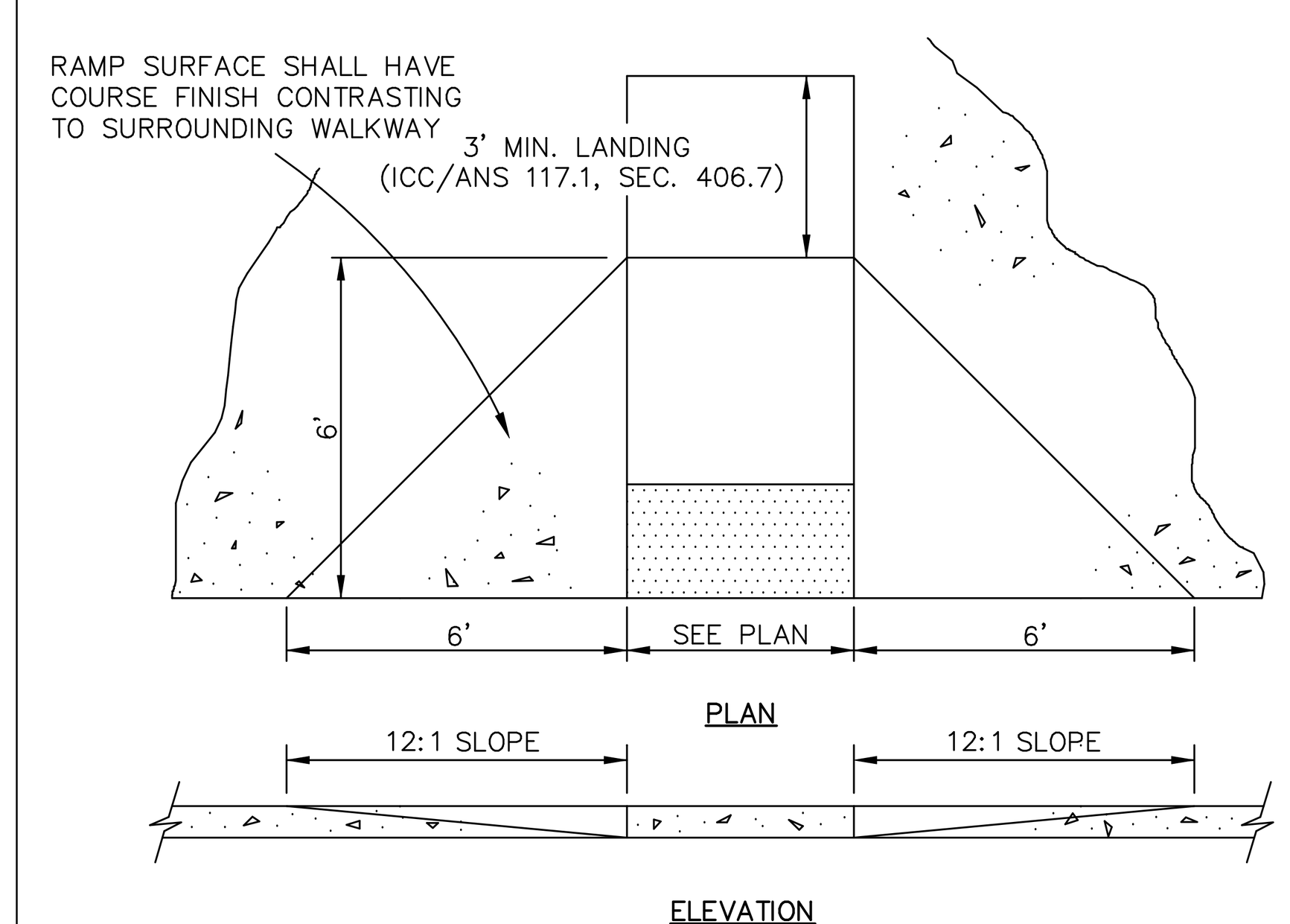
CUTTING AND REPLACING PAVEMENT

DETAIL 4.2B NOT TO SCALE



CONCRETE PAVEMENT

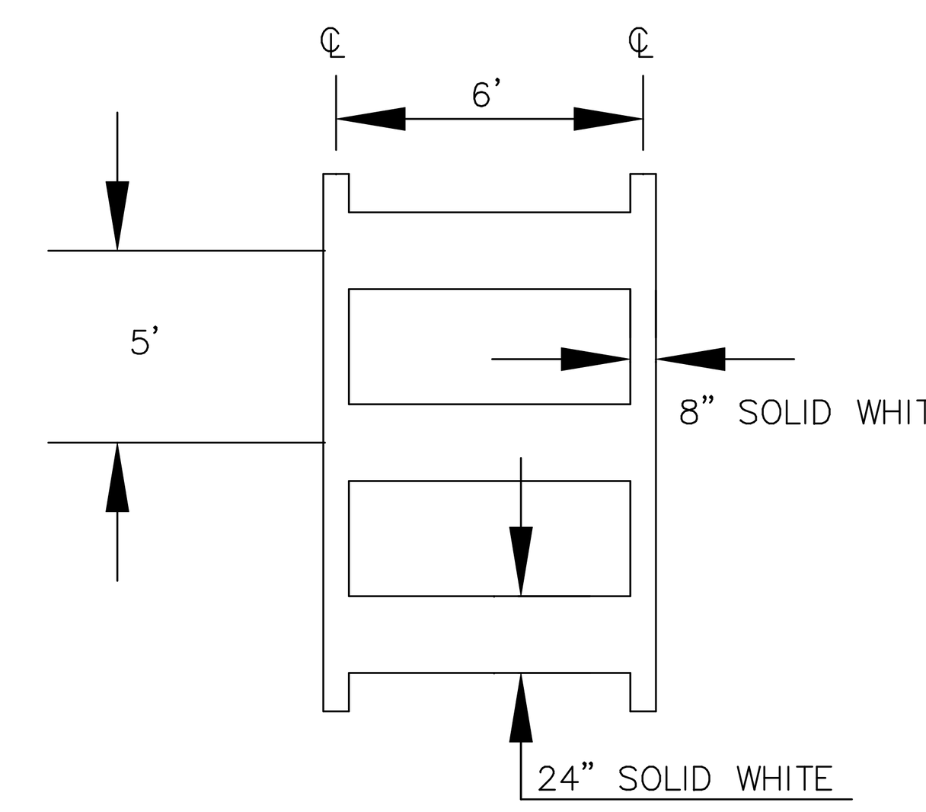
DETAIL 4.2C NOT TO SCALE



HANDICAP RAMP

NOTE:
PROVIDE TRUNCATED DOMES FOR ALL HANDICAPPED RAMPS. SEE SCDOT STANDARD DRAWINGS FOR DETECTABLE WARNING DETAILS 720-910 AND 720-905.

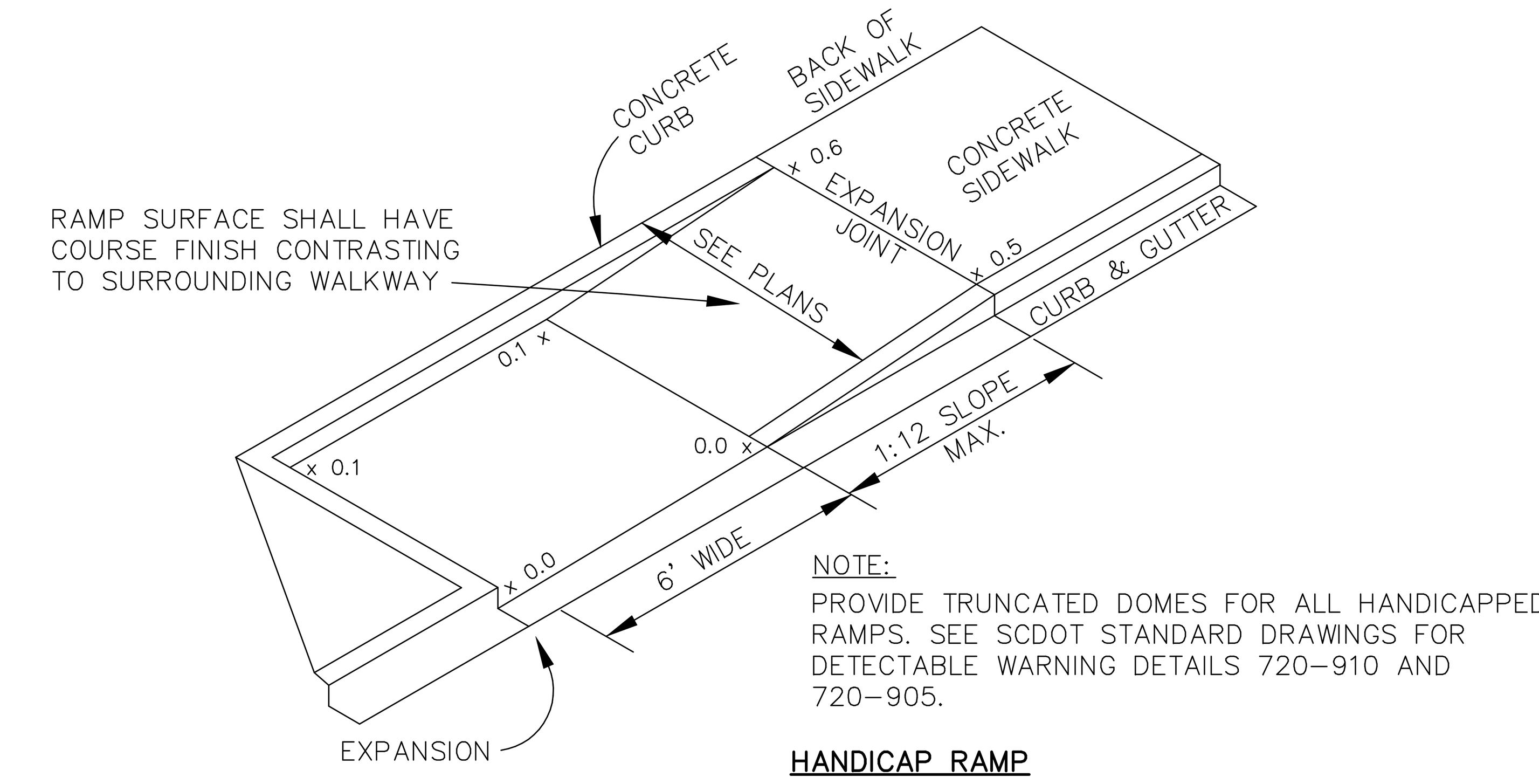
DETAIL 4.2G



SCHOOL CROSSWALK

1. POSITIVE TRANSVERSE MARKINGS IN LANES SO AS NOT TO BE IN WHEELPATH.

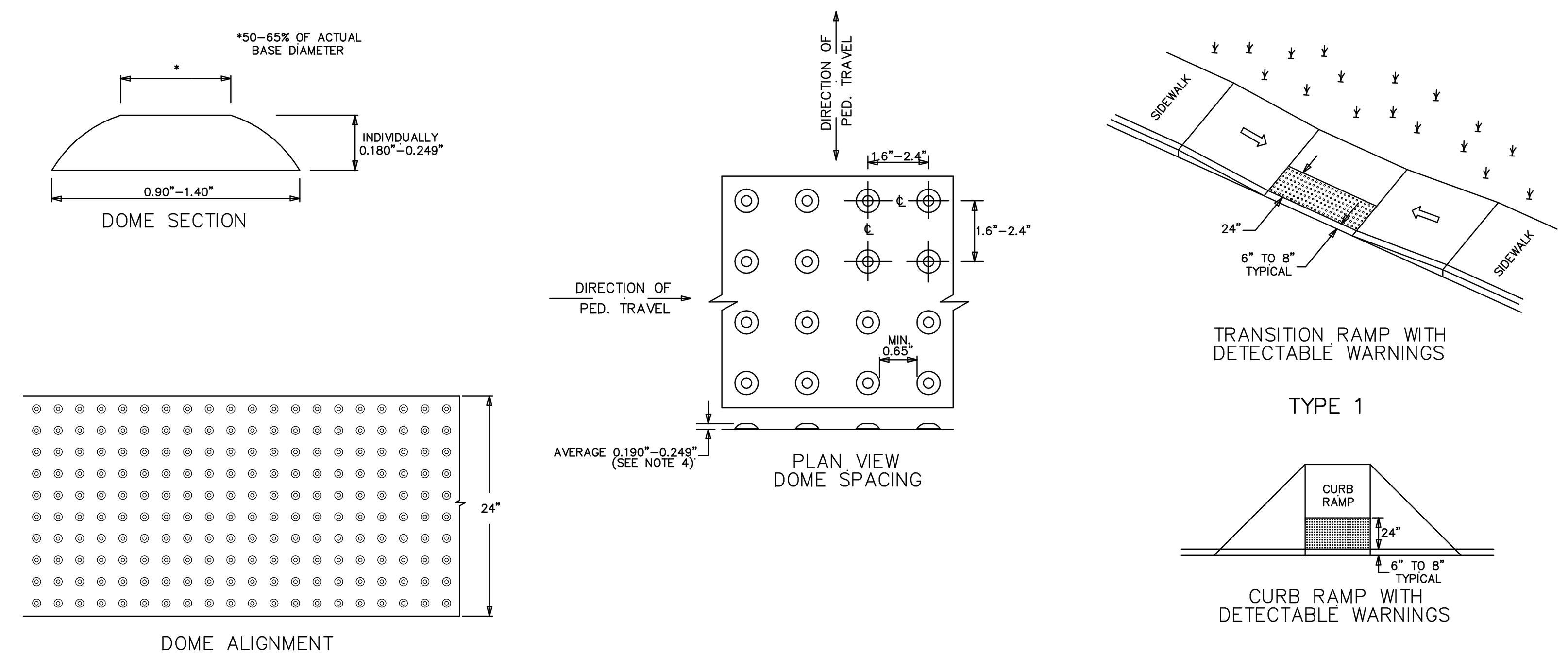
DETAIL 4.2H



NOTE:
PROVIDE TRUNCATED DOMES FOR ALL HANDICAPPED RAMPS. SEE SCDOT STANDARD DRAWINGS FOR DETECTABLE WARNING DETAILS 720-910 AND 720-905.

HANDICAP RAMP

DETAIL 4.2M NOT TO SCALE



TRUNCATED DOMES FOR HANDICAP RAMPS

DETAIL 4.2R NOT TO SCALE

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	WAB
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NOT FOR CONSTRUCTION
FOR PRICING ONLY

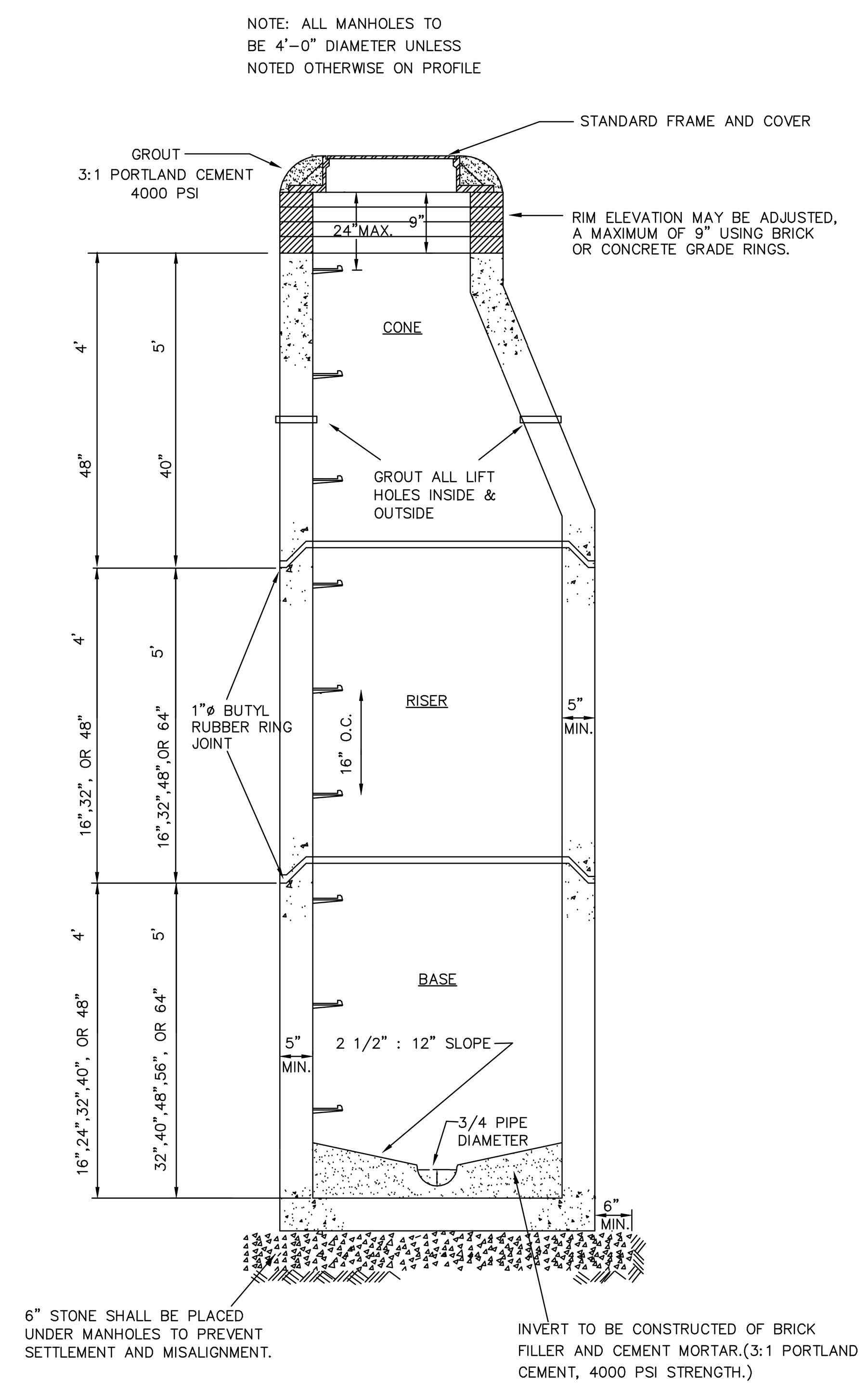
PRINCIPAL IN CHARGE: WAB
PROJECT ENIGNEER: WAB
DRAWN BY: WAB/ELO

SHEET TITLE:

SITE DETAILS

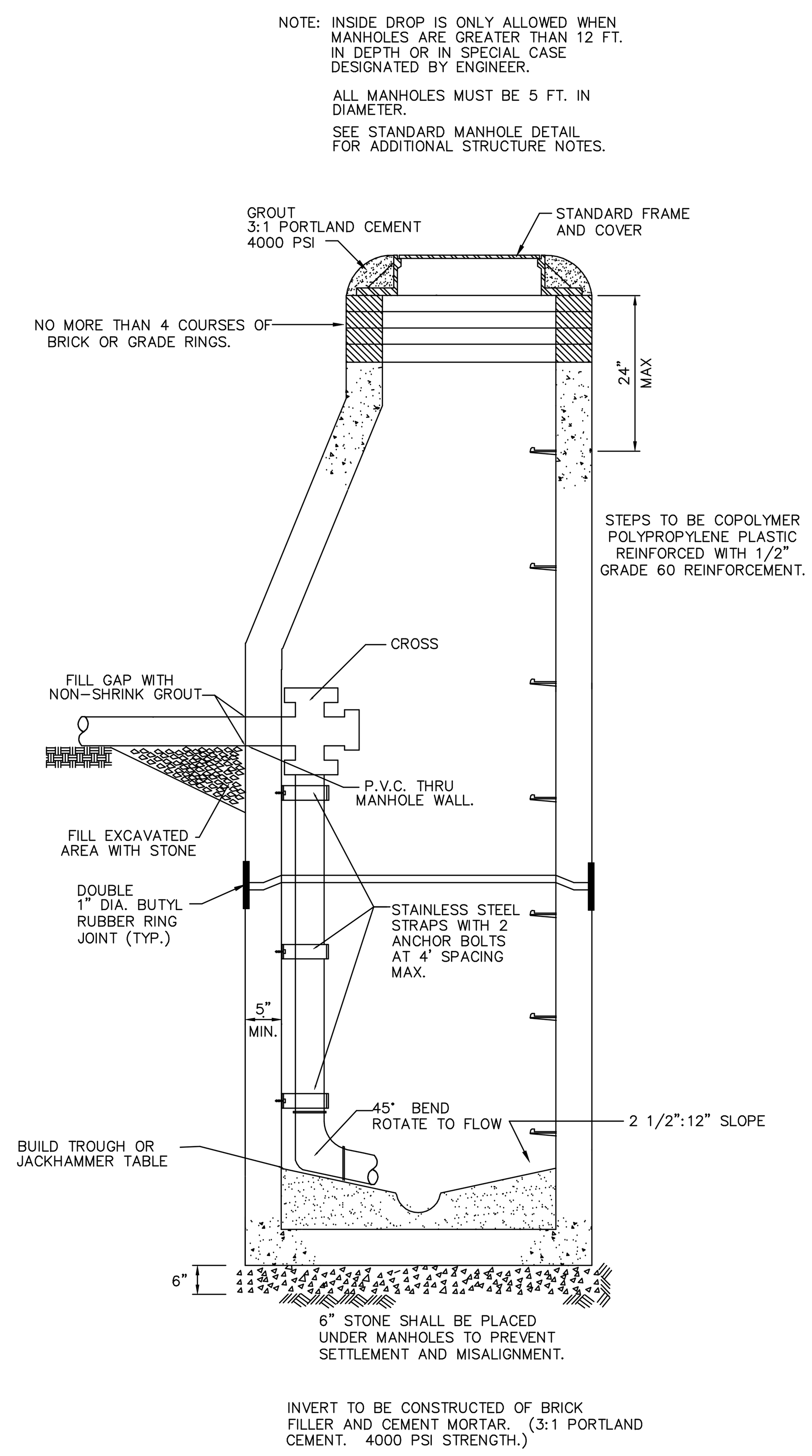
SHEET NO. PROJ. NO. 020420.00

CV4.2



STANDARD PRECAST MANHOLE

DETAIL 4.3A NOT TO SCALE



TYPICAL INSIDE DROP MANHOLE

DETAIL 4.3B NOT TO SCALE

GRASS NOTES:

1. ON ANY PORTION OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED, ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AS SOON AS PRACTICAL, BUT NOT EXCEEDING FOURTEEN (14) DAYS AFTER WORK HAS CEASED. TEMPORARY GRASS SHALL BE APPLIED IN AREAS WHERE FUTURE CONSTRUCTION WILL RE-DISTURB THIS AREA, OTHERWISE, PERMANENT GRASS SHALL BE APPLIED.
2. IN ANY AREA IN WHICH TEMPORARY GRASS HAS BEEN APPLIED, THE GRASS SHALL BE MOWED AND THE SEED BED RE-SCARIFIED BEFORE PERMANENT GRASS APPLICATION.
3. BEFORE PERMANENT GRASS SEEDING IS PERFORMED, THE ENGINEER/OWNER SHALL BE NOTIFIED FOR AN ON SITE INSPECTION OF THE PREPARED SEED BED AND FOR AN INSPECTION OF THE QUANTITIES OF MATERIAL TO BE APPLIED. CALL (864) 583-5432 TO SCHEDULE AN INSPECTION.
4. THE CONTRACTOR SHALL PROVIDE A CERTIFIED LETTER INDICATING THE QUANTITIES OF MATERIAL APPLIED PER ACRE.
5. BEFORE ACCEPTANCE OF THE SEEDING PERFORMED FOR THE ESTABLISHMENT OF PERMANENT VEGETATION, THE CONTRACTOR WILL BE REQUIRED TO PRODUCE A UNIFORM VEGETATIVE COVER WITH A DENSITY OF % OF THE SEEDED AREA.
6. GRASSING SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITH THE FOLLOWING CRITERIA:
   A. LIME SHALL BE AGRICULTURAL GRADE GROUND LIMESTONE CONTAINING LEAST 34% MAGNESIUM CARBONATE.
   B. SEED SHALL BE A MINIMUM 90% PURITY AND 80% GERMINATION.
   C. AREAS TO HAVE GRASS APPLIED SHALL BE SCARIFIED CULTIVATED TO A DEPTH OF 3 INCHES, WITH ALL CLODS OR CLUMPS GREATER THAN 3" BROKEN UP AND FOREIGN MATERIAL INCLUDING ROCK, ROOTS, AND MISC. DEBRIS REMOVED.
   D. FERTILIZER AND LIME SHALL BE THOROUGHLY WORKED INTO THE SOIL, AND THE SURFACE RAKED SMOOTH BEFORE APPLYING SEED.
   E. SEED SHALL BE APPLIED EVENLY AT THE MINIMUM RATE AND RAKED IN LIGHTLY WITH APPROXIMATELY 1/4" TOPSOIL COVER. SEEDED AREAS SHALL BE DRESSED SMOOTH, THEN MULCH (STRAW) SHALL BE APPLIED MECHANICALLY.
   F. AREAS SHALL BE SPRAYED IMMEDIATELY WITH AN EMULSION TO BIND SEED AND MULCH.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL MAINTENANCE NECESSARY TO KEEP SEEDED AREAS IN SATISFACTORY CONDITION UNTIL THE WORK IS ACCEPTED. THIS INCLUDES MOWING, IRRIGATING, REPAIRING OF EROSION WASHES, AND ADDITIONAL SEED, FERTILIZER AND MULCH APPLIED TO AREAS WHERE A SATISFACTORY STAND OF GRASS HAS NOT BEEN ACHIEVED. ALL COSTS INCLUDING IRRIGATING AND MOWING TO BE INCLUDED IN BASE BID PRICE.
8. PAYMENT TO THE CONTRACTOR SHALL NOT EXCEED 75 % OF THE CONTRACT PRICE FOR GRASS UNTIL A SATISFACTORY STAND OF PERMANENT GRASS HAS BEEN OBTAINED.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STAND OF GRASS WITH A ROOT SYSTEM THAT HAS DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE CONTRACTOR SHALL WARRANTY ALL GRASS FOR A PERIOD OF 1 YEAR BEGINNING FROM THE DATE OF ACCEPTANCE BY THE OWNER/ENGINEER.
10. ALL COSTS FOR PROVIDING AN ACCEPTABLE STAND OF GRASS (PERMANENT & TEMPORARY SEEDINGS) SHALL BE INCLUDED IN BASE BID. NO ADDITIONAL CHARGES WILL BE HONORED FOR REPAIRS DUE TO WEATHER OR OTHER REASONS. THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY AND COSTS FOR PROVIDING AN ACCEPTABLE STAND OF GRASS.

PERMANENT GRASS

MAY 1 – AUGUST 31
BERMUDA (WITHOUT HULLS) 75 LB/ACRE
BROWN TOP MILLET 10 LB/ACRE
FESCUE 25 LB/ACRE
FERTILIZER 10-10-10 1000 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)
AGRICULTURAL LIMESTONE 3000 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE

SEPTEMBER 1 – APRIL 30
FESCUE 150 LB/ACRE
BERMUDA (WITH HULLS) 50 LB/ACRE
RYE GRAIN 25 LB/ACRE
FERTILIZER 10-10-10 1000 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)
AGRICULTURAL LIMESTONE 3000 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE

SLOPES (2.5:1 AND STEEPER)
WEEPING LOVEGRASS 25 LB/ACRE
FERTILIZER 10-10-10 1000 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)
AGRICULTURAL LIMESTONE 3000 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE

TEMPORARY GRASS

JAN 1 – MAY 1
RYE (GRAIN) 110 LB/ACRE
ANNUAL LESPEDEZA 30 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE
AGRICULTURAL LIMESTONE 2000 LB/ACRE
FERTILIZER 10-10-10 500 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)

MAY 1 – AUG 15
GERMAN MILLET 50 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE
AGRICULTURAL LIMESTONE 2000 LB/ACRE
FERTILIZER 10-10-10 500 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)

AUG 15 – DEC 30
RYE (GRAIN) 110 LB/ACRE
MULCH (STRAW) 4000 LB/ACRE
AGRICULTURAL LIMESTONE 3000 LB/ACRE
FERTILIZER 10-10-10 500 LB/ACRE
(EARTH FRIENDLY – SLOW NITROGEN RELEASE)

GRASSING NOTES

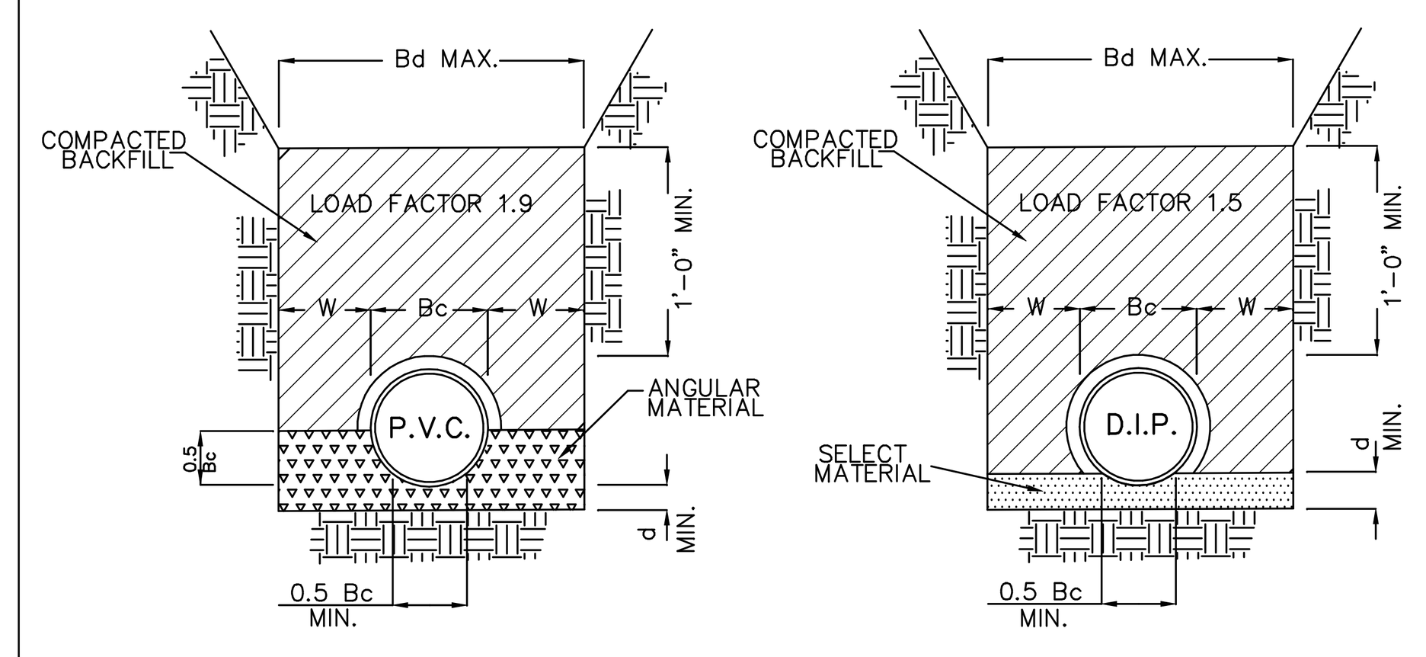
NOTES:

DITCH WIDTH NOT TO EXCEED Bd 2' OVER PIPE.

DUCTILE IRON PIPE TO BE INSTALLED IN CLASS "C".

P.V.C PIPE TO BE INSTALLED IN CLASS "B".

PIPE SIZE 8" TO 30" DESIGN BASED ON (Bd, MAX. DITCH WIDTH) NOT USING TRENCH BOX.

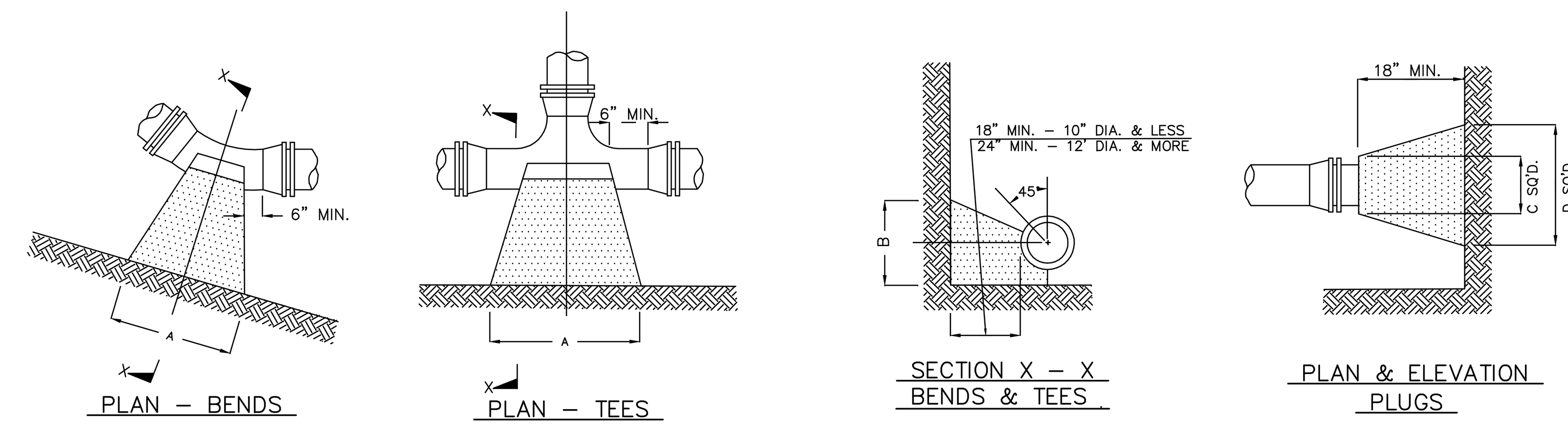


IMPROVED DITCH BEDDING DIMENSIONS FOR CLASS "B" AND CLASS "C"

PIPE SIZE I. D.	Bc OUT DIA.	W MAX. WORK SPACE	Bd MAX. DITCH WIDTH	d DEPTH OF BEDDING UNDER PIPE
8"	10"	8"	2'-3"	4"
10"	12"	9"	2"-6"	4"
12"	14"	9"	2" 9"	4"
15"	18"	10"	3'-0"	4"
18"	22"	10"	3'-6"	4"
21"	24"	9"	3'-6"	6"
24"	27"	10"	4'-0"	9"

PIPE BEDDING DETAIL

DETAIL 4.3F NOT TO SCALE

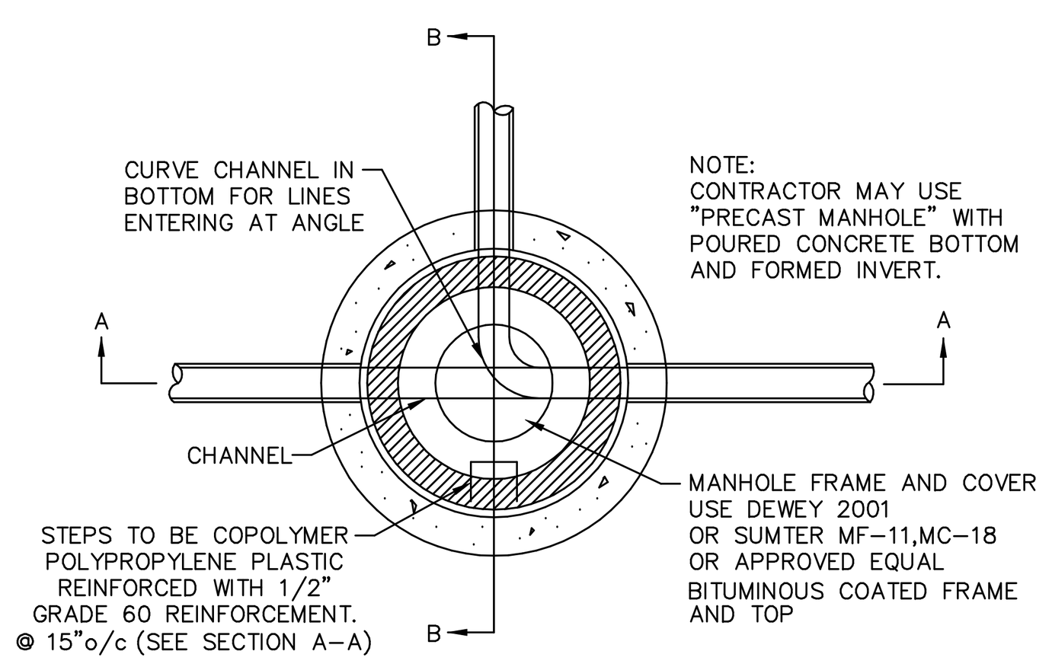


PIPE SIZE	90° BEND		45° BEND		22-1/2° BEND		11-1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
2"/3"	18"	18"	12"	12"	12"	12"	12"	12"	18"	18"	18"	18"
6"	24"	24"	24"	12"	24"	12"	24"	12"	24"	18"	24"	18"
8"	36"	30"	24"	24"	24"	12"	24"	12"	36"	24"	36"	24"
10"	45"	36"	36"	24"	24"	18"	24"	12"	45"	24"	45"	24"
12"	48"	36"	36"	36"	24"	24"	24"	12"	48"	36"	48"	36"

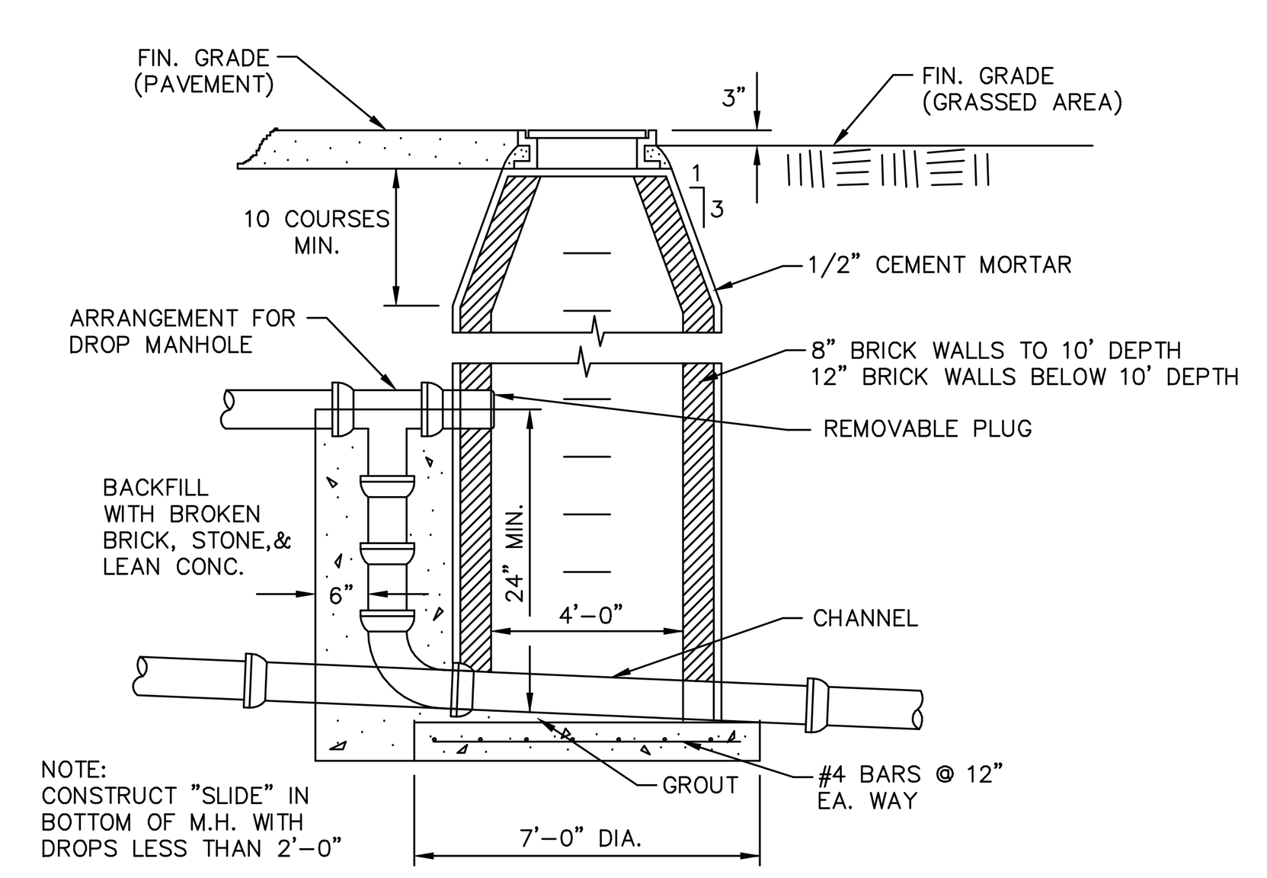
SOIL BEARING = 2000 P.S.F. INTERNAL PRESSURE = 200 P.S.I.

CONCRETE THRUST BLOCK

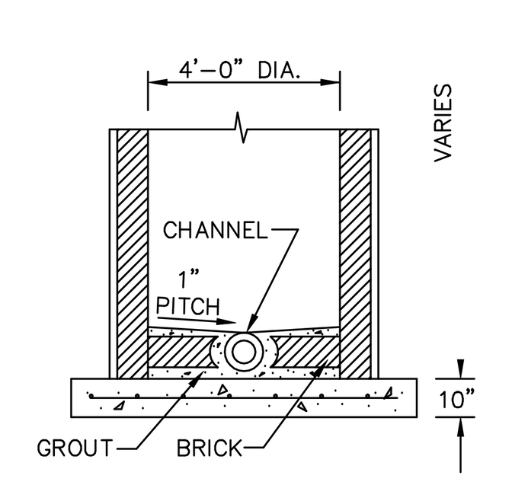
DETAIL 4.3G NOT TO SCALE



SECTIONAL PLAN



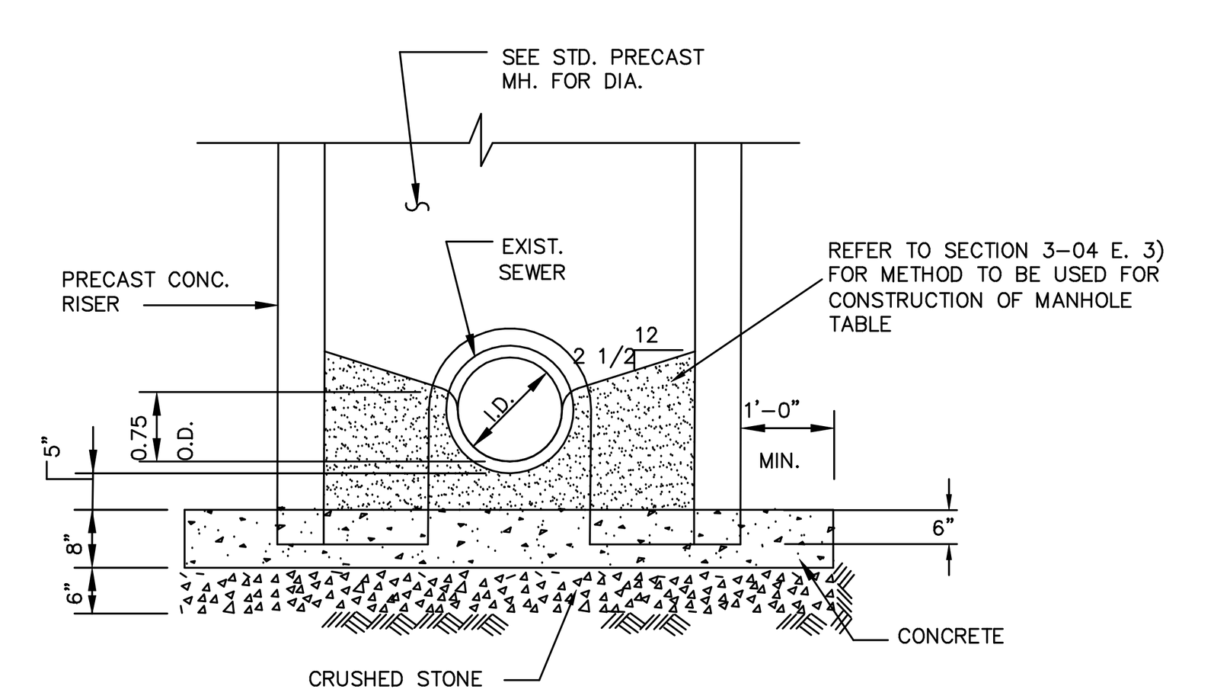
SECTION A–A



SECTION B–B

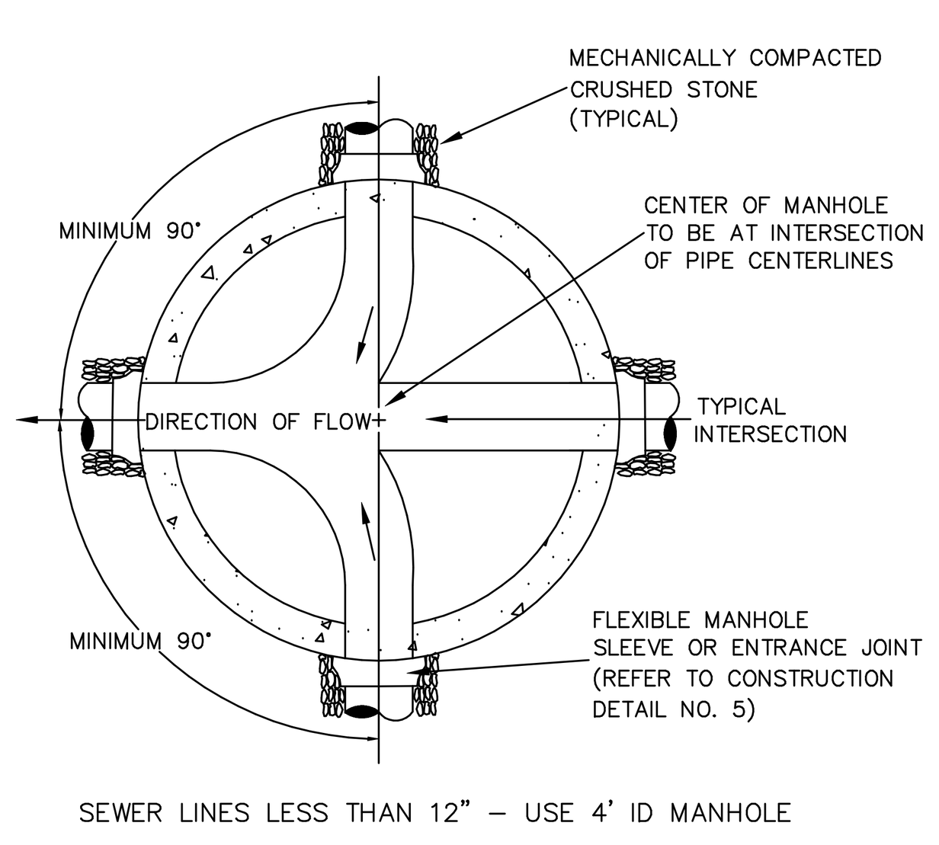
TYPICAL OUTSIDE DROP MANHOLE

DETAIL 4.3D NOT TO SCALE



PRECAST MANHOLE (DOGHOUSE) OVER EXISTING SEWER

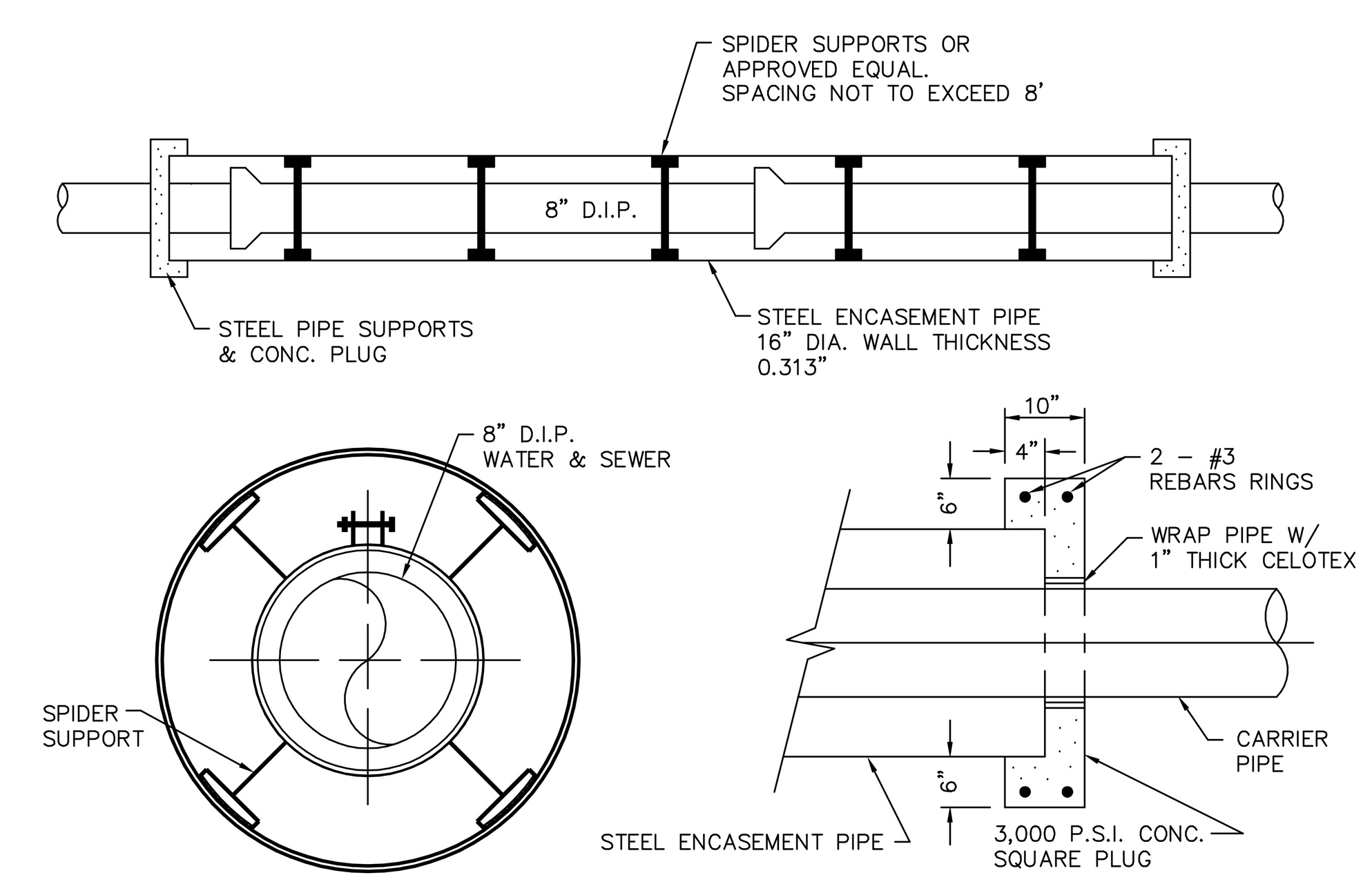
DETAIL 4.3C NOT TO SCALE



PLAN OF MANHOLE INVERTS

(Note: Shape All Inverts & Trowel Smooth)

DETAIL 4.3E NOT TO SCALE



SIZE OF D.I. CARRIER PIPE	SIZE OF STEEL CASING PIPE	COATED PIPE MIN. WALL THK.	PIPE CLASS
2"	6"	0.188	STANDARD
4"	12"	0.188	ASTM A139, GRADE B
6"	14"	0.188	ASTM A139, GRADE B
8"	16"	0.250	ASTM A139, GRADE B

NOTE:
NON-COATED AND SAID CASING IS NOT CATHODICALLY PROTECTED. THE WALL THICKNESS SHALL BE INCREASED TO THE NEAREST STANDARD SIZE WHICH IS A MIN. OF 0.063" GREATER THAN THE THICKNESS SHOWN EXCEPT FOR DIAMETERS UNDER 12 3/4".

BORING ENCASEMENT DETAIL (FOR WATER & SEWER LINES)

DETAIL 4.3H NOT TO SCALE

SCDHEC STANDARD NOTES: SPARTANBURG COUNTY VERSION

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   * WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   * WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND ERSION CONTROL DEVICES SHALL BE INSPECTED ONCE CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF INDENTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATA OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORALITY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASINS, FILTER BAG, ETC.).
16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   * WASHWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   * WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   * FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   * SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY SPARTANBURG COUNTY AND SCDHEC.
21. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVED LETTER FROM SCDHEC BEFORE CALLING SPARTANBURG COUNY AT 864-595-5320 TO SCHEDULE THIS MEETING.

SCDHEC & COUNTY STANDARD NOTES

mcmillan pazdan smith
ARCHITECTURE

BAI
BLACKWOOD ASSOCIATES INC.
CONSULTING ENGINEERS
PO BOX 366
SPARTANBURG, SC 29304
864-583-5432 <> FAX-583-5434

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	WAB
C	06/01/22	GMP SET	WAB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB/ELO

SHEET TITLE:

SITE DETAILS

SHEET NO. PROJ. NO. 020420.00

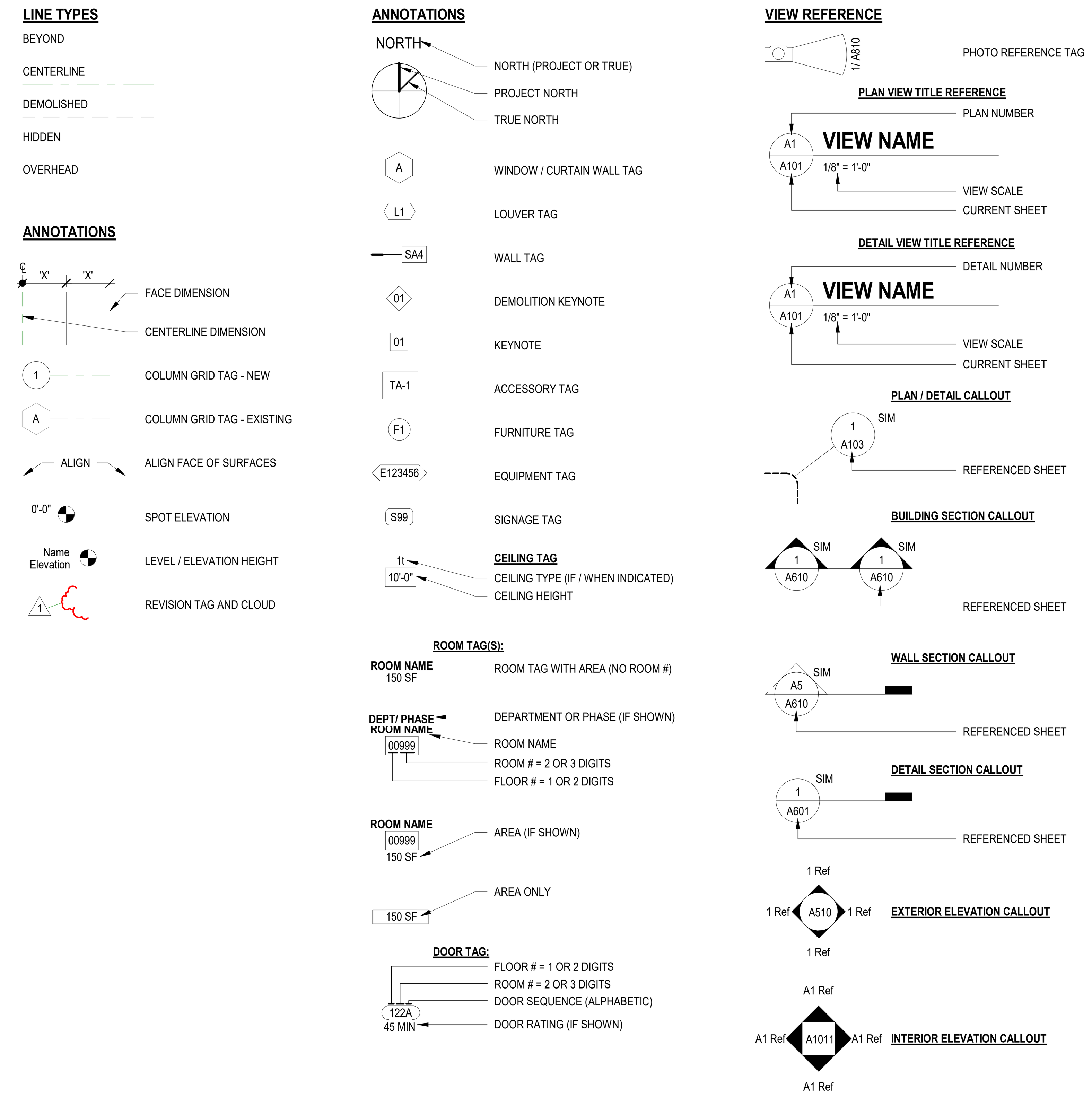
CV4.3

ABBREVIATION NOTES:

1. ABBREVIATIONS LISTED BELOW APPLY TO THE ARCHITECTURAL DRAWINGS ONLY, REFER TO CONSTRUCTION DOCUMENTS PREPARED BY MPS CONSULTANTS FOR ABBREVIATIONS USED.
2. REFER TO FINISH SCHEDULE FOR FINISH MATERIAL ABBREVIATIONS NOT SHOWN.

A/C	AIR CONDITION
A/E	ARCHITECT/ENGINEER
ABAN	ABANDON
ABRSV	ABRASIVE
ACC	ACCESSIBLE
ACST INSUL	ACOUSTICAL INSULATION
ACST PNL	ACOUSTICAL PANEL
ACP	AUTOMATIC CONTROL PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT or ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASD	AUTOMATIC SPRINKLER DRAIN
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION
ASSN	ASSOCIATION
AVG	AVERAGE
BAT	BATTEN
BD	BOARD
BD FT	BOARD FEET (FOOT)
BDRY	BOUNDARY
BF	BOTH FACES
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BLKHD	BULKHEAD
BLKT	BLANKET
BN	BULLNOSE
B/STL	BOTTOM OF STEEL
BOT	BOTTOM
BSMT	BASEMENT
BTWN	BETWEEN
BYP	BY PASS
CAB	CABINET
CANTIL	CANTILEVER
CB	CORNER BEAD
CCTV	CLOSED CIRCUIT TELEVISION
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CH BD	CHALKBOARD
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT\ CONTROL JOINT
C/L	CENTER LINE
CLDG	CLADDING
CLG	CEILING
CLR	CLEAR
CLT	CLEAT
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNCL	CONCEALED
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONF	CONFERENCE
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL PANEL
CSB	CONCRETE SPLASH BLOCK
DBL	DOUBLE
DEMO	DEMOLITION/DEMOLISH
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DMPF	DAMPPROOFING
DPTN	DEMOUNTABLE PARTITION
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DSPL	DISPOSAL
DW	DISHWASHER
EA	EACH
EC	EDGE OF CURB
EFS	EXTERIOR FINISH SYSTEM
EG	EDGE GRAIN
EGB	EXTERIOR GYPSUM WALL BOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EFG	ENTRANCE FLOOR GRILLE
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELEM	ELEMENTARY
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EP	EXPOXY PAINT
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERD	EXISTING ROOF DRAIN
ESCAL	ESCALATOR
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDCC	FIRE DEPARTMENT CONNECTION CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FH	FIRE HOSE/ FIRE HYDRANT
FIN	FINISH
FIN GR	FINISH GRADE
FIXT	FIXTURE
FL	FLOORLINE
FO	FINISHED OPENING
FOC	FACE OF CONCRETE/ FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRG	FIBER REINFORCED GYPSUM
FURN	FURNITURE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDR	GUARD RAIL
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GFRP	GLASS-FIBER-REINFORCED PLASTER
GFRP	GLASS-FIBER-REINFORCED PLASTIC
GL	GLASS/GLAZING
GMP	GUARANTEED MAXIMUM PRICE
GR	GROUT
GRAN	GRANITE
GT	GREASE TRAP
GYP BD	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HANDICAPPED
HCWD	HOLLOW CORE WOOD DOOR
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
ID	INSIDE DIAMETER/ INSIDE DIMENSION
INSUL	INSULATION
INSUL PNL	INSULATED METAL PANEL
JAN	JANITOR
JT	JOINT
KD	KNOCKED DOWN
KPL	KICKPLATE
LAM	LAMINATE
LAM GL	LAMINATED GLASS
LAV	LAVATORY
LCD	LINEAR CEILING DIFFUSER
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LDG	LANDING
LDR	LEADER
LF	LINEAR FEET (FOOT)
LOS	LINE OF SIGHT
LVDR	LOUVER DOOR
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
MAINT	MAINTENANCE
MAX	MAXIMUM
MC	METAL-CLAD
MCB	METAL CORNER BEAD
MED	MEDICAL
MEL	MELAMINE
MEZZ	MEZZANINE
MF	MILL FINISH
MID	MIDDLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
MOD BIT	MODIFIED BITUMEN
MOPR	MOP RACK
MR	MOISTURE RESISTANT
MTL	METAL
MW	MICROWAVE
MWP	MEMBRANE WATERPROOFING
N/A	NOT APPLICABLE
NCOMBL	NONCOMBUSTIBLE
NIC	NOT IN CONTRACT
NLB	NONLOADBEARING
NO	NUMBER
NOM	NOMINAL
NTP	NOTICE TO PROCEED
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OFS	OUTSIDE FACE OF STUDS
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
PAT	PATTERN
PBD	PARTICLEBOARD
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PGBD	PEGBOARD
PJ	PANEL JOINT
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
PORC	PORCELAIN
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PT	PRESSURE TREATED
PTD	PAINT
R	RADIUS
RADN	RADIATION
RB	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BARS
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RESIL	RESILIENT
RESP	RESIN PANEL
RFG	ROOFING
RH	ROOF HATCH
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
RTF	RUBBER TILE FLOOR
RTU	ROOF TOP UNIT
RV	ROOF VENT
RVL	REVEAL
SB	SPLASH BLOCK
SBSTR	SUBSTRATE
SCHED	SCHEDULE
SCRN	SCREEN
SD	SMOKE DETECTOR
SHR	SHOWER
SHRD	SHOWER DRAIN
SIM	SIMILAR
SP	STANDPIPE
SPEC	SPECIFICATION(S)
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ FT	SQUARE FOOT
SS	SOLID SURFACE
SST	STAINLESS STEEL
ST	STAIR(S)
STC	SOUND TRANSMISSION CLASS
STOR	STORAGE
STN	STAIN
SUSP CLG	SUSPENDED CEILING
SYMM	SYMMETRICAL
TBD	TO BE DETERMINED
T&G	TONGUE AND GROOVE
TD	TRENCH DRAIN
TEMP	TEMPORARY
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
THRU	THROUGH
TLT	TOILET
T/	TOP OF
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB\ TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TRS (or TR)	TRANSITION STRIP
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WF	WASH FOUNTAIN
WH	WATER HEATER
WHSE	WAREHOUSE
WP	WALL PROTECTION
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)

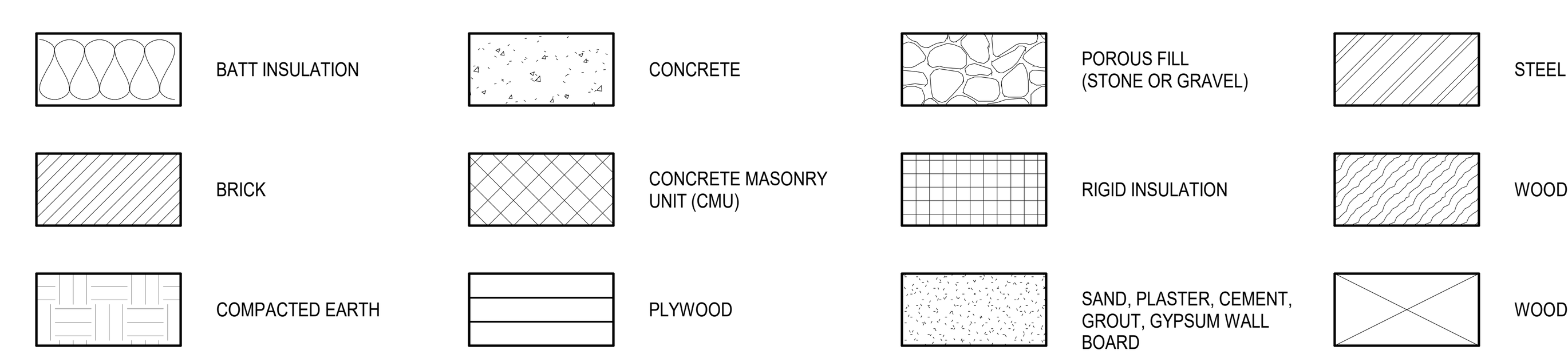
ABBREVIATIONS LIST



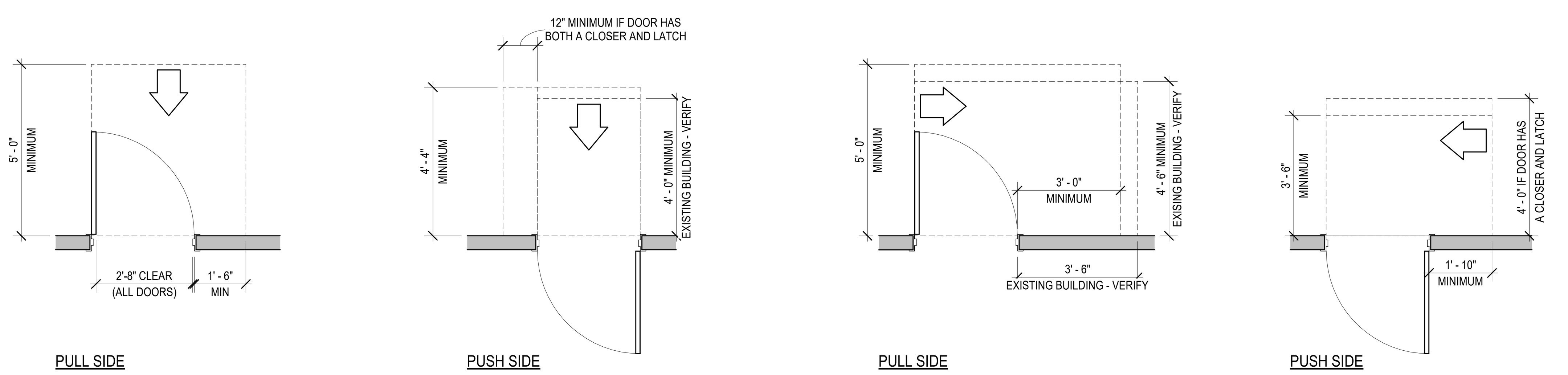
STANDARD GRAPHICS AND SYMBOLS

NOTE:

1. ALL DIMENSIONS SHOWN ARE MINIMUMS.
2. DIMENSIONS AND CLEARANCES SHOWN MUST BE PROVIDED AT ALL DOORS CONTRACTOR SHALL REVIEW FIELD LAYOUT AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTORS EXPENSE.

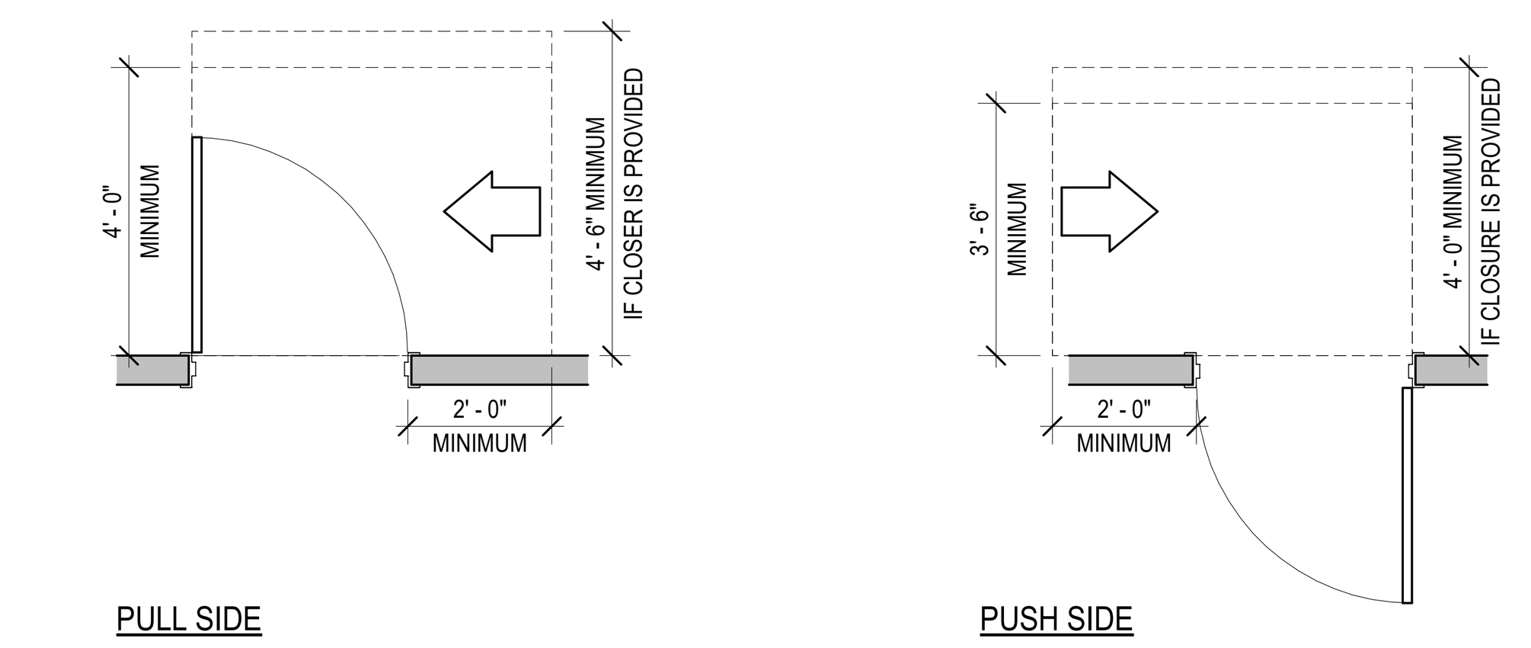


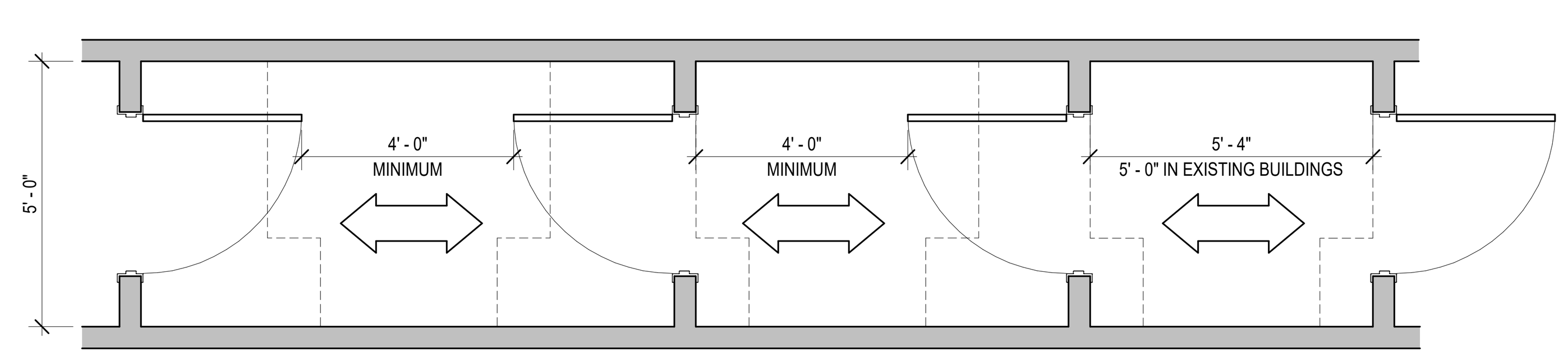
TYPICAL MATERIALS



FRONT APPROACHES

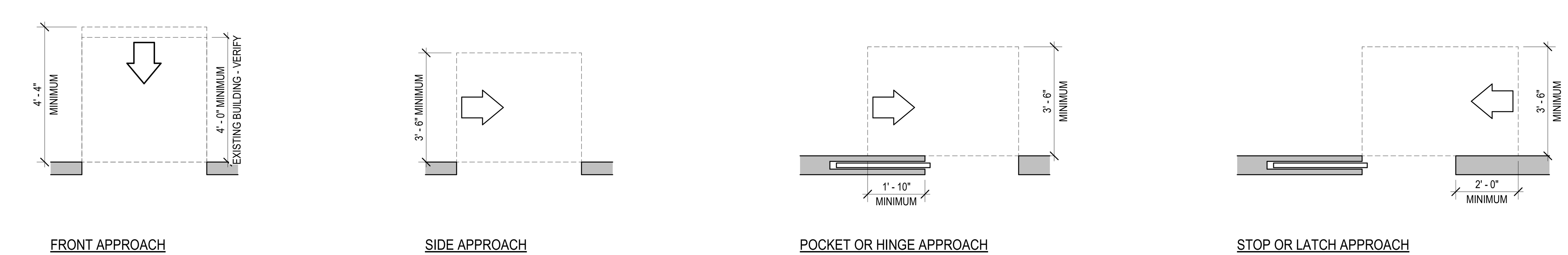
HINGE SIDE APPROACHES





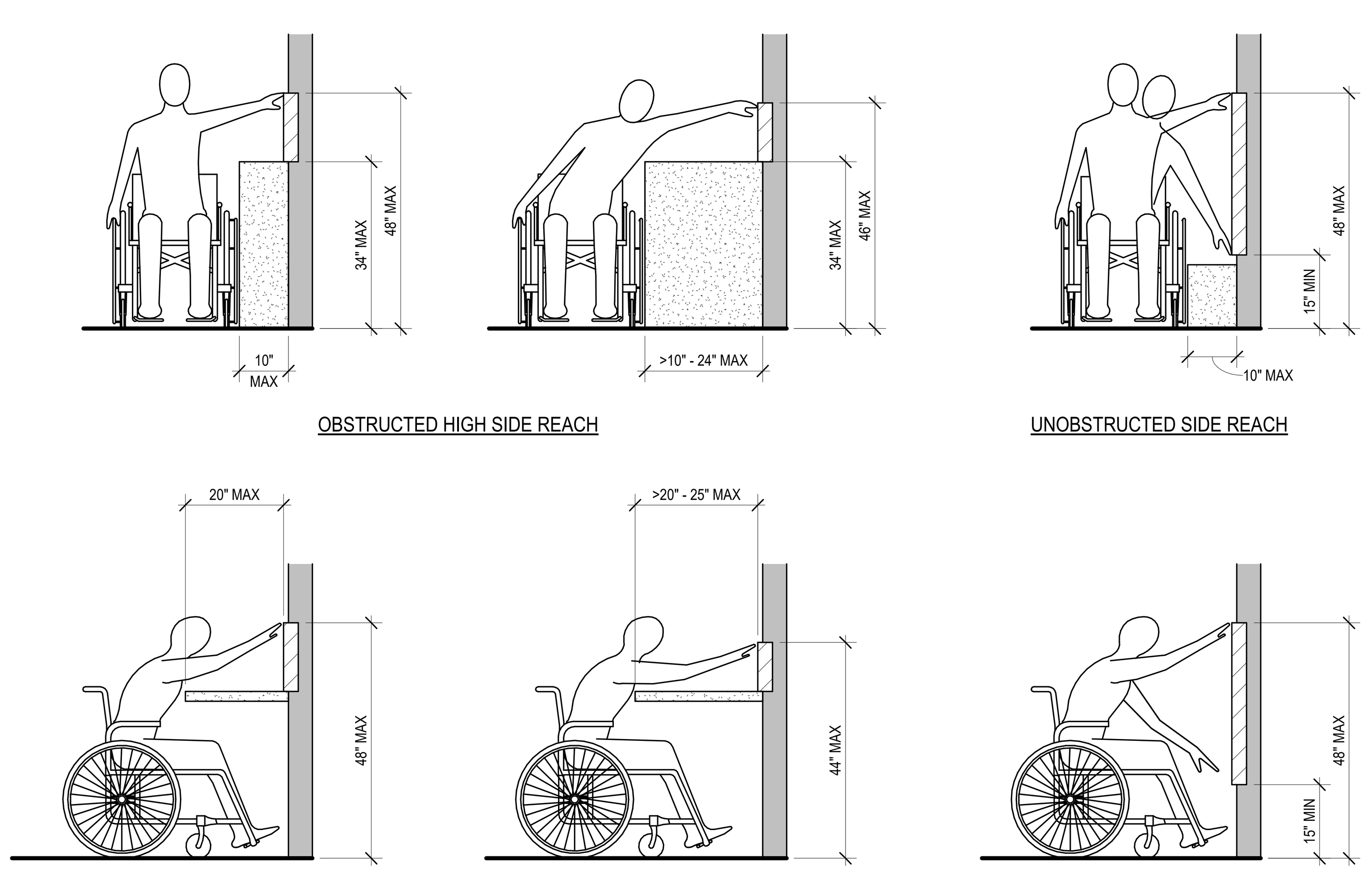
LATCH SIDE APPROACHES

DOORS IN A SERIES



DOORWAY W/O DOORS, SLIDING DOORS, AND FOLDING DOORS

MPS MANEUVERING CLEARANCES AT DOORS (ICC/ANSI-2017)



REACH RANGES

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

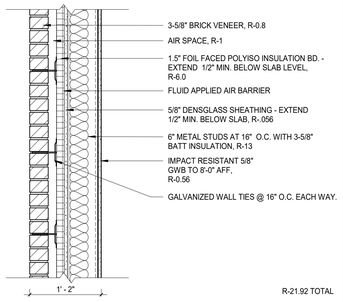
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CM

SHEET TITLE:
ABBREVIATION, SYMBOLS AND LEGENDS

SHEET NO. PROJ. NO. 020420.00

A001

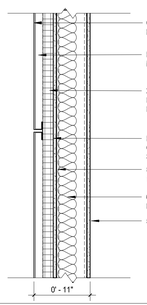
EA



R-21.92 TOTAL

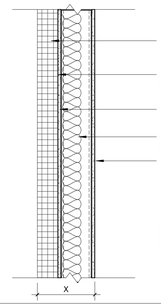
	"WALL AT CL 5 EA	EA-A	-	-	-
STUD SIZE	6"	6"	-	-	-
ACTUAL DIMENSION 'X'	1' - 2"	1' - 2 5/8"*	-	-	-
FIRE RATING	-	-	-	-	-
	-	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	-	-	-	-	-

EB



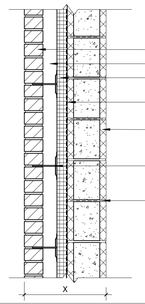
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

EC



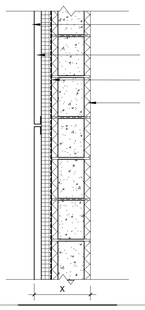
	EC6	-	-	-	-
STUD SIZE	6"	-	-	-	-
ACTUAL DIMENSION 'X'	11 1/4"	-	-	-	-
FIRE RATING	1 HR U499	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	30.12	-	-	-	-

ED



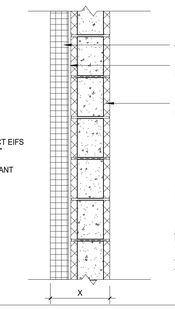
	ED8	ED12	-	-	-
CMU SIZE	7 5/8"	11 5/8"	-	-	-
ACTUAL DIMENSION 'X'	1' - 4"	1' - 8"	-	-	-
FIRE RATING	-	-	-	-	-
	-	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	-	-	-	-	-

EE



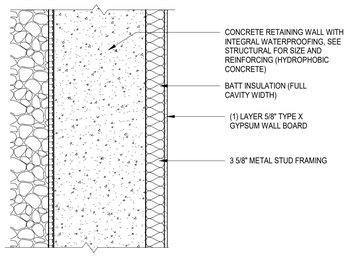
	EE8	EE12	-	-	-
CMU SIZE	7 5/8"	11 5/8"	-	-	-
ACTUAL DIMENSION 'X'	11"	1' - 3"	-	-	-
FIRE RATING	-	-	-	-	-
	-	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	-	-	-	-	-

EF



	EF8	EF12	-	-	-
CMU SIZE	7 5/8"	11 5/8"	-	-	-
ACTUAL DIMENSION 'X'	1' - 0"	1' - 4"	-	-	-
FIRE RATING	U904	-	-	-	-
	-	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	-	-	-	-	-

EG



	-	-	-	-	-
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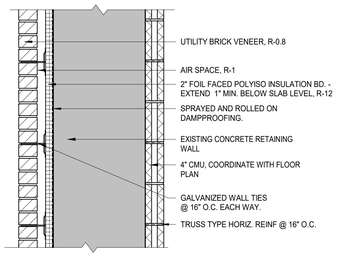
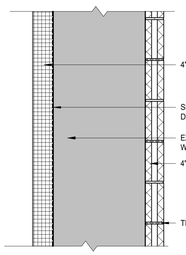
	-	-	-	-	-

EH



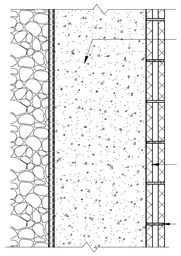
EXISTING CONCRETE RETAINING WALL WITH INSULATION AND BRICK VENEER AT BASEMENT LEVEL

EI

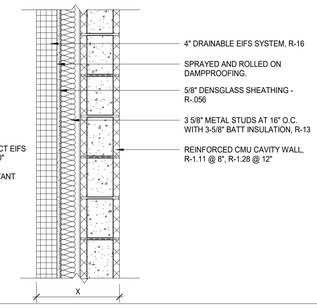


EXISTING CONCRETE RETAINING WALL WITH INSULATION AND BRICK VENEER AT BASEMENT LEVEL

EJ

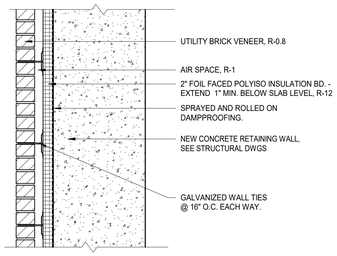


EK



	EK8	-	-	-	-
CMU SIZE	7 5/8"	-	-	-	-
ACTUAL DIMENSION 'X'	1' - 4 1/4"	-	-	-	-
FIRE RATING	U904	-	-	-	-
	-	-	-	-	-
ACOUST. RATING(HOLLOW/SOLID)	-	-	-	-	-

EL



GENERAL PARTITION NOTES

A. PLAN DIMENSIONS ARE FACE OF STUD, CMU OR FINISH FACE OF EXISTING WALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE.
B. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
C. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS.
D. PROVIDE TYPE X, MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL TOILET AND JANITOR ROOMS.
E. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
F. PROVIDE IMPACT RESISTANT GYPSUM WALL BOARD UP TO 4'-0" IN ALL LOBBIES, CORRIDORS, AND STAIRWELLS.
G. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS, PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES.
H. ANY PORTION OF GYPSUM WALL BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM WALL BOARD.
I. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
J. PROVIDE PROJECT SPECIFIC DELEGATED DESIGN DATA INCLUDING STUD SPACING, STUD GAUGE,BRACING AND DEFLECTION.
K. SOUND ATTENUATION BLANKET IS REQUIRED AT ALL INTERIOR PARTITIONS AND SHALL RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE. SOUND ATTENUATION BATT SHALL BE AS FOLLOWS:
   a. FIRE RESISTANT PARTITIONS: MINERAL WOOL SOUND ATTENUATION FIRE BLANKET (SAFB) - FULL STUD DEPTH
   b. NON-RATED PARTITIONS: UNFACED FIBERGLASS SOUND ATTENUATION BATTS (SAB) - FULL STUD DEPTH
L. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS (UNLESS OTHERWISE NOTED).
M. COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, LCD MONITORS, AND TOILET PARTITIONS.
N. INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.

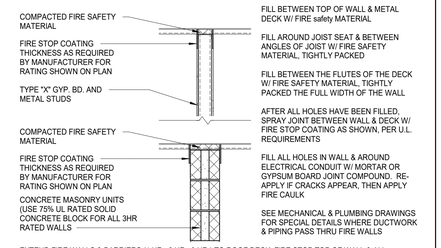
CONTROL JOINT NOTES

GYPSUM WALL BOARD:

LOCATE CONTROL JOISTS AS FOLLOWS:

A. PROVIDE CONTROL JOINTS IN WIDTHS NO GREATER THAN 30'-0" OC, BUT NO LESS THAN 16'-0".
B. INSTALL CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.
C. SUBMIT CONTROL JOINT LOCATION PLAN TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
D. PROVIDE CONTROL JOINTS ABOVE DOOR JAMBS WHENEVER POSSIBLE.
E. STAGGER JOINTS FOR ALL RATED WALLS WITH MULTIPLE LAYERS OF GYPSUM WALL BOARD.

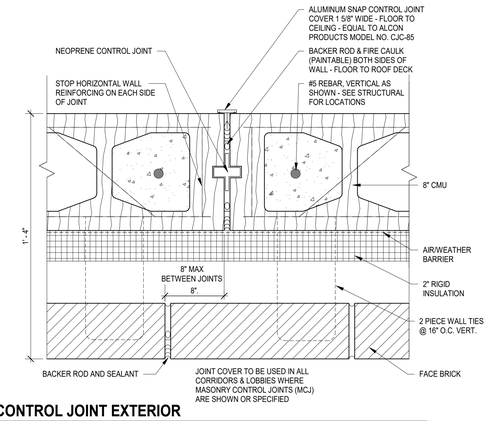
FIRE STOPPING DETAILS



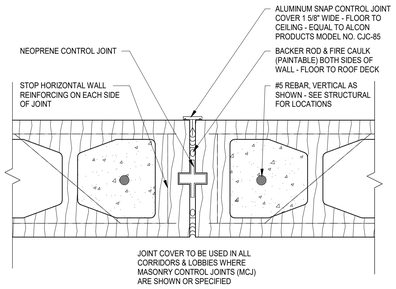
EXTEND FIRE WALLS & BARRIERS (1 HR , 2 HR , 3 HR) TO ROOF DECK, FIRE STOP TOP OF WALL & ALL OPENINGS THRU WALL AS DETAILED & NOTED ABOVE.

ONE HOUR FIRE PARTITION PROTECT ALL OPENINGS	ONE HOUR FIRE BARRIER PROTECT ALL OPENINGS	THREE HOUR FIRE WALL PROTECT ALL OPENINGS

STENCIL THE ABOVE SIGN ON ALL FIRE PARTITIONS, BARRIERS AND FIRE WALLS, BOTH SIDES. LOCATE SIGNS ON 30 FOOT CENTERS CONNECTED BY A CONTINUOUS 1 INCH WIDE RED LINE. IN LIEU OF THE CONNECTING LINE, STENCIL SIGNS ON 15 FOOT CENTERS. LETTERS TO BE 4" TALL.

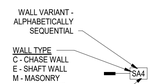


CMU CONTROL JOINT EXTERIOR



CMU CONTROL JOINT INTERIOR

WALL TAG LEGEND



FURRING	STEEL STUD	WOOD STUD	SHAFT WALL	MASONRY
L - LAMINATED	1 - 1 5/8" STUD	2 - 1 1/2" NAILER	2 - 2 1/2" CH STUD	4 - 4" CMU
0 - 7/8" HAT	2 - 2 1/2" STUD	4 - 1 3/4" x 3 1/2" STUD	4 - 4" CH STUD	6 - 6" CMU
1 - 1 1/2" HAT	3 - 3 5/8" STUD	6 - 1 3/4" x 5 1/2" STUD	6 - 6" CH STUD	8 - 8" CMU
	4 - 4" STUD	8 - 1 3/4" x 7 1/2" STUD		
	6 - 6" STUD	12 - 1 3/4" x 11 1/4" STUD		
	8 - 8" STUD			

WALL FRAMING PRIORITY

A. PARTITIONS SHALL BE PRIORITIZED BASED ON FIRE AND SMOKE RATING.
B. PARTITIONS SHALL BE CONSTRUCTED SUCH THAT HIGHER PRIORITY IS FRAMED BEFORE LOWER PRIORITY.
C. LOWER PRIORITY PARTITIONS SHALL BE FRAMED TIGHT TO, BUT NOT INTERRUPT HIGHER PRIORITY CONSTRUCTION. (SEE THE EXAMPLE BELOW)

2 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 1 (HIGHEST)
2 HOUR FIRE RATED	PRIORITY 2
1 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 3
1 HOUR FIRE RATED	PRIORITY 4
NONE RATED	PRIORITY 5 (LOWEST)

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

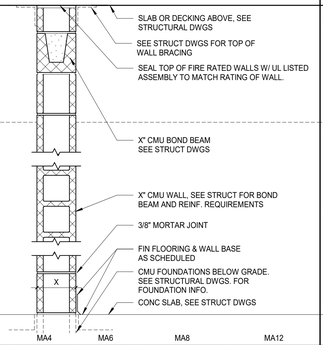
SHEET TITLE:

PARTITION TYPES - EXTERIOR

SHEET NO. A002

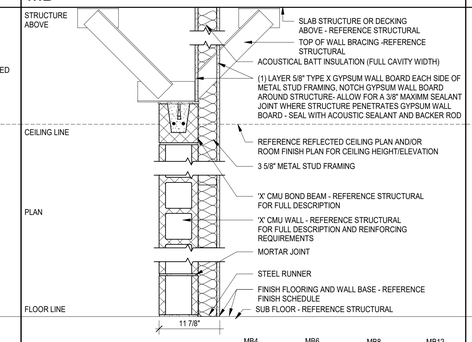
PROJ. NO. 020420.00

MA



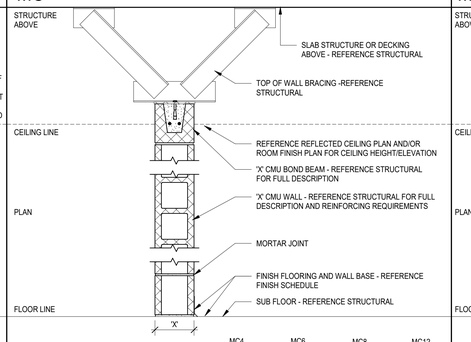
	MA4	MA6	MA8	MA12
CMU SIZE	3 5/8"	5 5/8"	7 5/8"	11 5/8"
ACTUAL DIMENSION "X"	3 5/8"	5 5/8"	7 5/8"	11 5/8"
FIRE RATING			1-HR/2-HR (UL #U905) 3-HR (UL #U904)	1-HR/2-HR (UL #U905) 3-HR (UL #U904)
ACOUST. RATING(HOLLOW/SOLID)			48 STC - HLW 55 STC - SOLID	49 STC - HLW 55 STC - SOLID

MB



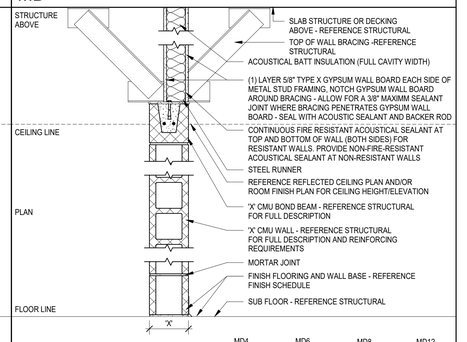
	MB4	MB6	MB8	MB12
CMU SIZE	3 5/8"	5 5/8"	7 5/8"	11 5/8"
ACTUAL DIMENSION "X"	7 7/8"	9 7/8"	11 7/8"	15 7/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

MC



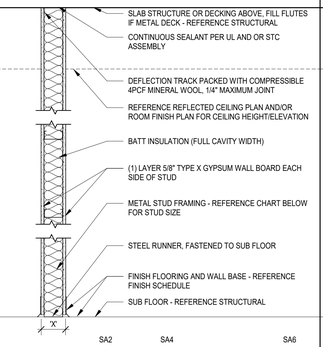
	MC4	MC6	MC8	MC12
CMU SIZE	3 5/8"	5 5/8"	7 5/8"	11 5/8"
ACTUAL DIMENSION "X"	3 5/8"	5 5/8"	7 5/8"	11 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

MD



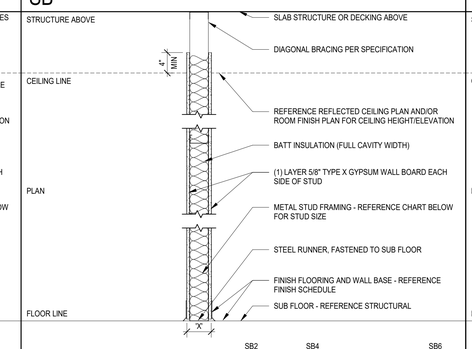
	MD4	MD6	MD8	MD12
CMU SIZE	3 5/8"	5 5/8"	7 5/8"	11 5/8"
ACTUAL DIMENSION "X"	3 5/8"	5 5/8"	7 5/8"	11 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

SA



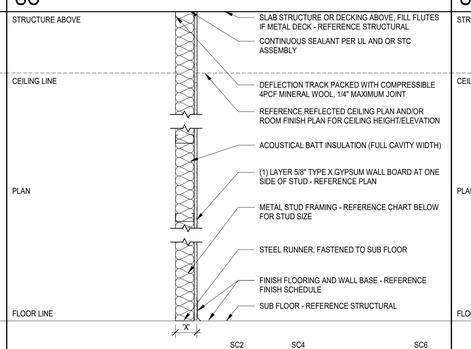
	SA2	SA4		SA6
STUD SIZE	2 1/2"	3 5/8"		6
ACTUAL DIMENSION "X"	3 3/4"	4 7/8"		7 1/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -		- -
ACOUSTICAL RATING	- -	- -		- -

SB



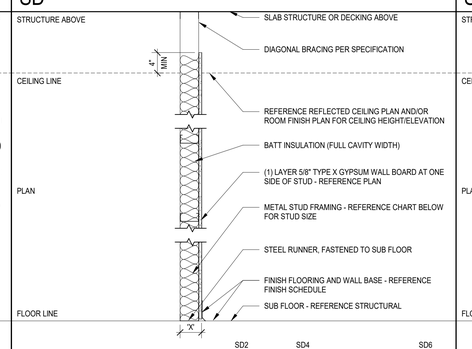
	SB2	SB4		SB6
STUD SIZE	2 1/2"	3 5/8"		6
ACTUAL DIMENSION "X"	3 3/4"	4 7/8"		7 1/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -		- -
ACOUSTICAL RATING	- -	- -		- -

SC



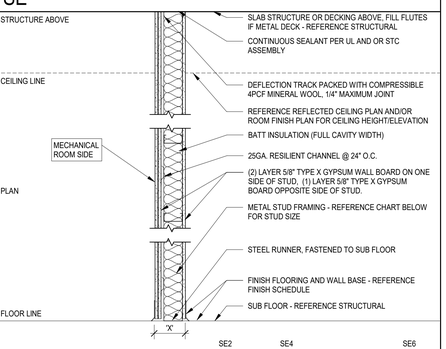
	SC2	SC4		SC6
STUD SIZE	2 1/2"	3 5/8"		6
ACTUAL DIMENSION "X"	3 1/8"	4 1/4"		6 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -		- -
ACOUSTICAL RATING	- -	- -		- -

SD



	SD2	SD4		SD6
STUD SIZE	2 1/2"	3 5/8"		6
ACTUAL DIMENSION "X"	3 1/8"	4 1/4"		6 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -		- -
ACOUSTICAL RATING	- -	- -		- -

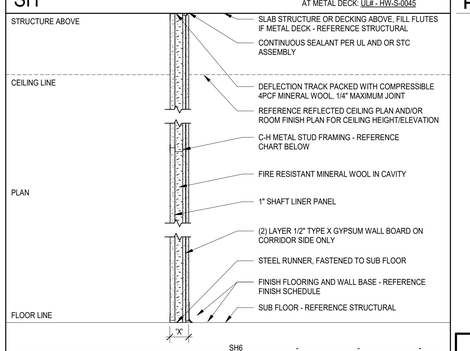
SE



	SE2	SE4		SE6
STUD SIZE	2 1/2"	3 5/8"		6
ACTUAL DIMENSION "X"	4 7/8"	6"		8 3/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -		- -
ACOUSTICAL RATING	- -	- -		- -

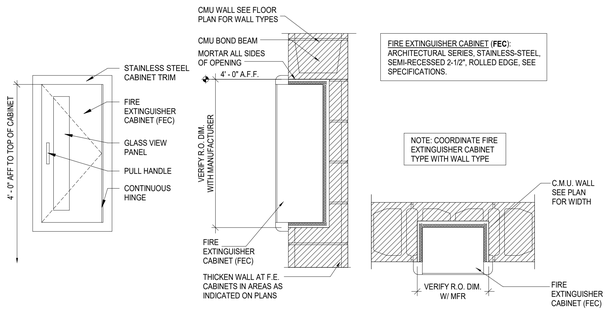
SH

SEAL TOP OF FIRE RESISTANT WALLS AS FOLLOWS:
AT METAL DECK: UL# - HW-S-0045

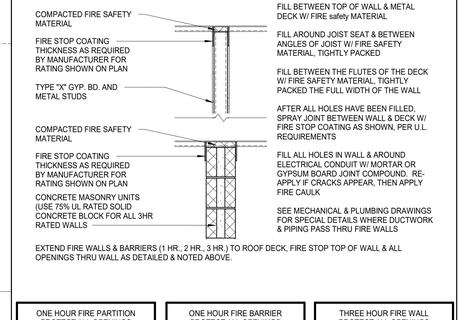


	SH6	-	-	-
STUD SIZE	6"	-	-	-
ACTUAL DIMENSION "X"	7"	-	-	-
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	2-HR (UL #U428)	- -	- -	- -

FIRE EXTINGUISHER CABINET DETAILS



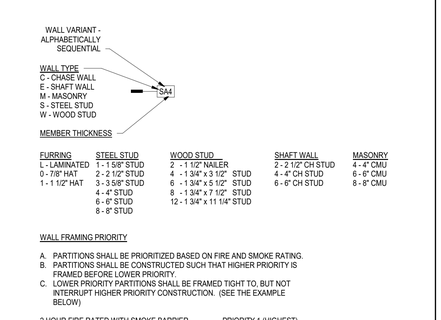
FIRE STOPPING DETAILS



ONE HOUR FIRE PARTITION PROTECT ALL OPENINGS	ONE HOUR FIRE BARRIER PROTECT ALL OPENINGS	THREE HOUR FIRE WALL PROTECT ALL OPENINGS

STENCIL THE ABOVE SIGN ON ALL FIRE PARTITIONS, BARRIERS AND FIRE WALLS, BOTH SIDES. LOCATE SIGNS ON 30 FOOT CENTERS CONNECTED BY A CONTINUOUS 1 INCH WIDE RED LINE. IN LIEU OF THE CONNECTING LINE, STENCIL SIGNS ON 15 FOOT CENTERS. LETTERS TO BE 4" TALL.

WALL TAG LEGEND



FURRING	STEEL STUD	WOOD STUD	SHAFT WALL	MASONRY
L - LAMINATED	1 - 1 5/8" STUD	2 - 1 1/2" NAILER	2 - 2 1/2" CH STUD	4 - 4" CMU
0 - 7/8" HAT	2 - 2 1/2" STUD	4 - 1 3/4" x 3 1/2" STUD	4 - 4" CH STUD	6 - 6" CMU
1 - 1 1/2" HAT	3 - 3 5/8" STUD	6 - 1 3/4" x 5 1/2" STUD	6 - 6" CH STUD	8 - 8" CMU
	4 - 4" STUD	8 - 1 3/4" x 7 1/2" STUD		
	6 - 6" STUD	12 - 1 3/4" x 11 1/4" STUD		
	8 - 8" STUD			

WALL FRAMING PRIORITY

A. PARTITIONS SHALL BE PRIORITIZED BASED ON FIRE AND SMOKE RATING.
B. PARTITIONS SHALL BE CONSTRUCTED SUCH THAT HIGHER PRIORITY IS FRAMED BEFORE LOWER PRIORITY.
C. LOWER PRIORITY PARTITIONS SHALL BE FRAMED TIGHT TO, BUT NOT INTERRUPT HIGHER PRIORITY CONSTRUCTION. (SEE THE EXAMPLE BELOW)

2 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 1 (HIGHEST)
2 HOUR FIRE RATED	PRIORITY 2
1 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 3
1 HOUR FIRE RATED	PRIORITY 4
NONE RATED	PRIORITY 5 (LOWEST)

GENERAL PARTITION NOTES

A. PLAN DIMENSIONS ARE FACE OF STUD, CMU OR FINISH FACE OF EXISTING WALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE.
B. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
C. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS.
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E. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
F. PROVIDE IMPACT RESISTANT GYPSUM WALL BOARD UP TO 4'-0" IN ALL LOBBIES, CORRIDORS, AND STAIRWELLS.
G. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS: PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES.
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I. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
J. PROVIDE PROJECT SPECIFIC DELEGATED DESIGN DATA INCLUDING STUD SPACING, STUD GAUGE,BRACING AND DEFLECTION.
K. SOUND ATTENUATION BLANKET IS REQUIRED AT ALL INTERIOR PARTITIONS AND SHALL RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE. SOUND ATTENUATION BATT SHALL BE AS FOLLOWS:
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L. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS (UNLESS OTHERWISE NOTED).
M. COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, LCD MONITORS, AND TOILET PARTITIONS.
N. INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.

CONTROL JOINT NOTES

GYPSUM WALL BOARD:

LOCATE CONTROL JOISTS AS FOLLOWS:

A. PROVIDE CONTROL JOINTS IN WIDTHS NO GREATER THAN 30'-0" OC, BUT NO LESS THAN 16'-0".
B. INSTALL CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.
C. SUBMIT CONTROL JOINT LOCATION PLAN TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
D. PROVIDE CONTROL JOINTS ABOVE DOOR JAMBS WHENEVER POSSIBLE.
E. STAGGER JOINTS FOR ALL RATED WALLS WITH MULTIPLE LAYERS OF GYPSUM WALL BOARD.

mcmillan pazdan smith
ARCHITECTURE
CONSULTANT LOGO
SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

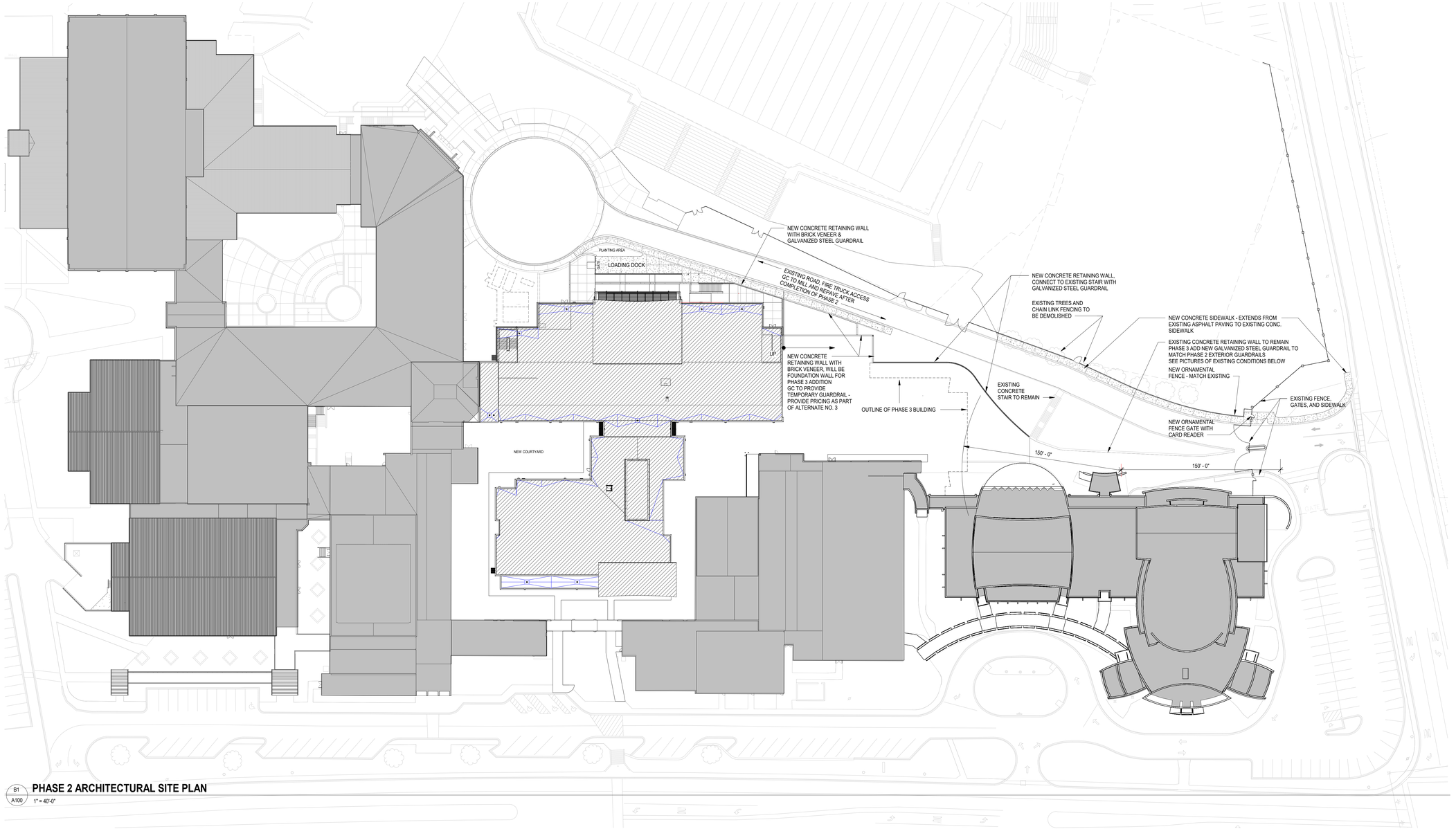
NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CM

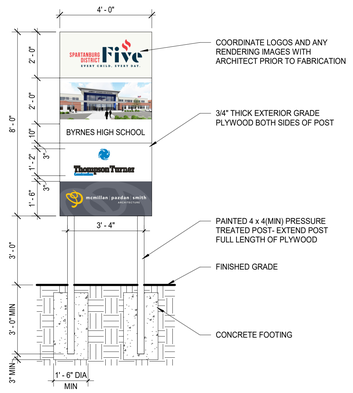
SHEET TITLE:
PARTITION TYPES - INTERIOR

SHEET NO. A003
PROJ. NO. 020420.00



B1 A100 **PHASE 2 ARCHITECTURAL SITE PLAN**

1" = 40'-0"

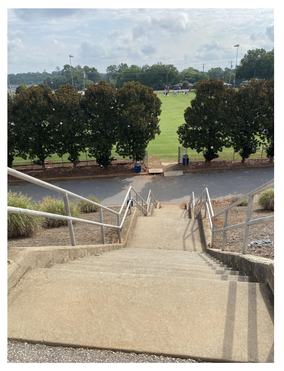


TWO-SIDED SIGN WITH SAME DESIGN ON BOTH SIDES

NOTE: G.C. TO PROVIDE TWO JOB SITE SIGNS. LOCATIONS TO BE DETERMINED.

1 A100 **JOB SITE SIGN**

3/8" = 1'-0"



EXISTING RETAINING WALL AND STAIR CASE

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION

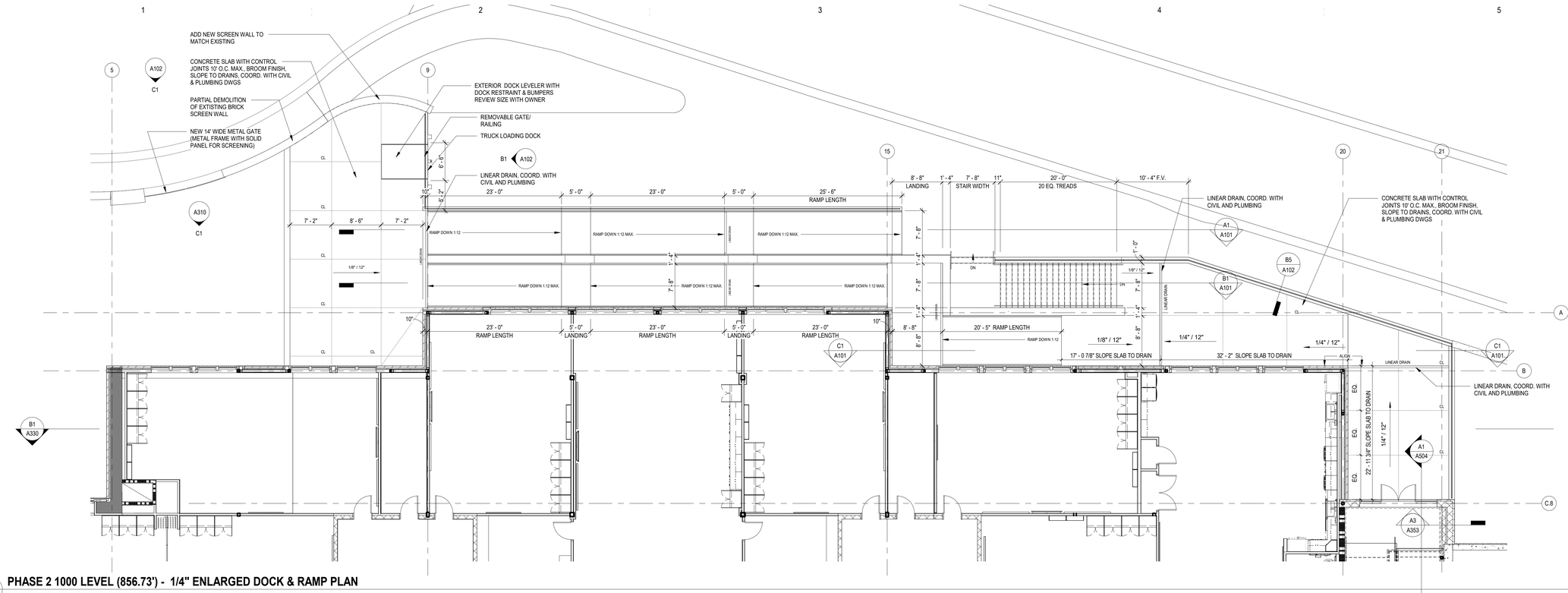
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CM

SHEET TITLE:
ARCHITECTURAL SITE PLAN

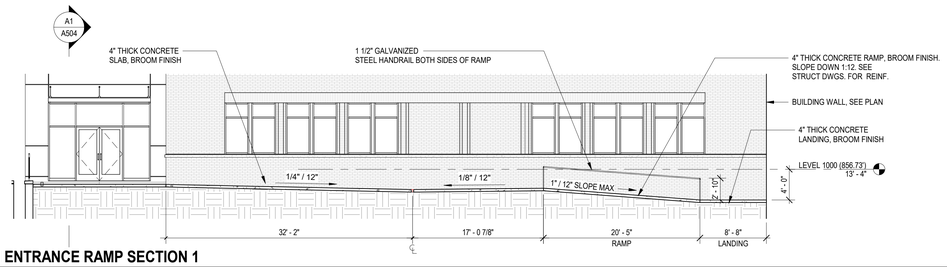
SHEET NO. A100

PROJ. NO. 020420.00



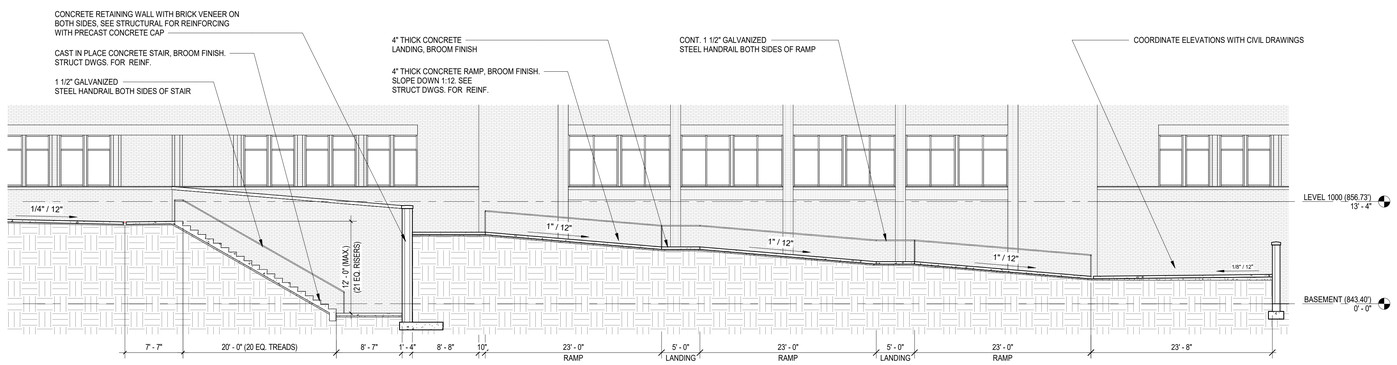
PHASE 2 1000 LEVEL (856.73') - 1/4" ENLARGED DOCK & RAMP PLAN

D1 / A101 — 1/8" = 1'-0"



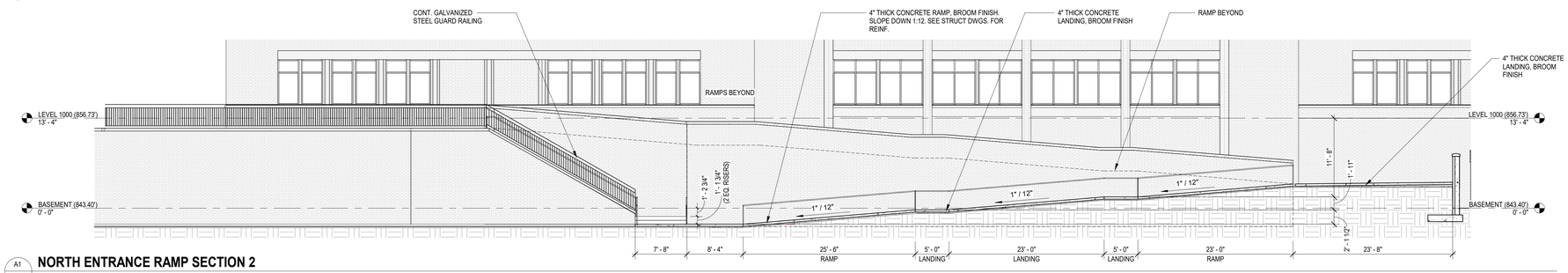
NORTH ENTRANCE RAMP SECTION 1

C1 / A101 — 1/8" = 1'-0"



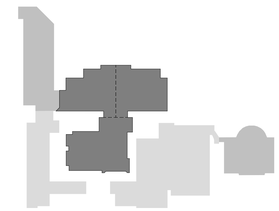
NORTH ENTRANCE RAMP SECTION 3

B1 / A101 — 1/8" = 1'-0"



NORTH ENTRANCE RAMP SECTION 2

A1 / A101 — 1/8" = 1'-0"



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

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FOR PRICING ONLY

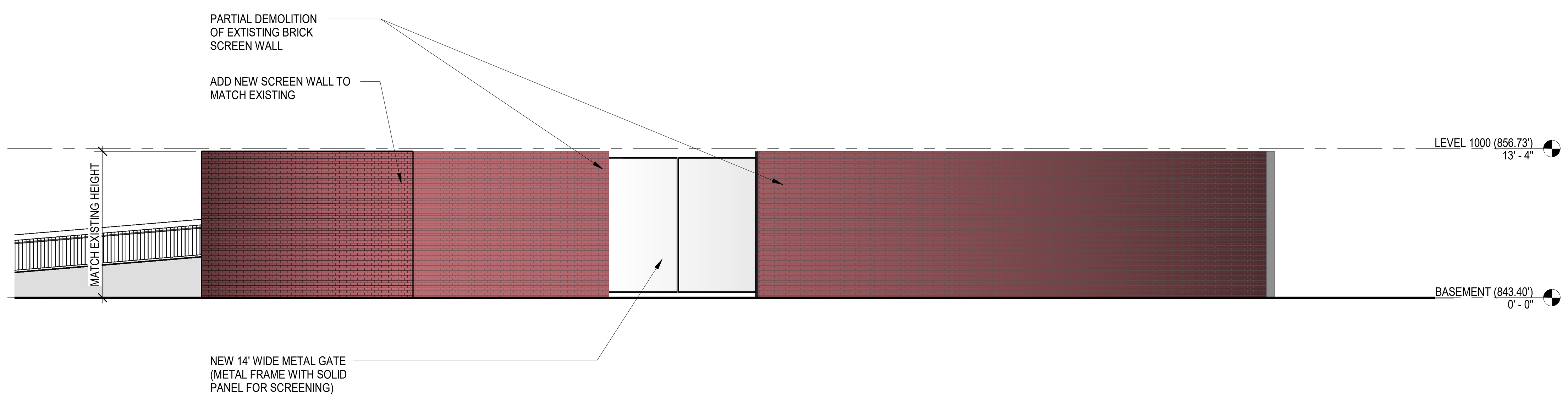
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RJW

SHEET TITLE:
EXTERIOR STAIRS & RAMP

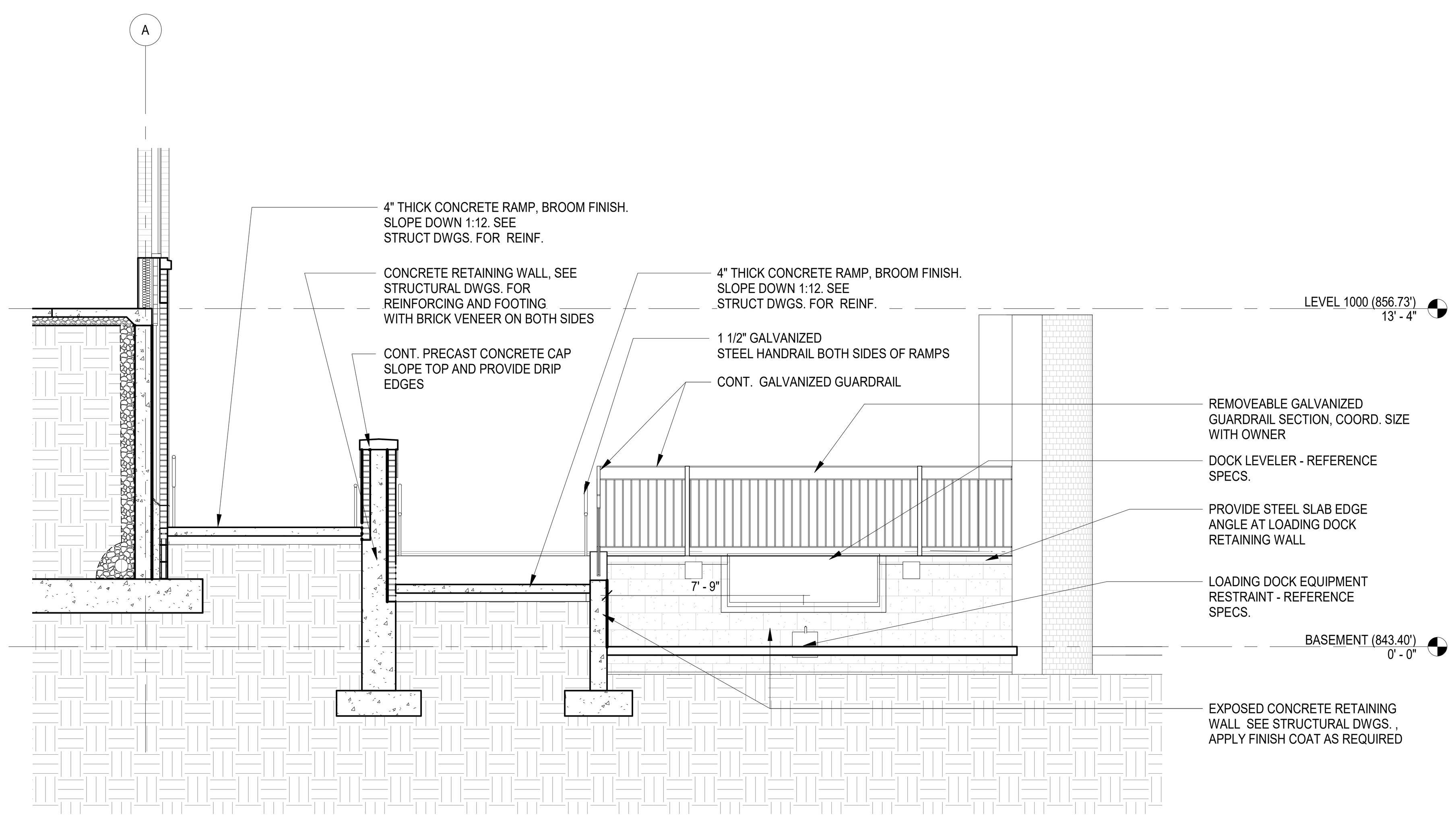
SHEET NO. A101

PROJ. NO. 020420.00



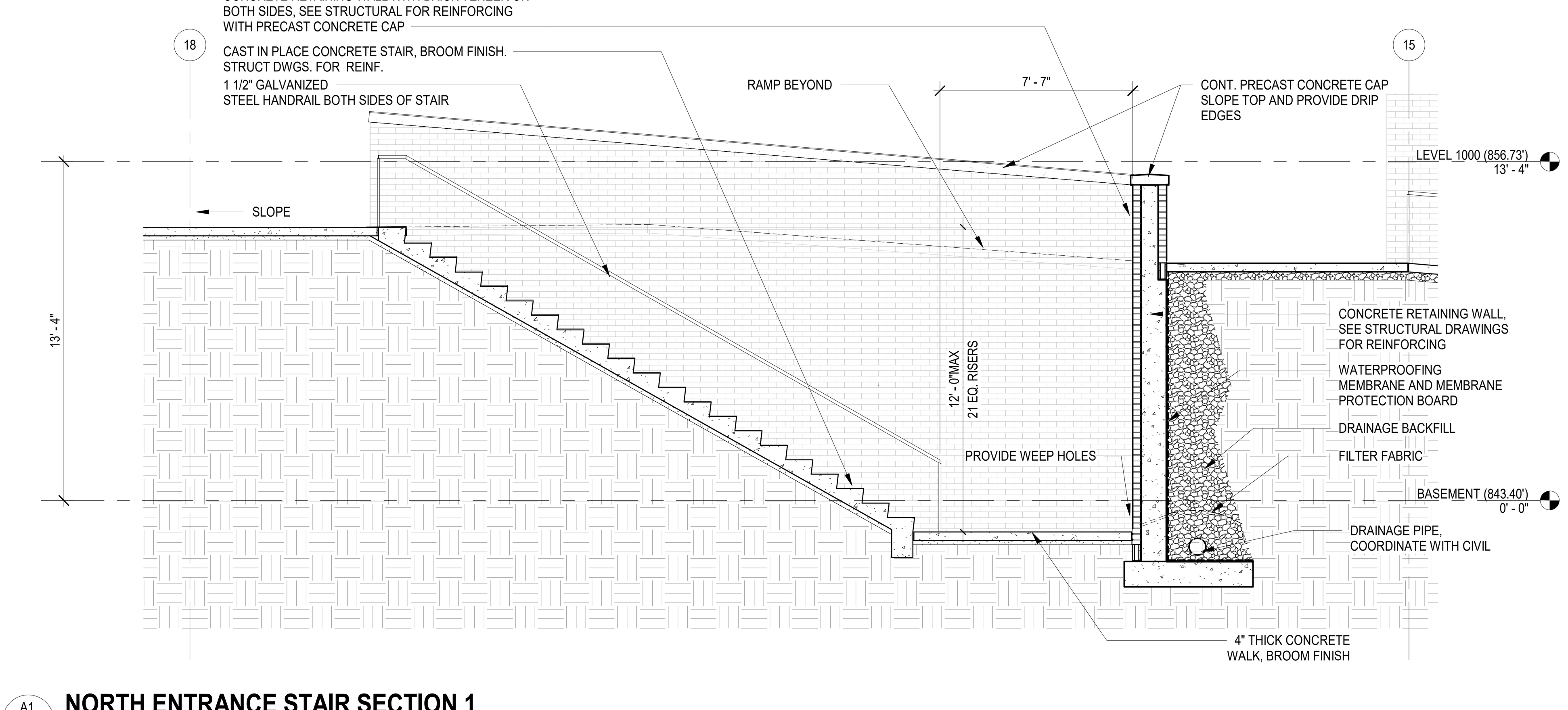
C1 / A102 **EXTERIOR ELEVATION - MECH. COURTYARD WALL**

1/8" = 1'-0"



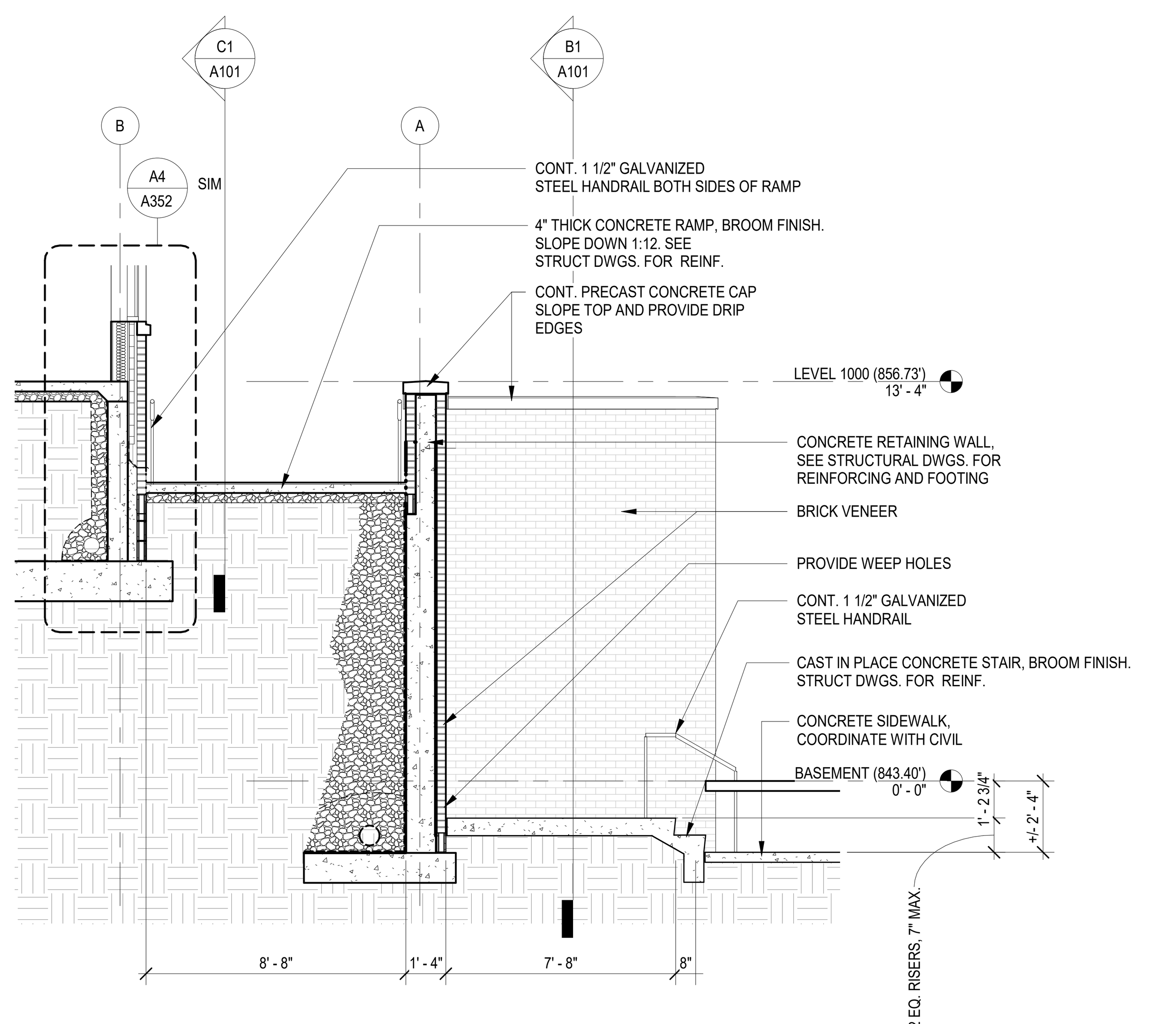
B1 / A102 **DOCK EAST ELEVATION**

1/4" = 1'-0"



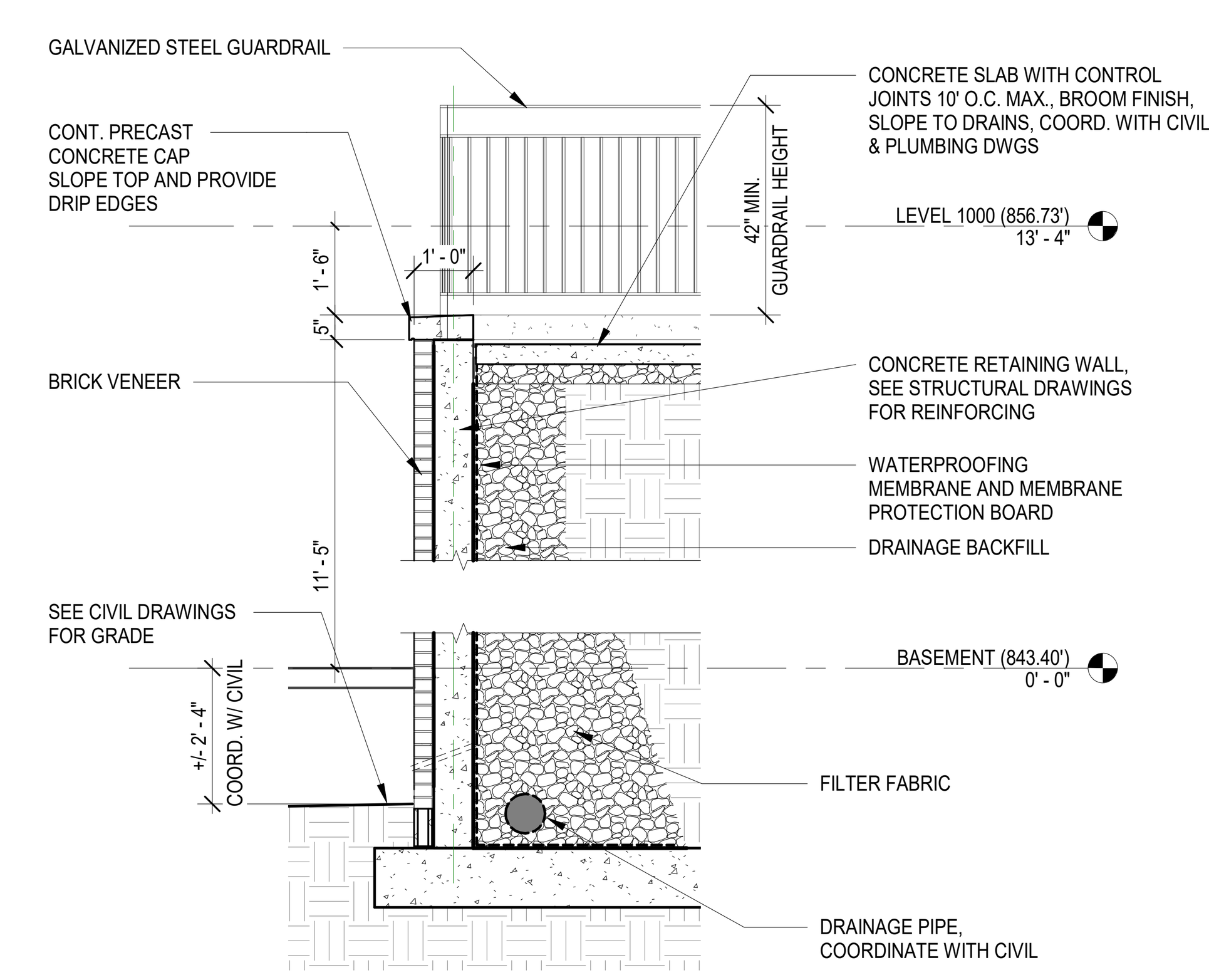
A1 / A102 **NORTH ENTRANCE STAIR SECTION 1**

1/4" = 1'-0"



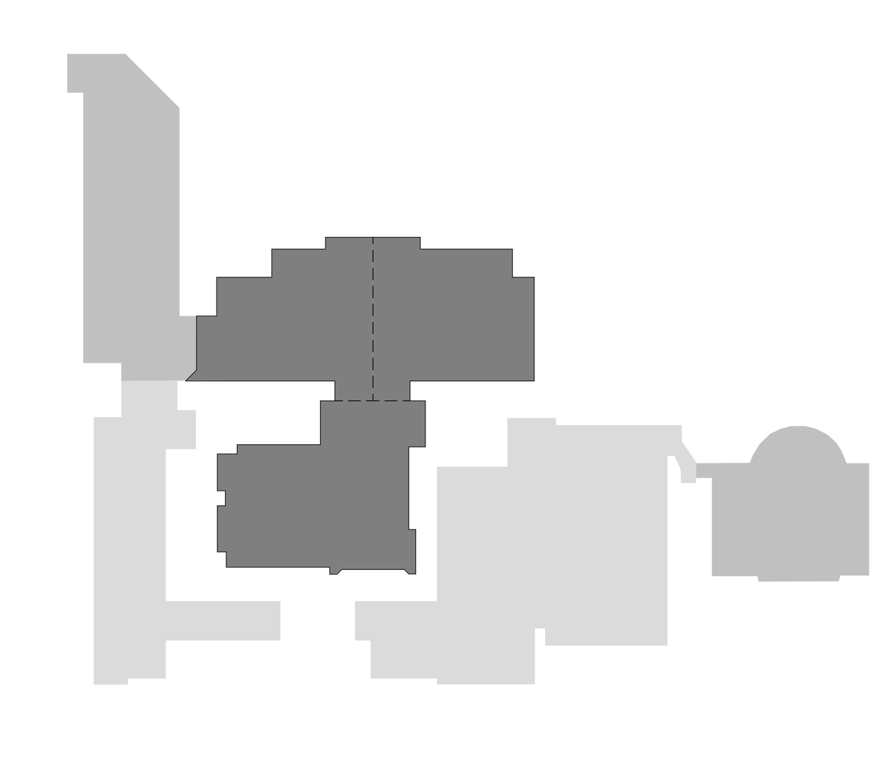
A3 / A102 **NORTH ENTRANCE STAIR SECTION 2**

1/4" = 1'-0"



B5 / A102 **SECTION DETAIL - EXTERIOR LANDING**

3/8" = 1'-0"



NOT FOR CONSTRUCTION
FOR PRICING ONLY

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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

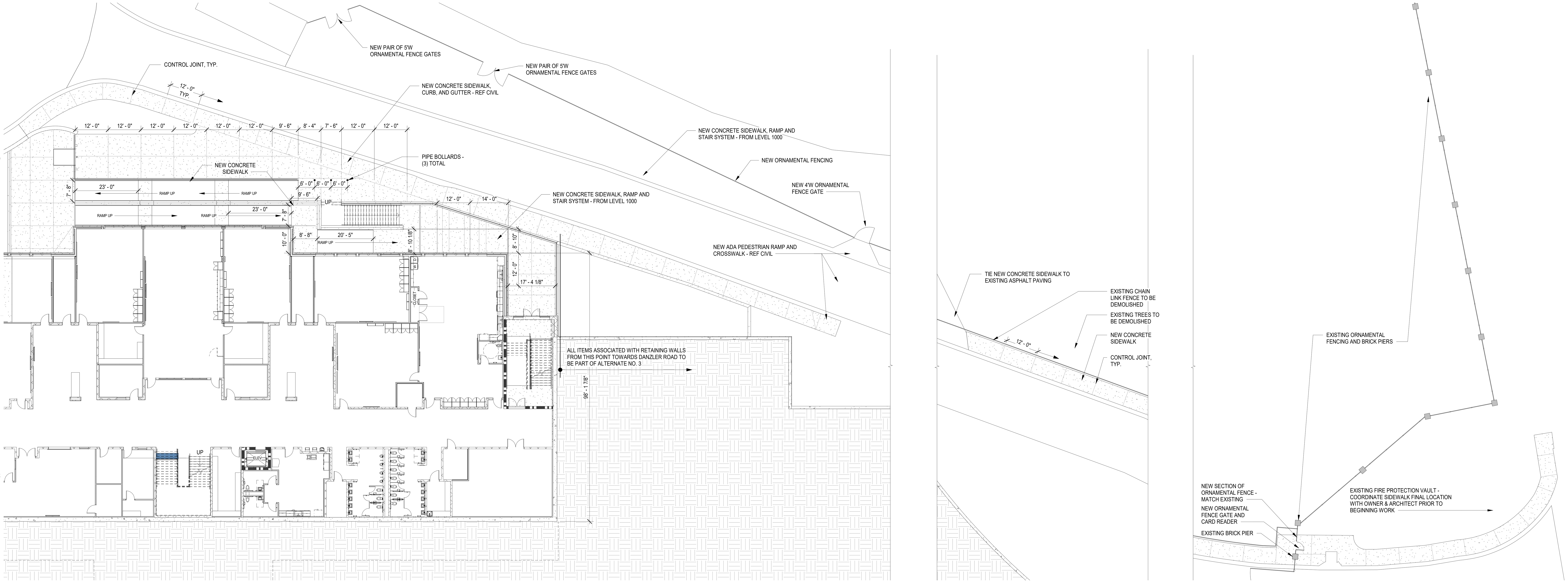
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

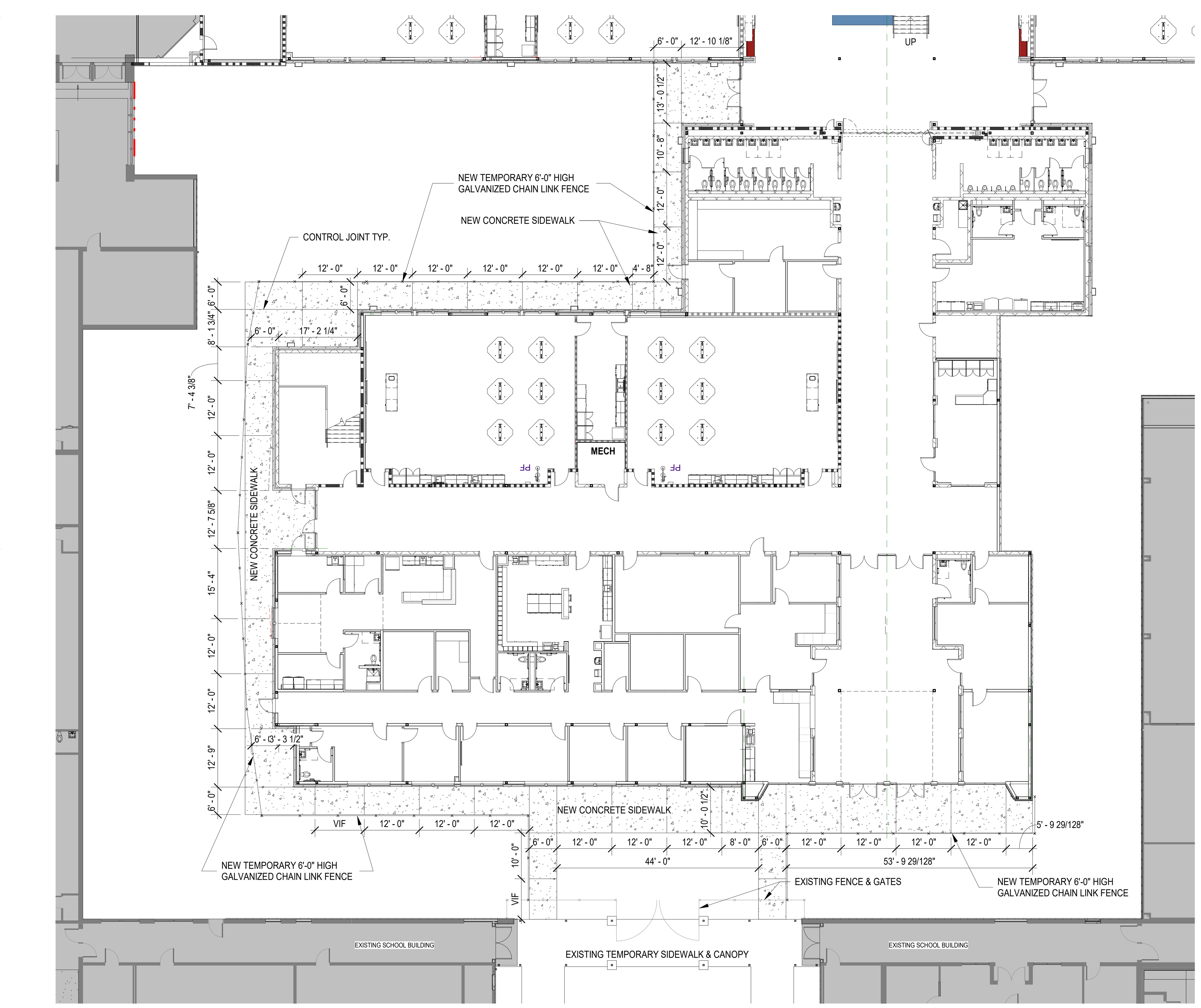
SHEET TITLE:
EXTERIOR STAIR, MECH. COURTYARD

SHEET NO. A102

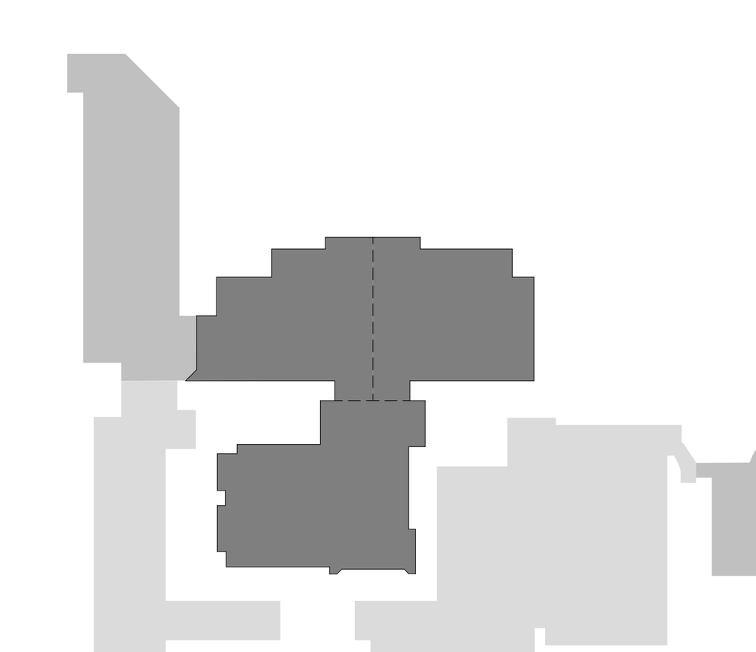
PROJ. NO. 020420.00



B4 / A103 **SIDEWALK PLAN**
1/16" = 1'-0"



A1 / A103 **SIDEWALK PLAN**
1/16" = 1'-0"



NOT FOR CONSTRUCTION
FOR PRICING ONLY

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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

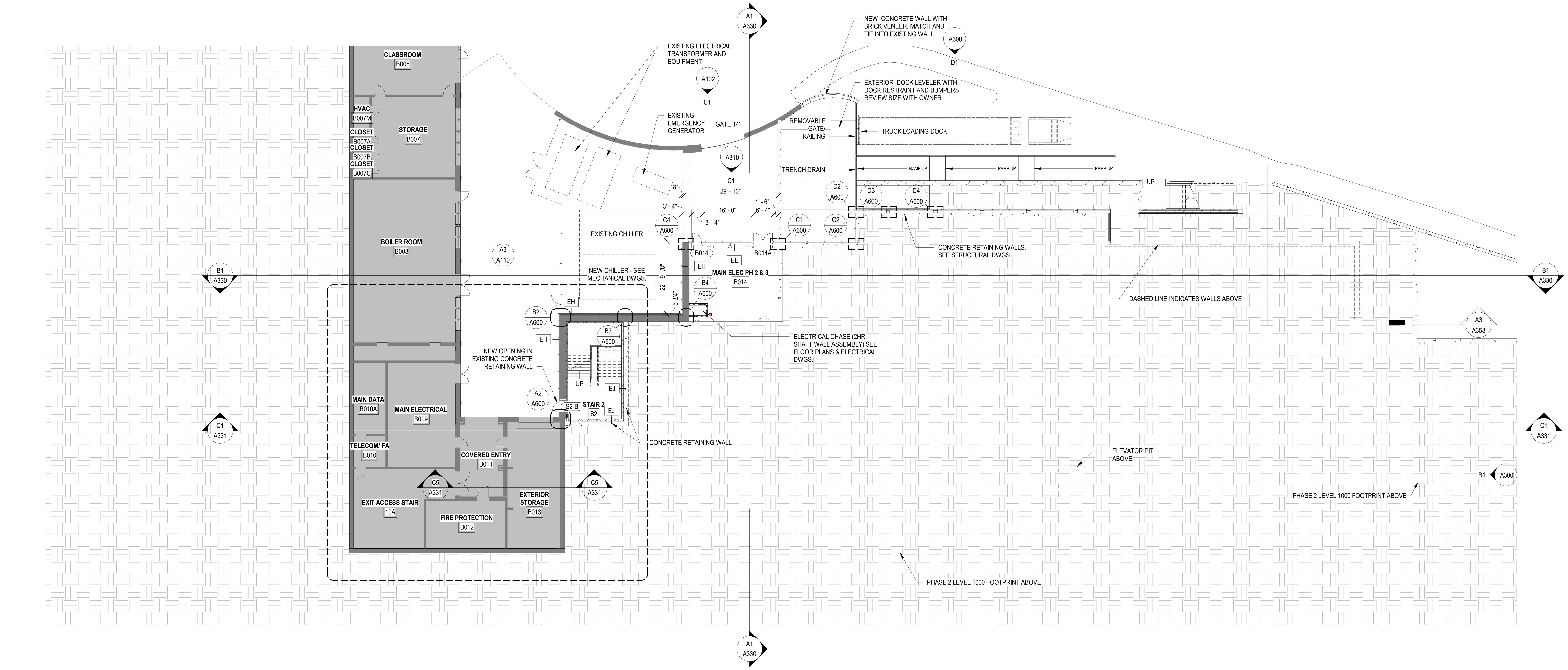
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: SEA

SHEET TITLE:
SIDEWALK & FENCING PLANS

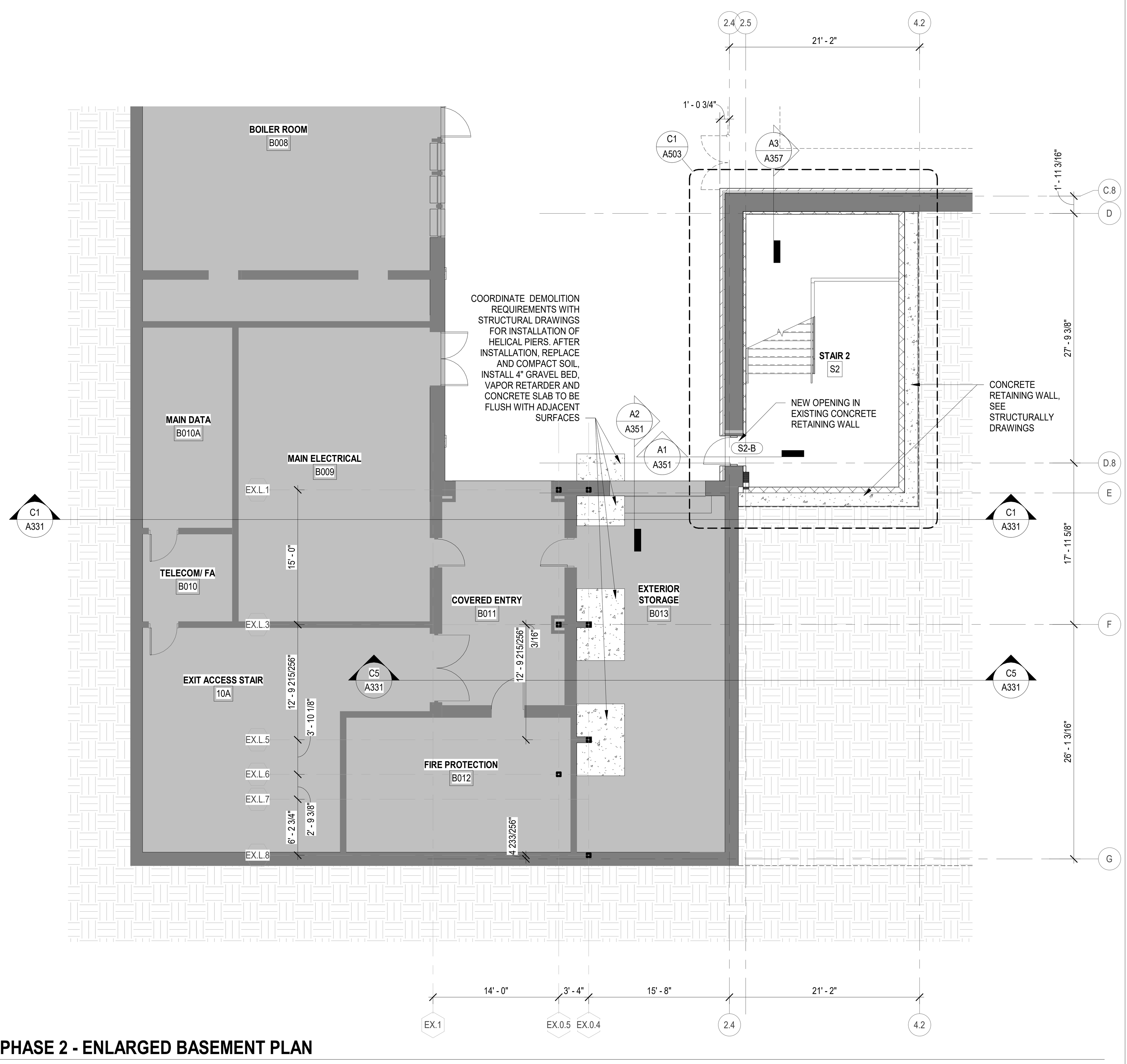
SHEET NO. PROJ. NO. 020420.00

A103



C1 A110 **PHASE 2 - BASEMENT FLOOR PLAN**

1/16" = 1'-0"



A3 A110 **PHASE 2 - ENLARGED BASEMENT PLAN**

1/8" = 1'-0"

GENERAL NOTES

- BASEMENT FINISH FLOOR ELEVATION - 843.40'

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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

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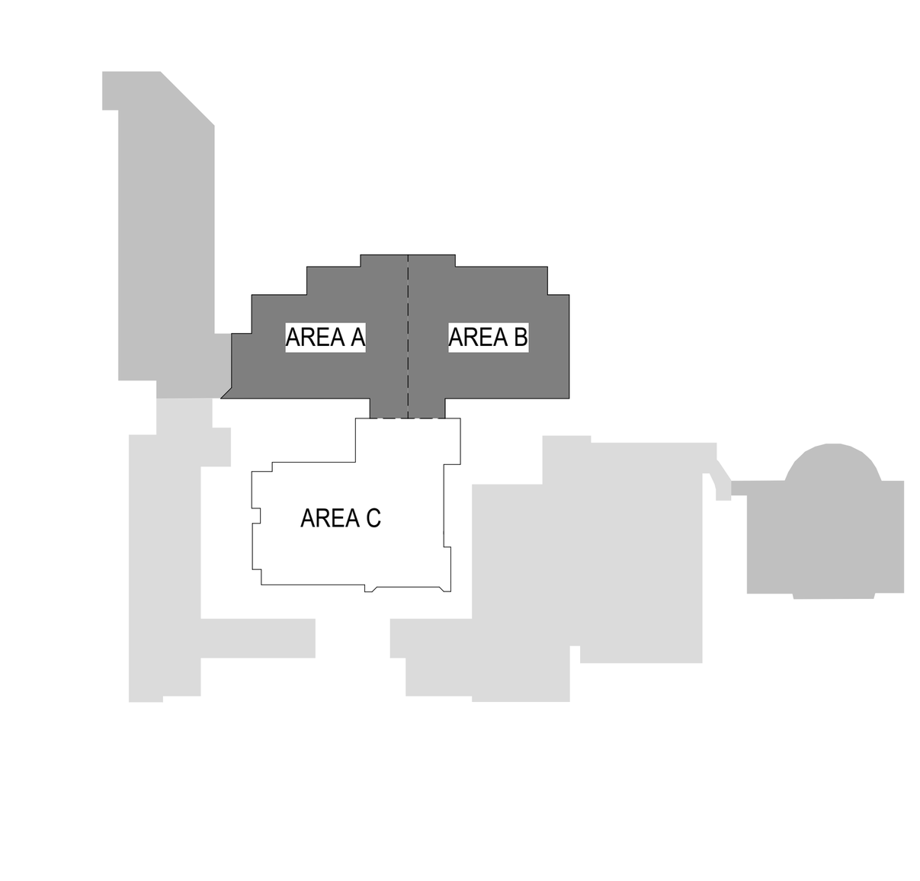
KEY PLAN



GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC

SHEET TITLE:

PHASE 2 - BASEMENT FLOOR PLAN

SHEET NO. PROJ. NO. 020420.00

A110

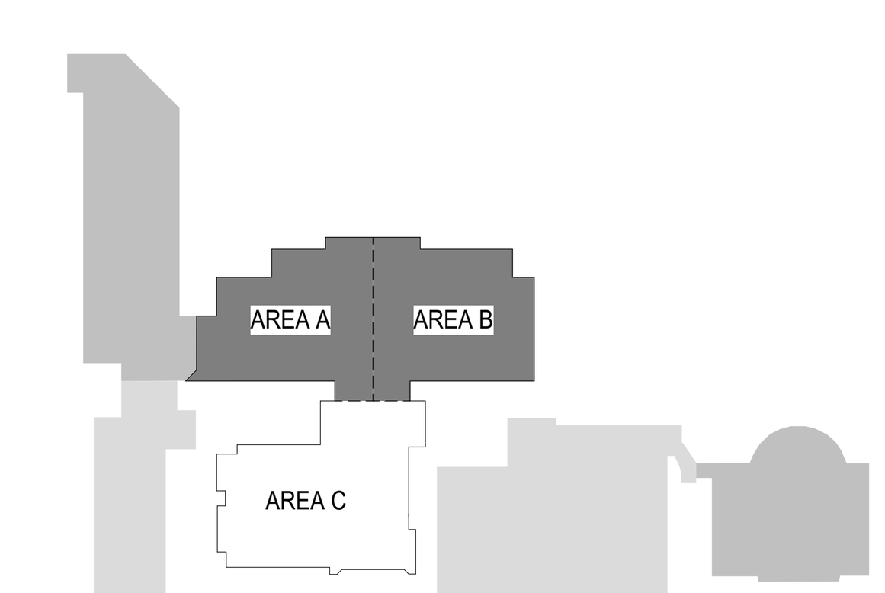
PHASE 2 - 1000 LEVEL OVERALL FLOOR PLAN

A1 / A111 — 1/16" = 1'-0"

GENERAL NOTES

- LEVEL 1000 FINISH FLOOR ELEVATION - 856.73'

KEY PLAN



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

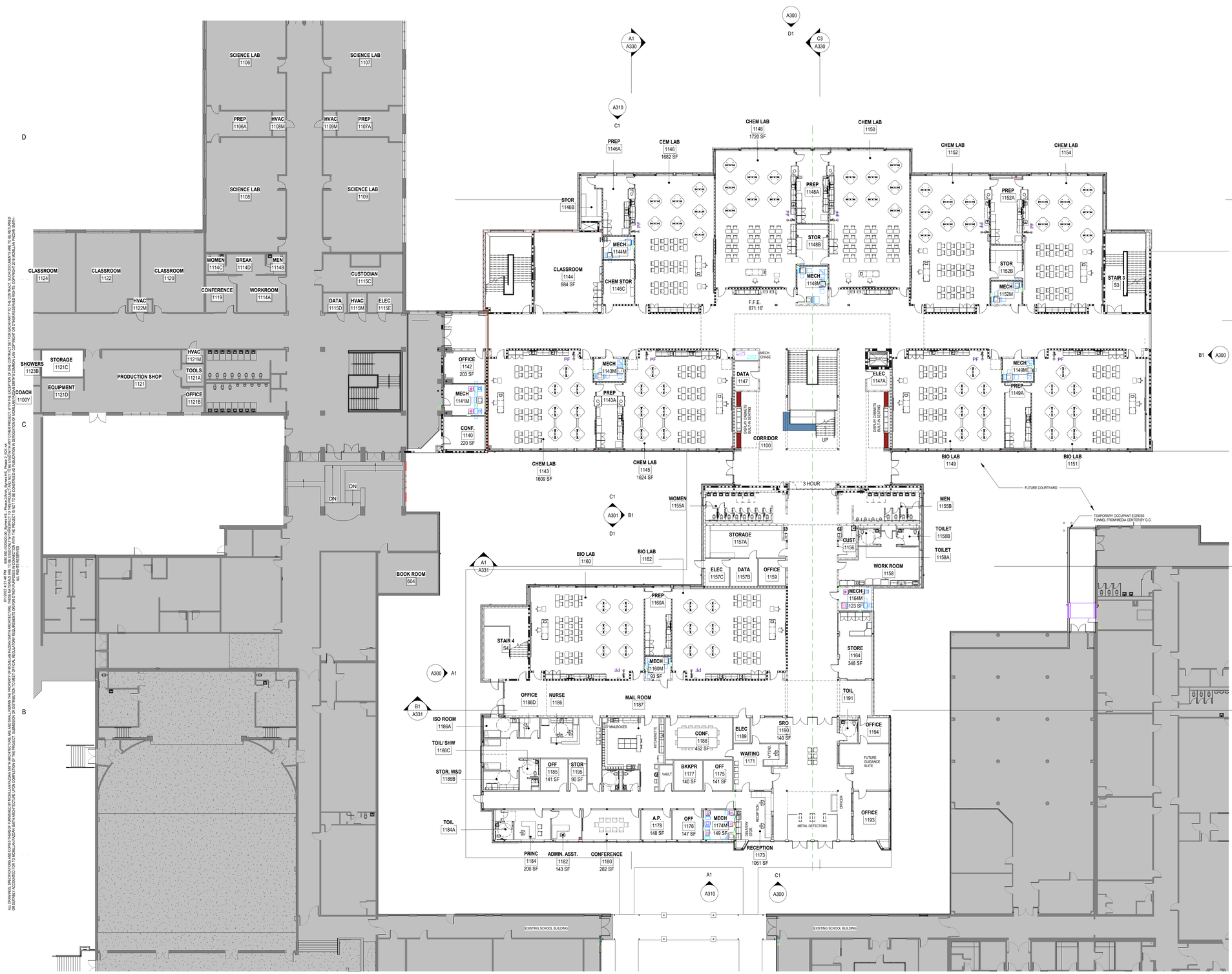
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

SHEET TITLE:
PHASE 2 - 1000 LEVEL - OVERALL FLOOR PLAN

SHEET NO. A111

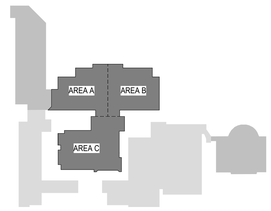
PROJ. NO. 020420.00



GENERAL NOTES

- LEVEL 1100 FINISH FLOOR ELEVATION - 871.16'

KEY PLAN



A1 A112 **PHASE 2 - 1100 LEVEL OVERALL FLOOR PLAN**
1/16" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

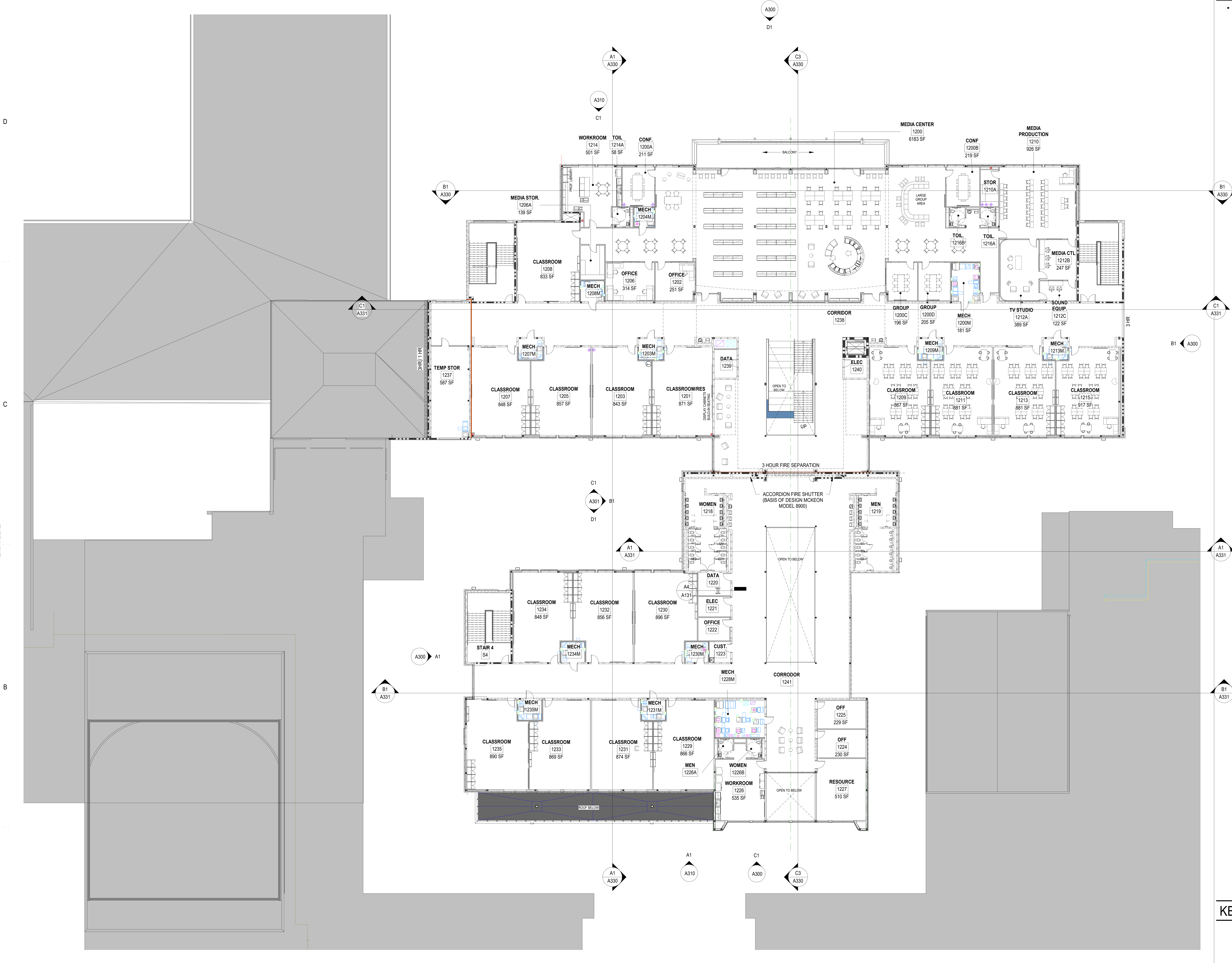
SHEET TITLE:
PHASE 2 - 1100 LEVEL - OVERALL FLOOR PLAN

SHEET NO. A112

PROJ. NO. 020420.00

GENERAL NOTES

- LEVEL 1200 FINISH FLOOR ELEVATION - 887.16'



A1 A113 **PHASE 2 - 1200 LEVEL OVERALL FLOOR PLAN**

1/16" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

KEY PLAN

GMP SET 06/01/22

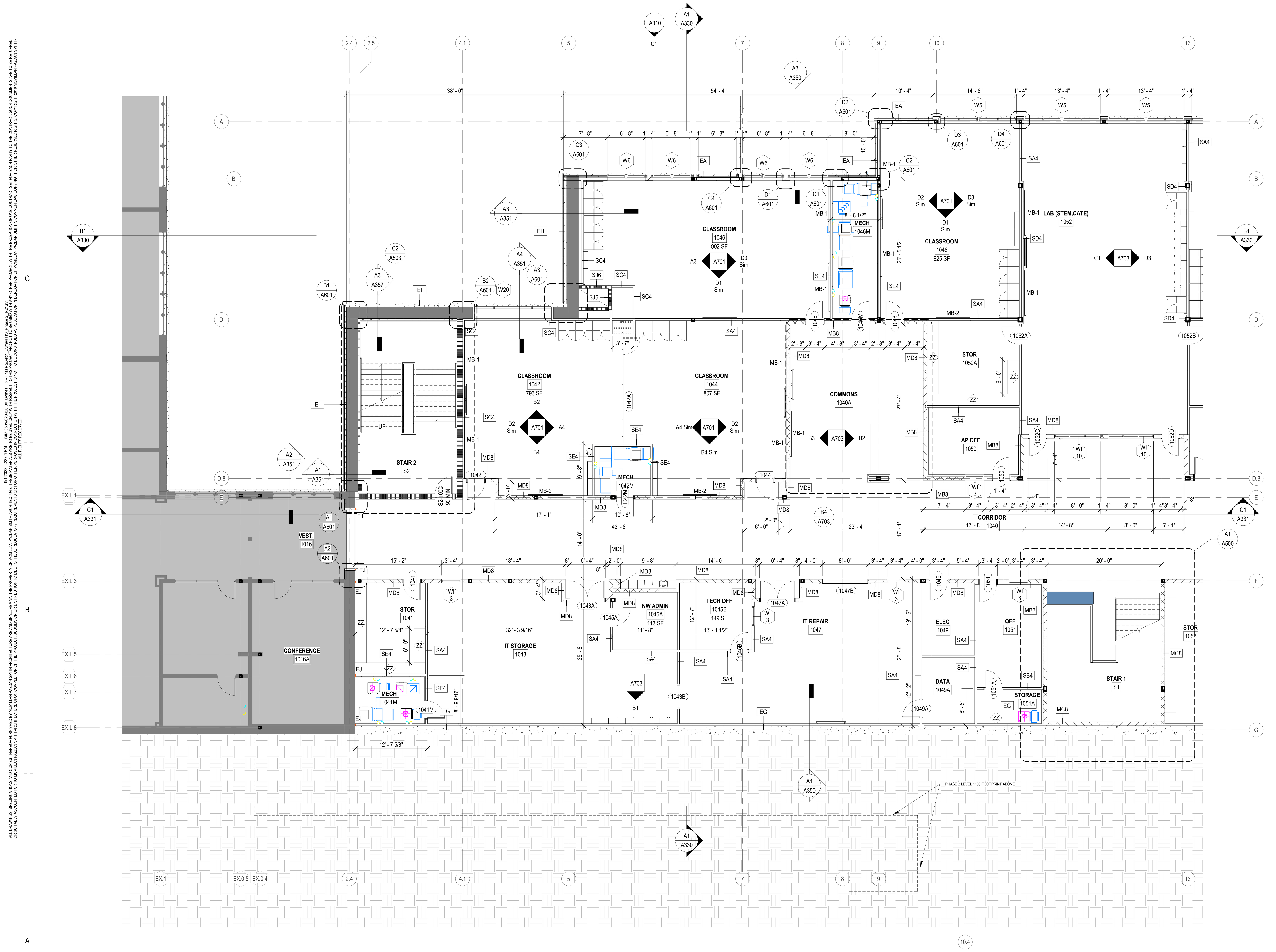
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

SHEET TITLE:

PHASE 2 - 1200 LEVEL - OVERALL FLOOR PLAN

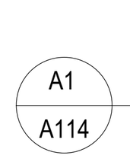
SHEET NO. PROJ. NO. 020420.00

A113



PLAN DETAI

1/8" = 1'-0"



GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER

SMOKE PARTITION (SMOKE TIGHT)

RATED - 1 HOUR

RATED - 2 HOUR

RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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C	06/01/22	GMP SET	MLC

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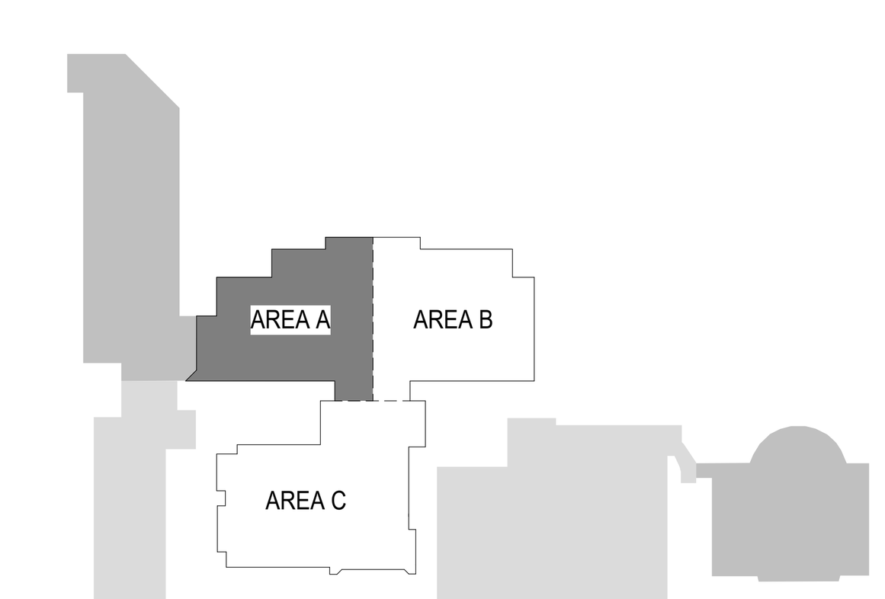
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

SHEET TITLE:

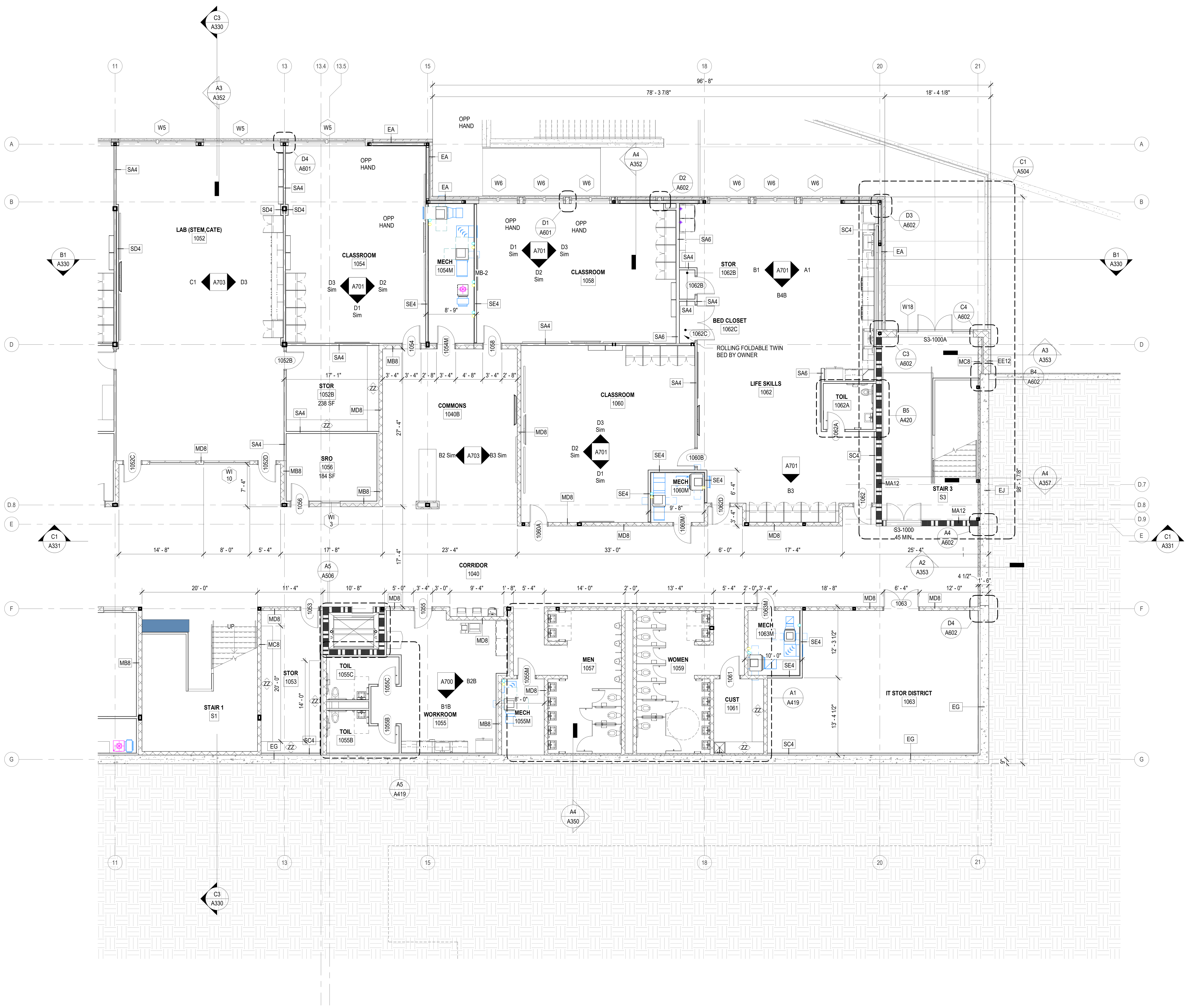
PHASE 2 - 1000 LEVEL - FLOOR PLAN AREA A



PROJECT NORTH

SHEET NO. A114

PROJ. NO. 020420.00



GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION

2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

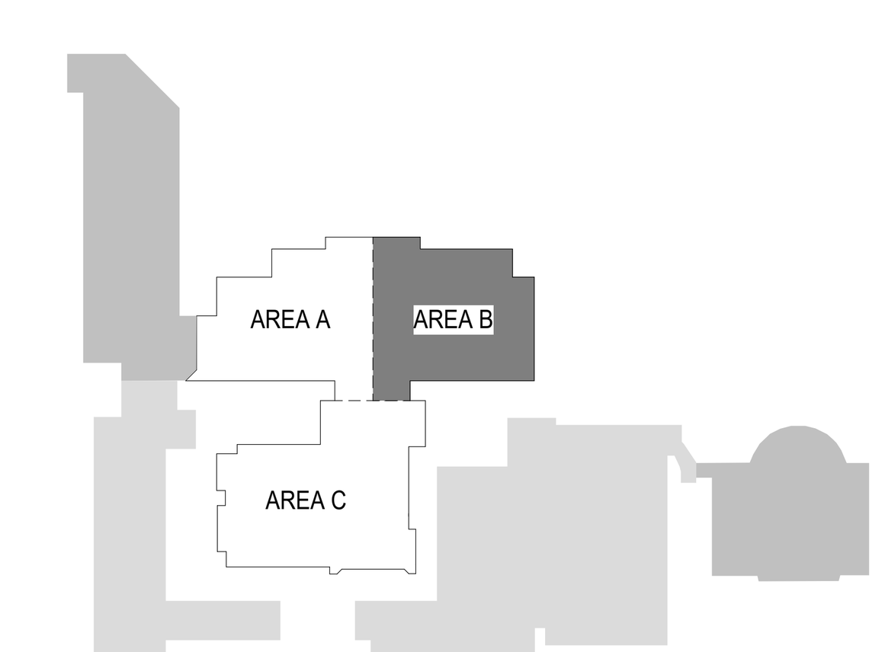
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY



PROJECT NORTH

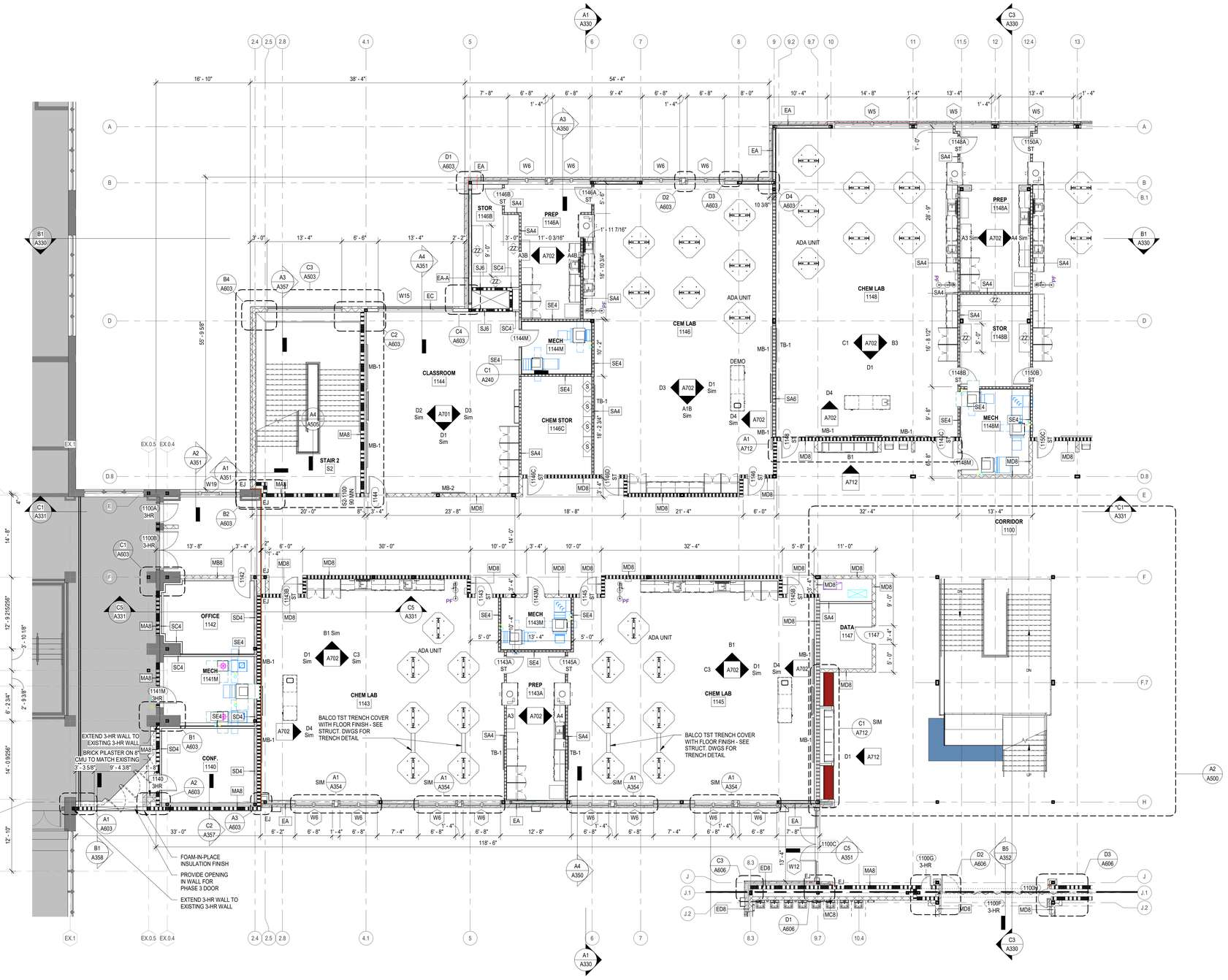
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
PHASE 2 - 1000 LEVEL - FLOOR PLAN AREA B

SHEET NO.
A115

PROJ. NO.
020420.00



A1 / A116 **PHASE 2 1100 LEVEL ENLARGED FLOOR PLAN AREA A**

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

SHEET TITLE:
PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA A

SHEET NO. A116

PROJ. NO. 020420.00

PROJECT NORTH

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

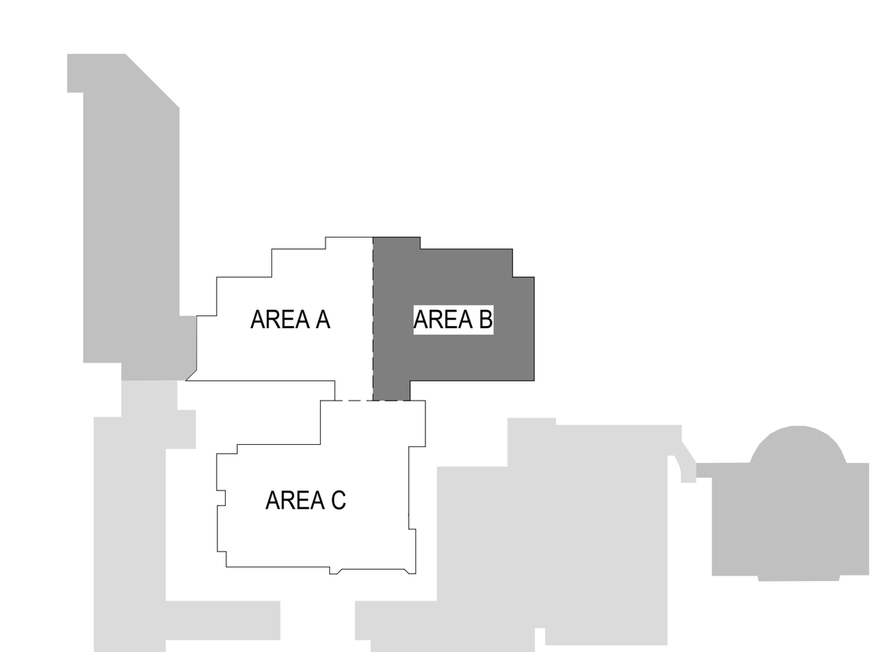
LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES

A1 / A117 **PHASE 2 1100 LEVEL ENLARGED FLOOR PLAN AREA B**

1/8" = 1'-0"



PROJECT NORTH

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

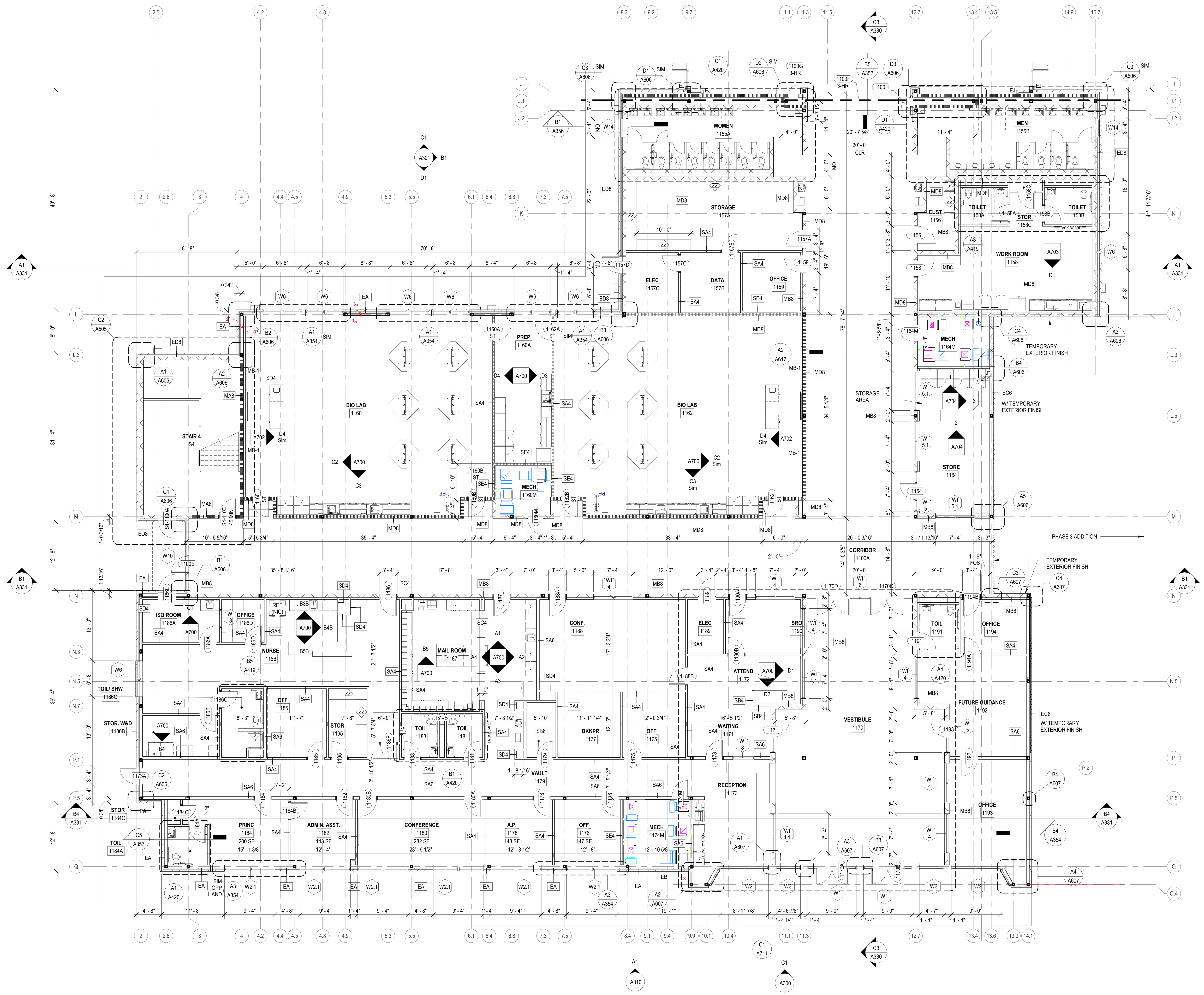
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC, CM

SHEET TITLE:

PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA B

SHEET NO. PROJ. NO: 020420.00

A117



PHASE 2 - 1100 LEVEL - ENLARGED FLOOR PLAN AREA C

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

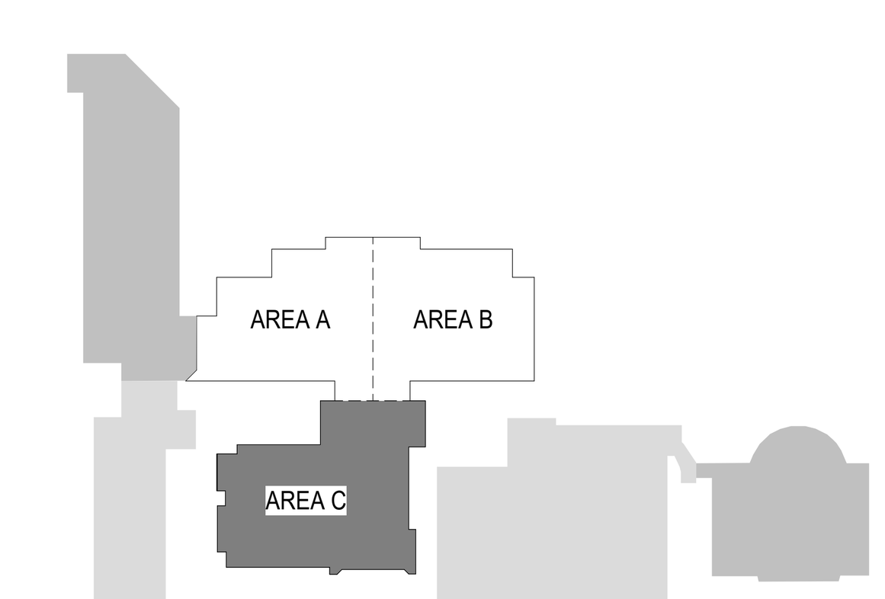
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY



GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CM

SHEET TITLE:
PHASE 2 - 1100 LEVEL - FLOOR PLAN AREA C

PROJECT NORTH

SHEET NO.: A118

PROJ. NO. 020420.00

A1 A119 **PHASE 2 1200 LEVEL ENLARGED FLOOR PLAN AREA A**

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

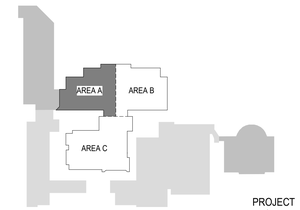
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:

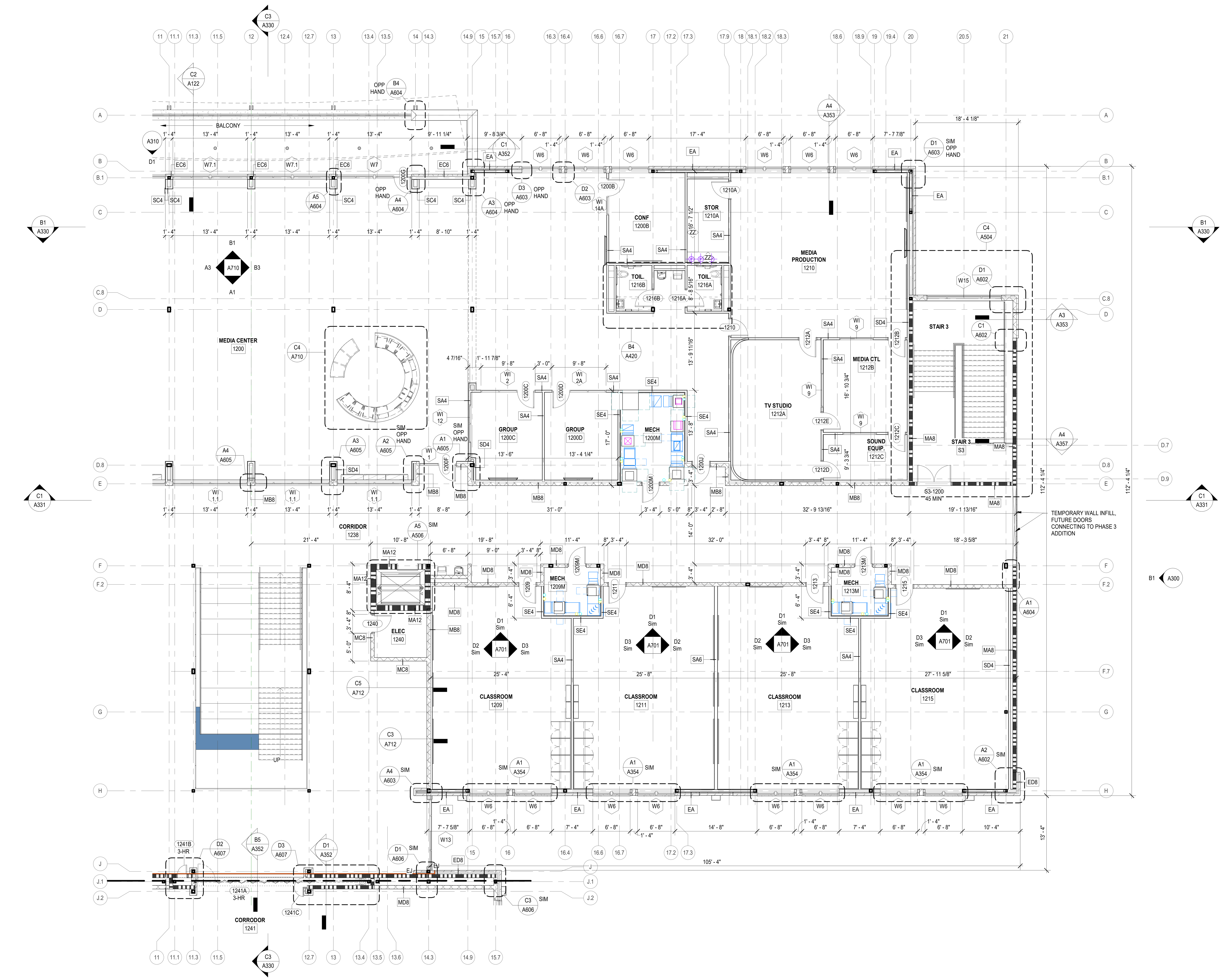
PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA A



PROJECT NORTH

SHEET NO. A119

PROJ. NO. 020420.00



A1 A120 PHASE 2 1200 LEVEL ENLARGED FLOOR PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION

2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER

SMOKE PARTITION (SMOKE TIGHT)
RATED - 1 HOUR
RATED - 2 HOUR
RATED - 3 HOUR

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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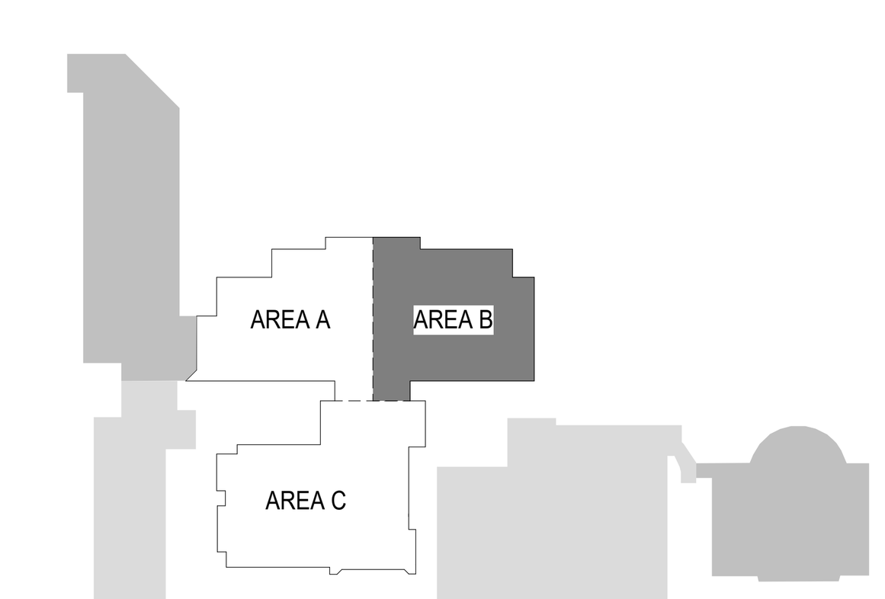
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

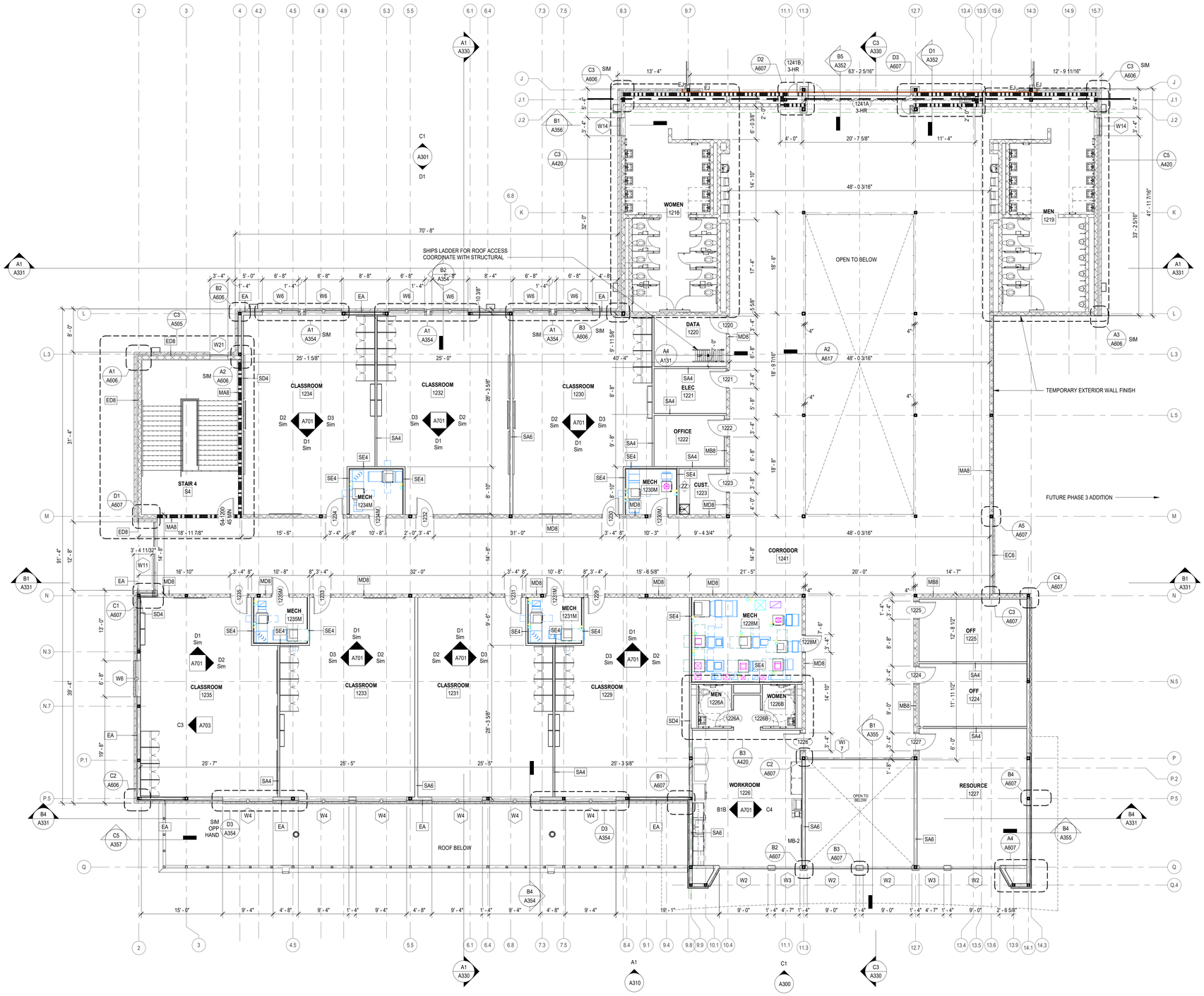


PROJECT NORTH

SHEET TITLE:
PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA B

SHEET NO.
A120

PROJ. NO.
020420.00



A1 A121 **PHASE 2 1200 LEVEL ENLARGED FLOOR PLAN AREA C**

1/8" = 1'-0"

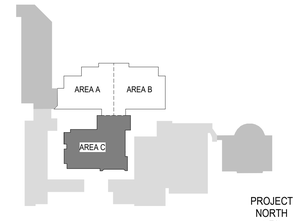
GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

45 MIN.	FORTY-FIVE MINUTE RATED DOOR & FRAME
90 MIN.	ONE AND ONE HALF HOUR RATED DOOR & FRAME
3 HR	THREE HOUR RATED DOOR & FRAME
EWC / EWC ADA	ELECTRIC WATER COOLER/ACCESSIBLE ELECTRIC WATER COOLER + BOTTLE FILLER
	SMOKE PARTITION (SMOKE TIGHT)
	RATED - 1 HOUR
	RATED - 2 HOUR
	RATED - 3 HOUR

SHEET KEYNOTES



PROJECT NORTH

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

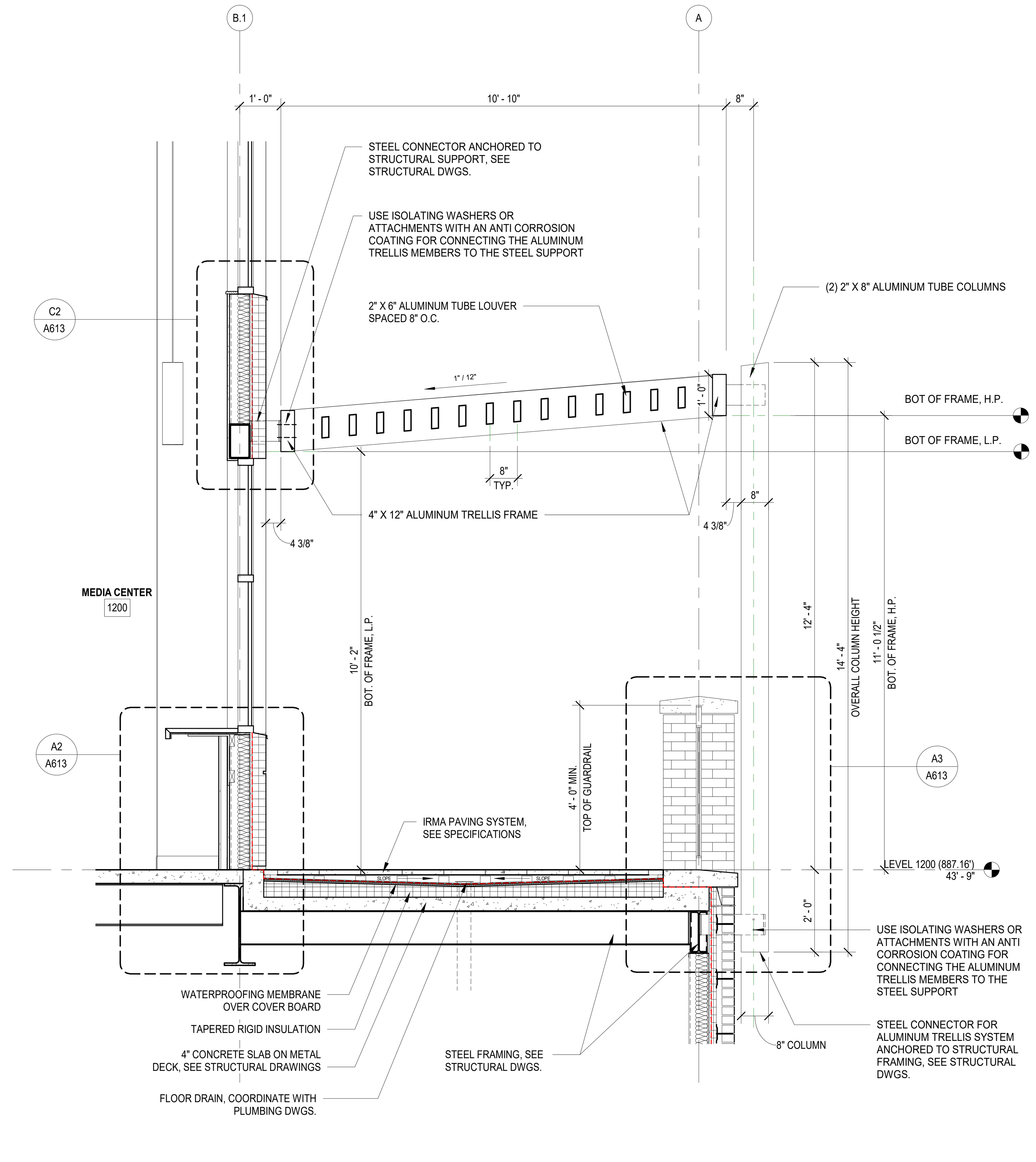
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:

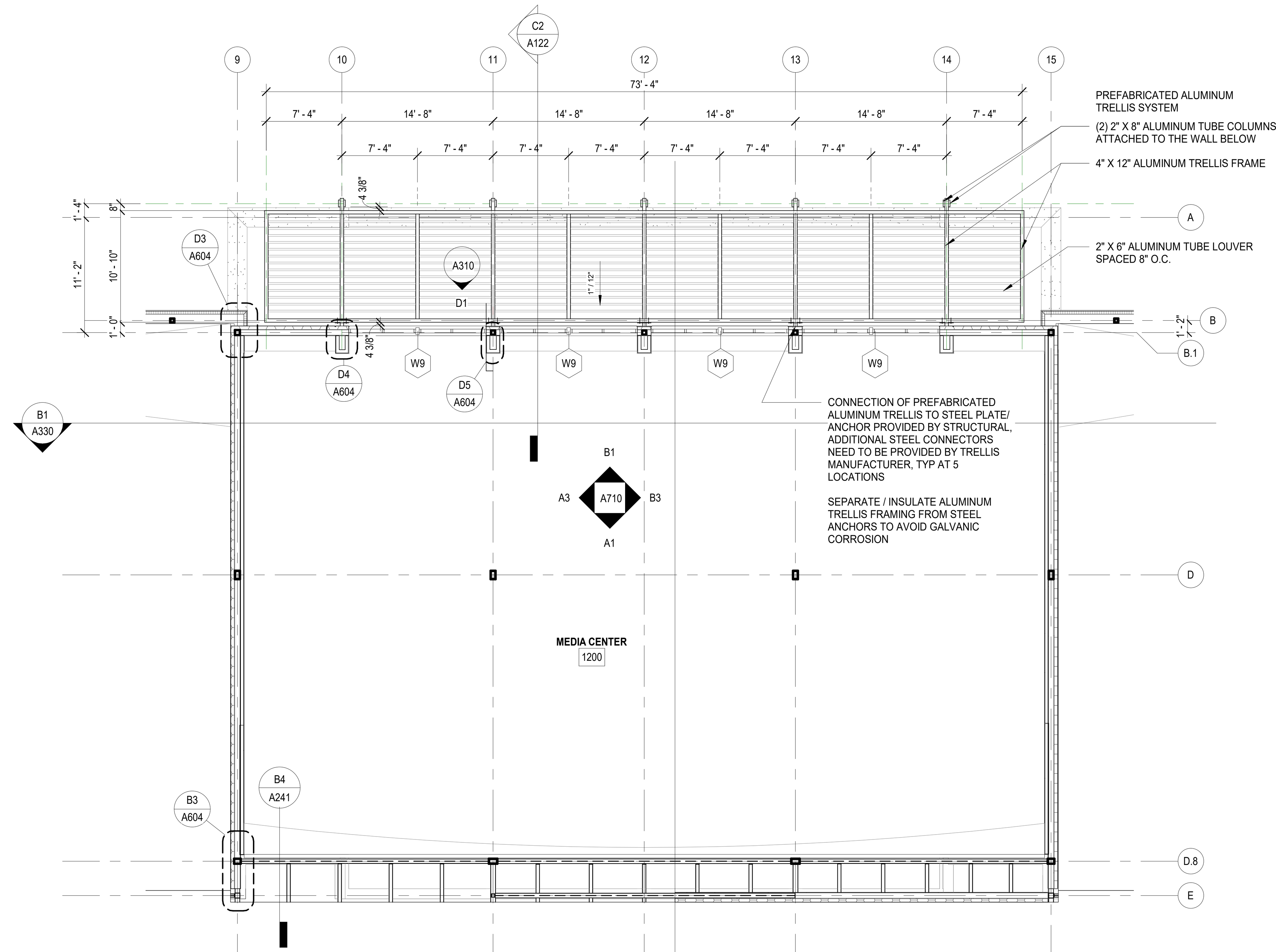
PHASE 2 - 1200 LEVEL - FLOOR PLAN AREA C

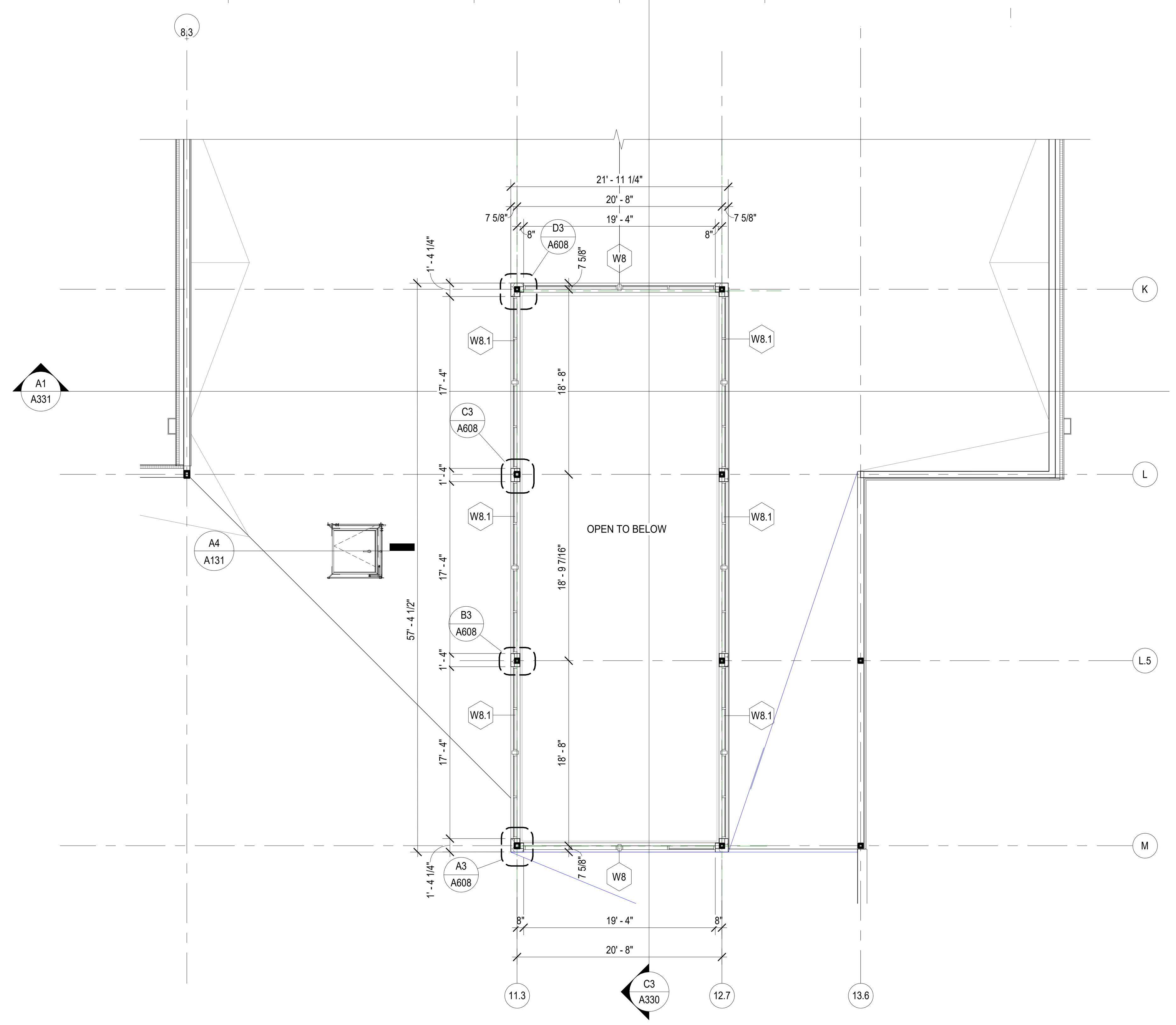
SHEET NO. A121

PROJ. NO. 020420.00

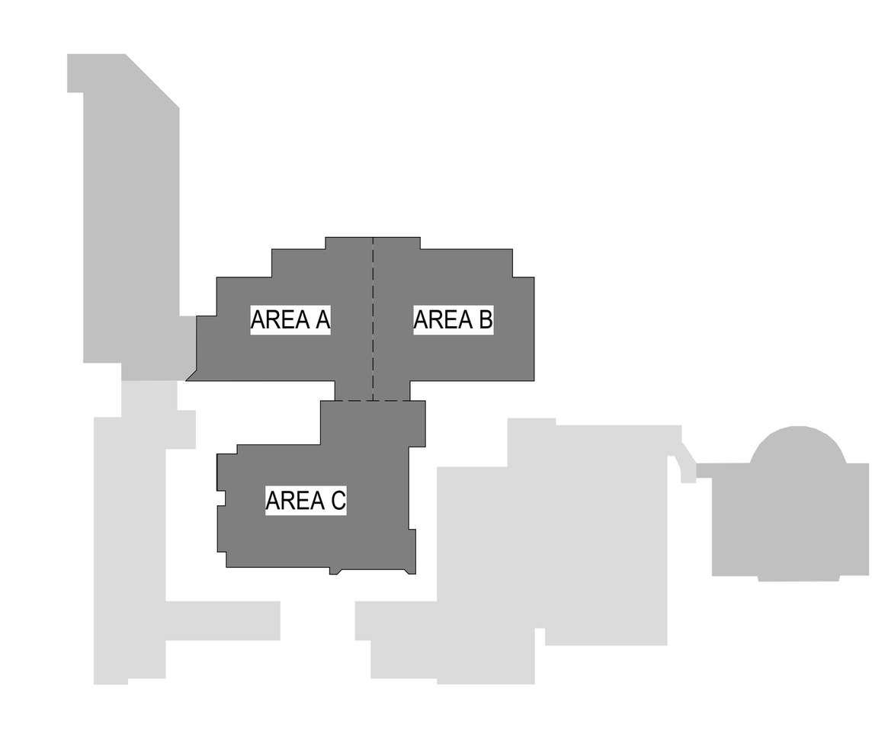


C2 A122 **WALL SECTION - TRELLIS/ CANOPY AT MEDIA CENTER**
1/2" = 1'-0"





1 A122 **PHASE 2 - CLERESTORY**
1/8" = 1'-0"



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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NOT FOR CONSTRUCTION
FOR PRICING ONLY

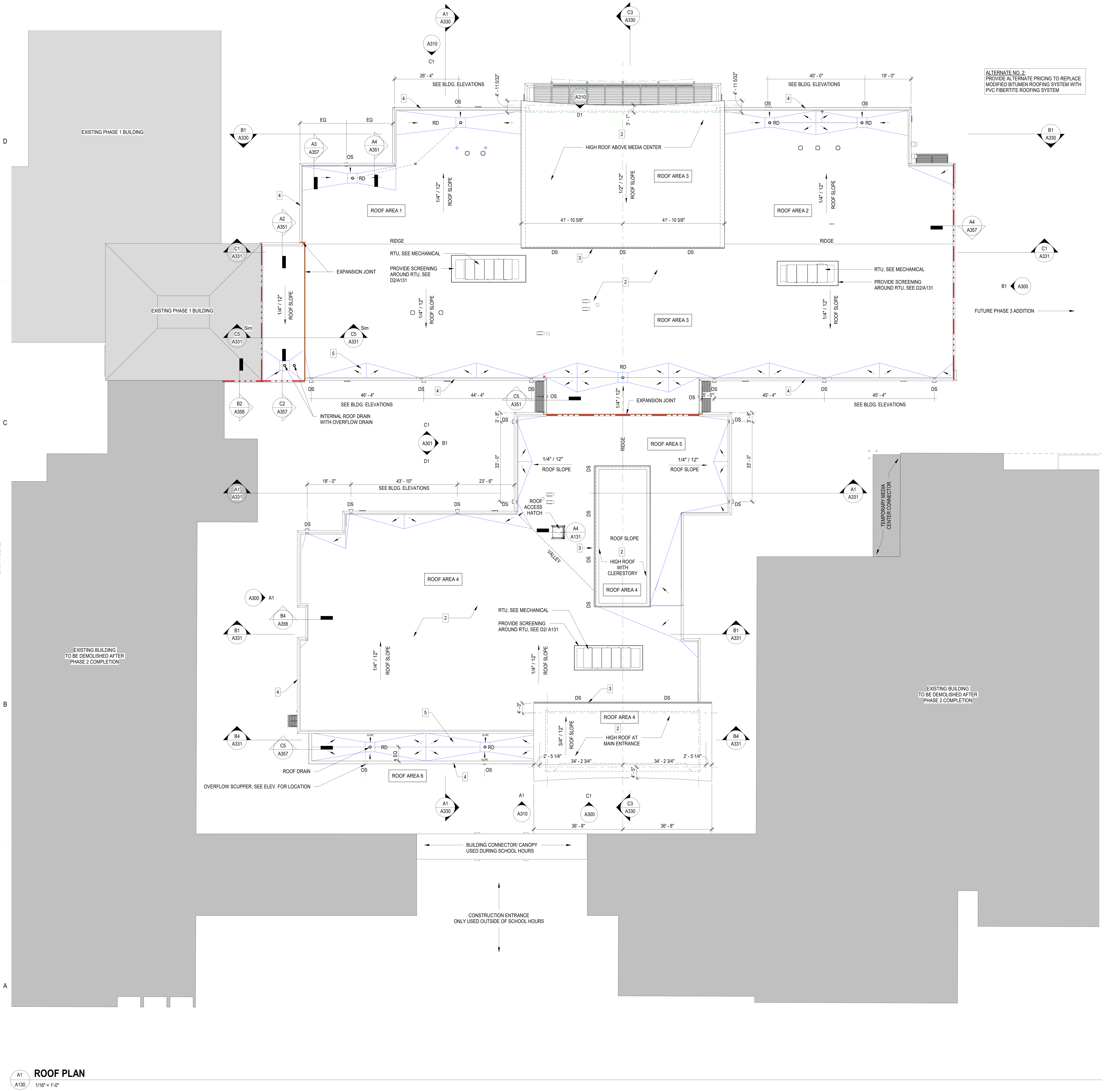
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

SHEET TITLE:
PHASE 2 - CLERESTORY PLAN

SHEET NO. PROJ. NO. 020420.00

A122



ROOF PLAN

1/16" = 1'-0"

ALTERNATE NO. 2:
PROVIDE ALTERNATE PRICING TO REPLACE MODIFIED BITUMEN ROOFING SYSTEM WITH PVC FIBERTITE ROOFING SYSTEM

ROOF NOTES:

1. SEE BUILDING ELEVATIONS FOR PLACEMENT OF DOWNSPOUTS AND OVERFLOW SCUPPERS, WHERE CENTERING BETWEEN WINDOWS IS REQUIRED
2. ROOFING MATERIAL U.N.O.: MODIFIED BITUMEN ROOFING SYSTEM OVER 1/2" COVERBOARD, 4" RIGID INSULATION, SEE SPECS, REQUIRED ROOF R VALUE R-20 PER ICCE
3. PREFINISHED METAL GUTTER AND DOWNSPOUTS, COLOR BY ARCHITECT, DRAIN ONTO LOWER ROOF
4. CONT. PREFINISHED METAL PARAPET CAP, SEE TYP. DETAIL
5. TAPERED INSULATION TO PROVIDE SLOPE TO DRAINS

DS - CONDUCTOR HEAD WITH DOWNSPOUT
OS - (EMERGENCY) OVERFLOW SCUPPER
RD - INTERNAL ROOF DRAIN

ROOF DRAINAGE CALCULATION

ROOF AREA 1

TOTAL ROOF AREA 1: 4,200 SF (4,000 SF ROOF AREA +200 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 2 LEADERS = **2,100 SF PER LEADER**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 2,100 SF = **89 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. LEADER SIZE REQUIRED: 4" DIA LEADER CAN ACCOMODATE 180 GMP
PROVIDED LEADER: 4" DIA AT INTERNAL ROOF DRAINS

2018 SC PLUMBING CODE 1108.3 SIZING OF SECONDARY/ OVERFLOW DRAINS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64")
(MIN. WIDTH REQUIRED CIRCUMFERENCE OF LEADER DIA)
OVERFLOW SCUPPER PROVIDED: 6" HIGH x 14" WIDE

ROOF AREA 2

TOTAL ROOF AREA 2: 5,000 SF (4,800SF ROOF AREA +200 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 2 LEADERS = **2,500 SF PER LEADER**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 2,500 SF = **106 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. DOWNSPOUTS SIZE REQUIRED: 4" DIA LEADER CAN ACCOMODATE 180 GMP
PROVIDED LEADER/ DOWNSPOUTS: 4" DIA AT INTERNAL ROOF DRAINS (311 GMP CAPACITY)

2018 SC PLUMBING CODE 1108.3 SIZING OF SECONDARY/ OVERFLOW DRAINS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64")
OVERFLOW SCUPPER PROVIDED: 6" HIGH x 14" WIDE

ROOF AREA 3

TOTAL ROOF AREA 3: 21,000 SF (20,700 SF ROOF AREA + 300 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 7 DOWNSPOUTS AT 46' O.C. = **3,000 SF PER DOWNSPOUT**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 3,000 SF = **128 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. DOWNSPOUTS SIZE REQUIRED: 4" DIA LEADER CAN ACCOMODATE 180 GMP
PROVIDED LEADER/ DOWNSPOUTS: 4" DIA AT INTERNAL ROOF DRAINS (311 GMP CAPACITY)
4" X 6" DOWNSPOUTS AT CONDUCTOR HEADS

2018 SC PLUMBING CODE 1106.5 PARAPET WALL SCUPPERS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64)
WALL SCUPPER PROVIDED: 6" HIGH x 14" WIDE

2018 SC PLUMBING CODE 1108.3 SIZING OF SECONDARY/ OVERFLOW DRAINS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64")
OVERFLOW SCUPPER PROVIDED: 6" HIGH x 14" WIDE

ROOF AREA 4

TOTAL ROOF AREA 4: 17,660 SF (17,400 SF ROOF AREA + 260 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 5 DOWNSPOUTS = **3,532 SF PER DOWNSPOUT**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 3,532 SF = **150 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. DOWNSPOUTS SIZE REQUIRED: 4" DIA LEADER CAN ACCOMODATE 180 GMP
PROVIDED LEADER/ DOWNSPOUTS: 4" X 6" DOWNSPOUTS AT CONDUCTOR HEADS

2018 SC PLUMBING CODE 1106.5 PARAPET WALL SCUPPERS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64)
WALL SCUPPER PROVIDED: 6" HIGH x 14" WIDE

ROOF AREA 5

TOTAL ROOF AREA 5: 2,140 SF (2,000 SF ROOF AREA + 140 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 2 DOWNSPOUTS = **1,070 SF PER DOWNSPOUT**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 3,532 SF = **45 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. DOWNSPOUTS SIZE REQUIRED: 4" DIA LEADER CAN ACCOMODATE 180 GMP
PROVIDED LEADER/ DOWNSPOUTS: 4" X 6" DOWNSPOUTS AT CONDUCTOR HEADS

2018 SC PLUMBING CODE 1106.5 PARAPET WALL SCUPPERS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 14" WIDE (4" x π = 12.64)
WALL SCUPPER PROVIDED: 6" HIGH x 14" WIDE

ROOF AREA 6

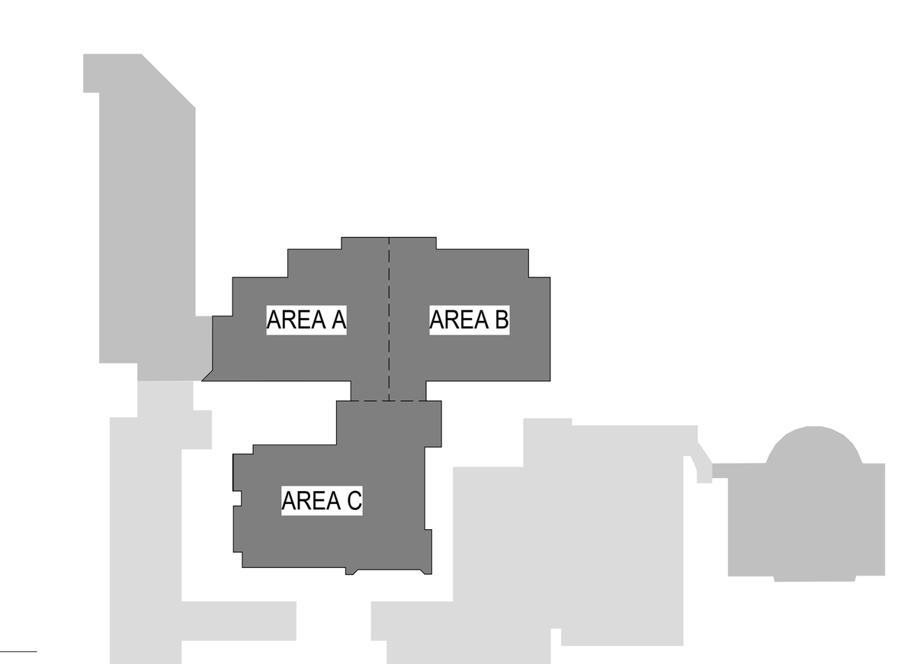
TOTAL ROOF AREA 6: 1,060 SF (1,000 SF ROOF AREA + 60 SF 1/2 AREA OF PARAPET WALL)
DIVIDED BY 2 LEADERS = **530 SF PER LEADER**

2018 SC PLUMBING CODE APPENDIX B:
GREENVILLE, SC RAINFALL RATE: 4.1 INCHES PER HOUR (100-YEAR HOURLY RAINFALL RATE)

GPM *(GALLONS PER MINUTE)* = (0.0104)IHP x SF (PER SMACNA)
GMP = 0.0104 x 4.1 INCHES / HOUR x 530 SF = **22.5 GMP**

2018 SC PLUMBING CODE TABLE 1106.2
MIN. DOWNSPOUTS SIZE REQUIRED: 2" DIA LEADER CAN ACCOMODATE 34 GMP
PROVIDED LEADER/ DOWNSPOUTS: 3" DIA AT INTERNAL ROOF DRAIN (87 GMP CAPACITY)

2018 SC PLUMBING CODE 1106.5 PARAPET WALL SCUPPERS
MIN. SCUPPER SIZE REQUIRED: 4" HIGH x 7" WIDE (2" x π = 6.28)
WALL SCUPPER PROVIDED: 4" HIGH x 8" WIDE



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:
OVERALL ROOF PLAN

SHEET NO. A130
PROJ. NO. 020420.00

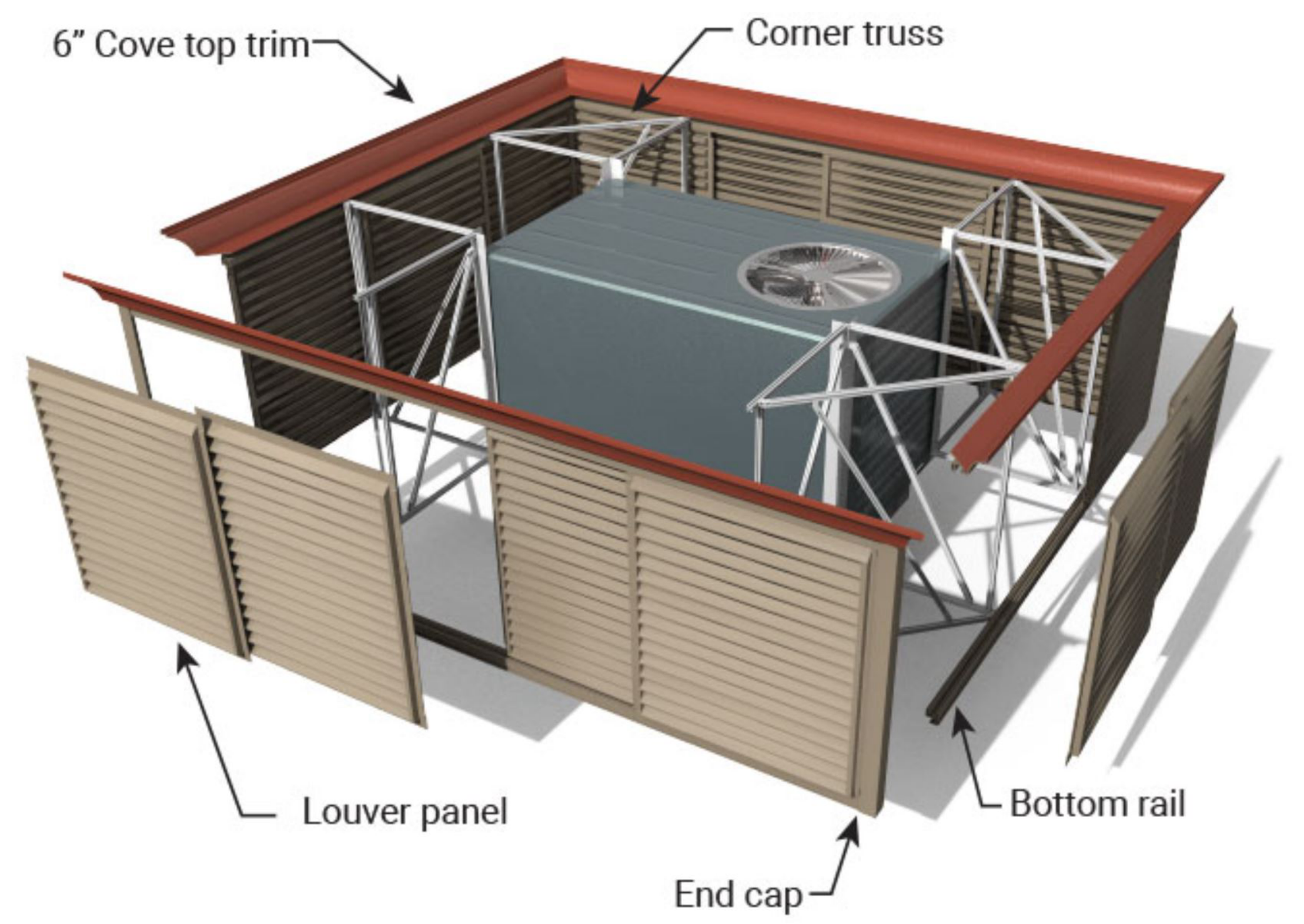
ROOFTOP SCREEN BY ENVISOR SCREENING SYSTEMS (CITYSCAPES ARCHITECTURAL INNOVATIONS)

SCREENING SYSTEM IS MOUNTED TO THE RTU, NO ROOF PENETRATIONS

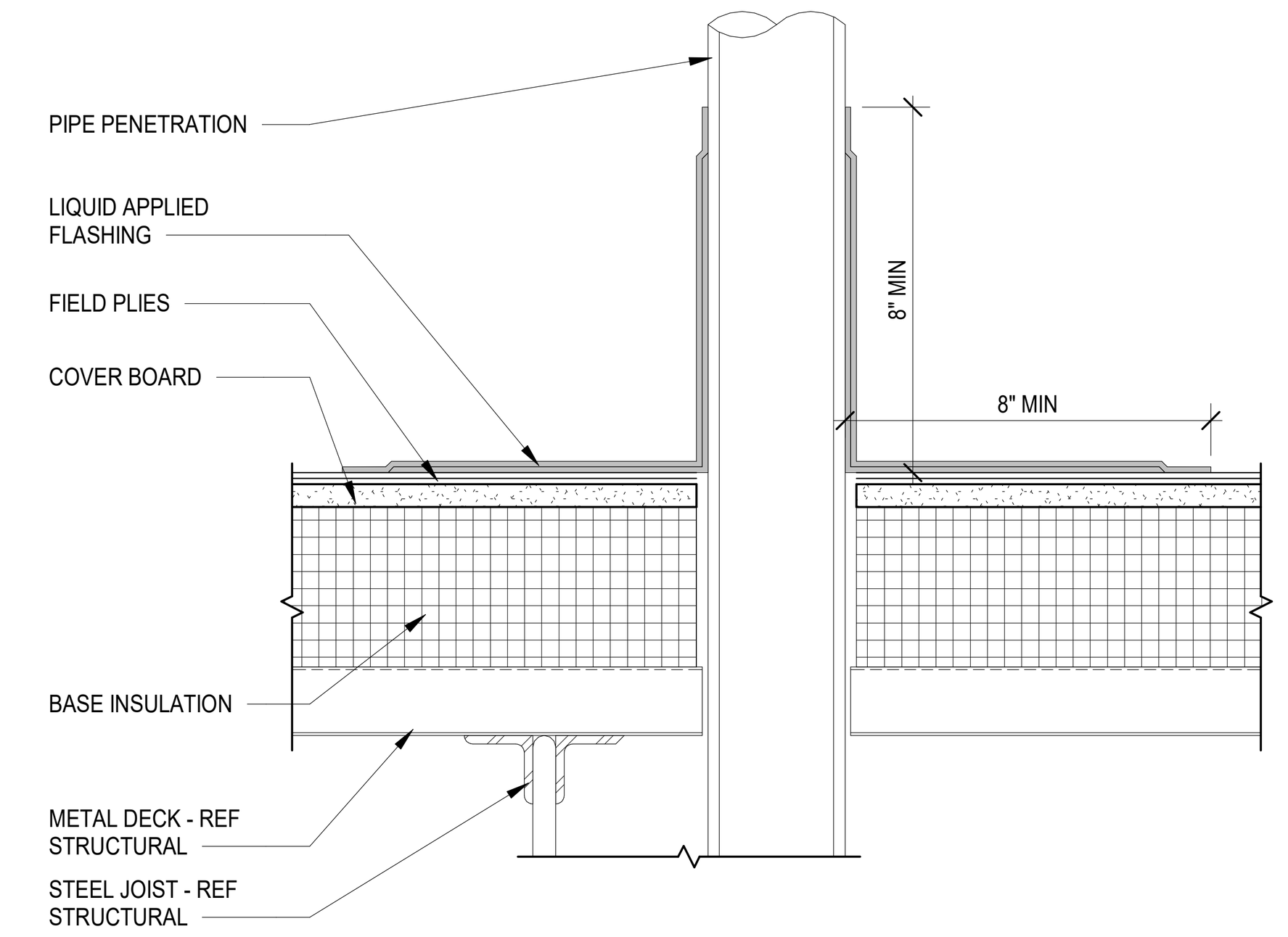
WITH GLIDE TRACKS FOR SERVICE ACCESS

HORIZONTAL PERFORATED LOUVER PANELS

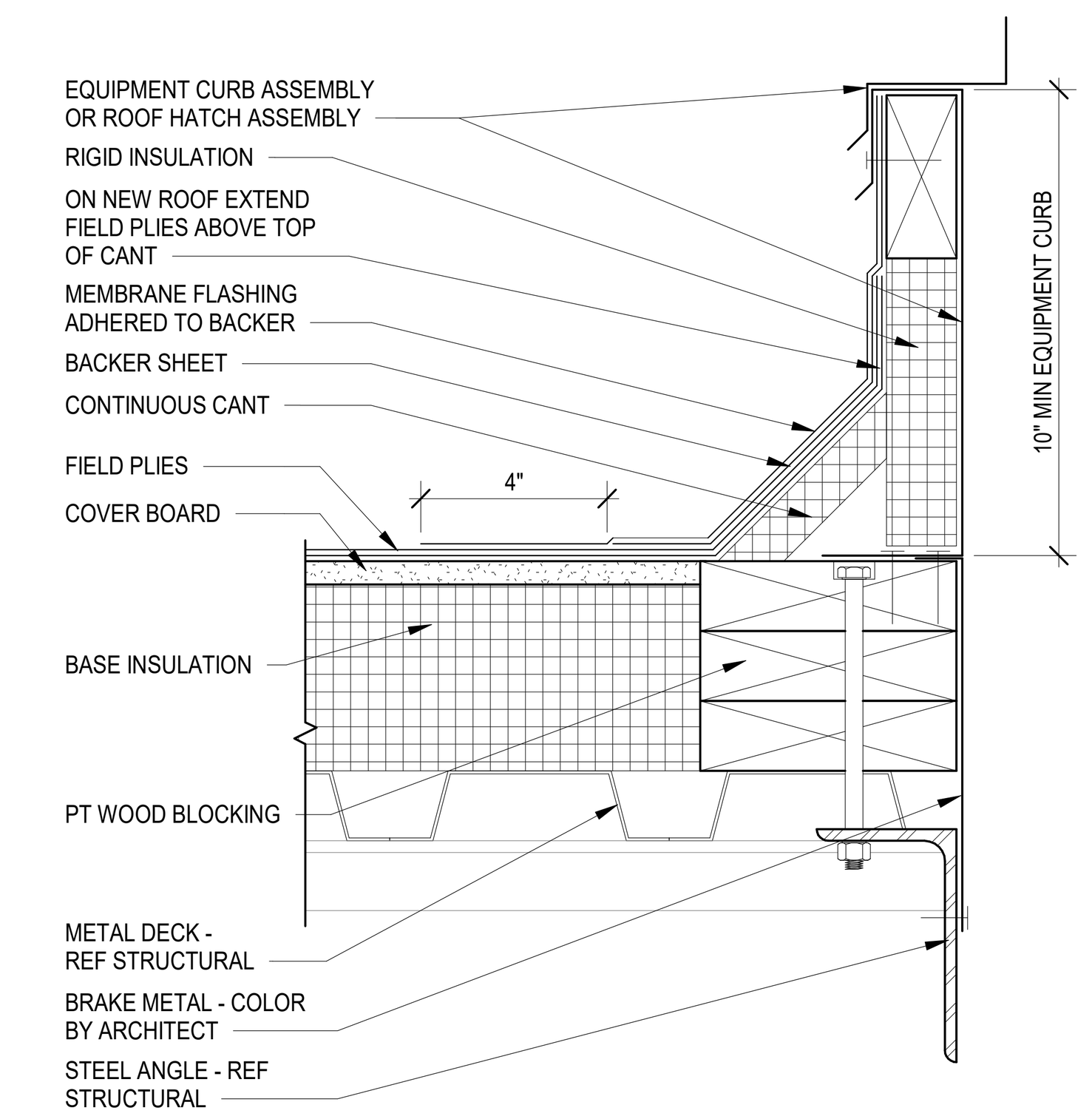
PROVIDE ROOFTOP SCREEN AT SIDES OF RTUs WHICH ARE VISIBLE FROM THE STREET LEVEL.



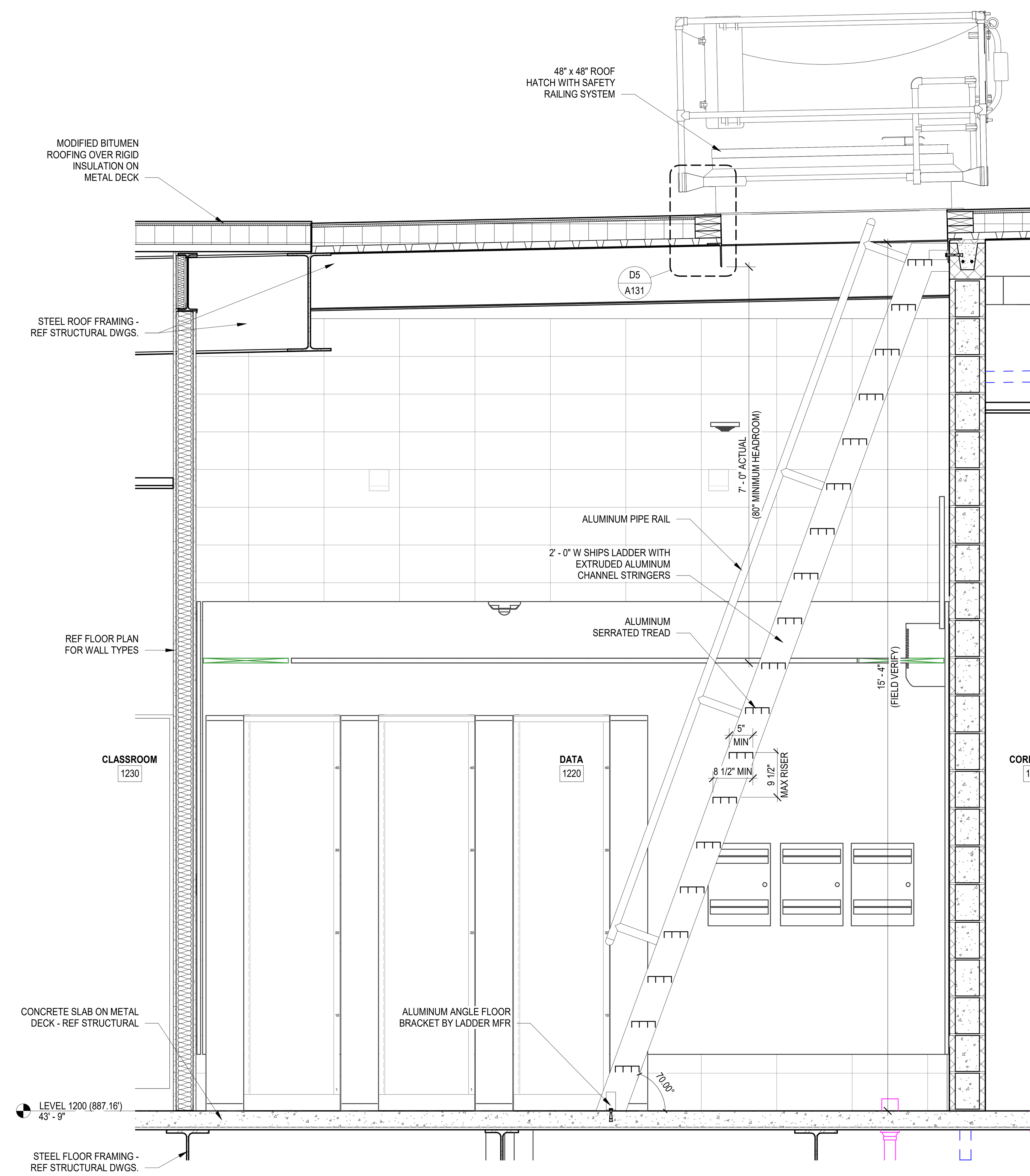
D2 / A131 **ROOFTOP SCREEN**
1/2" = 1'-0"



D4 / A131 **ROOF PIPE PENETRATION DETAIL**
3" = 1'-0"



D5 / A131 **ROOF EQUIPMENT CURB/ROOF HATCH DETAIL**
3" = 1'-0"



A4 / A131 **SHIPS LADDER DETAIL**
3/4" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

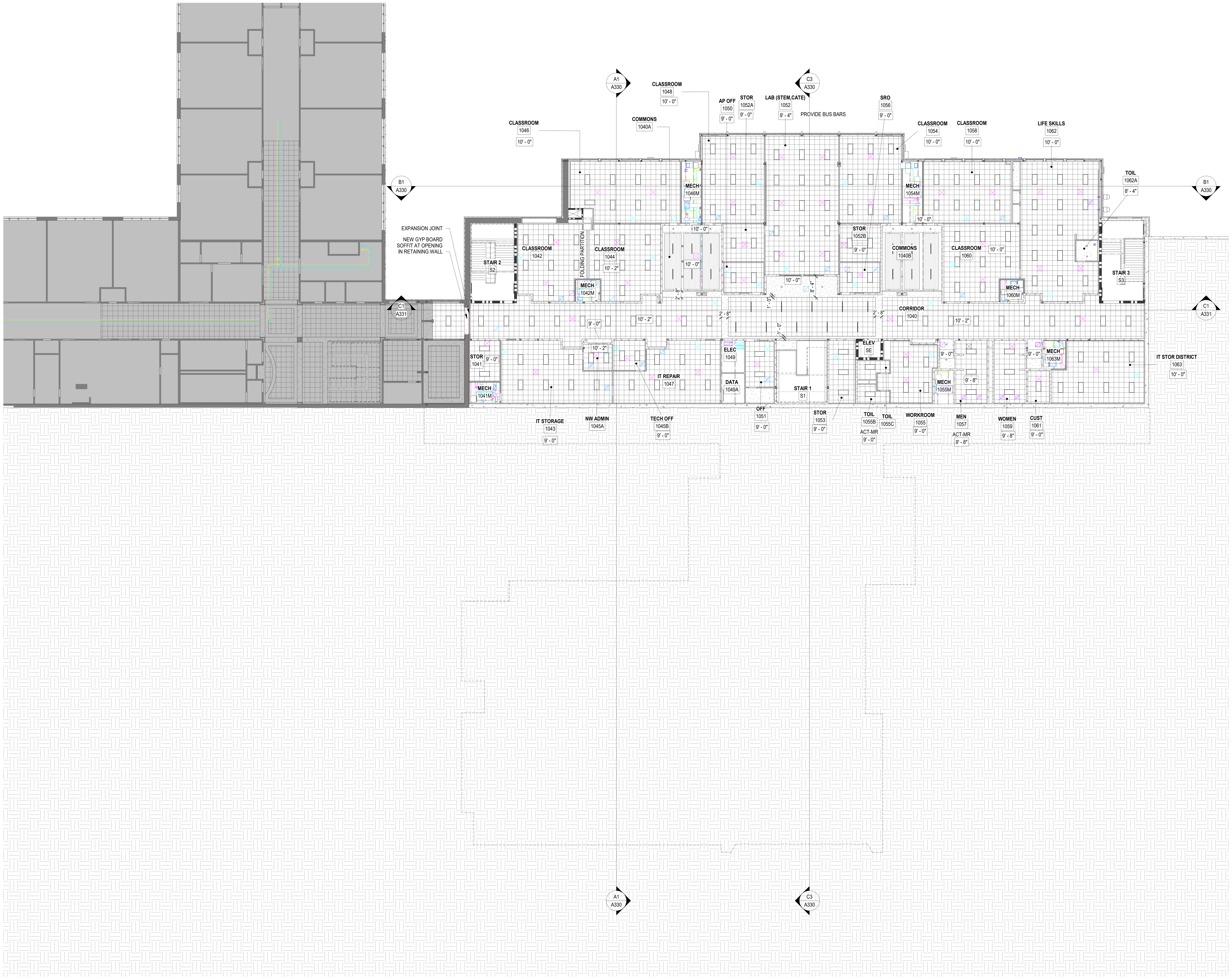
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: MDW

SHEET TITLE:
ROOF DETAILS

SHEET NO. A131

PROJ. NO. 020420.00

1 2 3 4 5



1 A200 **PHASE 2 1000 LEVEL (856.73') - REFLECTED CEILING PLAN**
1/16" = 1'-0"

1 2 3 4 5

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL** - RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL** - WALL LIGHT

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

AREA A AREA B AREA C

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:
1000 LEVEL - OVERALL REFLECTED CEILING PLAN

SHEET NO. PROJ. NO. 020420.00

A200

1 A201 **PHASE 2 1100 LEVEL (871.16') - REFLECTED CEILING PLAN**

1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

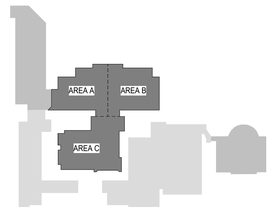
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

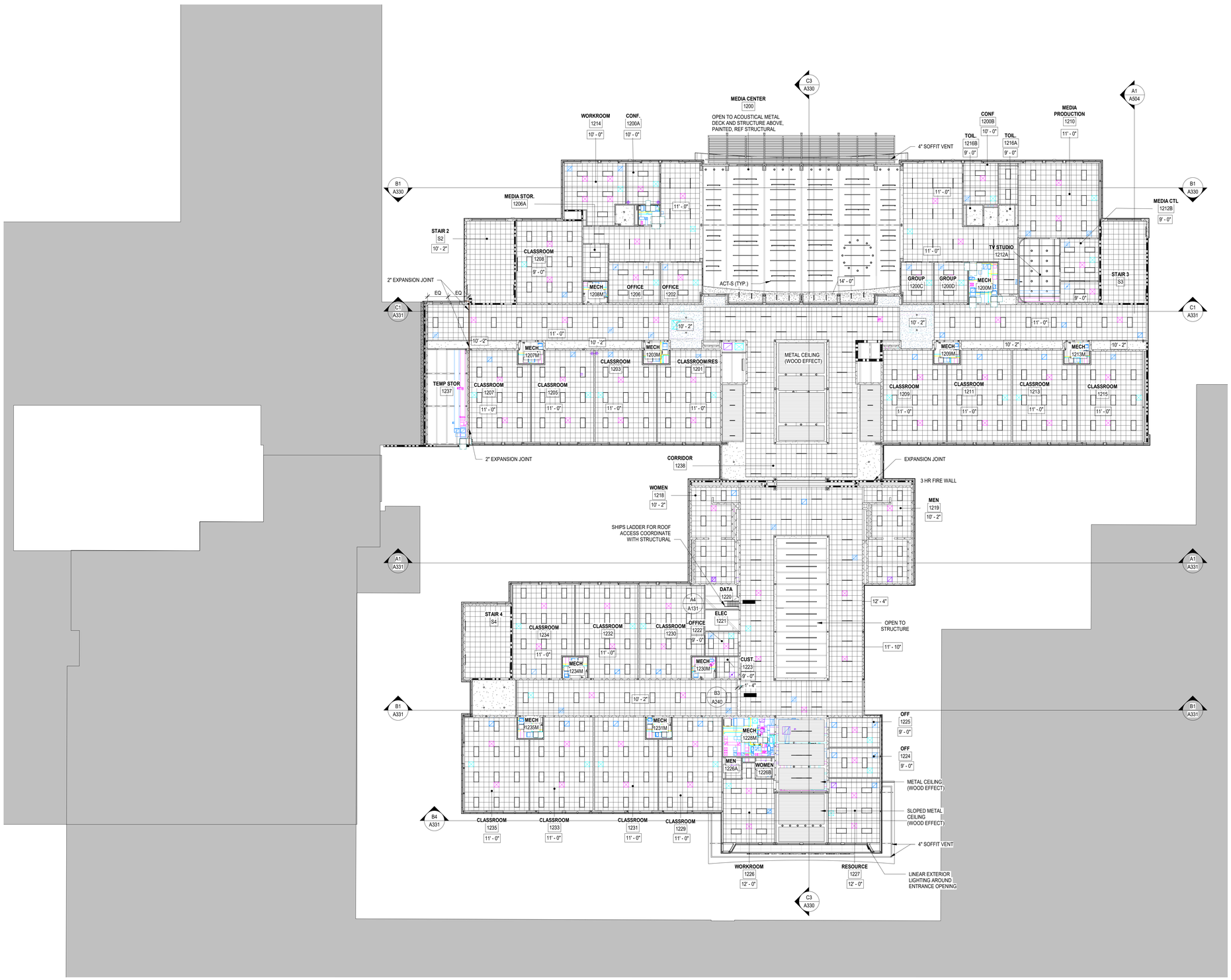
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:
1100 LEVEL - OVERALL REFLECTED CEILING PLAN

SHEET NO. A201

PROJ. NO. 020420.00



1 A202 **PHASE 2 1200 LEVEL (887.16') - REFLECTED CEILING PLAN**

1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

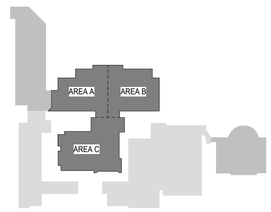
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

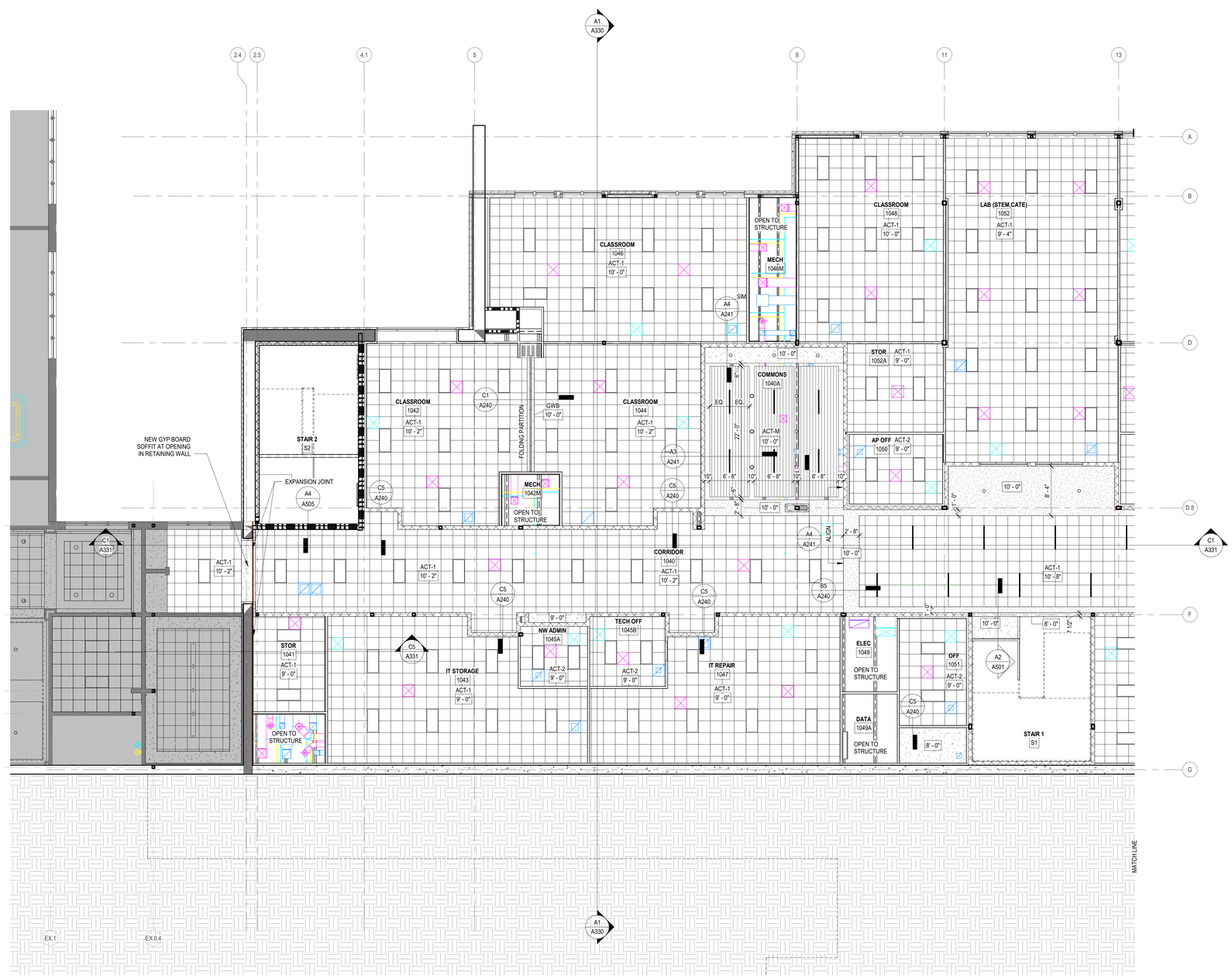
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1200 LEVEL - OVERALL REFLECTED CEILING PLAN

SHEET NO. PROJ. NO. 020420.00

A202



1 A203 **PHASE 2 1000 LEVEL (856.73') - REFLECTED CEILING PLAN_AREA A**

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS.; INFORM ARCHITECT ABOUT ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS COORDINATE WITH ARCHITECT AND ENGINEERS.
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1000 LEVEL - AREA A REFLECTED CEILING PLAN

SHEET NO. A203

PROJ. NO. 020420.00

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL** - RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL** - WALL LIGHT

SHEET KEYNOTES

1 A204 PHASE 2 1000 LEVEL (856.73') - REFLECTED CEILING PLAN_AREA B
1/8" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:
1000 LEVEL - AREA B REFLECTED CEILING PLAN

SHEET NO. A204
PROJ. NO. 020420.00

1 2 3 4 5

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL** - RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL** - WALL LIGHT

SHEET KEYNOTES

1 A205 **PHASE 2 1100 LEVEL (871.16') - REFLECTED CEILING PLAN_AREA A**
1/8" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

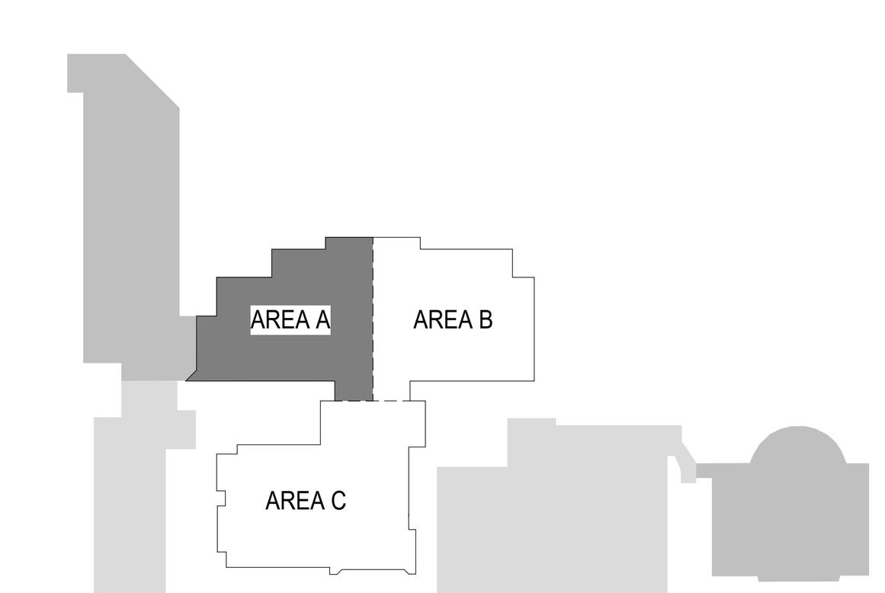
SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY



GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:
1100 LEVEL - AREA A REFLECTED CEILING PLAN

SHEET NO. PROJ. NO. 020420.00

A205

1 2 3 4 5

1 A206 **PHASE 2 1100 LEVEL (871.16') - REFLECTED CEILING PLAN_AREA B**

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1100 LEVEL - AREA B REFLECTED CEILING PLAN

SHEET NO. A206

PROJ. NO. 020420.00

PHASE 2 1100 LEVEL (871.16') - REFLECTED CEILING PLAN_AREA C

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL** - RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL** - WALL LIGHT

SHEET KEYNOTES

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

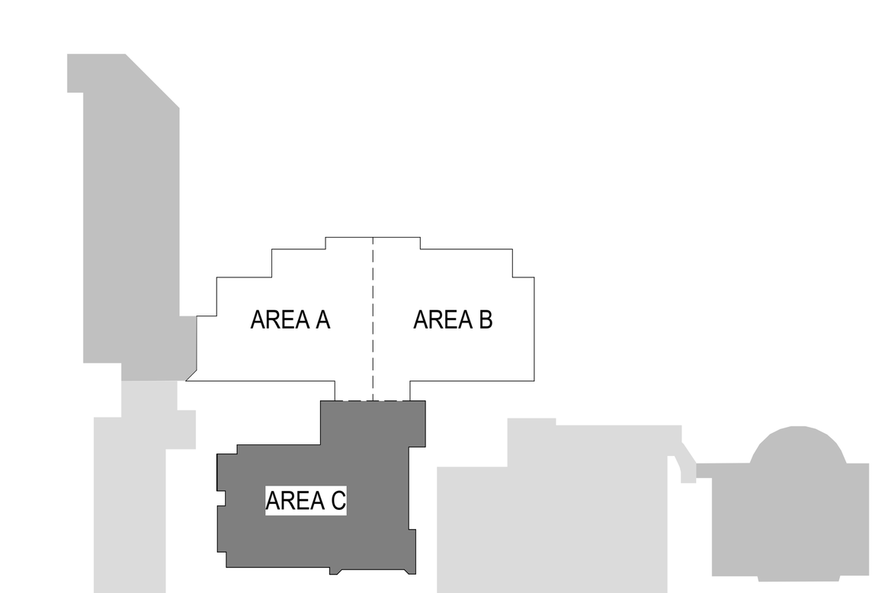
JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY



GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1100 LEVEL - AREA C REFLECTED CEILING PLAN

SHEET NO. A207

PROJ. NO. 020420.00

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION

2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

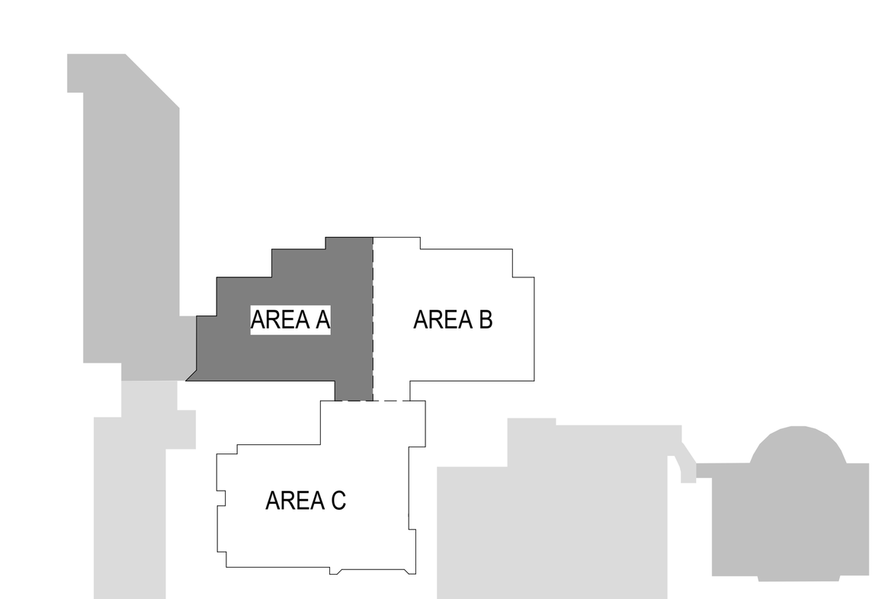
LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES

1 A208 PHASE 2 1200 LEVEL (887.16') - REFLECTED CEILING PLAN_AREA A

1/8" = 1'-0"



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

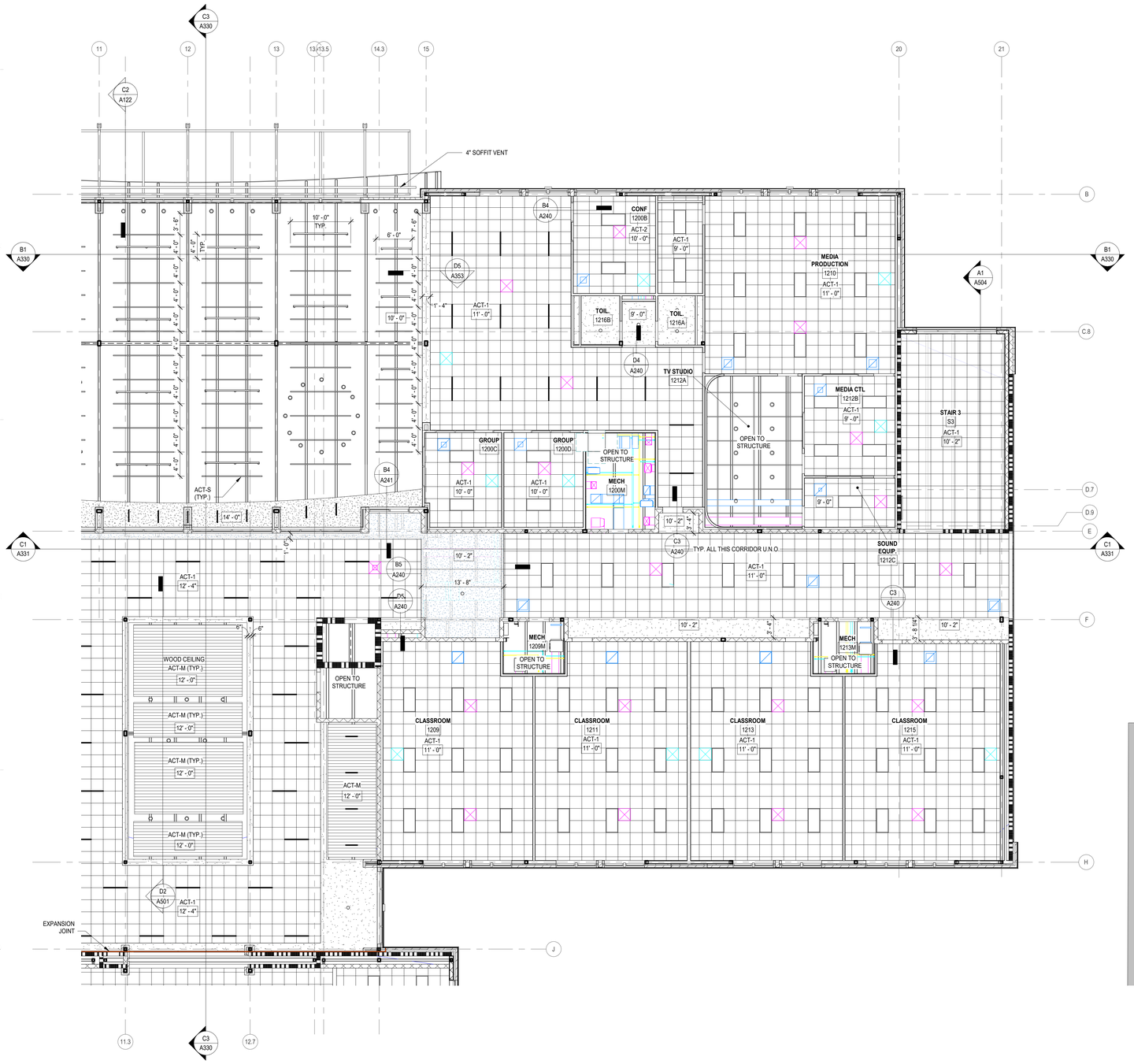
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1200 LEVEL - AREA A REFLECTED CEILING PLAN

SHEET NO. **A208**

PROJ. NO. 020420.00



1 A209 **PHASE 2 1200 LEVEL (887.16') - REFLECTED CEILING PLAN_AREA B**

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

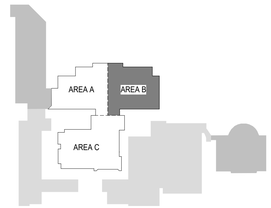
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS

3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

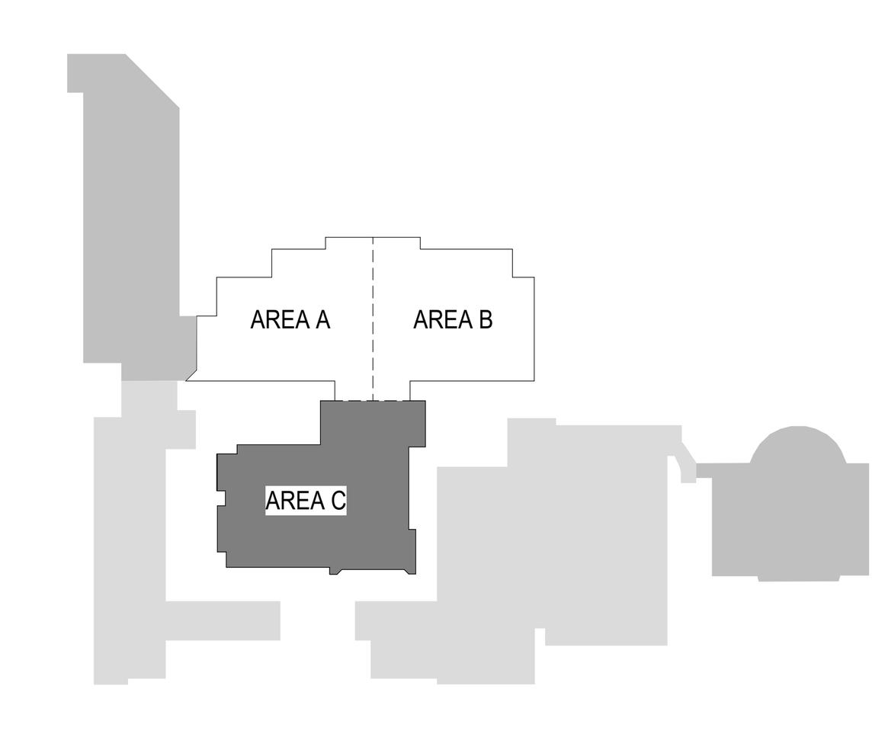
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

1200 LEVEL - AREA B REFLECTED CEILING PLAN

SHEET NO. A209

PROJ. NO. 020420.00



PHASE 2 1200 LEVEL (887.16') - REFLECTED CEILING PLAN_AREA C

1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL CEILINGS WITH ELECTRICAL AND MECHANICAL DWGS. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
2. INSTALL CEILINGS PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH ARCHITECT AND ENGINEERS
3. ALL CEILING PLAN TAG DIMENSIONS ARE FROM ABOVE FINISHED FLOOR.

LEGEND

- SMOKE PARTITION (SMOKE TIGHT)
- RATED - 1 HOUR
- RATED - 2 HOUR
- RATED - 3 HOUR
- SUPPLY AIR DEVICE
- RETURN/EXHAUST AIR DEVICE
- CEILING MOUNTED EXHAUST FAN
- 2 X 2 ACOUSTICAL LAY-IN CEILING
- METAL CEILING (WOOD EFFECT), SUSPENDED (ARMSTRONG METALWORKS 6" LINEAR, MICROPERFORATED
- GYPSUM BOARD CEILING
- BAFFLES, 16" DEEP, SUSPENDED
- 2 X 4 LAY-IN LIGHT FIXTURE
- 2 X 2 LAY-IN LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- DIA. SUSPENDED CYLINDER LIGHT FIXTURE
- LAY-IN LINEAR LIGHT, INTEGRATED IN GRID/ GYP. BD
- **RWL -** RECESSED LINEAR WALL LIGHT
- SUSPENDED LINEAR LIGHT
- **WL -** WALL LIGHT

SHEET KEYNOTES

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	MLC

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FOR PRICING ONLY

GMP SET 06/01/22

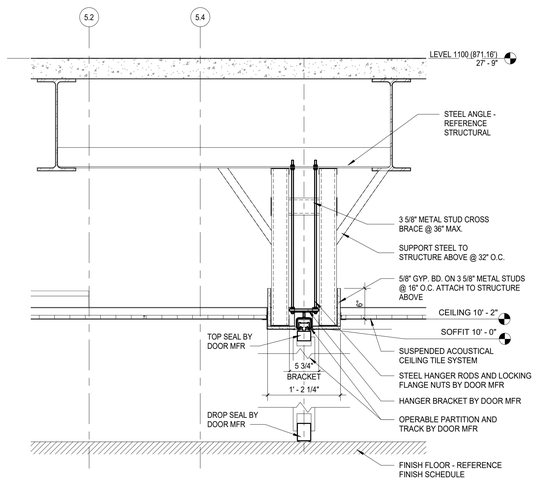
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL

SHEET TITLE:

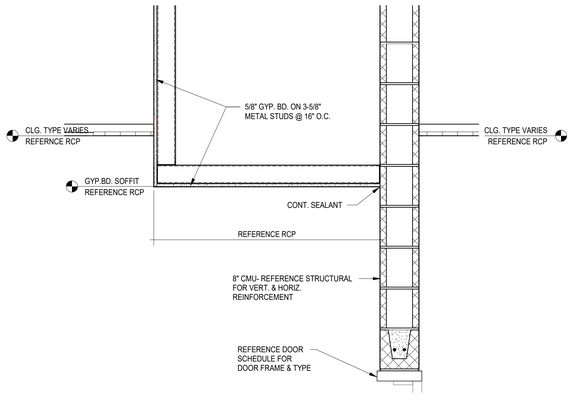
1200 LEVEL - AREA C REFLECTED CEILING PLAN

SHEET NO. A210

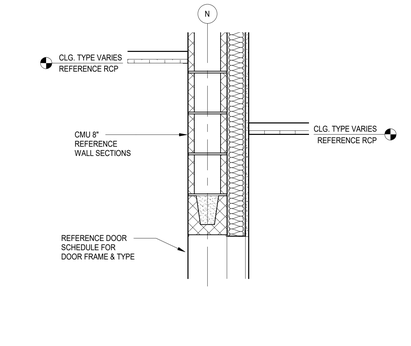
PROJ. NO. 020420.00



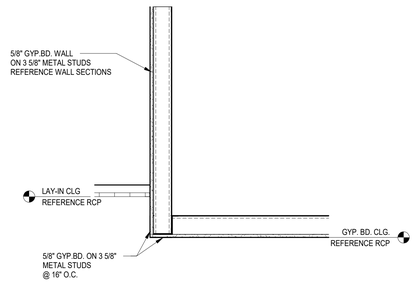
C1 / A240 **CEILING DETAIL - FOLDING PARTITION**
1" = 1'-0"



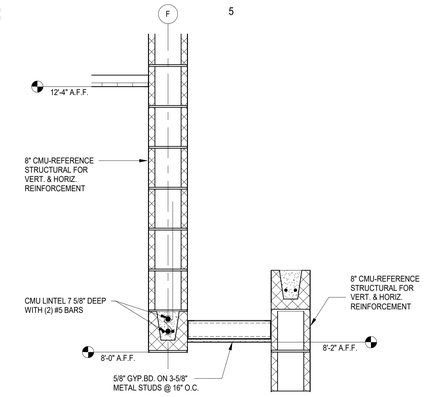
C3 / A240 **CEILING DETAIL 8**
1" = 1'-0"



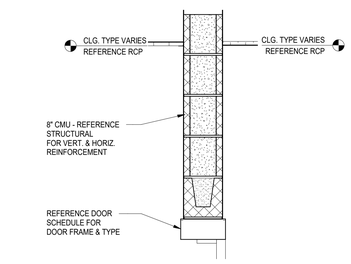
C4 / A240 **CEILING DETAIL 12**
1" = 1'-0"



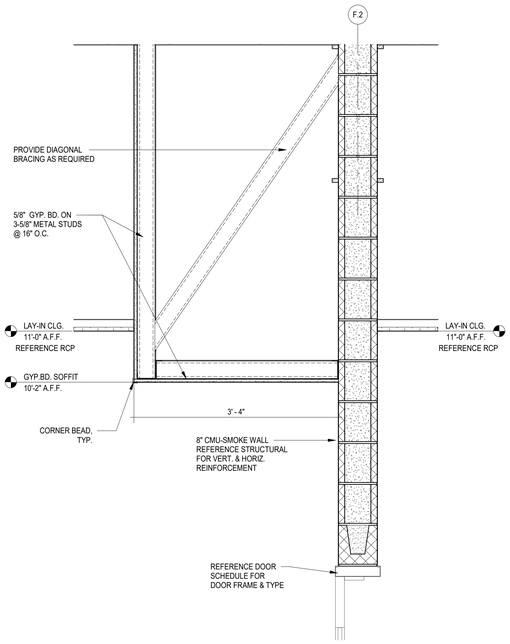
D4 / A240 **CEILING DETAIL 11**
1" = 1'-0"



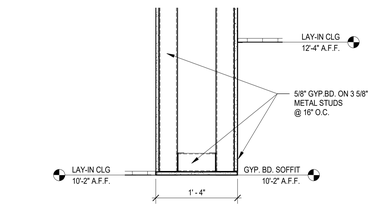
D5 / A240 **CEILING DETAIL 9**
1" = 1'-0"



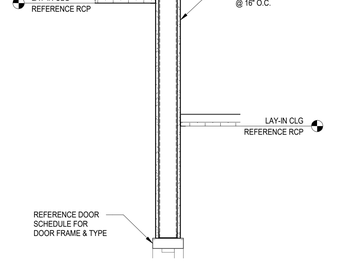
C5 / A240 **CEILING DETAIL**
1" = 1'-0"



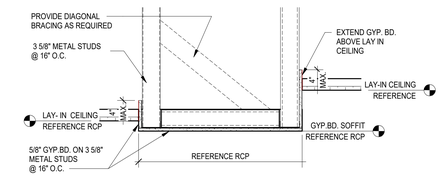
A2 / A240 **CEILING DETAIL 10**
1" = 1'-0"



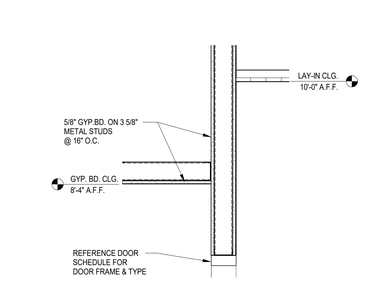
B3 / A240 **CEILING DETAIL 7**
1" = 1'-0"



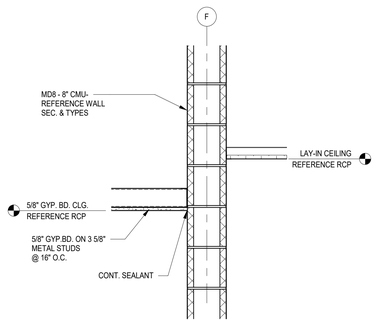
B4 / A240 **CEILING DETAIL 6**
1" = 1'-0"



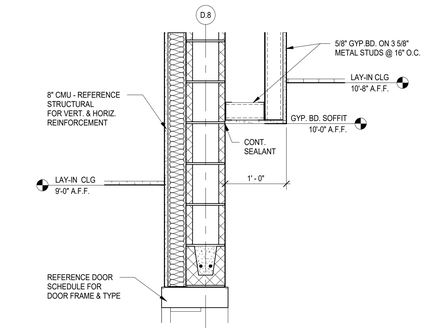
B5 / A240 **CEILING DETAIL 2**
1" = 1'-0"



A3 / A240 **CEILING DETAIL 5**
1" = 1'-0"



A4 / A240 **CEILING DETAIL 4**
1" = 1'-0"



A5 / A240 **CEILING DETAIL 3**
1" = 1'-0"

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

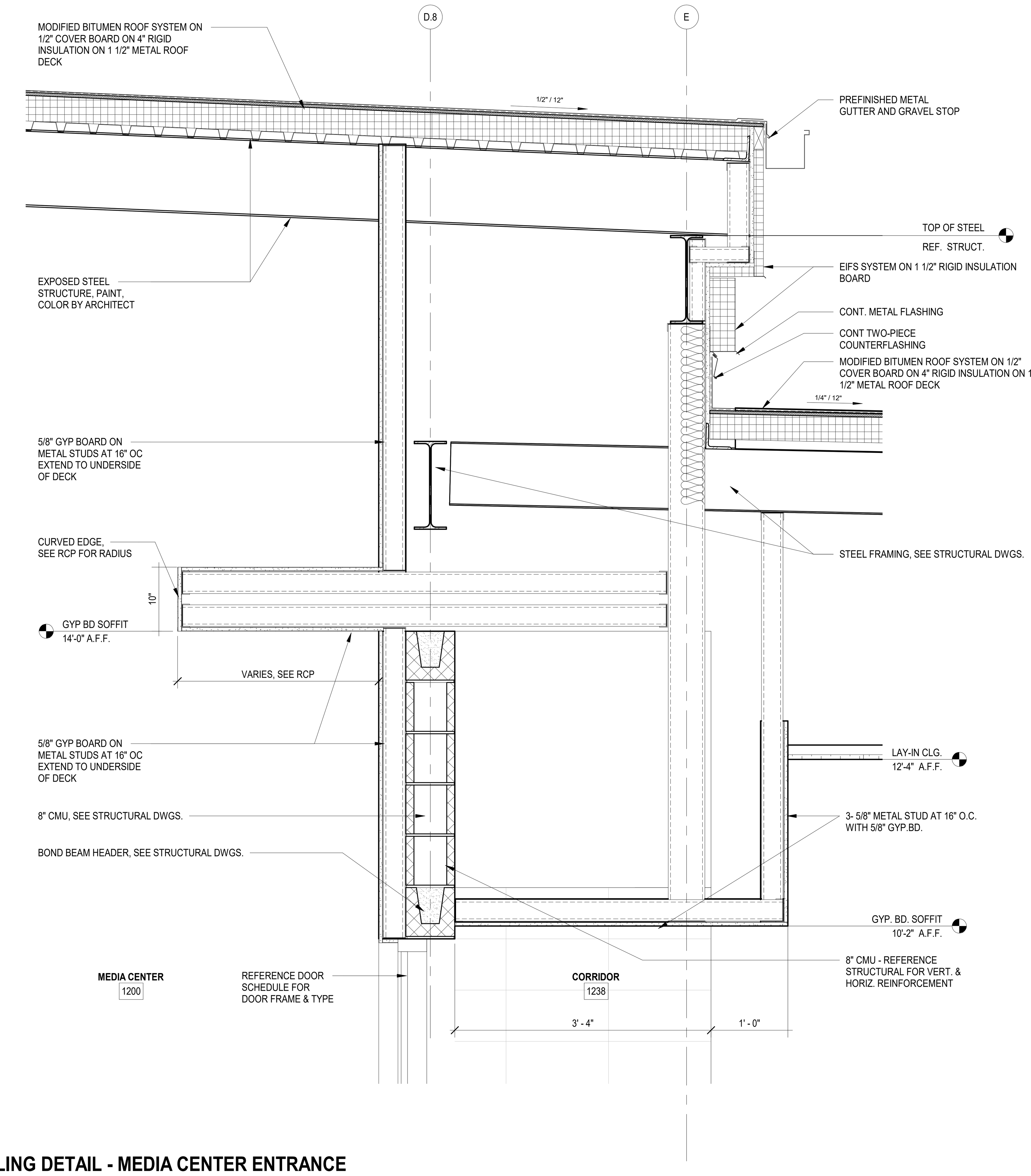
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM,KFL,SEA

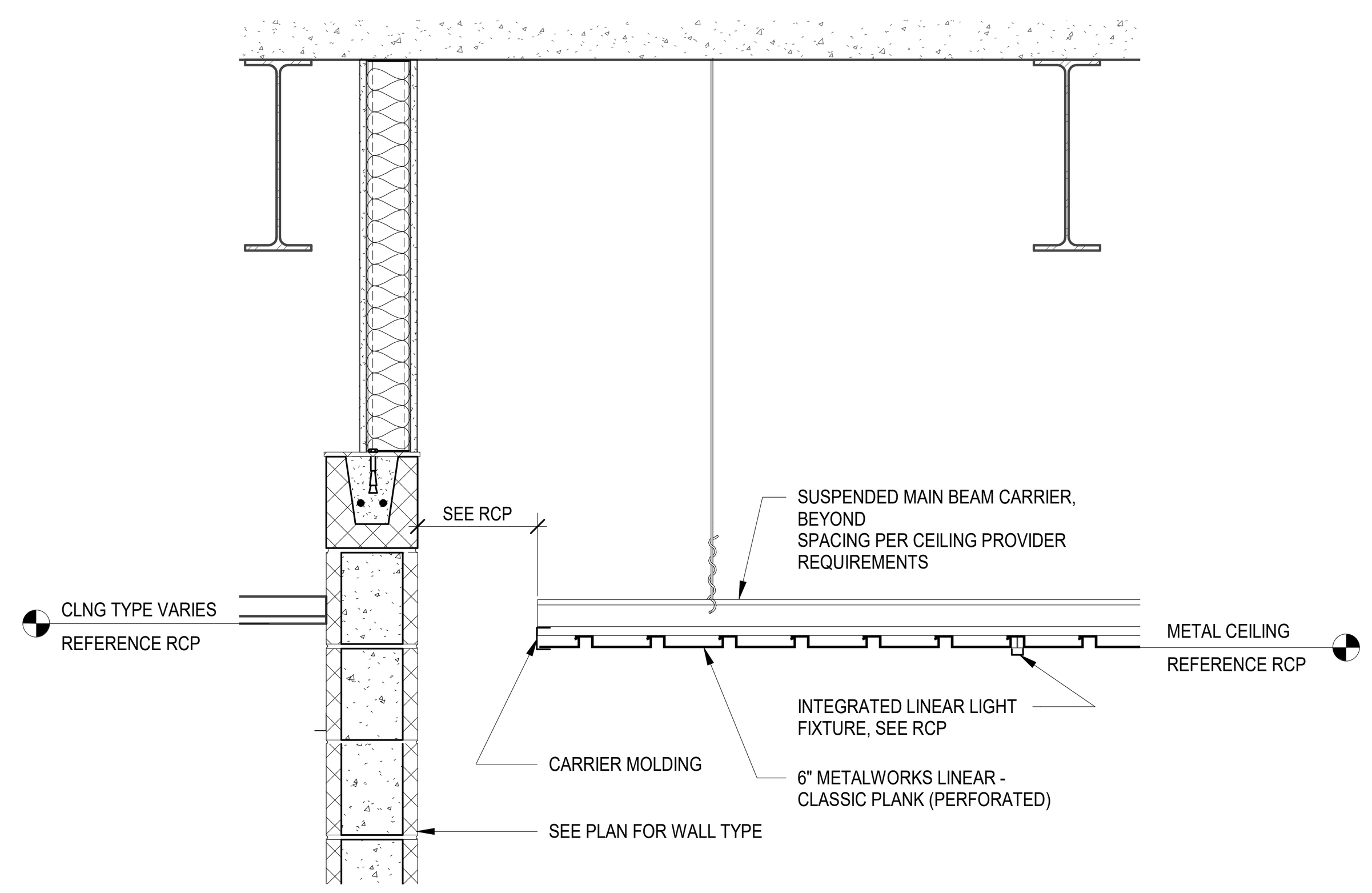
SHEET TITLE:
CEILING DETAILS

SHEET NO. A240
PROJ. NO. 020420.00

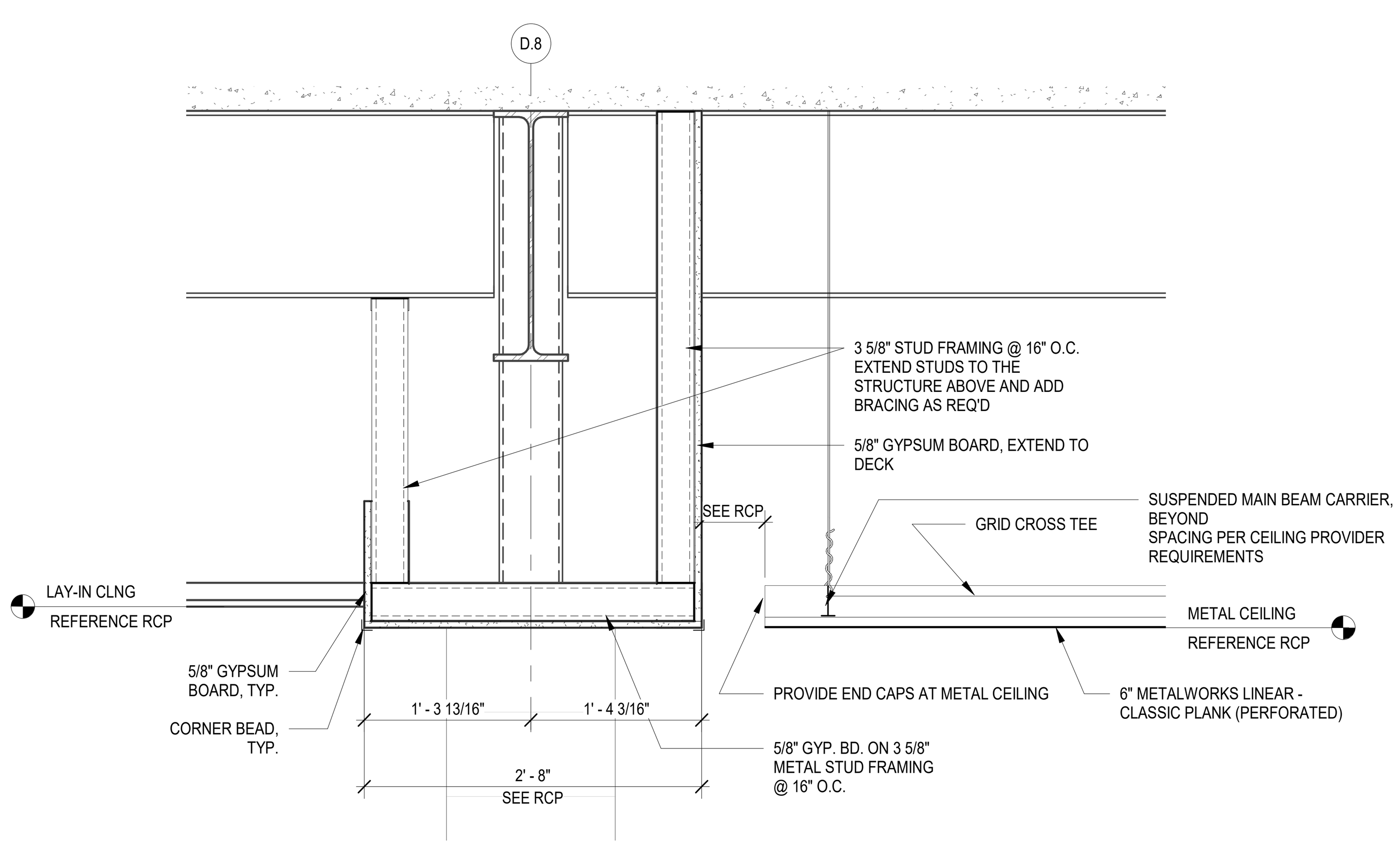
6/1/2022 4:24:36 PM BIM 360://020420.00_Byrnes HS - Phase 2/Arch_Byrnes HS_Phase 2_R21.rvt



B4
A241
CEILING DETAIL - MEDIA CENTER ENTRANCE
1" = 1'-0"



A3
A241
CEILING DETAIL - COMMONS
1" = 1'-0"



A4
A241
CEILING DETAIL - COMMONS 01
1" = 1'-0"

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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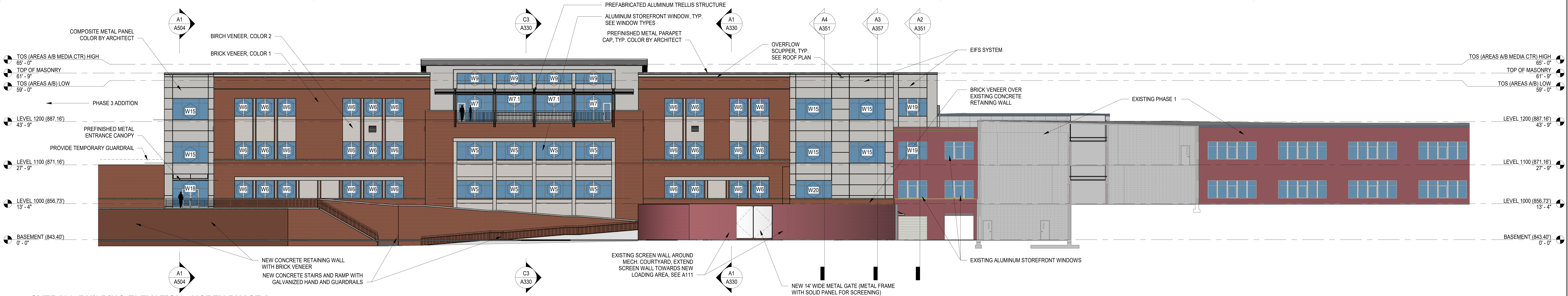
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

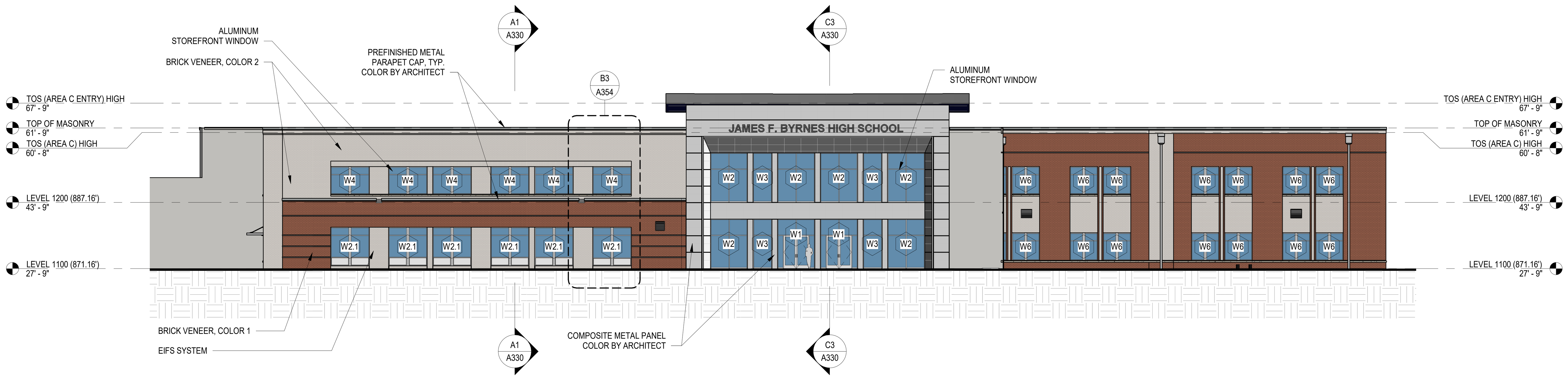
SHEET TITLE:
CEILING DETAILS

SHEET NO.
PROJ. NO.
020420.00

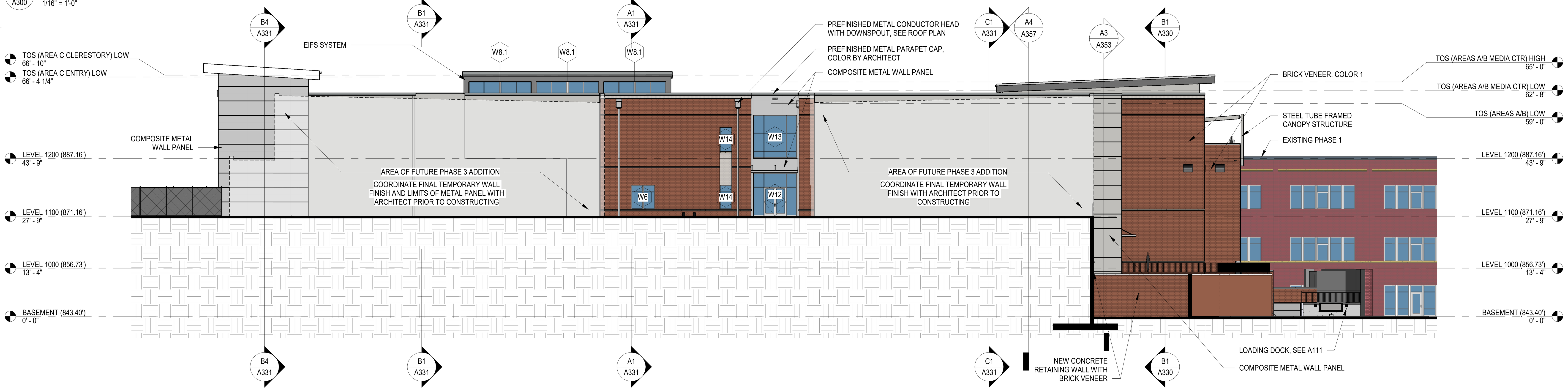
A241



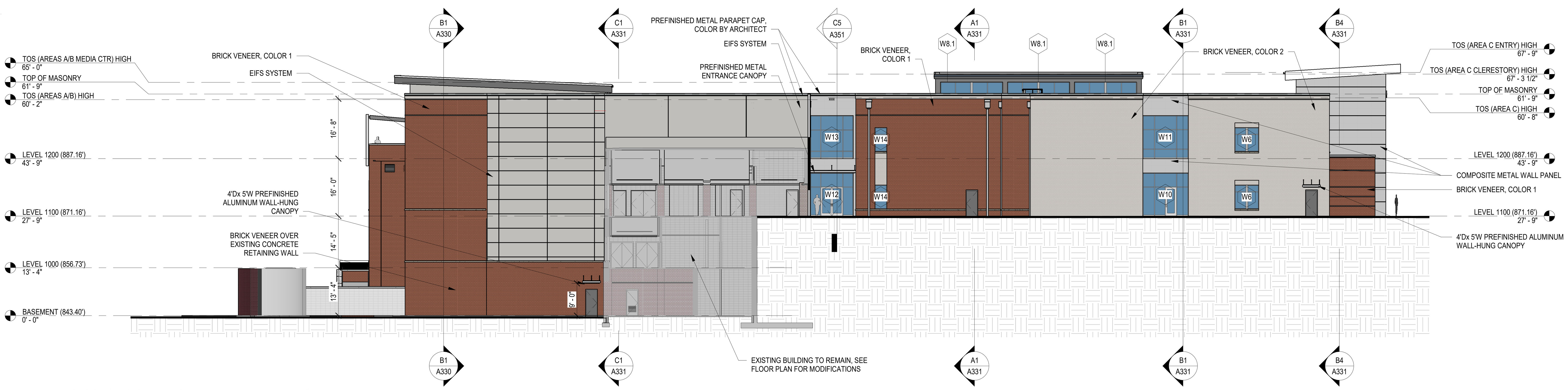
D1 A300 **OVERALL BUILDING ELEVATION - NORTH PHASE 2**
1/16" = 1'-0"



C1 A300 **OVERALL BUILDING ELEVATION - SOUTH PHASE 2**
1/16" = 1'-0"



B1 A300 **OVERALL BUILDING ELEVATION - EAST - PHASE 2**
1/16" = 1'-0"



A1 A300 **OVERALL BUILDING ELEVATION - WEST - PHASE 2**
1/16" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
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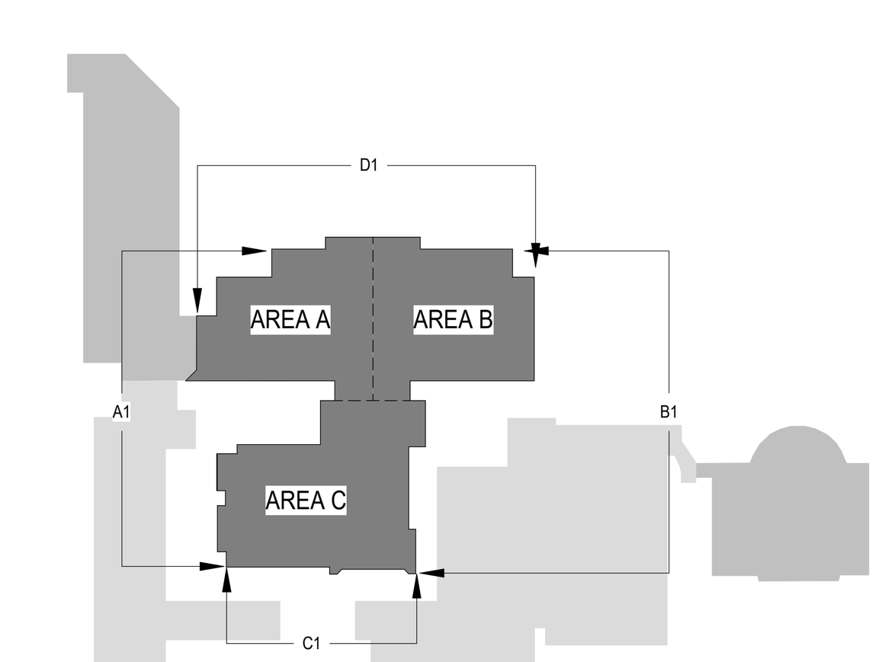
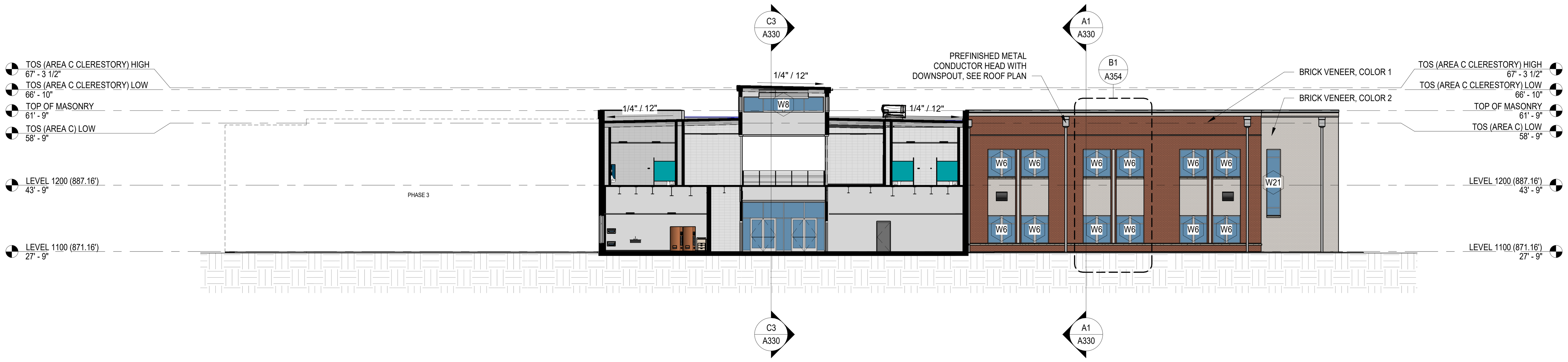


GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:
BUILDING ELEVATIONS - OVERALL

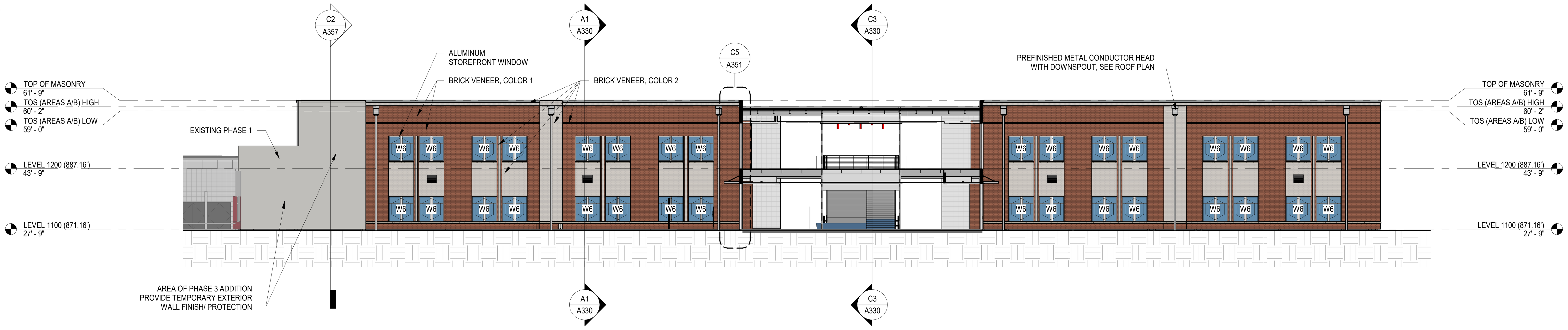
SHEET NO. A300
PROJ. NO. 020420.00



D1
A301

BUILDING ELEVATION - COURTYARD NORTH

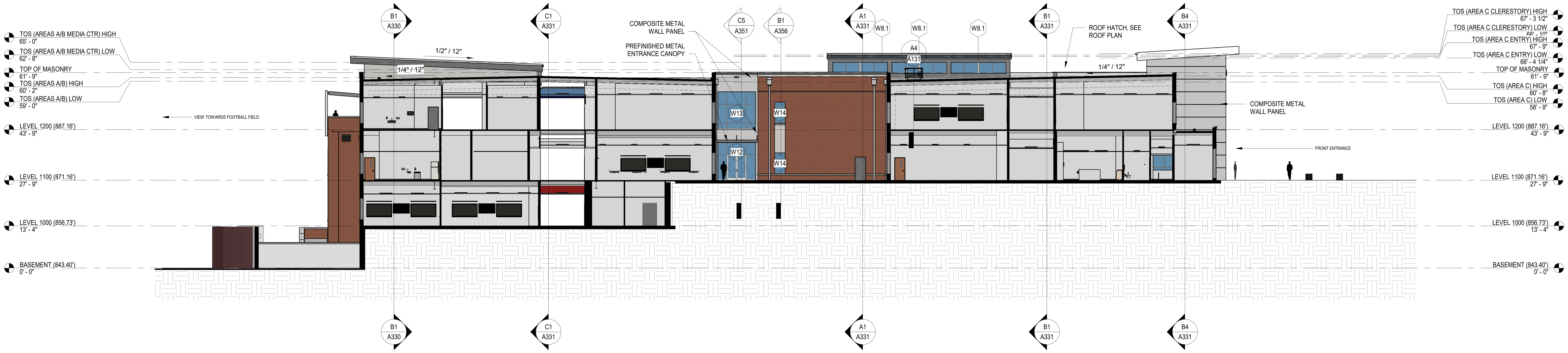
1/16" = 1'-0"



C1
A301

BUILDING ELEVATION - COURTYARD SOUTH

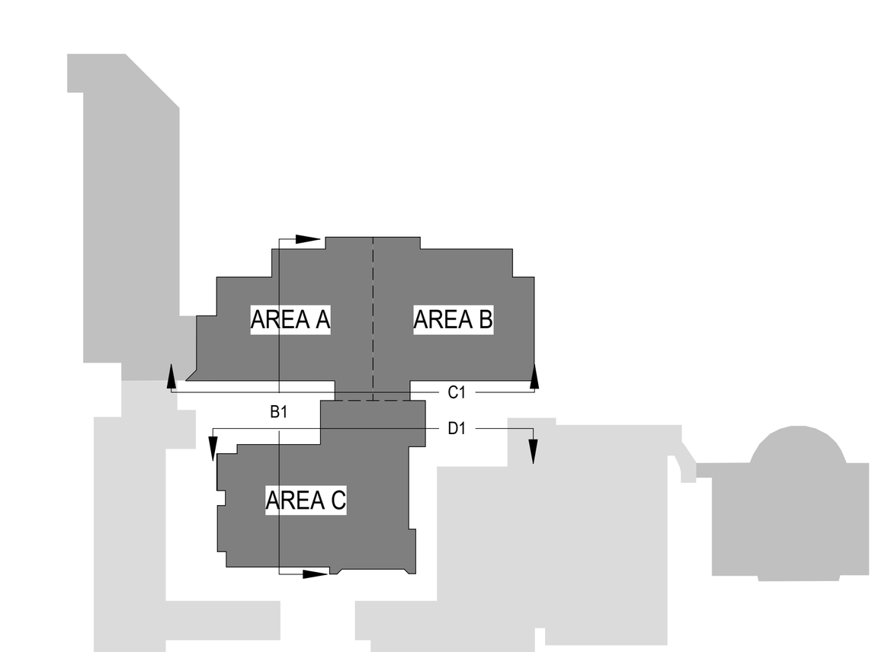
1/16" = 1'-0"



B1
A301

BUILDING ELEVATION - COURTYARD WEST

1/16" = 1'-0"



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ARCHITECTURE

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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FOR PRICING ONLY

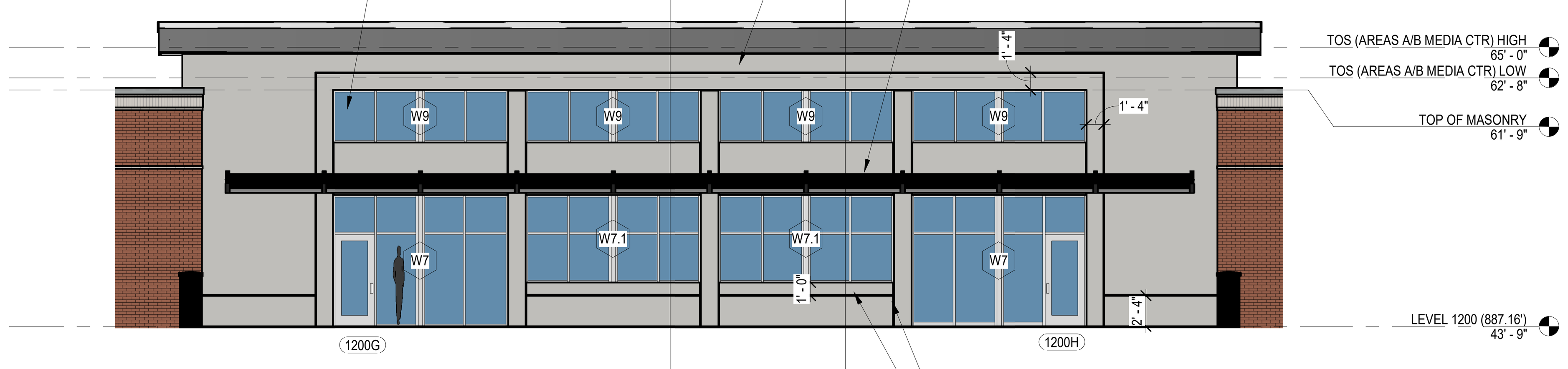
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

SHEET TITLE:
BUILDING ELEVATIONS/SECTIONS - OVERALL

SHEET NO.
A301

PROJ. NO.
020420.00

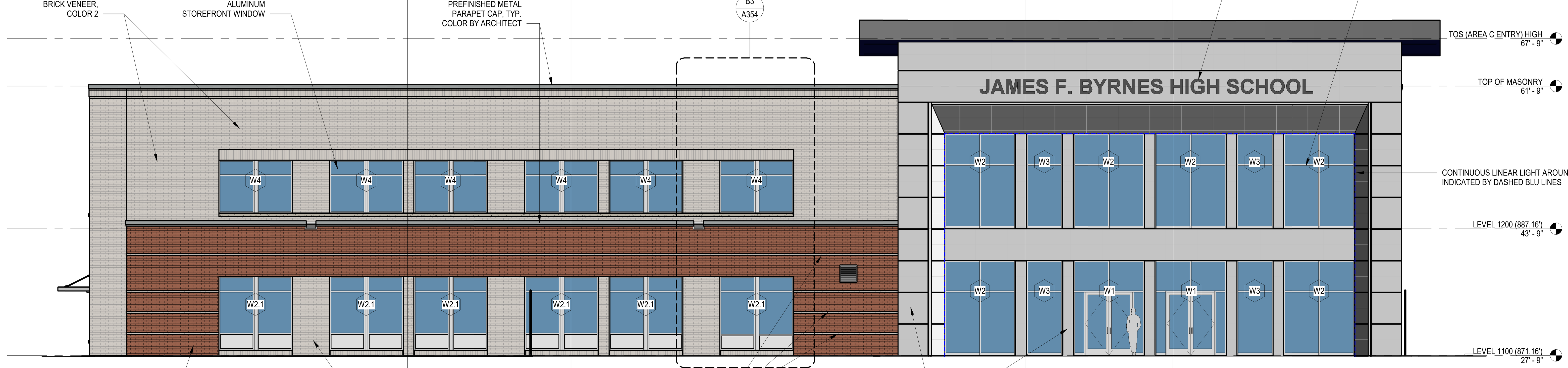


D1 A310 **ENLARGED/ PARTIAL BUILDING ELEVATION - BALCONY**

1/8" = 1'-0"

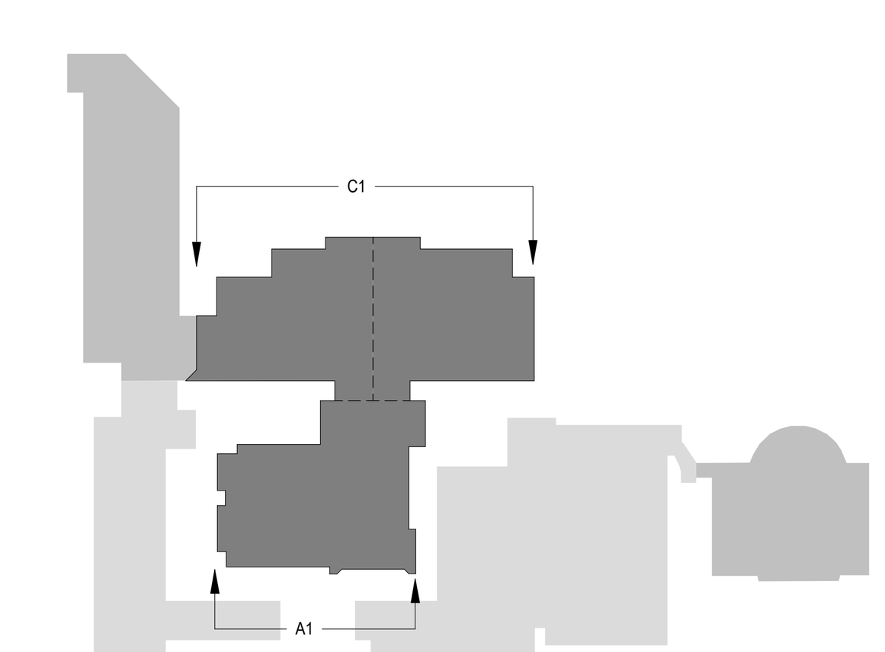
C1 A310 **ENLARGED BUILDING ELEVATION - NORTH**

1/8" = 1'-0"



A1 A310 **ENLARGED BUILDING ELEVATION - SOUTH**

1/8" = 1'-0"



PROJECT NORTH

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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C	06/01/22	GMP SET	MLC

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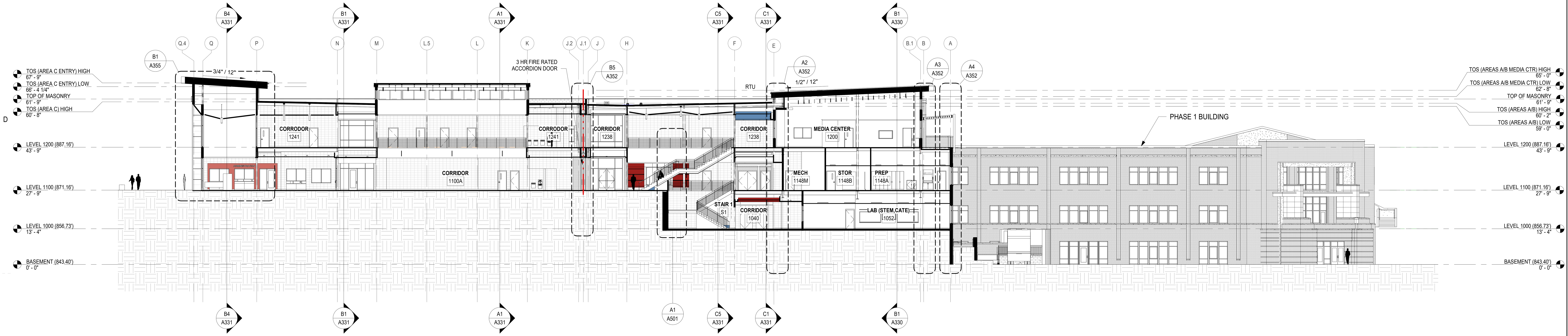
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

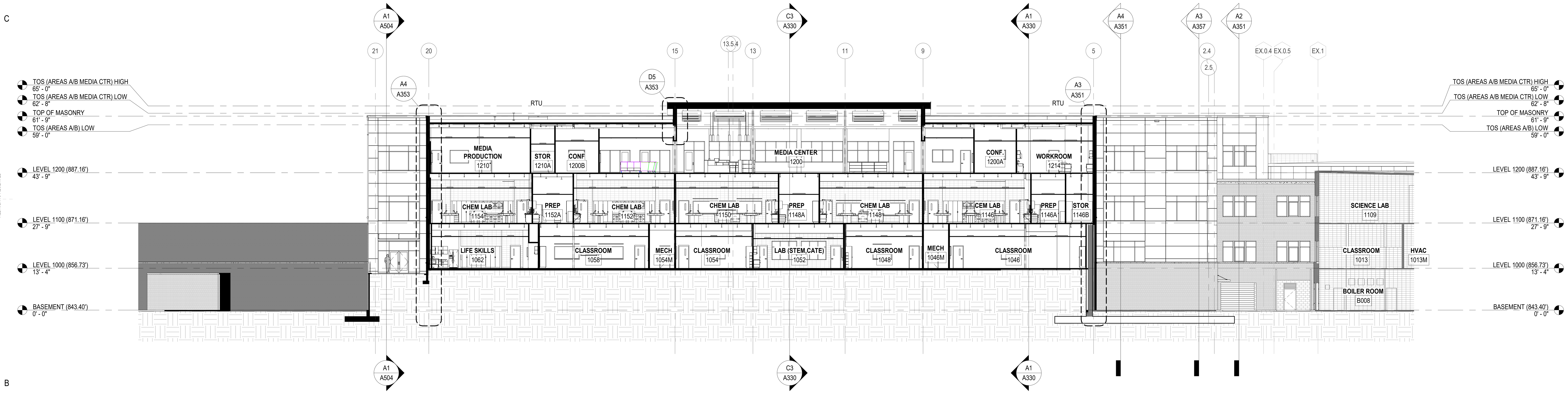
SHEET TITLE:
BUILDING ELEVATIONS - ENLARGED

SHEET NO. A310

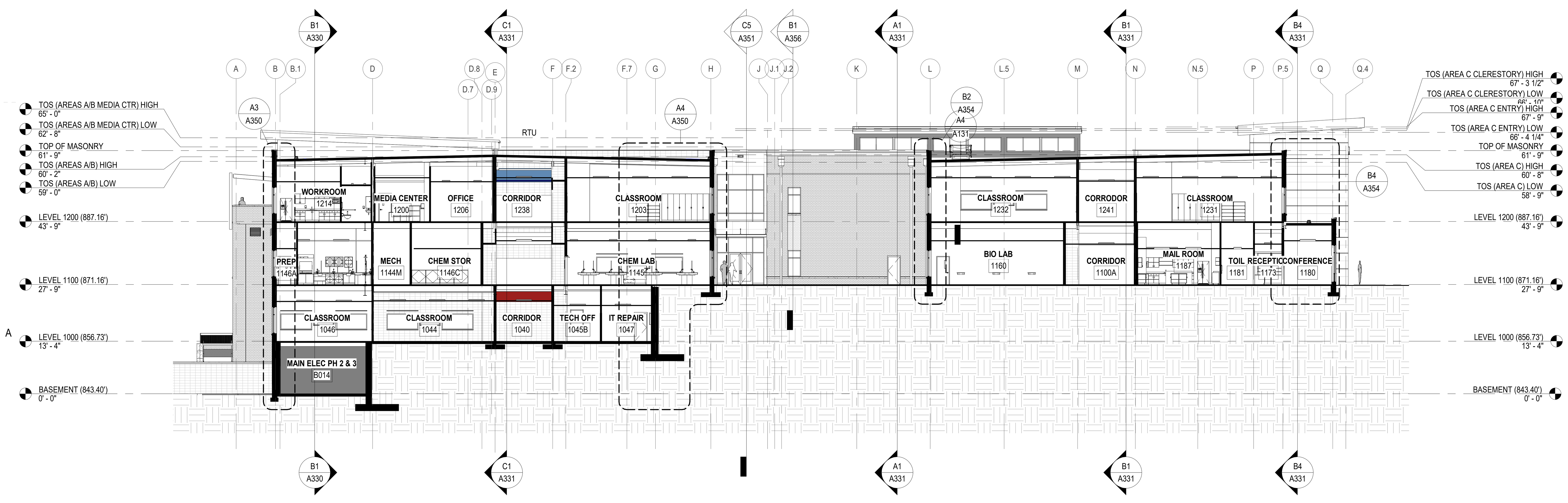
PROJ. NO. 020420.00



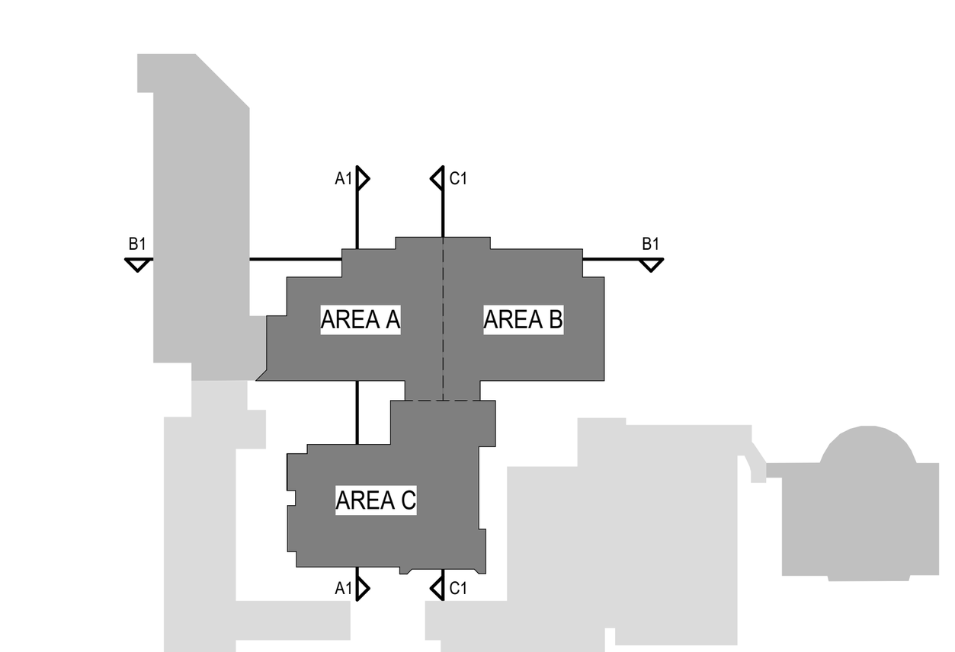
C3 A330
BUILDING SECTION 01
1/16" = 1'-0"



B1 A330
BUILDING SECTION 02
1/16" = 1'-0"



A1 A330
BUILDING SECTION 03
1/16" = 1'-0"



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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
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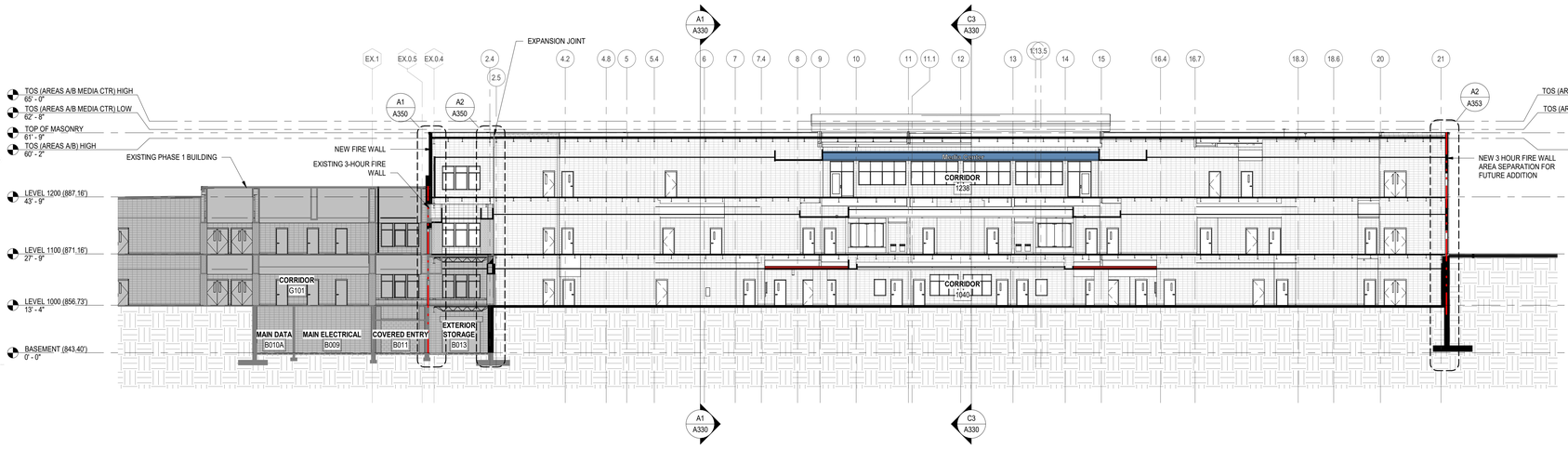
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

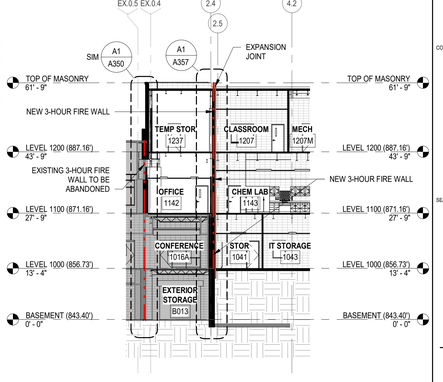
SHEET TITLE:
BUILDING SECTIONS

SHEET NO.
PROJ. NO. 020420.00

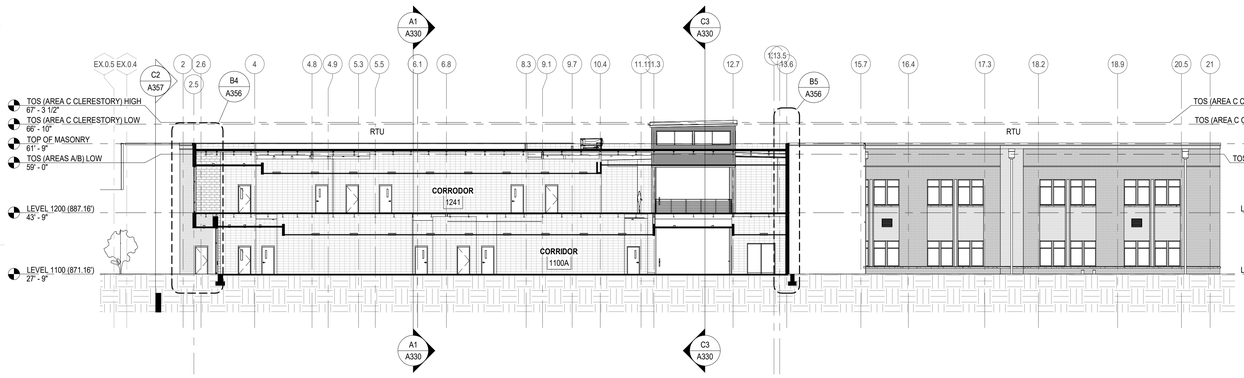
A330

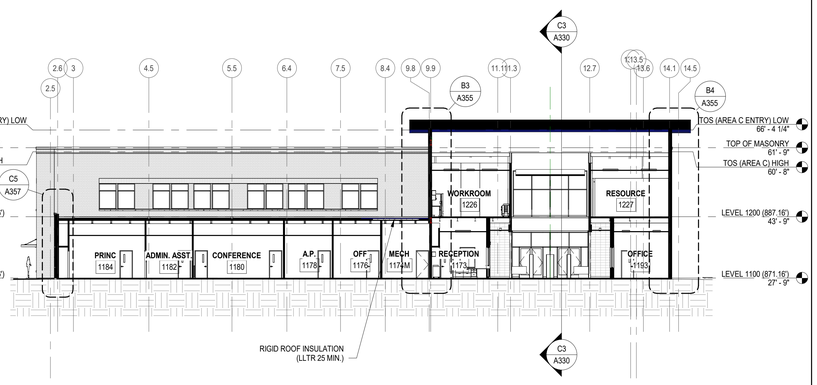


C1 A331 **BUILDING SECTION 04**
1/16" = 1'-0"

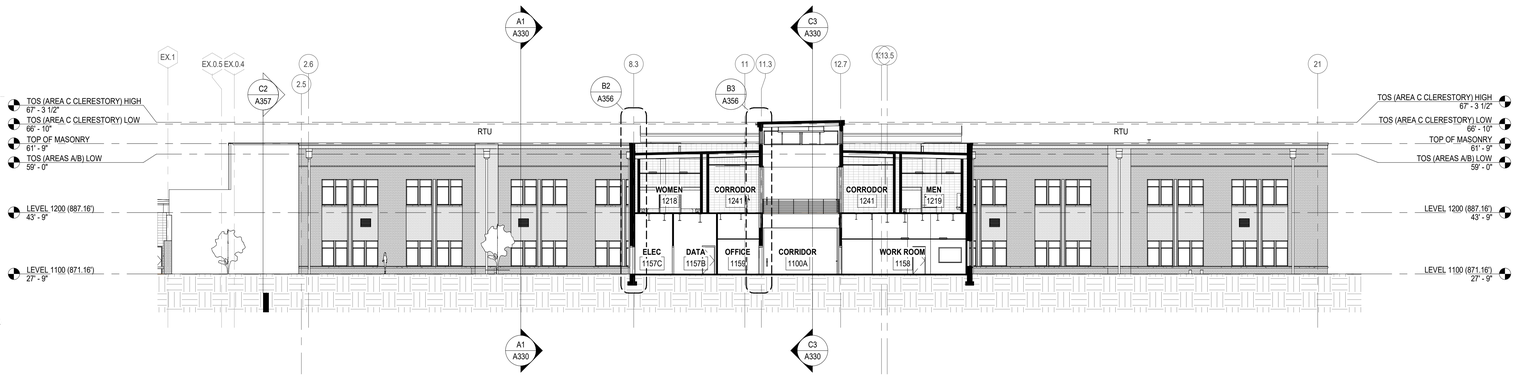


C5 A331 **BUILDING SECTION**
1/16" = 1'-0"

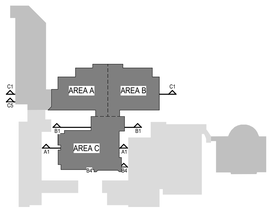




B1 A331 **BUILDING SECTION 06**
1/16" = 1'-0"



B4 A331 **BUILDING SECTION 06 - ENTRANCE**
1/16" = 1'-0"



A1 A331 **BUILDING SECTION 05**
1/16" = 1'-0"

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
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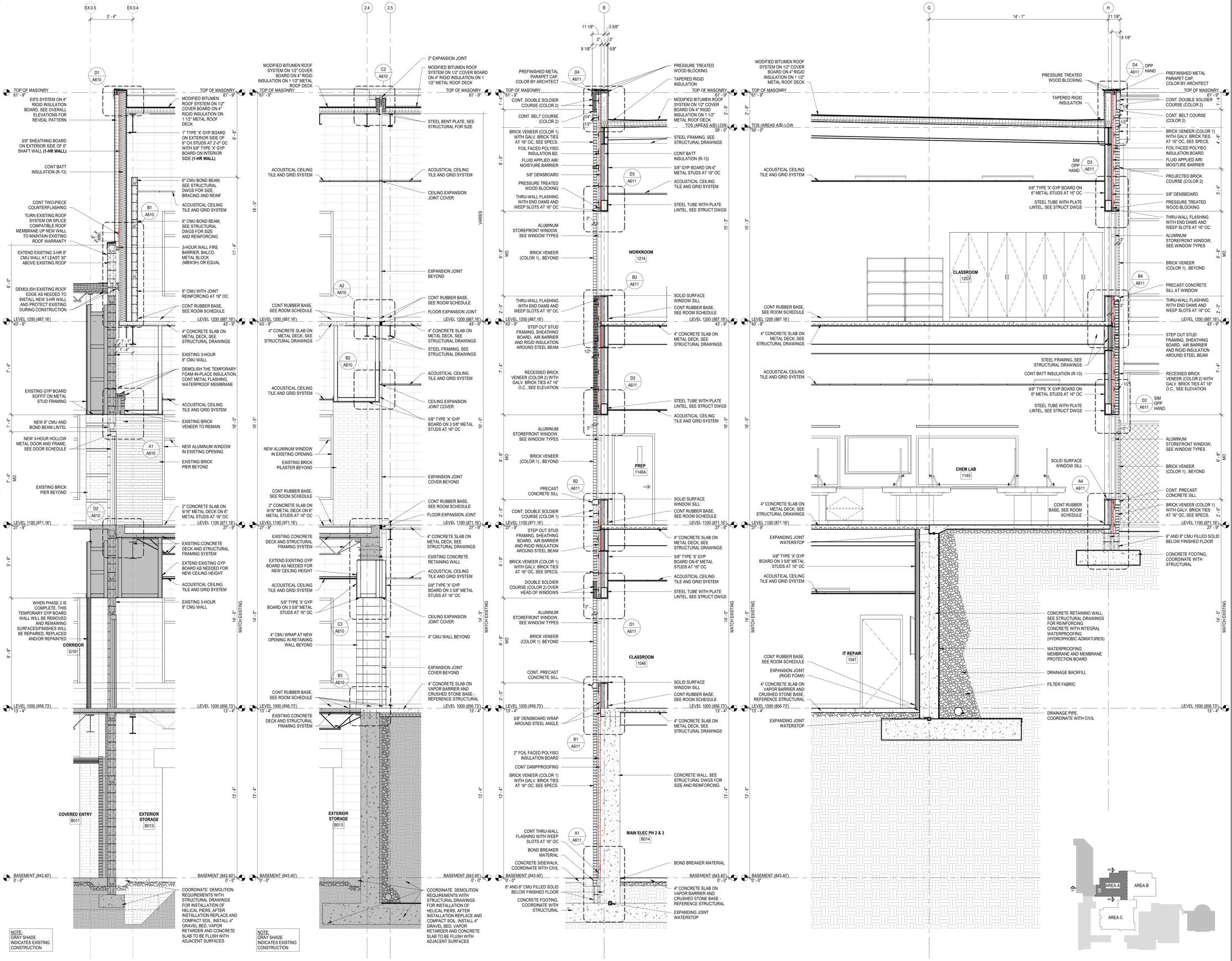
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

SHEET TITLE:
BUILDING SECTIONS

SHEET NO. PROJ. NO. 020420.00

A331



A1 / A350 **WALL SECTION** 3/8" = 1'-0"

A2 / A350 **WALL SECTION** 3/8" = 1'-0"

A3 / A350 **WALL SECTION** 3/8" = 1'-0"

A4 / A350 **WALL SECTION** 3/8" = 1'-0"

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CONSULTANT LOGO
SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

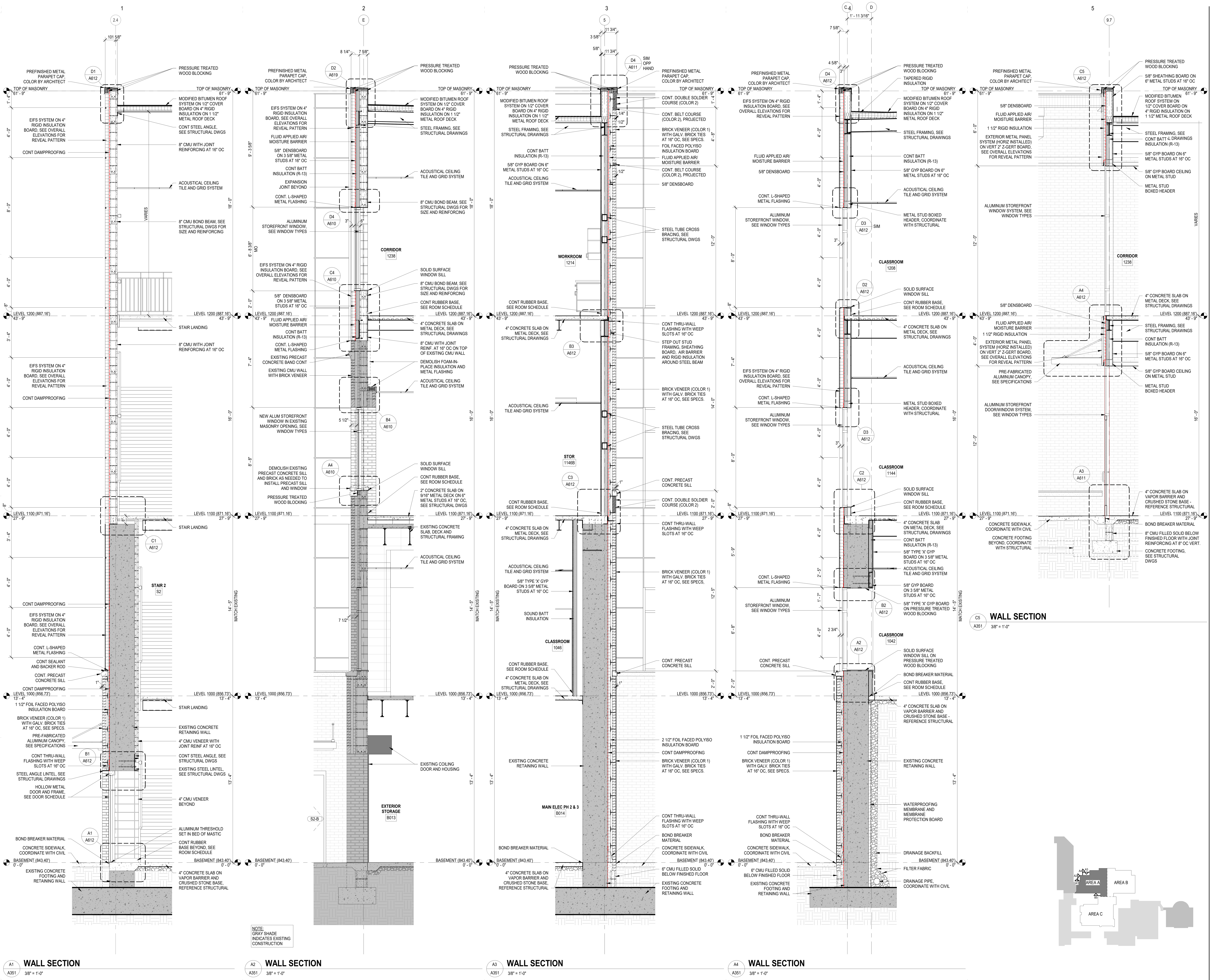
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:
WALL SECTIONS - AREA A

SHEET NO. A350

PROJ. NO. 020420.00



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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

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GMP SET 06/01/22

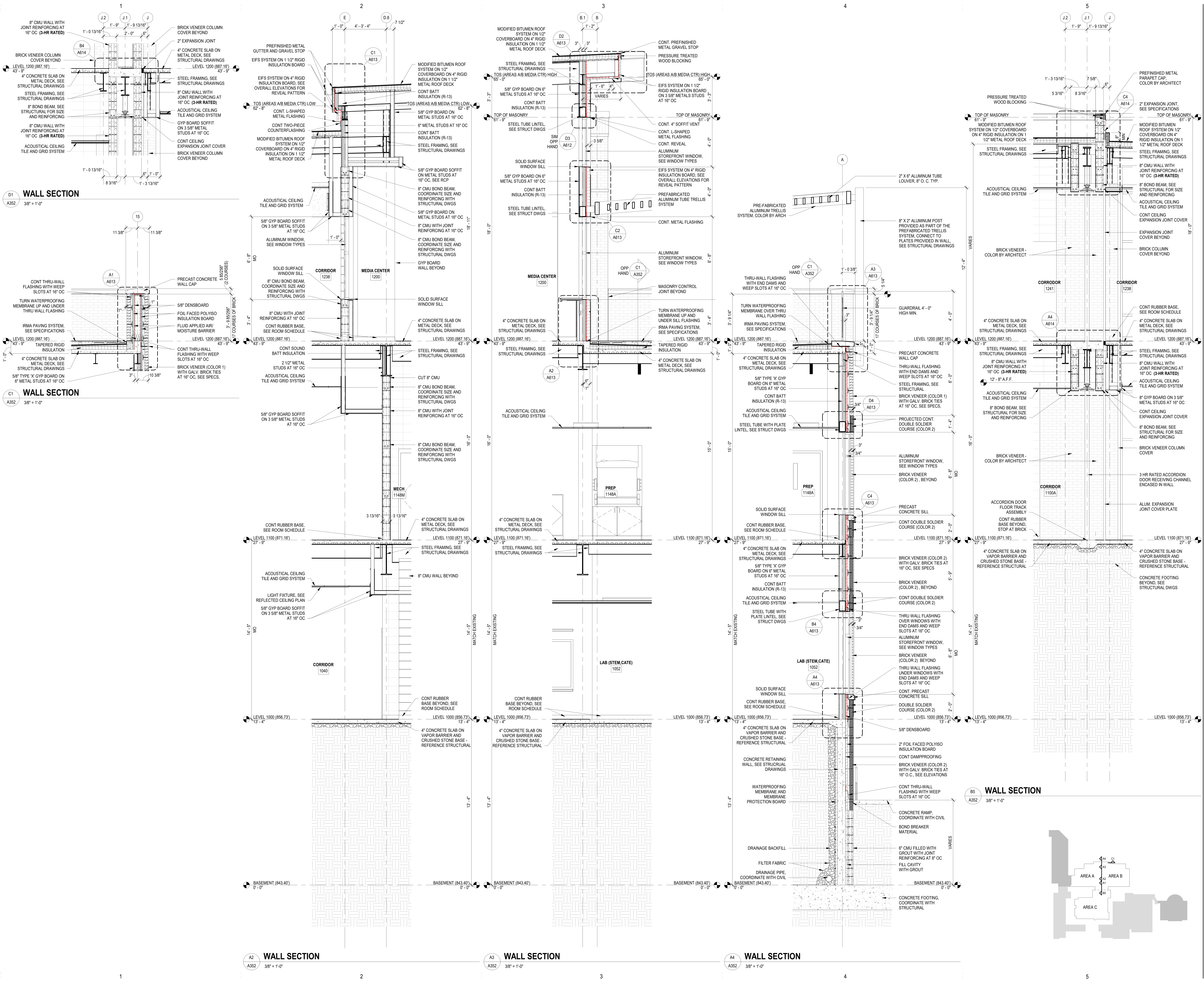
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: PB

SHEET TITLE:

WALL SECTIONS - AREA A

SHEET NO. A351

PROJ. NO. 020420.00



D1 A352 **WALL SECTION** 3/8" = 1'-0"

C1 A352 **WALL SECTION** 3/8" = 1'-0"

B5 A352 **WALL SECTION** 3/8" = 1'-0"

A2 A352 **WALL SECTION** 3/8" = 1'-0"

A3 A352 **WALL SECTION** 3/8" = 1'-0"

A4 A352 **WALL SECTION** 3/8" = 1'-0"

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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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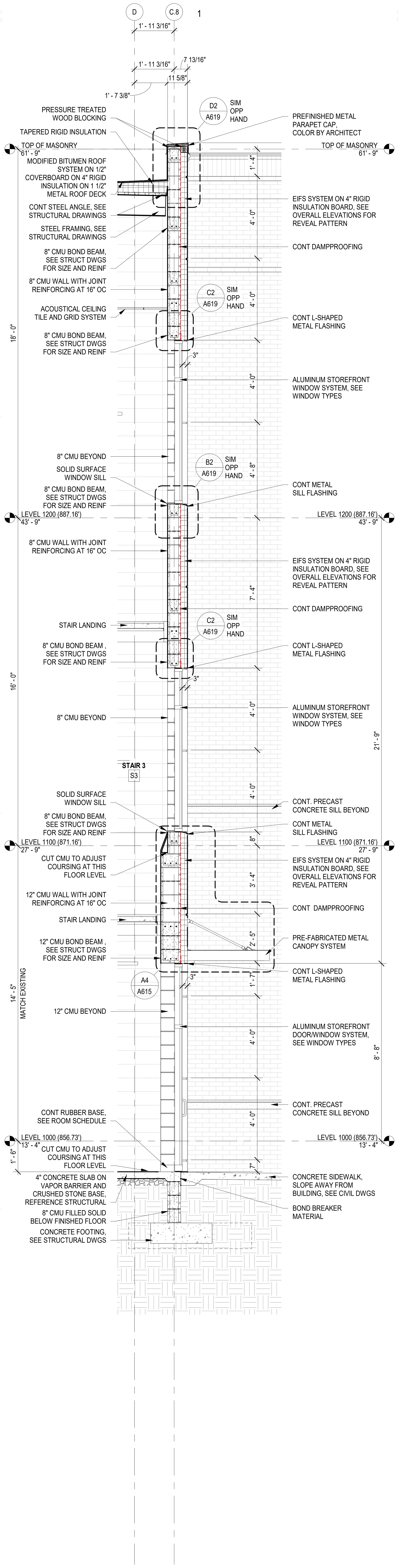
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: PS

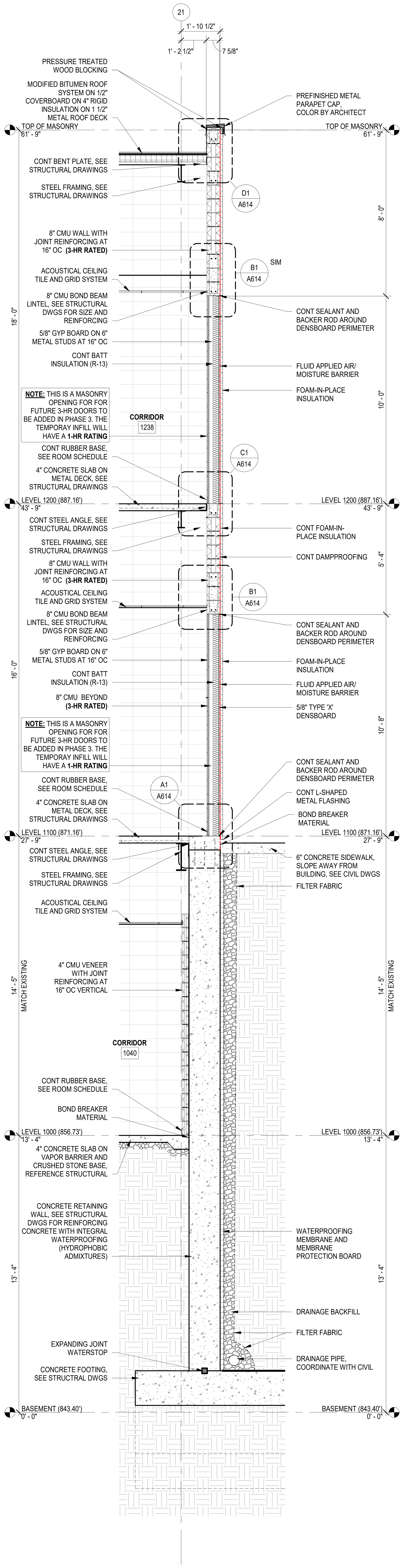
SHEET TITLE:
WALL SECTIONS - AREA B

SHEET NO.
PROJ. NO. 020420.00

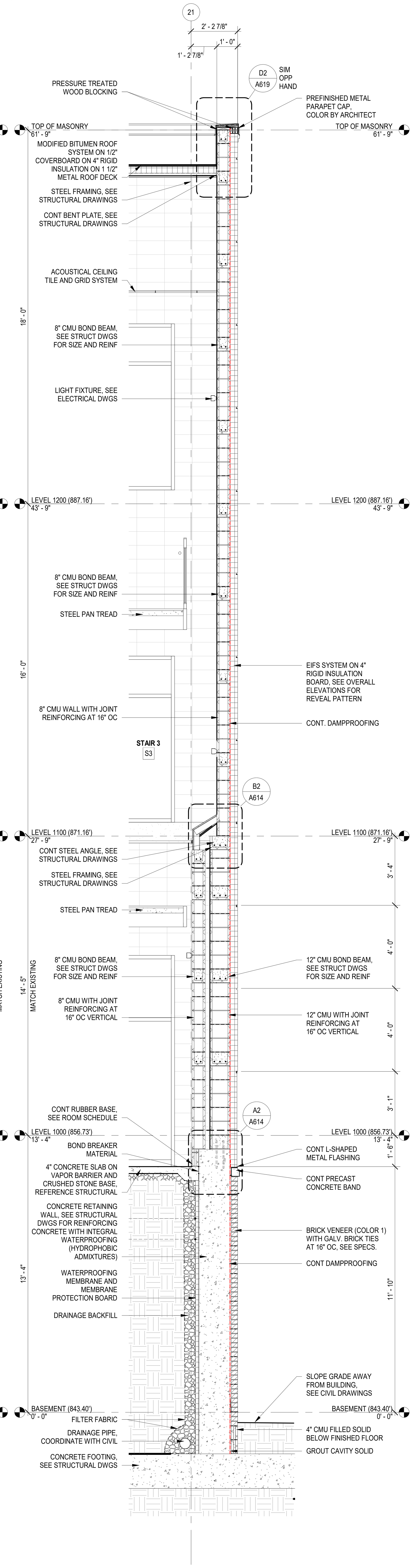
A352



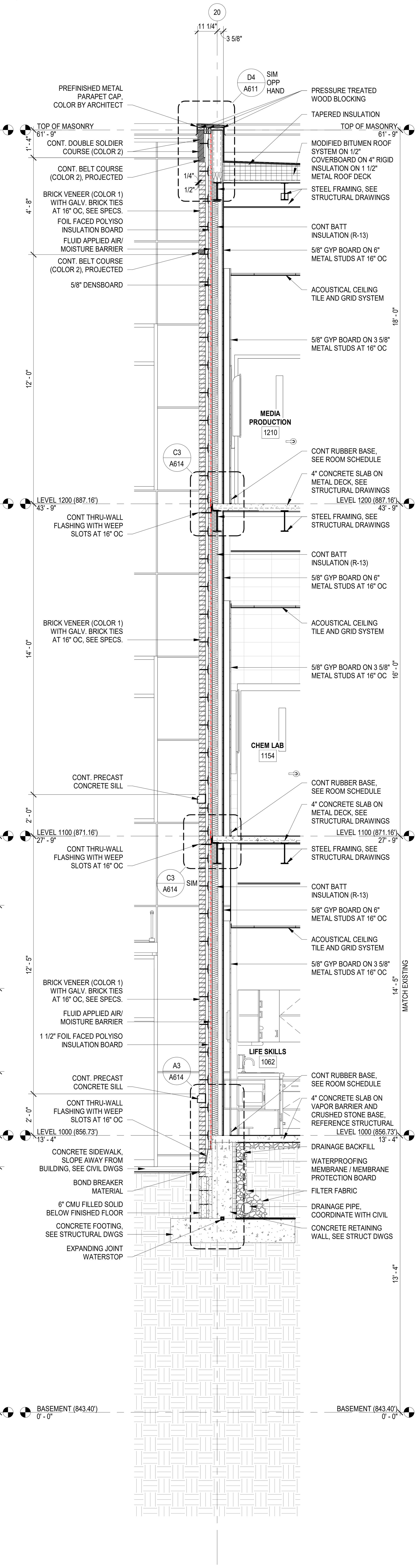
A1 WALL SECTION
3/8" = 1'-0"



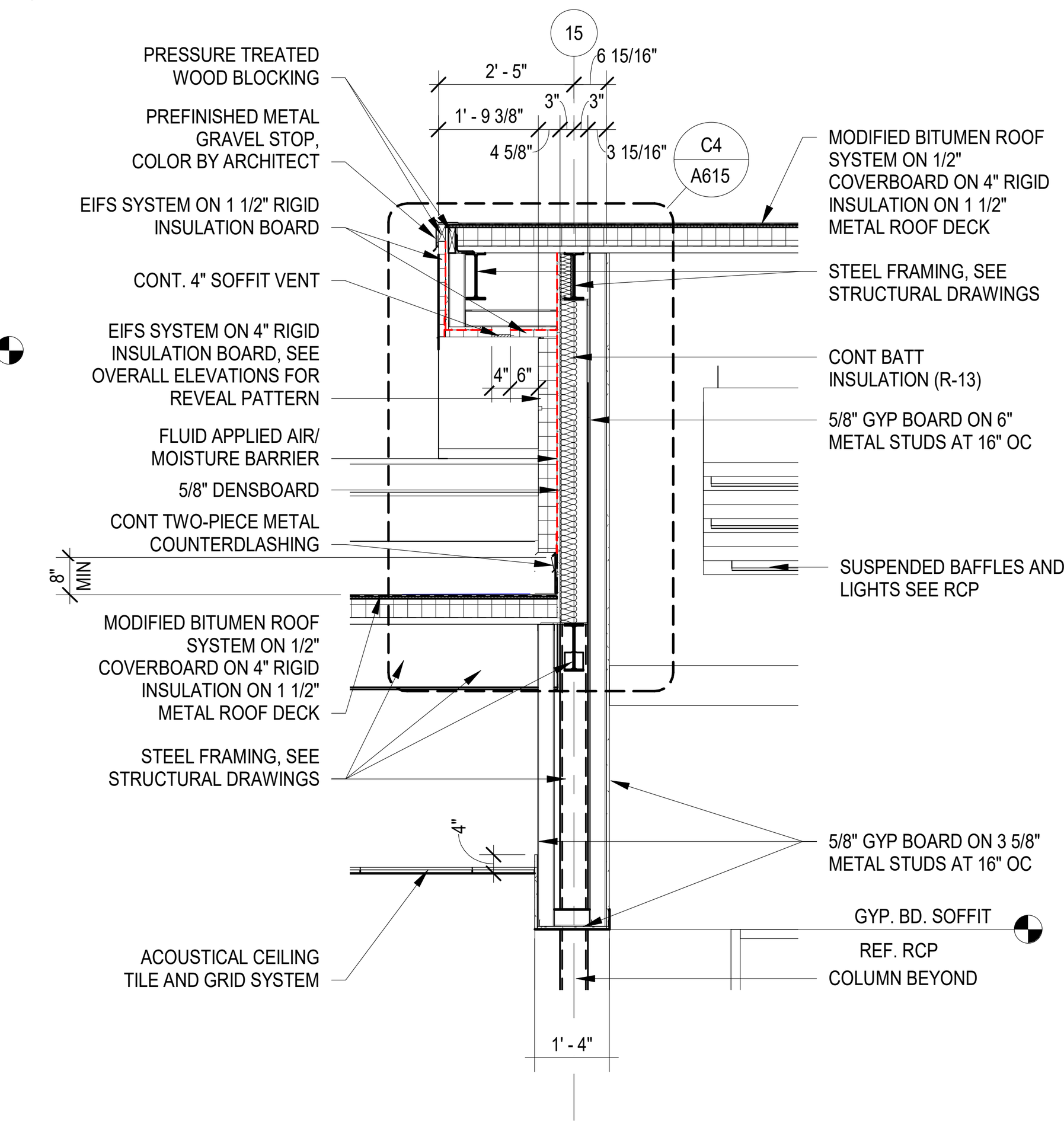
A2 WALL SECTION
3/8" = 1'-0"



A3 WALL SECTION
3/8" = 1'-0"



A4 WALL SECTTION
3/8" = 1'-0"



D5 WALL SECTION
3/8" = 1'-0"

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

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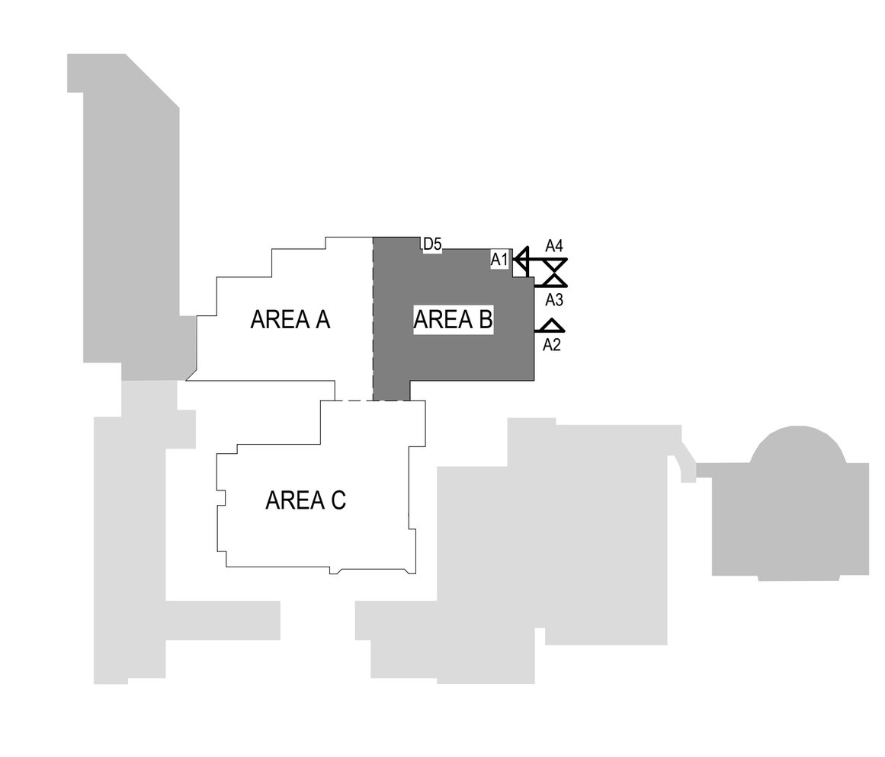


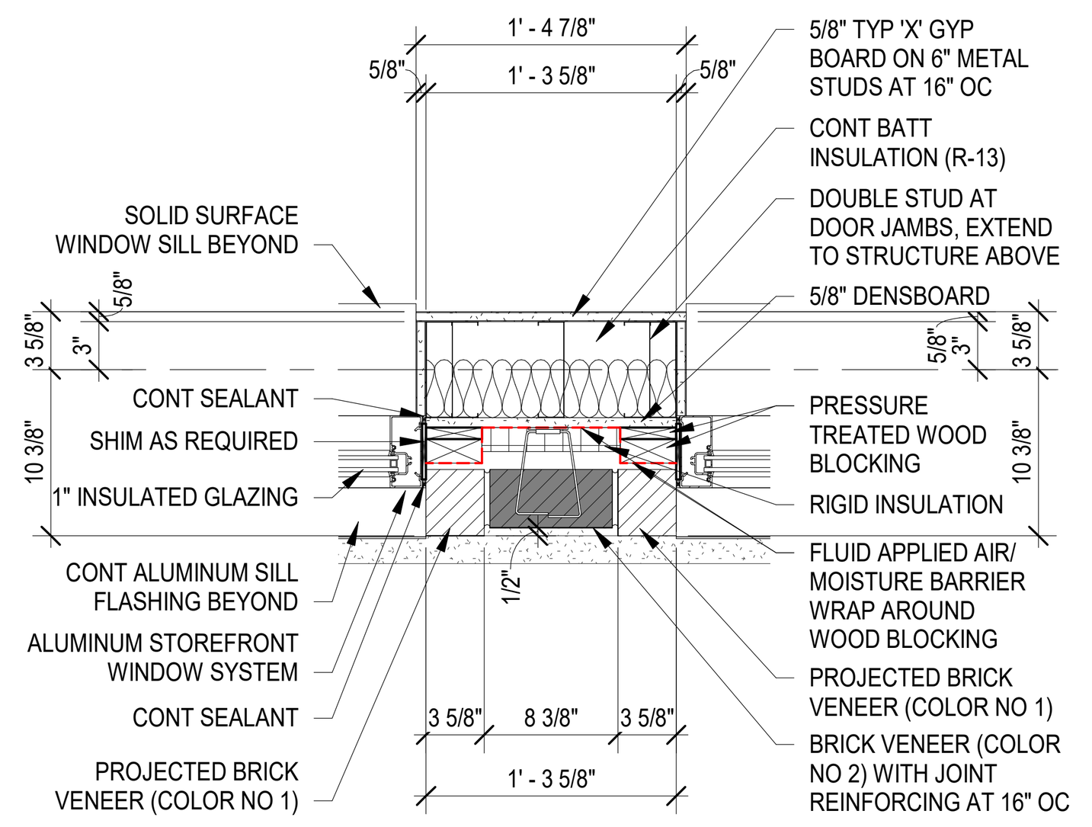
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

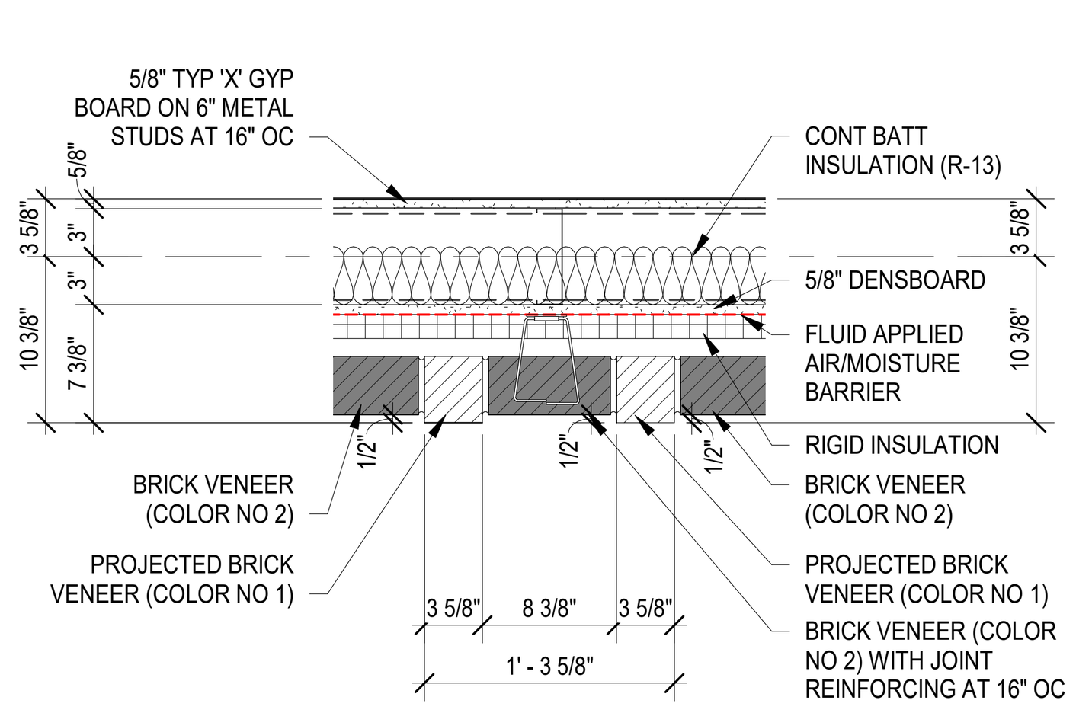
SHEET TITLE:
WALL SECTIONS - AREA B

SHEET NO. PROJ. NO. 020420.00

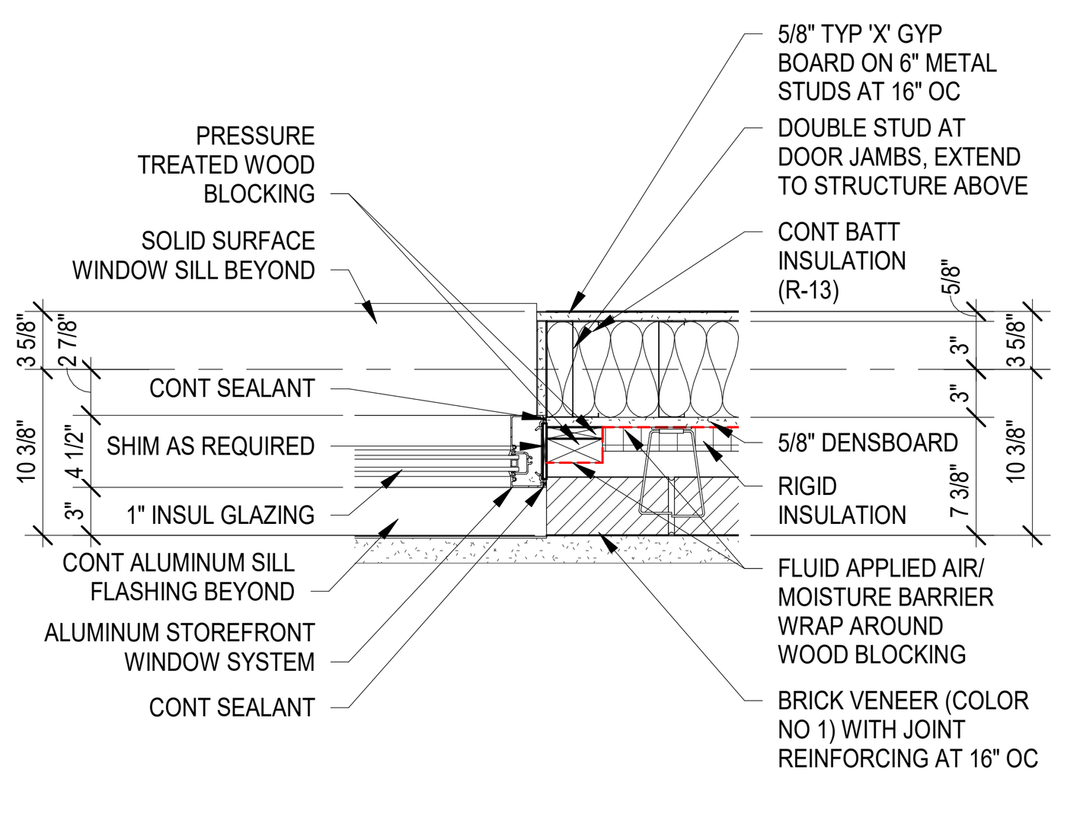
A353



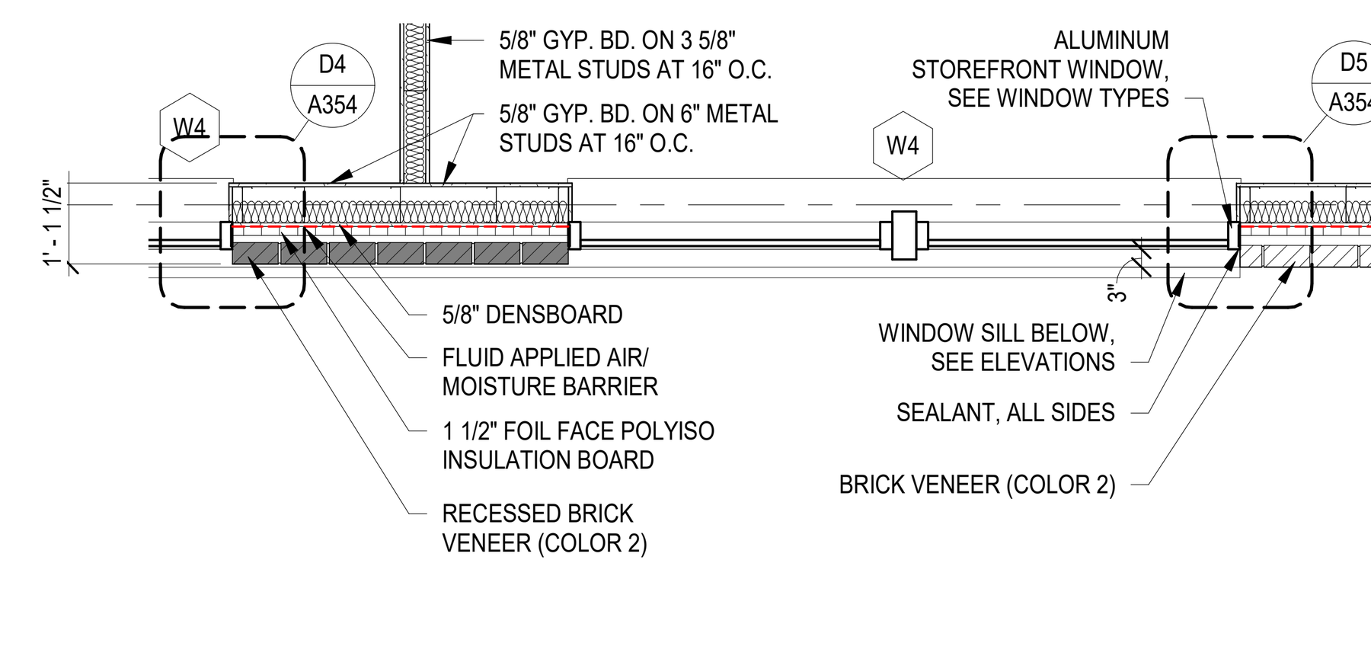
D1A A354 **PLAN DETAIL**
1" = 1'-0"



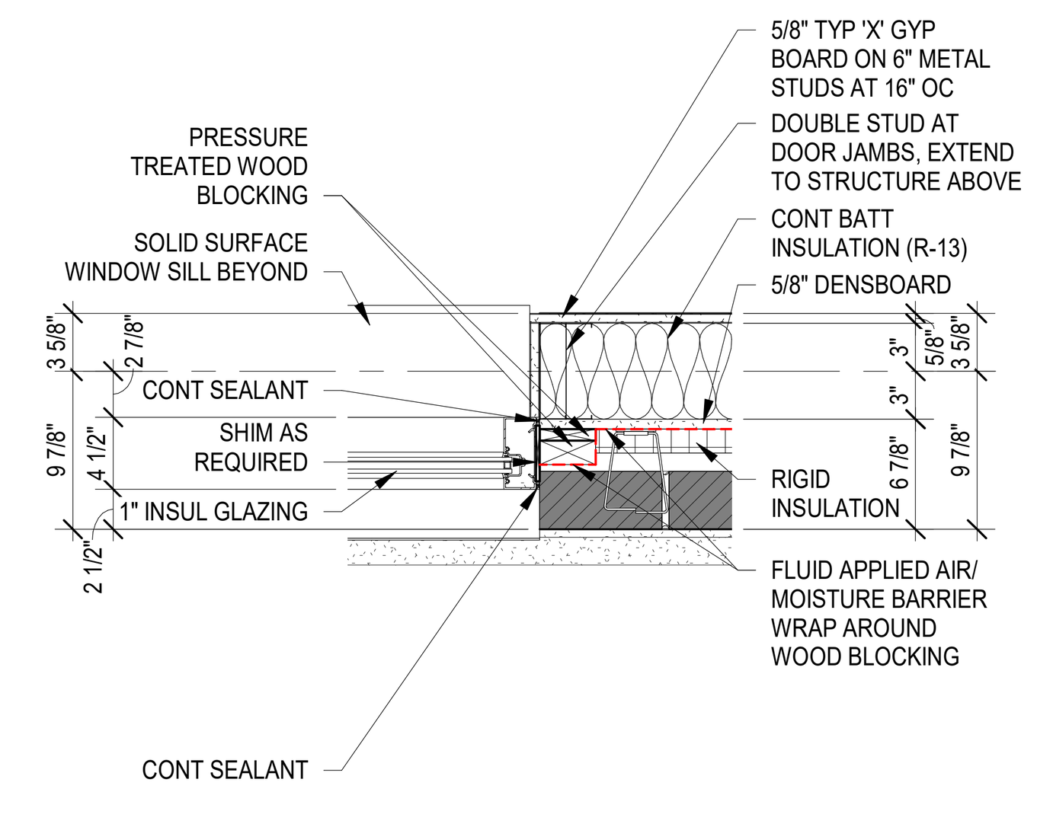
D1B A354 **PLAN SECTION**
1" = 1'-0"



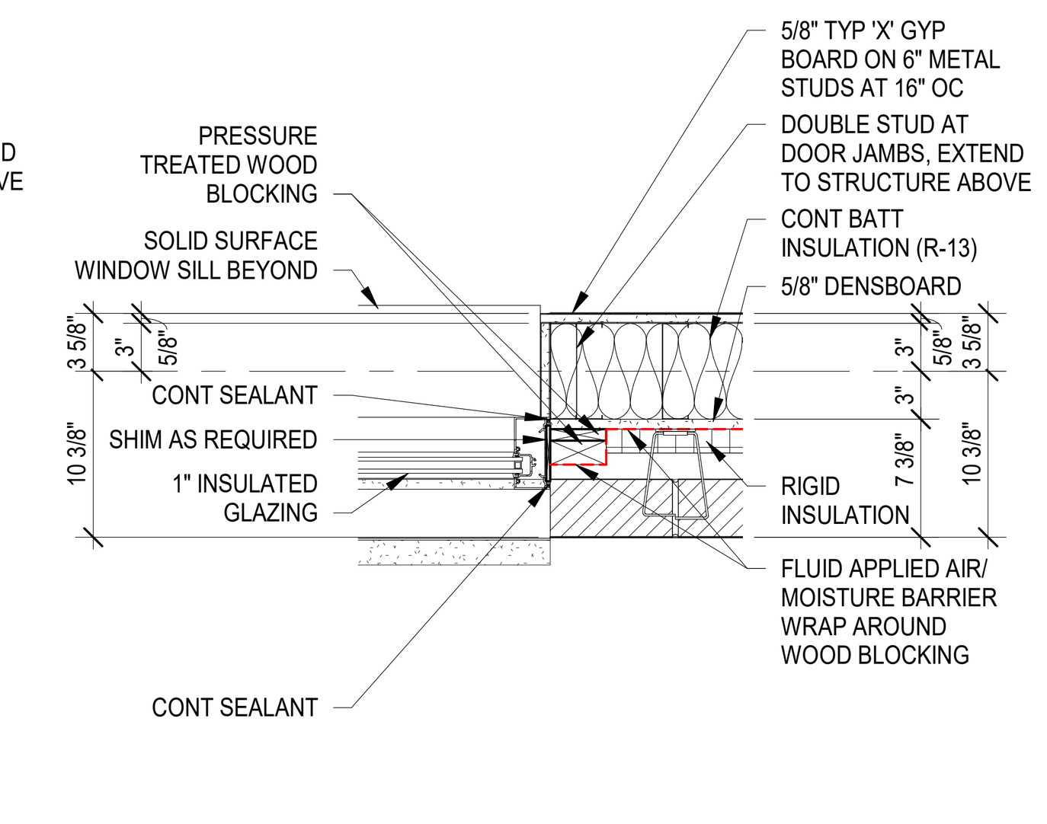
D2 A354 **PLAN DETAIL**
1" = 1'-0"



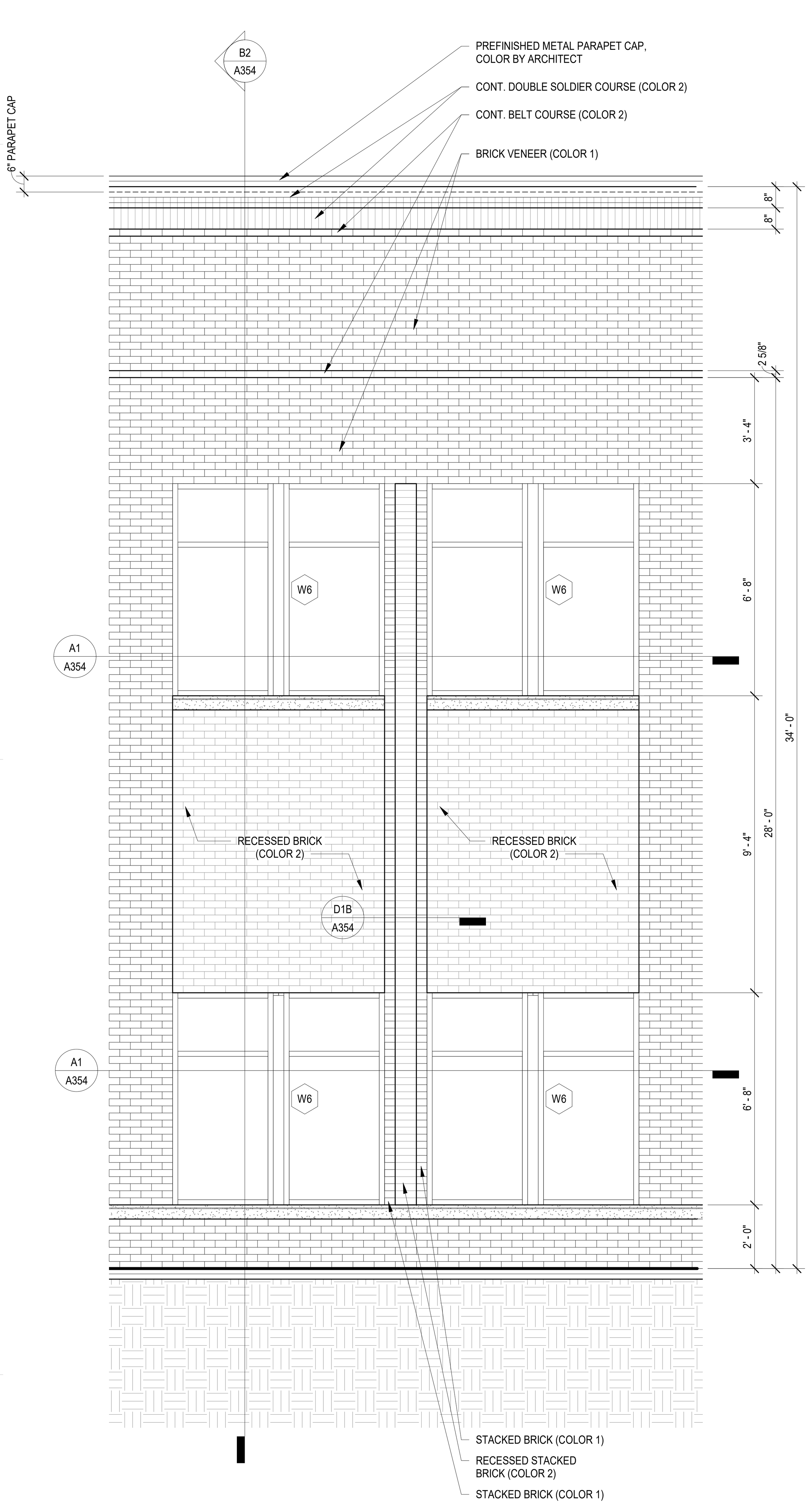
D3 A354 **PLAN DETAIL**
3/8" = 1'-0"



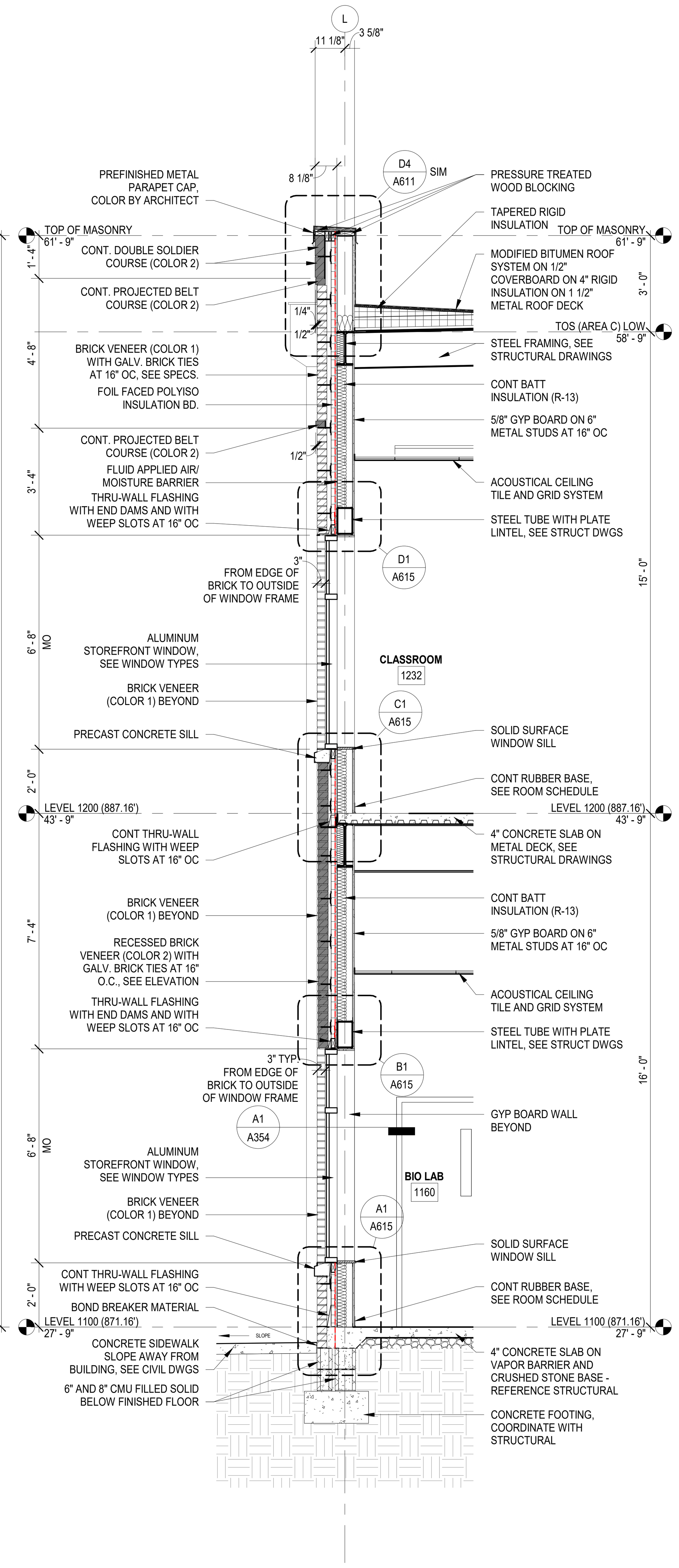
D4 A354 **PLAN DETAIL**
1" = 1'-0"



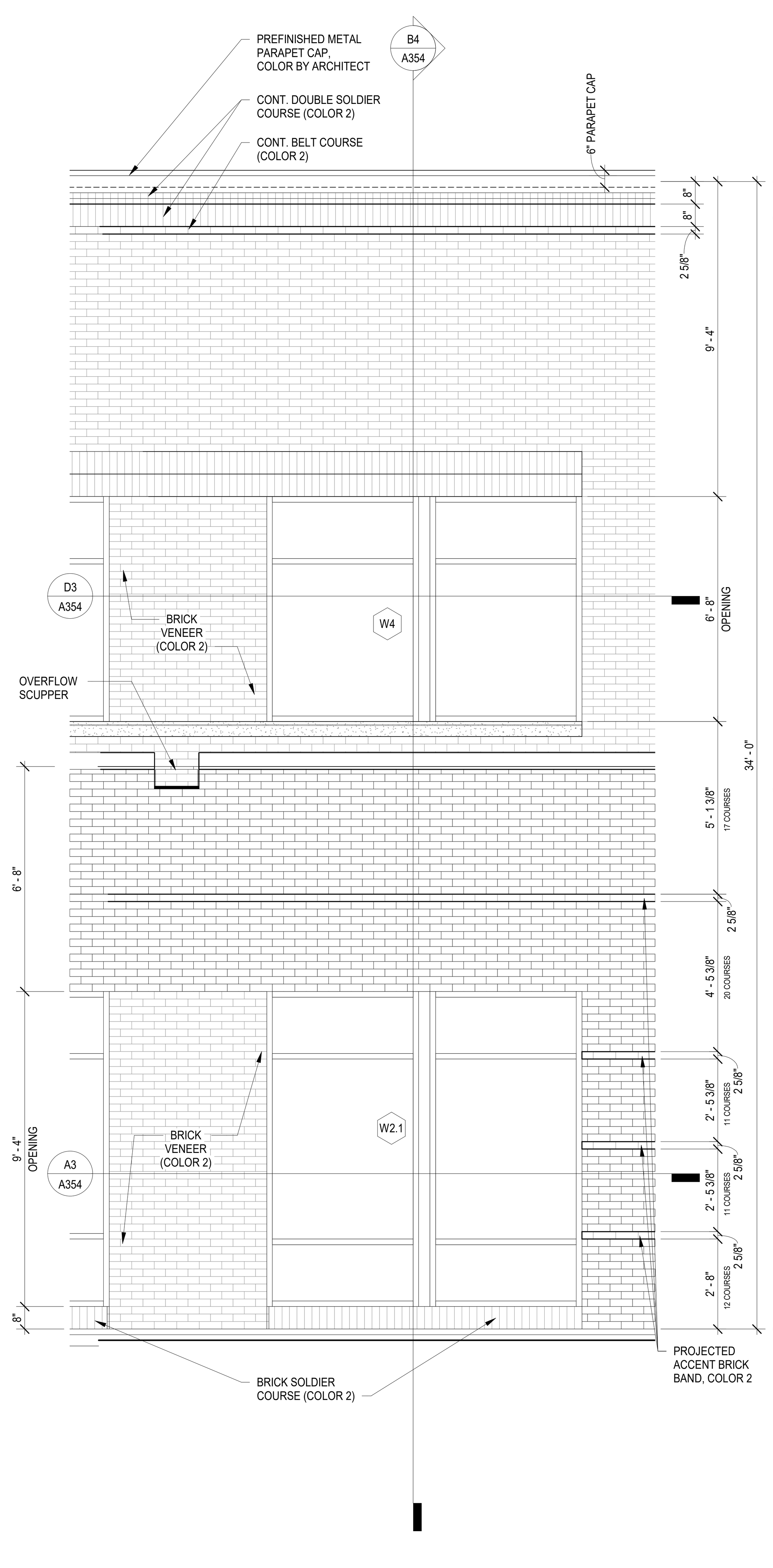
D5 A354 **PLAN DETAIL**
1" = 1'-0"



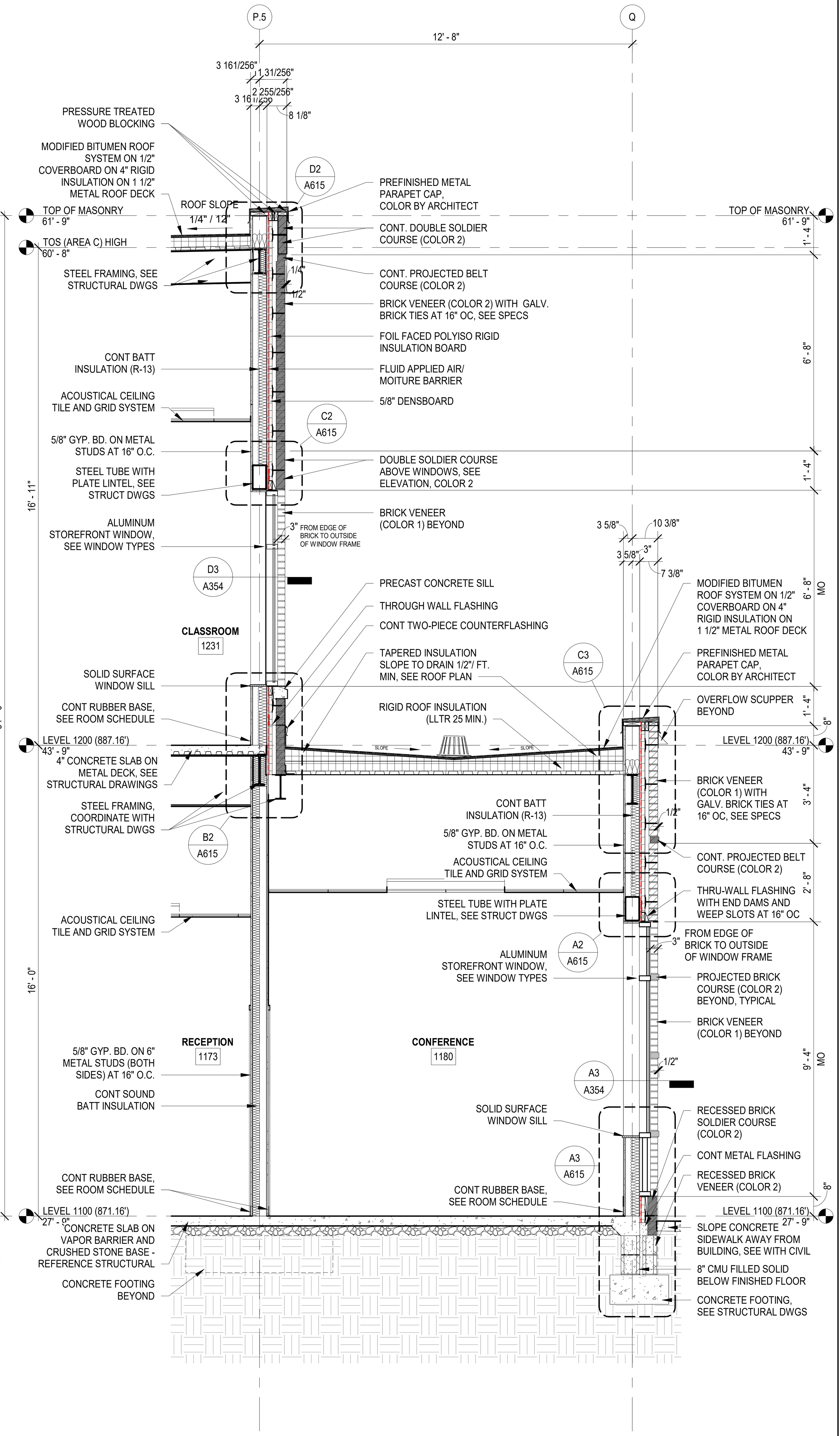
B1 A354 **ENLARGED BUILDING ELEVATION**
3/8" = 1'-0"



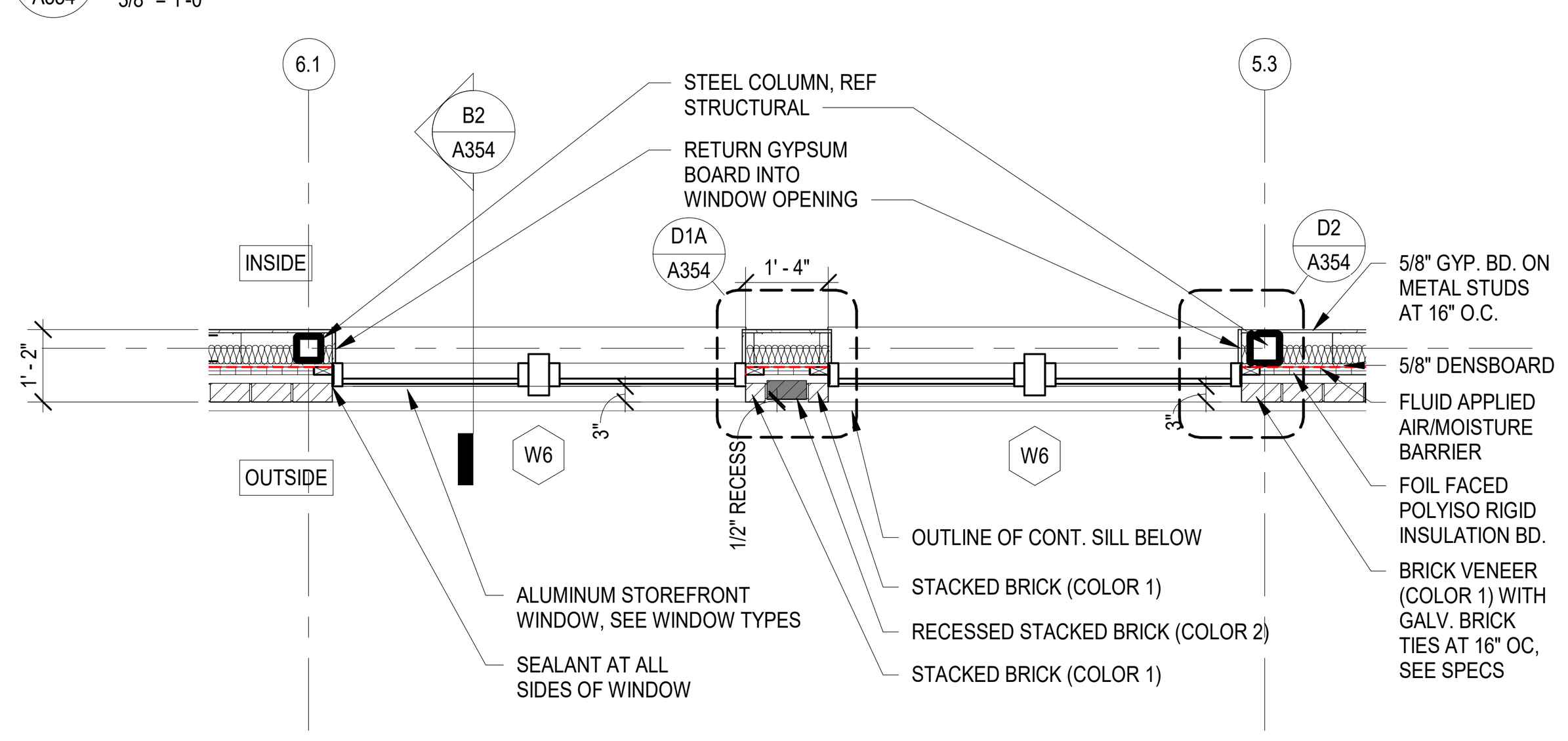
B2 A354 **WALL SECTION**
3/8" = 1'-0"



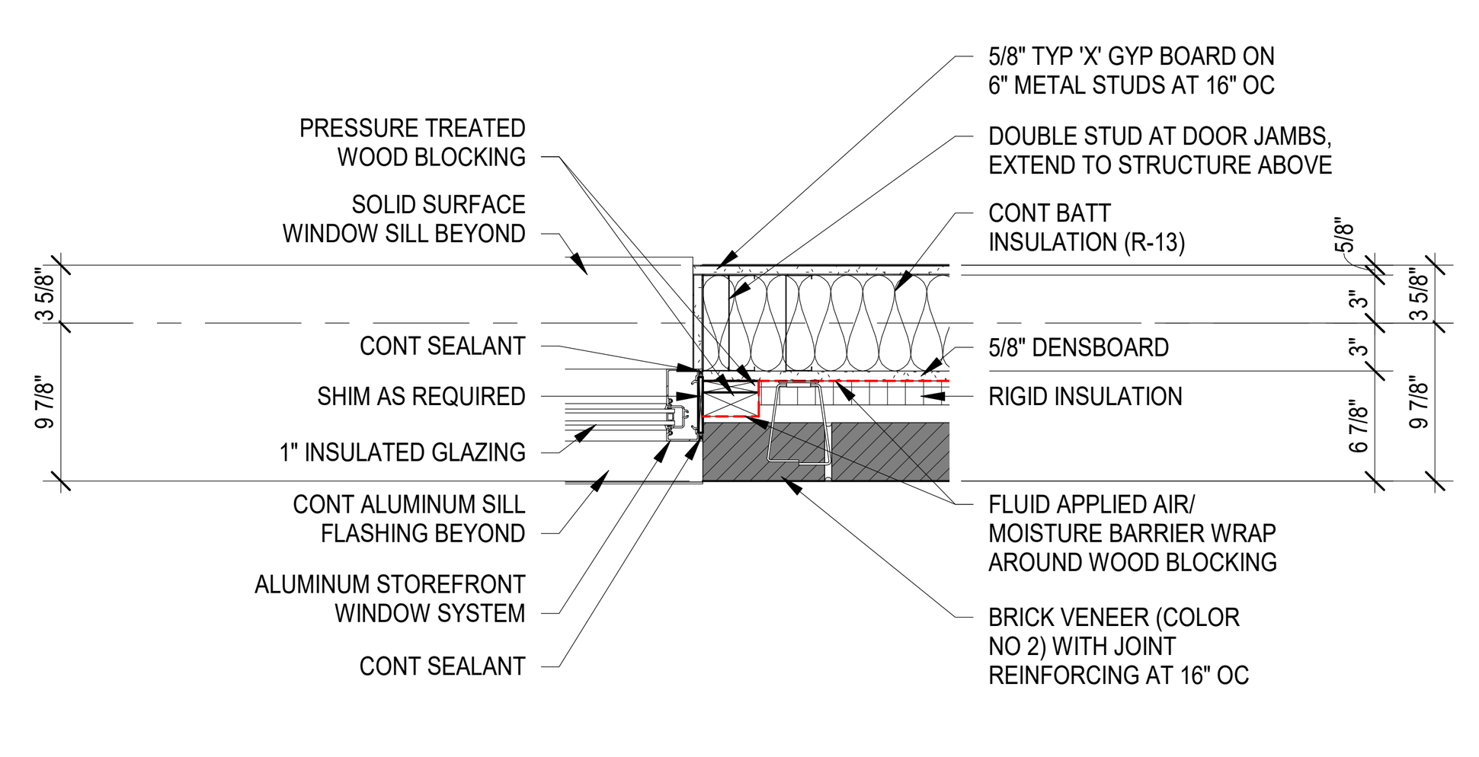
B3 A354 **ENLARGED BUILDING ELEVATION**
3/8" = 1'-0"



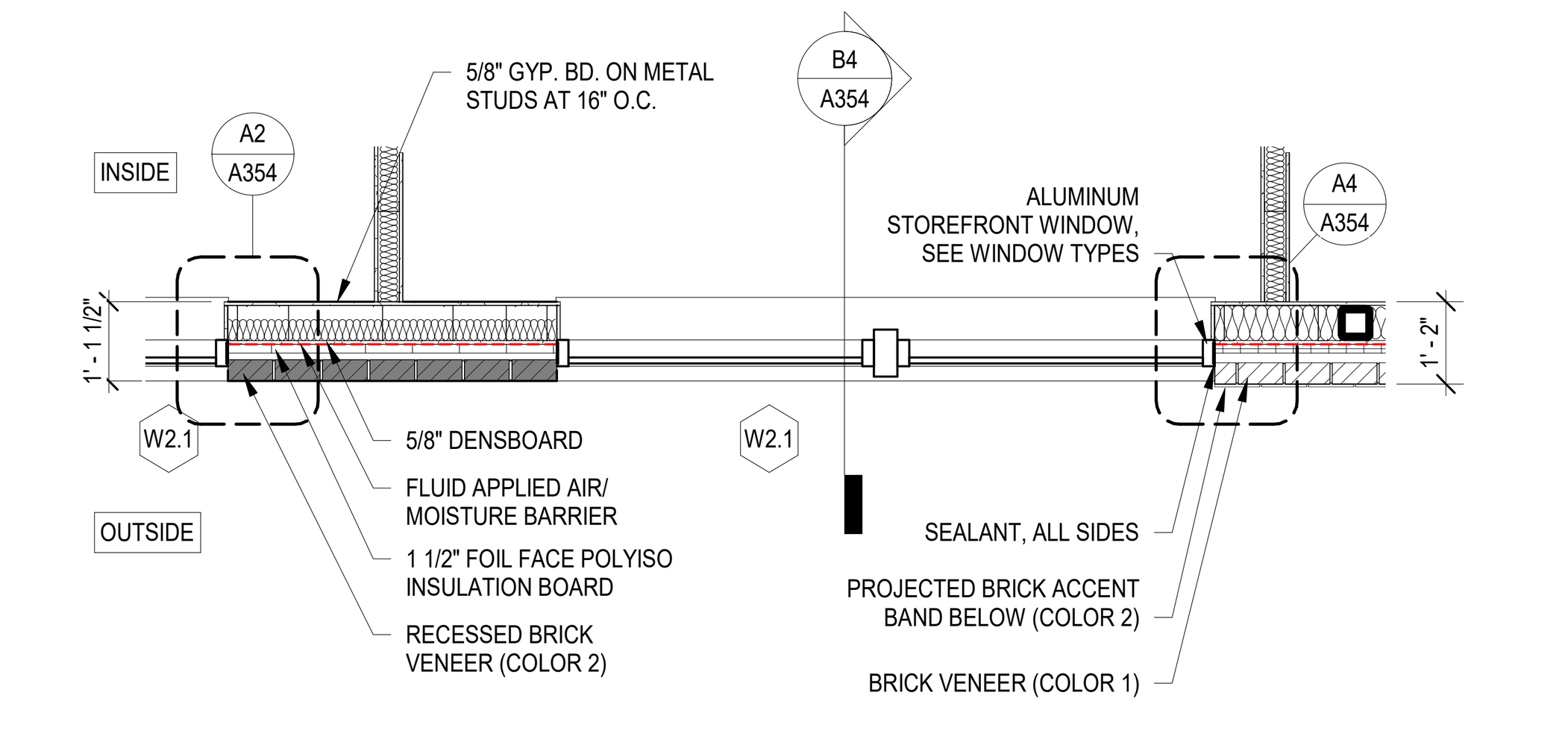
B4 A354 **WALL SECTION**
3/8" = 1'-0"



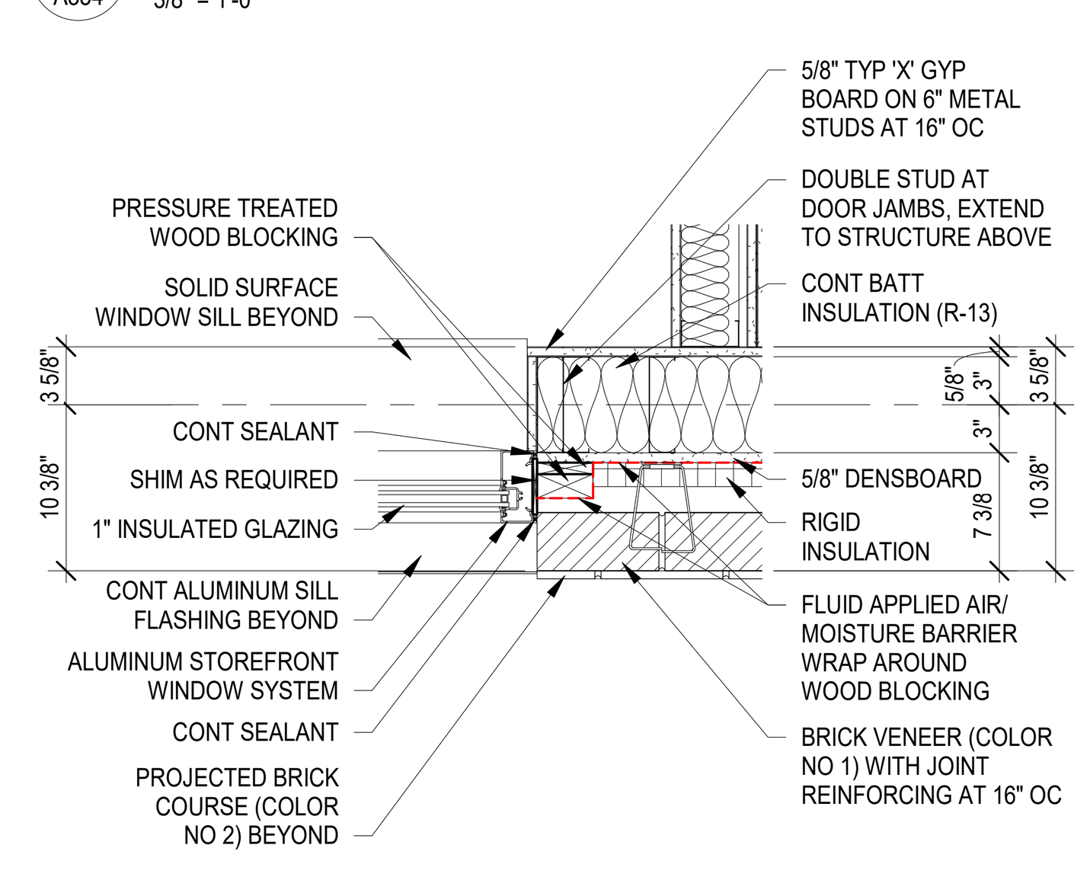
A1 A354 **PLAN DETAIL**
3/8" = 1'-0"



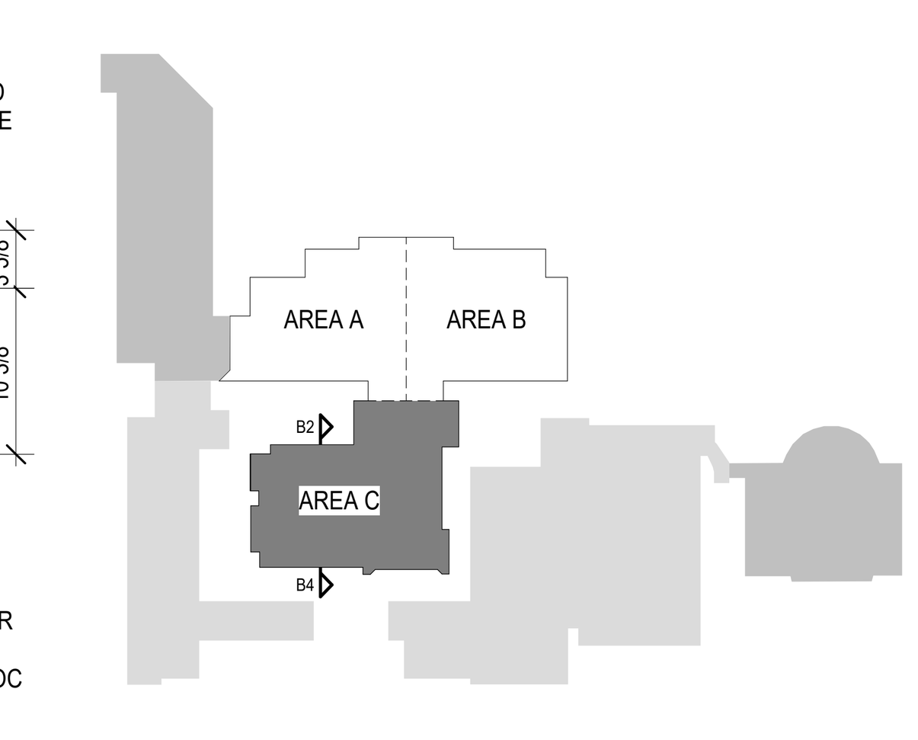
A2 A354 **PLAN DETAIL**
1" = 1'-0"



A3 A354 **PLAN DETAIL**
3/8" = 1'-0"



A4 A354 **PLAN DETAIL**
1" = 1'-0"



mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

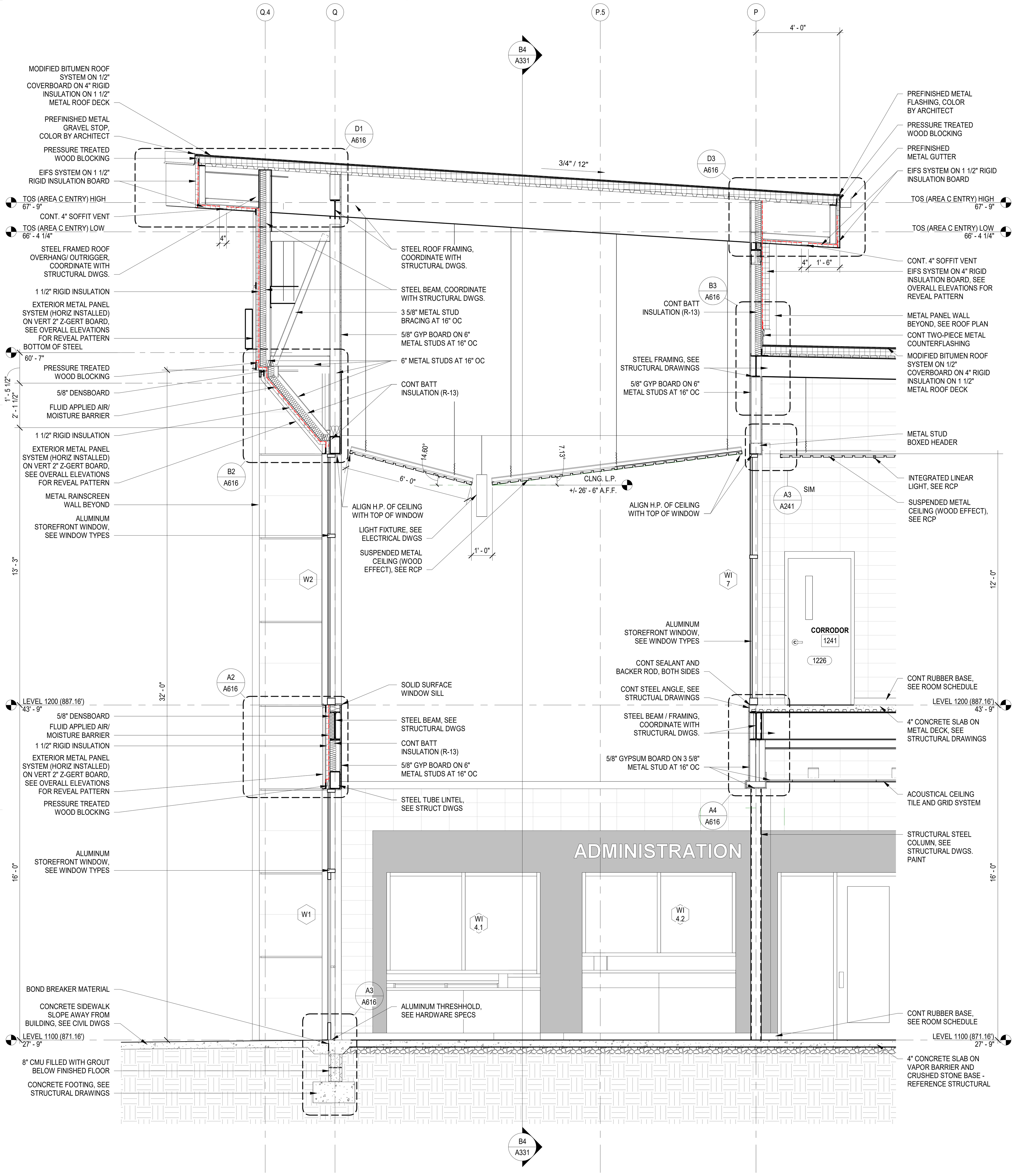
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: CBM

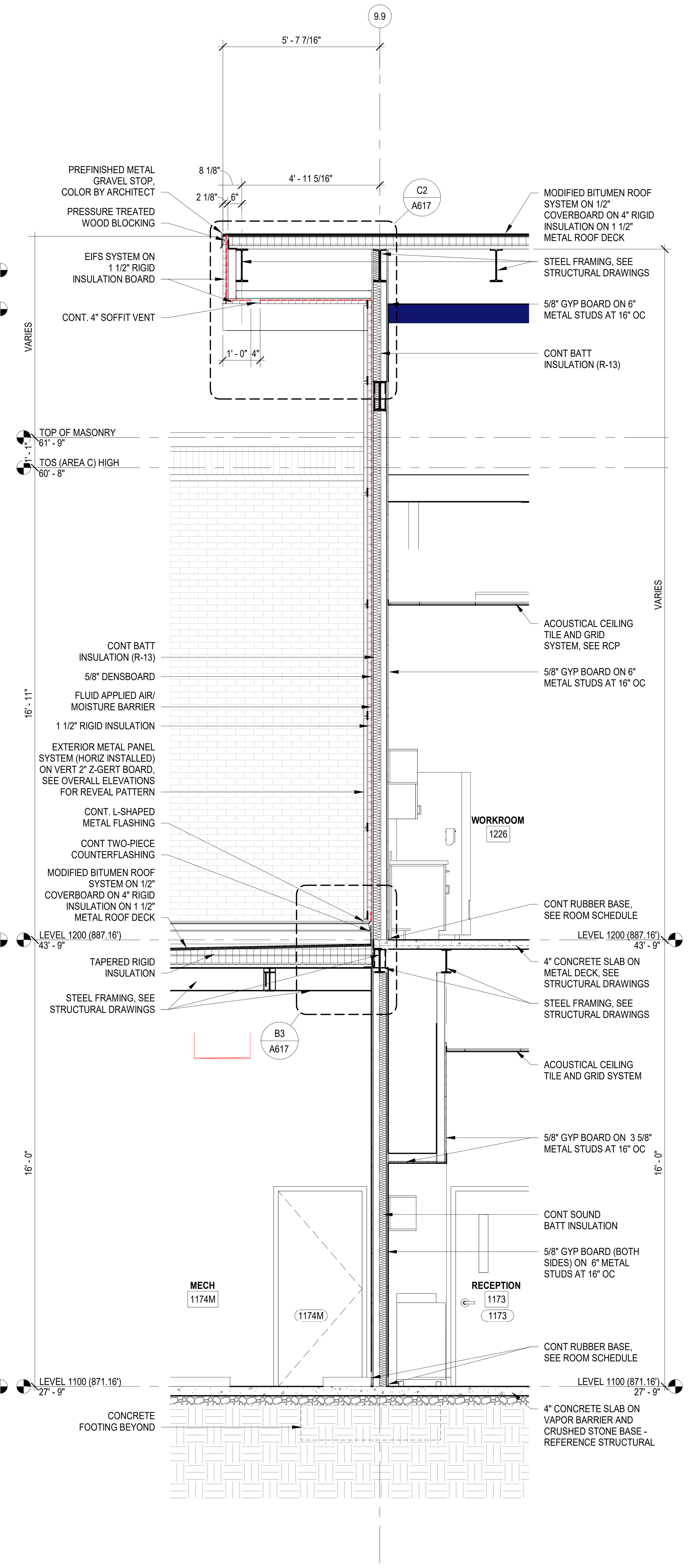
SHEET TITLE:
WALL SECTIONS - AREA C

SHEET NO. PROJ. NO.
020420.00

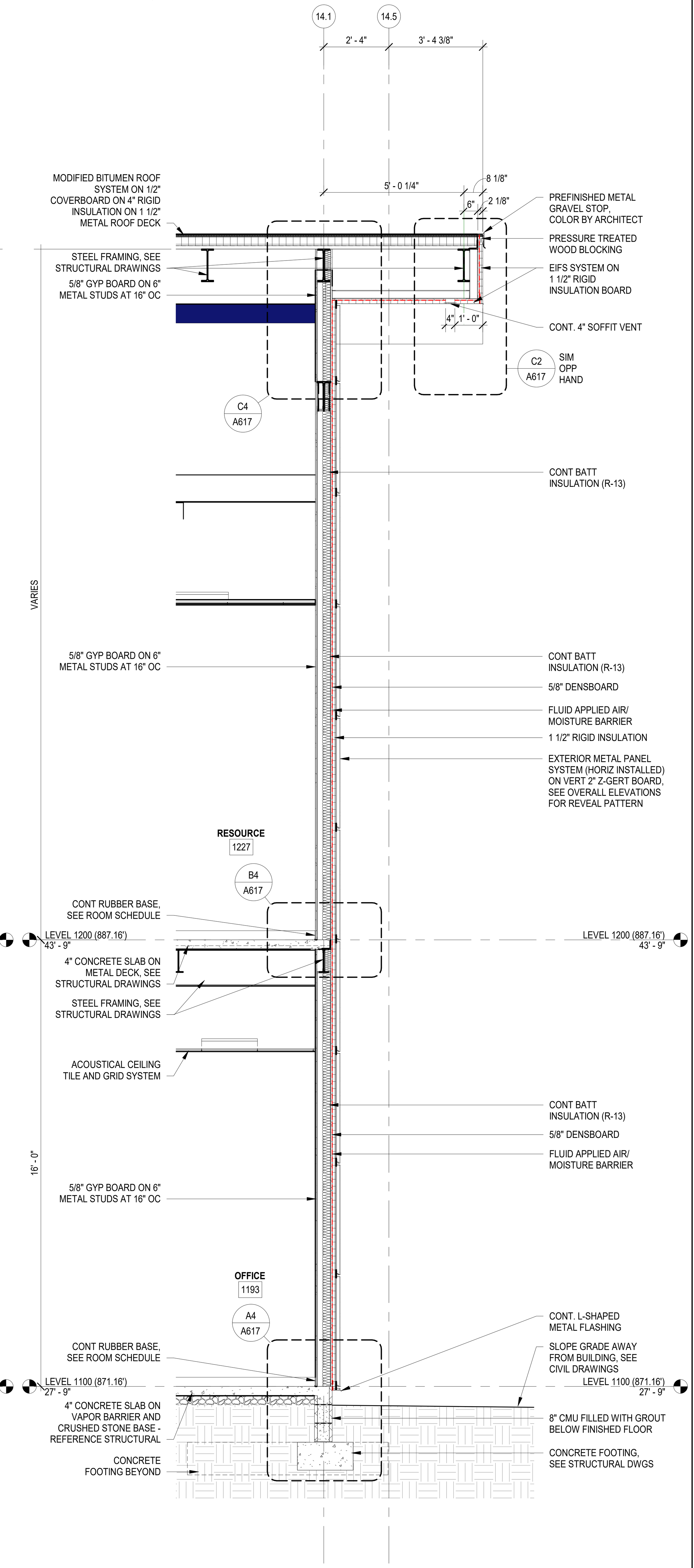
A354



B1 A355 **WALL SECTION - AT MAIN ENTRANCE**
3/8" = 1'-0"



B3 A355 **WALL SECTION**
3/8" = 1'-0"



B4 A355 **WALL SECTION**
3/8" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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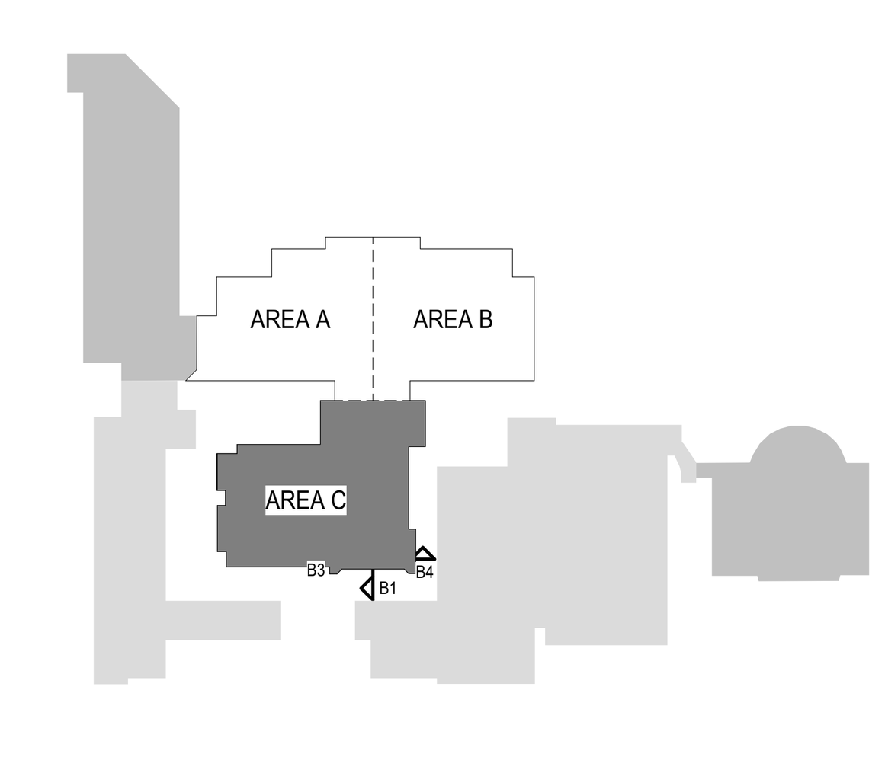
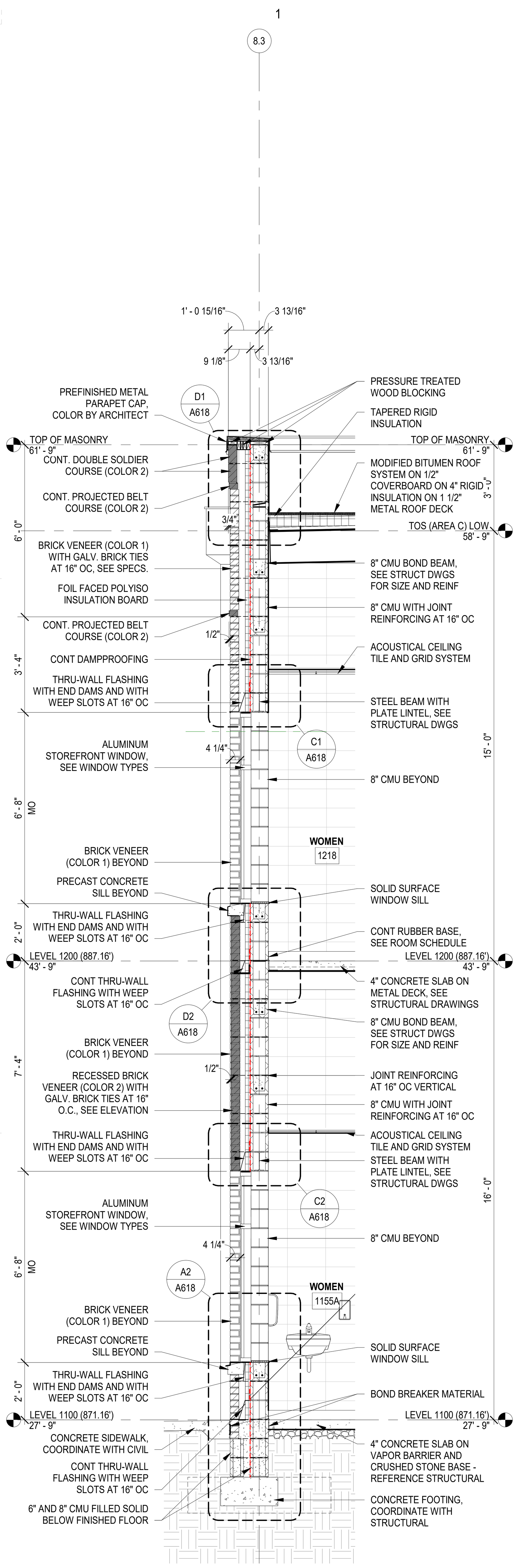
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author



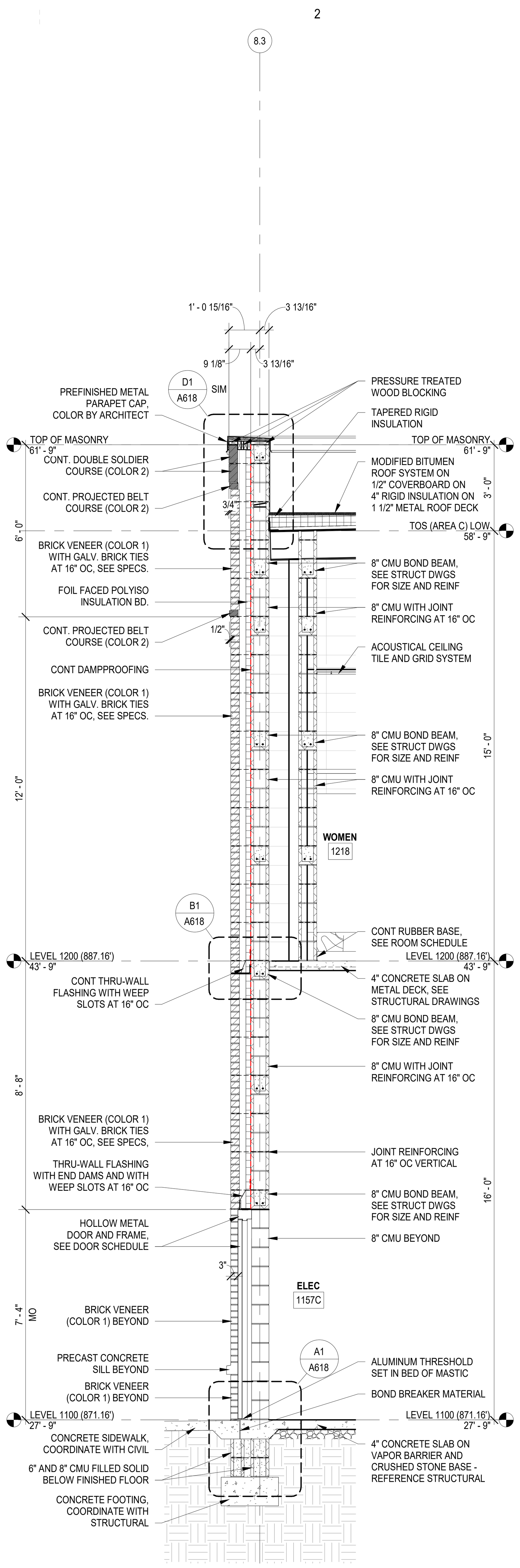
SHEET TITLE:
WALL SECTIONS - AREA C - ENTRANCE

SHEET NO. PROJ. NO. 020420.00

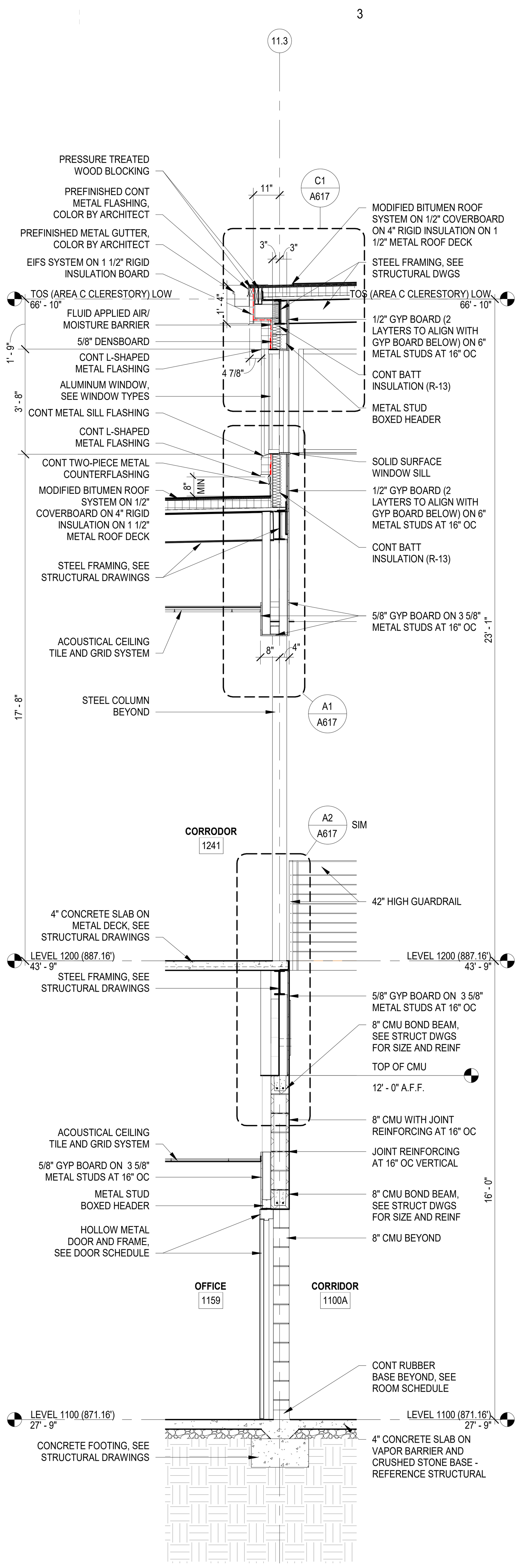
A355



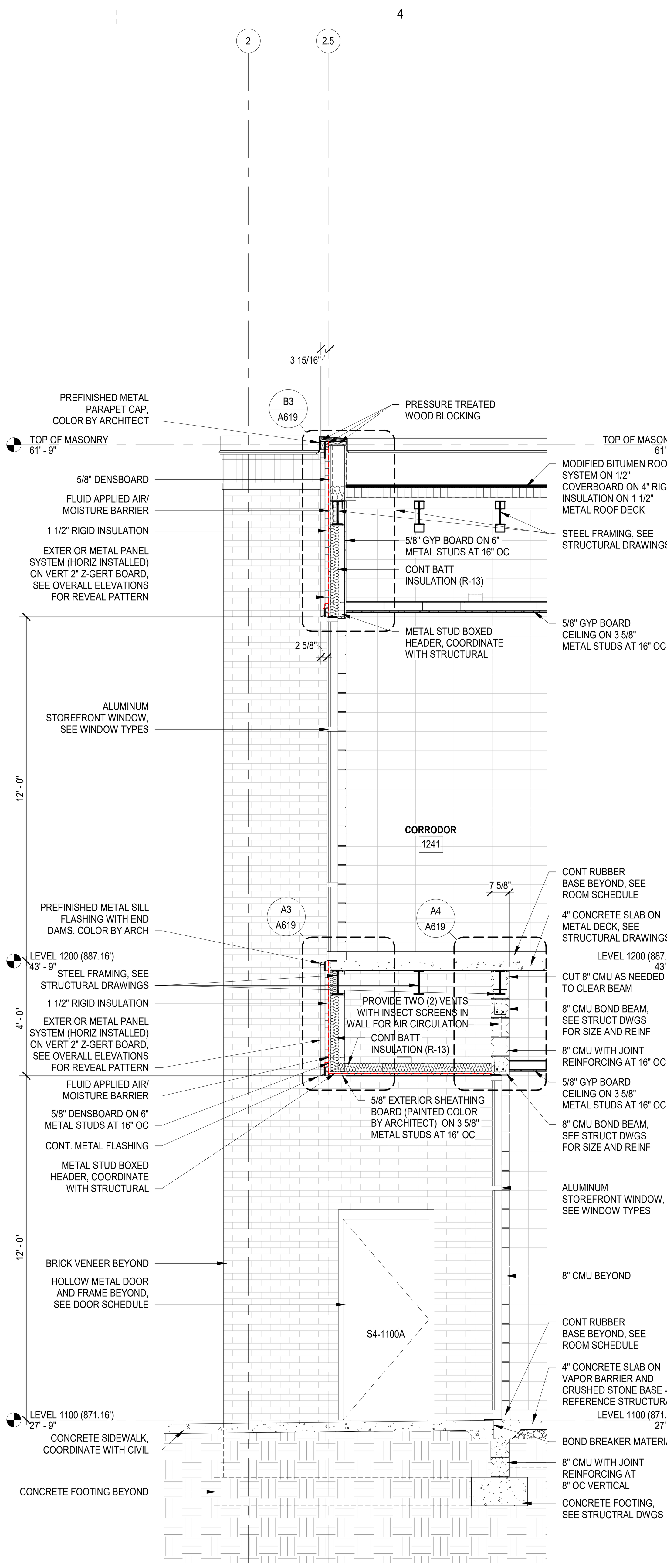
B1 WALL SECTION - AREA C A356 3/8" = 1'-0"



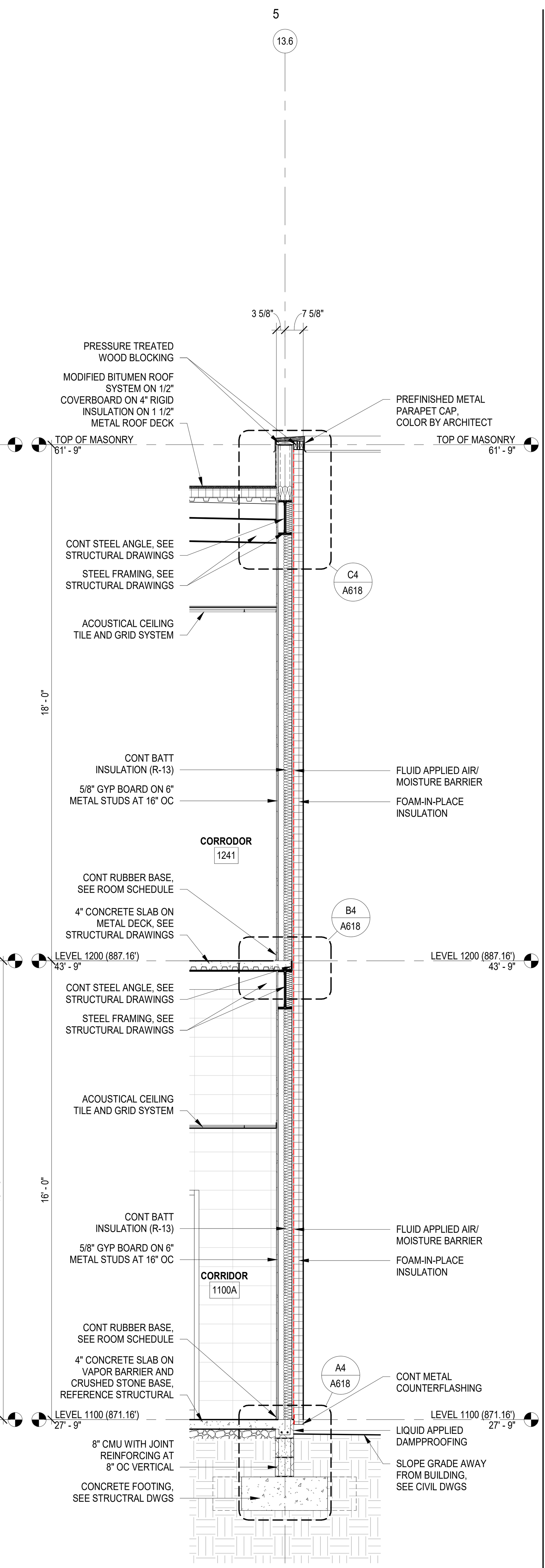
B2 WALL SECTION A356 3/8" = 1'-0"



B3 WALL SECTION A356 3/8" = 1'-0"



B4 WALL SECTION - AREA C A356 3/8" = 1'-0"



B5 WALL SECTION A356 3/8" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET DUNCAN, SC 29334

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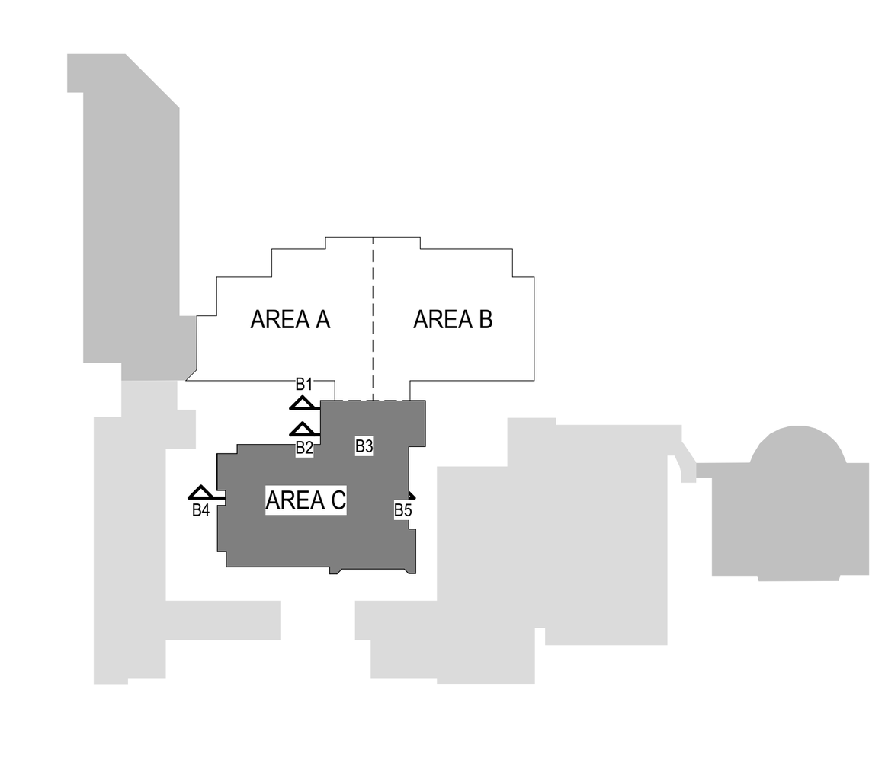
GMP SET 06/01/22

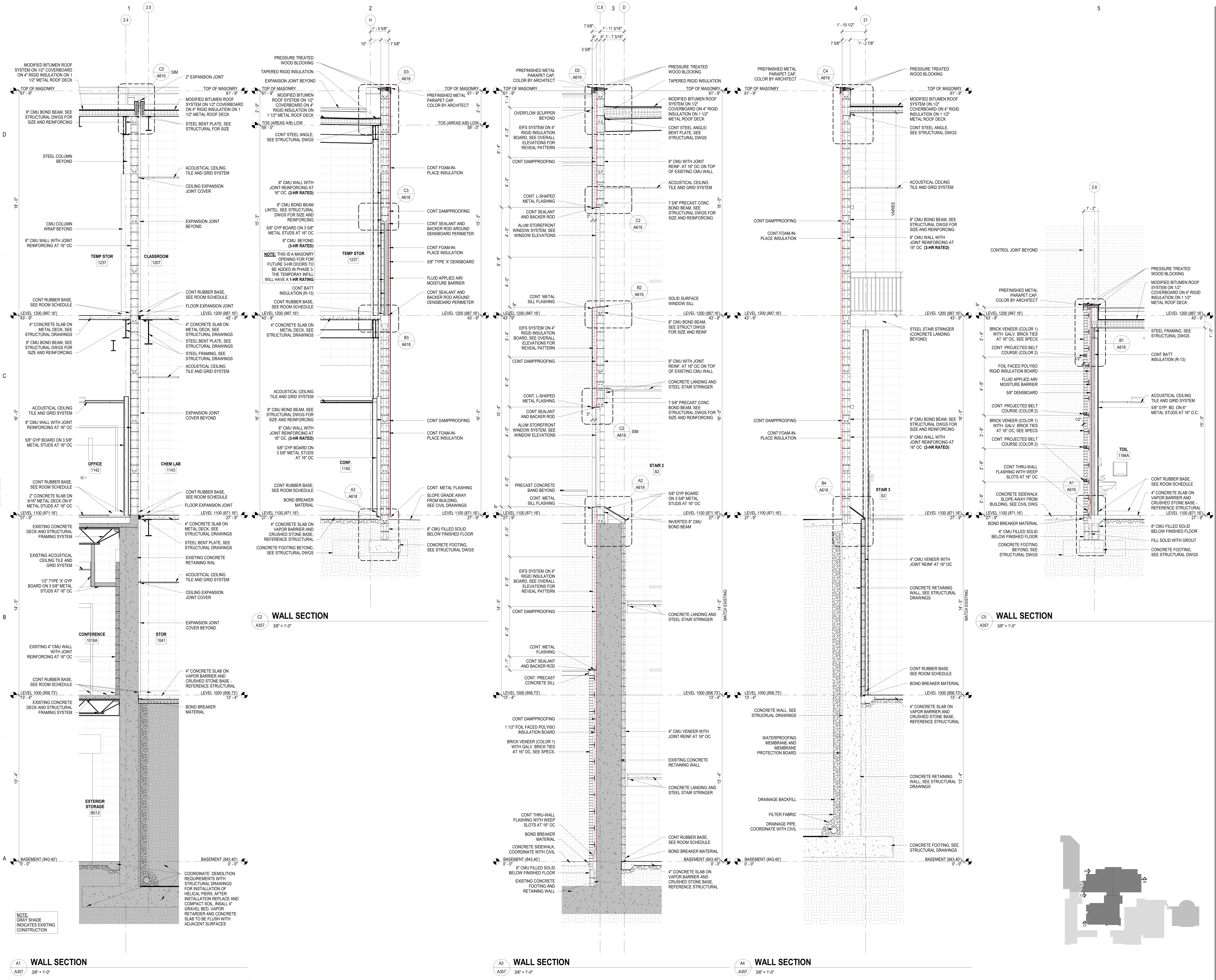
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author



SHEET TITLE:
WALL SECTIONS - AREA C

SHEET NO. A356

PROJ. NO. 020420.00



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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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C	06/01/22	GMP SET	MLC

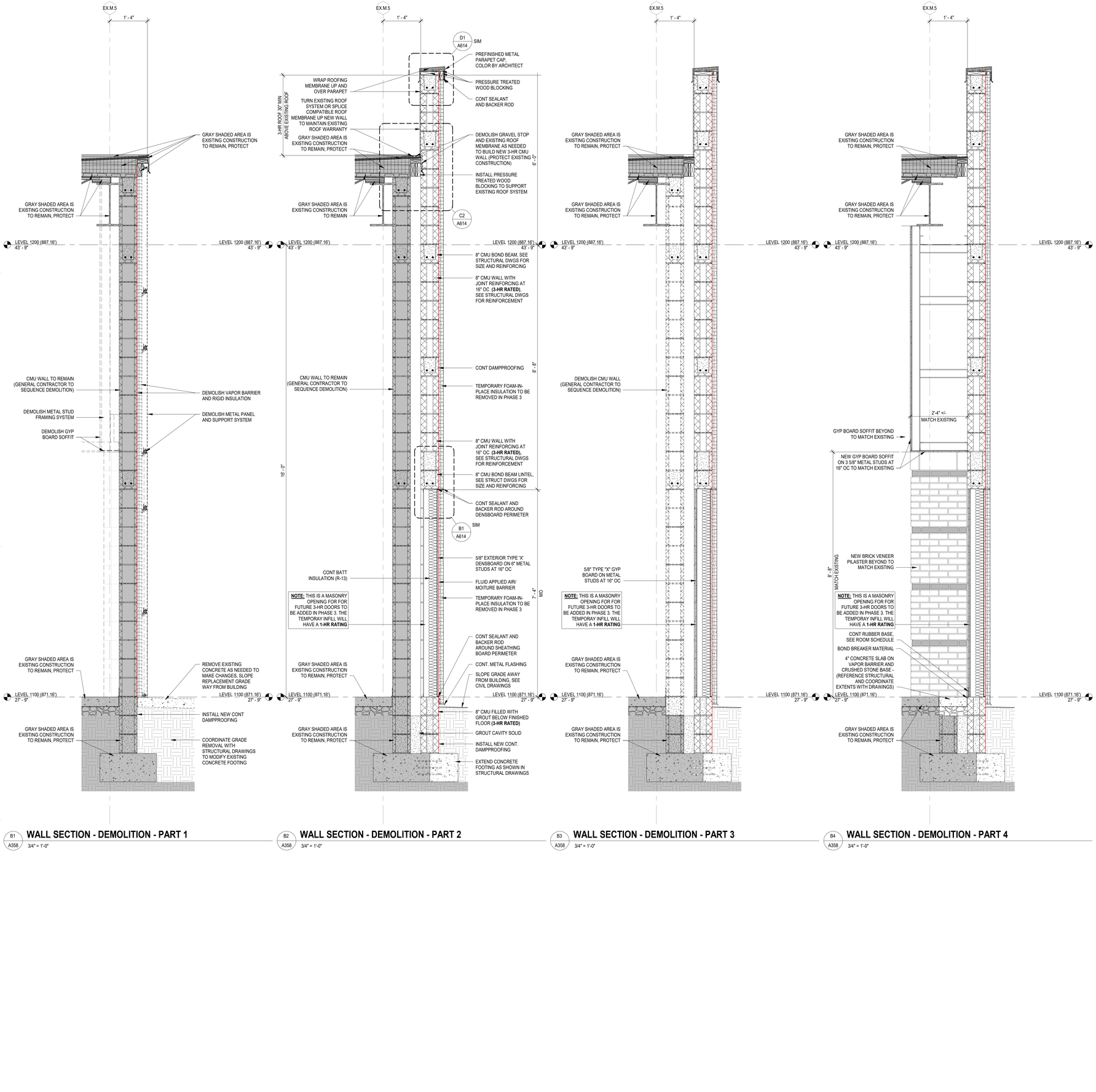
NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:
WALL SECTIONS - MISCELLANEOUS

SHEET NO. A357
PROJ. NO. 020420.00



B1 A358 **WALL SECTION - DEMOLITION - PART 1**
3/4" = 1'-0"

B2 A358 **WALL SECTION - DEMOLITION - PART 2**
3/4" = 1'-0"

B3 A358 **WALL SECTION - DEMOLITION - PART 3**
3/4" = 1'-0"

B4 A358 **WALL SECTION - DEMOLITION - PART 4**
3/4" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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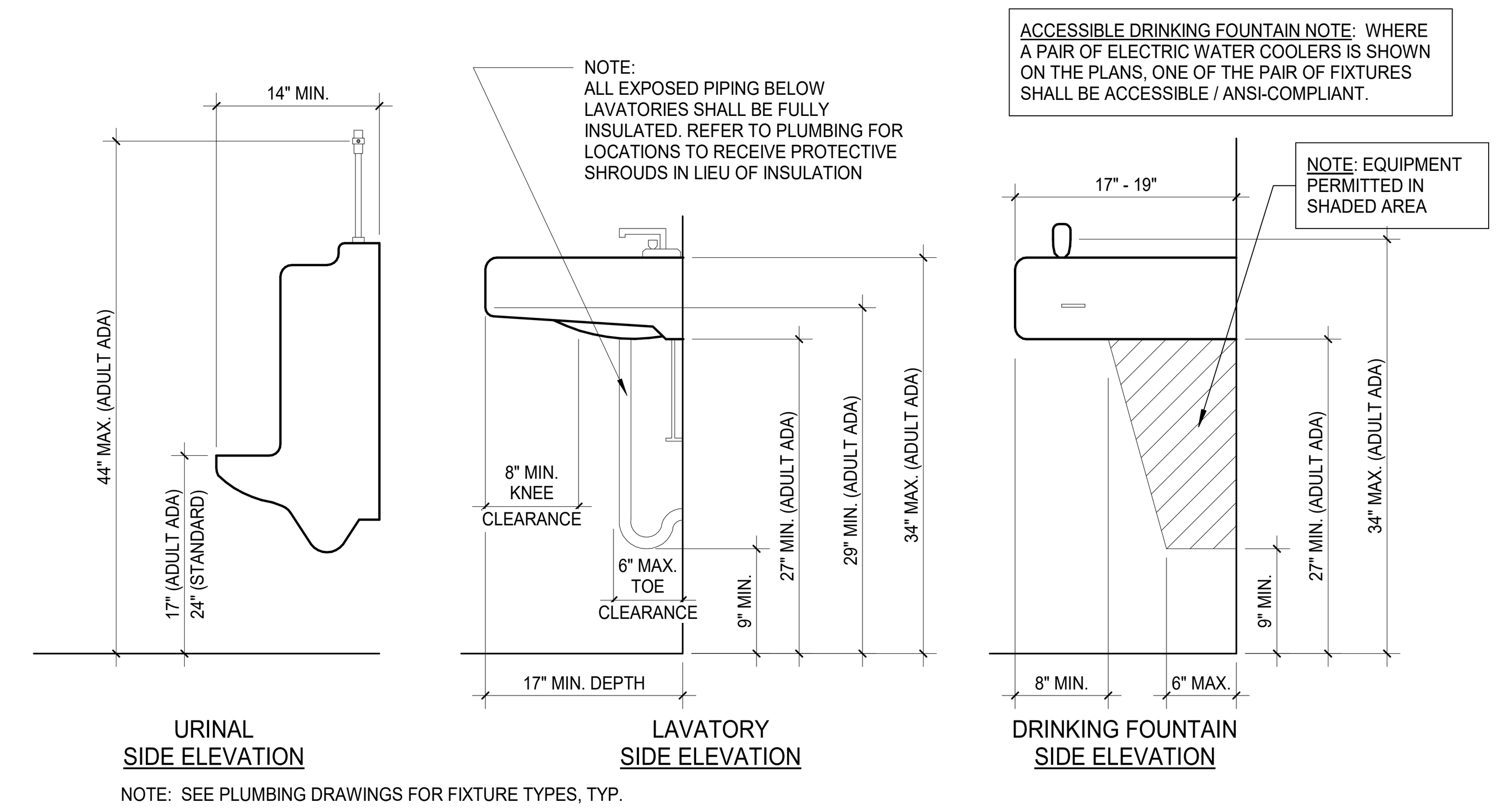
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

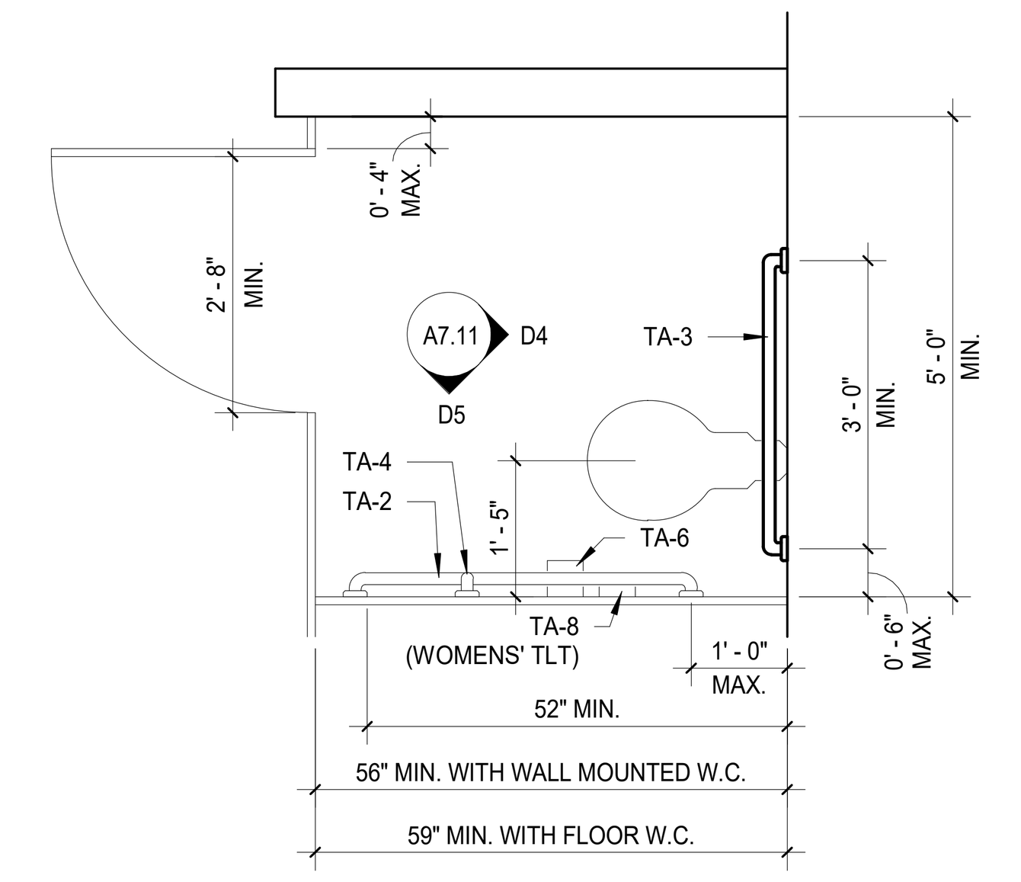
SHEET TITLE:
WALL SECTIONS - AREA A SEQUENCE AT B1/A358

SHEET NO. PROJ. NO. 020420.00

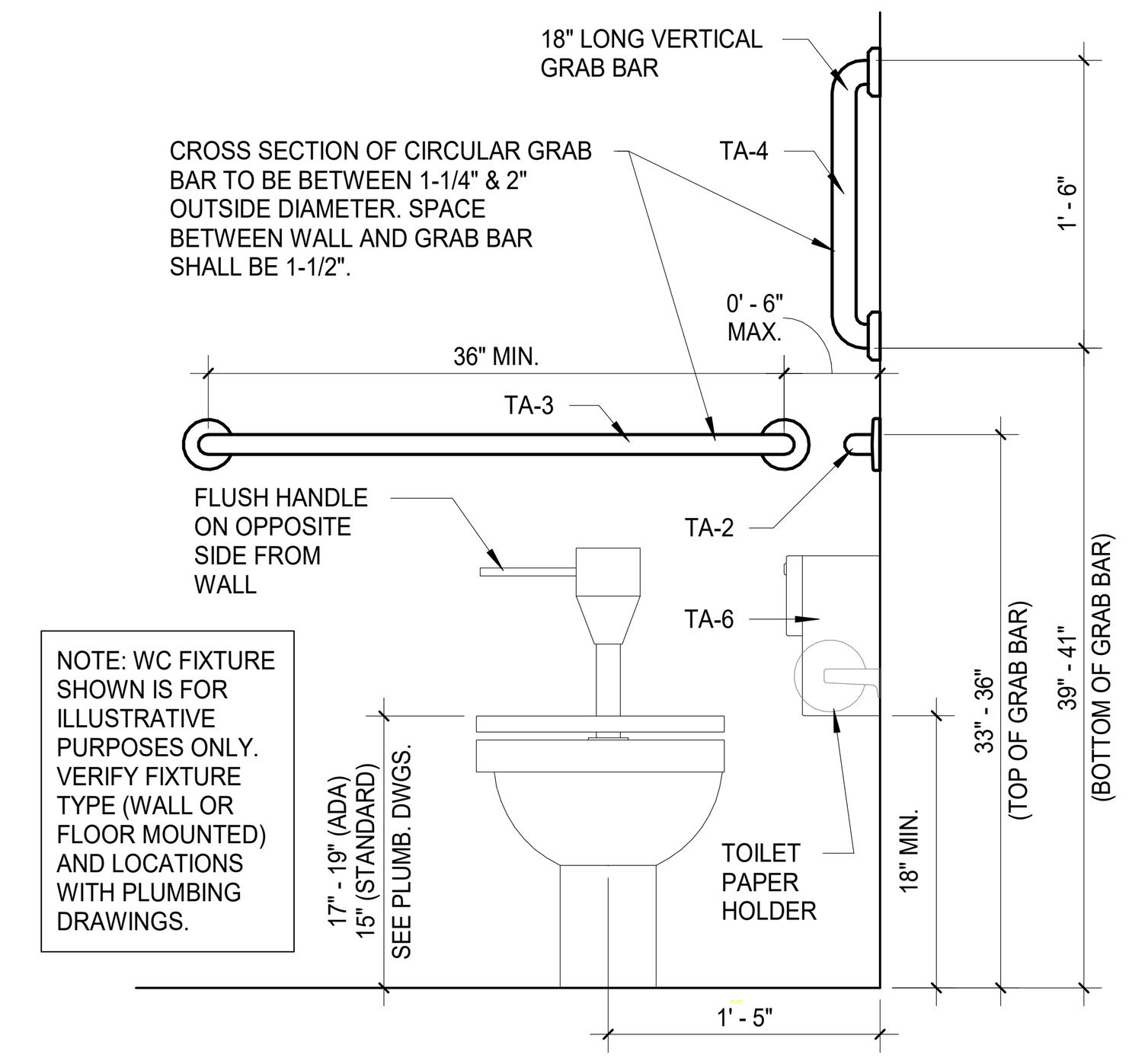
A358



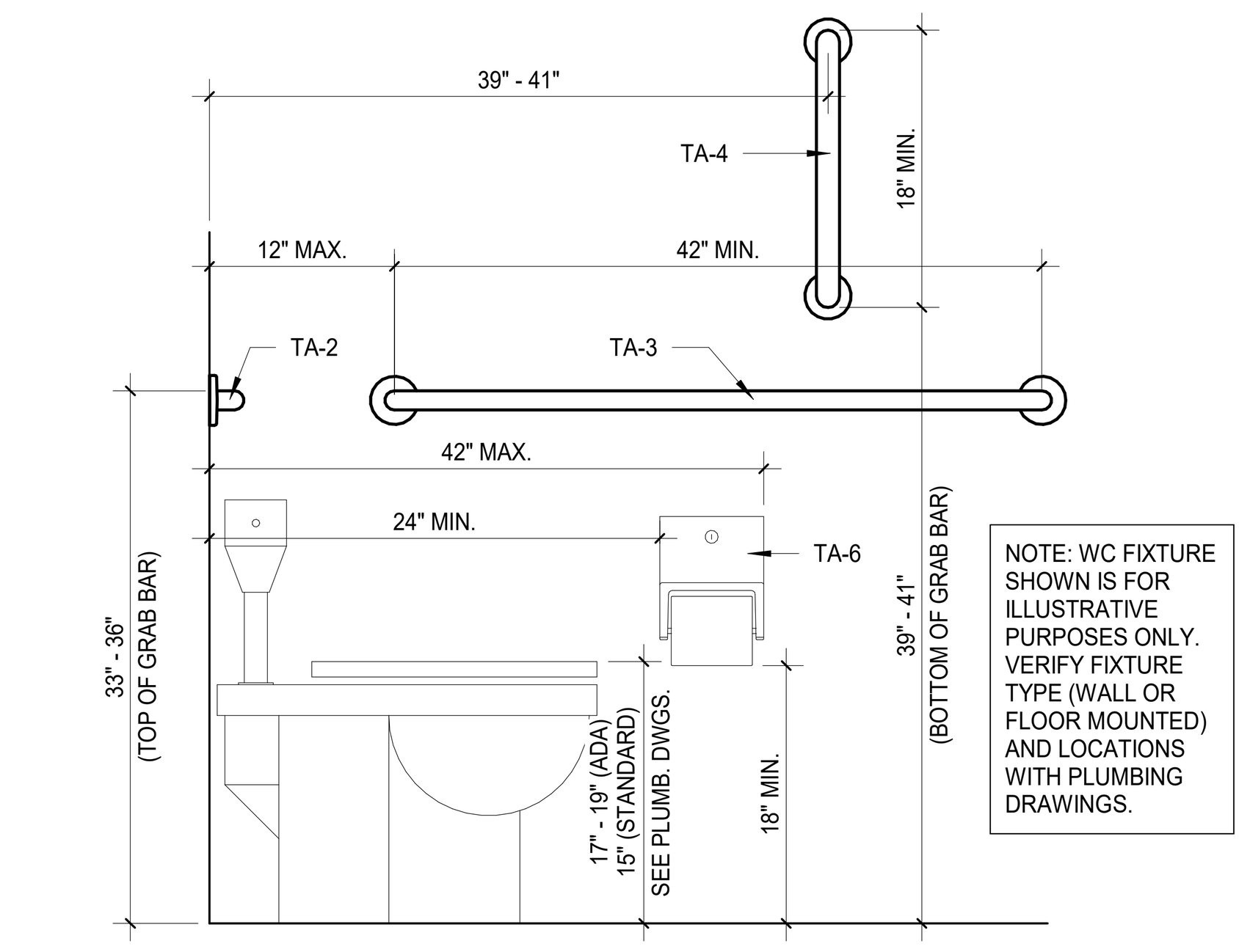
D1 A419 **TOILET FIXTURE MOUNTING HEIGHTS**
3/4" = 1'-0"



D3 A419 **TYPICAL ACCESSIBLE WC STALL PLAN**
1/2" = 1'-0"



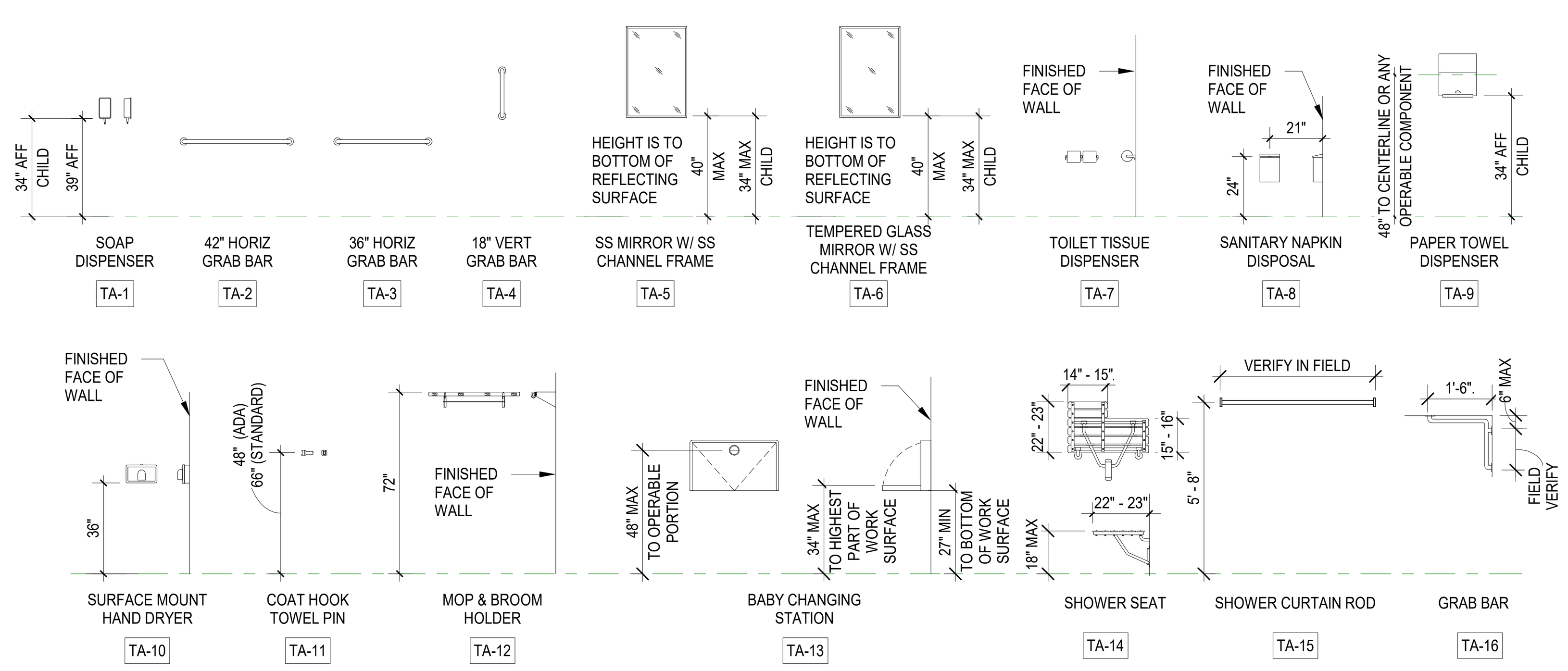
D4 A419 **WC ACCESSORIES MOUNTING HEIGHTS - FRONT**
1" = 1'-0"



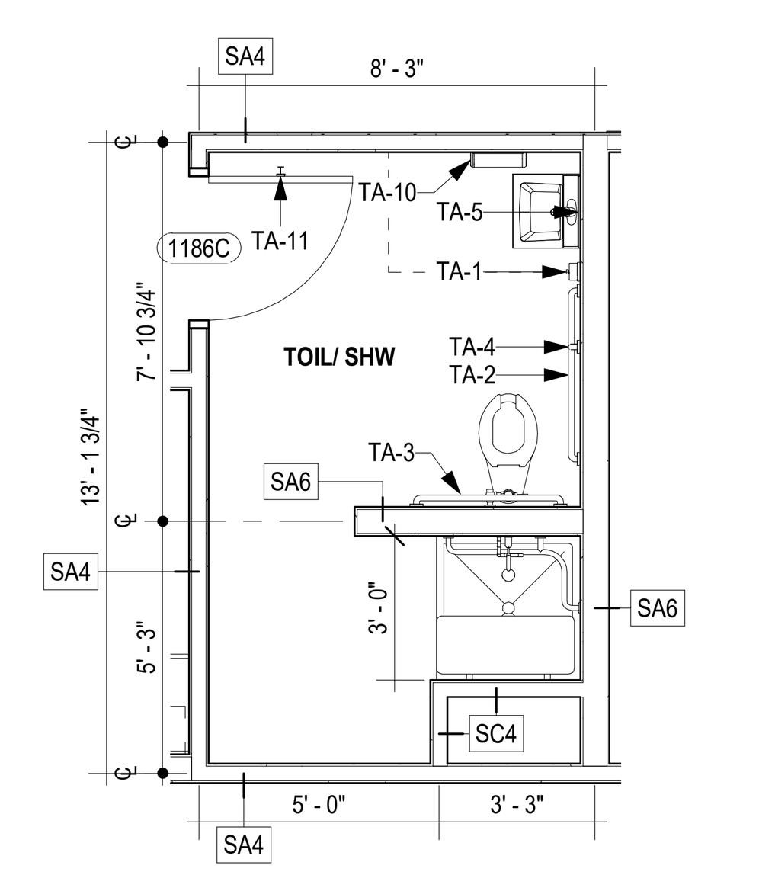
D5 A419 **WC ACCESSORIES MOUNTING HEIGHTS - SIDE**
1" = 1'-0"

TOILET ACCESSORY SCHEDULE			
TAG	ITEM	BASIS OF DESIGN MODEL #	PROVIDE
TA-1	LIQUID SOAP DISPENSER	PROVIDED BY OWNER, INSTALLED BY G.C.	WHERE SHOWN
TA-2	42" LONG GRAB BAR	BOBRICK B-5806x42 OR APPROVED EQUAL	WHERE SHOWN
TA-3	36" LONG GRAB BAR	BOBRICK B-5806x36 OR APPROVED EQUAL	WHERE SHOWN
TA-4	18" LONG VERTICAL GRAB BAR	BOBRICK B-5806x18 OR APPROVED EQUAL	WHERE SHOWN
TA-5	MIRROR UNIT (18" X 36") W/ S.S. FRAME	BOBRICK B-165-1836 OR APPROVED EQUAL	WHERE SHOWN
TA-6	TOILET TISSUE DISPENSER	PROVIDED BY OWNER, INSTALLED BY G.C.	WHERE SHOWN
TA-7	PAPER TOWEL DISPENSER	PROVIDED BY OWNER, INSTALLED BY G.C.	WHERE SHOWN
TA-8	SANITARY NAPKIN DISPOSAL	PROVIDED BY OWNER, INSTALLED BY G.C.	WHERE SHOWN
TA-9	MIRROR UNIT (24" X 60") W/ S.S. FRAME	BOBRICK B-165x2460 OR APPROVED EQUAL	WHERE SHOWN
TA-10	TOWEL/COAT PIN, SATIN FINISH	BOBRICK B-6777 OR APPROVED EQUAL	ONE AT EACH INDIV. SHOWER/TOILET ROOM
TA-11	SOAP DISH, SATIN FINISH	BOBRICK B-6807 OR APPROVED EQUAL	ONE AT EACH INDIVIDUAL SHOWER
TA-12	UTILITY SHELF WITH MOP HOLDER	BOBRICK B-224 X 36 SERIES OR APPROVED EQUAL	ONE AT EACH CUSTODIAL CLOSET
TA-13	SHOWER BASE - ADA, TERRAZZO, 36" SQUARE	ACORN TERRAZZO-WARE #SBADAR-36-3F OR EQUAL	ONE AT EACH ADA-ACCESSIBLE SHOWER
TA-14	SOLID PHENOLIC FOLDING SHOWER SEAT	BOBRICK B-5181 OR APPROVED EQUAL	ONE AT EACH ADA-ACCESSIBLE SHOWER
TA-15	SHOWER CURTAIN ROD, HEAVY-DUTY	BOBRICK B-6047 OR APPROVED EQUAL	ONE AT EACH INDIVIDUAL SHOWER
TA-16	SHOWER CURTAIN HOOKS	BOBRICK B-204-1 OR APPROVED EQUAL	ONE AT EACH INDIVIDUAL SHOWER
TA-17	ANTIBACTERIAL SHOWER CURTAIN	BOBRICK B-204-2 OR APPROVED EQUAL	ONE AT EACH INDIVIDUAL SHOWER
TA-18	18" LONG VERTICAL GRAB BAR	BOBRICK B-5806x18 OR APPROVED EQUAL	WHERE SHOWN
TA-19	ELECTRIC HAND DRYER	ASI 0185-93 OR APPROVED EQUAL	WHERE SHOWN
TA-20	BABY-CHANGING STATION, WALL-MOUNTED	BOBRICK KB200-00 OR APPROVED EQUAL	ONE EACH "FAMILY TOILET" & WHERE SHOWN

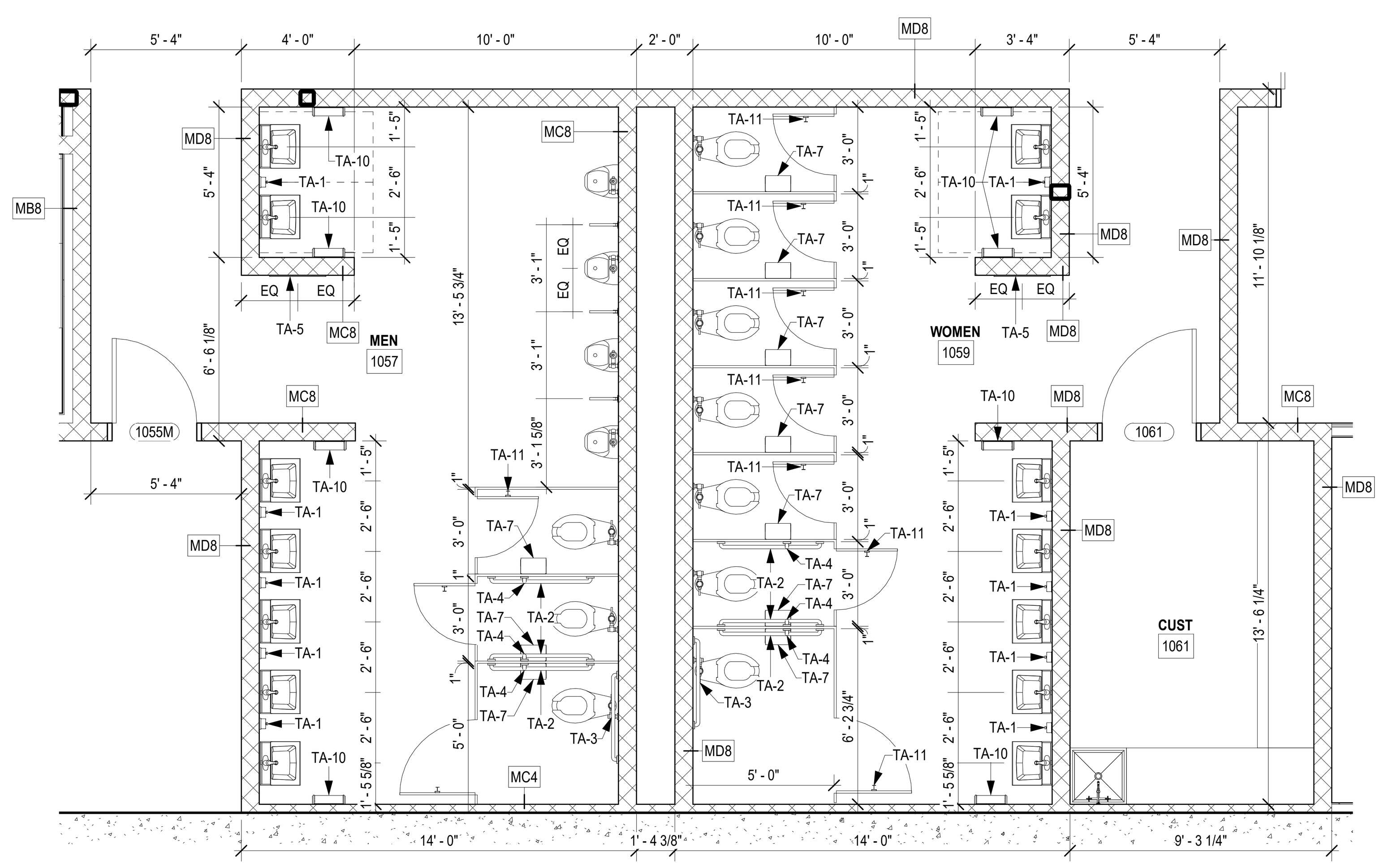
GENERAL NOTES:
1. SEE SPECIFICATIONS FOR LIST OF APPROVED EQUAL MANUFACTURERS.
2. WHERE THE ACCESSORY IS PROVIDED BY OWNER, CONTRACTOR SHALL COORDINATE WITH OWNER, THEIR VENDOR, FIELD CONDITIONS, MILLWORK, PLUMBING FIXTURES, ETC.



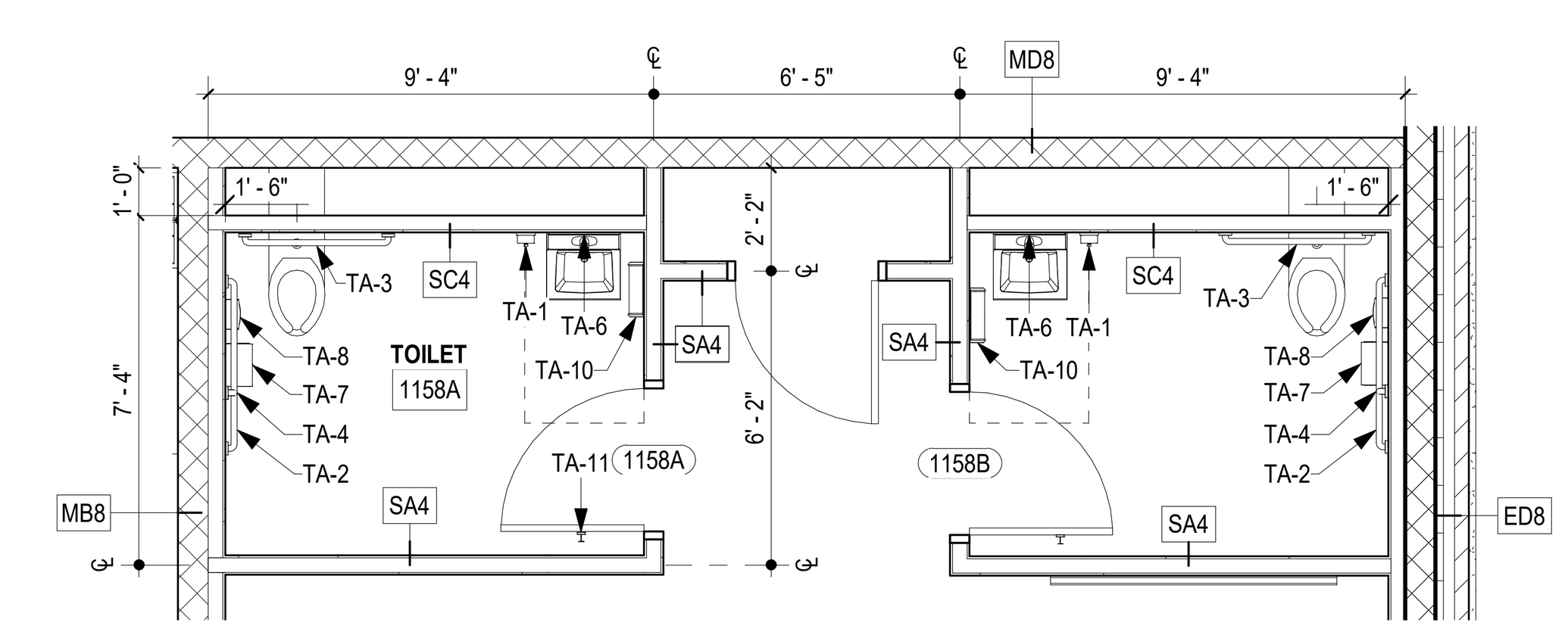
C1 A419 **TOILET ACCESSORIES LEGEND**
1/4" = 1'-0"



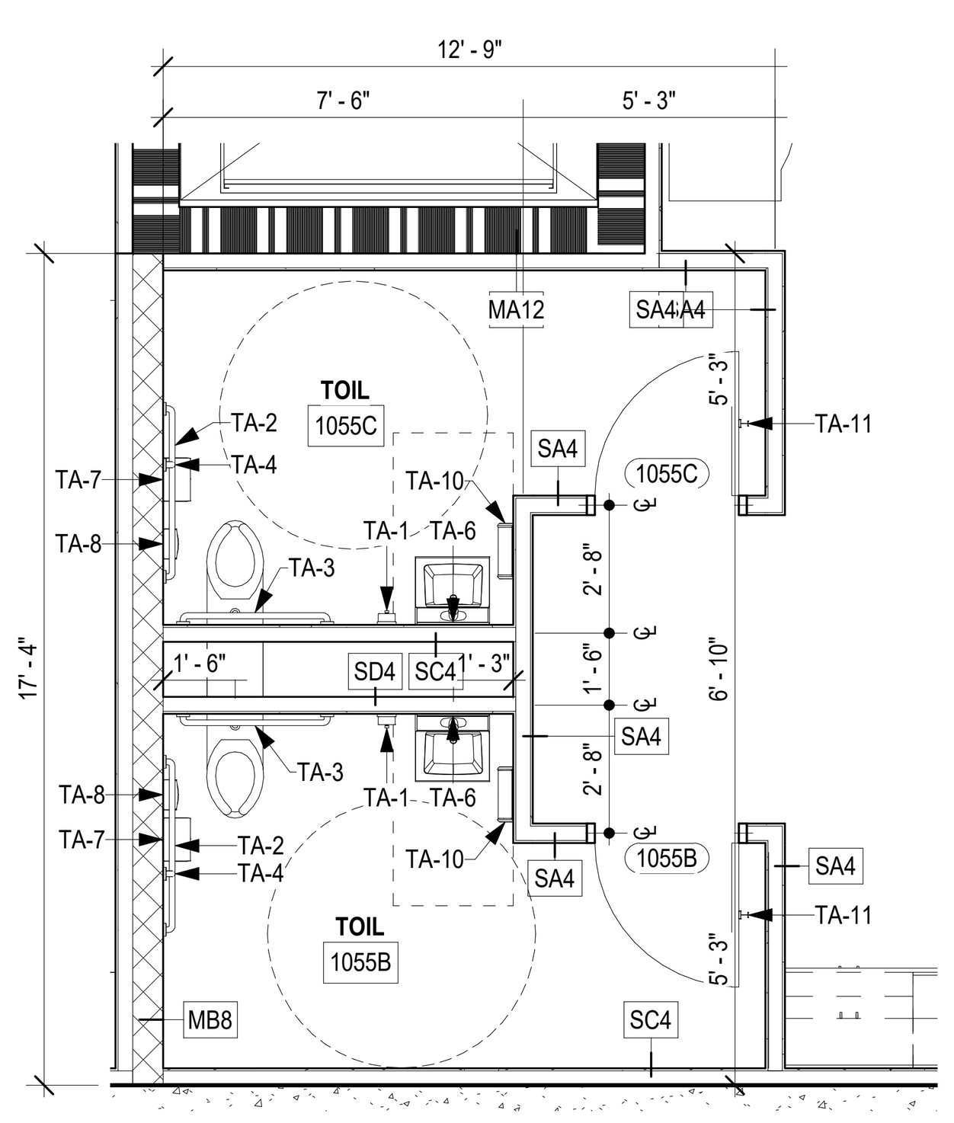
B5 A419 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED NURSE TLT PLAN AREA C**
1/4" = 1'-0"



A1 A419 **PHASE 2 1000 LEVEL (856.73') - 1/4" ENLARGED RESTROOM PLAN AREA B**
1/4" = 1'-0"



A3 A419 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED WORKROOM TLT 1 PLAN AREA C**
1/4" = 1'-0"



A5 A419 **PHASE 2 1000 LEVEL (856.73') - 1/4" ENLARGED WORKROOM TLT PLAN AREA B**
1/4" = 1'-0"

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ARCHITECTURE

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION FOR PRICING ONLY

SHEET ISSUE:

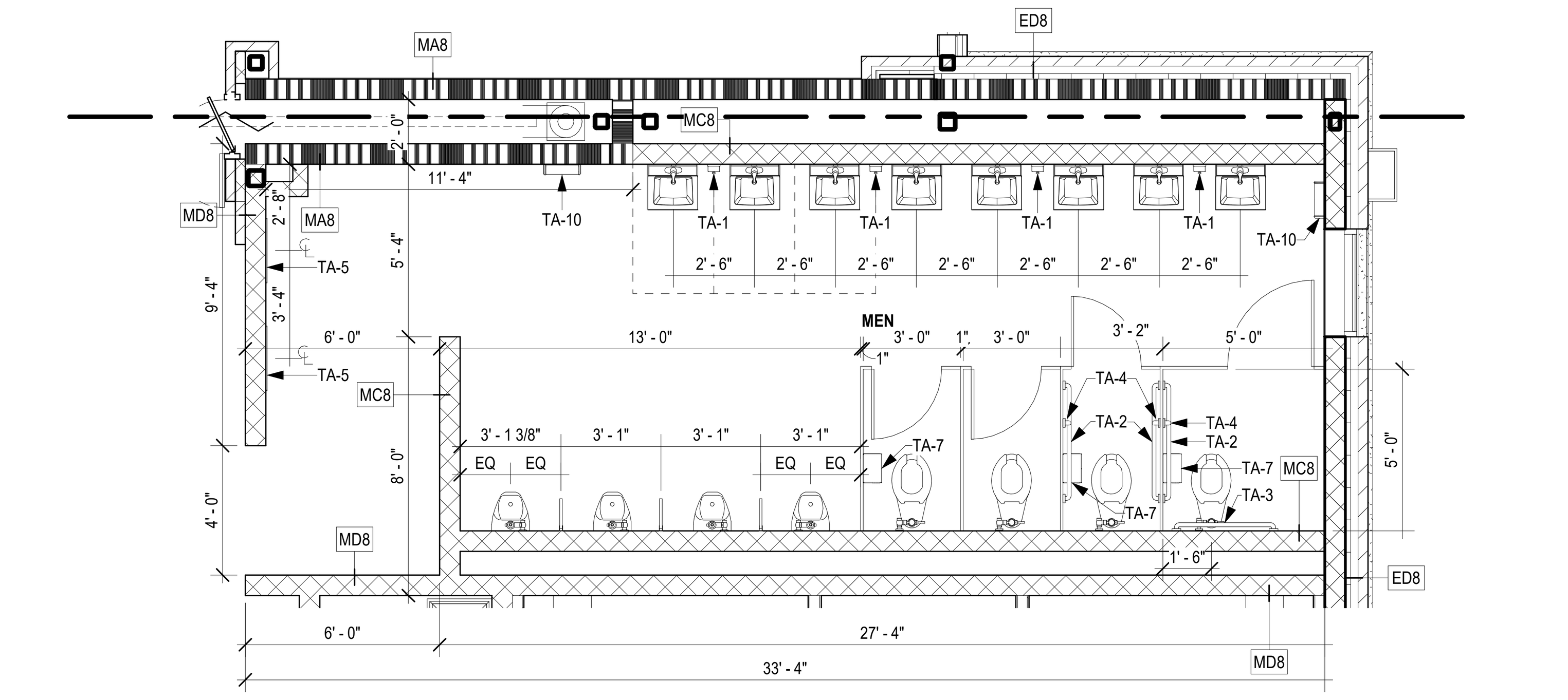
NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

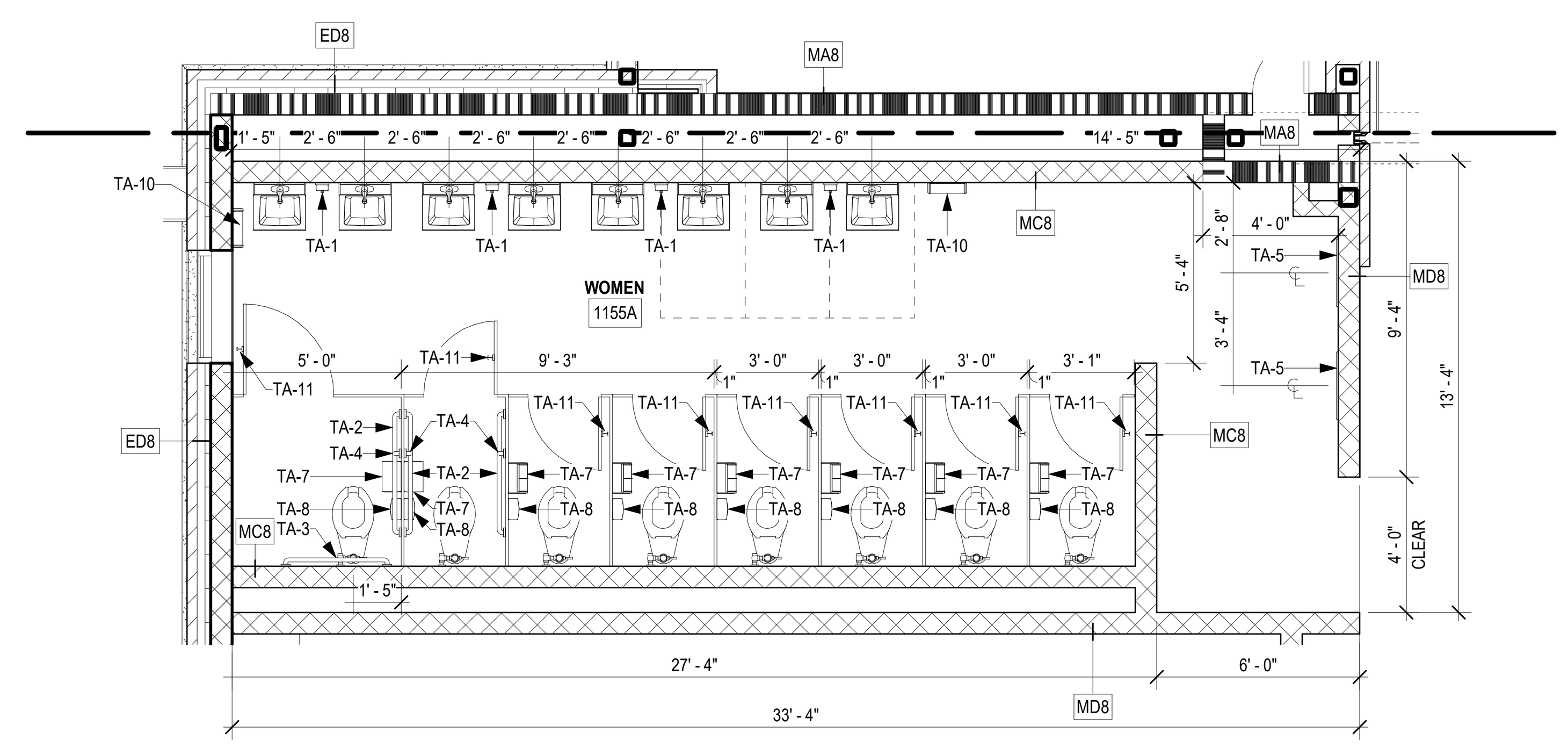
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RJW, SEA

SHEET TITLE:
ENLARGED TOILET PLANS

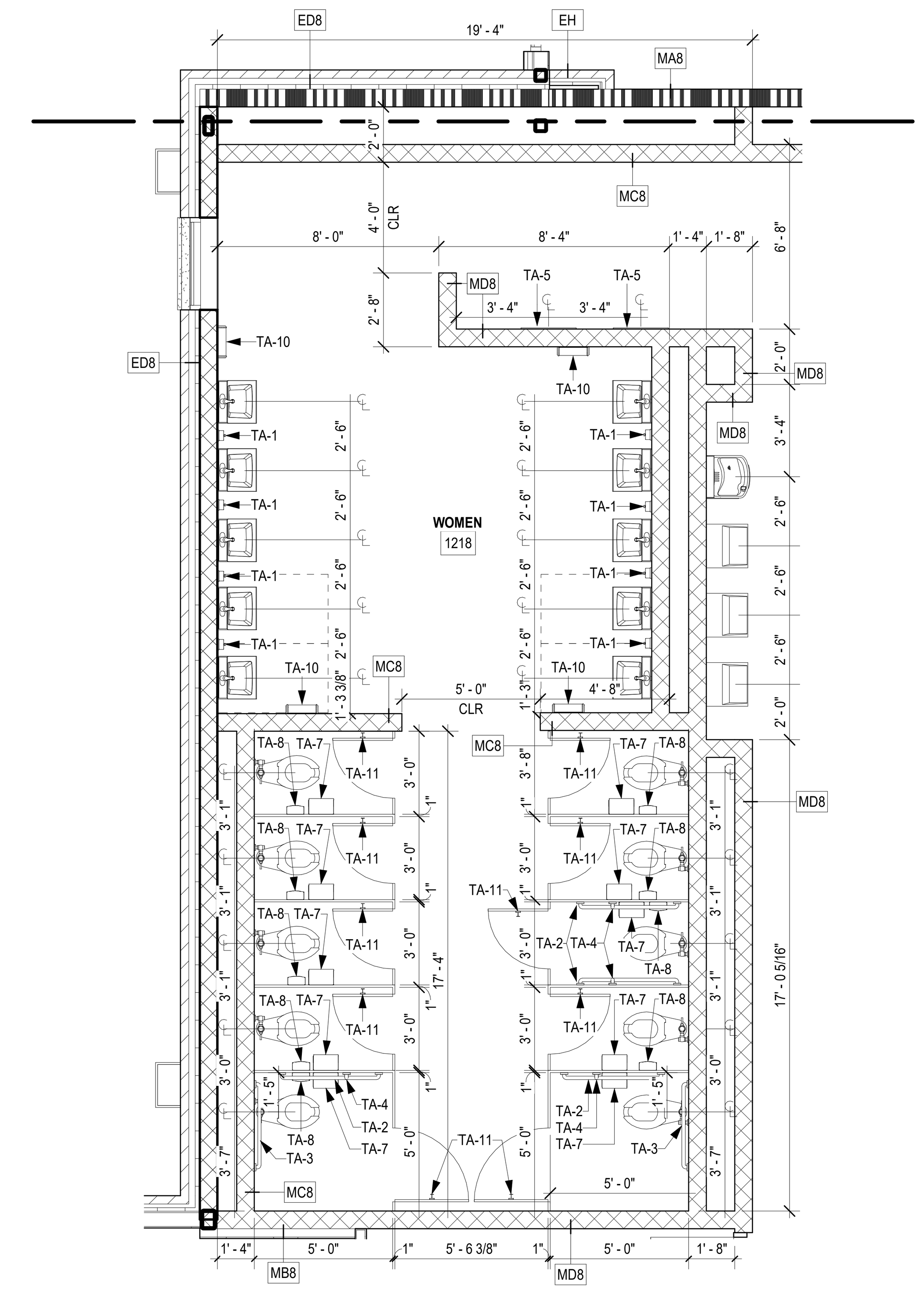
SHEET NO. A419
PROJ. NO. 020420.00



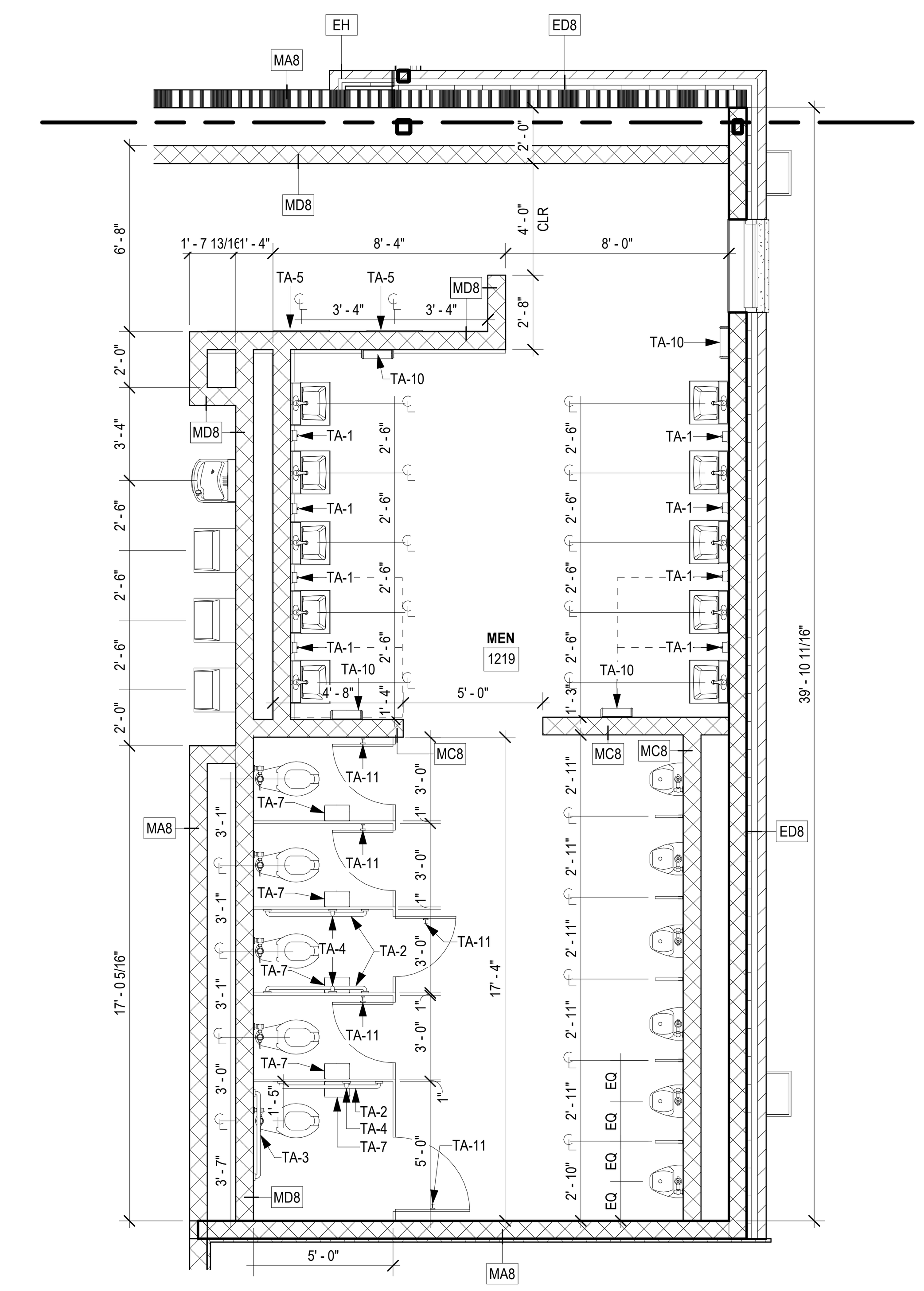
D1 A420 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED MENS TLT PLAN AREA C**
1/4" = 1'-0"



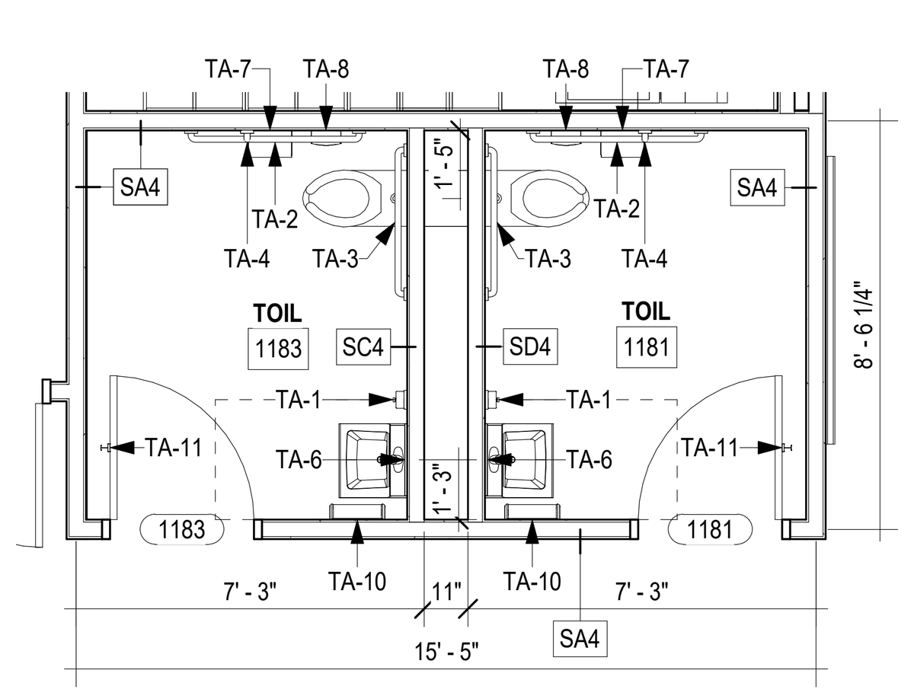
C1 A420 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED WOMENS TLT PLAN AREA C**
1/4" = 1'-0"



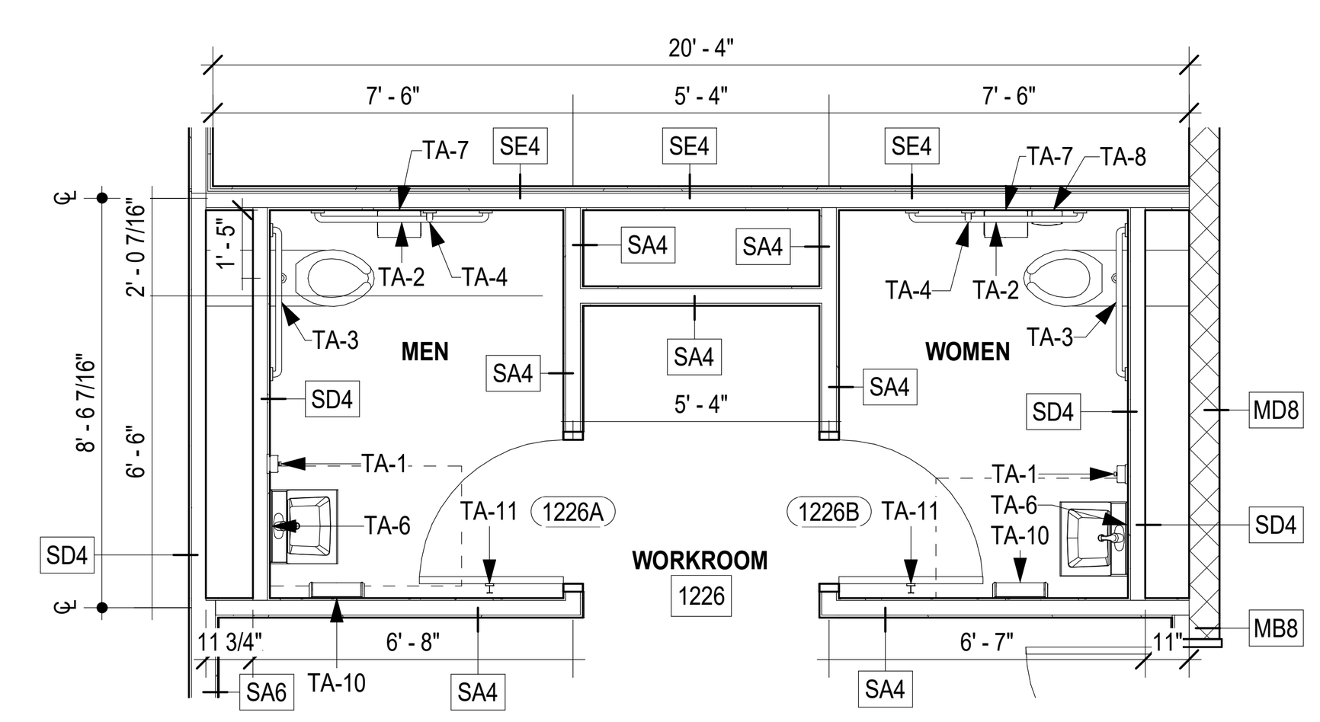
C3 A420 **PHASE 2 1200 LEVEL (887.16') - 1/4" ENLARGED WOMENS TLT PLAN AREA C**
1/4" = 1'-0"



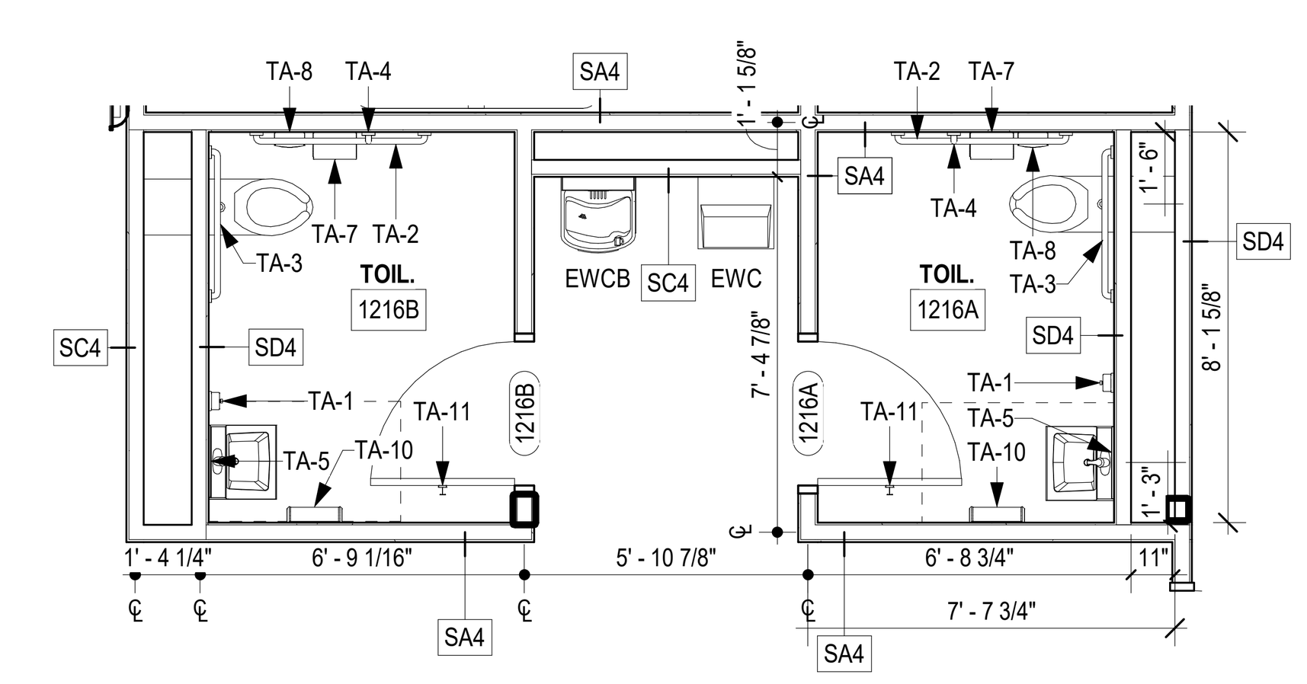
C5 A420 **PHASE 2 1200 LEVEL (887.16') - 1/4" ENLARGED MENS TLT PLAN AREA C**
1/4" = 1'-0"



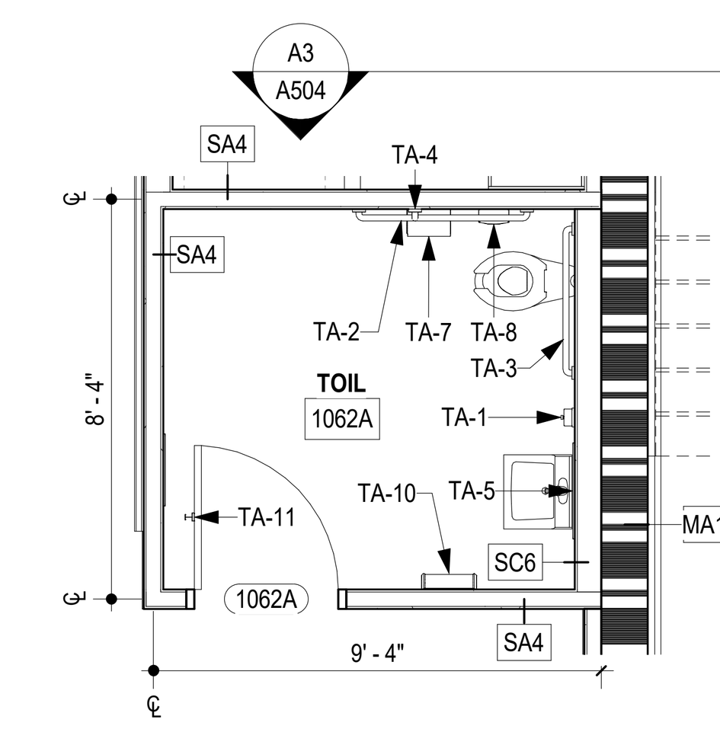
B1 A420 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED ADMIN TLT PLAN AREA C**
1/4" = 1'-0"



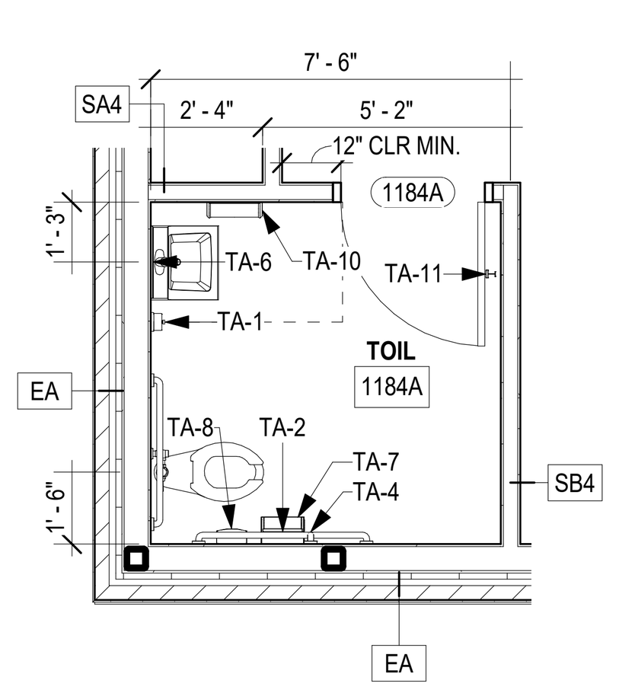
B3 A420 **PHASE 2 1200 LEVEL (887.16') - 1/4" ENLARGED WORKROOM TLTS PLAN AREA C**
1/4" = 1'-0"



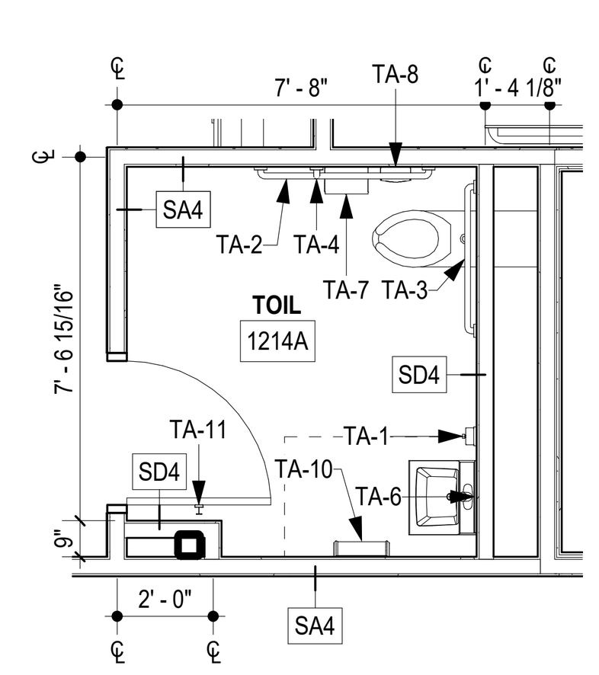
B4 A420 **PHASE 2 1200 LEVEL (887.16') - 1/4" ENLARGED TLT PLAN AREA B**
1/4" = 1'-0"



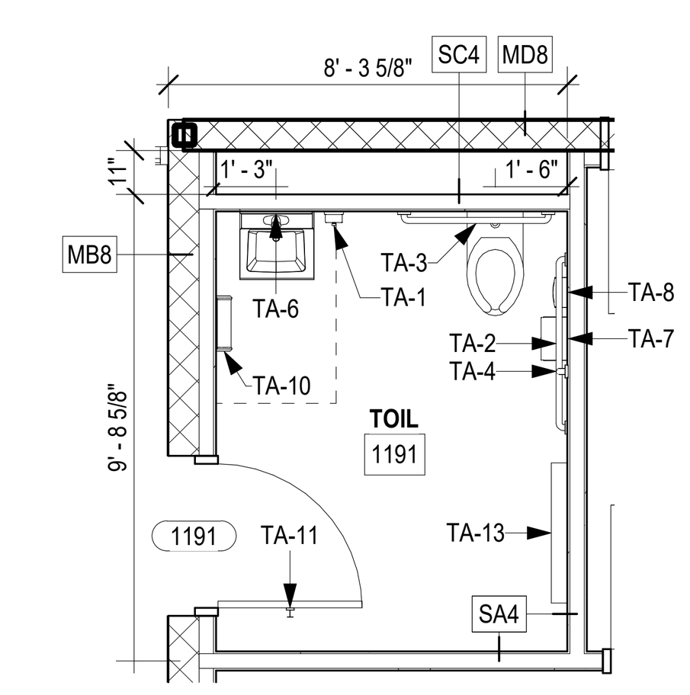
B5 A420 **PHASE 2 1000 LEVEL (856.73') - 1/4" ENLARGED TLT PLAN AREA B**
1/4" = 1'-0"



A1 A420 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED PRINCIPAL TLT PLAN AREA C**
1/4" = 1'-0"



A3 A420 **PHASE 2 1200 LEVEL (887.16') - 1/4" ENLARGED TLT PLAN AREA A**
1/4" = 1'-0"



A4 A420 **PHASE 2 1100 LEVEL (871.16') - 1/4" ENLARGED GUIDANCE TLT PLAN AREA C**
1/4" = 1'-0"

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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

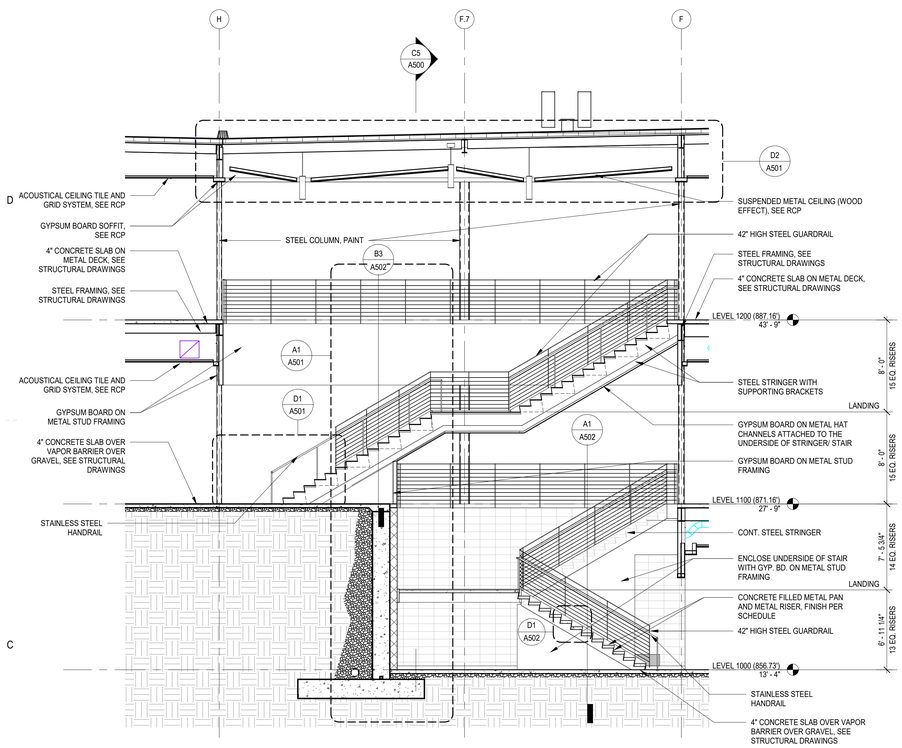
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RJW, SEA

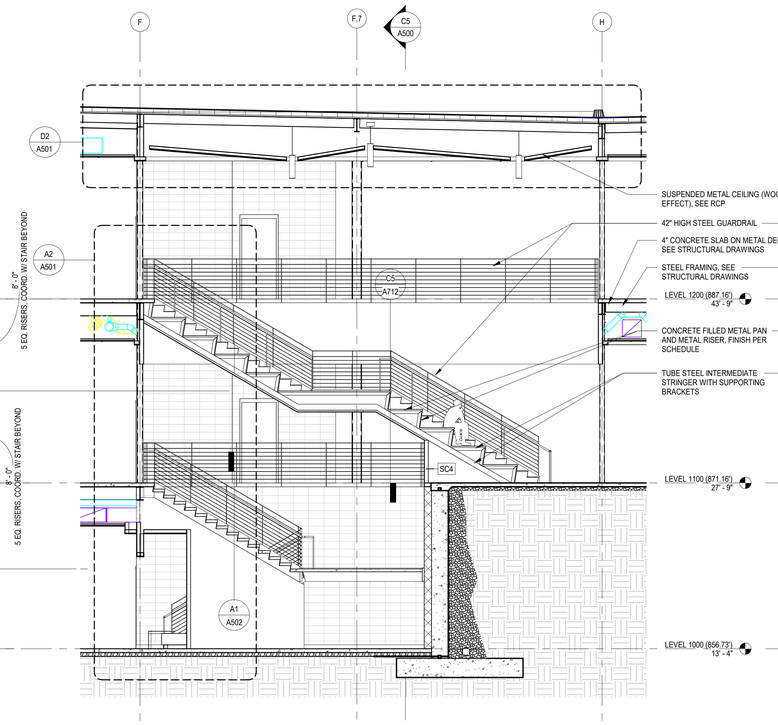
SHEET TITLE:
ENLARGED TOILET PLANS

SHEET NO. PROJ. NO. 020420.00

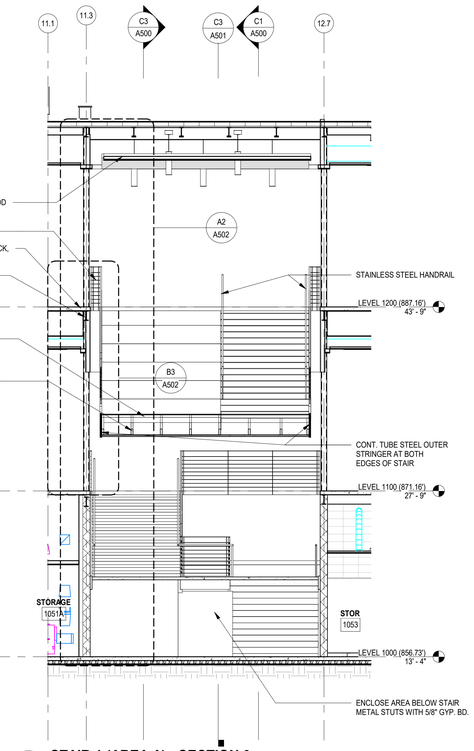
A420



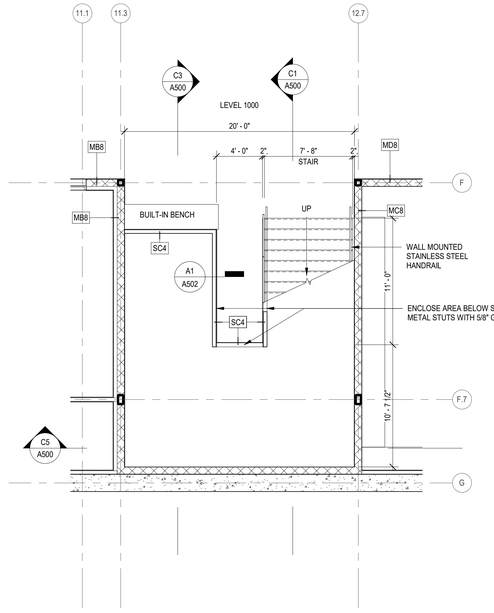
C1 A500 **STAIR 1 (AREA A) - SECTION 1**
3/16" = 1'-0"



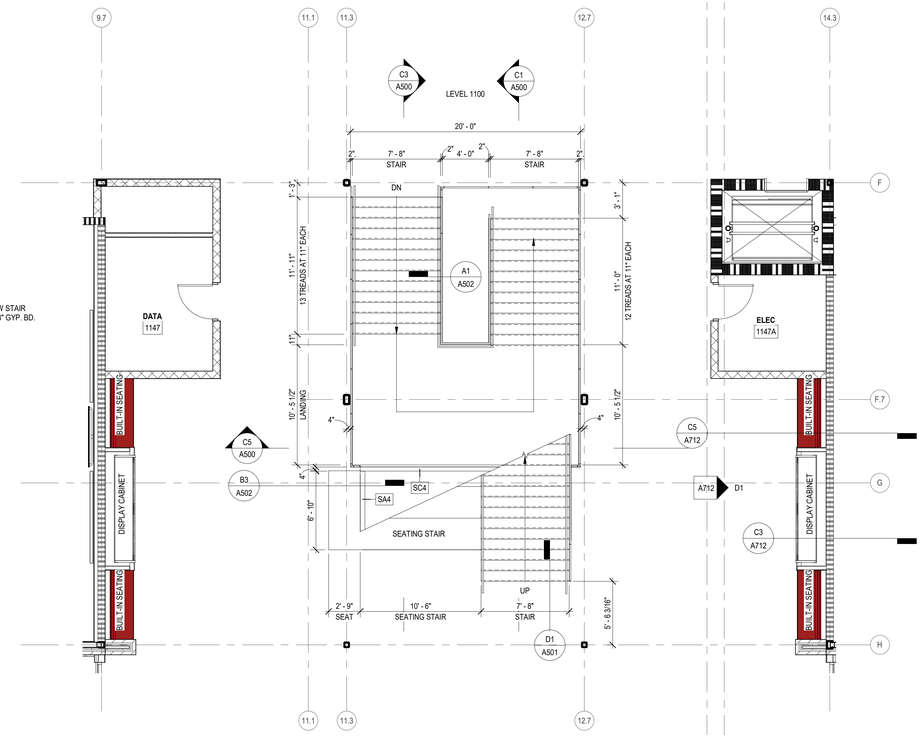
C3 A500 **STAIR 1 (AREA A) - SECTION 2**
3/16" = 1'-0"



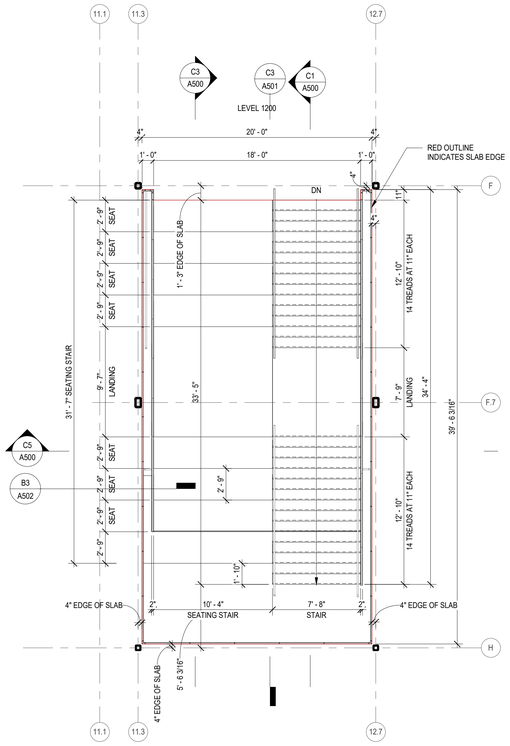
C5 A500 **STAIR 1 (AREA A) - SECTION 3**
3/16" = 1'-0"



A1 A500 **STAIR 1 (AREA A) - PHASE 2 1000 LEVEL**
3/16" = 1'-0"



A2 A500 **STAIR 1 (AREA A) - PHASE 2 1100 LEVEL**
3/16" = 1'-0"



A3 A500 **STAIR 1 (AREA A) - PHASE 2 1200 LEVEL**
3/16" = 1'-0"

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ARCHITECTURE

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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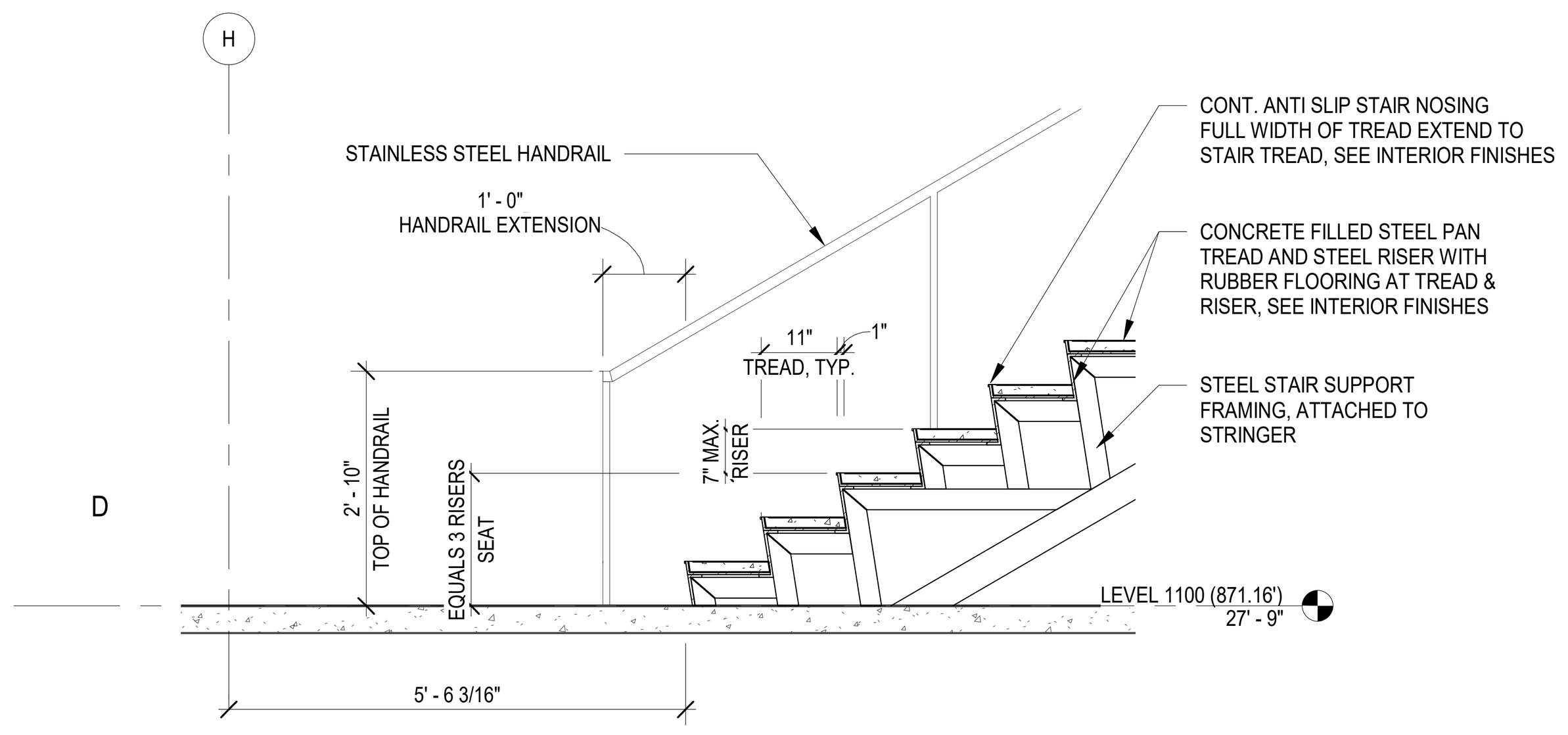
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: CBM

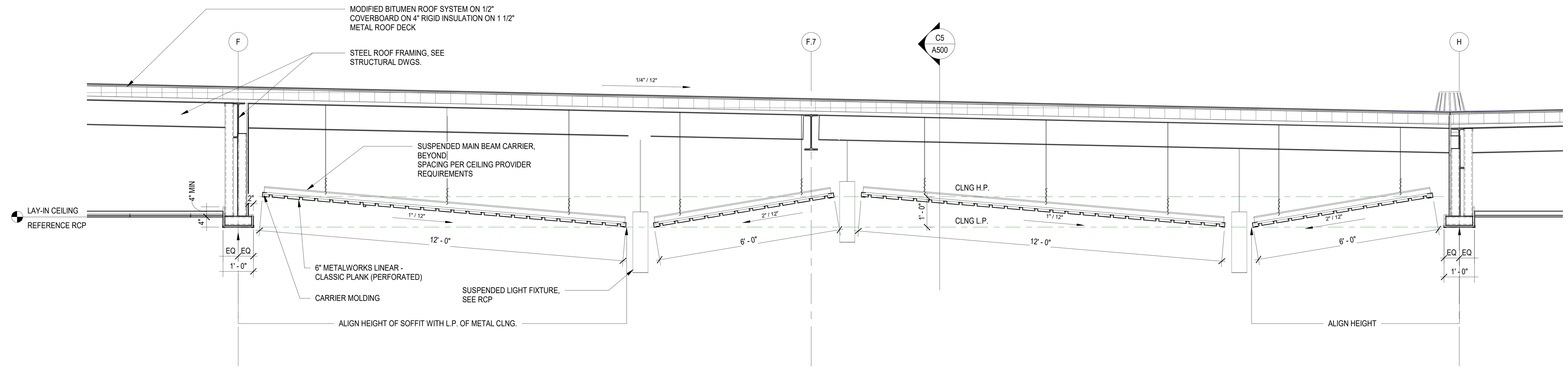
SHEET TITLE:
ENLARGED MONUMENTAL STAIR PLANS & SECTIONS

SHEET NO. A500

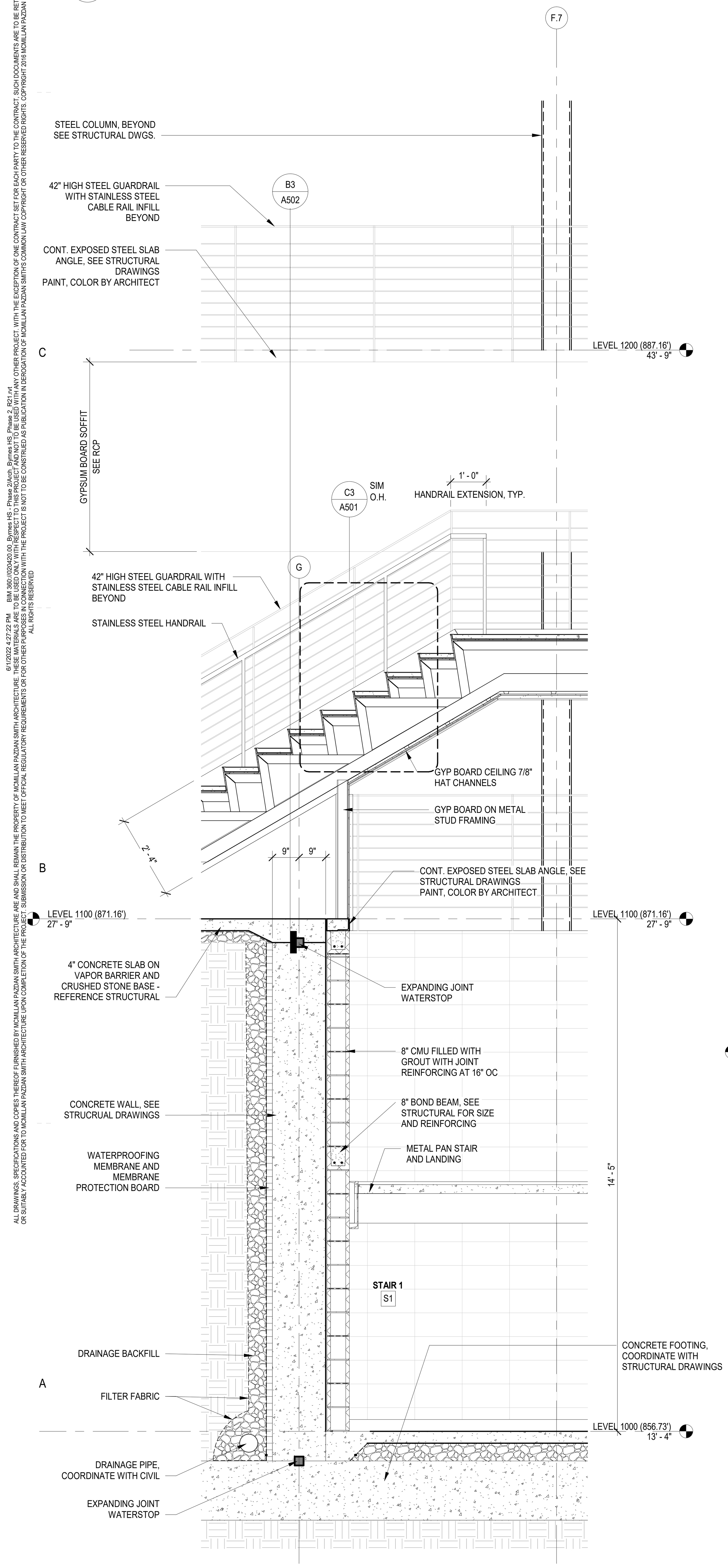
PROJ. NO. 020420.00



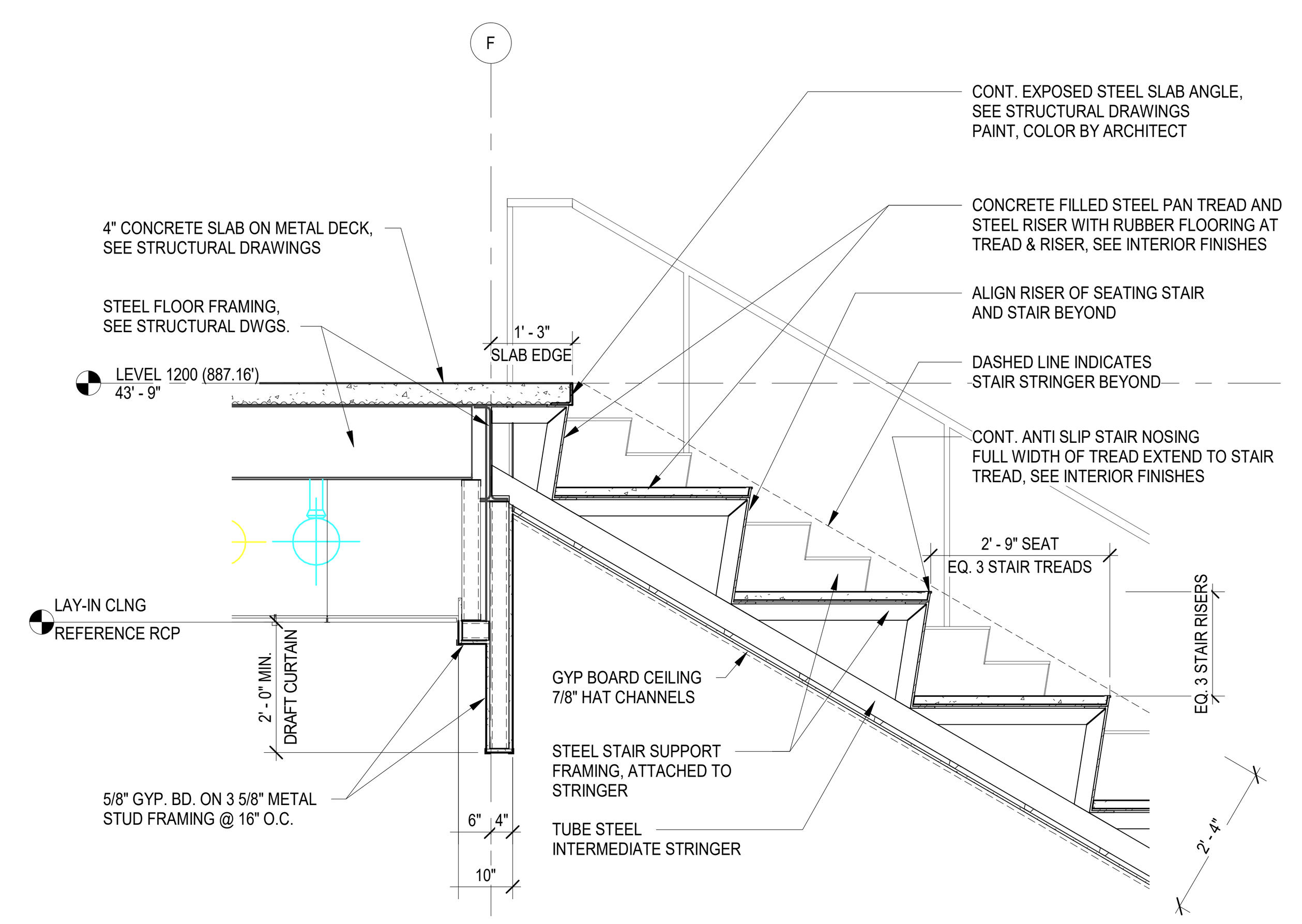
D1 A501 **STAIR 1 (AREA A) - SECTION**
1/2" = 1'-0"

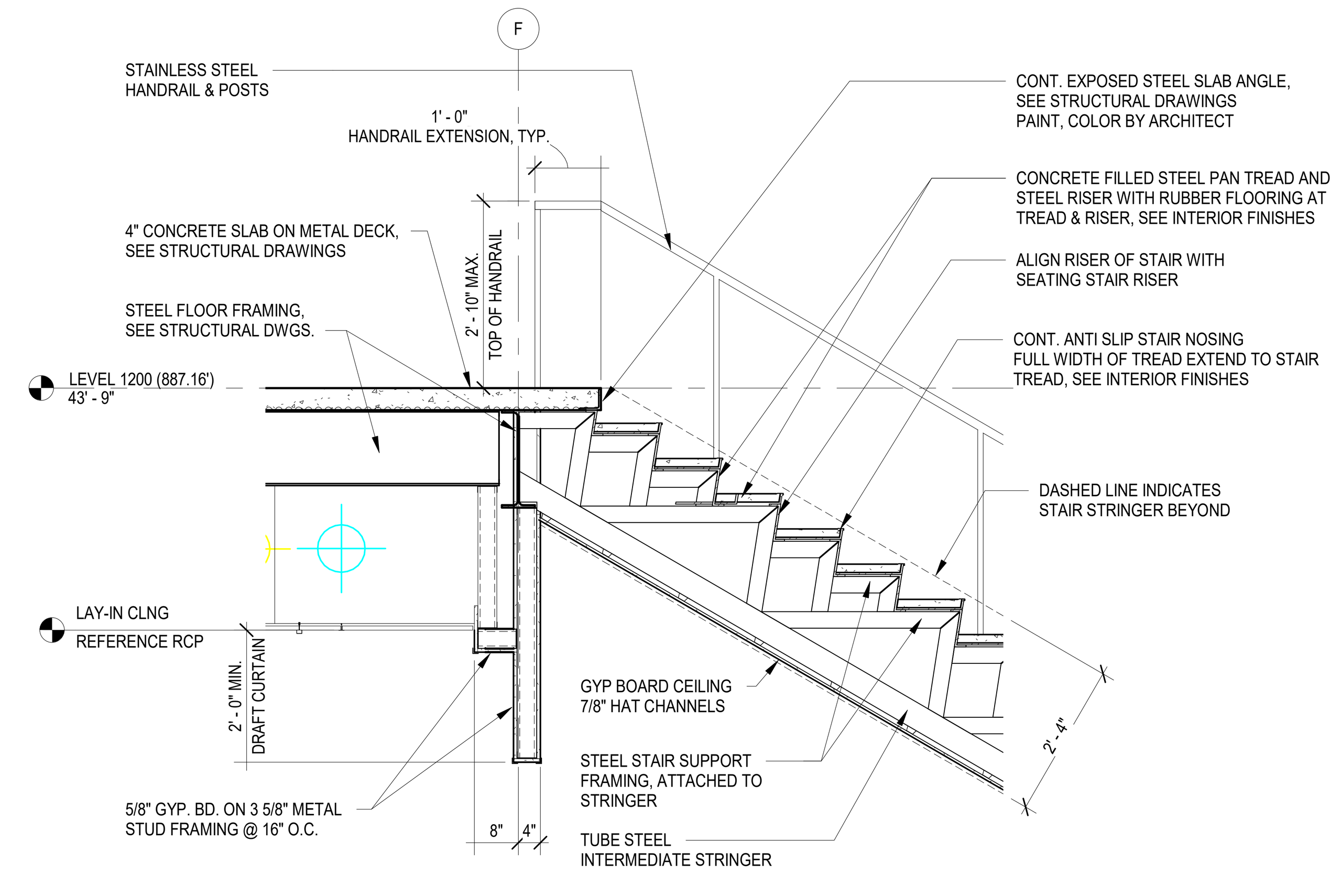


D2 A501 **STAIR 1 (AREA A) - CEILING SECTION**
1/2" = 1'-0"

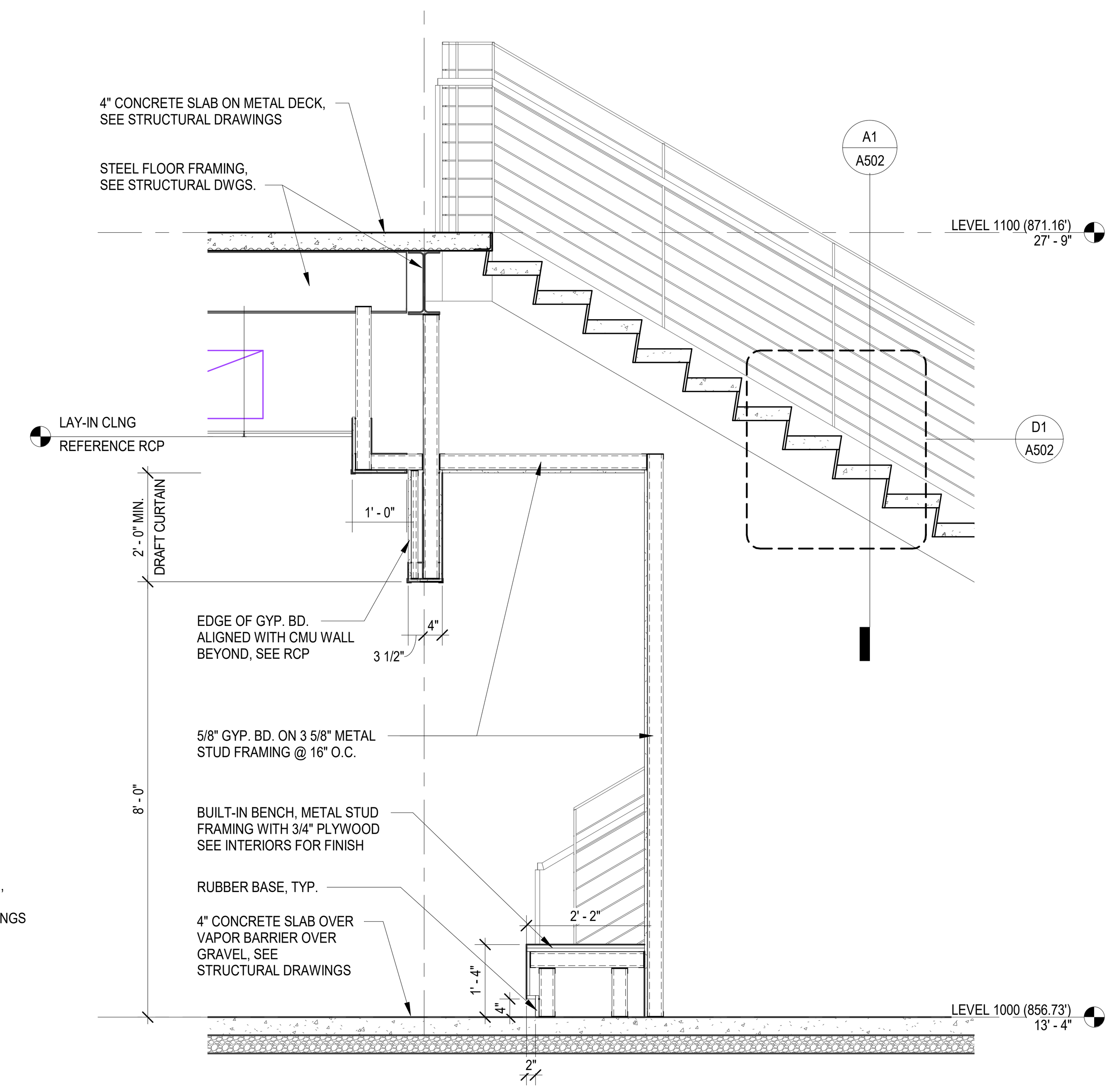


A1 A501 **STAIR 1 (AREA A) - SECTION**
1/2" = 1'-0"



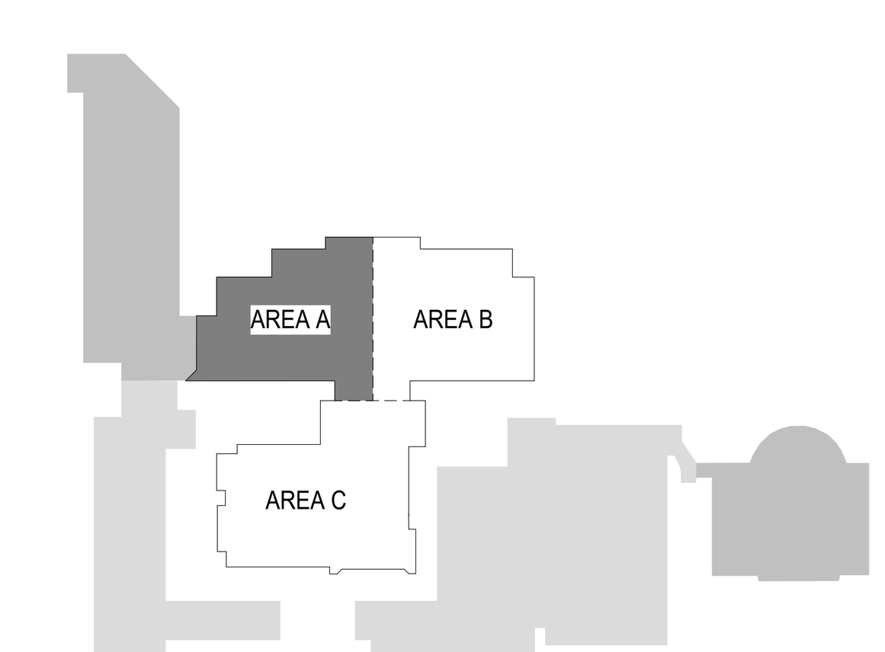


C3 A501 **STAIR 1 (AREA A) - SECTION**
1/2" = 1'-0"



A2 A501 **STAIR 1 (AREA A) - SECTION**
1/2" = 1'-0"

A3 A501 **Area A - STAIR 1 (FOR VISUALIZATION ONLY)**



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ARCHITECTURE

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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B	02/28/22	DD PRICING	MLC
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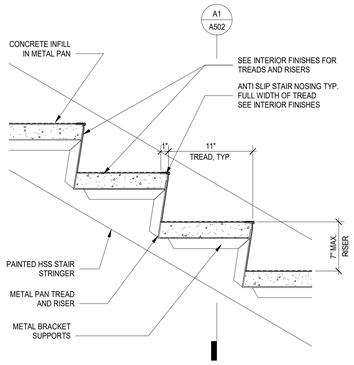
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: CBM

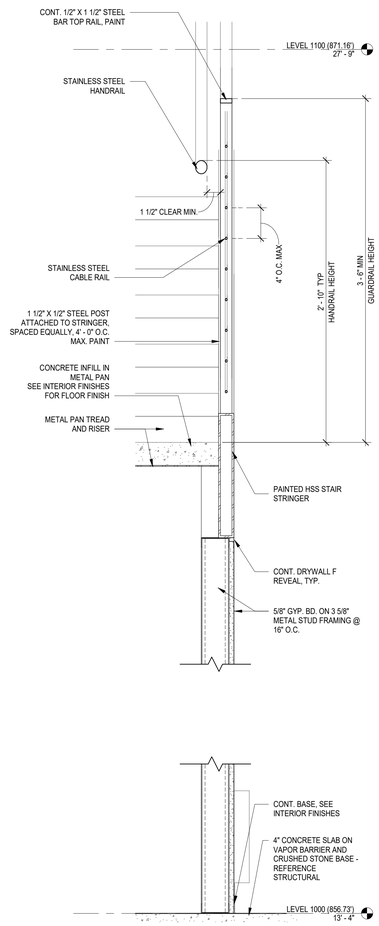
SHEET TITLE:
MONUMENTAL STAIR DETAILS

SHEET NO. PROJ. NO. 020420.00

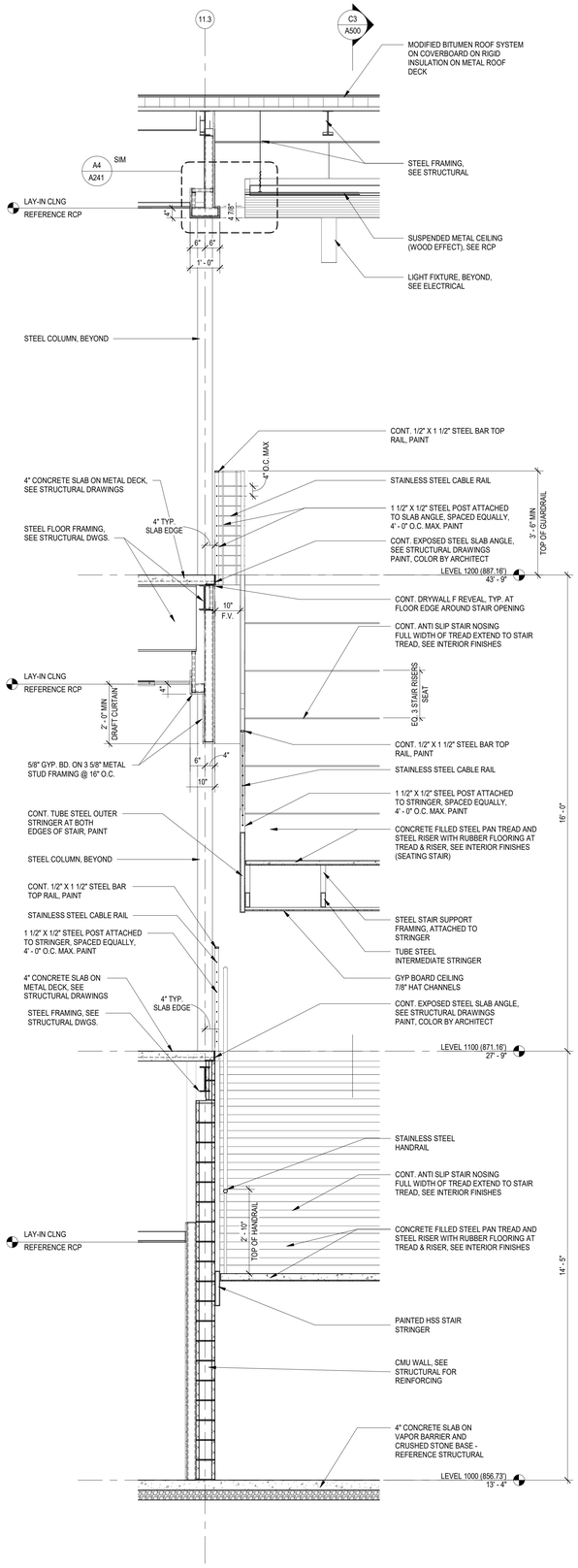
A501



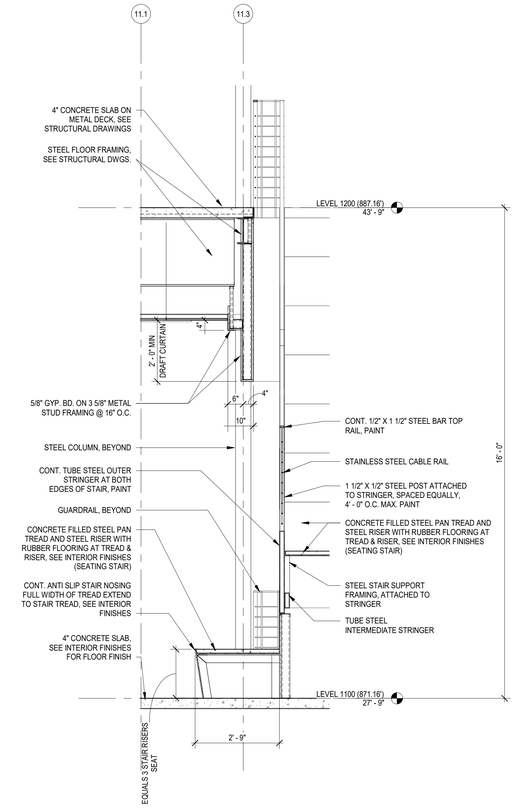
D1 A502 **STAIR DETAIL TYP.**
1 1/2" = 1'-0"



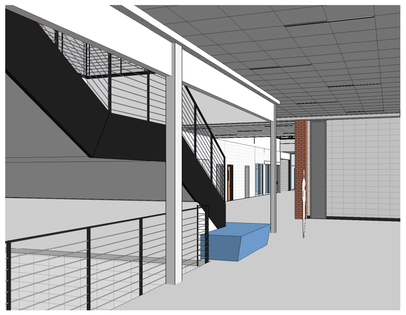
A1 A502 **STAIR 1 (AREA A) - DETAIL SECTION**
1 1/2" = 1'-0"



A2 A502 **STAIR 1 (AREA A) - DETAIL SECTION 2**
1/2" = 1'-0"



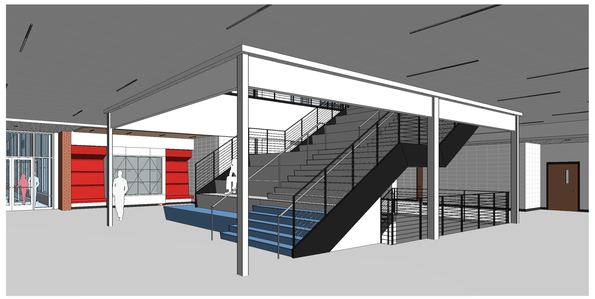
B3 A502 **STAIR 1 (AREA A) - DETAIL SECTION 3**
1/2" = 1'-0"



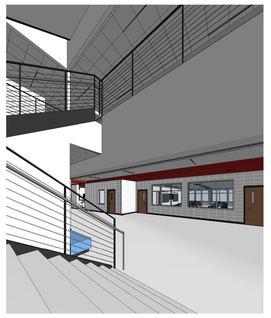
A3 A502 **_13 Monumental Stair Interior 1100 LEVEL**

D5 A502 **_6 Clerestory Interior**

C5 A502 **_4 Monumental Stair Interior**

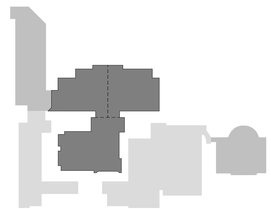


B5 A502 **_5 Monumental Stair Interior**



A5 A502 **_8 Lower Stair 1000 LEVEL**

NOTE: 3D IMAGES ARE SHOWN FOR VISUALIZATION ONLY



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ARCHITECTURE

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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C	06/01/22	GMP SET	MLC

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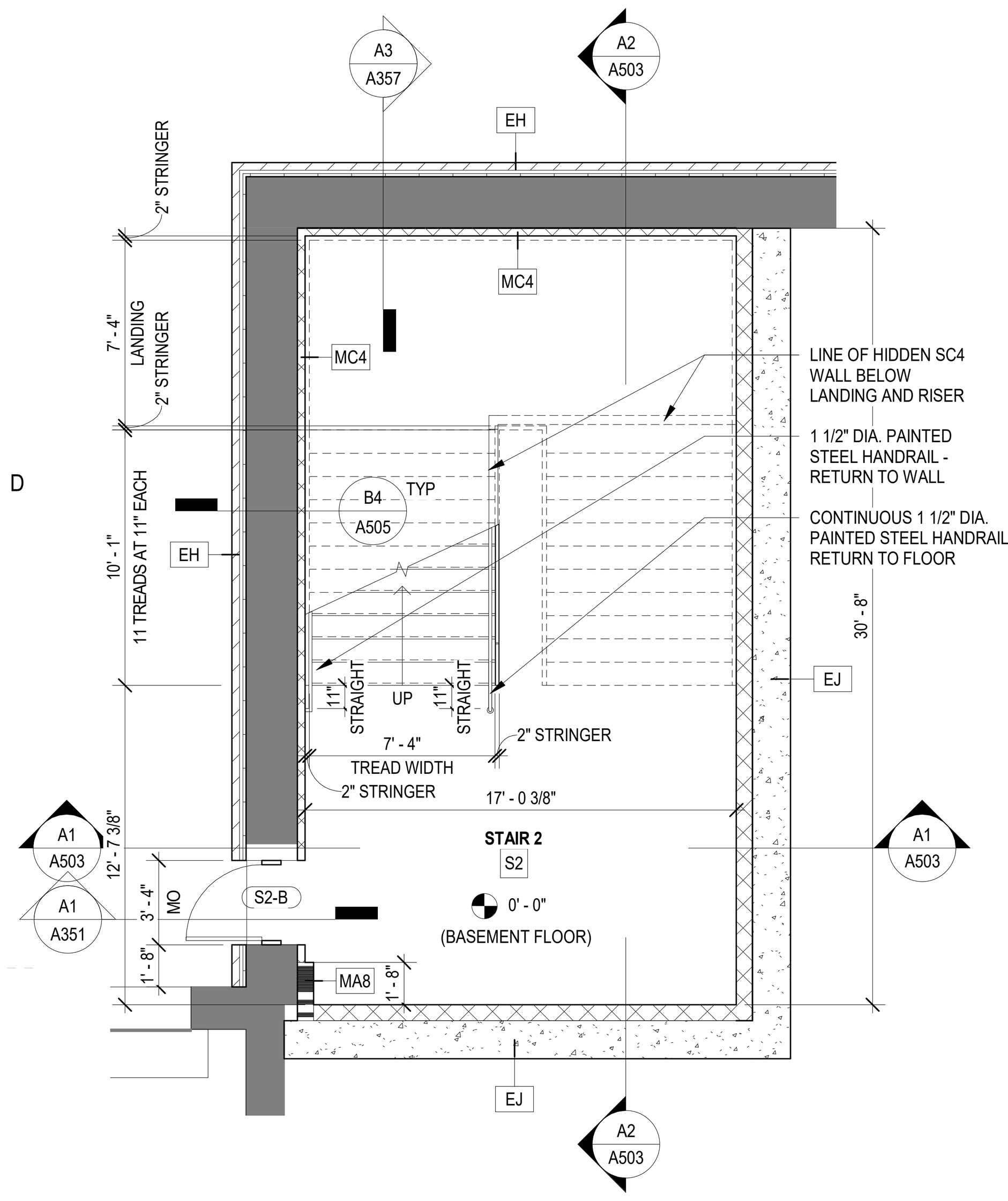
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

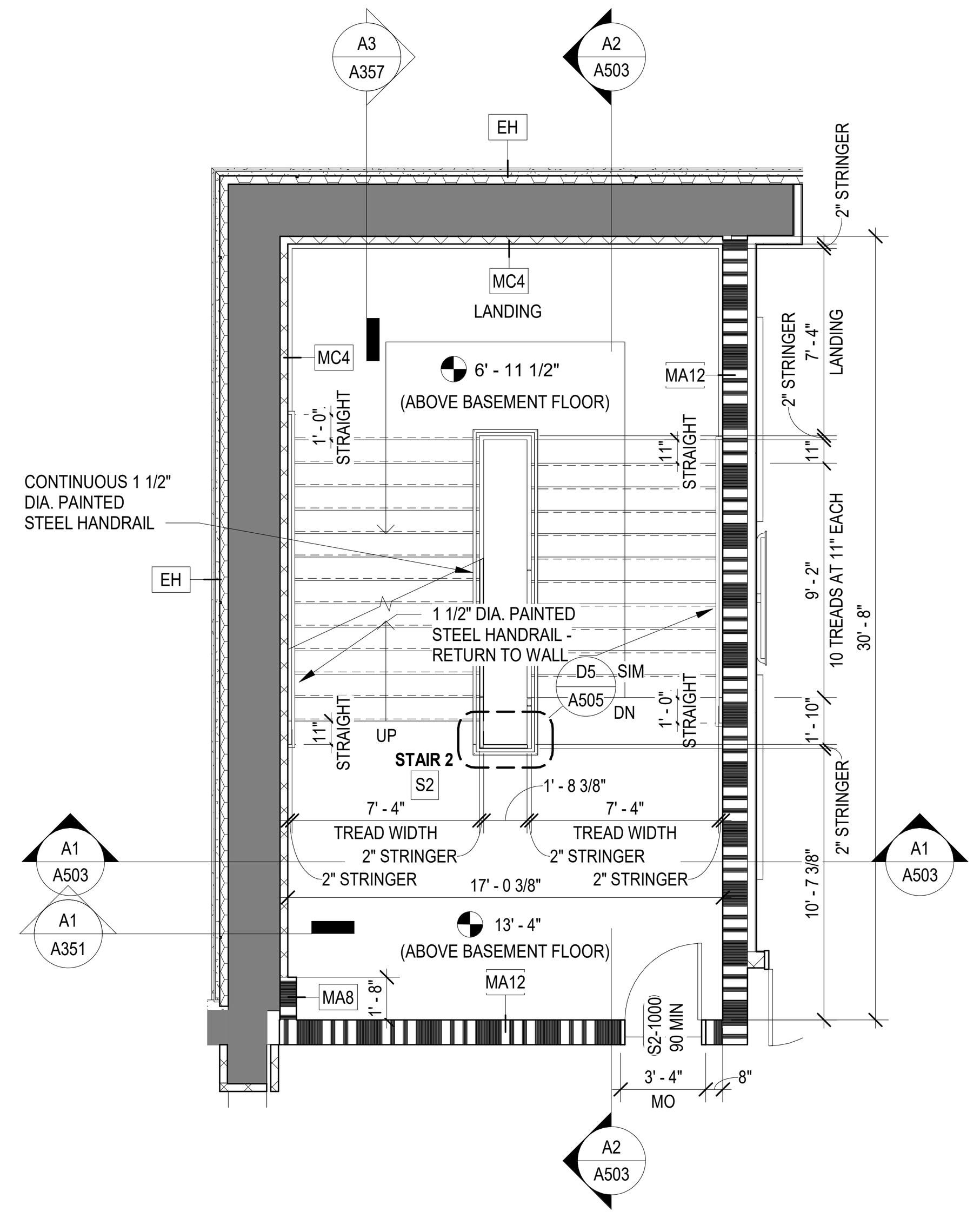
SHEET TITLE:
STAIR DETAILS

SHEET NO. A502

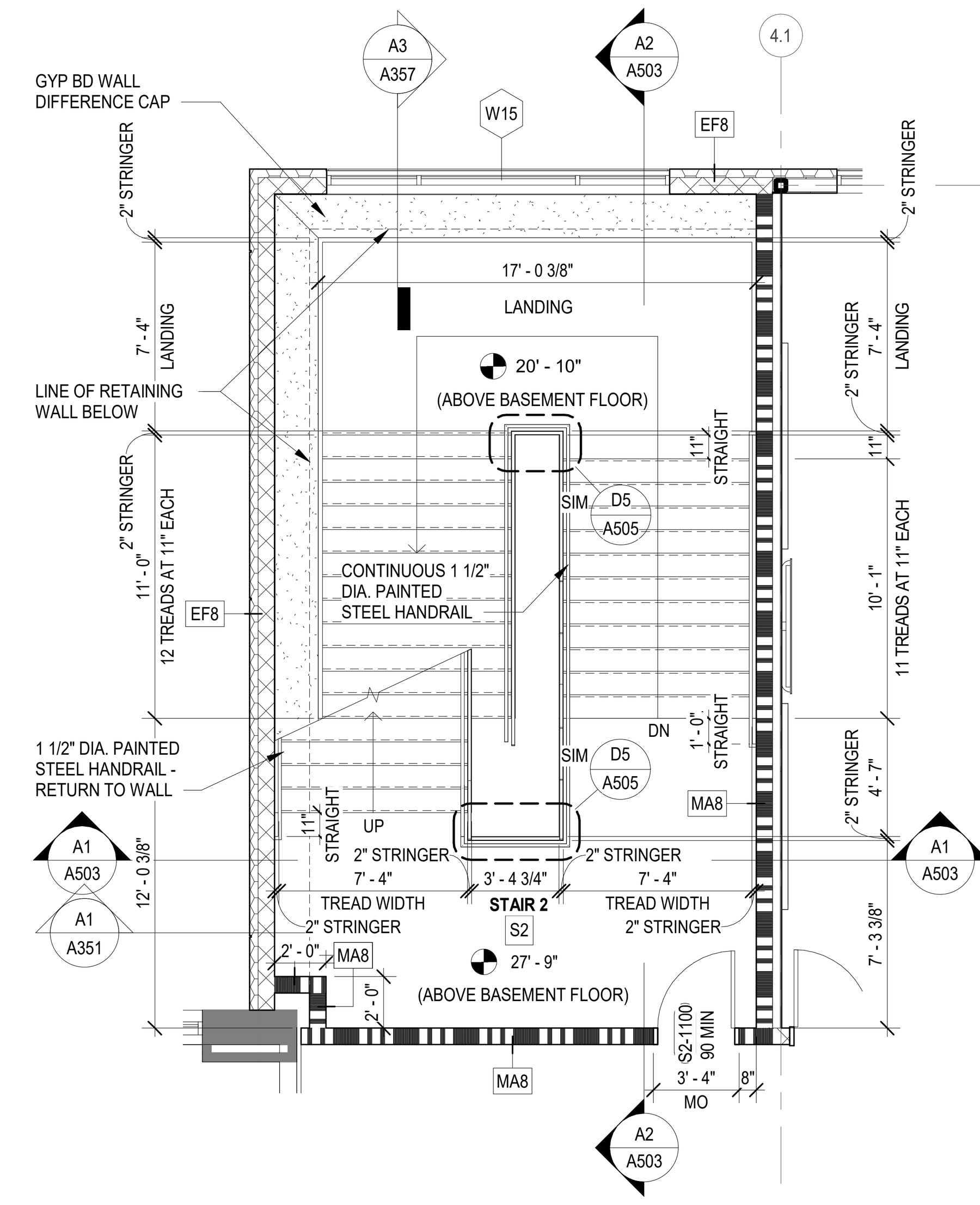
PROJ. NO. 020420.00



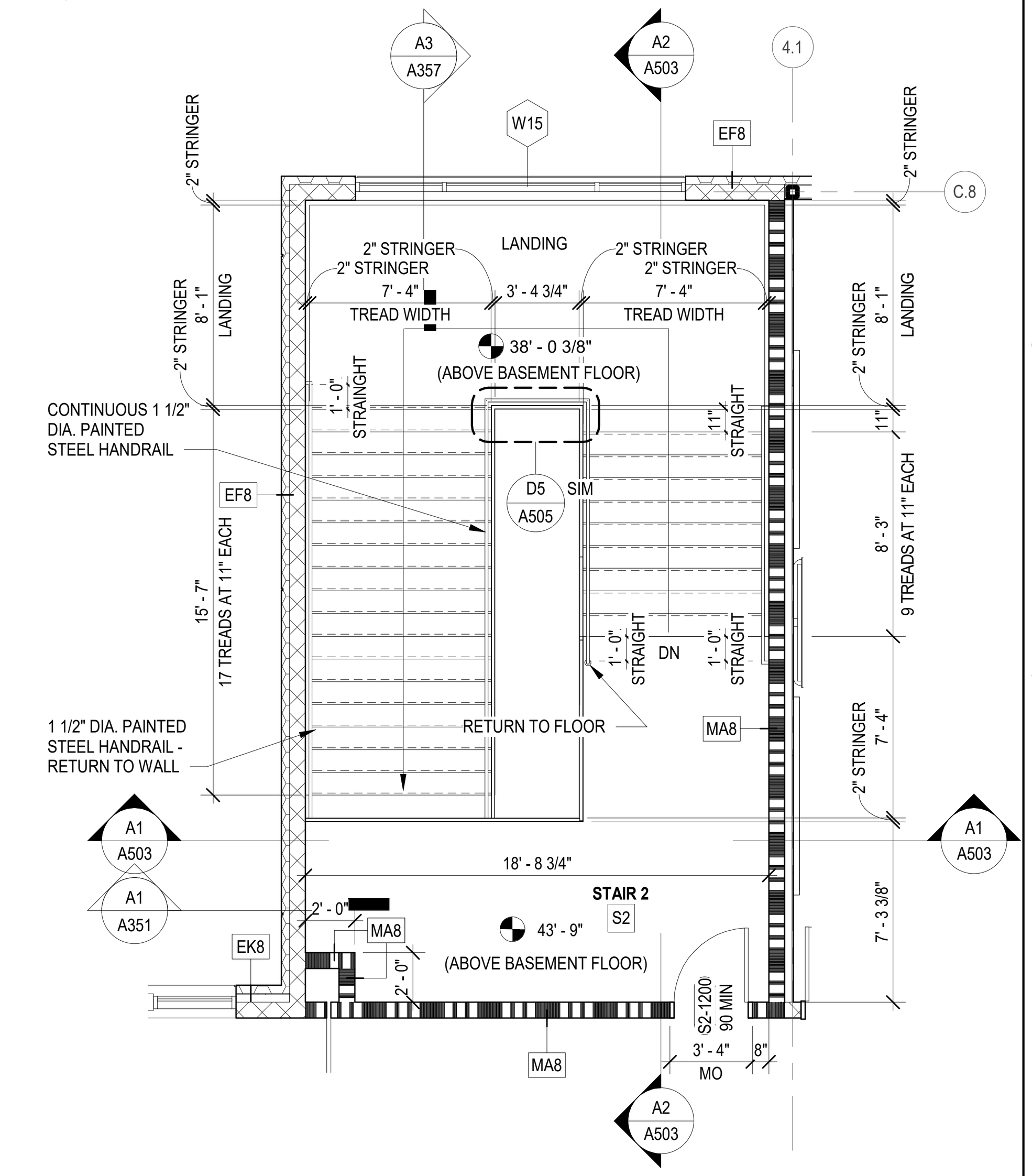
C1 A503 **STAIR 2 (AREA A) - PHASE 2 BASEMENT**
3/16" = 1'-0"



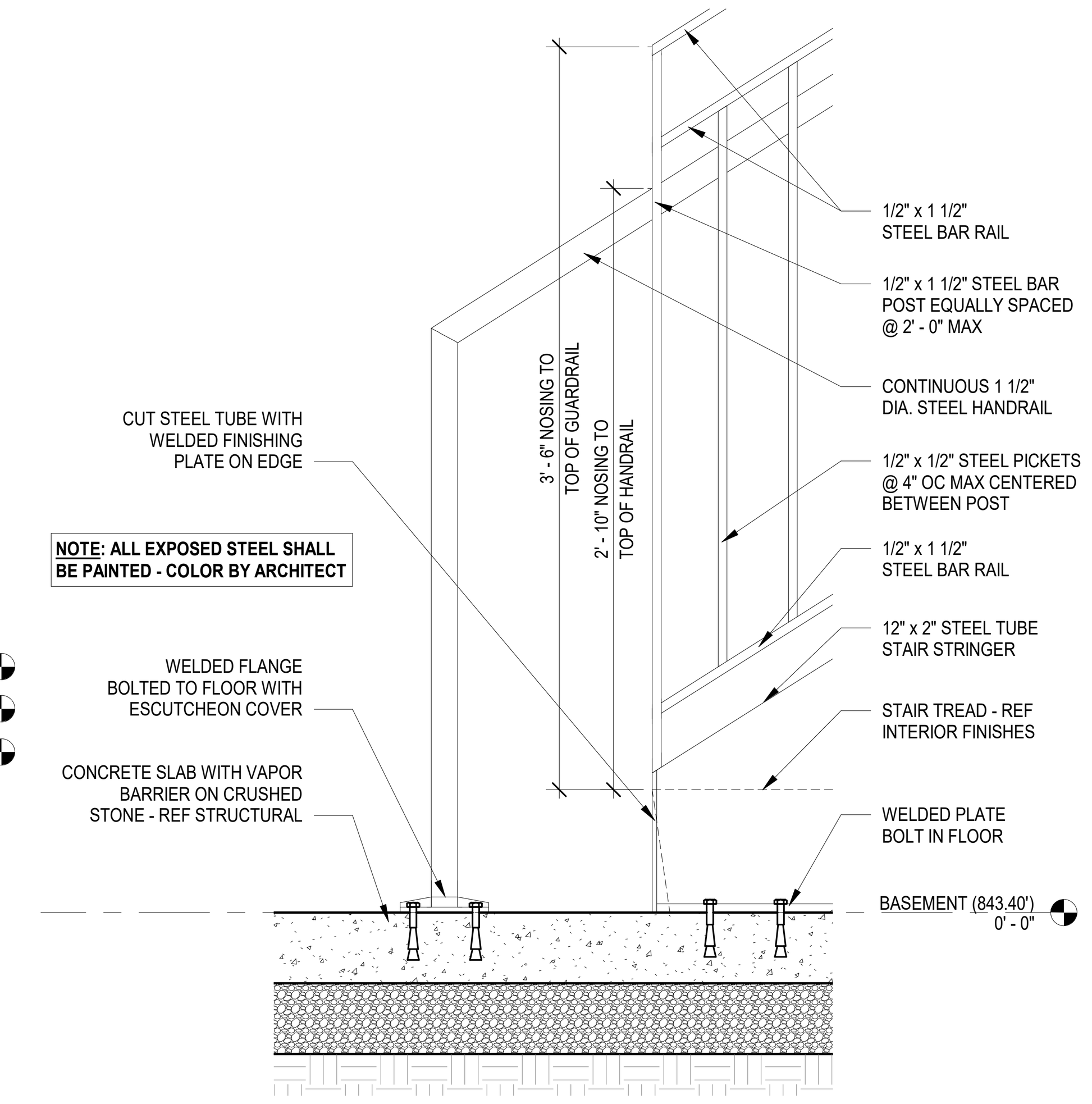
C2 A503 **STAIR 2 (AREA A) - PHASE 2 1000 LEVEL**
3/16" = 1'-0"



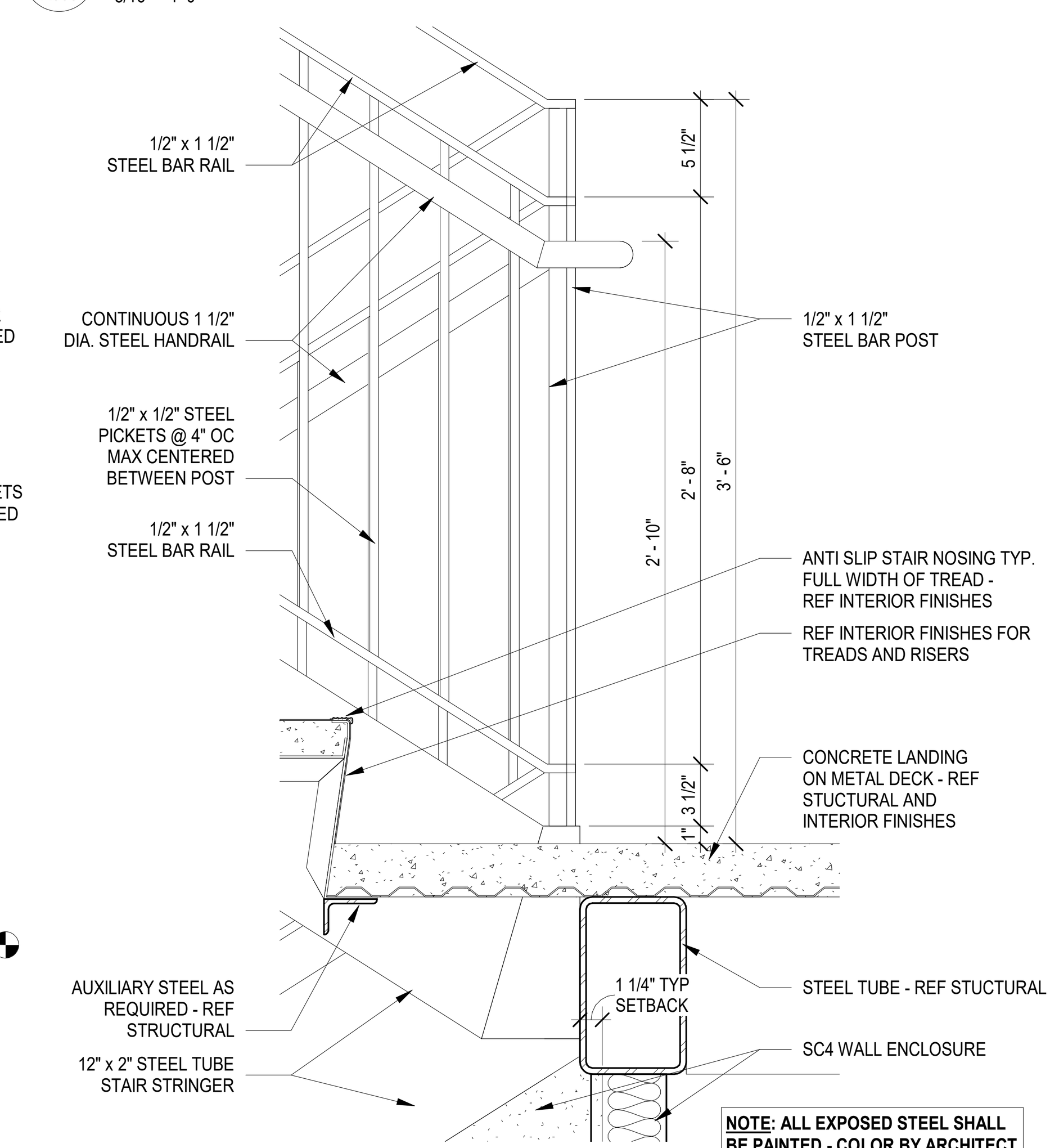
C3 A503 **STAIR 2 (AREA A) - PHASE 2 1100 LEVEL**
3/16" = 1'-0"



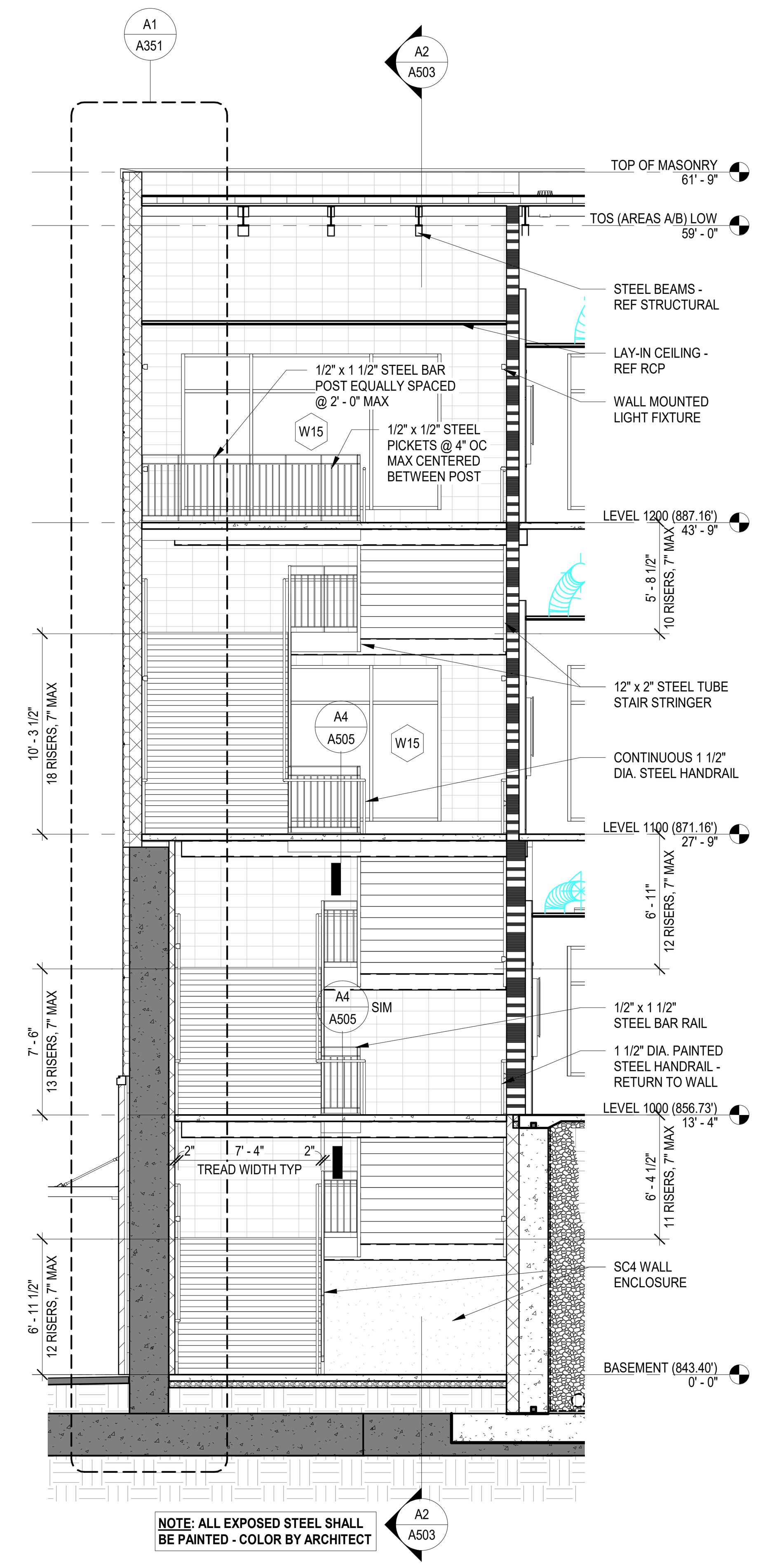
C4 A503 **STAIR 2 (AREA A) - PHASE 2 1200 LEVEL**
3/16" = 1'-0"



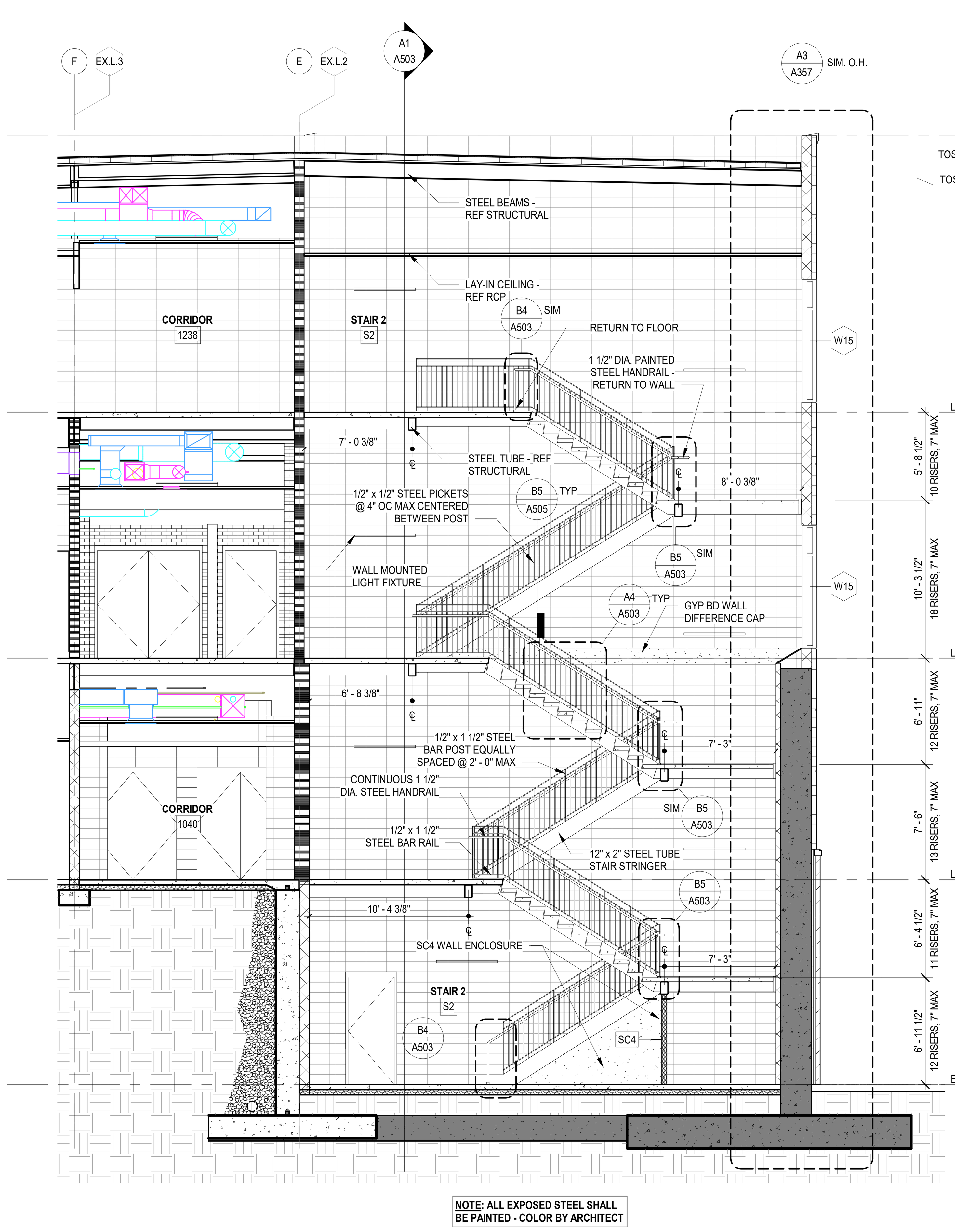
B4 A503 **BOTTOM OF STAIR DETAIL**
1 1/2" = 1'-0"



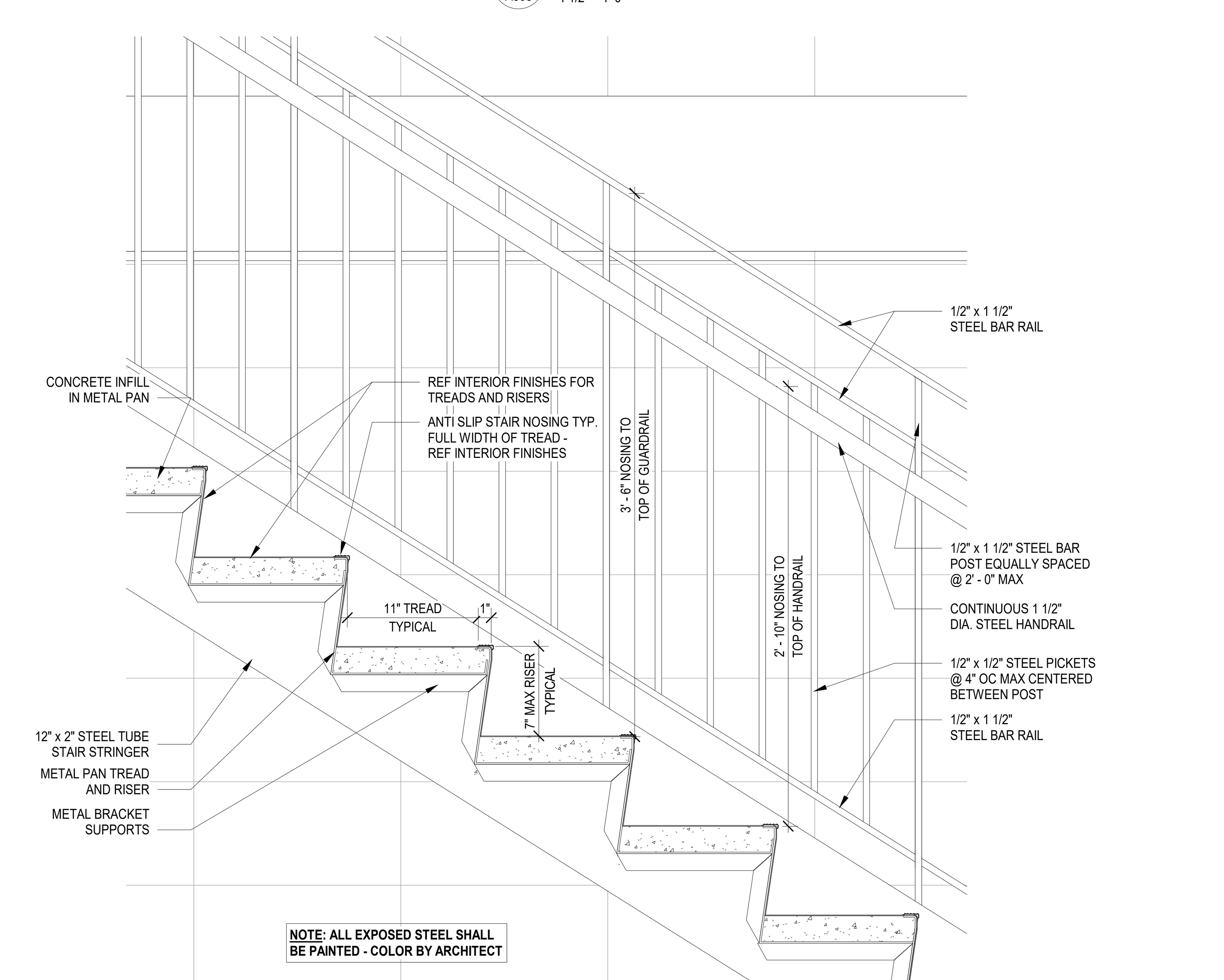
B5 A503 **STAIR LANDING DETAIL**
1 1/2" = 1'-0"



A1 A503 **STAIR 2 (AREA A) - SECTION 1**
3/16" = 1'-0"



A2 A503 **STAIR 2 (AREA A) - SECTION 2**
3/16" = 1'-0"



A4 A503 **TYPICAL STAIR TREAD AND RISER**
1 1/2" = 1'-0"

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
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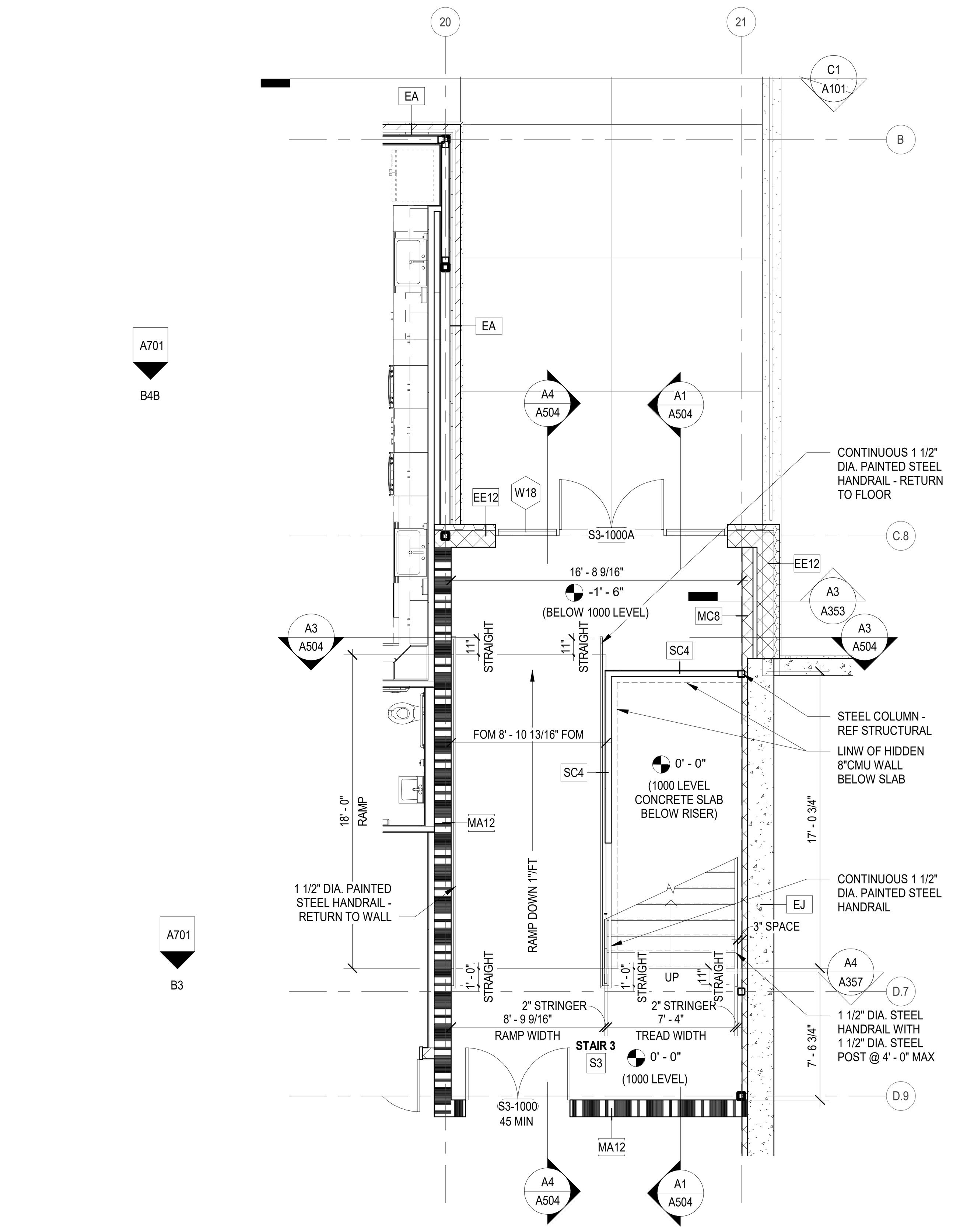
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM, MDW

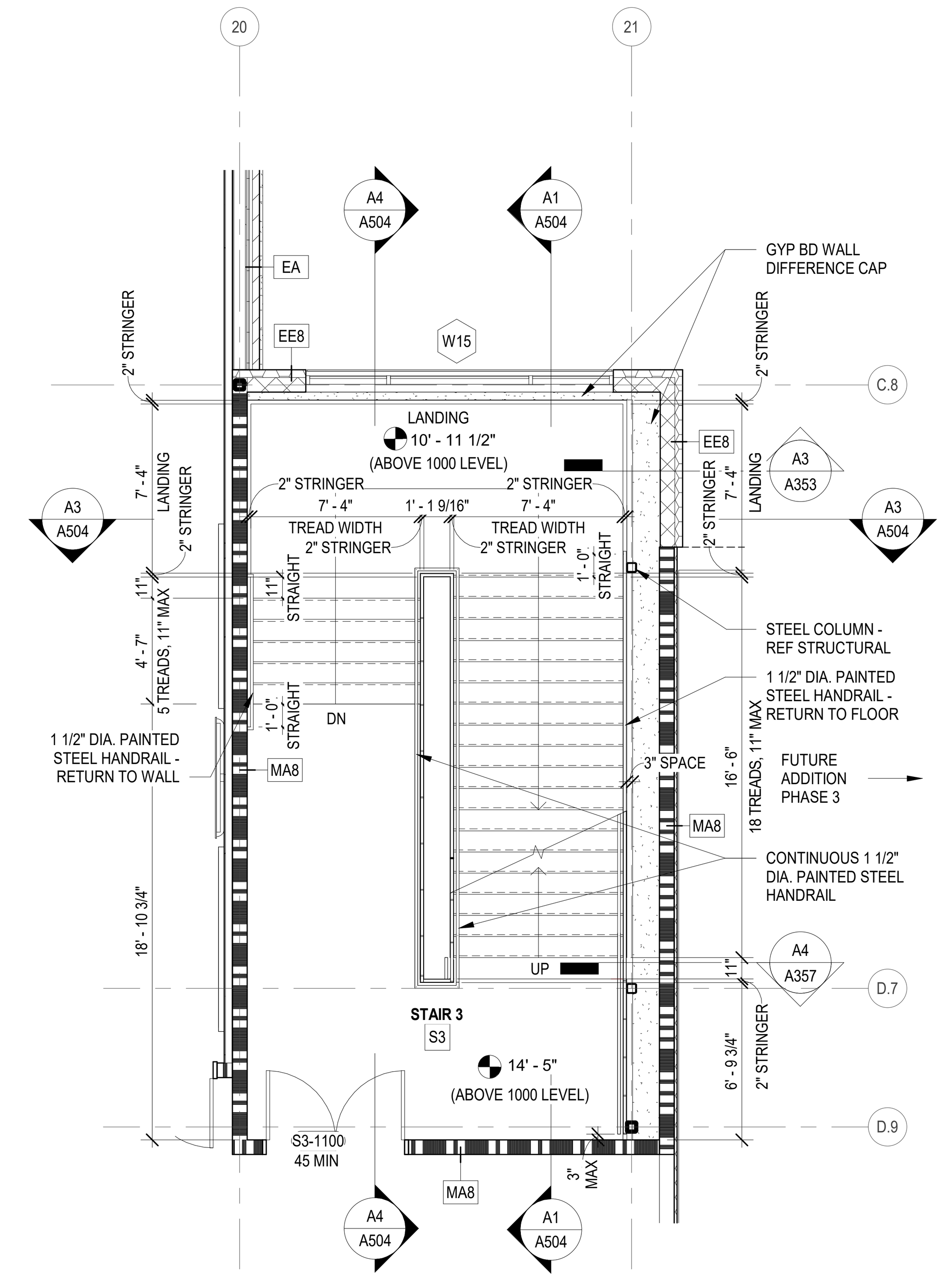
SHEET TITLE:
ENLARGED STAIR 2 PLANS & SECTIONS

SHEET NO. PROJ. NO. 020420.00

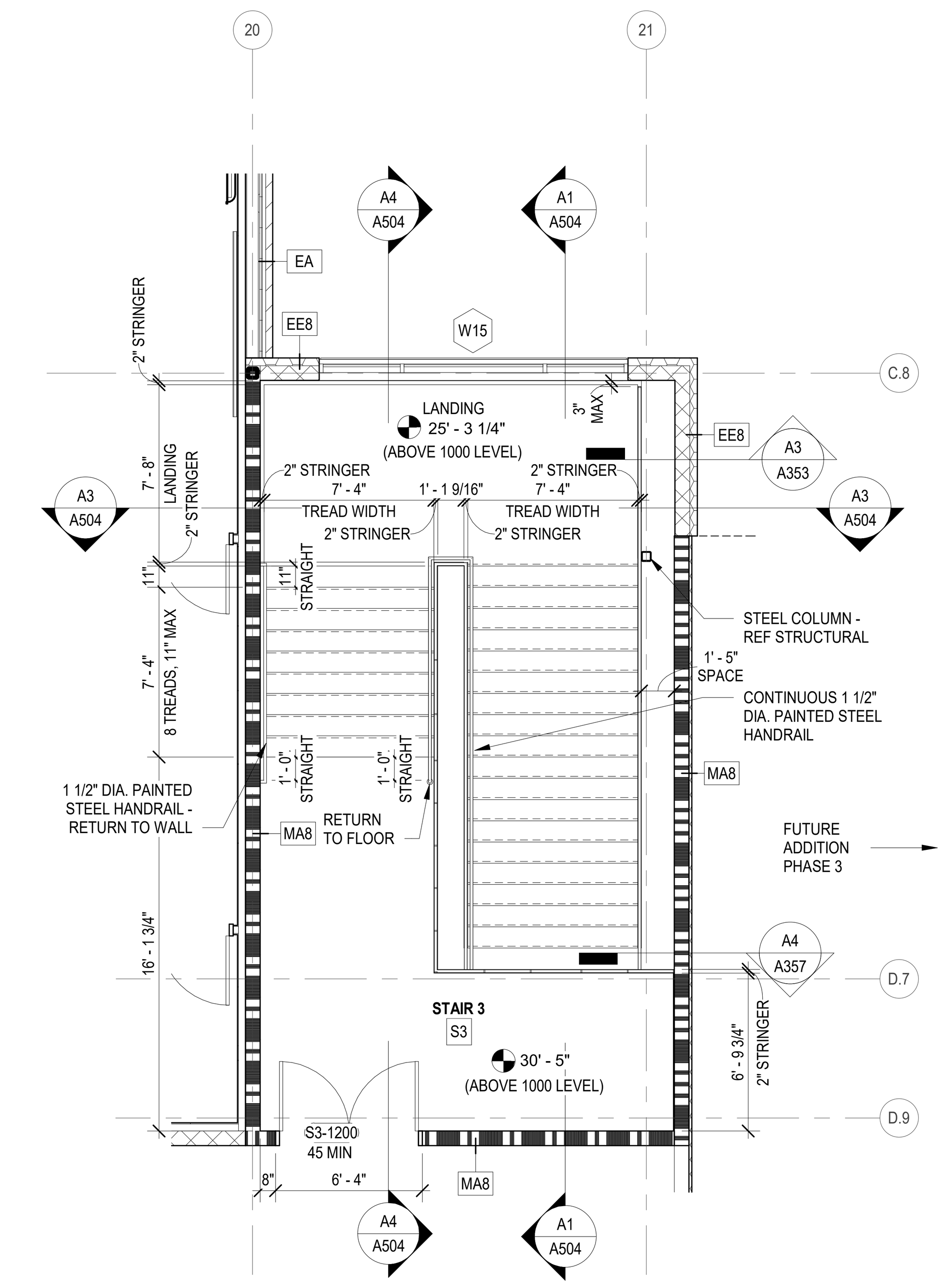
A503



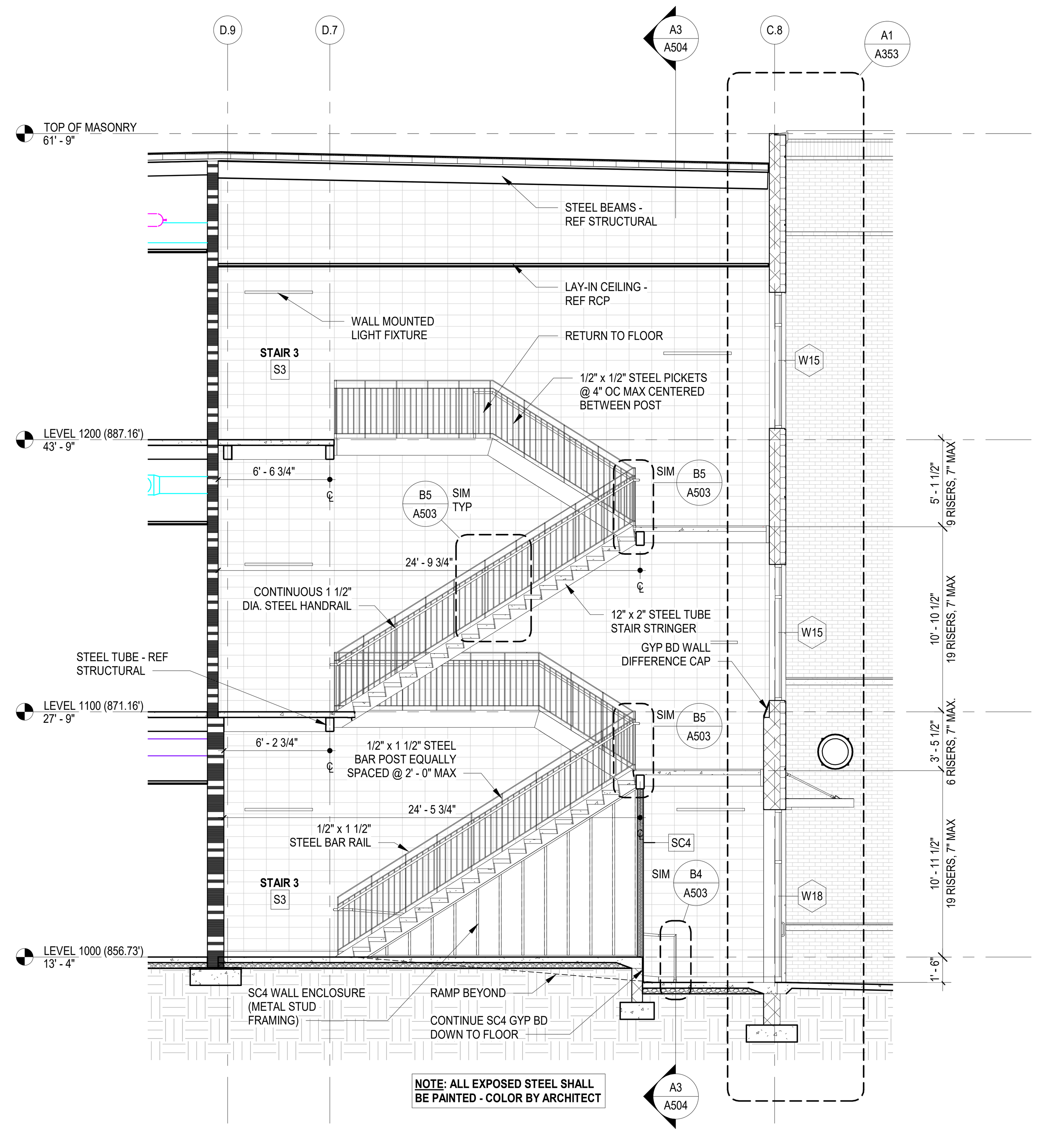
C1 A504 **STAIR 3 (AREA B) - PHASE 2 1000 LEVEL**
3/16" = 1'-0"



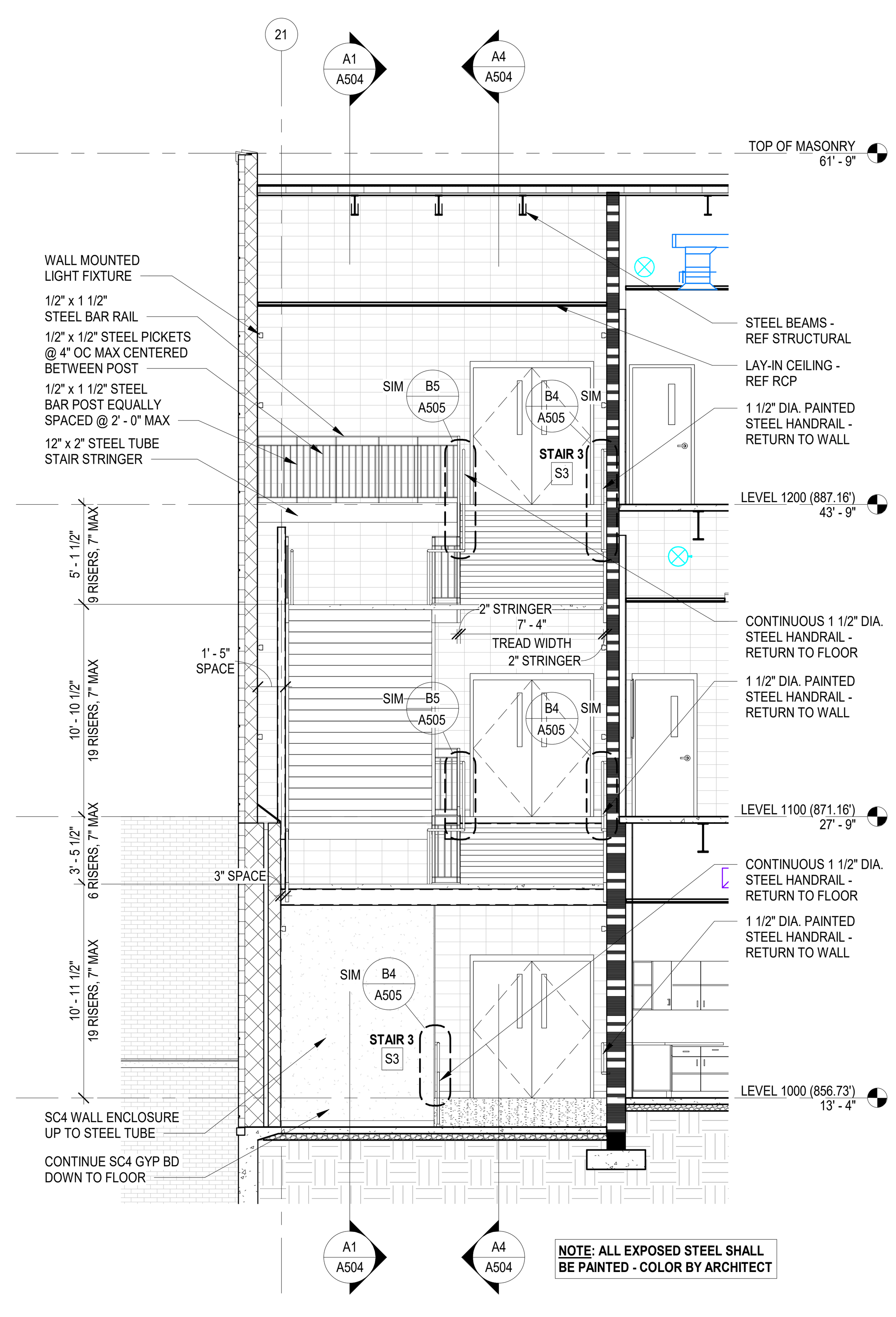
C3 A504 **STAIR 3 (AREA B) - PHASE 2 1100 LEVEL**
3/16" = 1'-0"



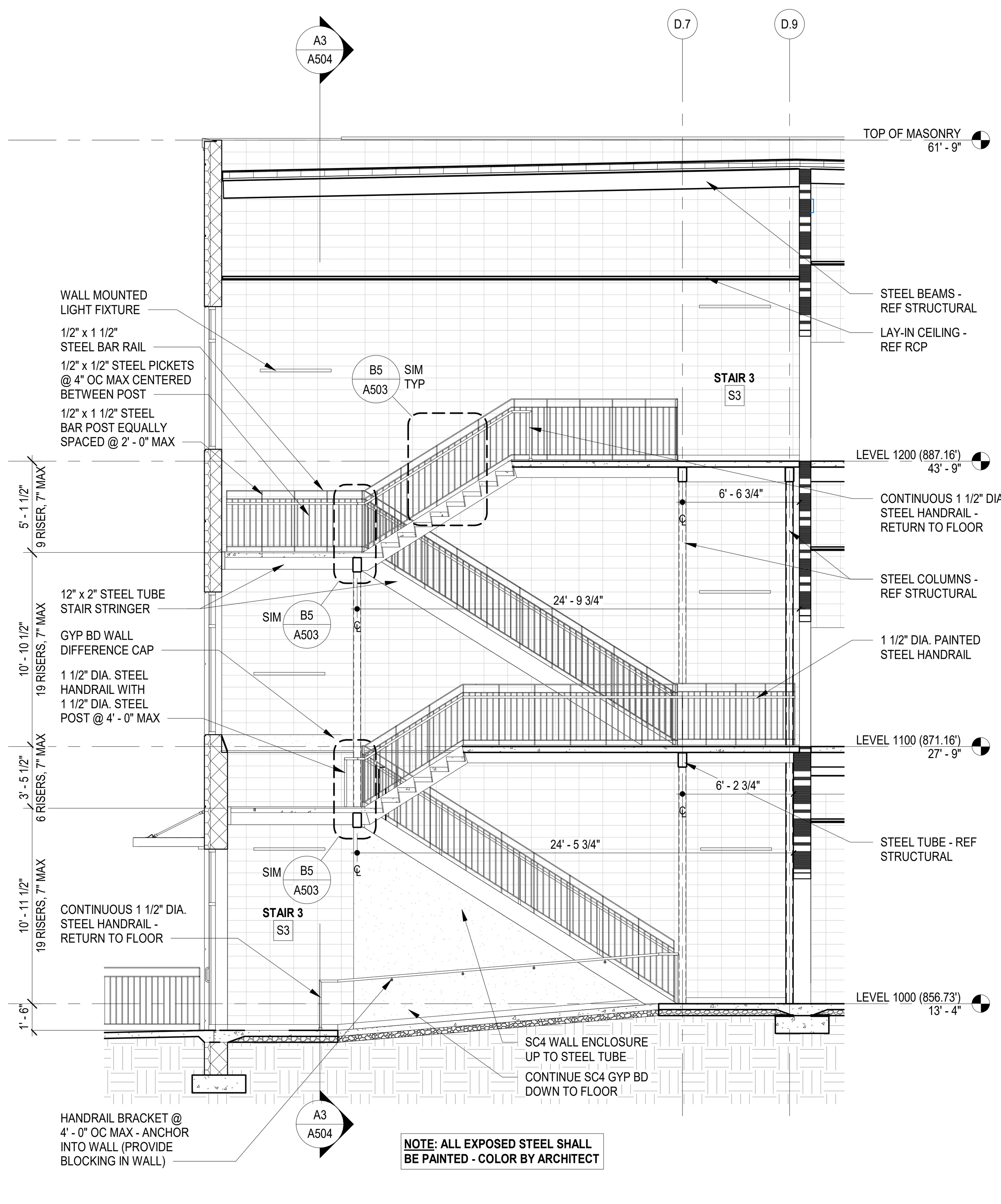
C4 A504 **STAIR 3 (AREA B) - PHASE 2 1200 LEVEL**
3/16" = 1'-0"



A1 A504 **STAIR 3 (AREA B) - SECTION 1**
3/16" = 1'-0"



A3 A504 **STAIR 3 (AREA B) - SECTION 2**
3/16" = 1'-0"



A4 A504 **STAIR 3 (AREA B) - SECTION 3**
3/16" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
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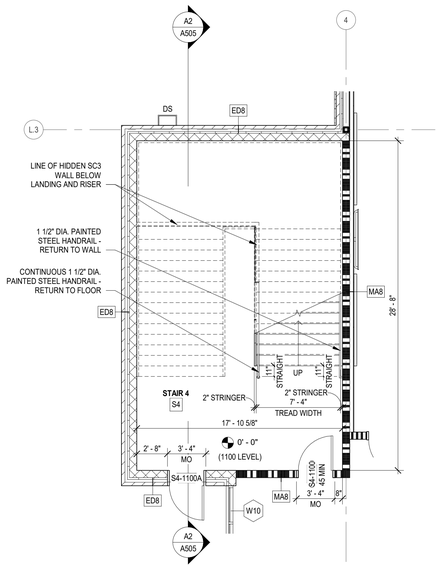
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM, MDW

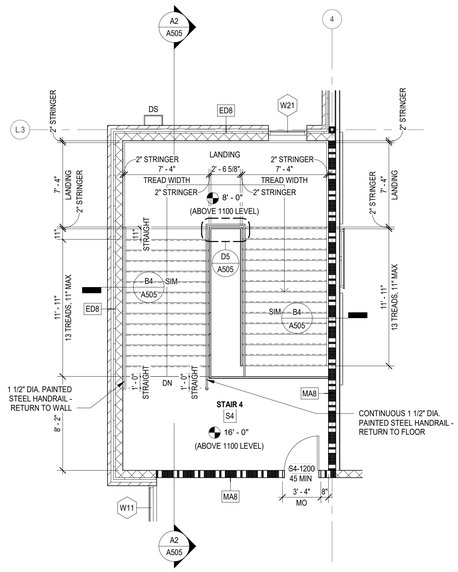
SHEET TITLE:
ENLARGED STAIR 3 PLANS & SECTIONS

SHEET NO. PROJ. NO. 020420.00

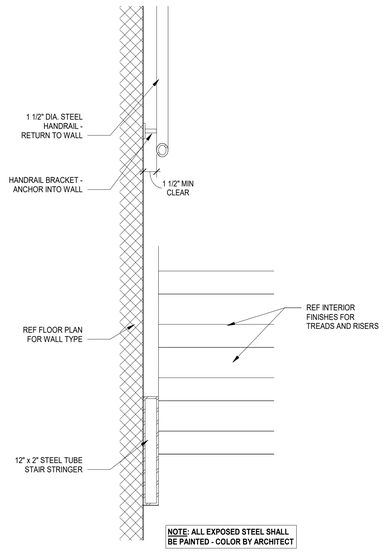
A504



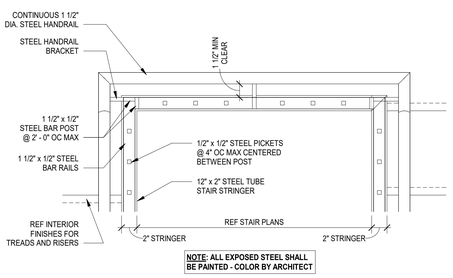
C2 A505 **STAIR 4 (AREA C) - PHASE 2 1100 LEVEL**
3/16" = 1'-0"



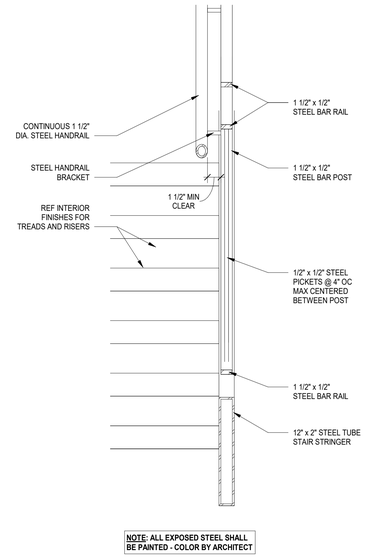
C3 A505 **STAIR 4 (AREA C) - PHASE 2 1200 LEVEL**
3/16" = 1'-0"



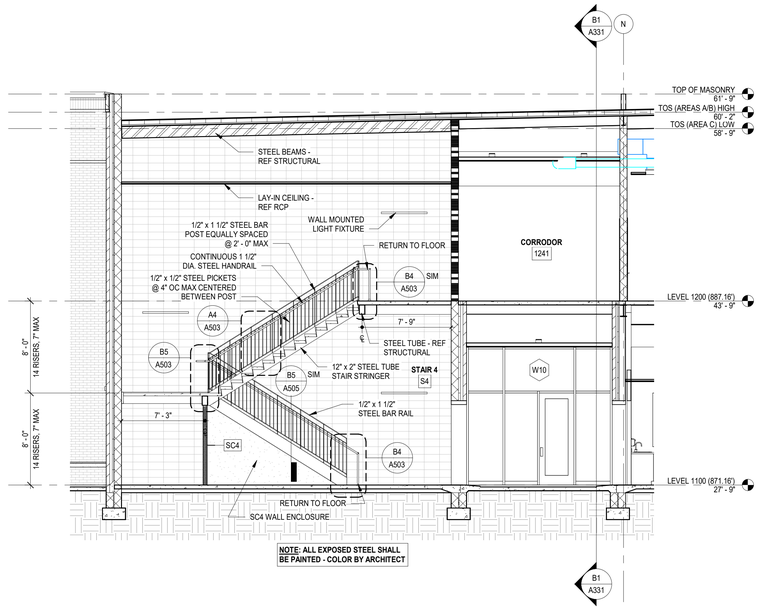
B4 A505 **STAIR HANDRAIL AT WALL DETAIL**
1 1/2" = 1'-0"



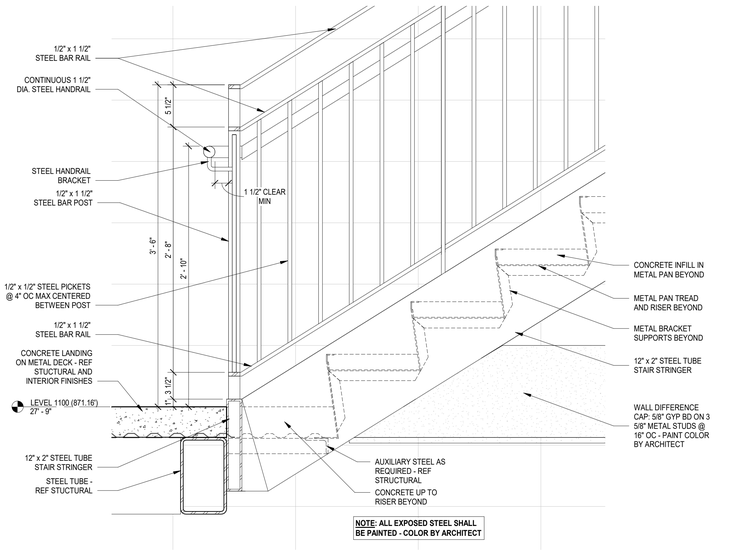
D5 A505 **CONTINUOUS STAIR RAILING DETAIL**
1 1/2" = 1'-0"



B5 A505 **STAIR GUARDRAIL/HANDRAIL DETAIL**
1 1/2" = 1'-0"



A2 A505 **STAIR 4 (AREA C) - SECTION 2**
3/16" = 1'-0"



A4 A505 **STAIR LANDING DETAIL**
1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

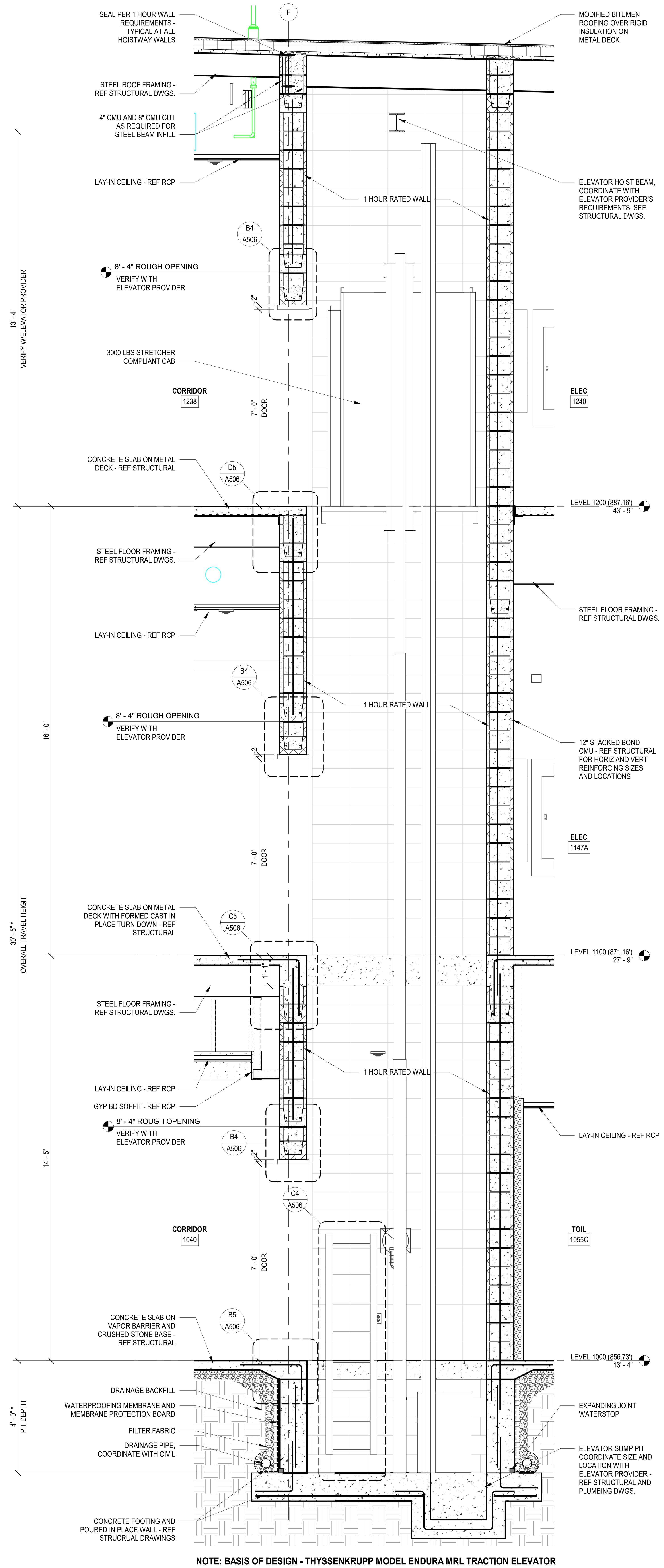
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM, MDW

SHEET TITLE:

ENLARGED STAIR 4 PLANS & SECTIONS

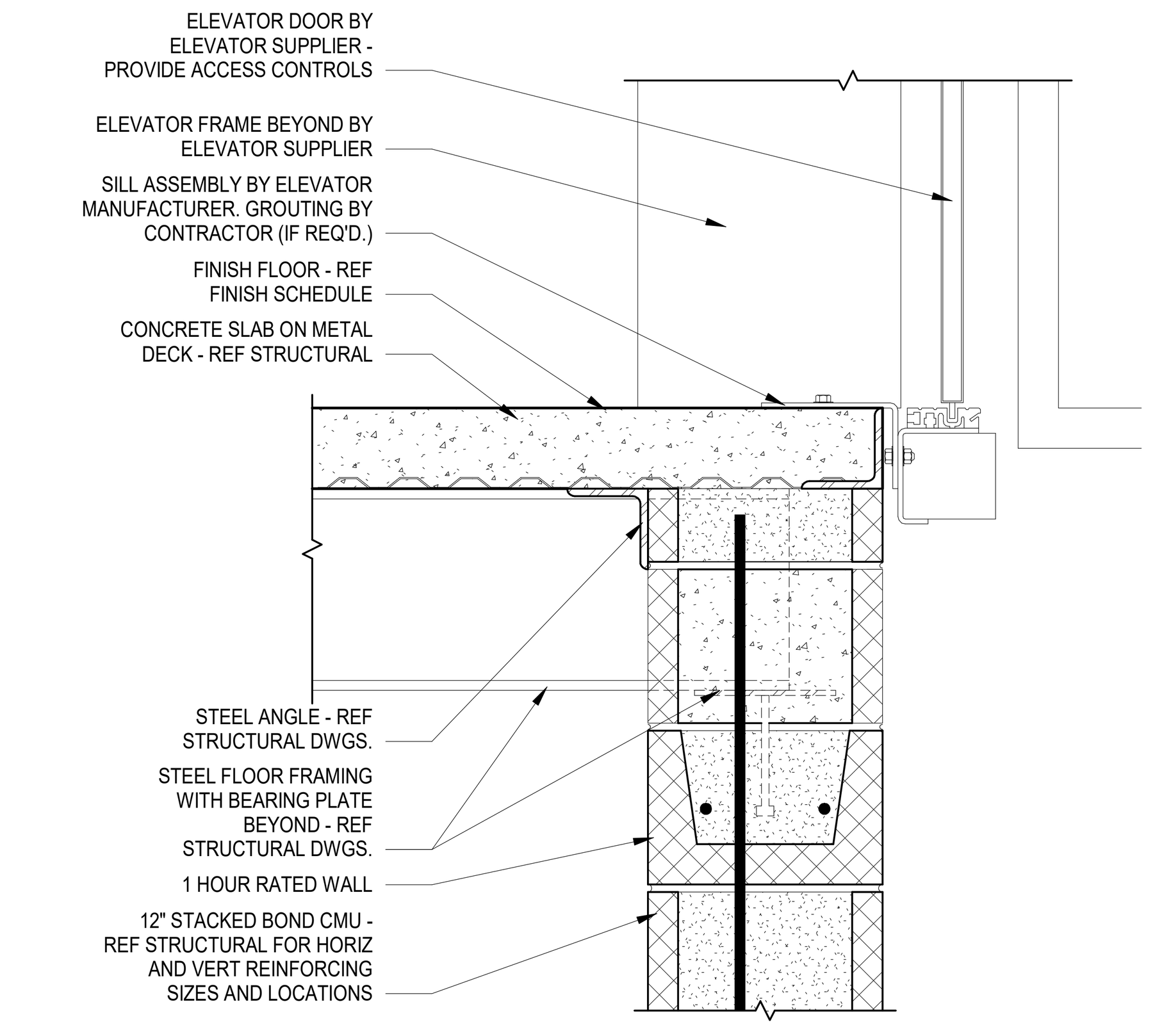
SHEET NO. A505

PROJ. NO. 020420.00

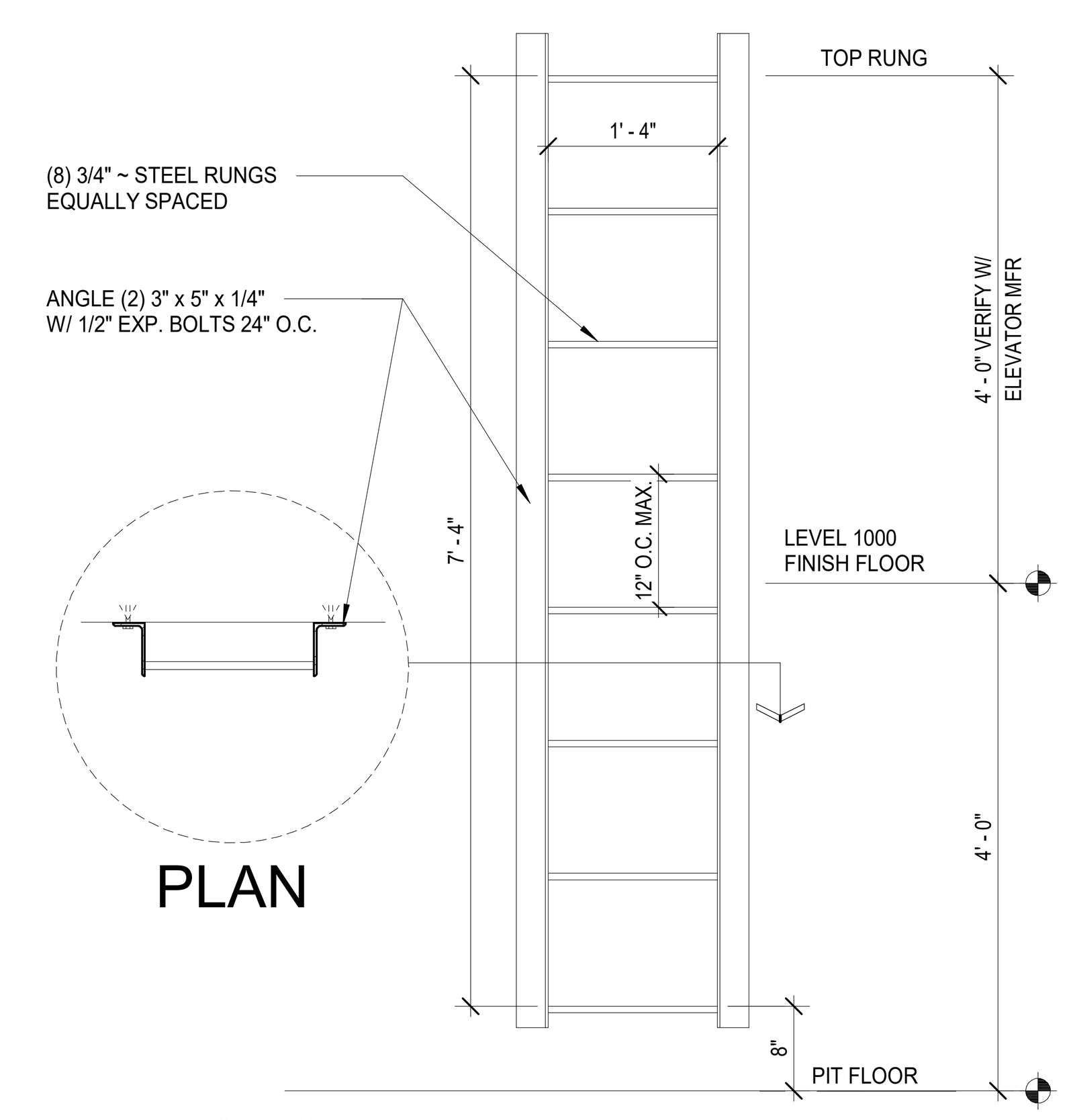


NOTE: BASIS OF DESIGN - THYSSENKRUPP MODEL ENDURA MRL TRACTION ELEVATOR
* GC TO VERIFY ALL DIMENSIONS WITH ELEVATOR PROVIDER

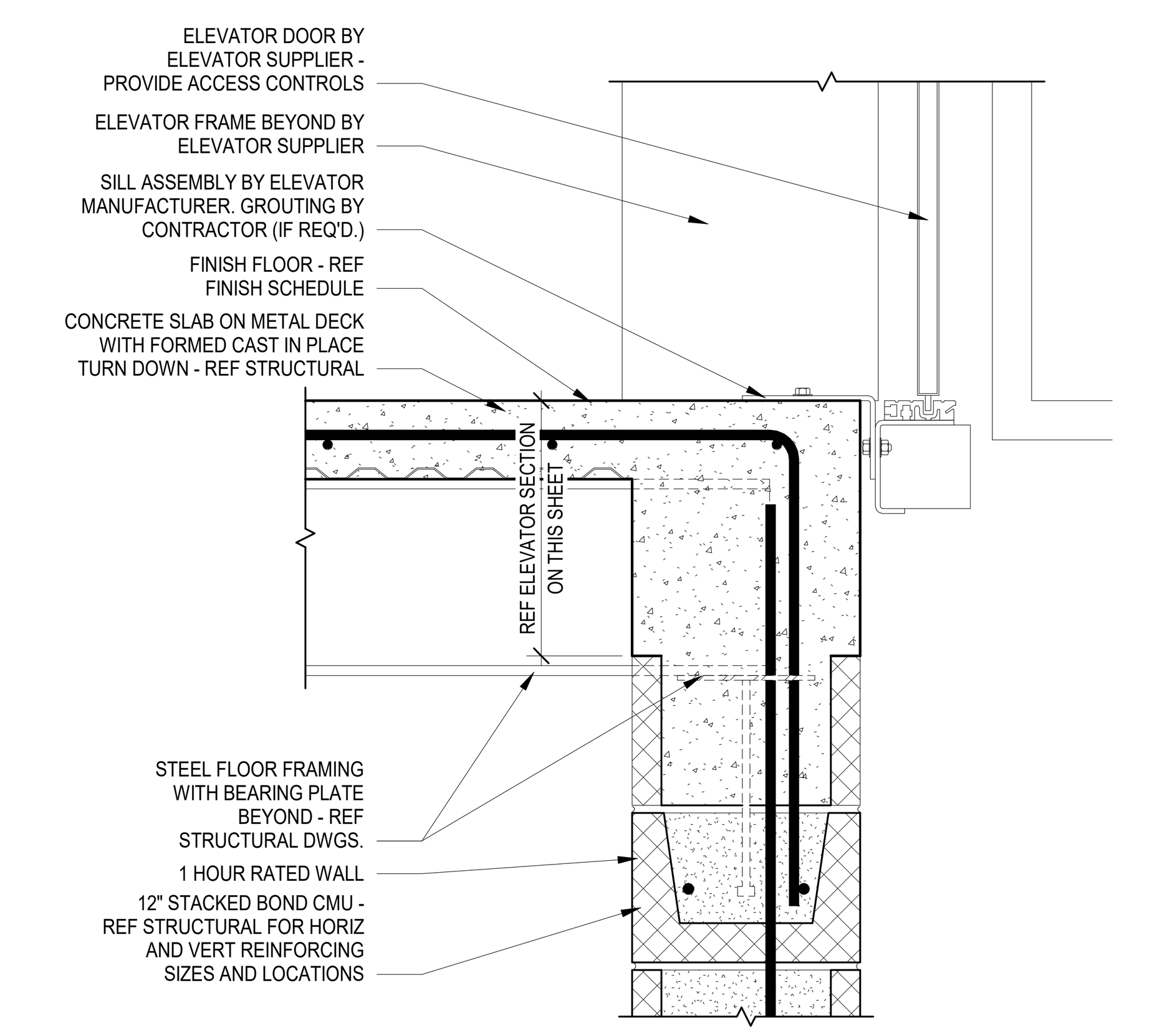
A1 A506 **ELEVATOR SECTION**
1/2" = 1'-0"



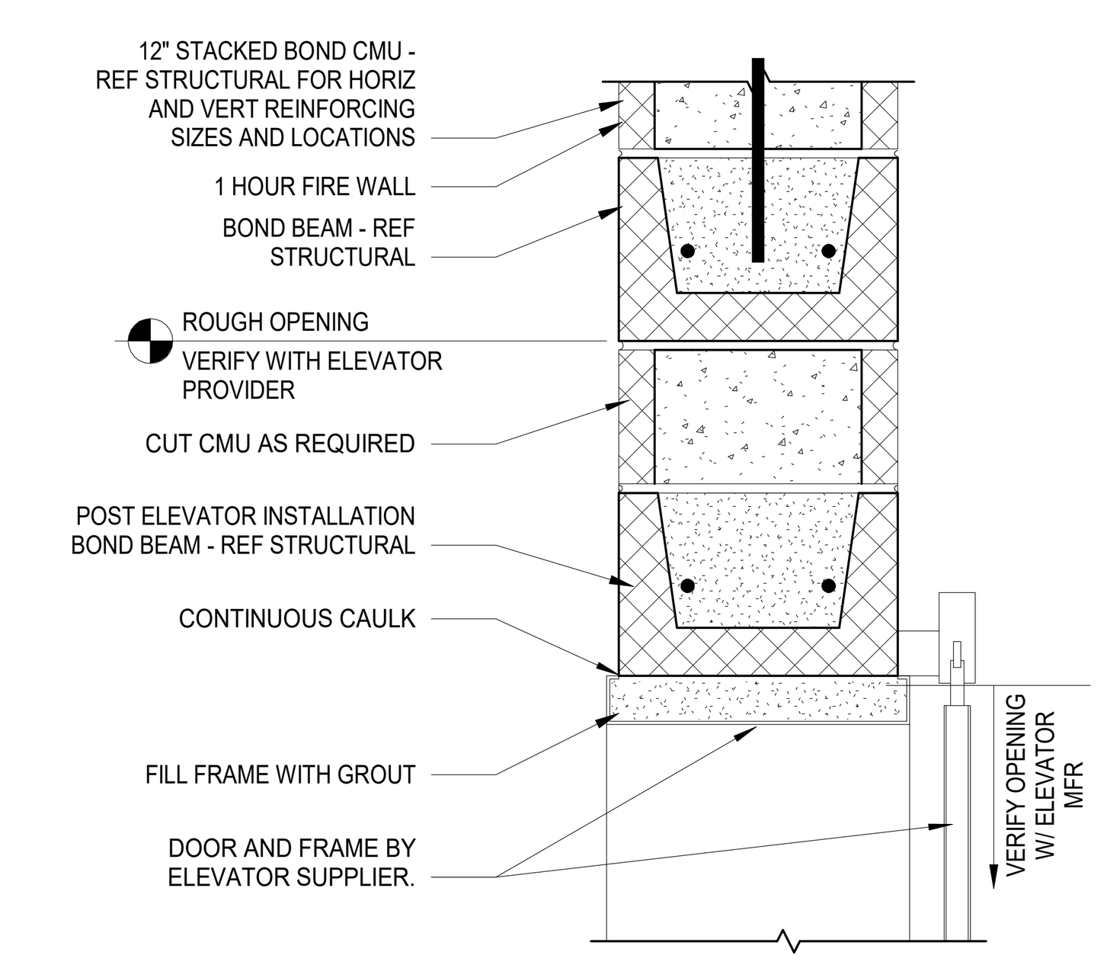
D5 A506 **ELEVAT0R DOOR SILL DETAIL - ELEVATED SLAB**
1 1/2" = 1'-0"



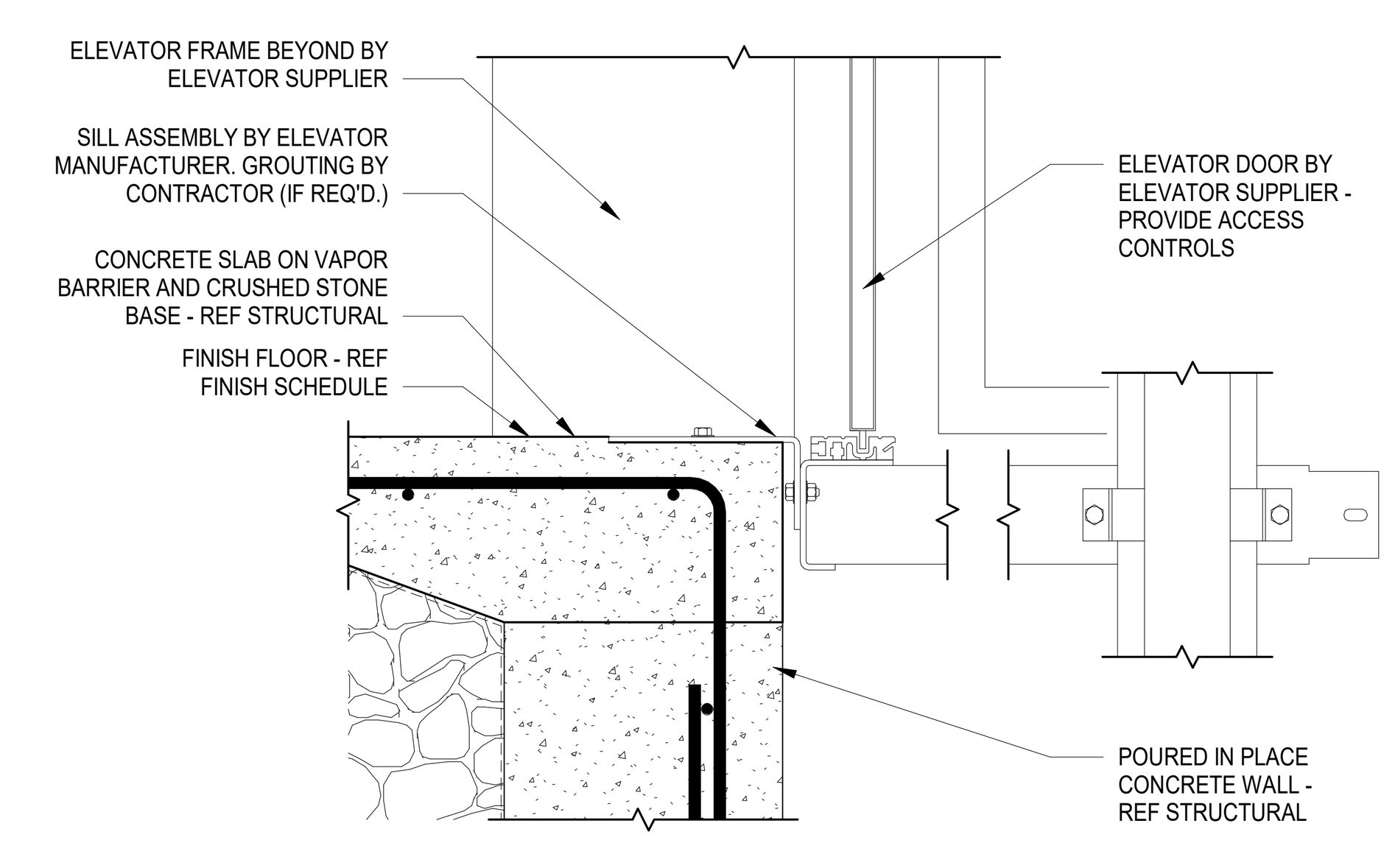
C4 A506 **ELEVATOR PIT LADDER**
3/4" = 1'-0"



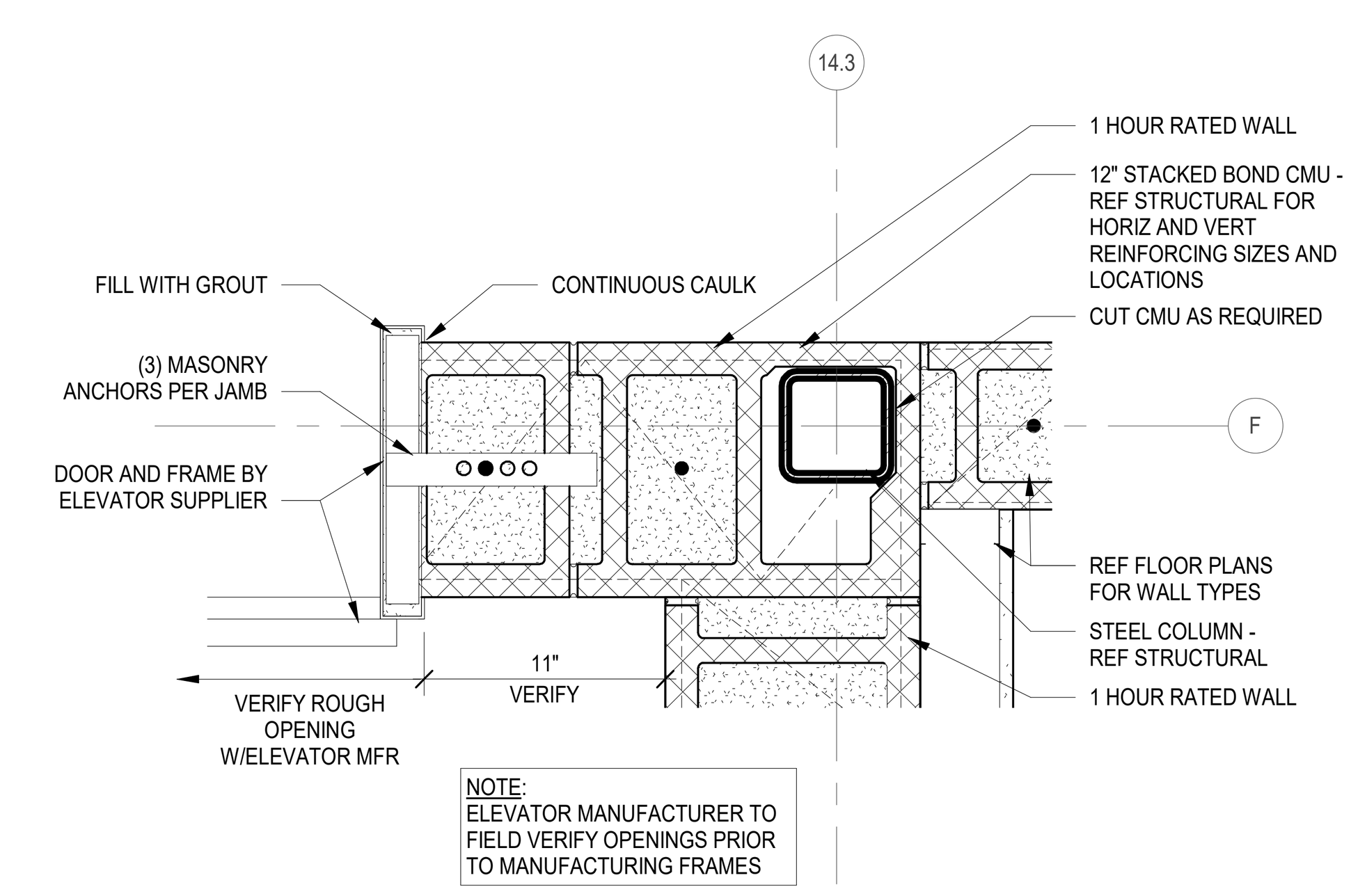
C5 A506 **ELEVATOR DOOR SILL DETAIL - ELEVATED TURNDOWN SLAB**
1 1/2" = 1'-0"



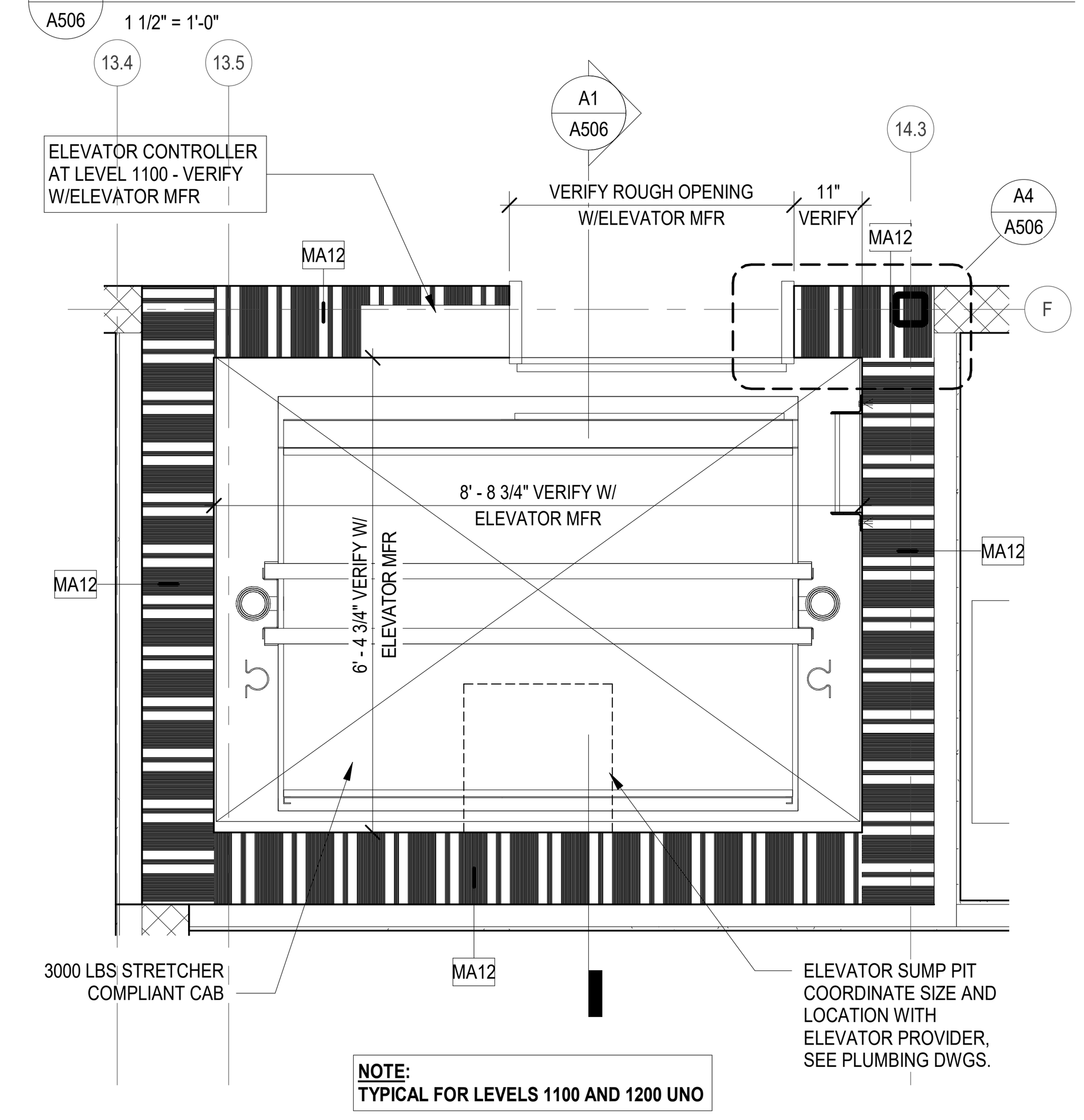
B4 A506 **ELEVATOR HEAD DETAIL**
1 1/2" = 1'-0"



B5 A506 **ELEVATOR DOOR SILL DETAIL - SLAB ON GRADE**
1 1/2" = 1'-0"



A4 A506 **ELEVATOR JAMB DETAIL**
1 1/2" = 1'-0"



A5 A506 **ELEVATOR PLAN 1000 LEVEL AREA B**
1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

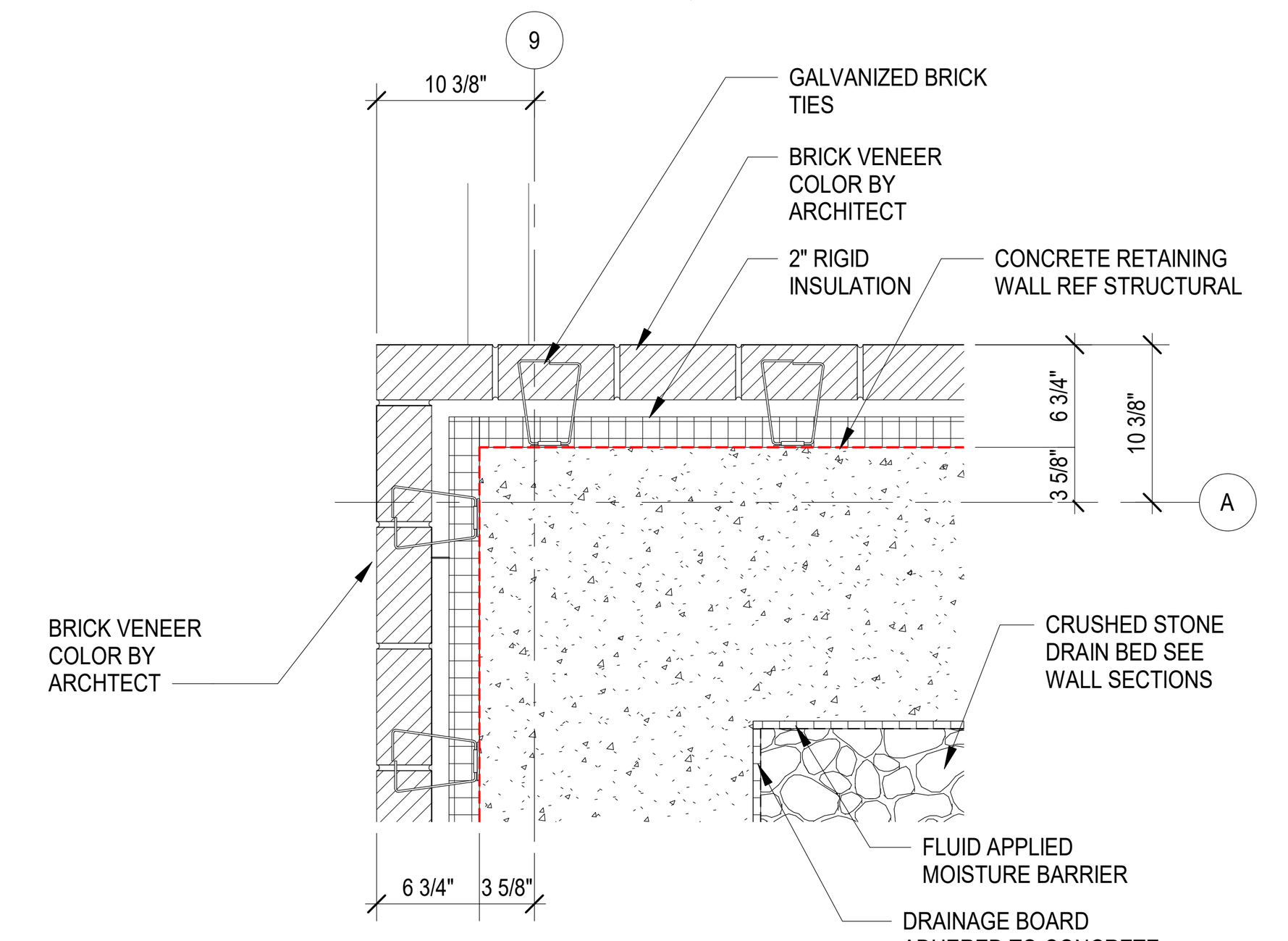
NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

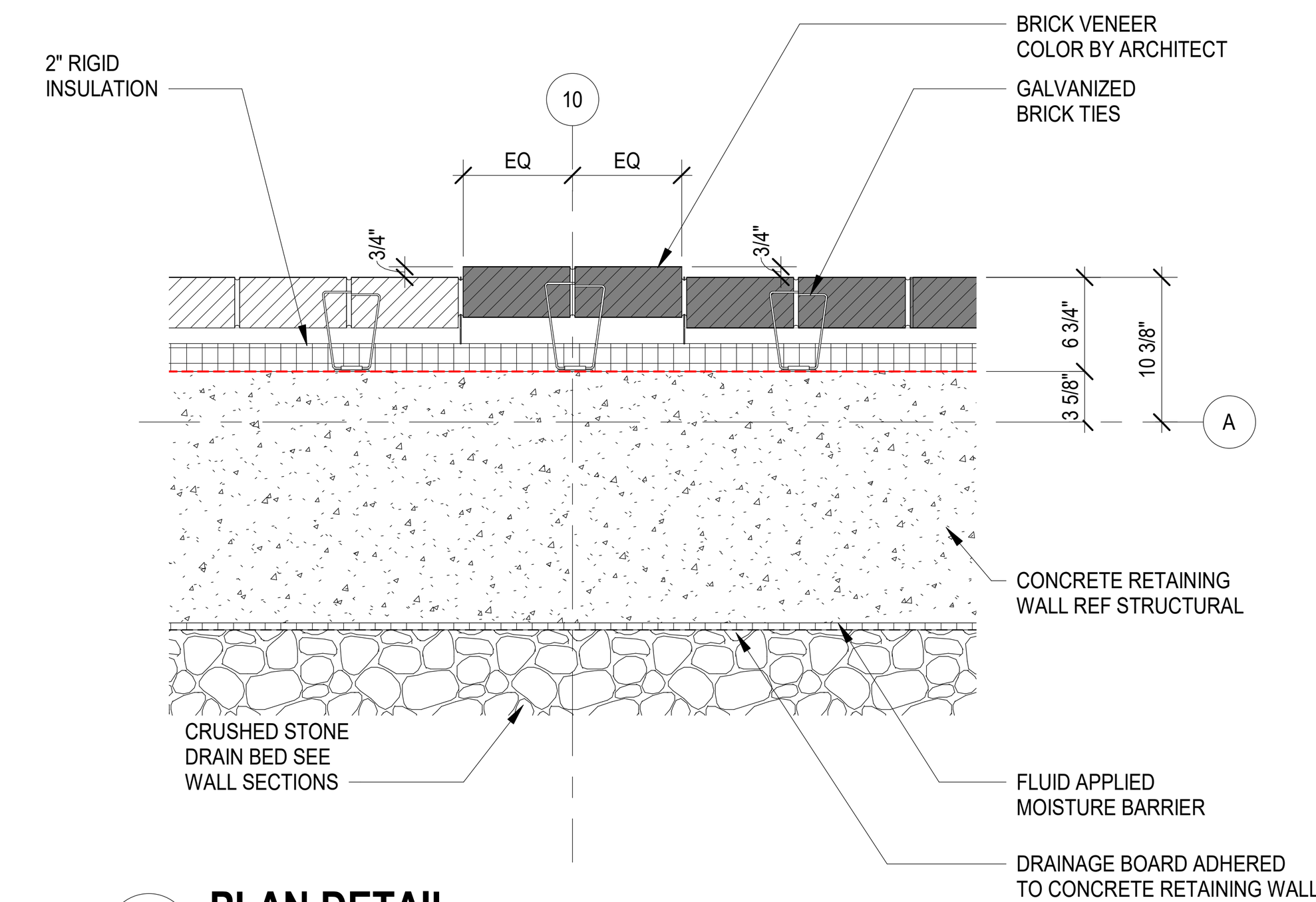
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: MDW

SHEET TITLE:
ENLARGED ELEVATOR PLAN, SECTION, AND DETAILS

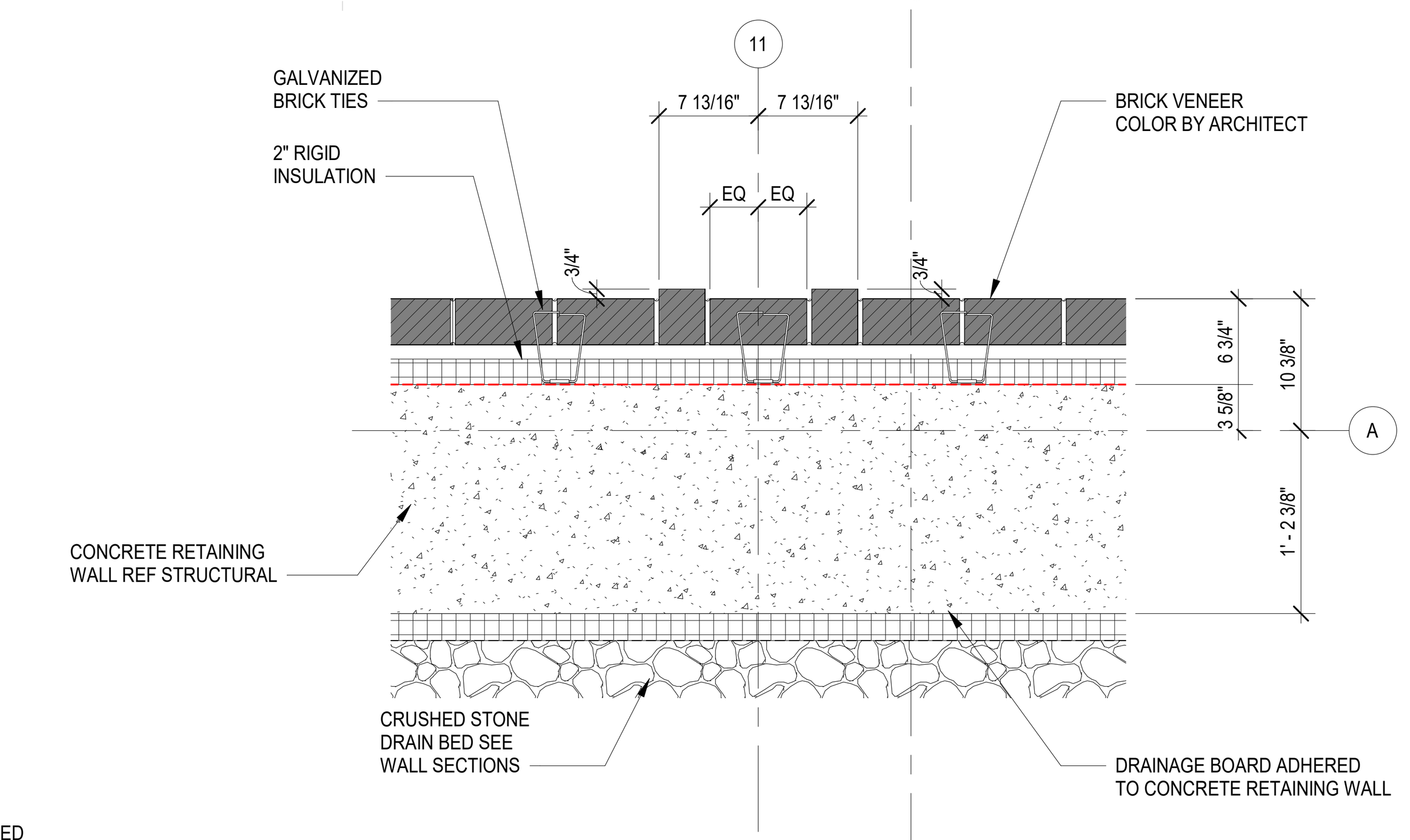
SHEET NO. A506
PROJ. NO. 020420.00



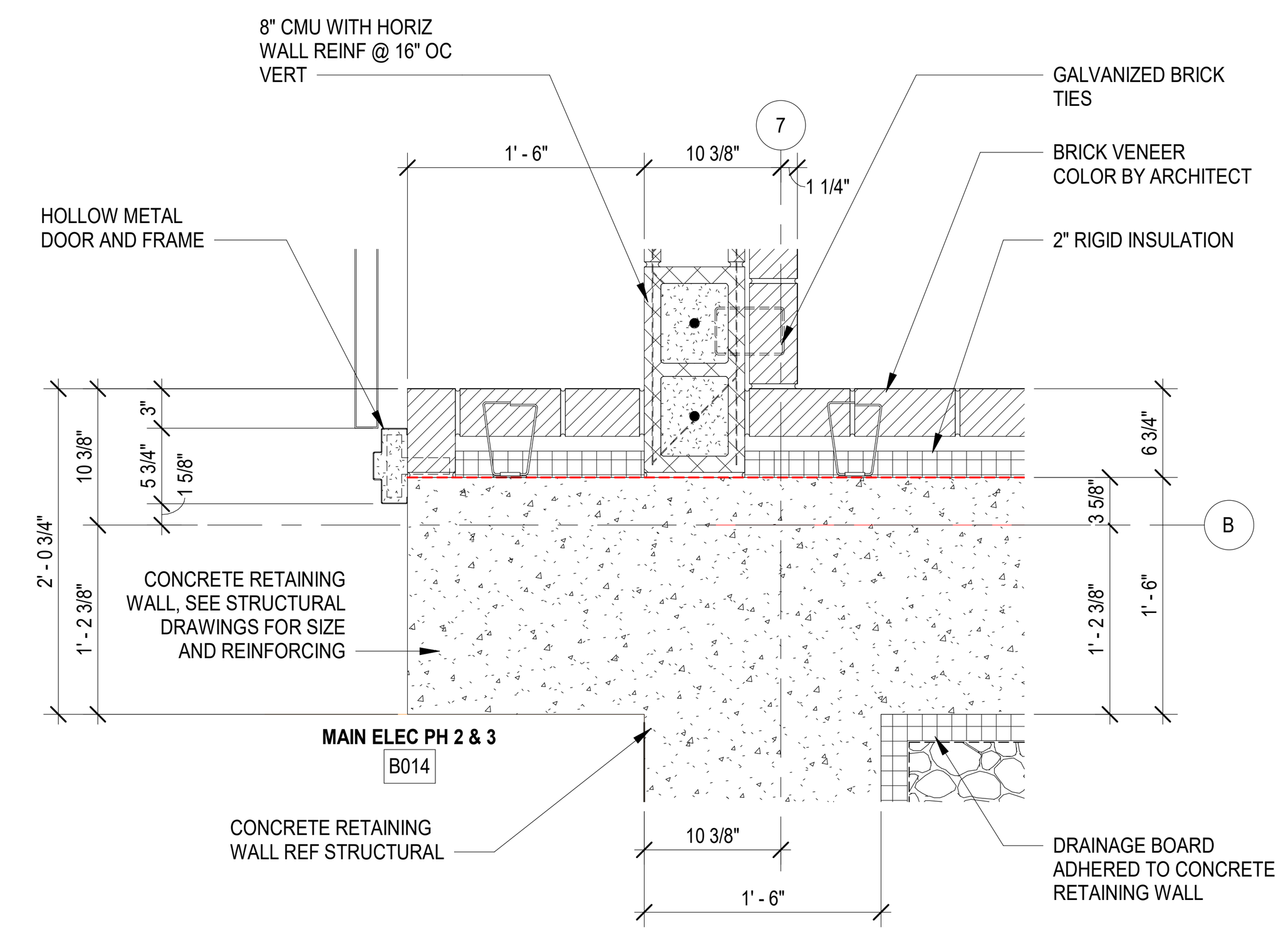
D2 A600 **PLAN DETAIL**
1" = 1'-0"



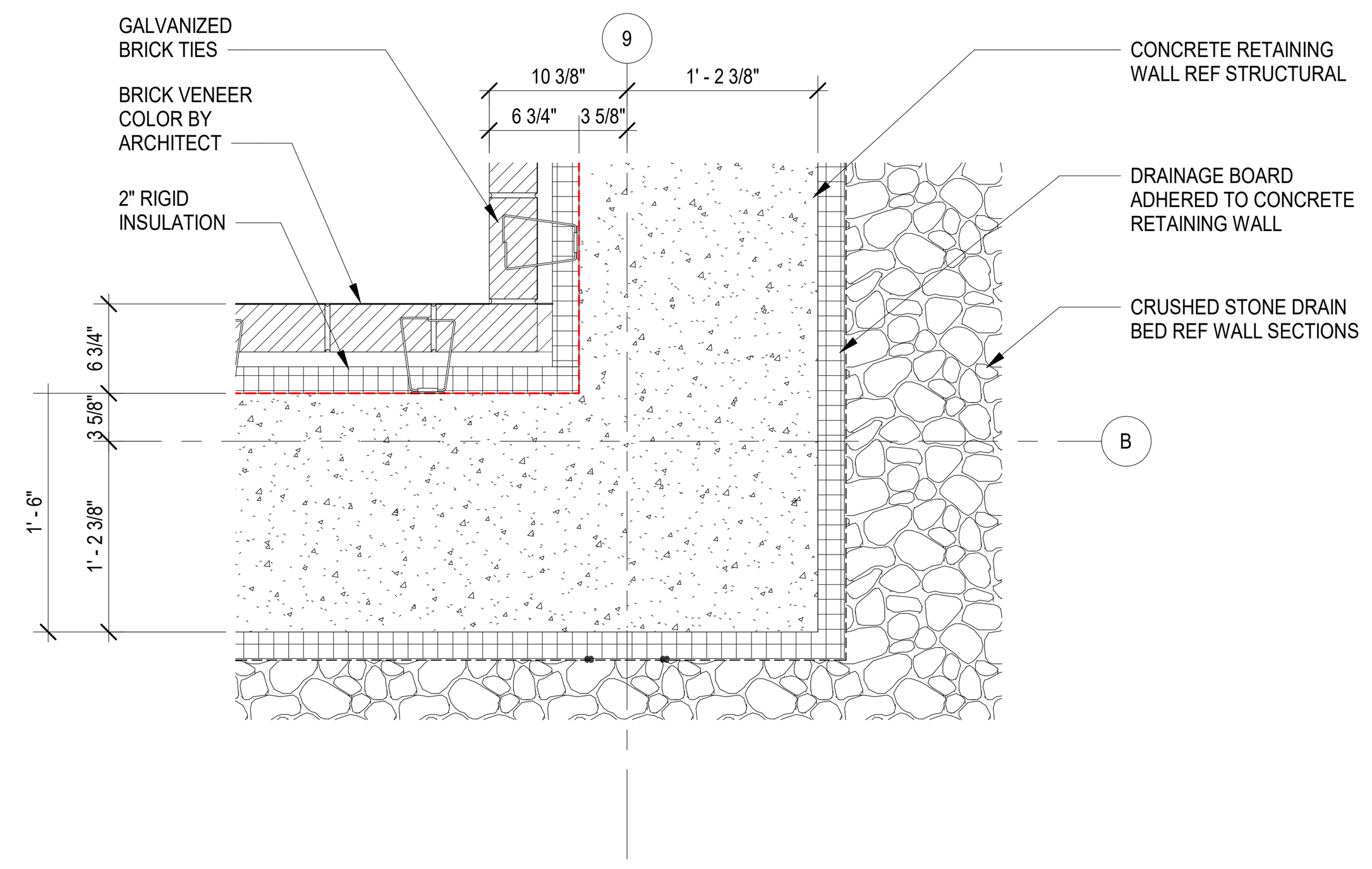
D3 A600 **PLAN DETAIL**
1" = 1'-0"



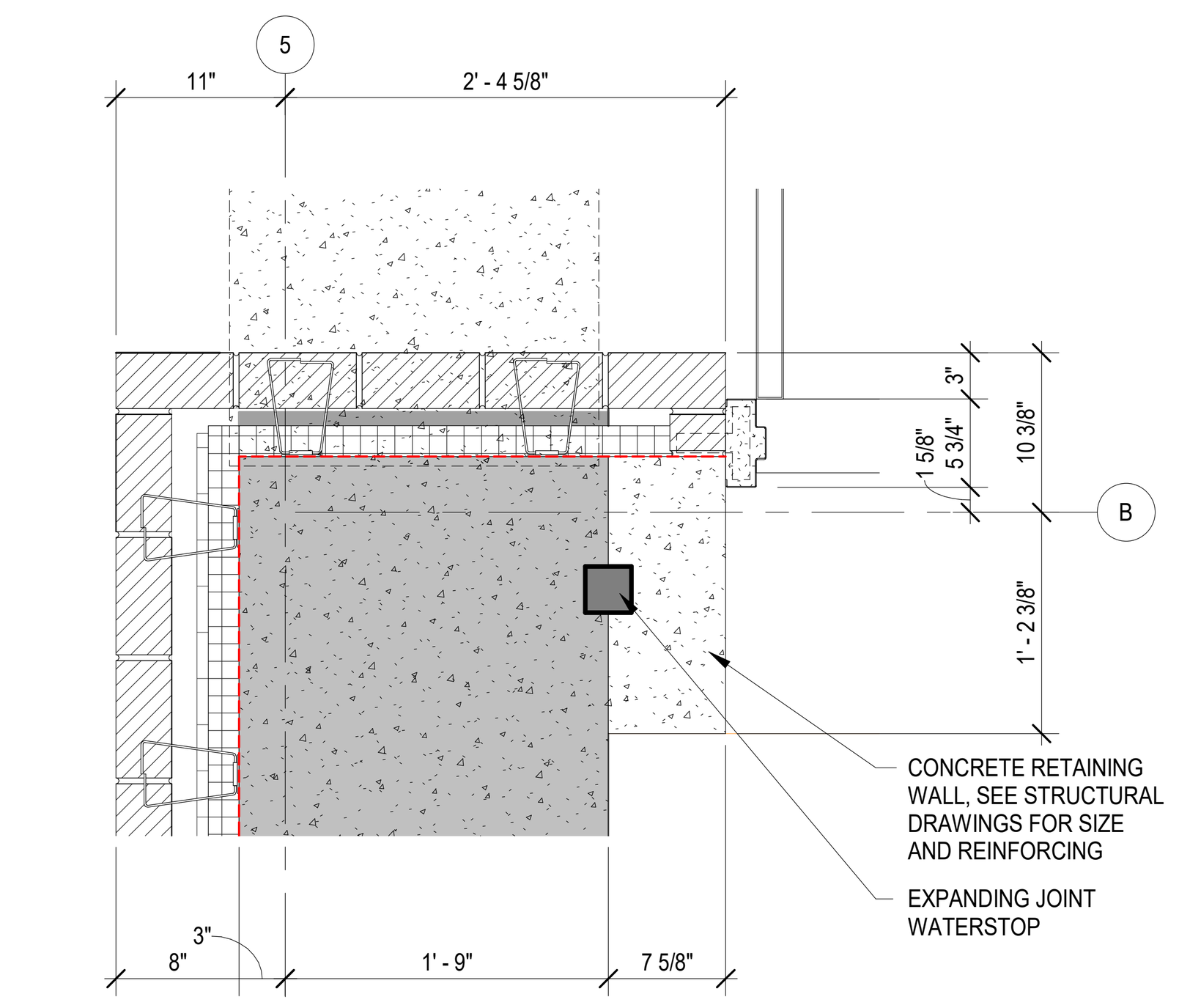
D4 A600 **PLAN DETAIL**
1" = 1'-0"



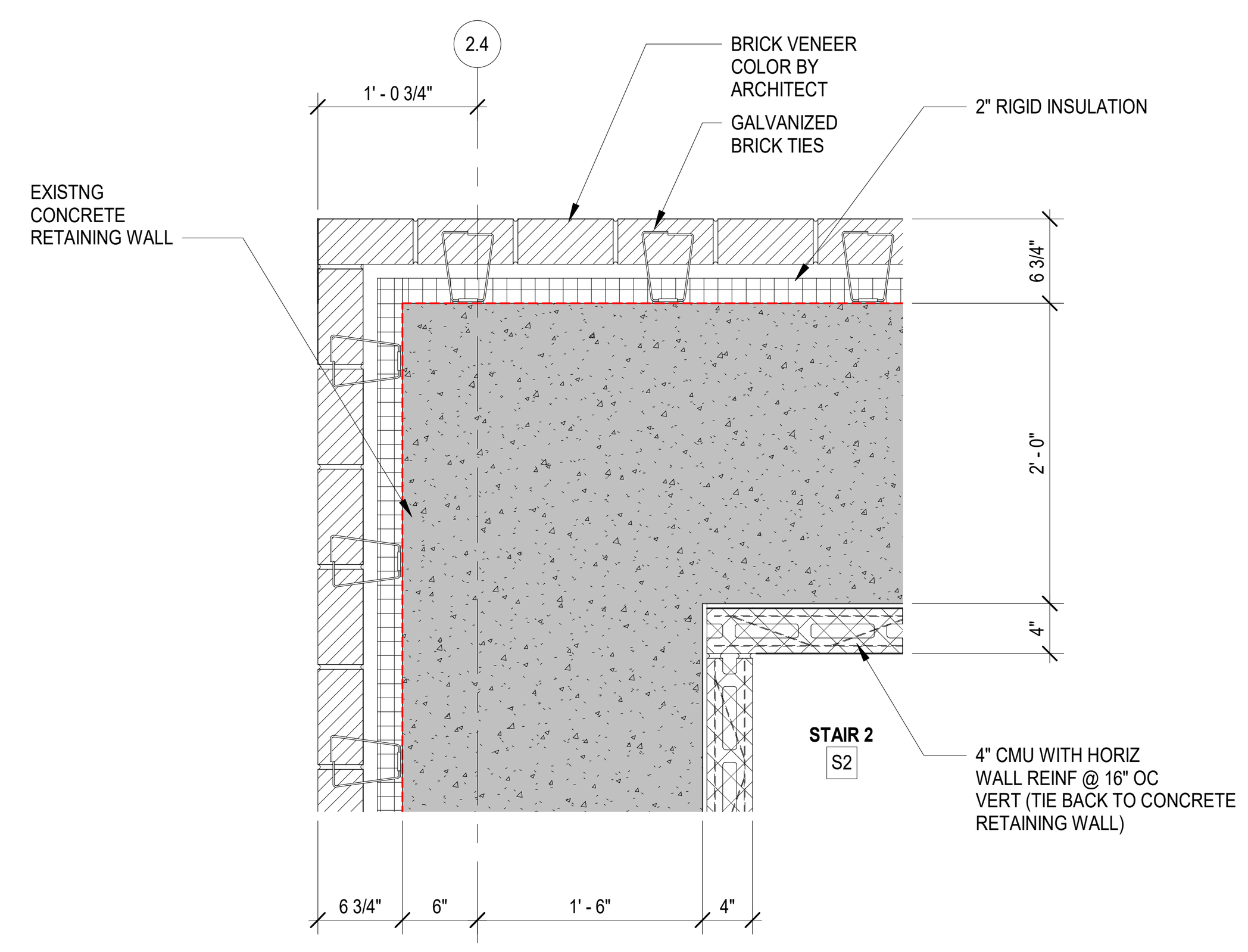
C1 A600 **PLAN DETAIL**
1" = 1'-0"



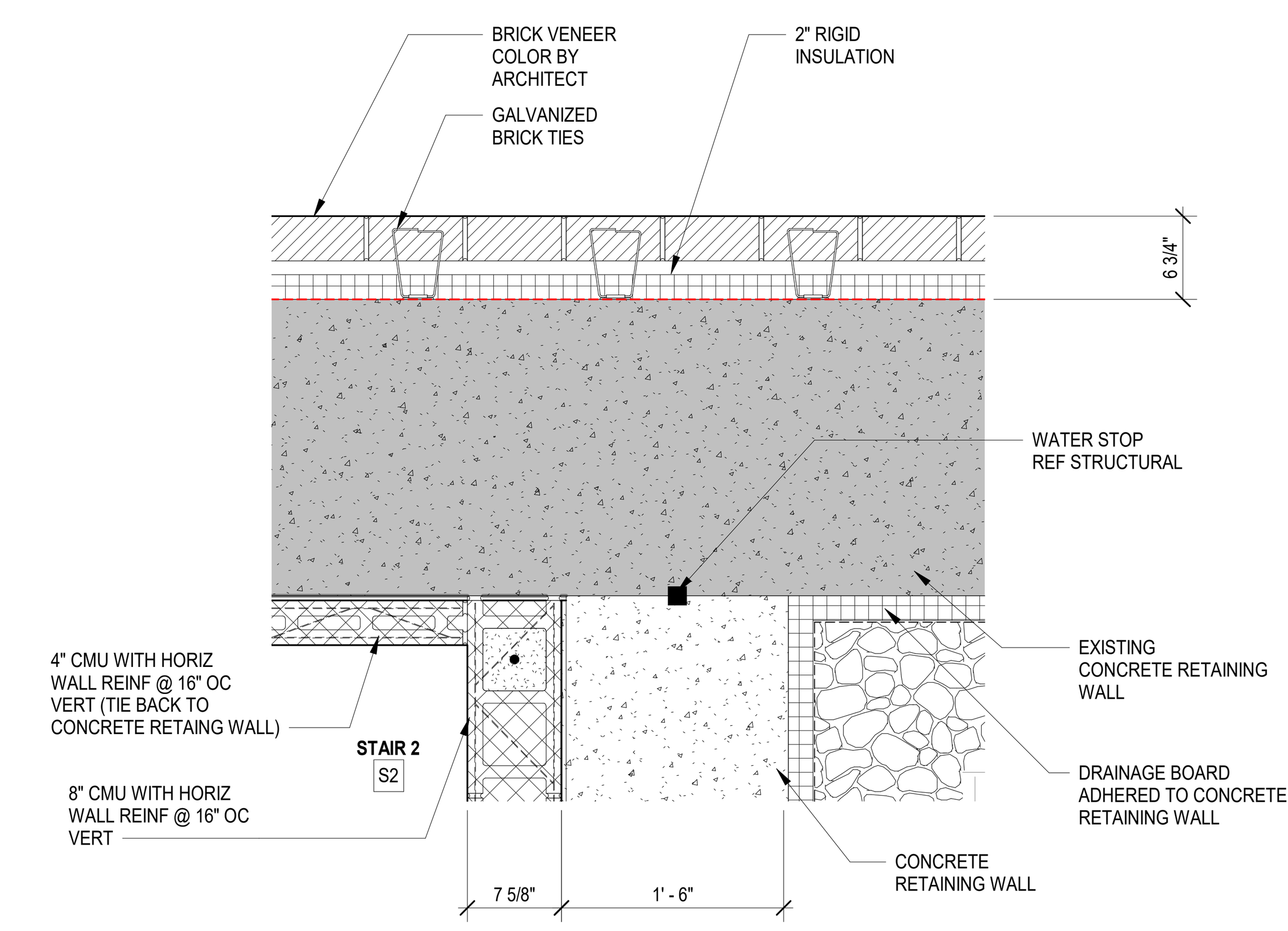
C2 A600 **PLAN DETAIL**
1" = 1'-0"



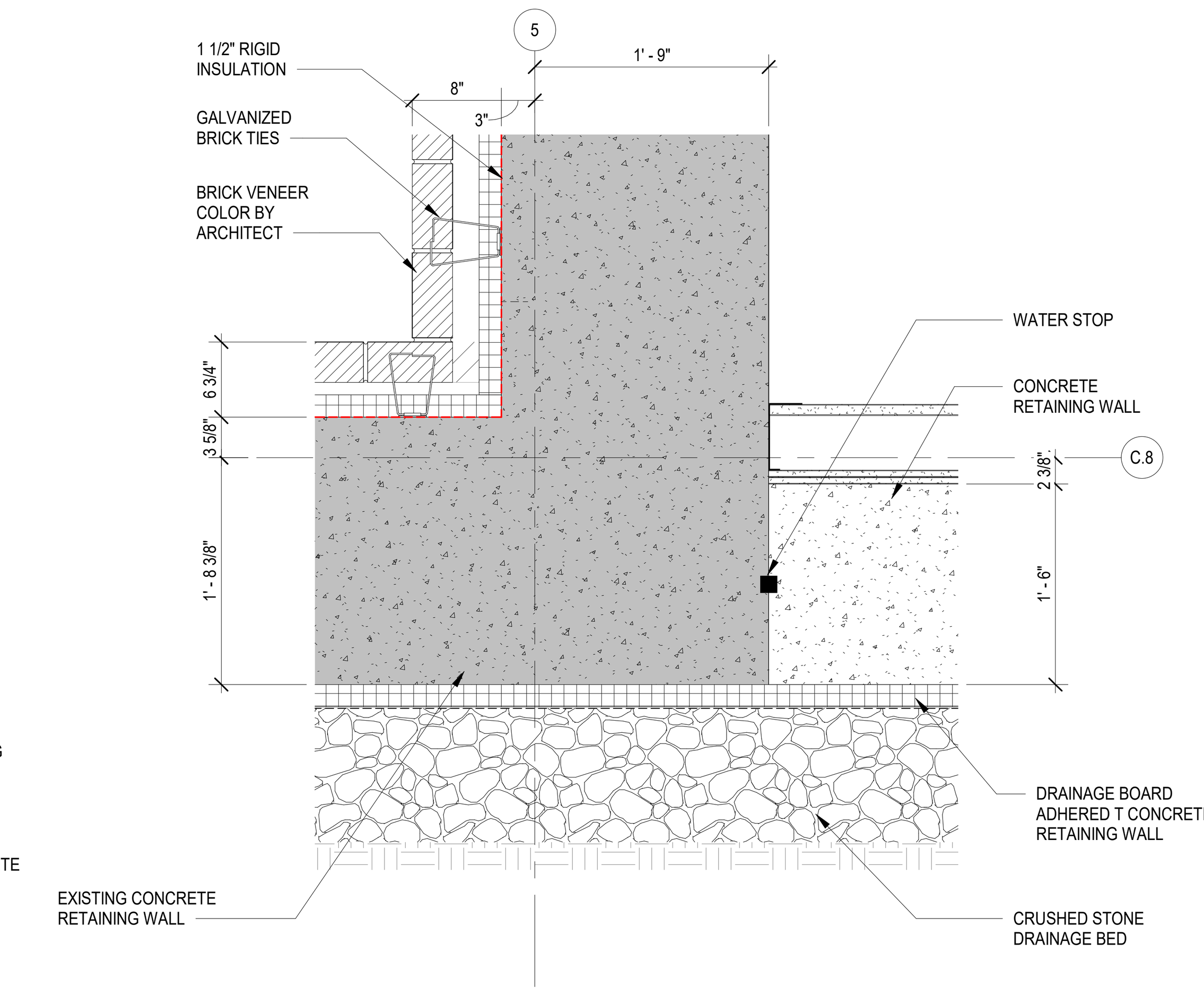
C4 A600 **PLAN DETAIL**
1" = 1'-0"



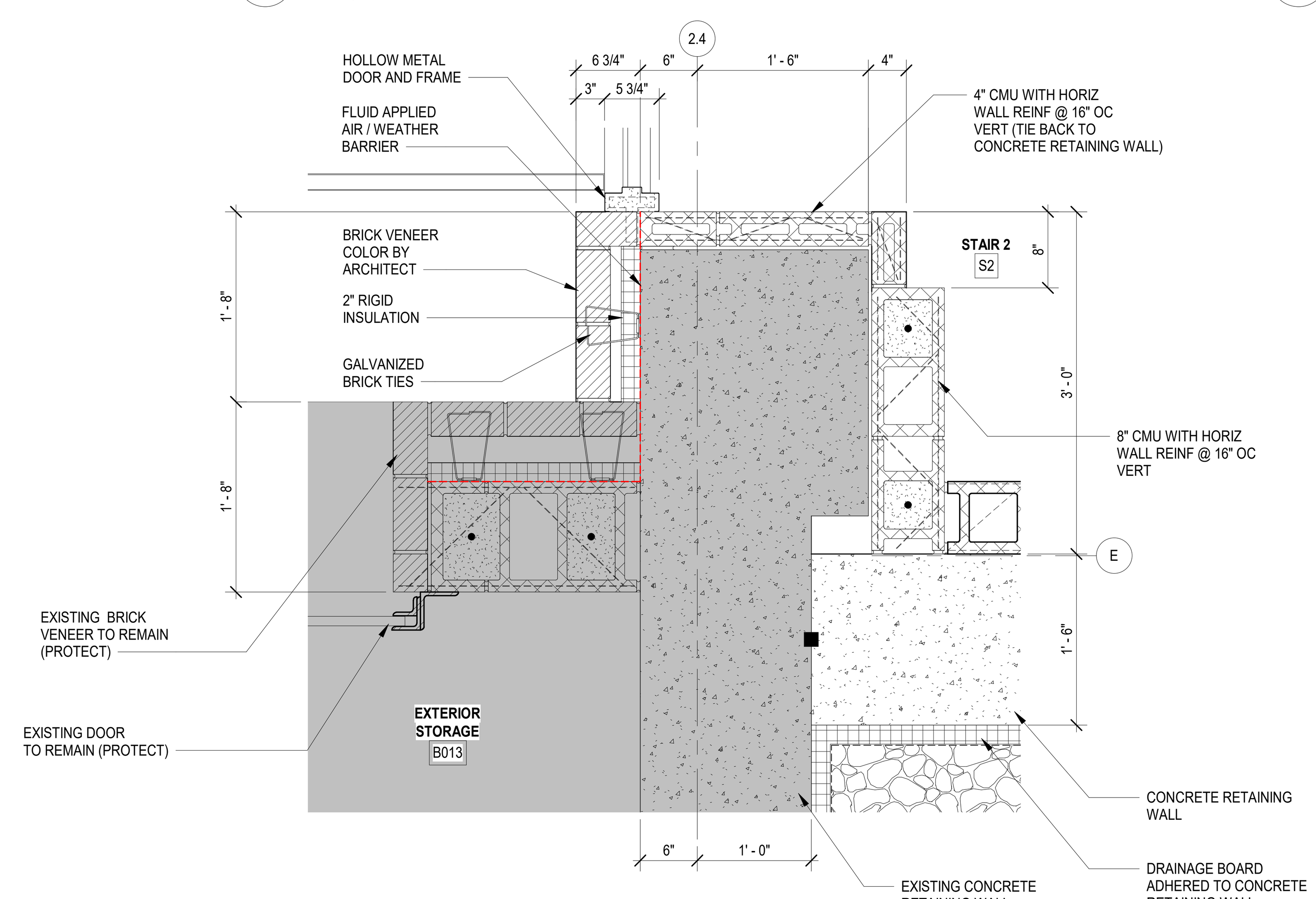
B2 A600 **PLAN DETAIL**
1" = 1'-0"



B3 A600 **PLAN DETAIL**
1" = 1'-0"



B4 A600 **PLAN DETAIL**
1" = 1'-0"



A2 A600 **PLAN DETAIL**
1" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION
FOR PRICING ONLY

SHEET ISSUE:

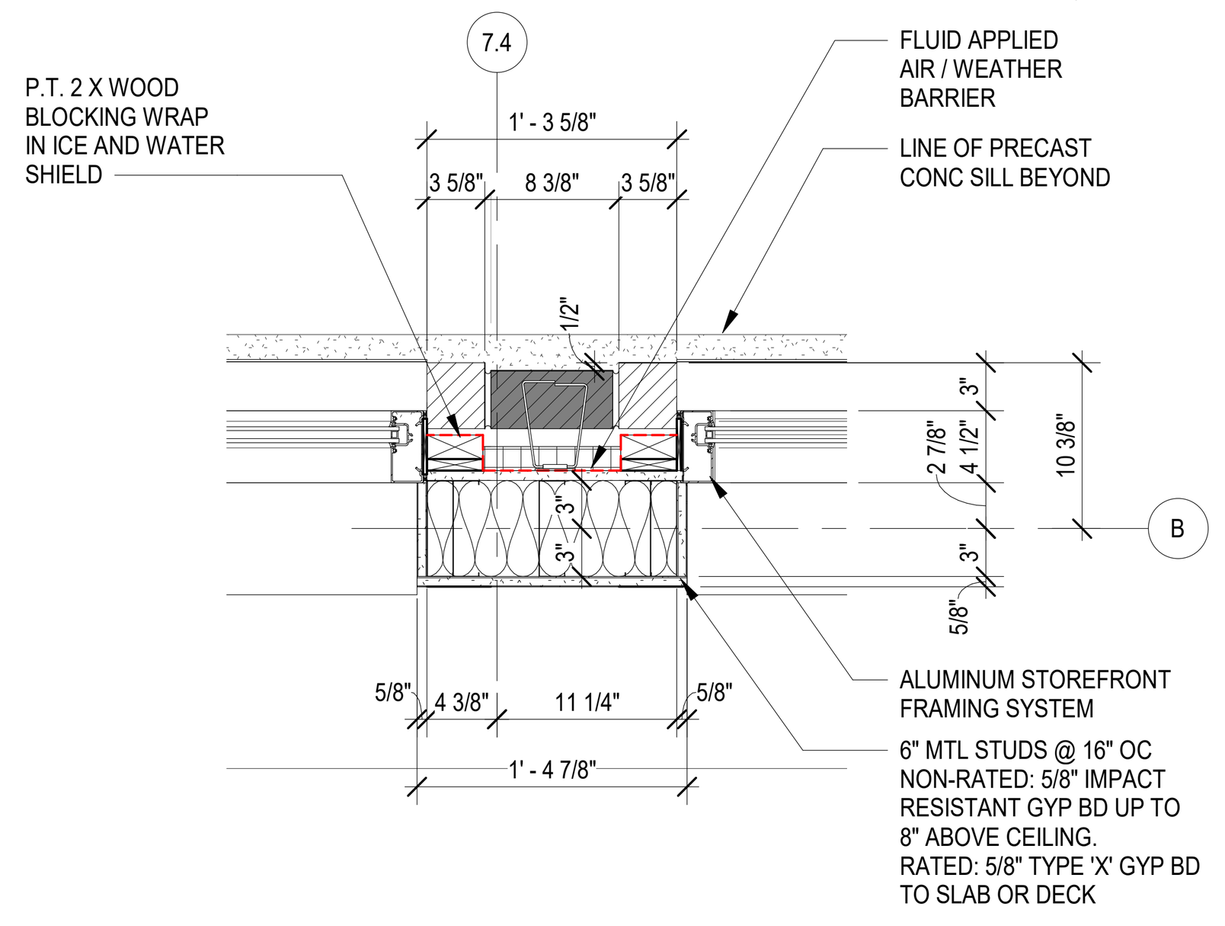
NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

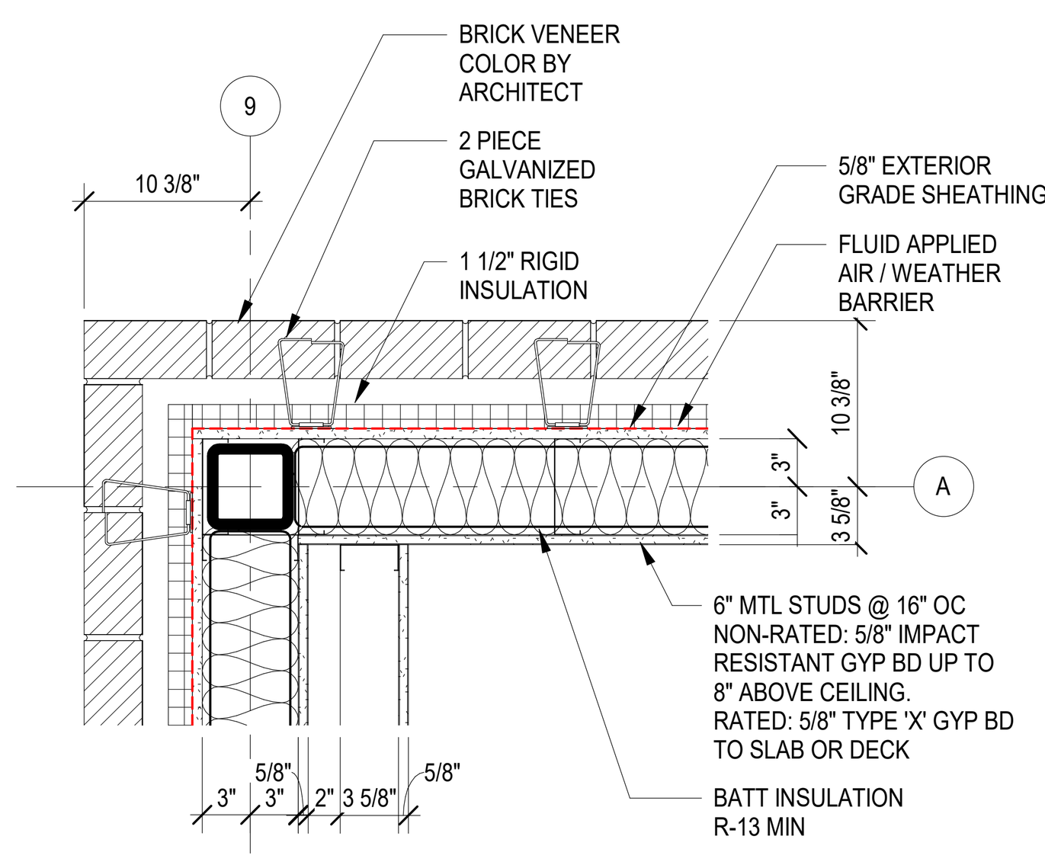
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: DC

SHEET TITLE:
PLAN DETAILS - AREAS A/B - BASEMENT

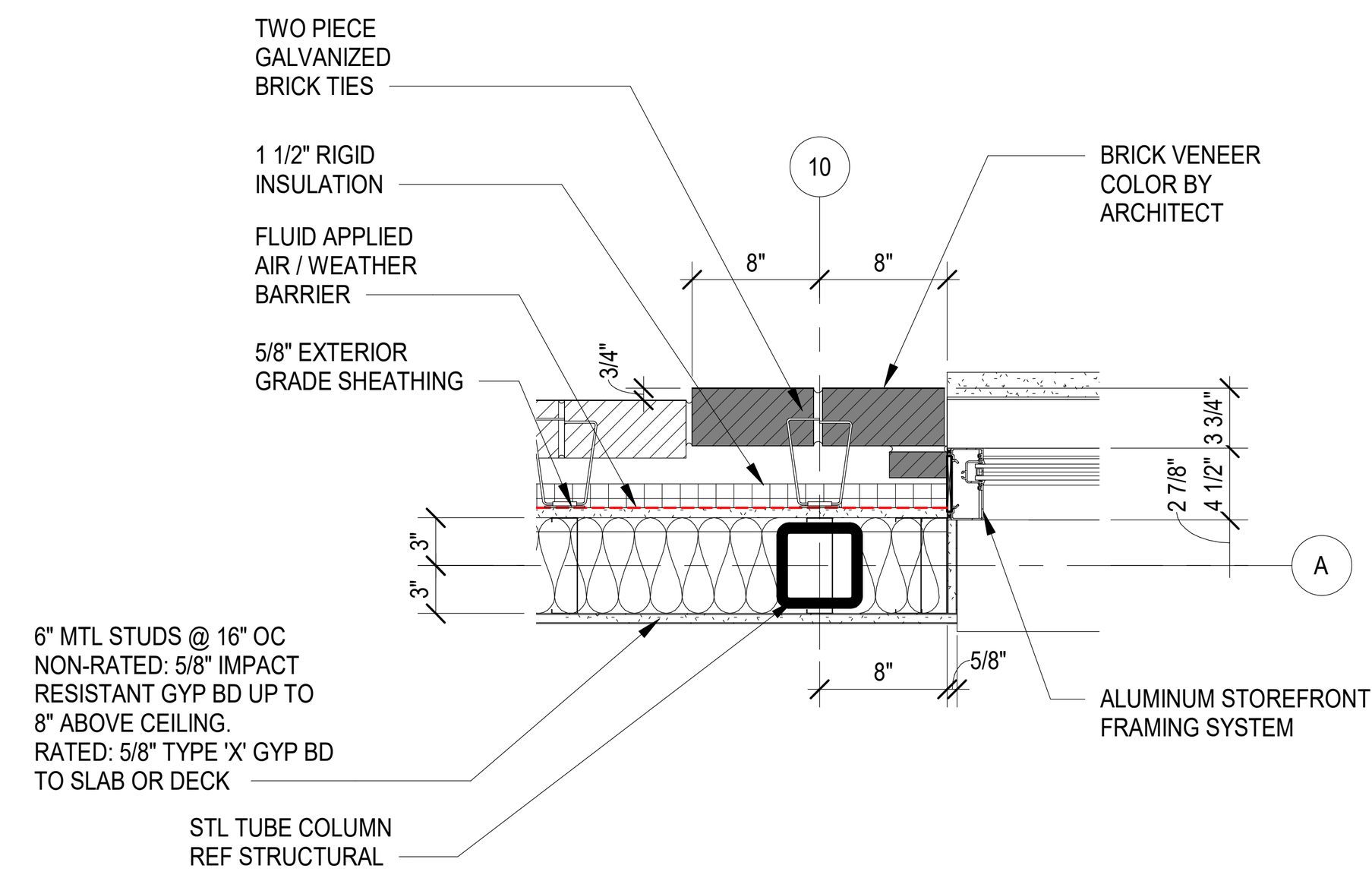
SHEET NO.: A600
PROJ. NO.: 020420.00



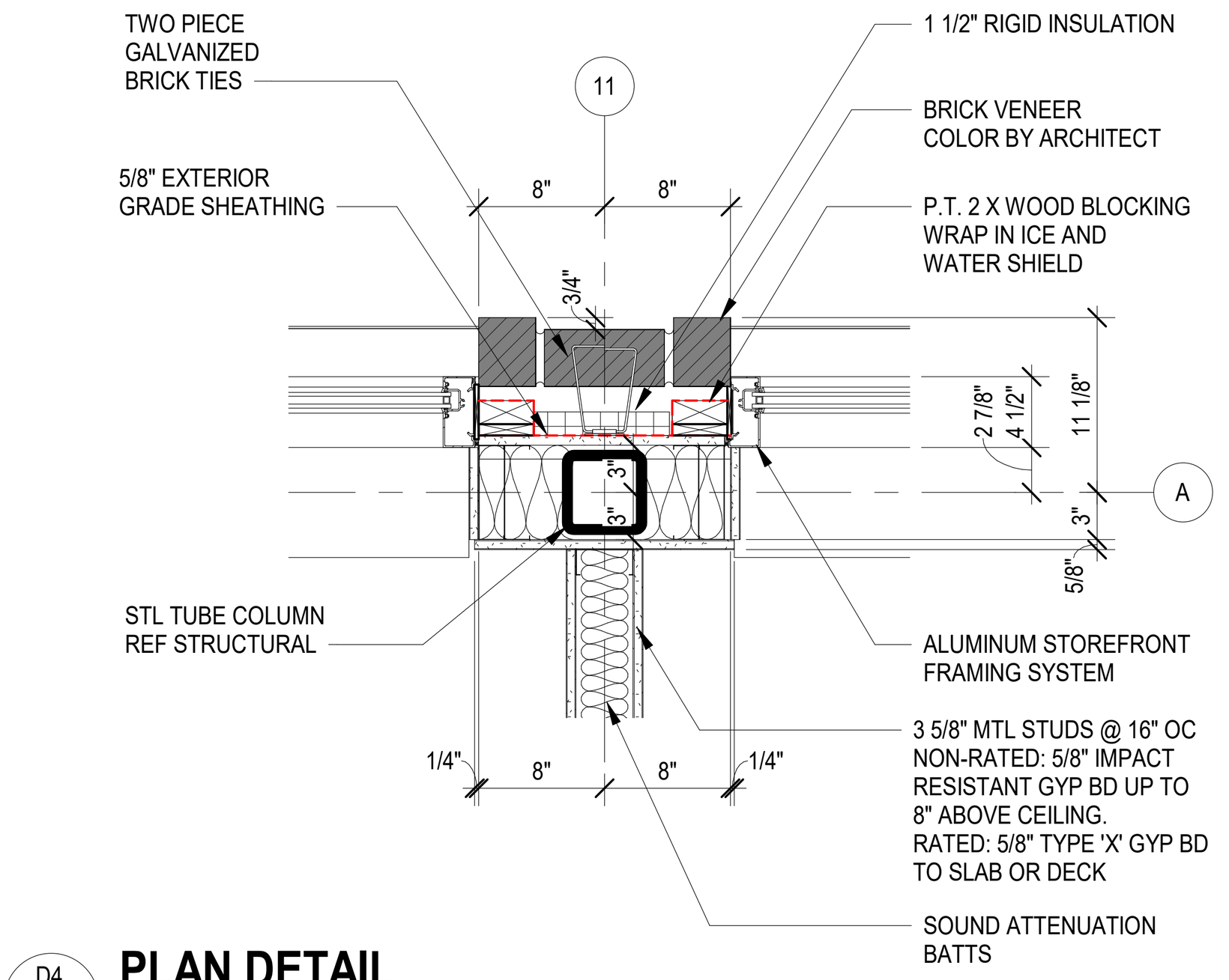
D1 **PLAN DETAIL**
A601 1" = 1'-0"



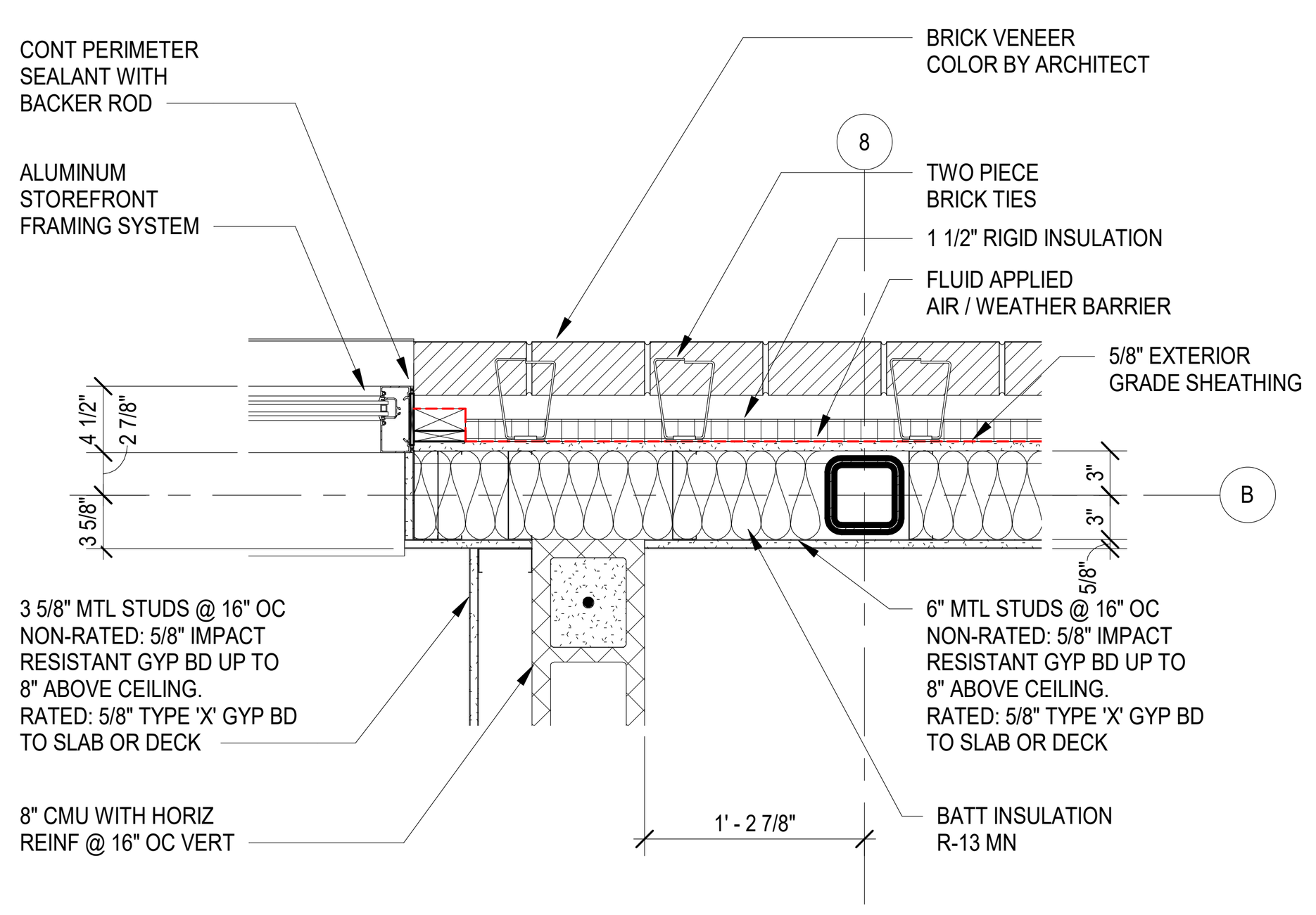
D2 **PLAN DETAIL**
A601 1" = 1'-0"



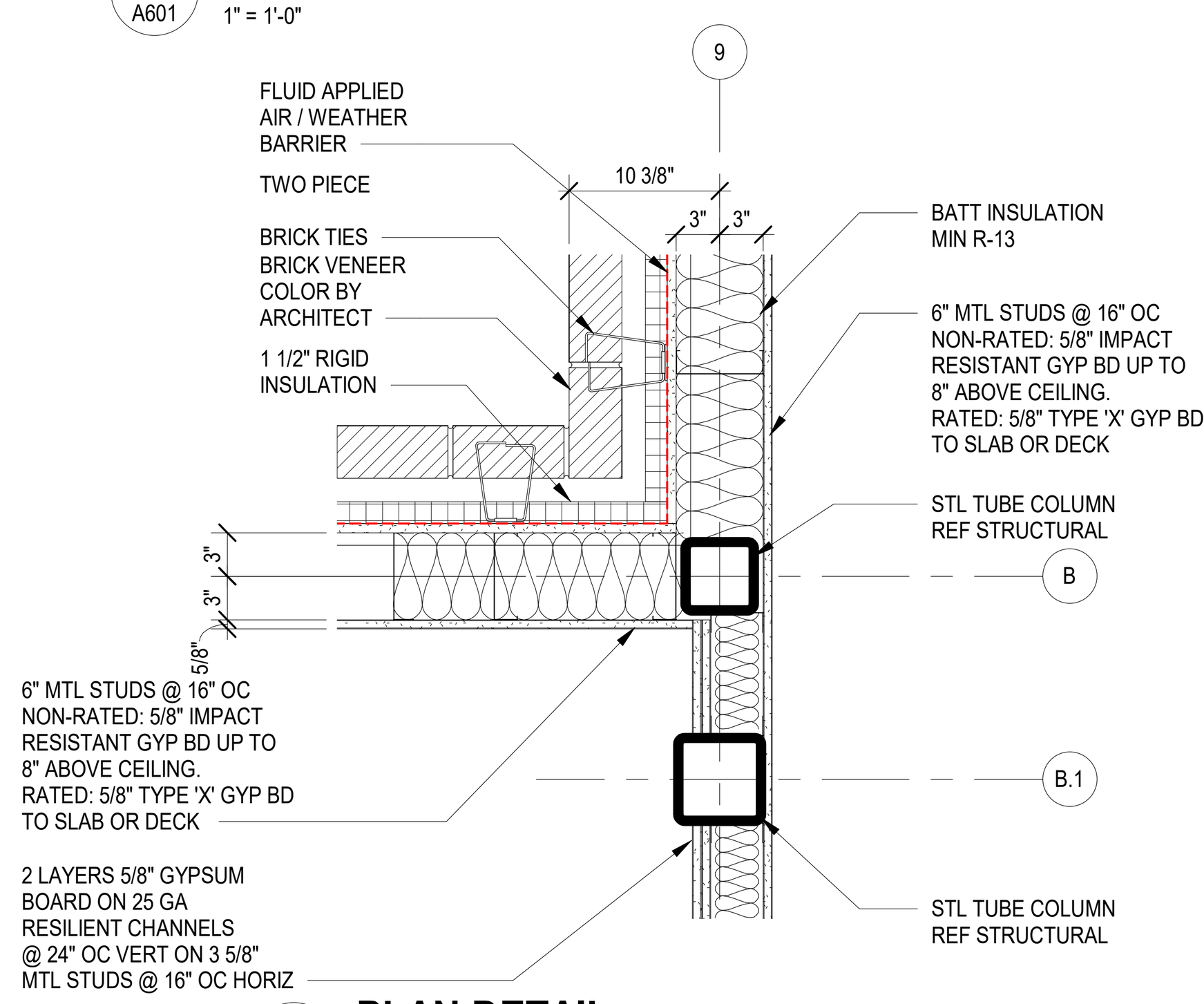
D3 **PLAN DEAIL**
A601 1" = 1'-0"



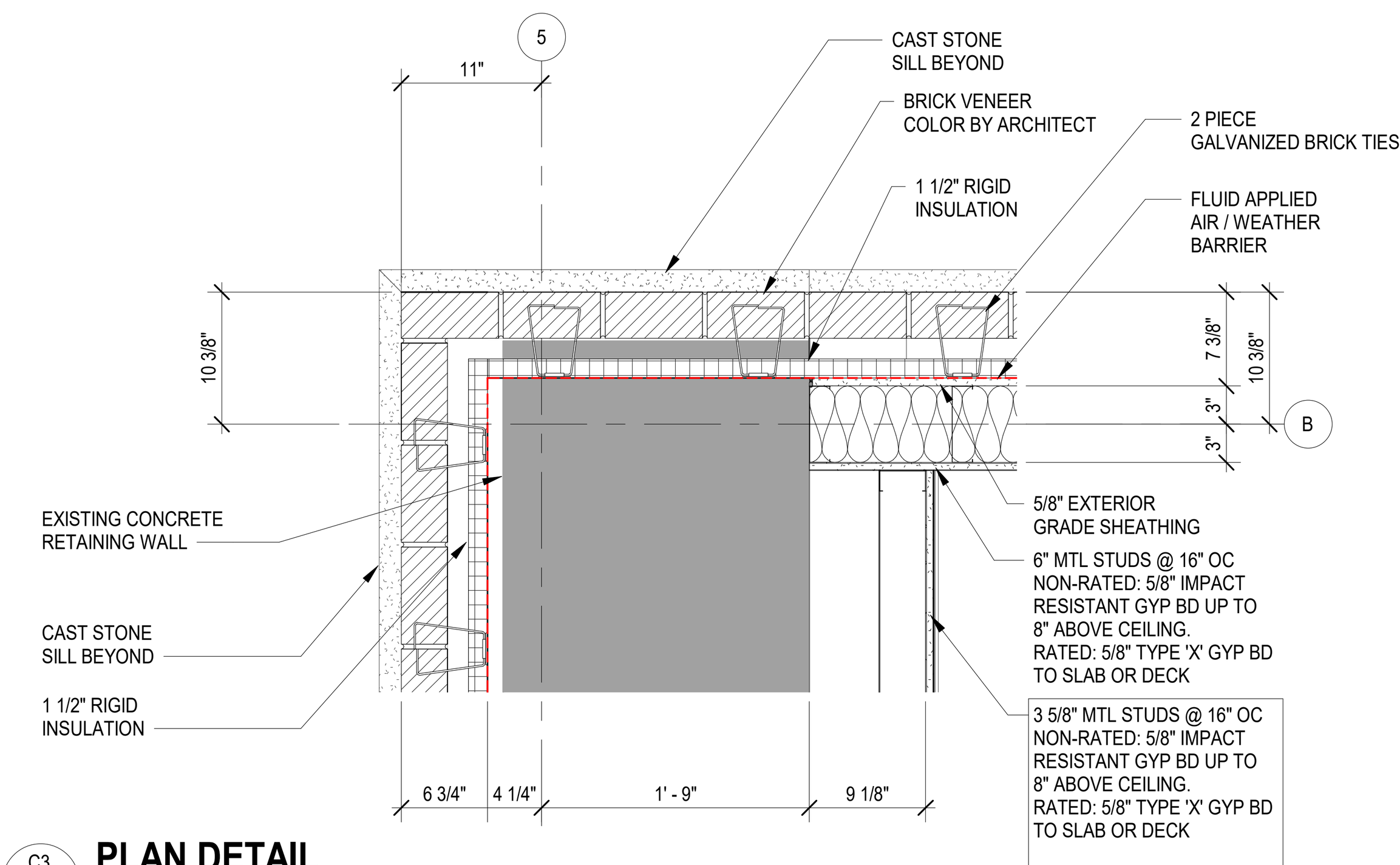
D4 **PLAN DETAIL**
A601 1" = 1'-0"



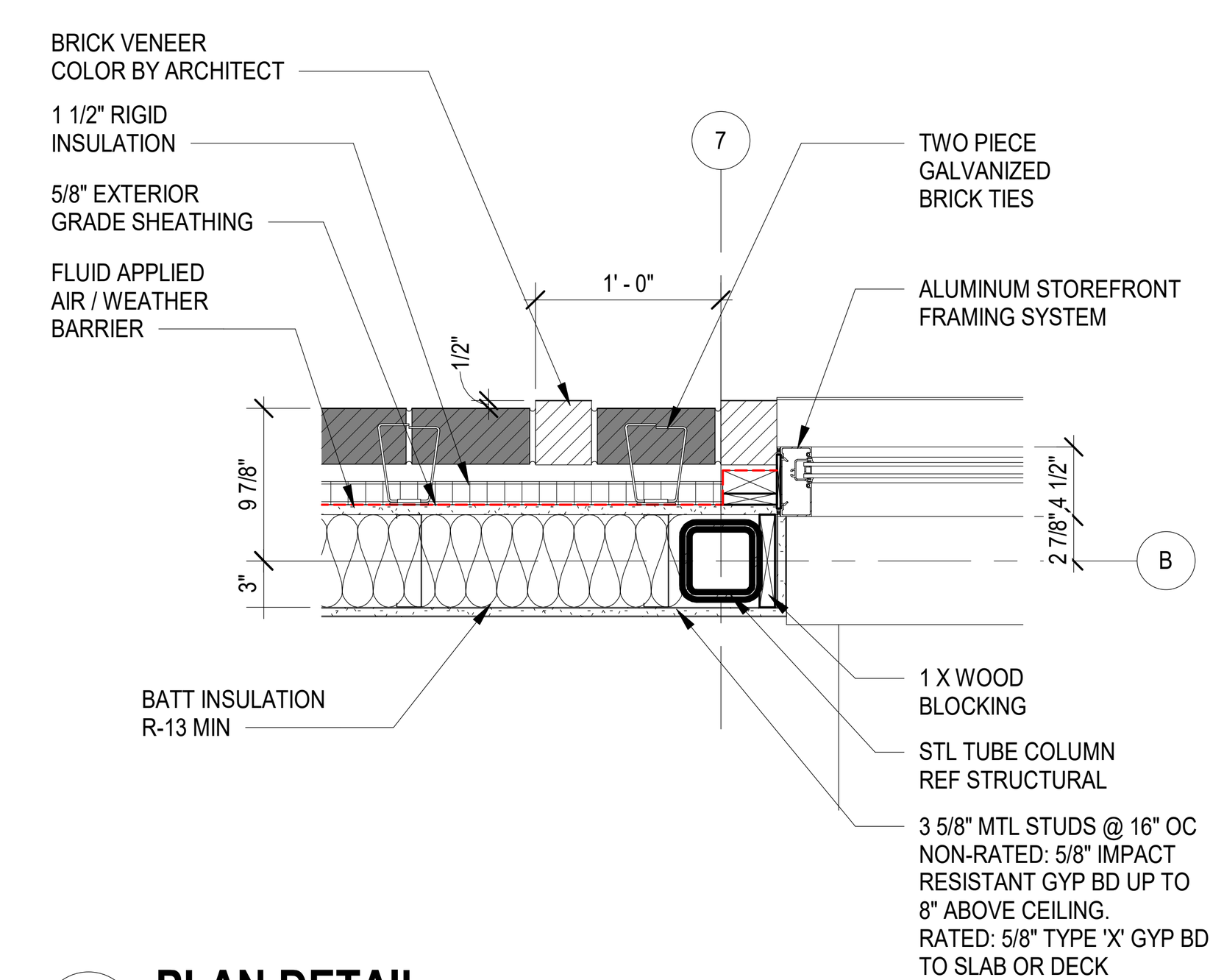
C1 **PLAN DETAIL**
A601 1" = 1'-0"



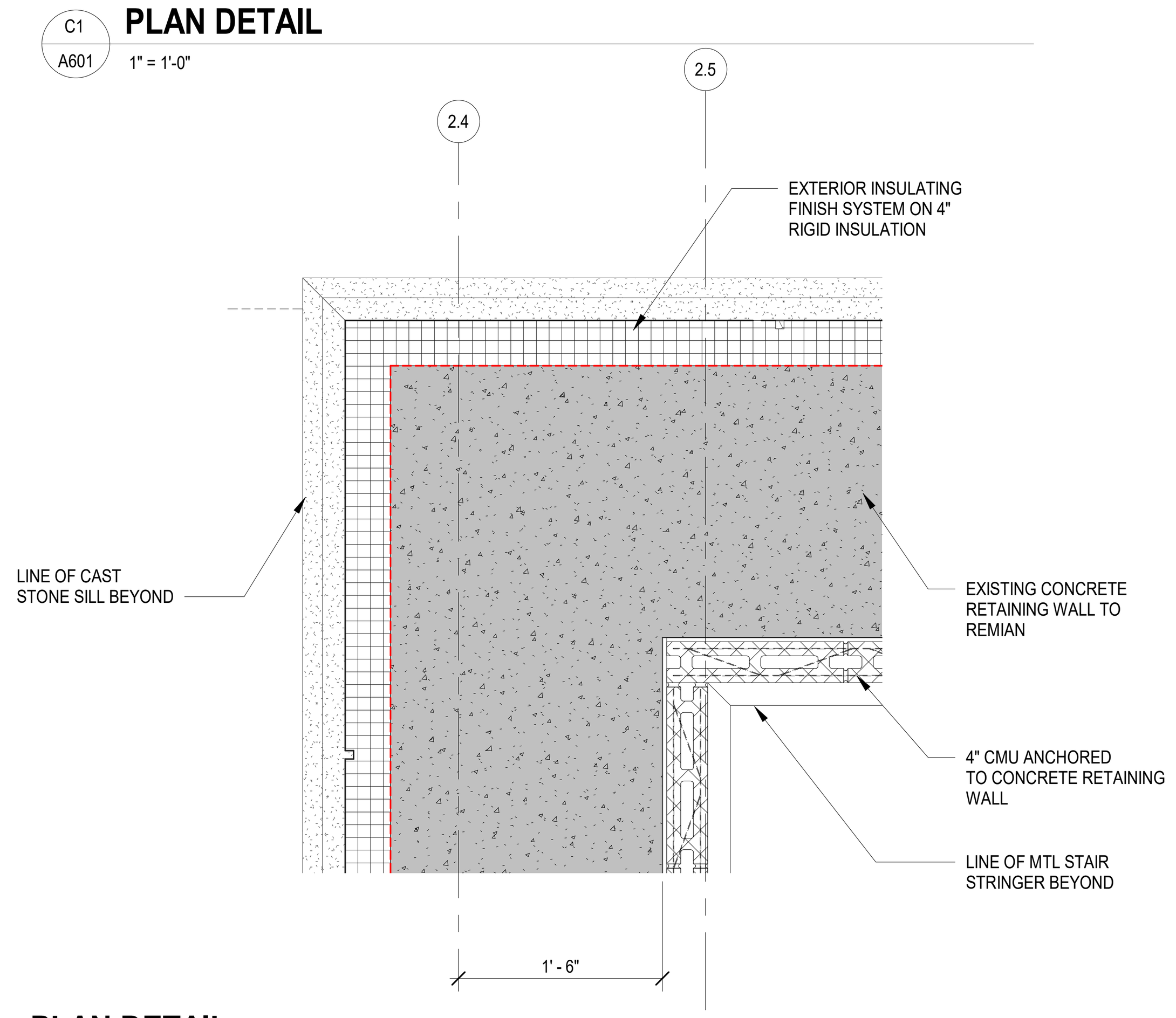
C2 **PLAN DETAIL**
A601 1" = 1'-0"



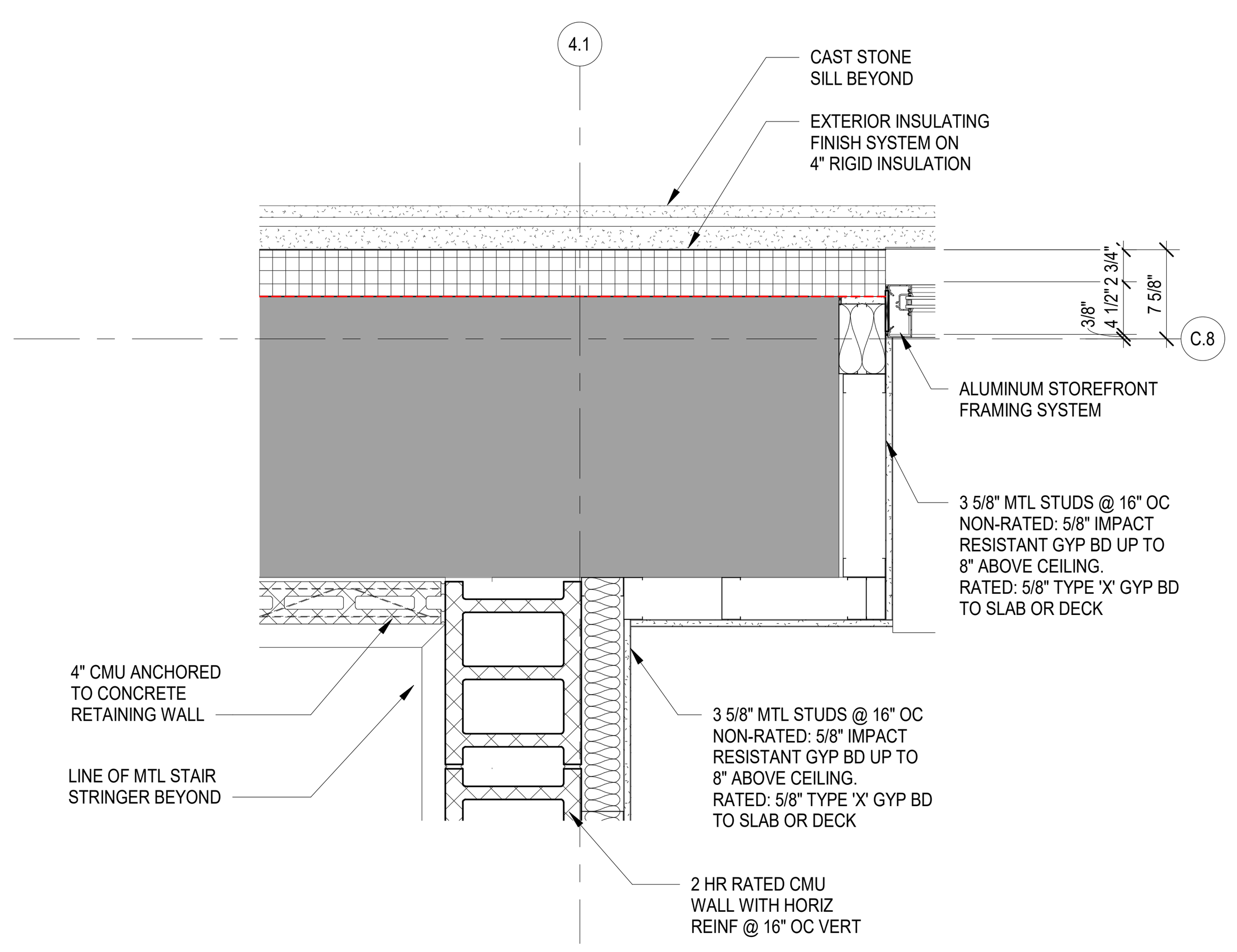
C3 **PLAN DETAIL**
A601 1" = 1'-0"



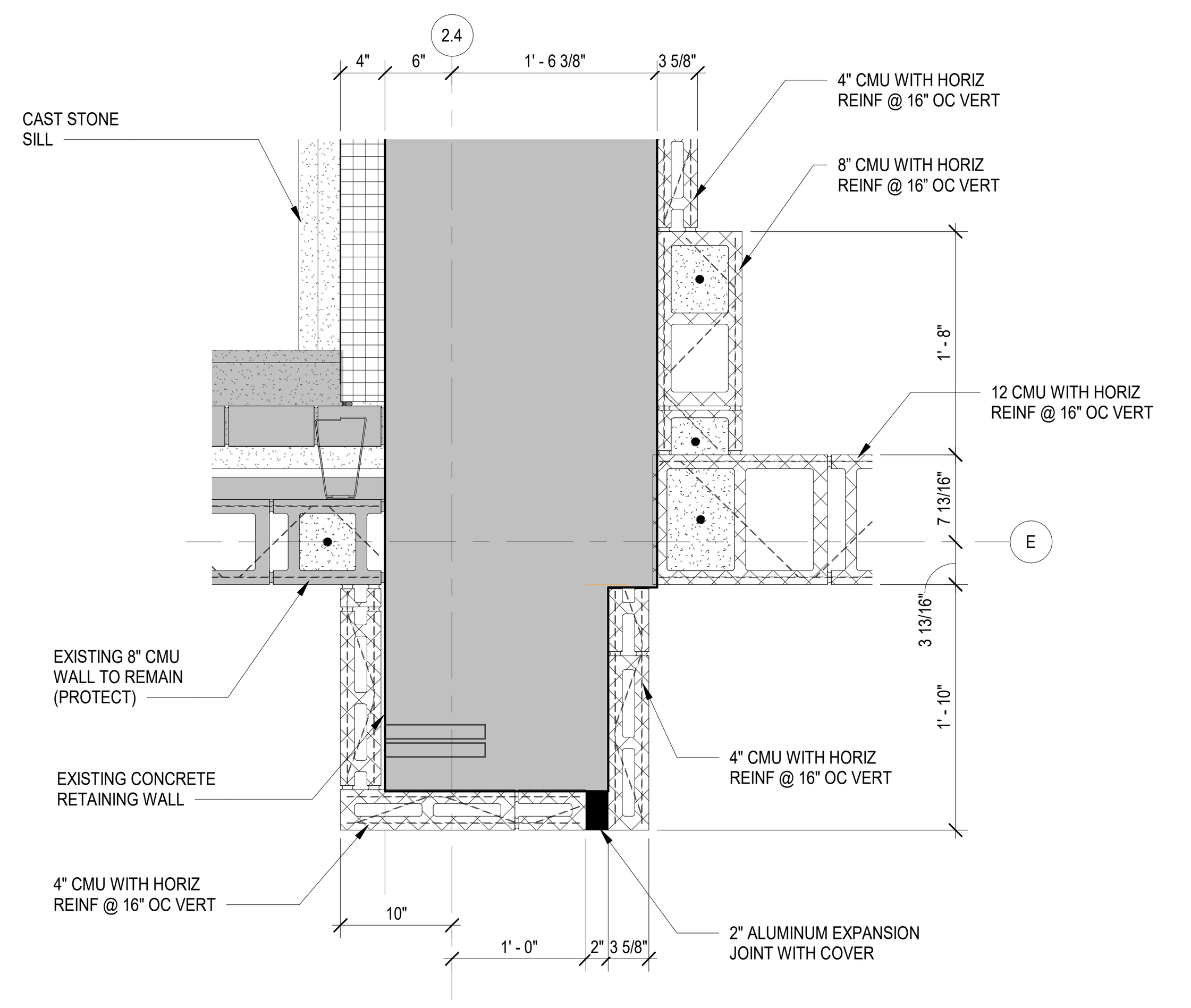
C4 **PLAN DETAIL**
A601 1" = 1'-0"



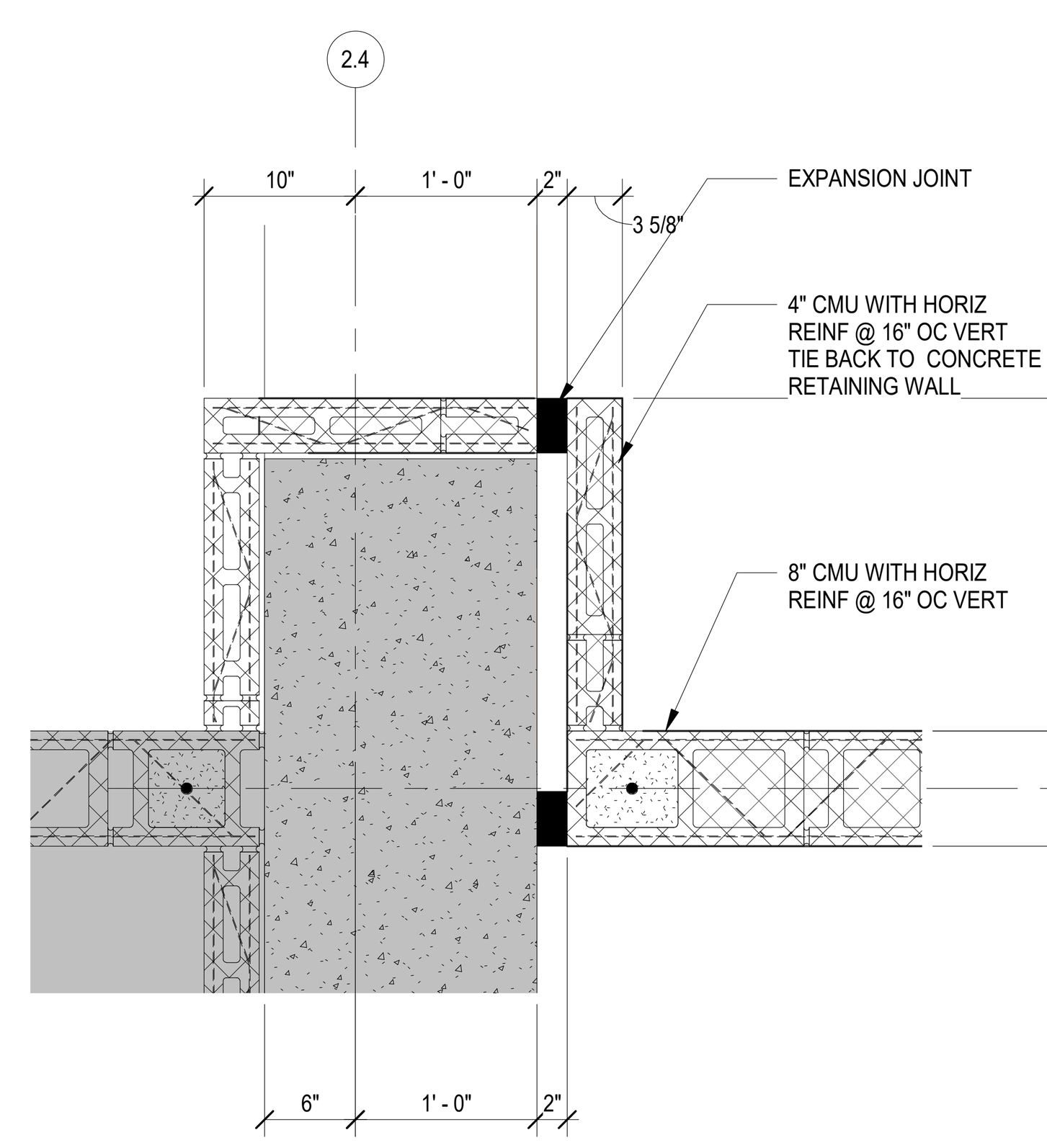
B1 **PLAN DETAIL**
A601 1" = 1'-0"



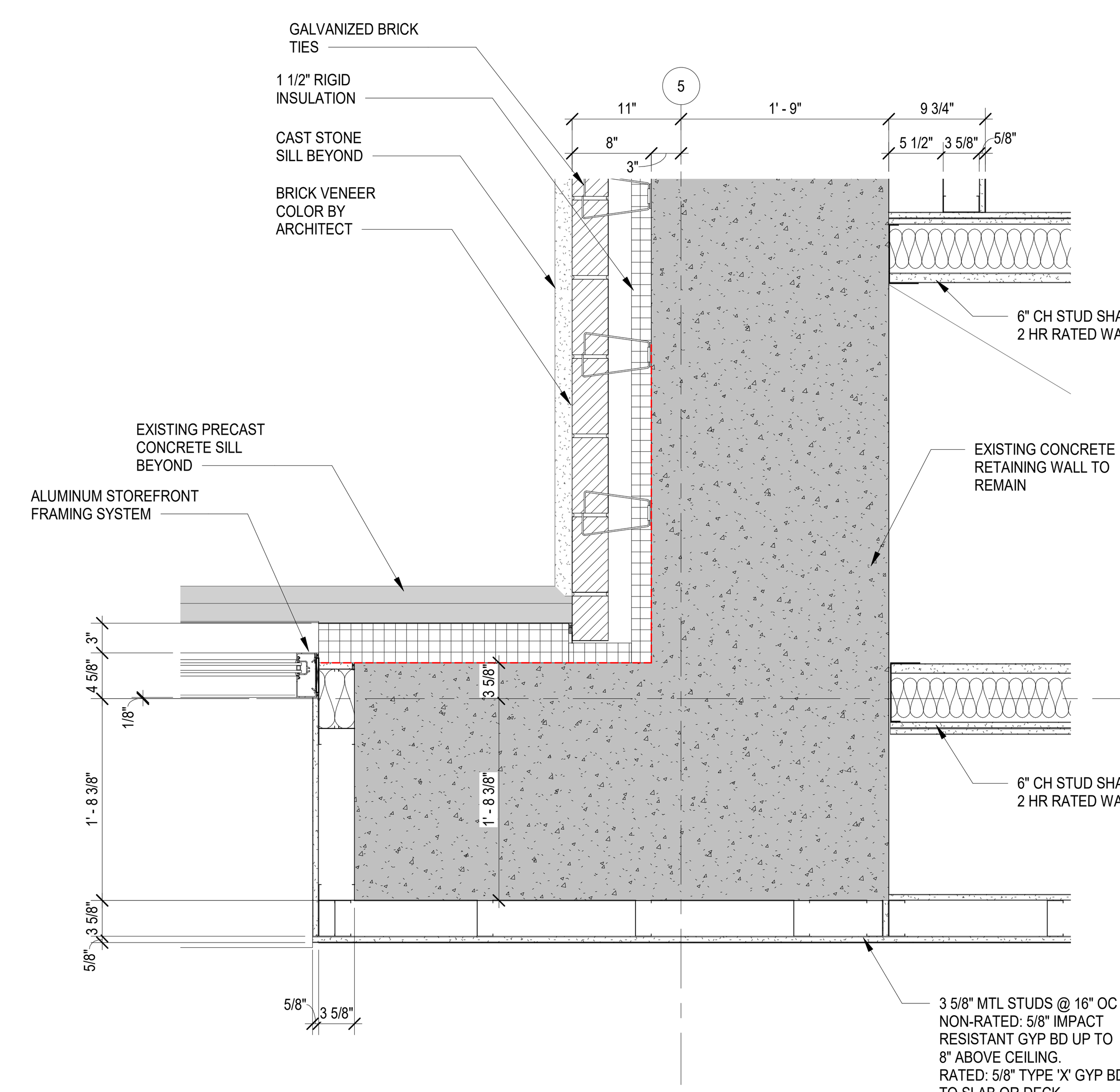
B2 **PLAN DETAIL**
A601 1" = 1'-0"



A1 **PLAN DETAIL**
A601 1" = 1'-0"



A2 **PLAN DETAIL**
A601 1" = 1'-0"



A3 **PLAN DETAIL**
A601 1" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

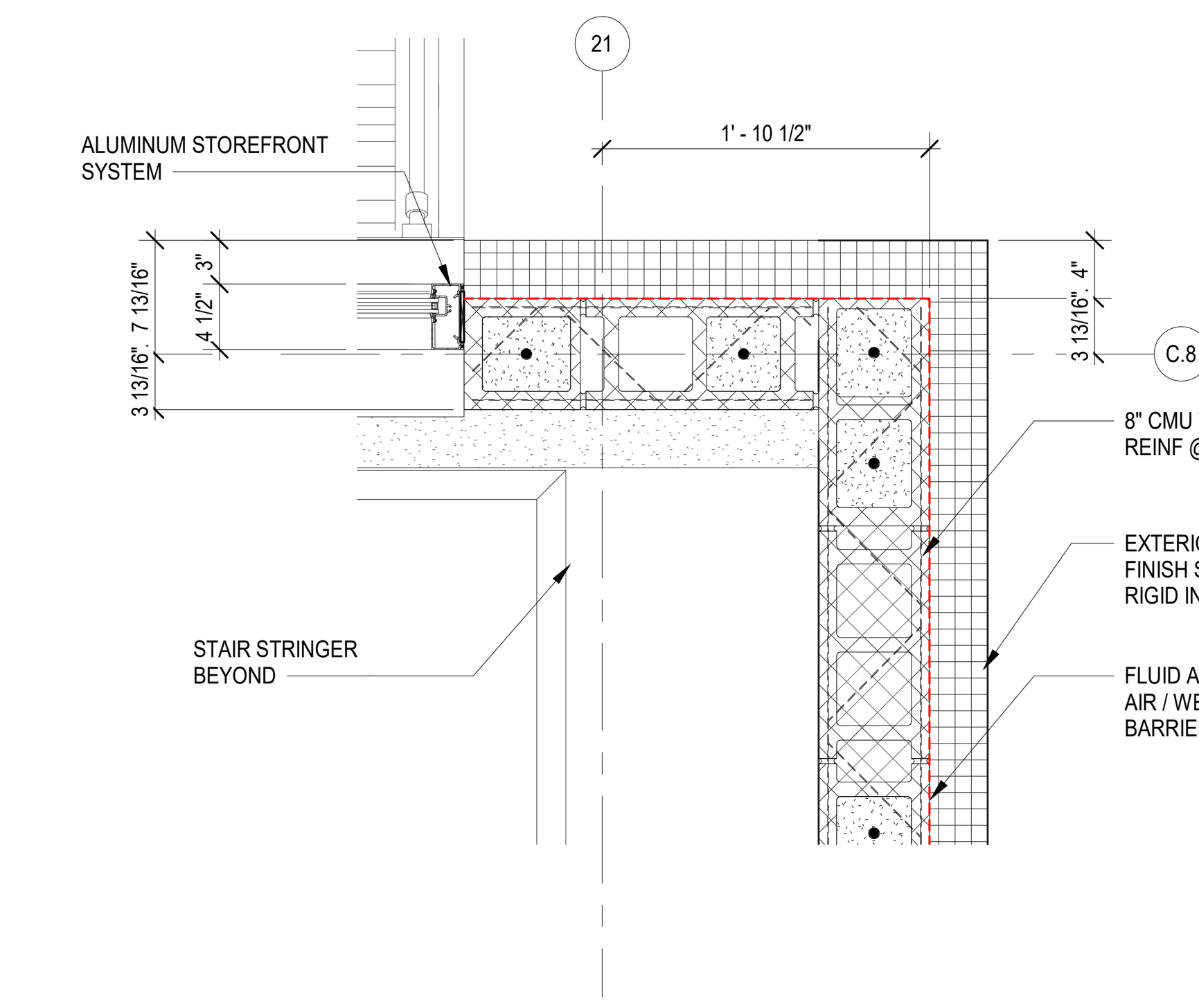
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: DC

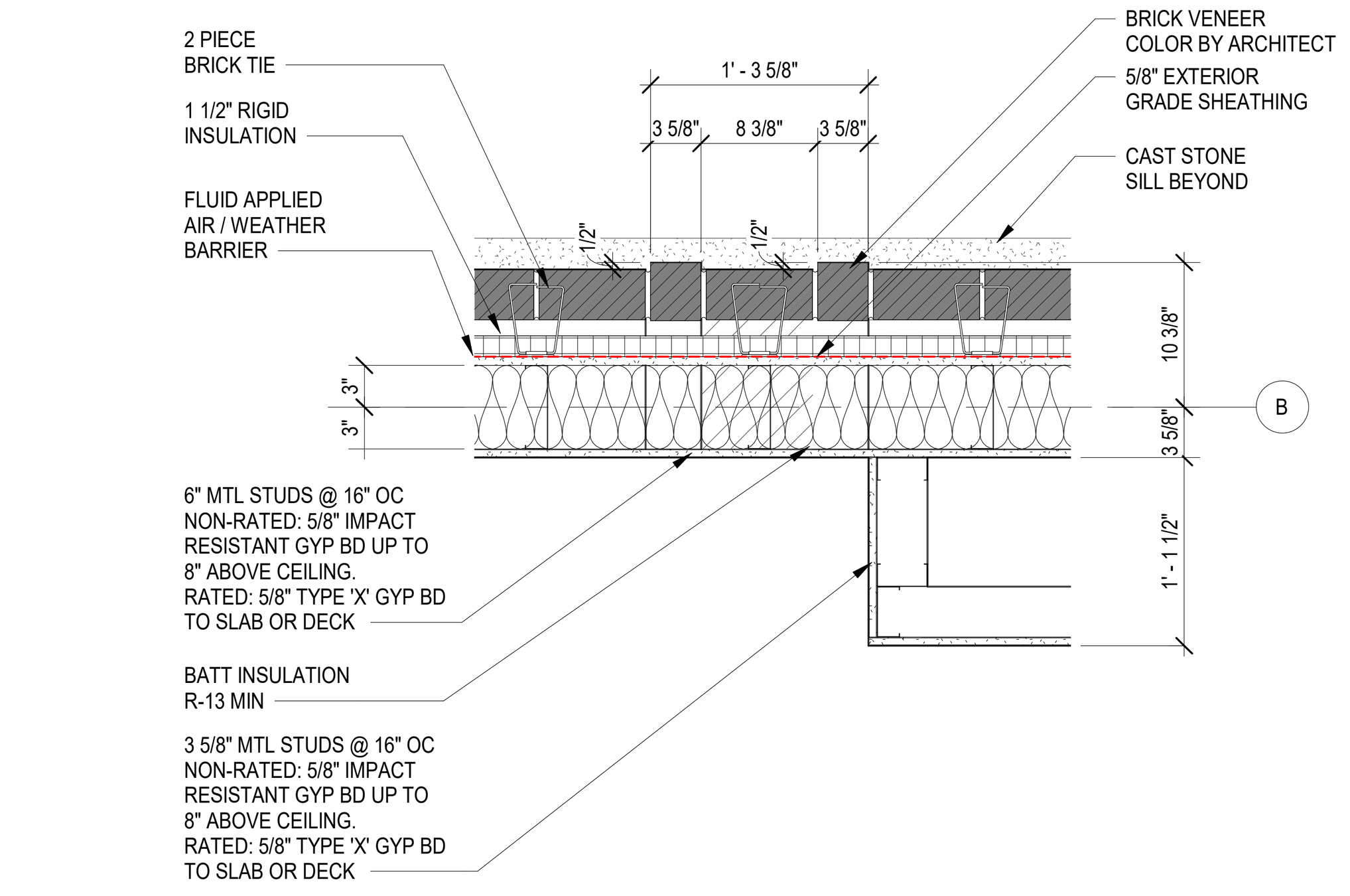
SHEET TITLE:
PLAN DETAILS - AREAS A/B - LEVEL 1000

SHEET NO. PROJ. NO. 020420.00

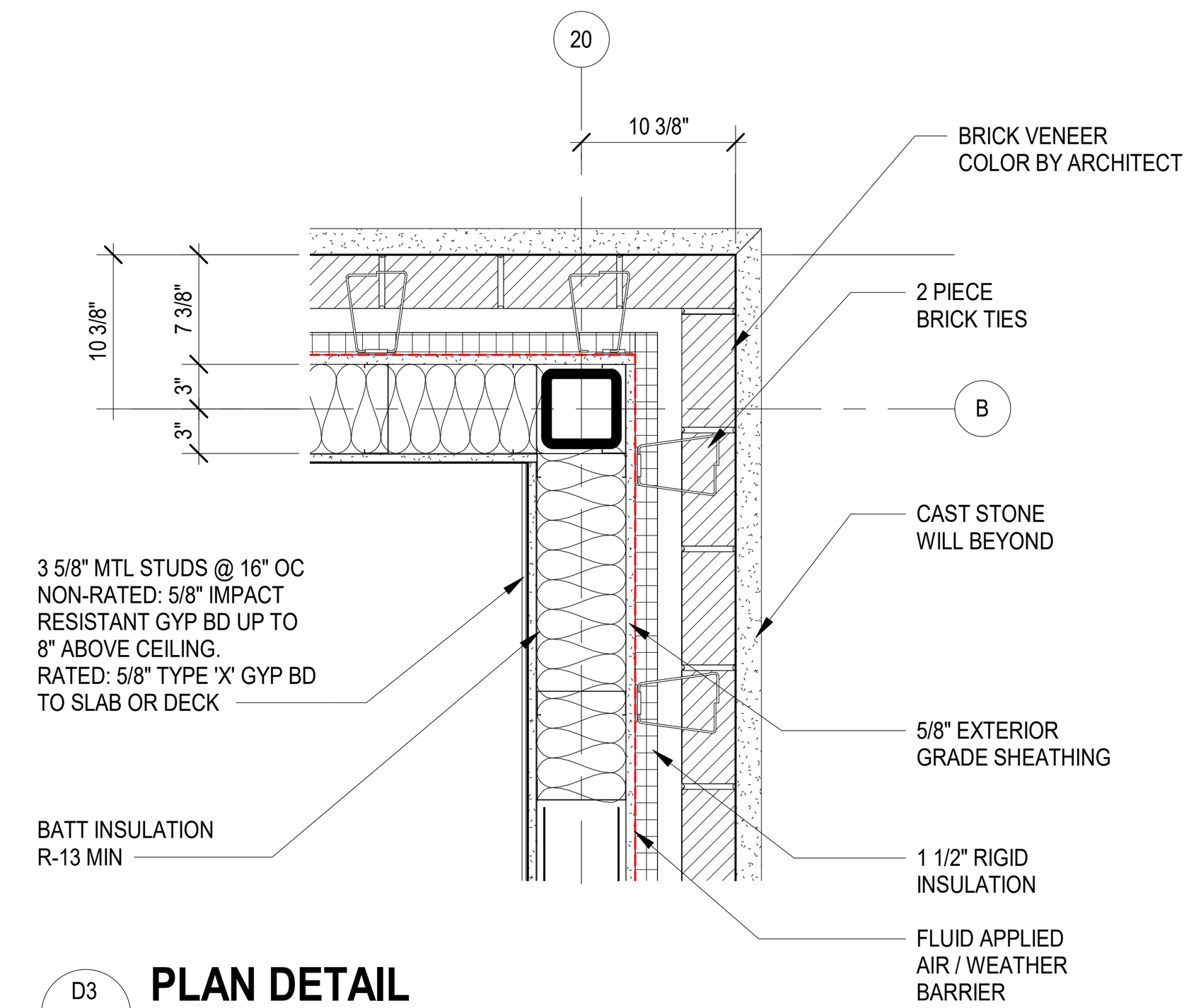
A601



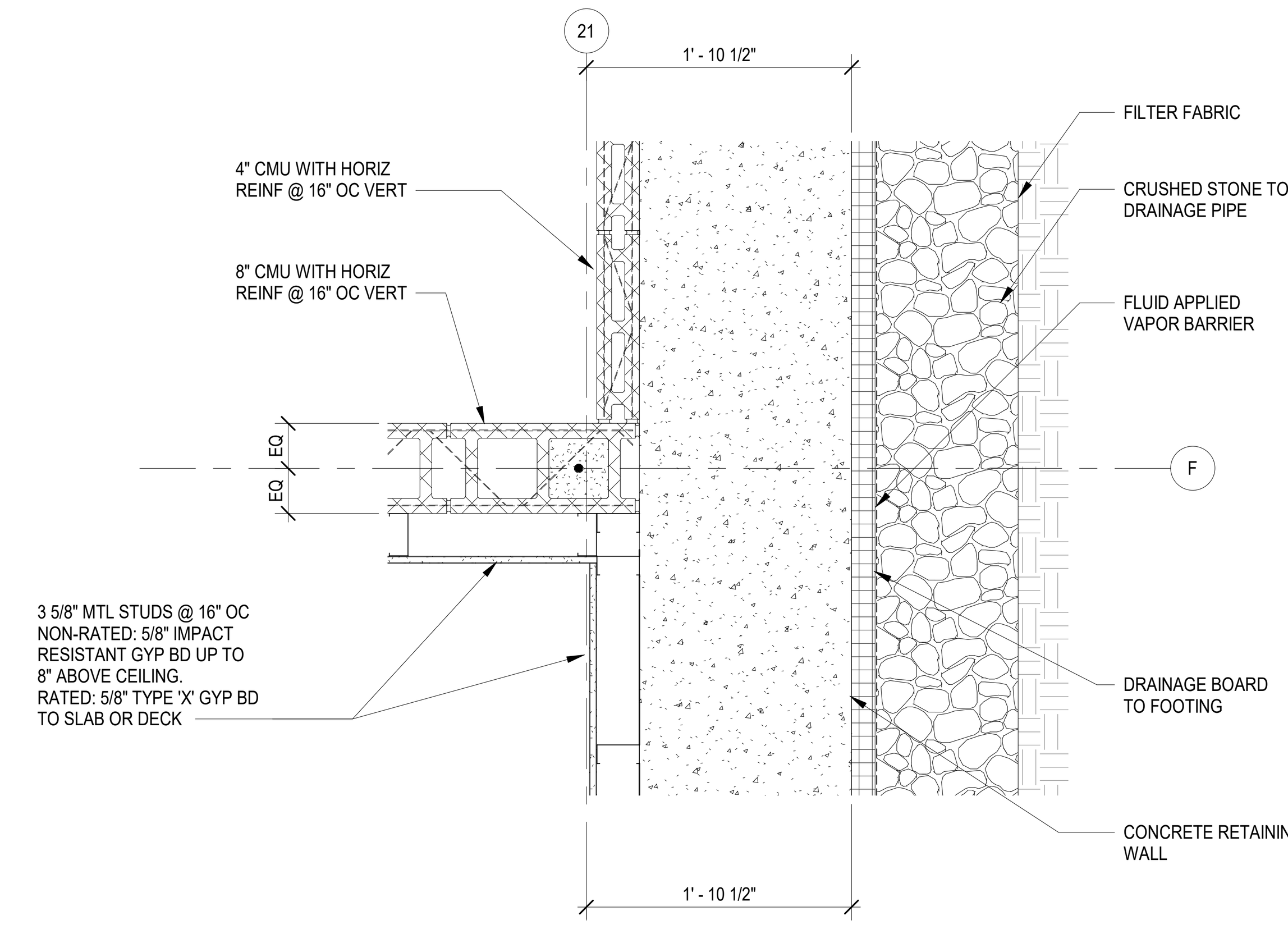
D1 A602 **PLAN DETAIL - 1100 LEVEL**
1" = 1'-0"



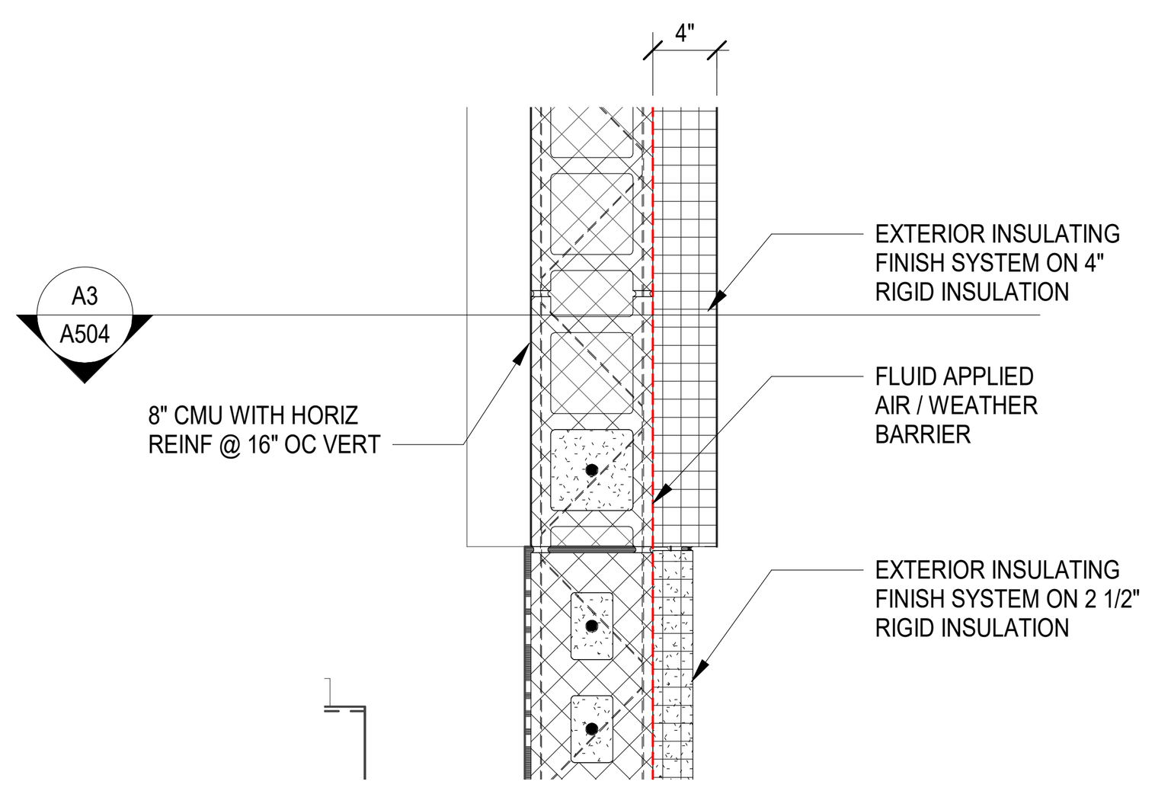
D2 A602 **PLAN DETAIL - 1000 LEVEL**
1" = 1'-0"



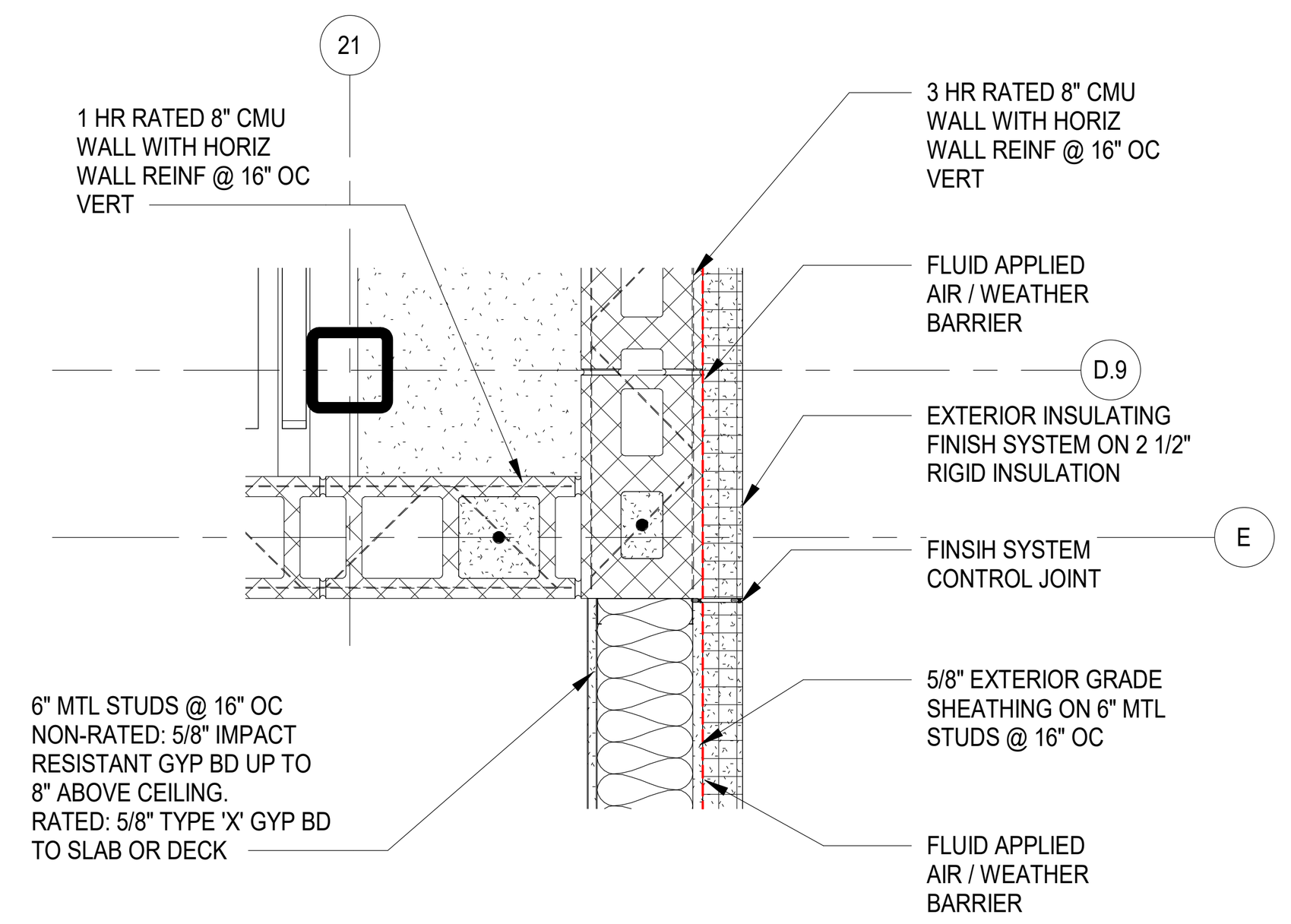
D3 A602 **PLAN DETAIL**
1" = 1'-0"



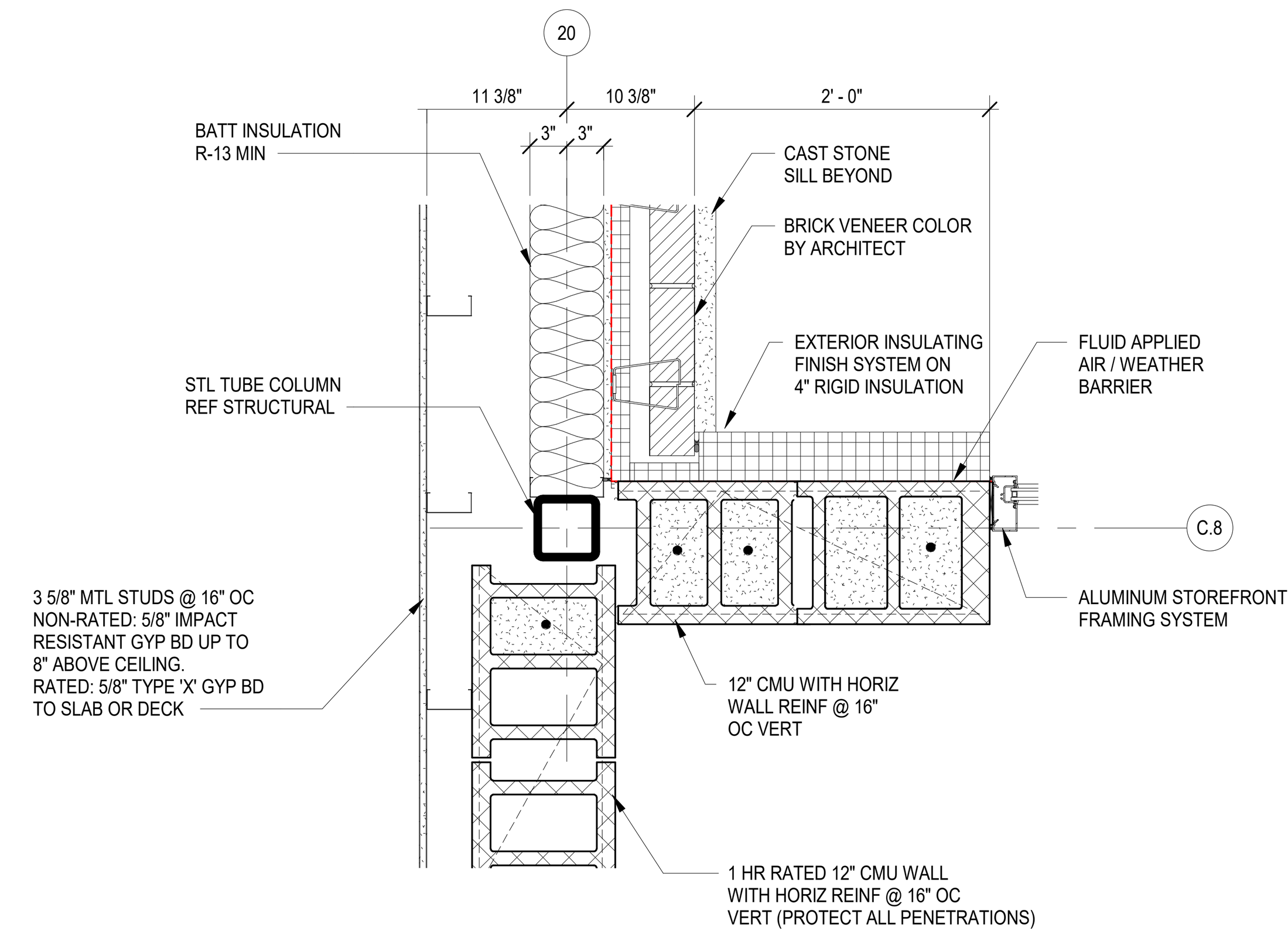
D4 A602 **PLAN DETAIL**
1" = 1'-0"



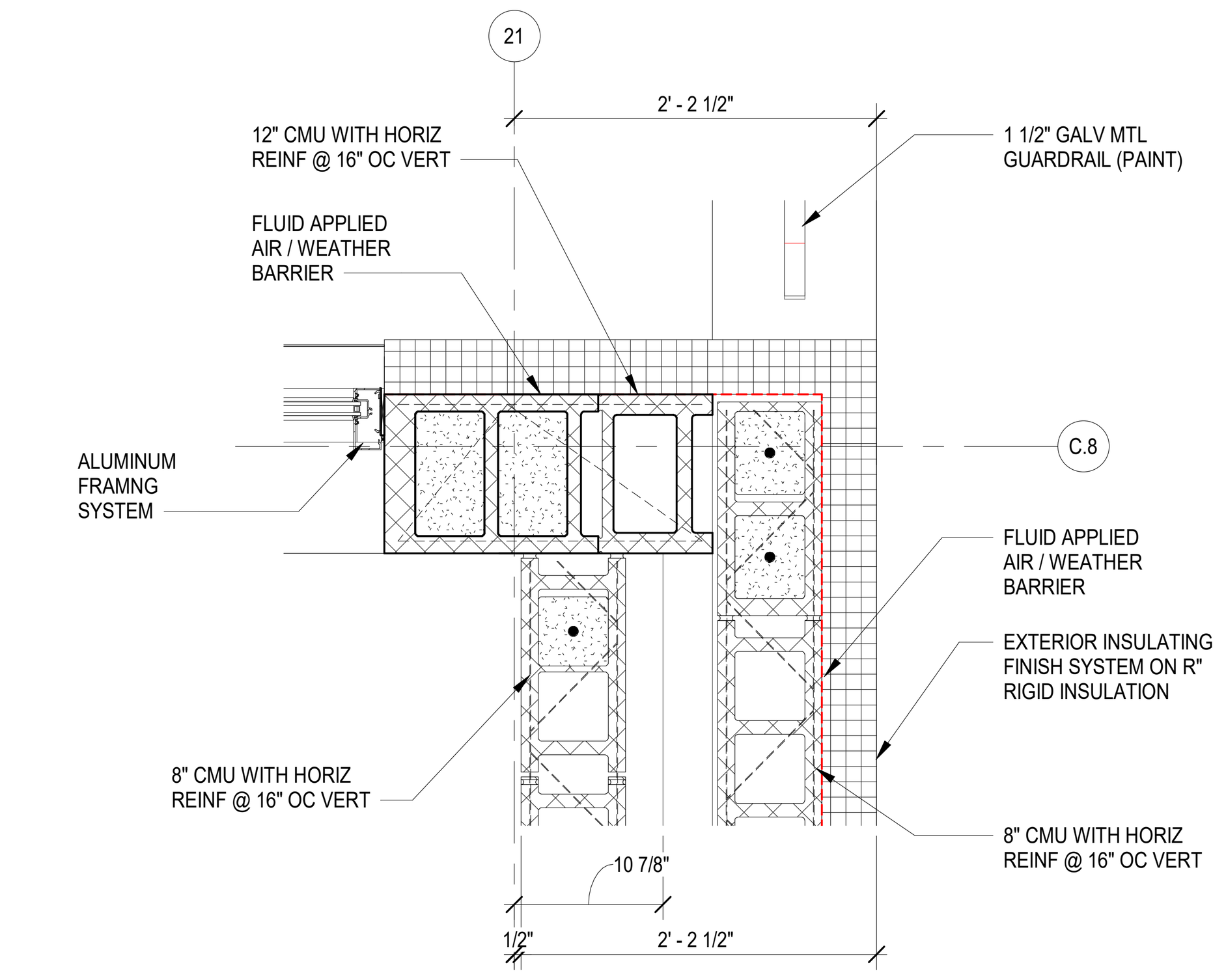
C1 A602 **PLAN DETAIL1100 LEVEL**
1" = 1'-0"



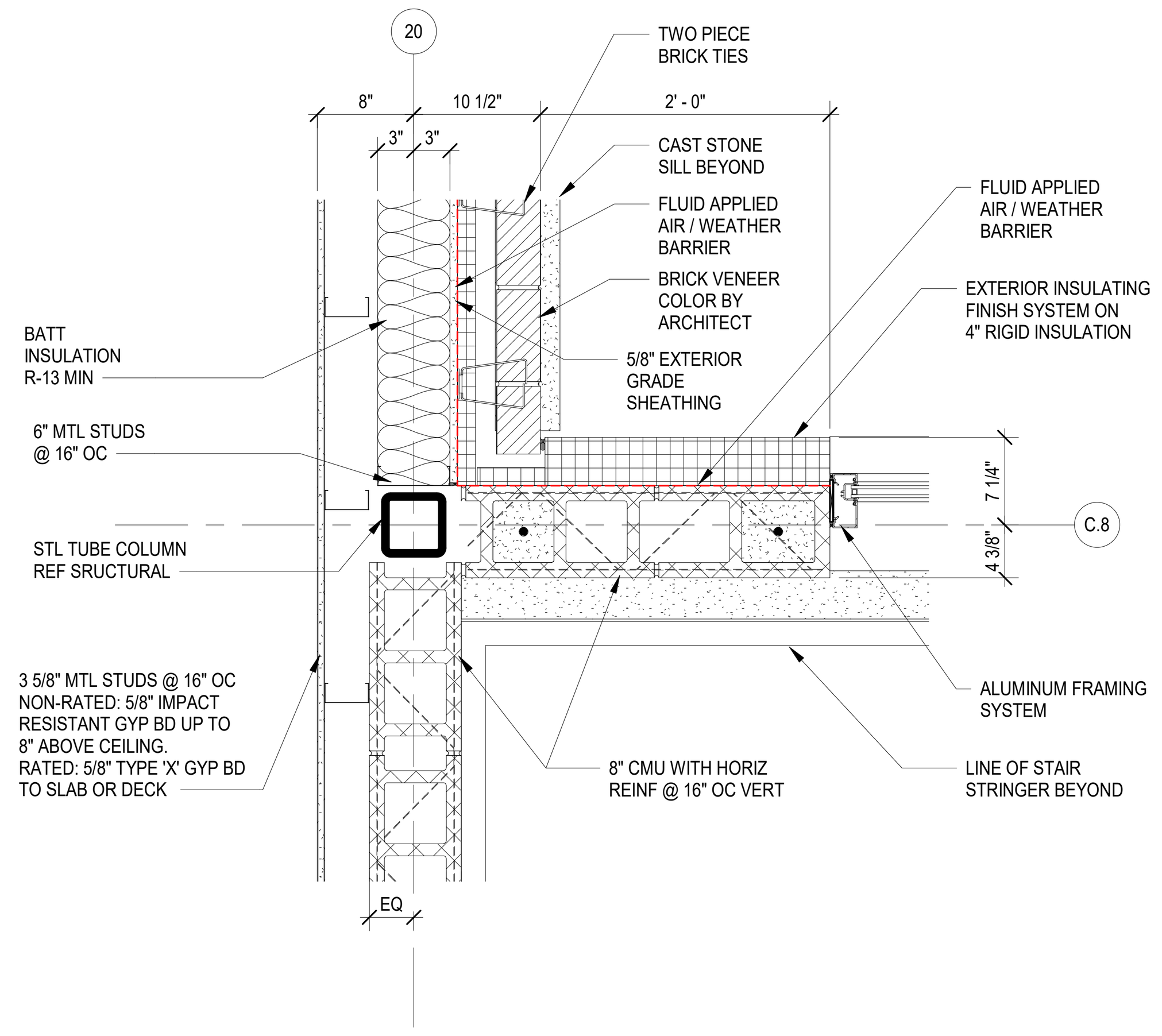
C2 A602 **PLAN DETAIL**
1" = 1'-0"



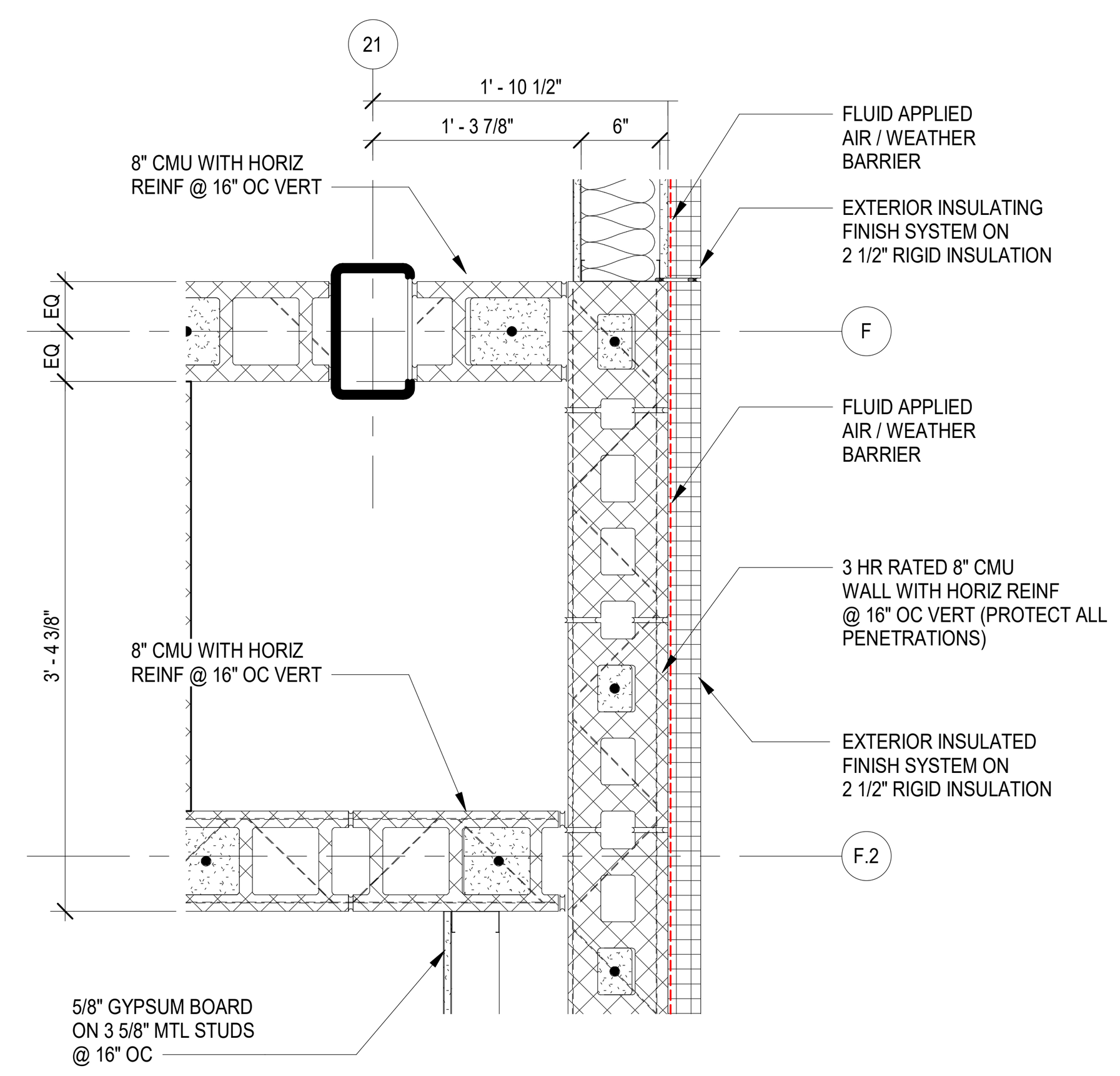
C3 A602 **PLAN DETAIL**
1" = 1'-0"



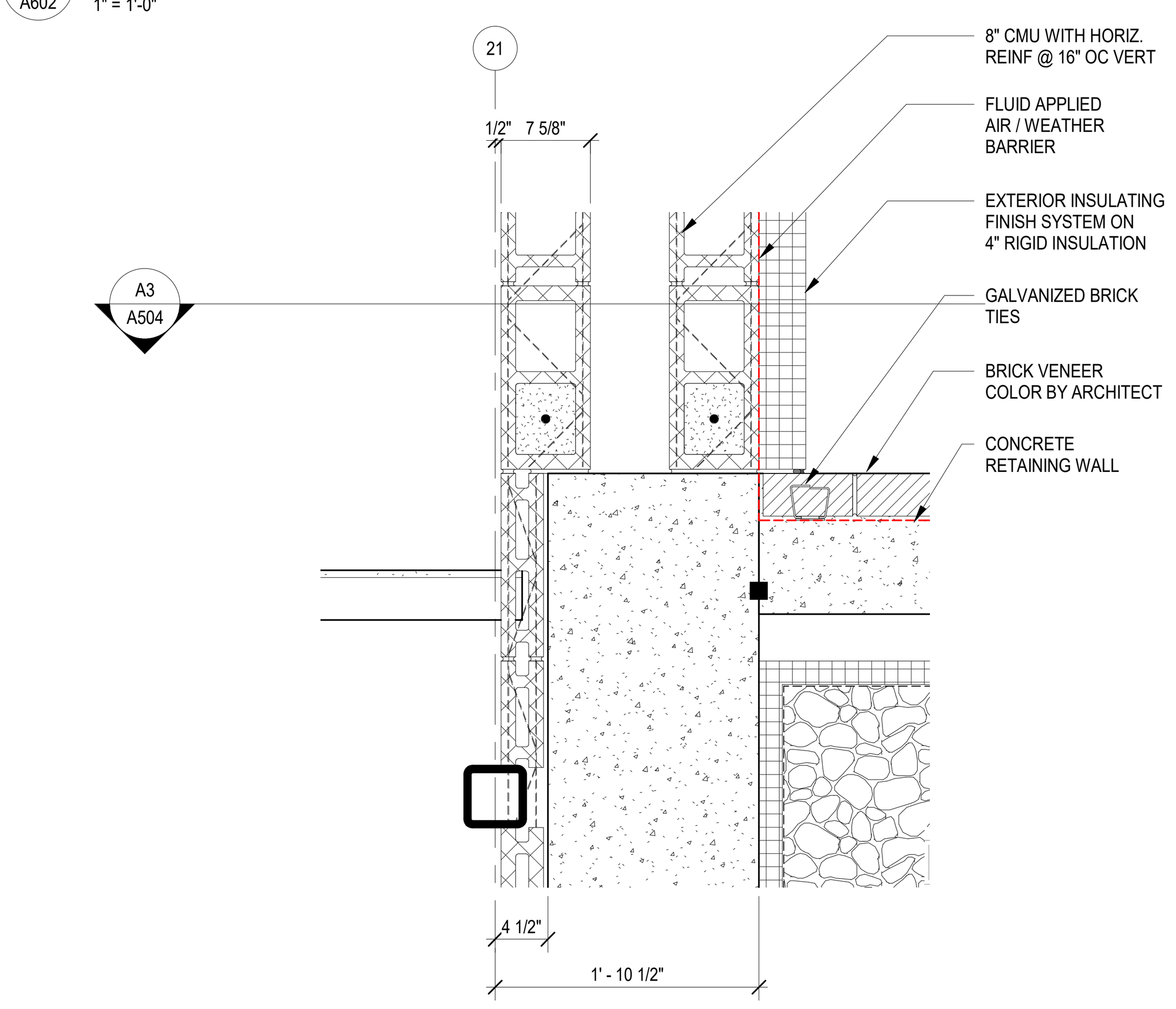
C4 A602 **PLAN DETAIL**
1" = 1'-0"



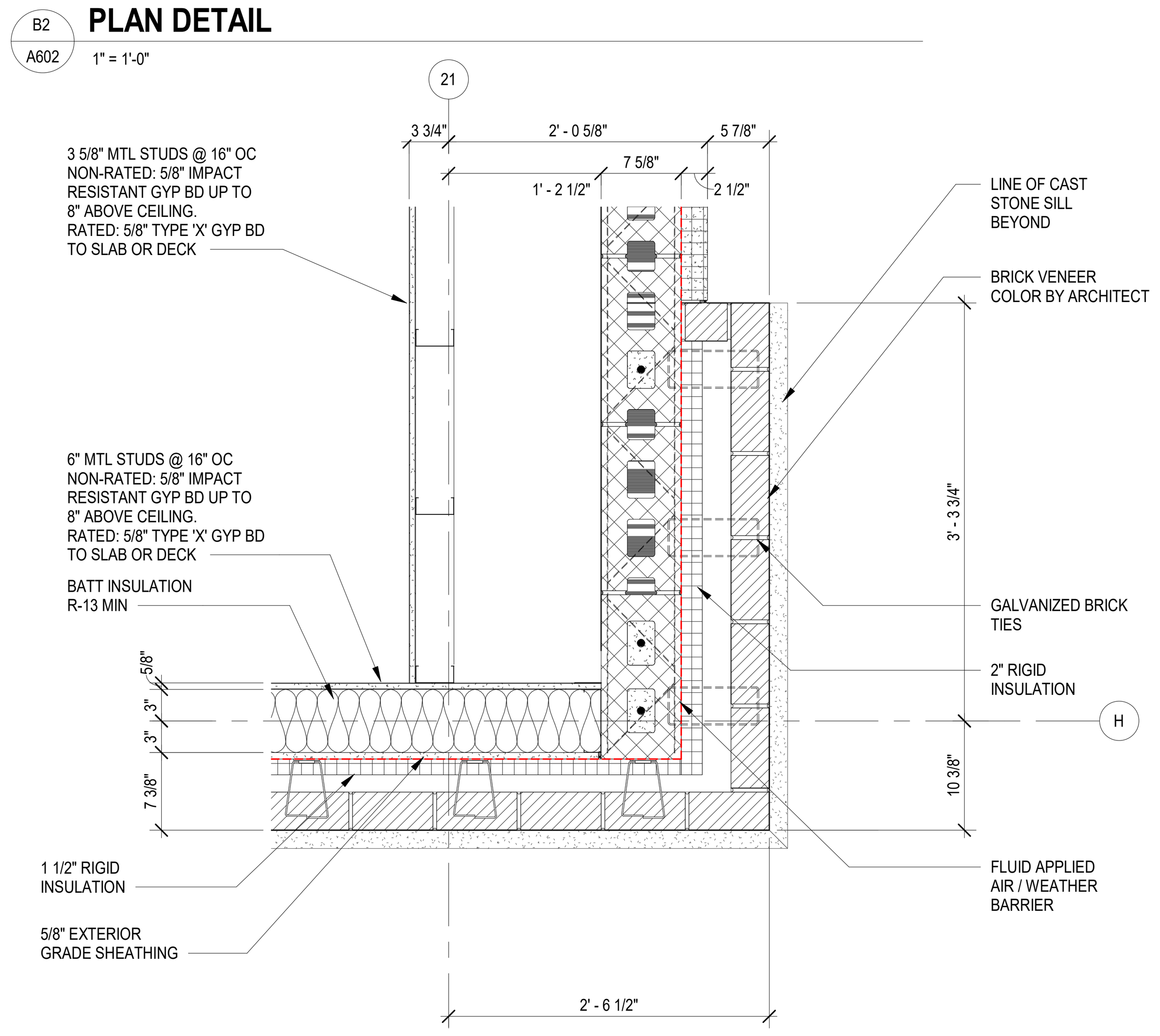
B1 A602 **PLAN DETAIL**
1" = 1'-0"



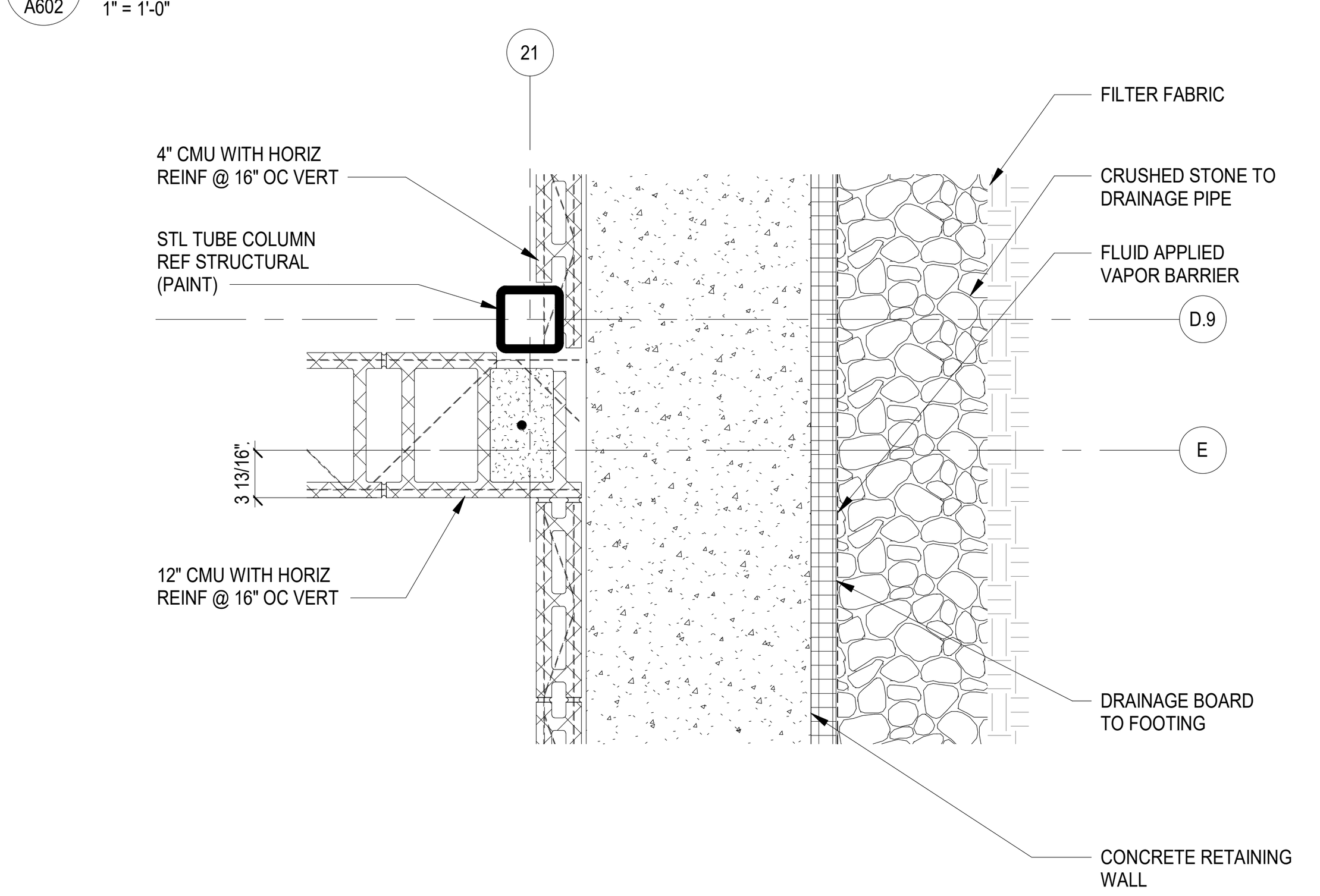
B2 A602 **PLAN DETAIL**
1" = 1'-0"



B4 A602 **PLAN DETAIL**
1" = 1'-0"



A2 A602 **PLAN DETAIL**
1" = 1'-0"



A4 A602 **PLAN DETAIL**
1" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

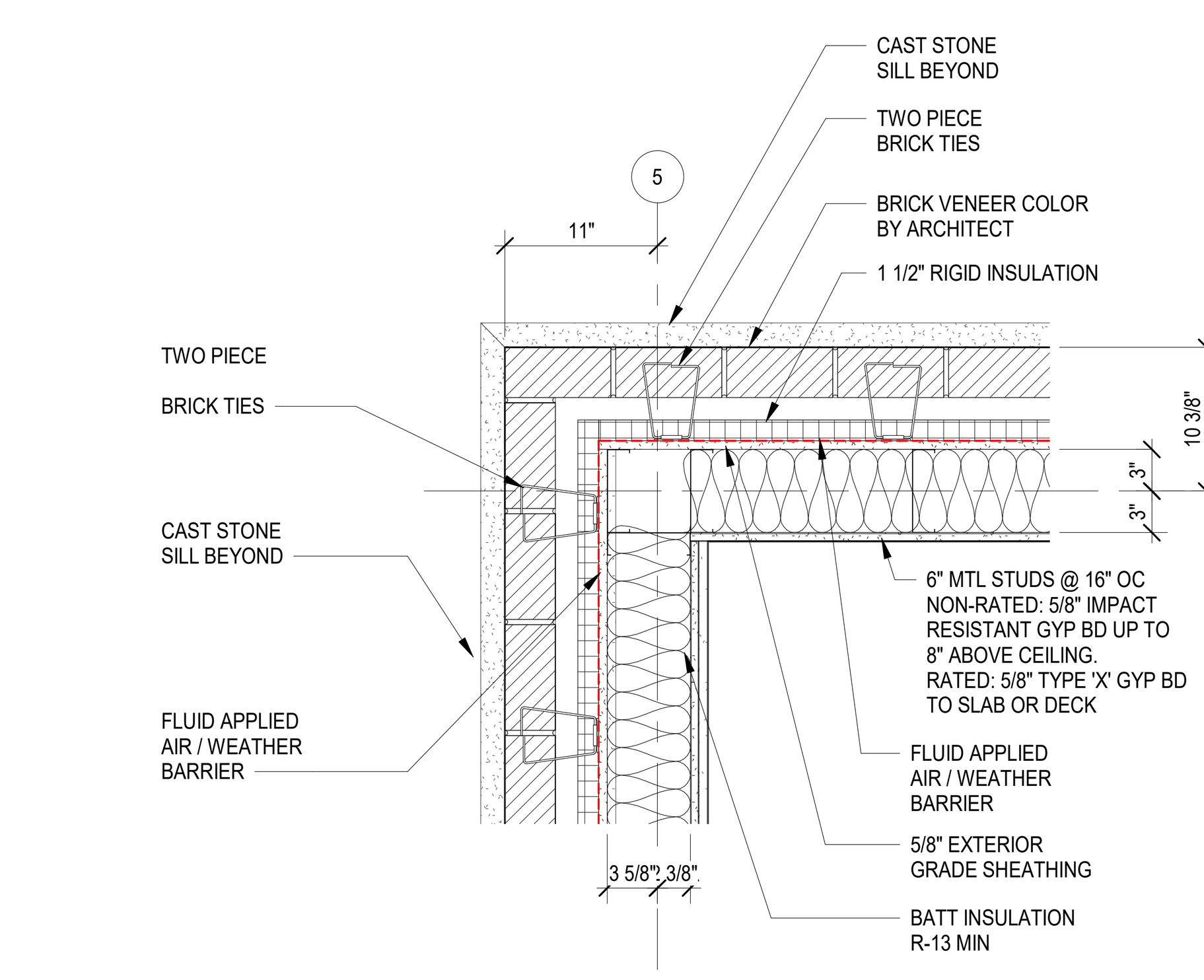
PRINCIPAL IN CHARGE:	MLC
PROJECT ARCHITECT:	RPC
DRAWN BY:	DC

SHEET TITLE:
PLAN DETAILS - AREAS A/B - LEVELS 1000, 1100 AND 1200

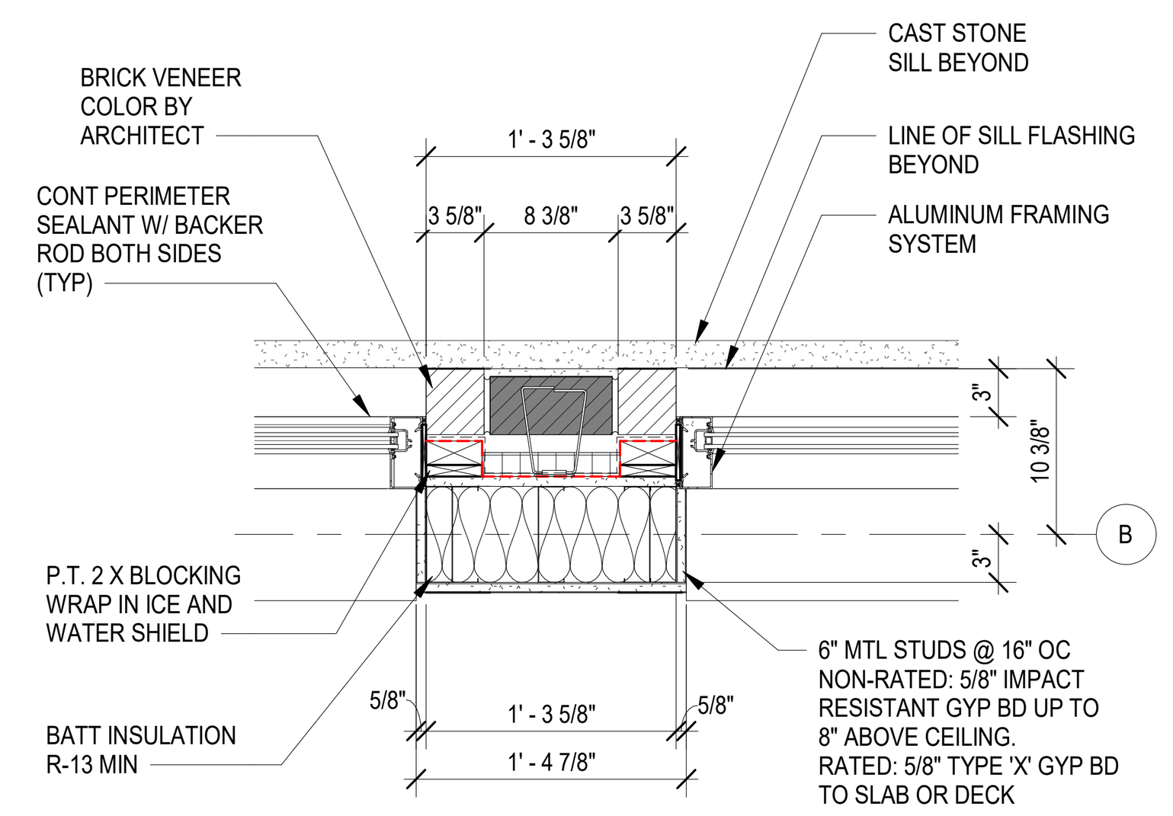
SHEET NO. PROJ. NO. 020420.00

A602

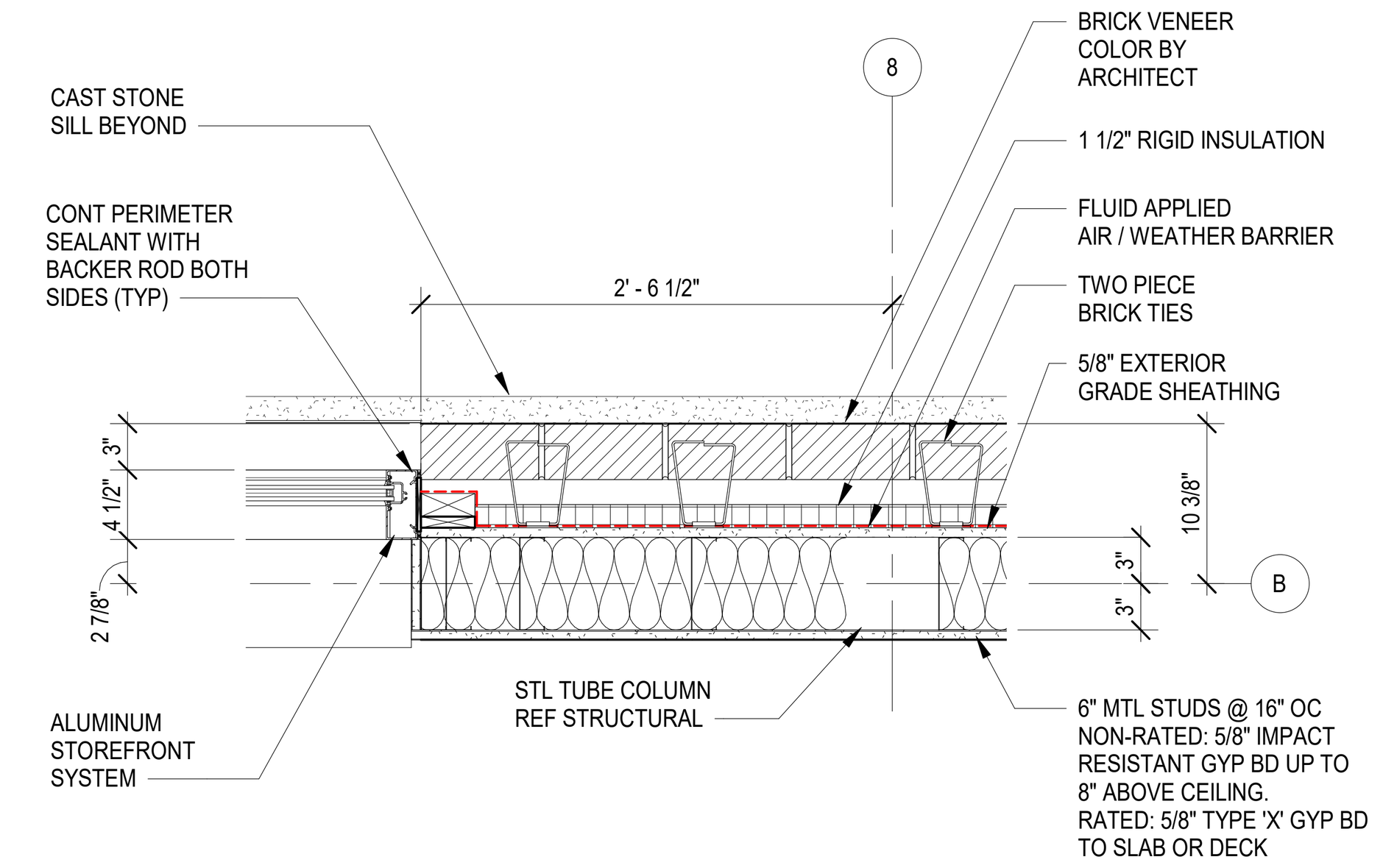
1 2 3 4 5



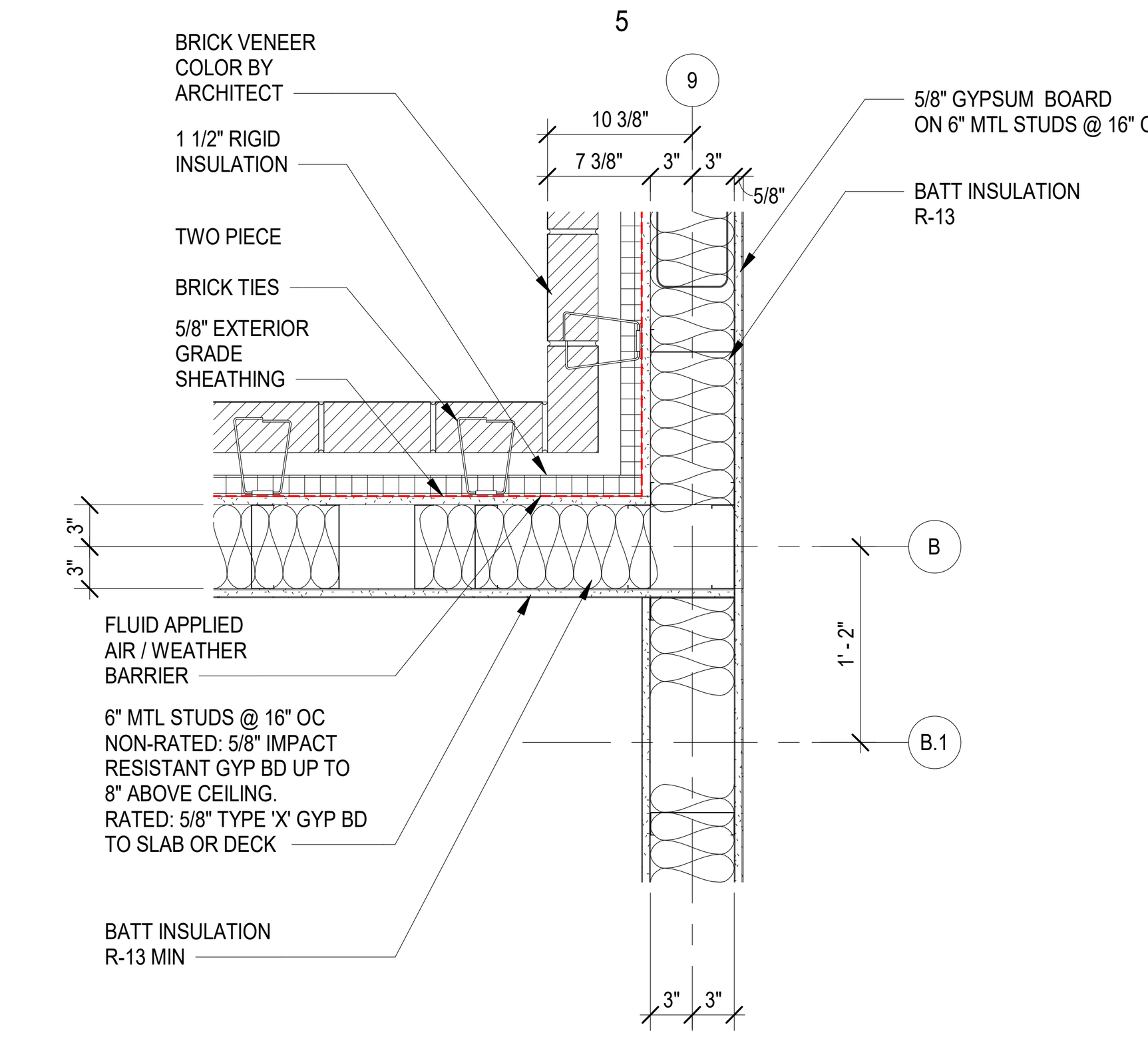
D1 **PLAN DETAIL**
A603 1" = 1'-0"



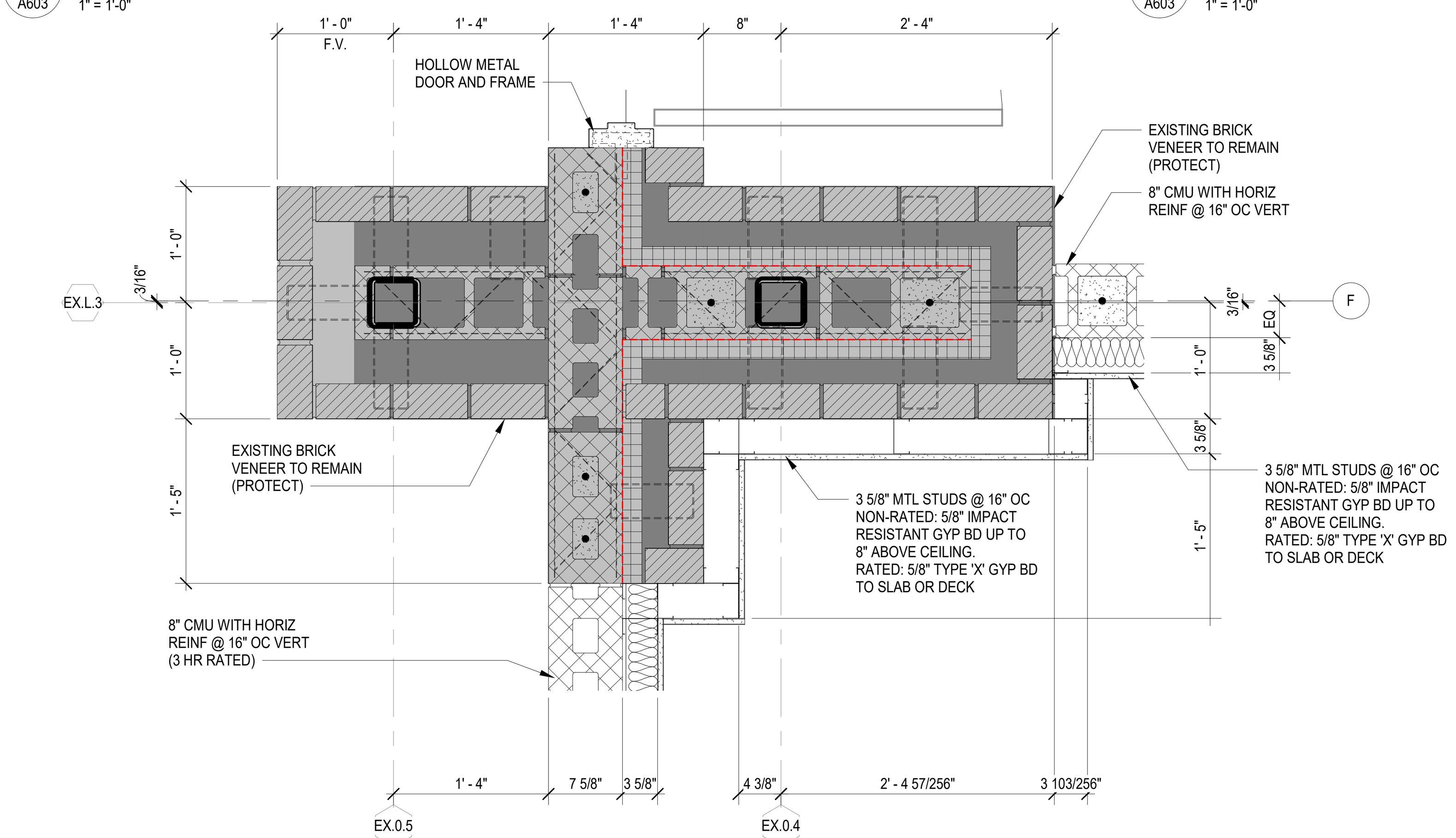
D2 **PLAN DETAIL**
A603 1" = 1'-0"



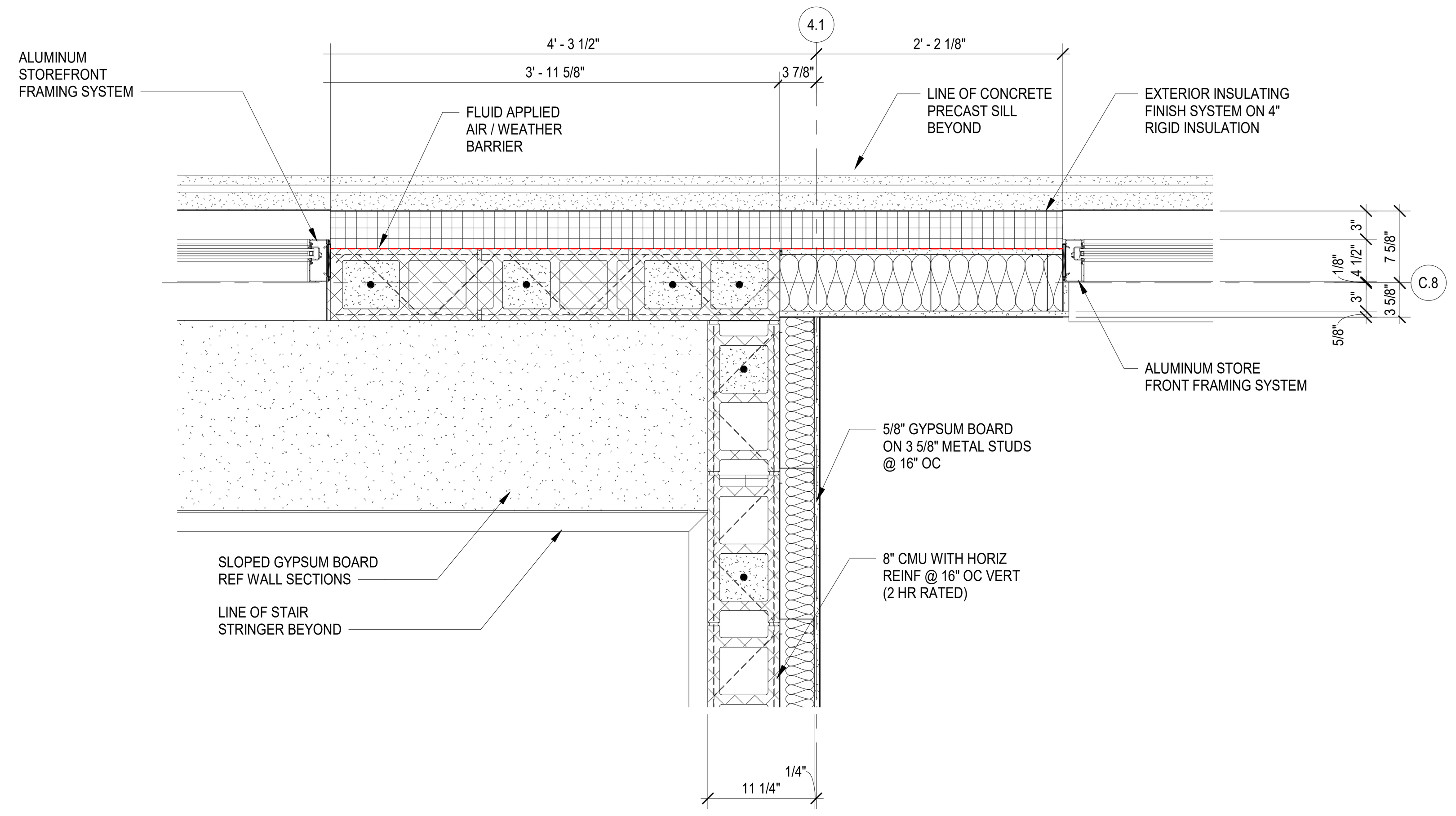
D3 **PLAN DETAIL**
A603 1" = 1'-0"



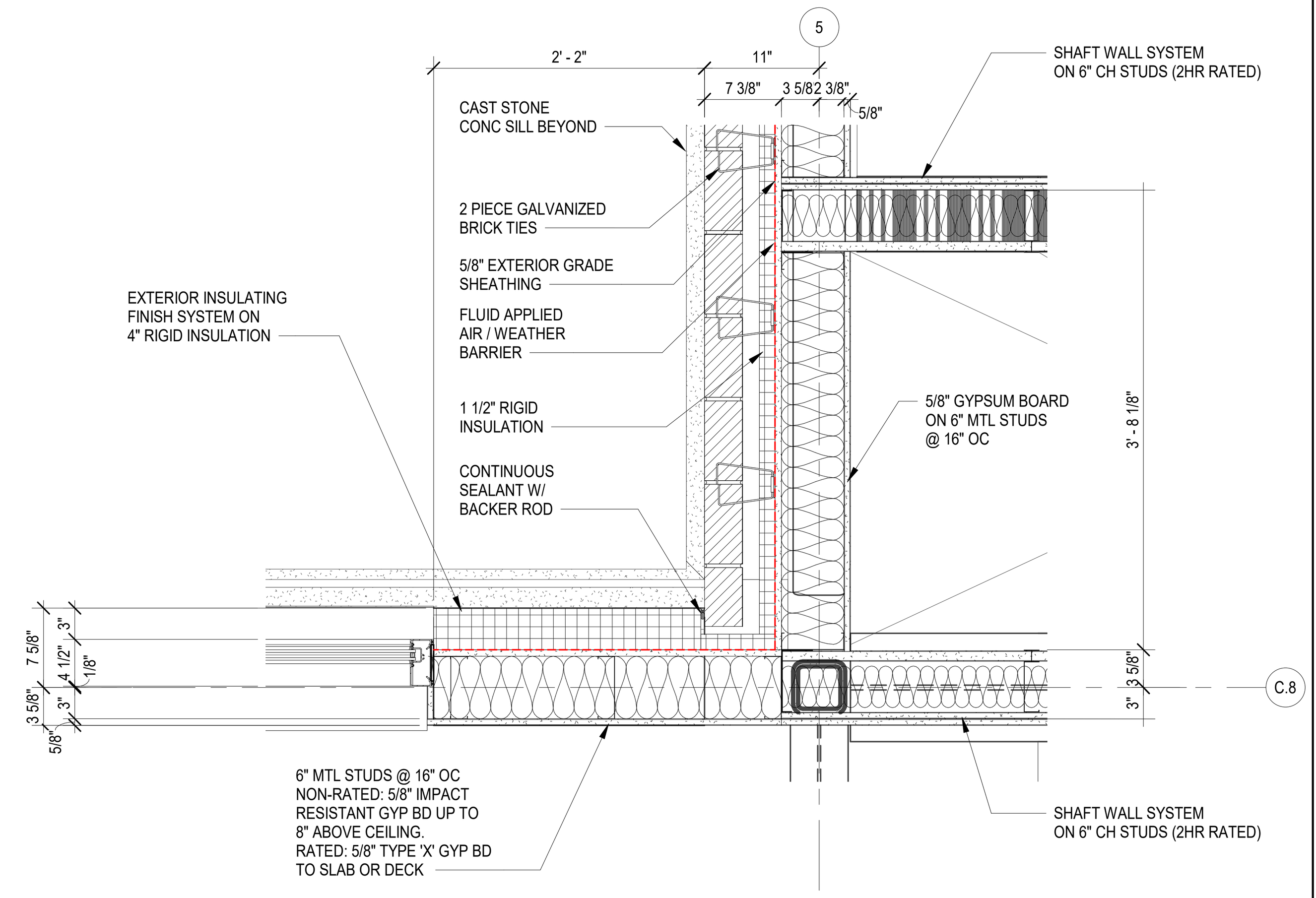
D4 **PLAN DETAIL**
A603 1" = 1'-0"



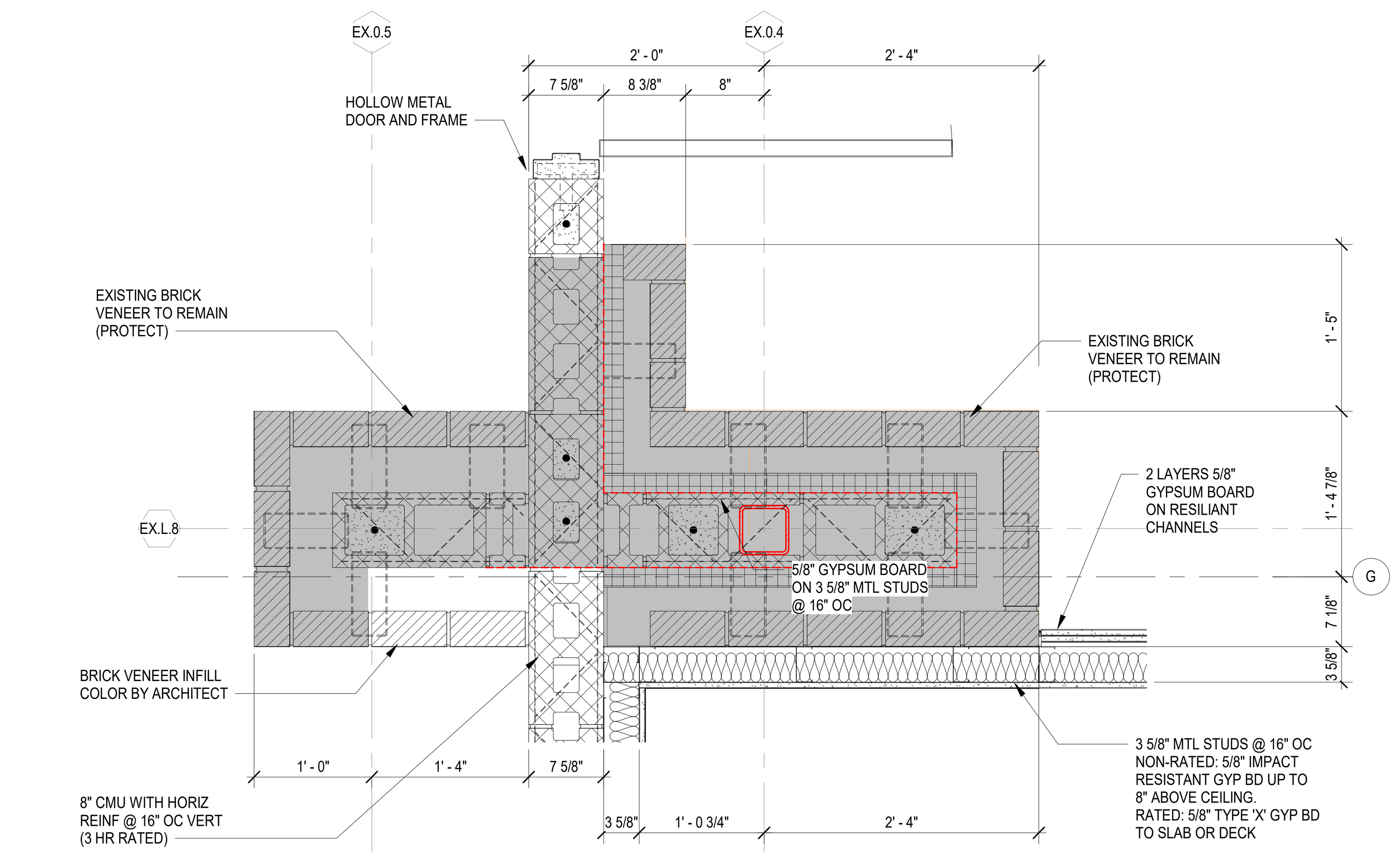
C1 **PLAN DETAIL**
A603 1" = 1'-0"



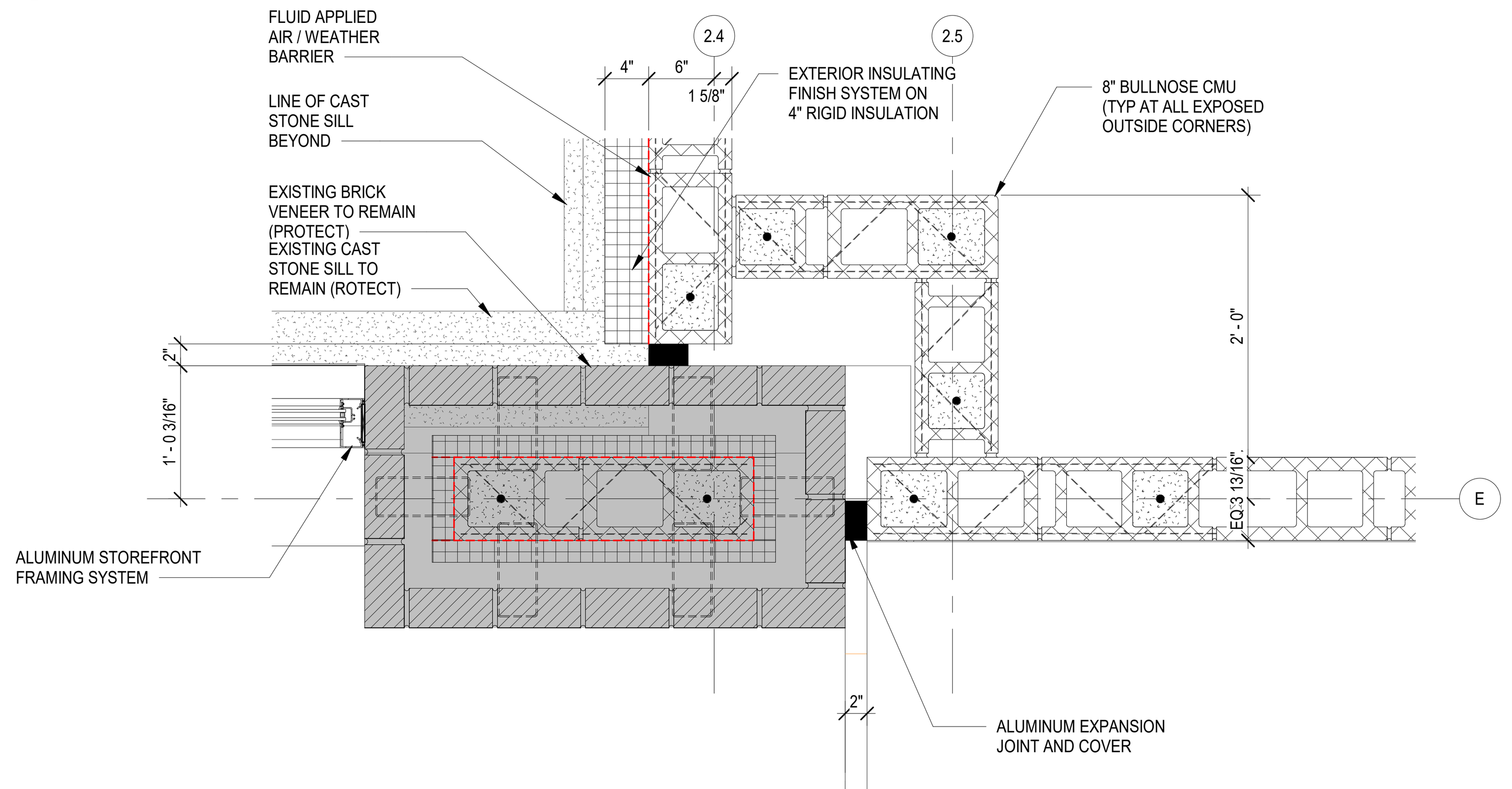
C2 **PLAN DETAIL**
A603 1" = 1'-0"



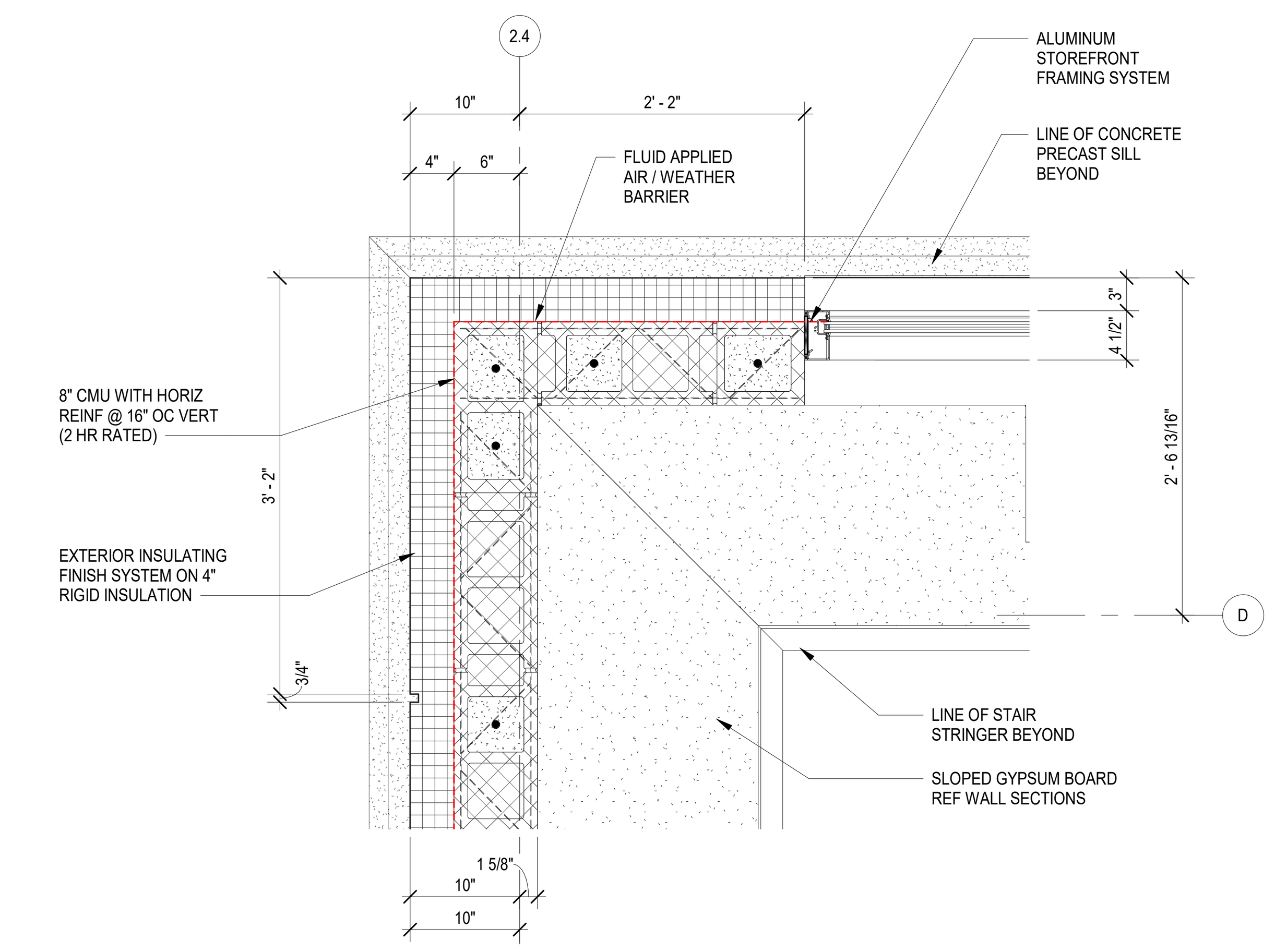
C4 **PLAN DETAIL**
A603 1" = 1'-0"



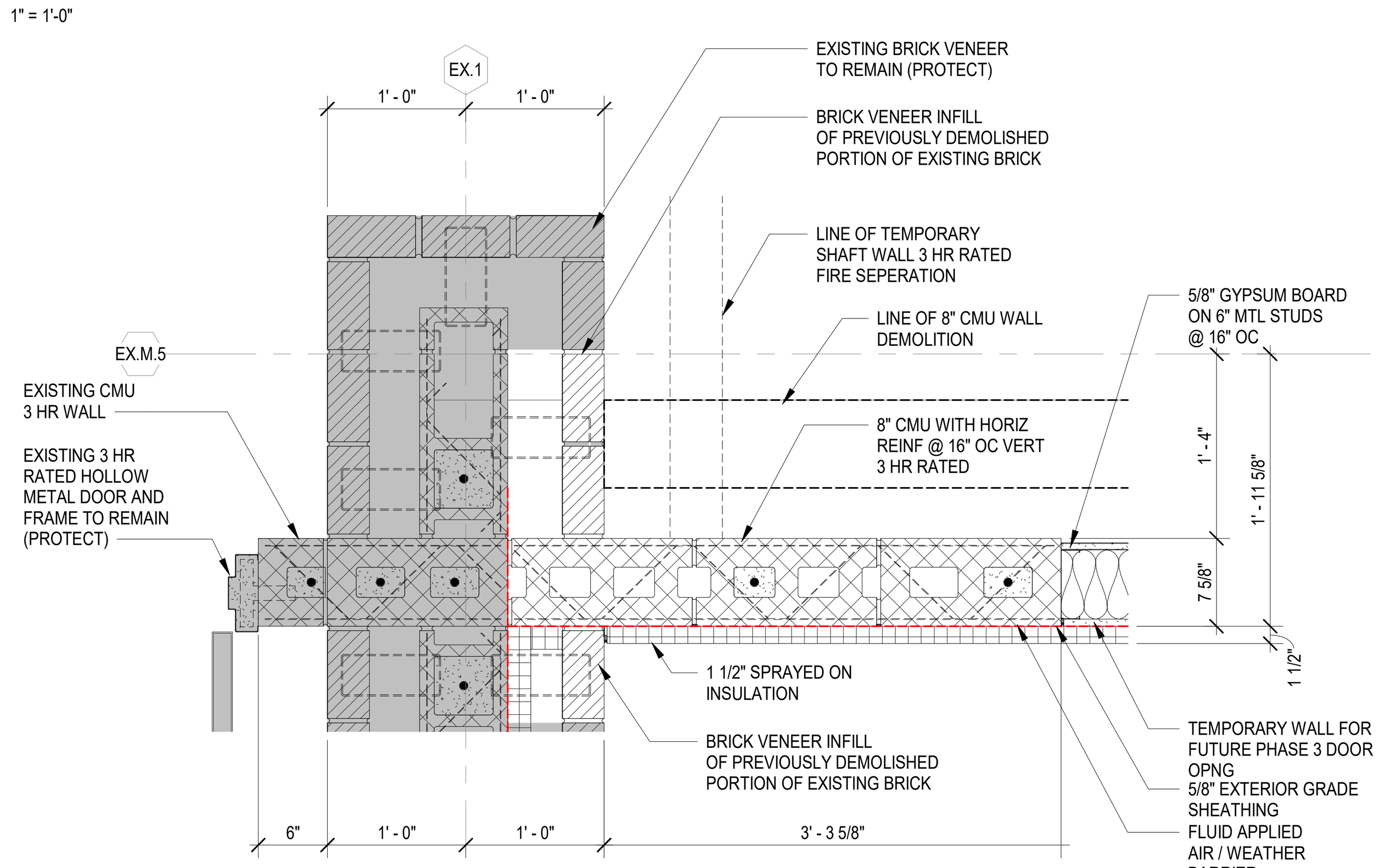
B1 **PLAN DETAIL**
A603 1" = 1'-0"



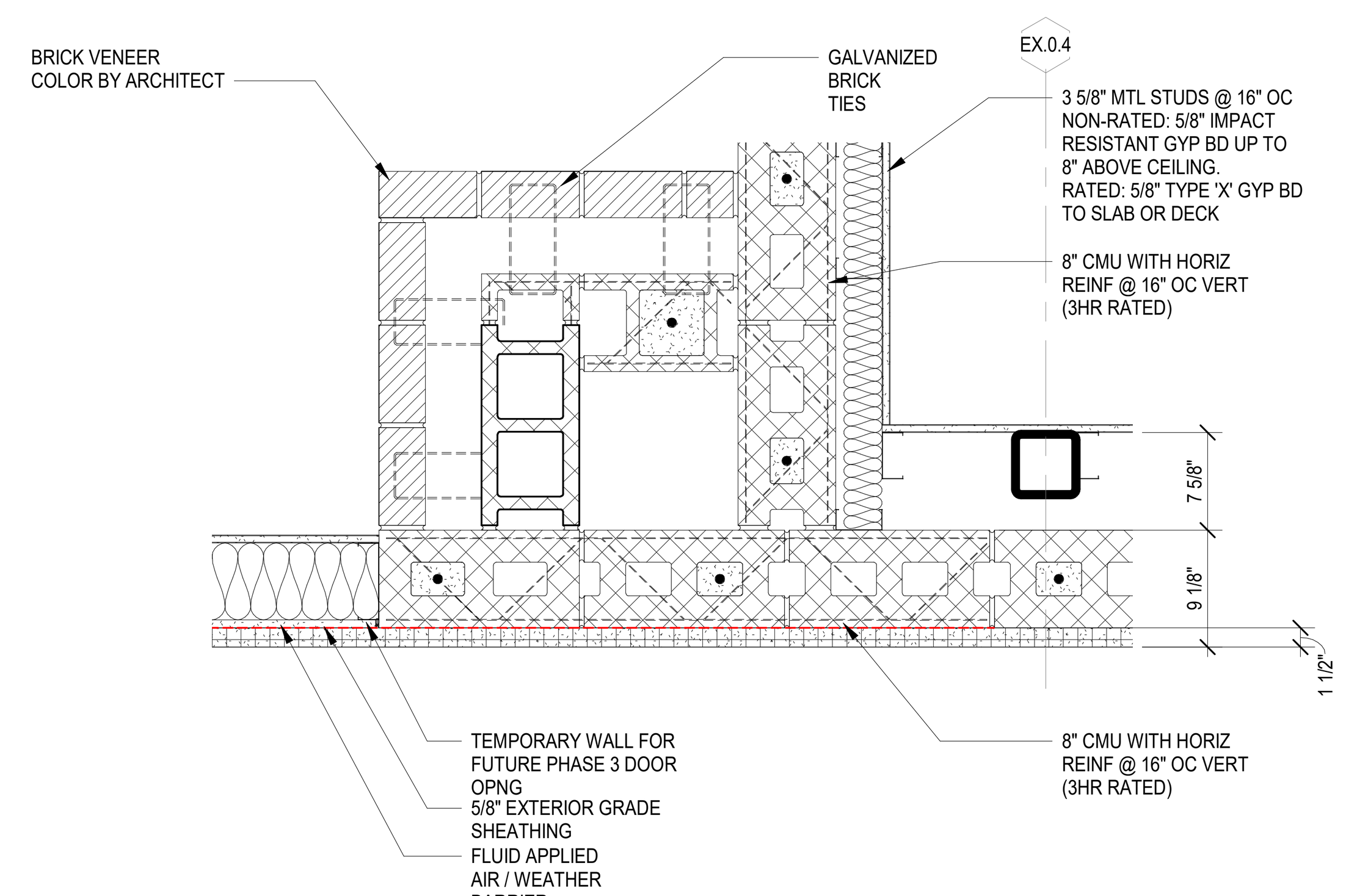
B2 **PLAN DETAIL**
A603 1" = 1'-0"



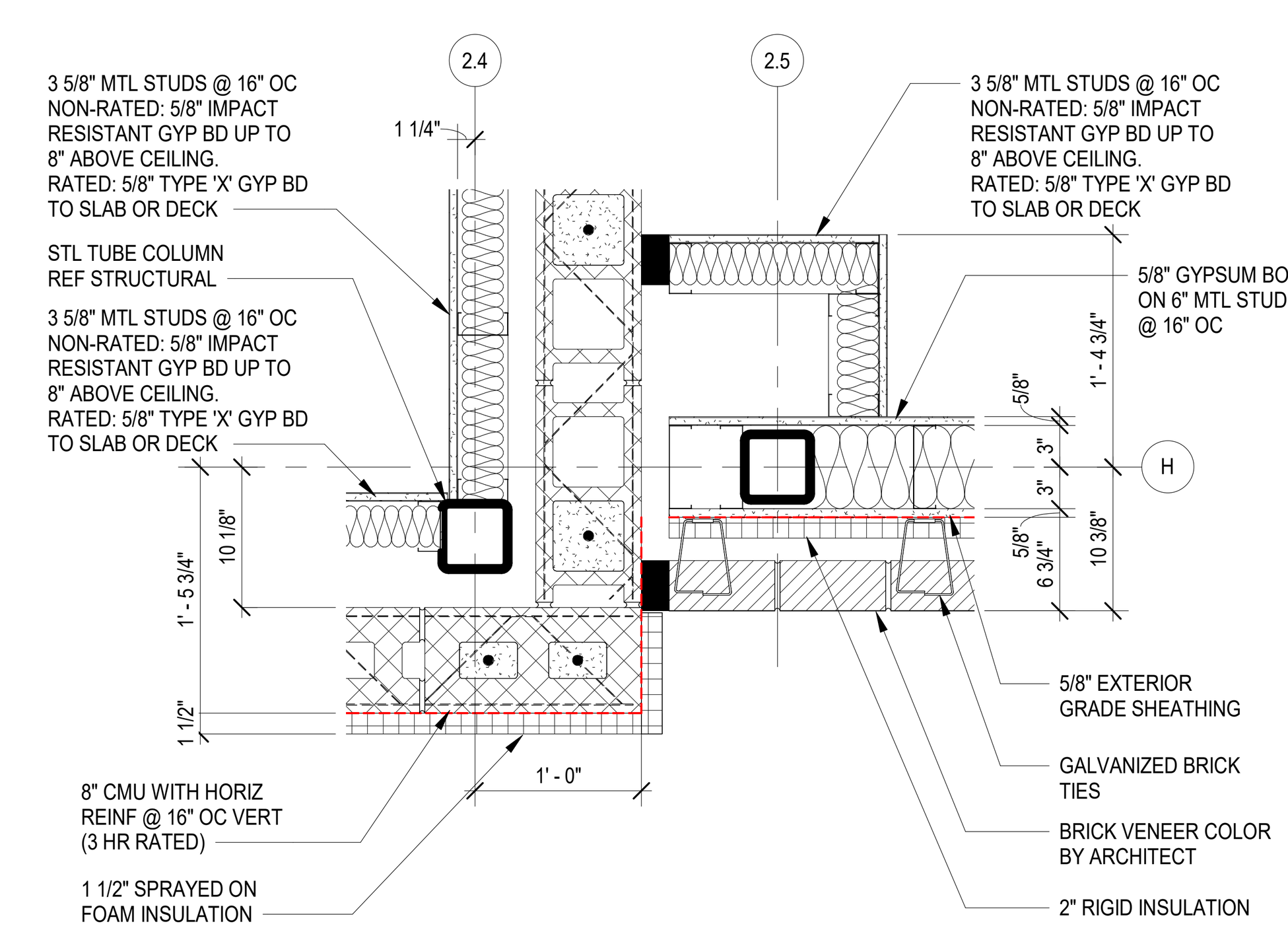
B4 **PLAN DETAIL**
A603 1" = 1'-0"



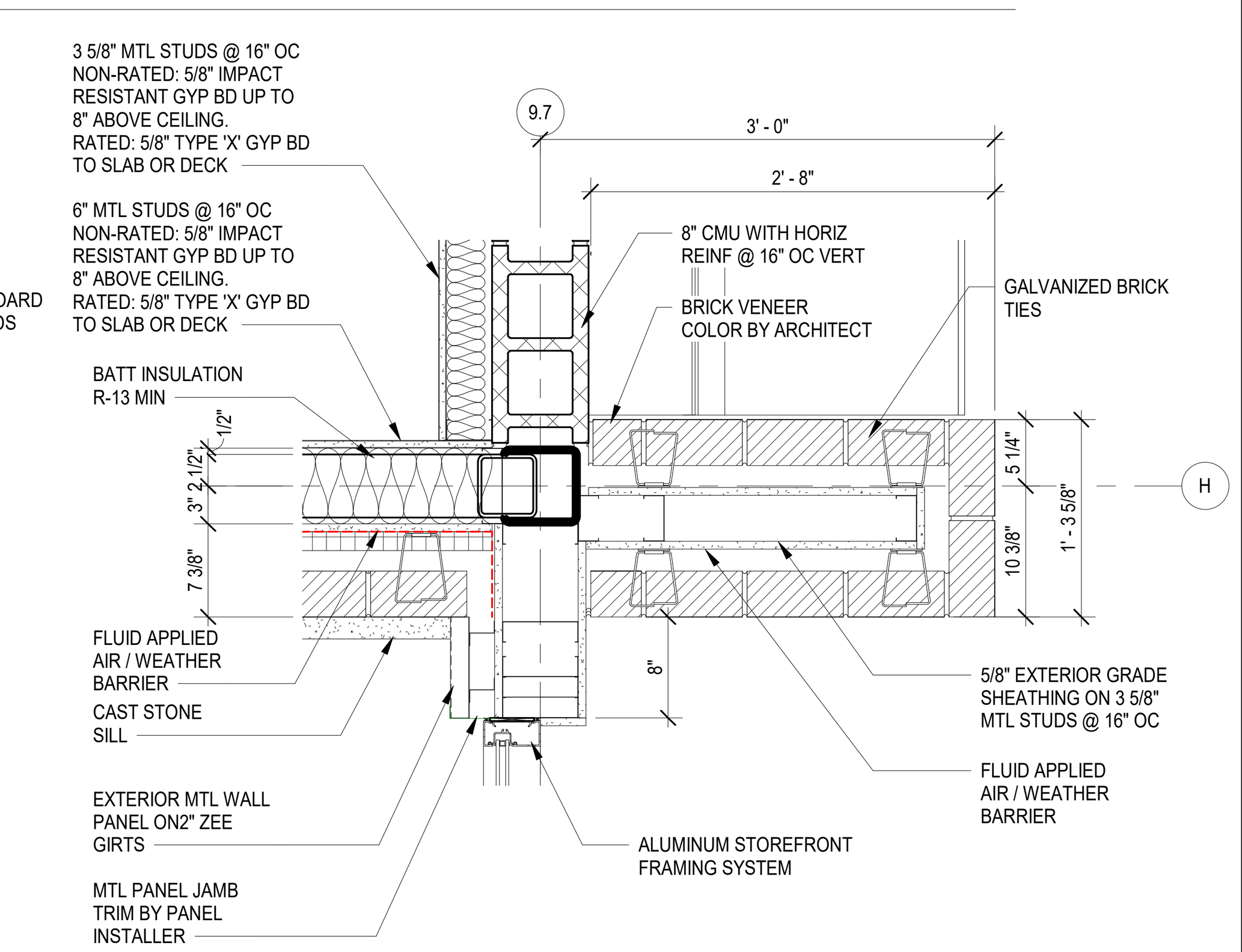
A1 **PLAN DETAIL**
A603 1" = 1'-0"



A2 **PLAN DETAIL**
A603 1" = 1'-0"



A3 **PLAN DETAIL**
A603 1" = 1'-0"



A4 **PLAN DETAIL**
A603 1" = 1'-0"

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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: DC

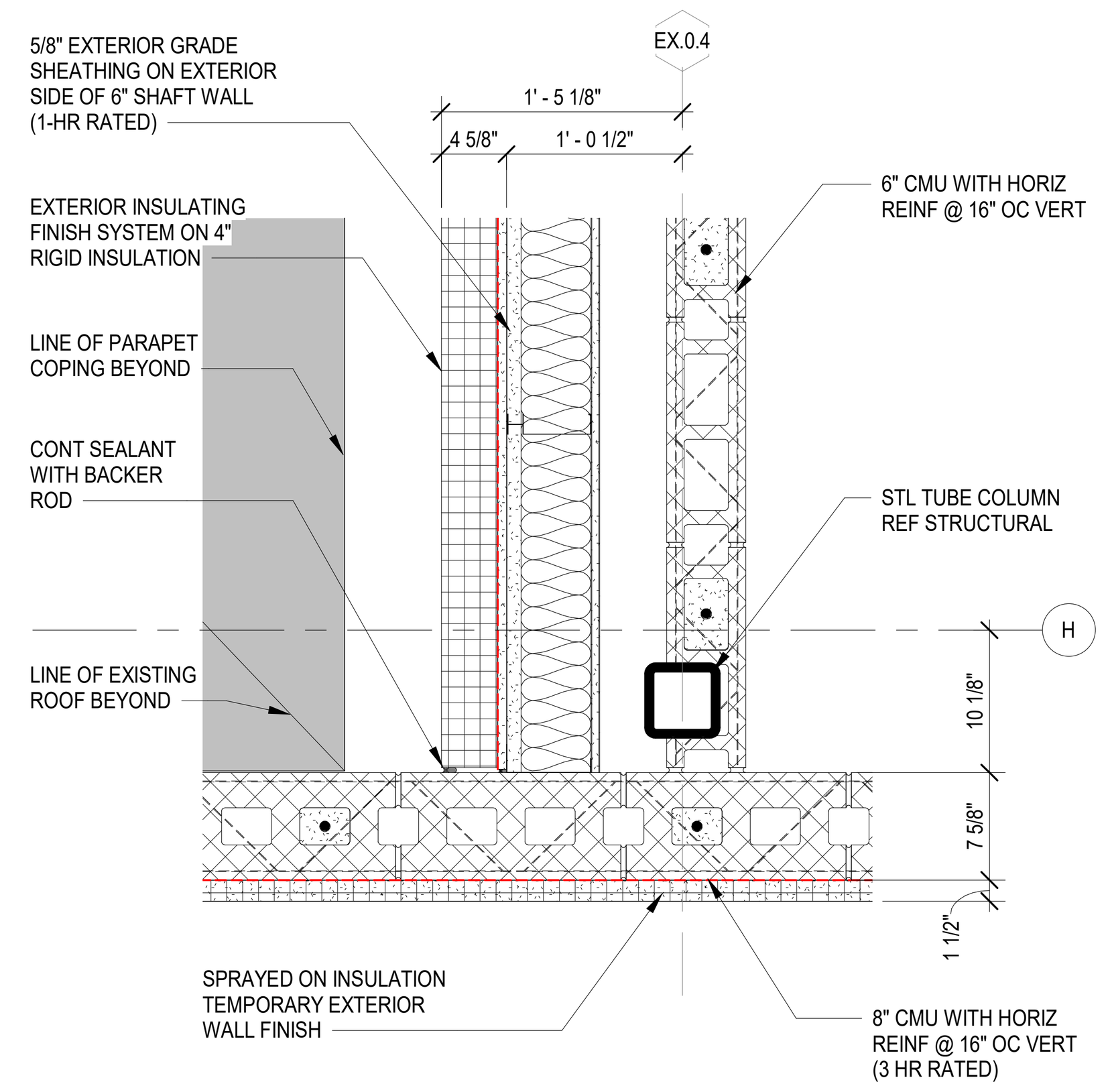
SHEET TITLE:
PLAN DETAILS - AREAS A/B - LEVELS 1100 AND 1200

SHEET NO. PROJ. NO. 020420.00

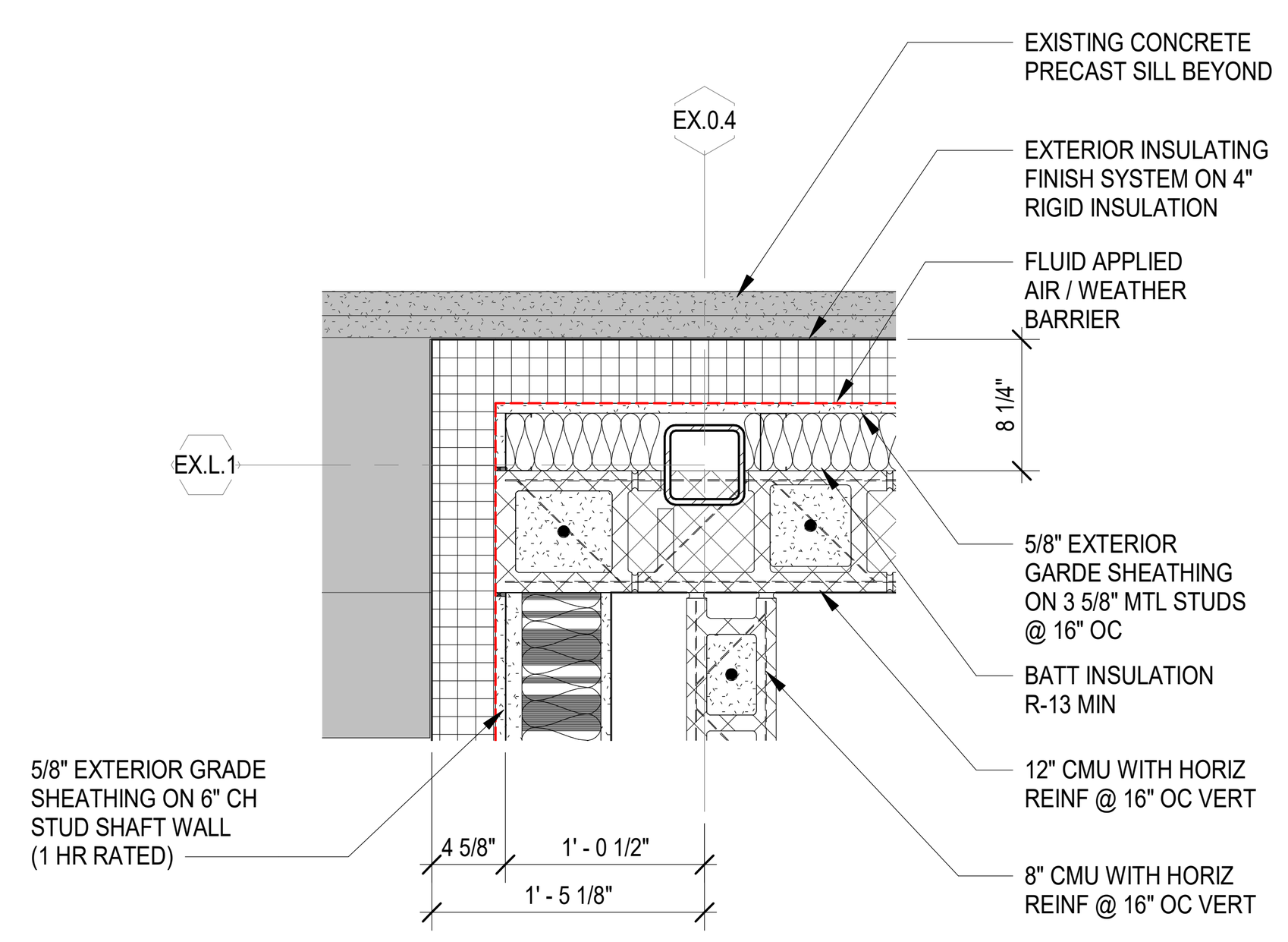
A603

1 2 3 4 5

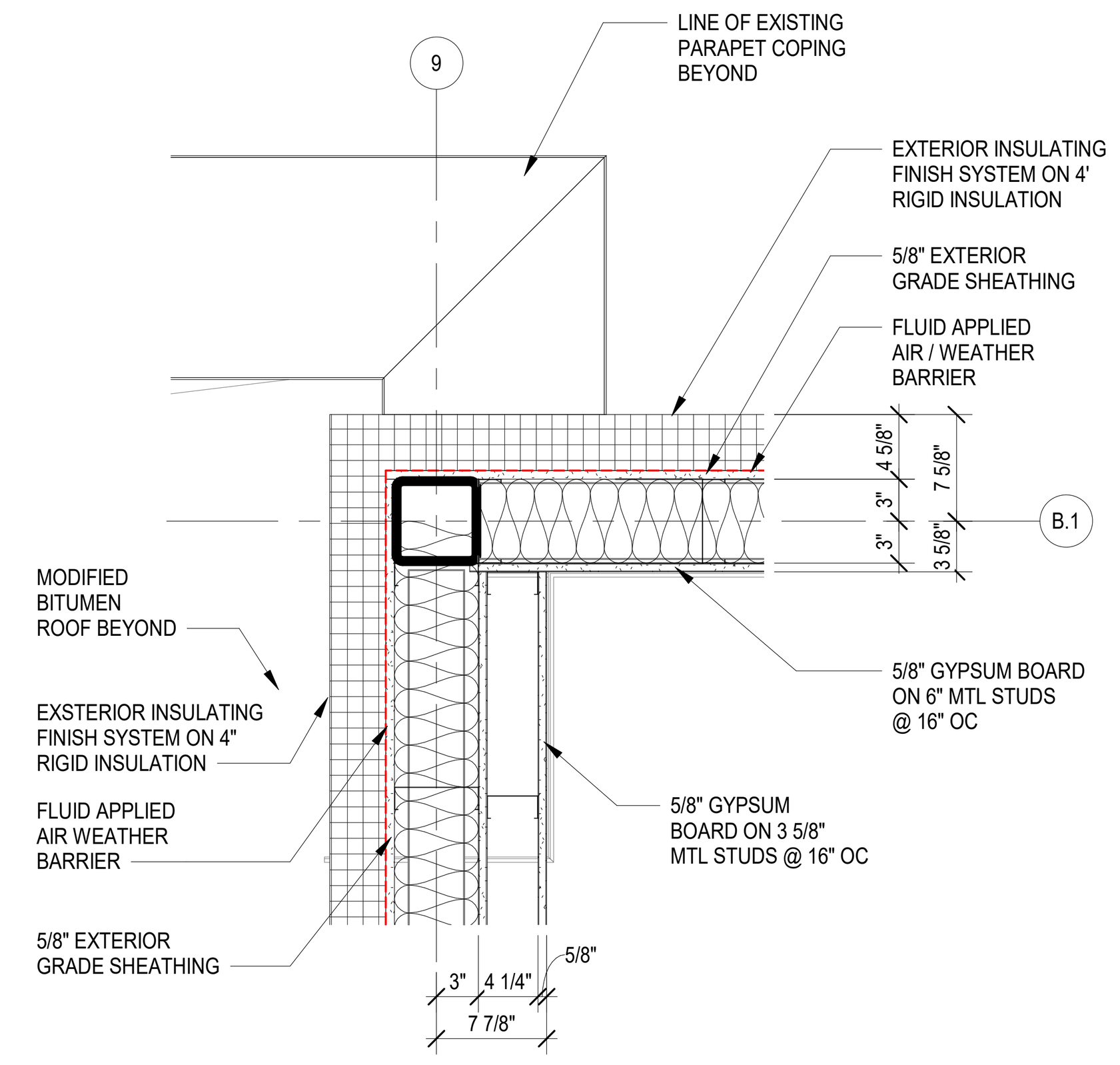
D



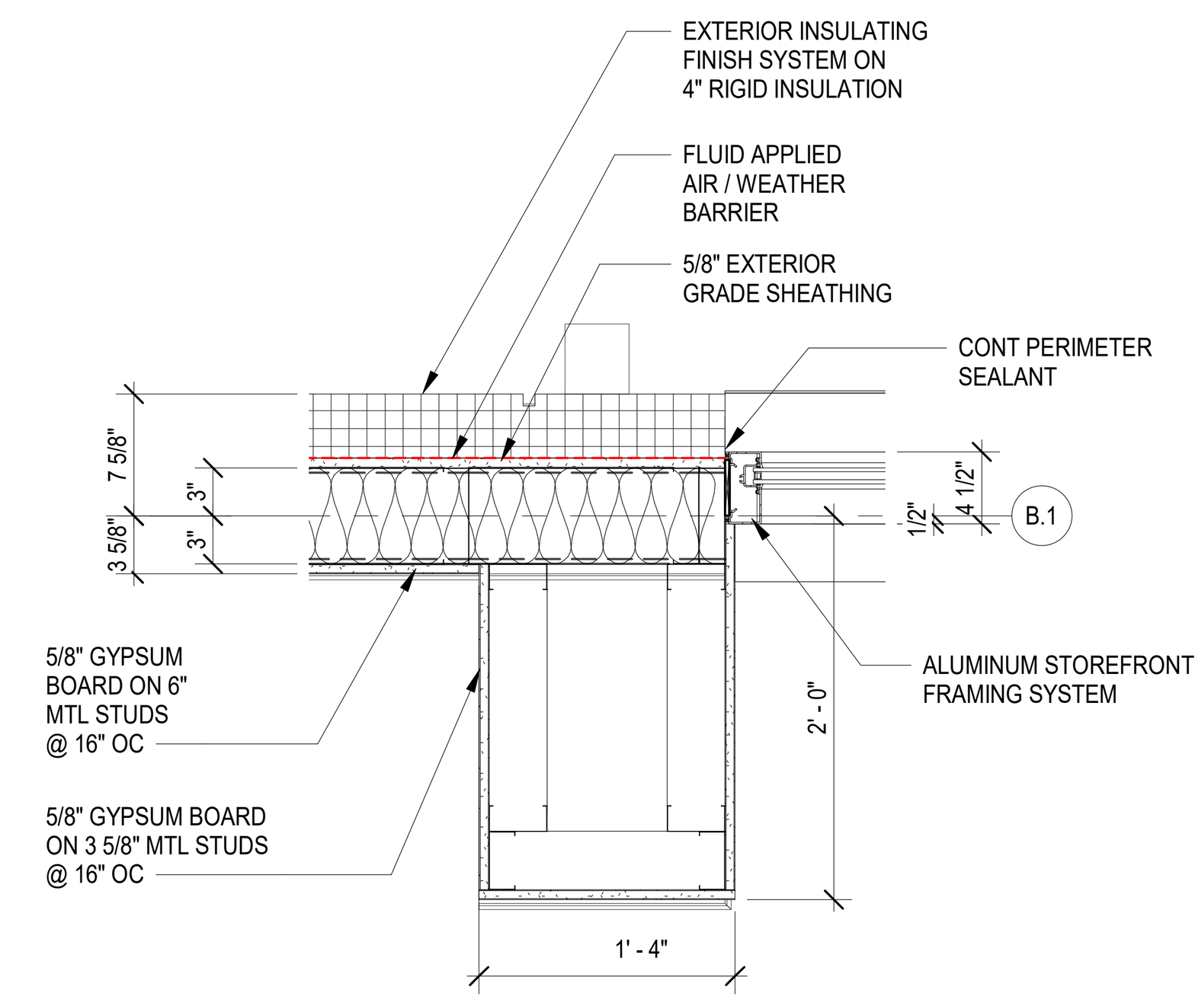
D1 A604 PLAN DETAIL - HIGH - 893.16' TO TOP OF PARAPET
1" = 1'-0"



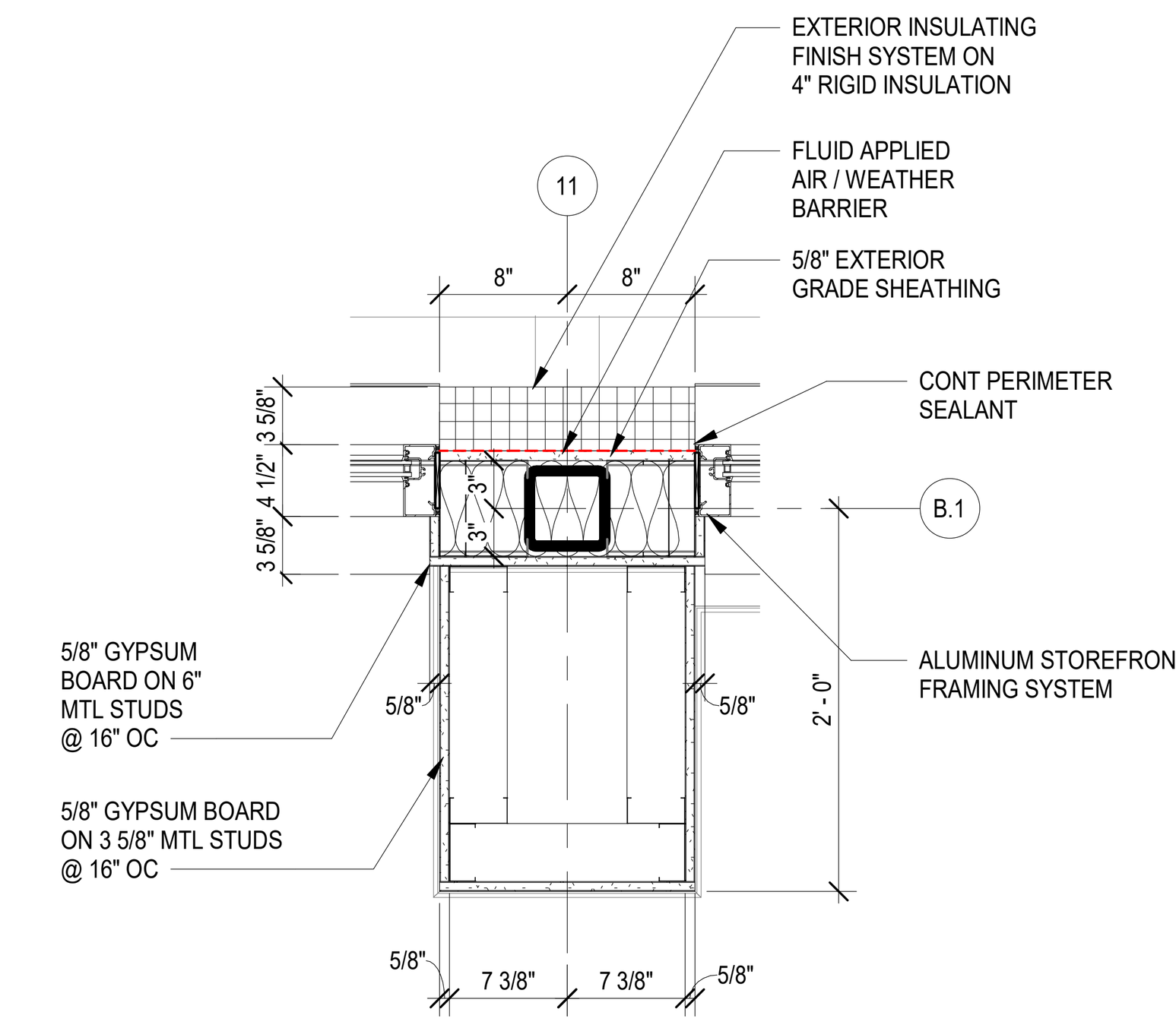
D2 A604 PLAN DETAIL - HIGH - 893.16' TO TOP OF PARAPET
1" = 1'-0"



D3 A604 PLAN DETAIL - CLERESTORY
1" = 1'-0"

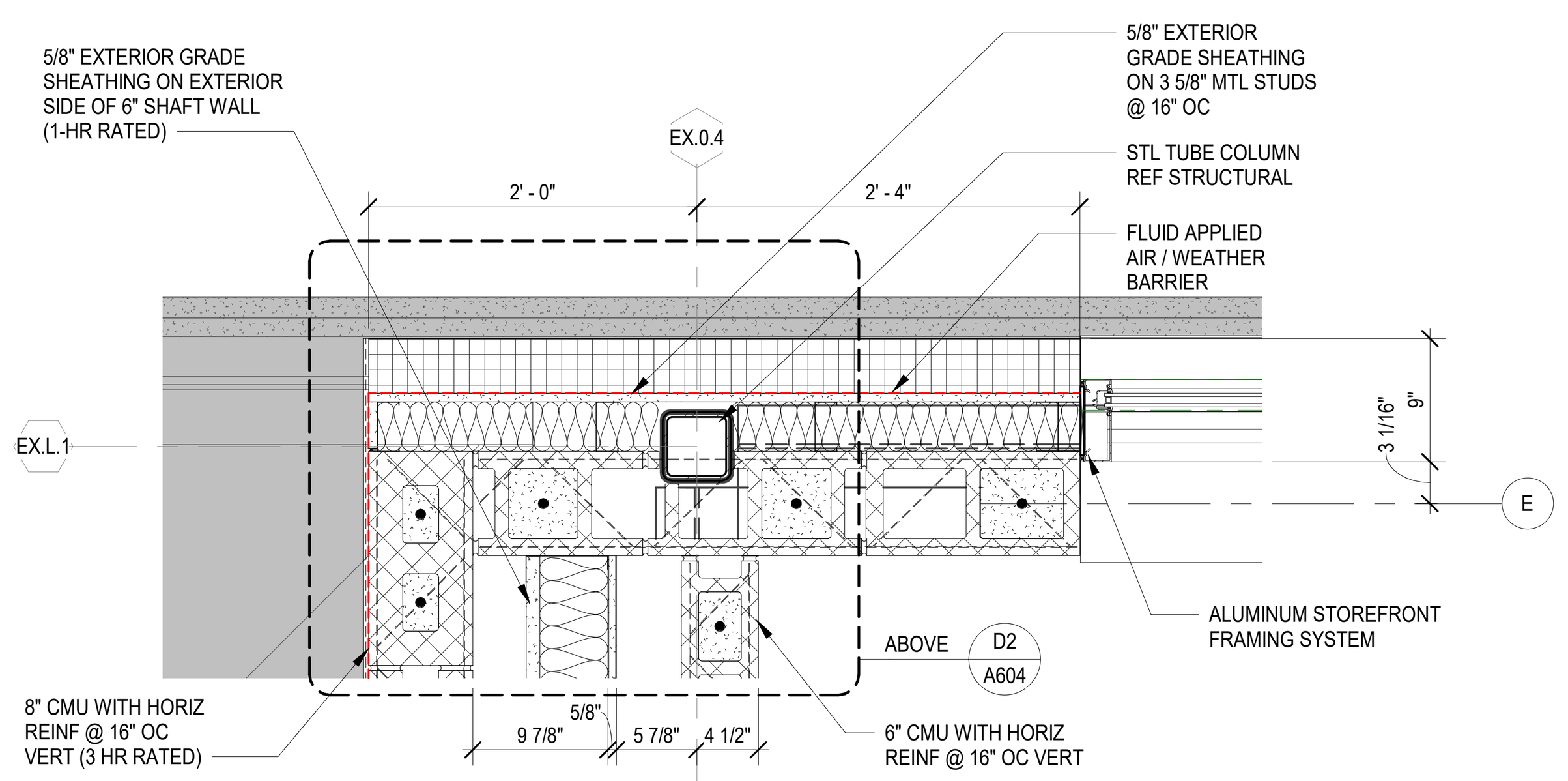


D4 A604 PLAN DETAIL - CLERESTORY
1" = 1'-0"

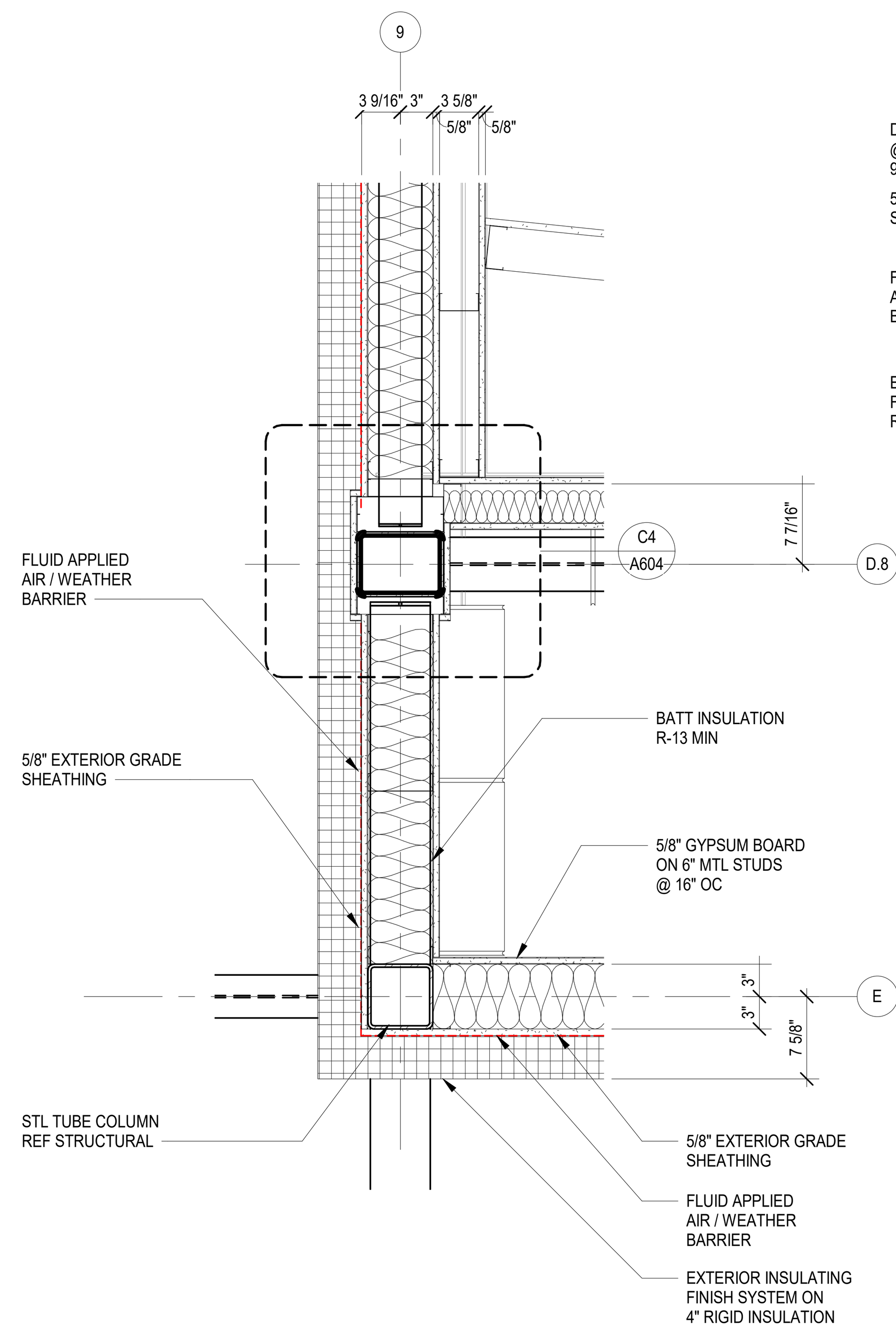


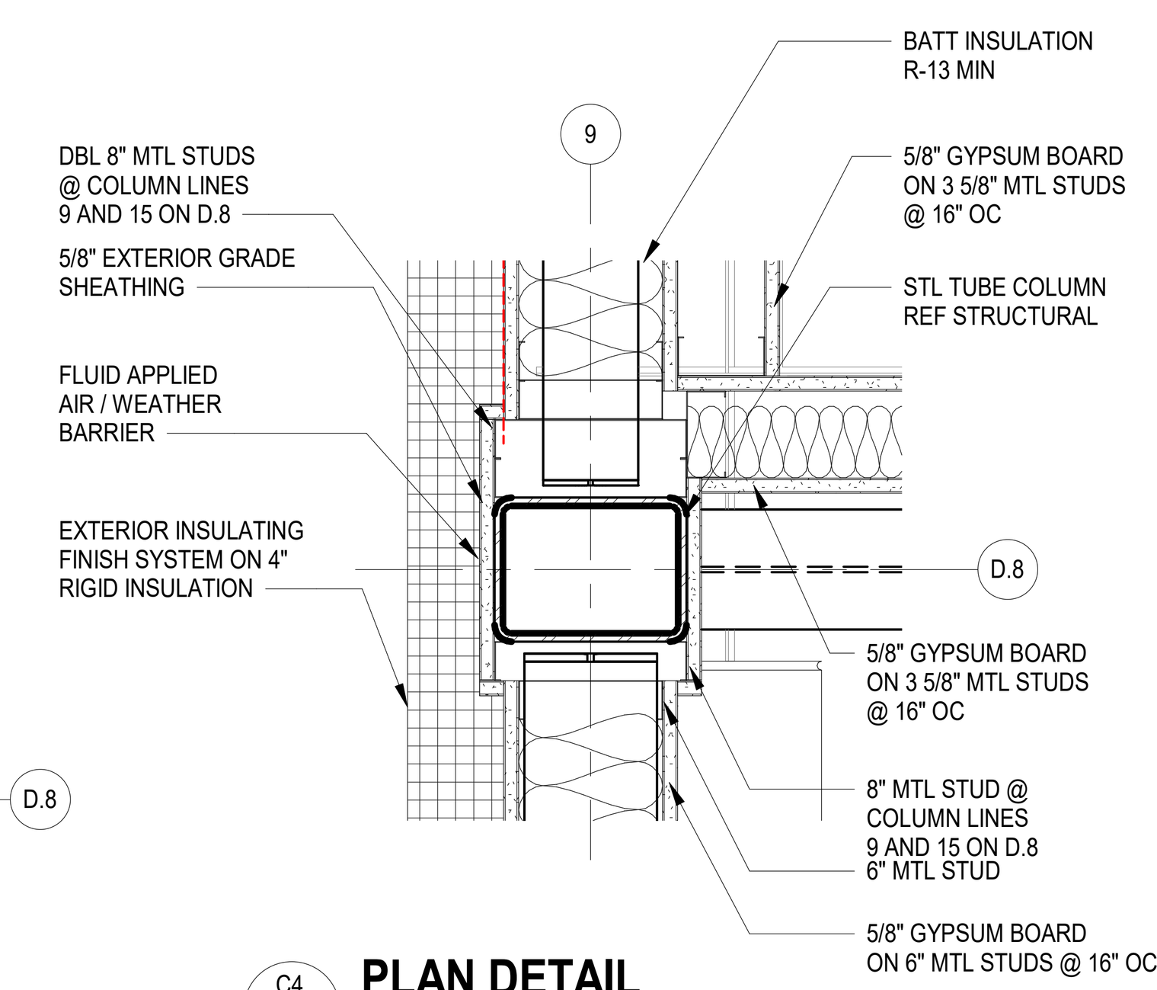
D5 A604 PLAN DETAIL - CLERESTORY
1" = 1'-0"

C

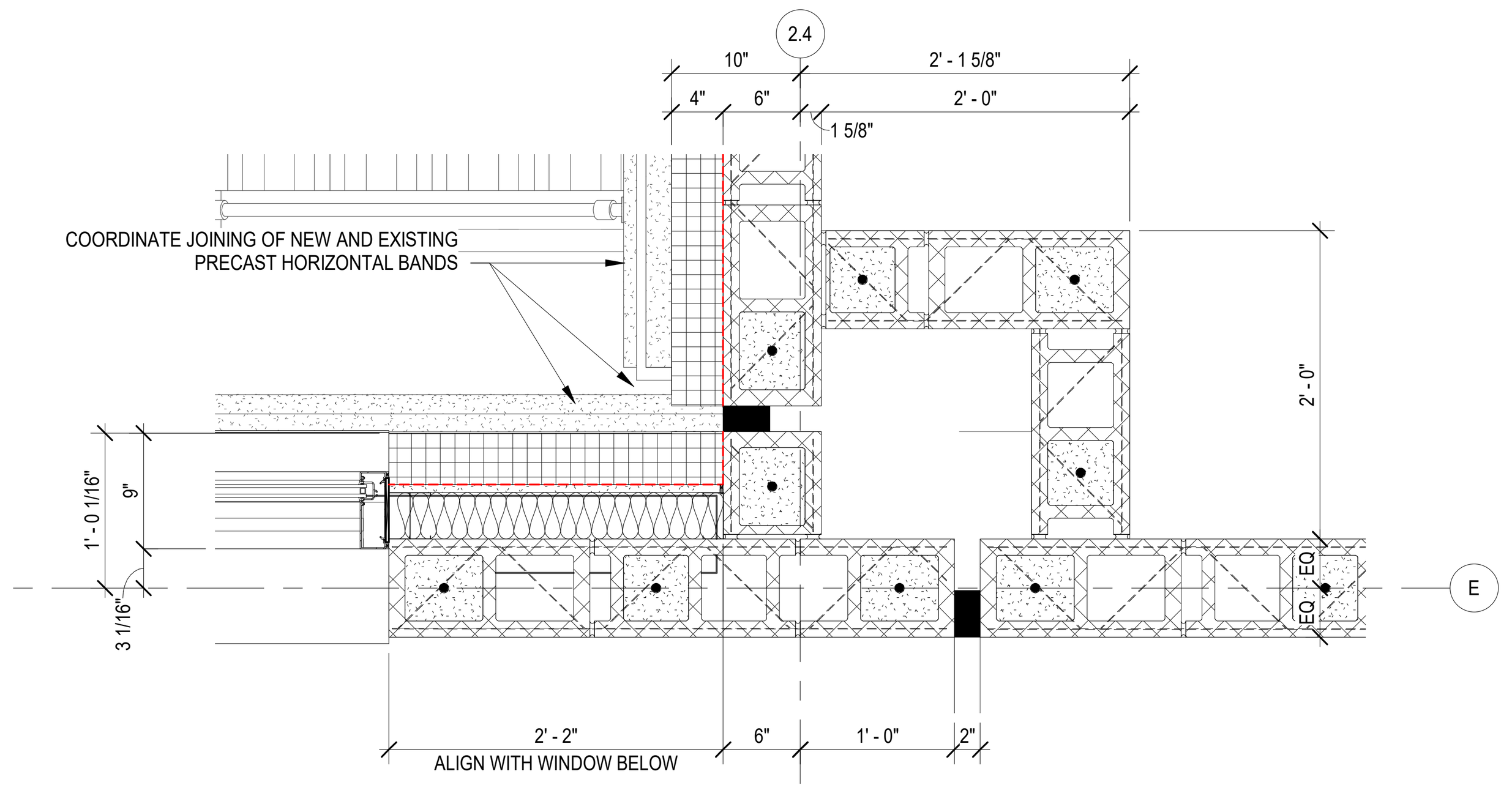


C1 A604 PLAN DETAIL - LOW - LEVEL 1200 (887.16') TO +6'-0 AFF (893.16')
1" = 1'-0"



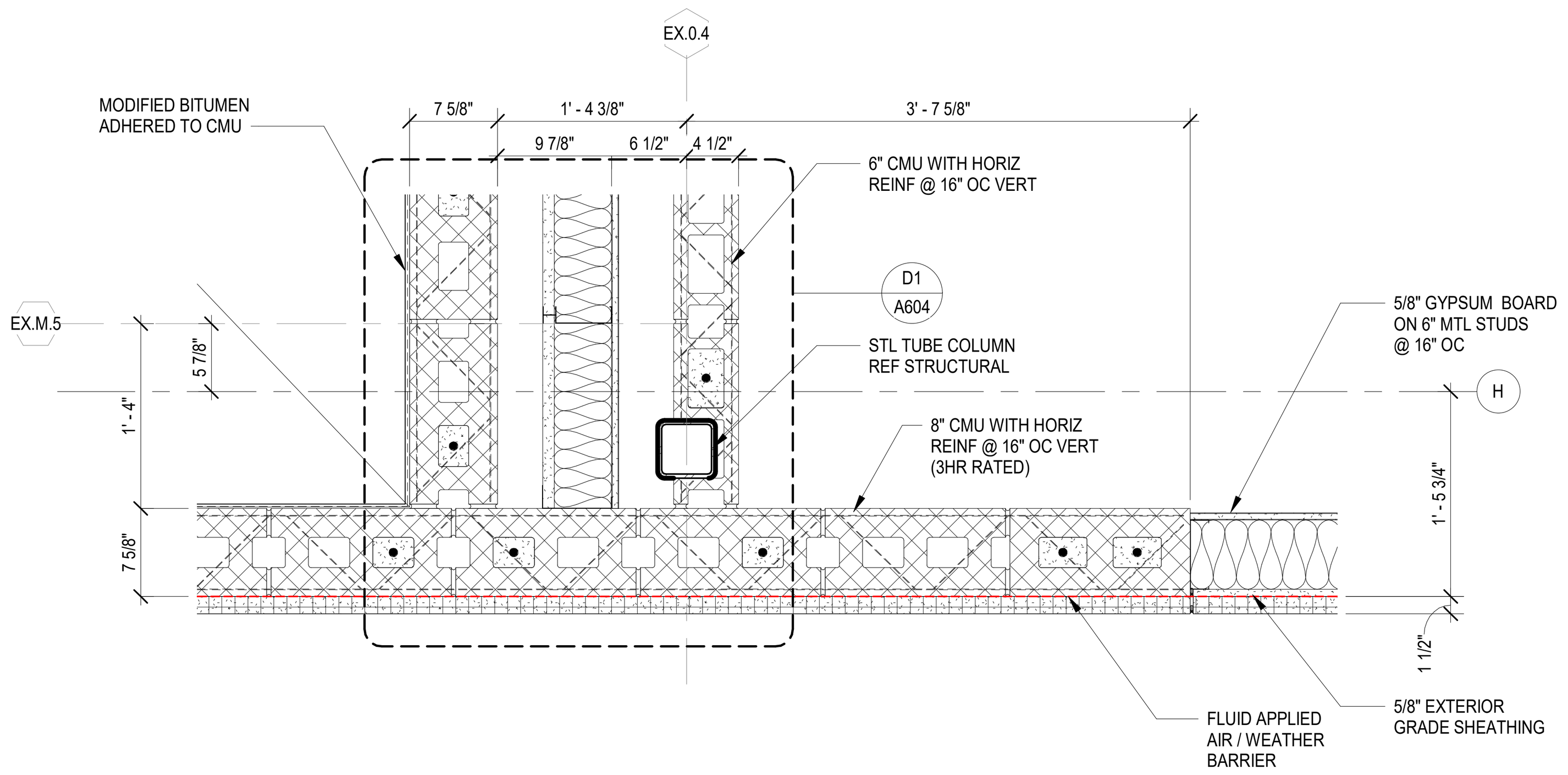


C4 A604 PLAN DETAIL
1 1/2" = 1'-0"



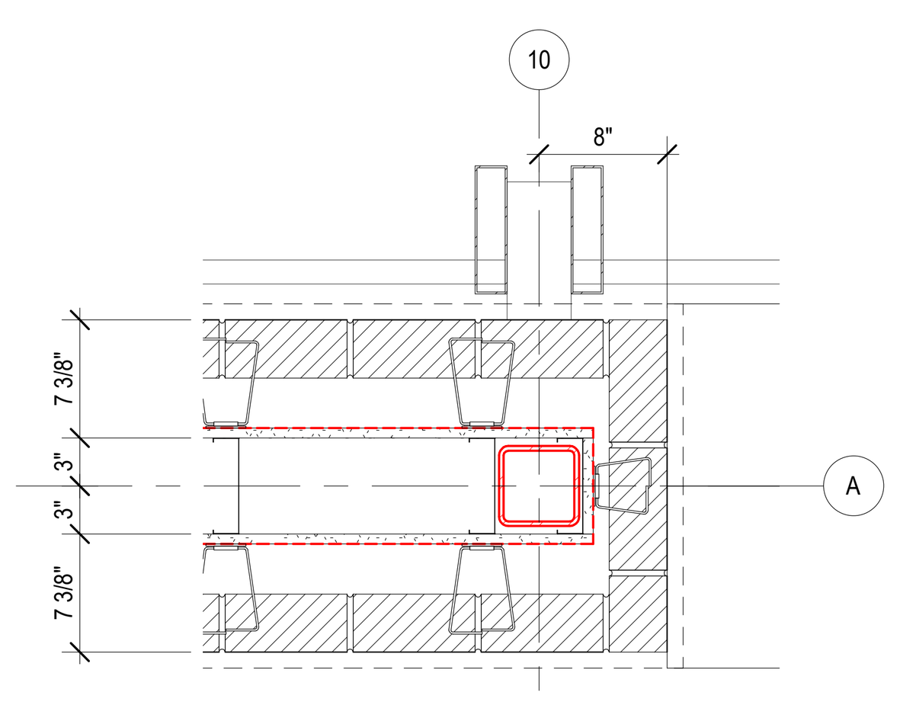
C5 A604 PLAN DETAIL
1" = 1'-0"

B



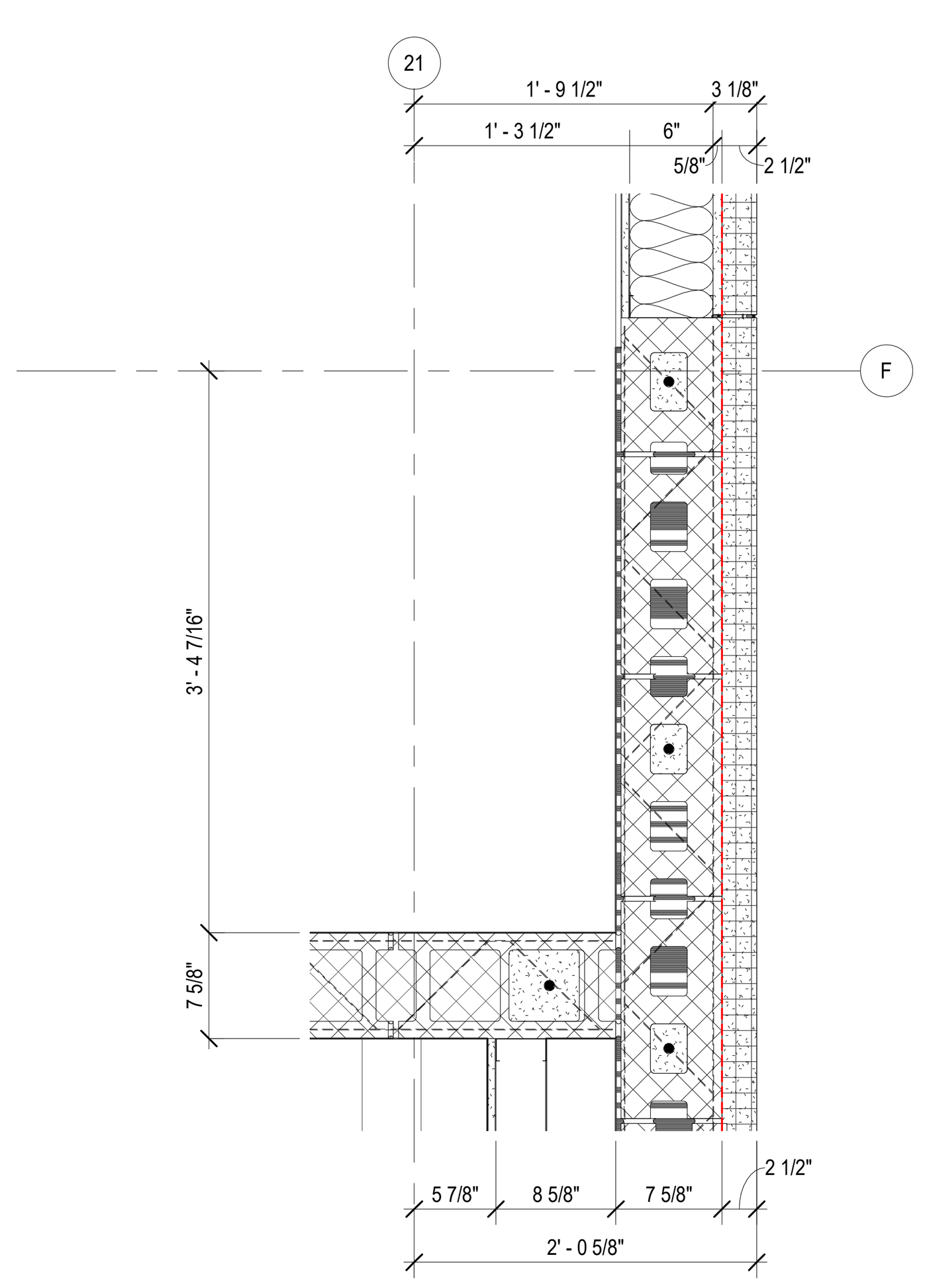
B1 A604 PLAN DETAIL - LOW - LEVEL 1200 (887.16') TO +6'-0 AFF (893.16')
1" = 1'-0"

B3 A604 PLAN DETAIL - CLERESTORY
1" = 1'-0"

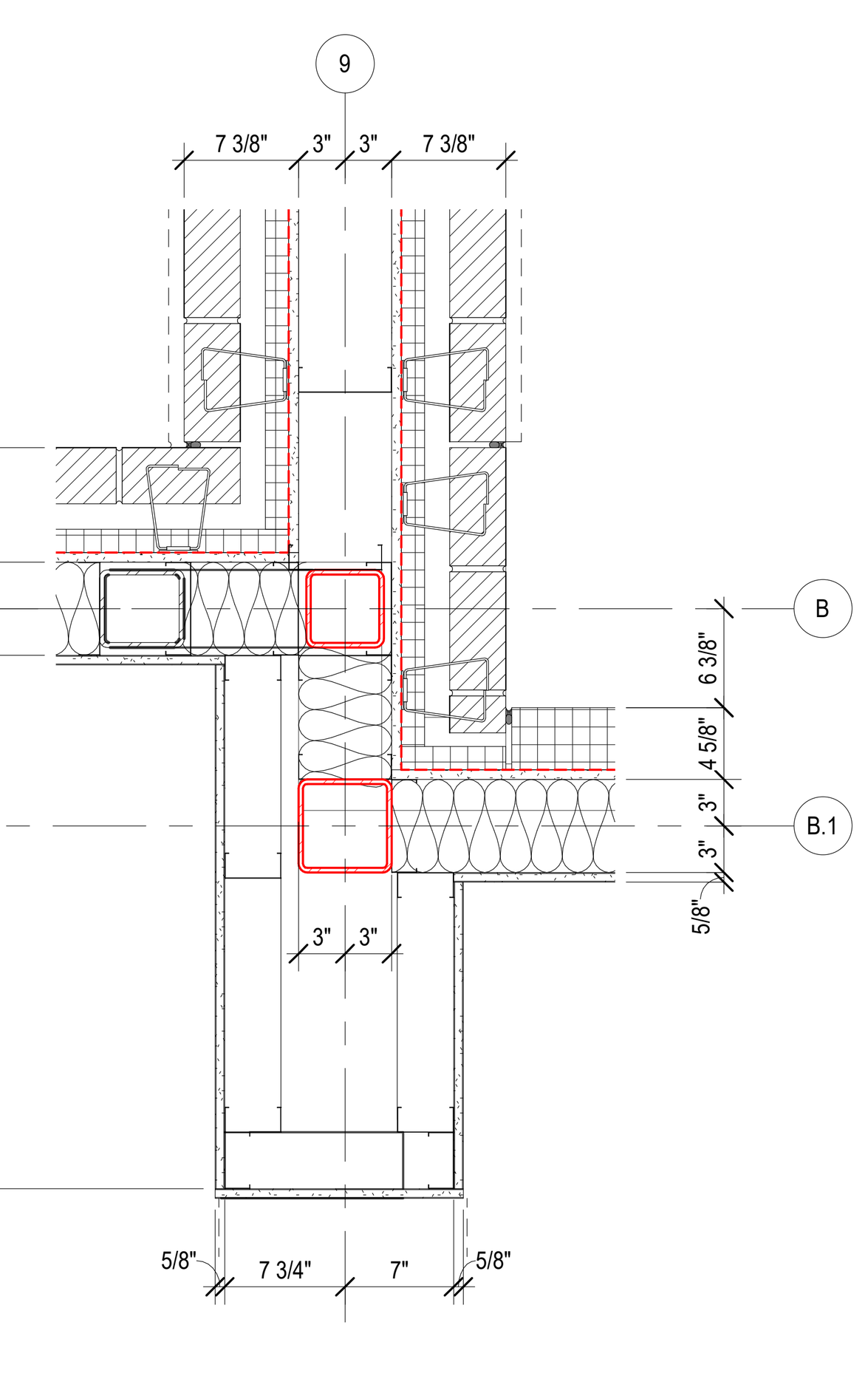


B4 A604 PLAN DETAIL
1" = 1'-0"

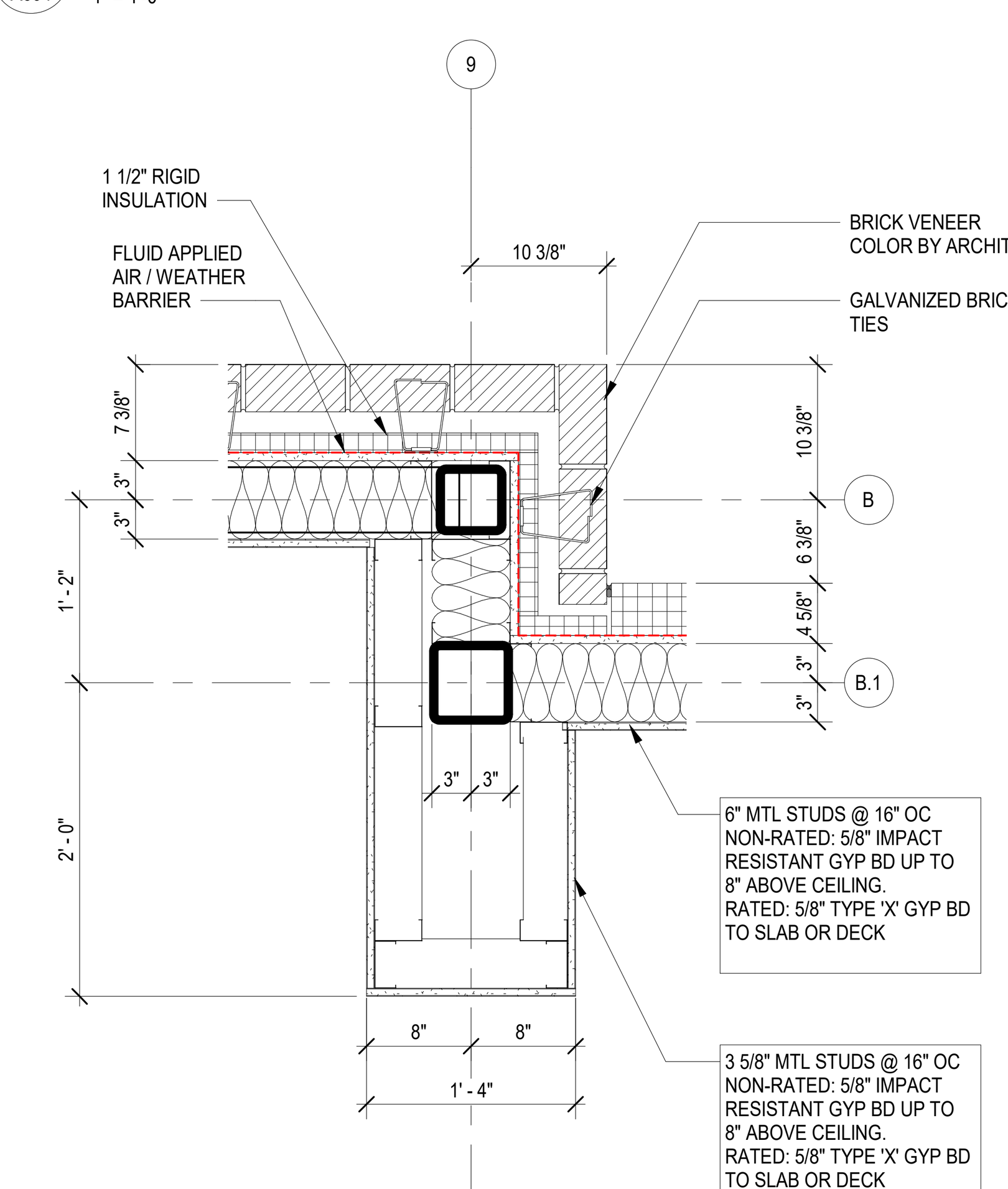
A



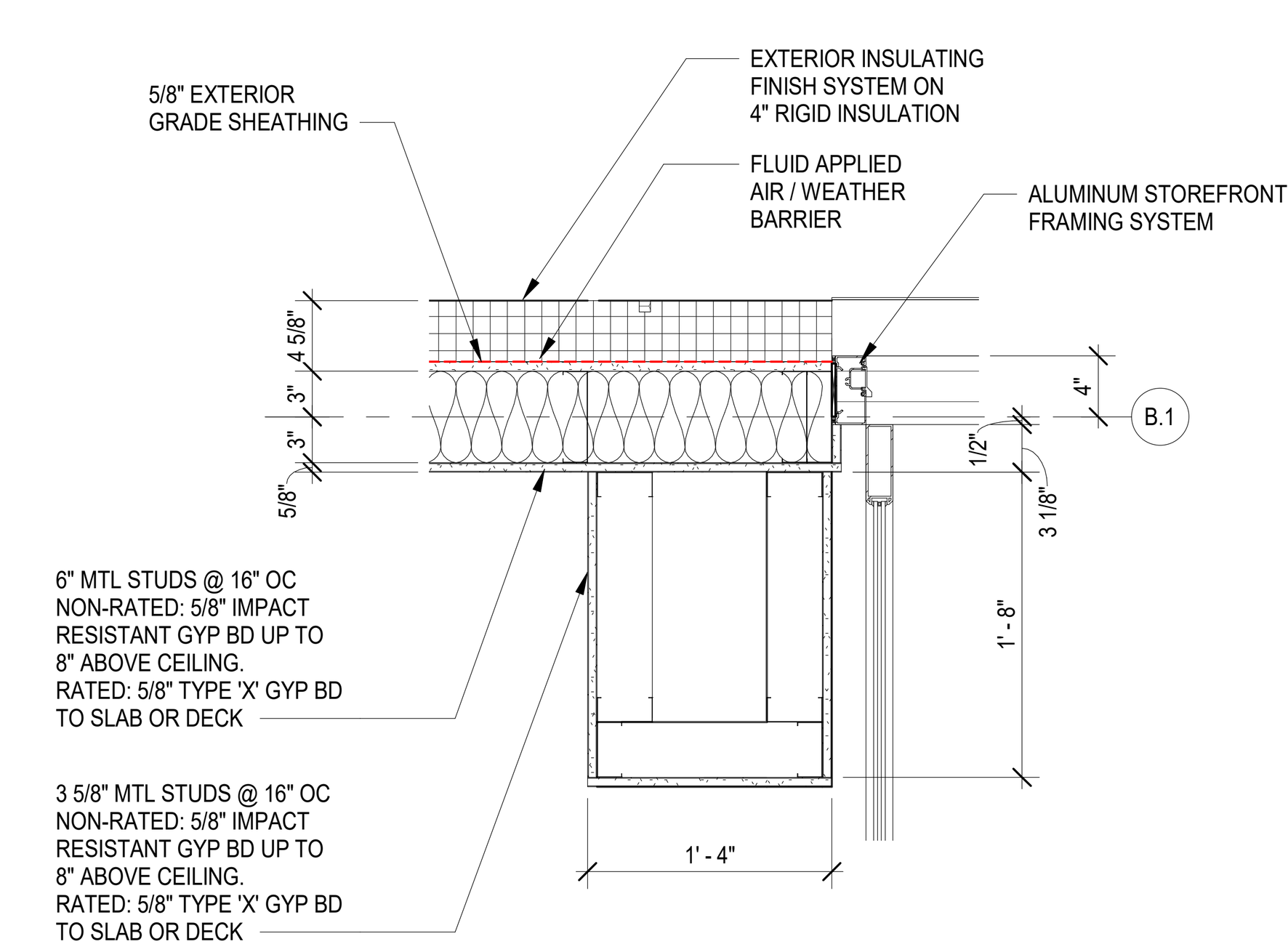
A1 A604 PLAN DETAIL
1" = 1'-0"



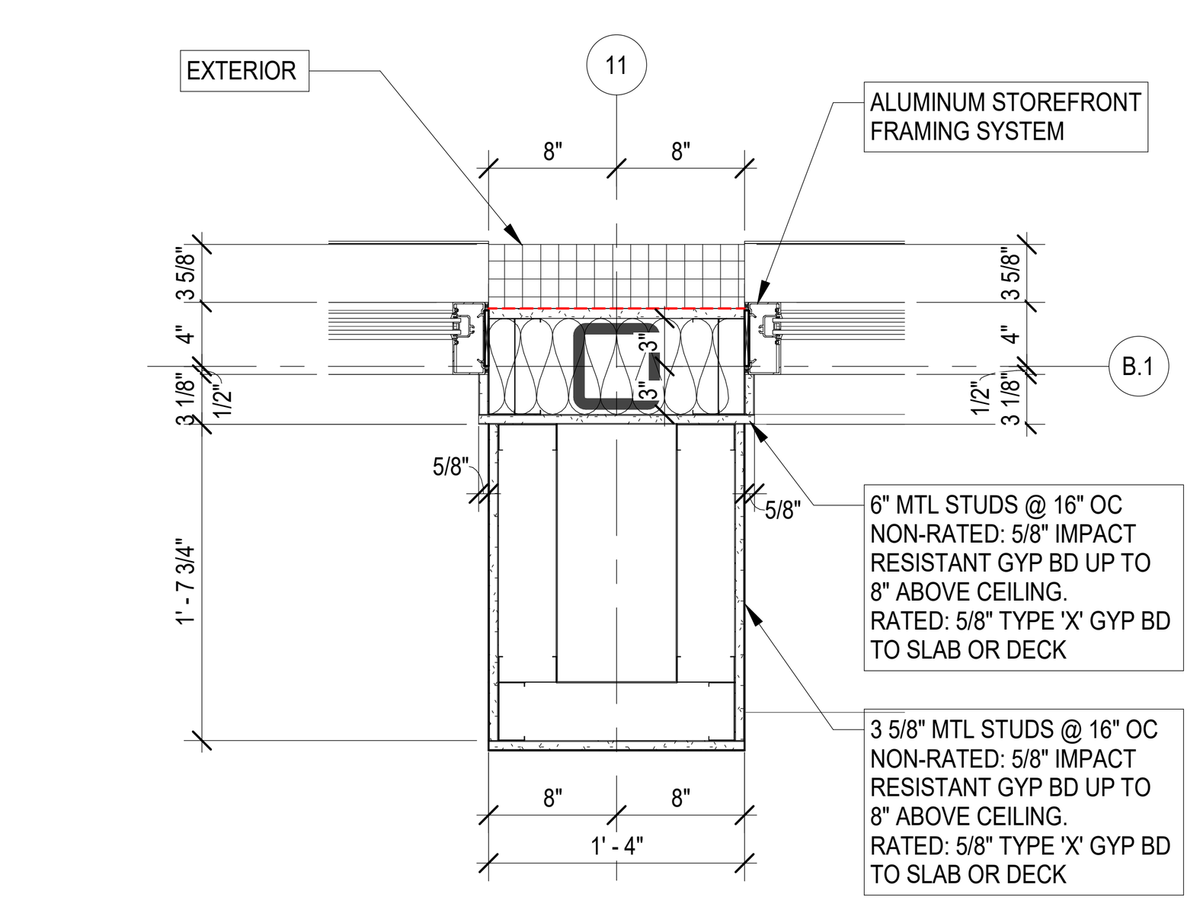
A2 A604 PLAN DETAIL - LEVEL 1200 - LOW
1" = 1'-0"



A3 A604 PLAN DETAIL
1" = 1'-0"



A4 A604 PLAN DETAIL
1" = 1'-0"



A5 A604 PLAN DETAIL
1" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: DC

SHEET TITLE:
PLAN DETAILS - AREAS A/B - LEVEL 1200 & CLERESTORY

SHEET NO. PROJ. NO. 020420.00

A604

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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

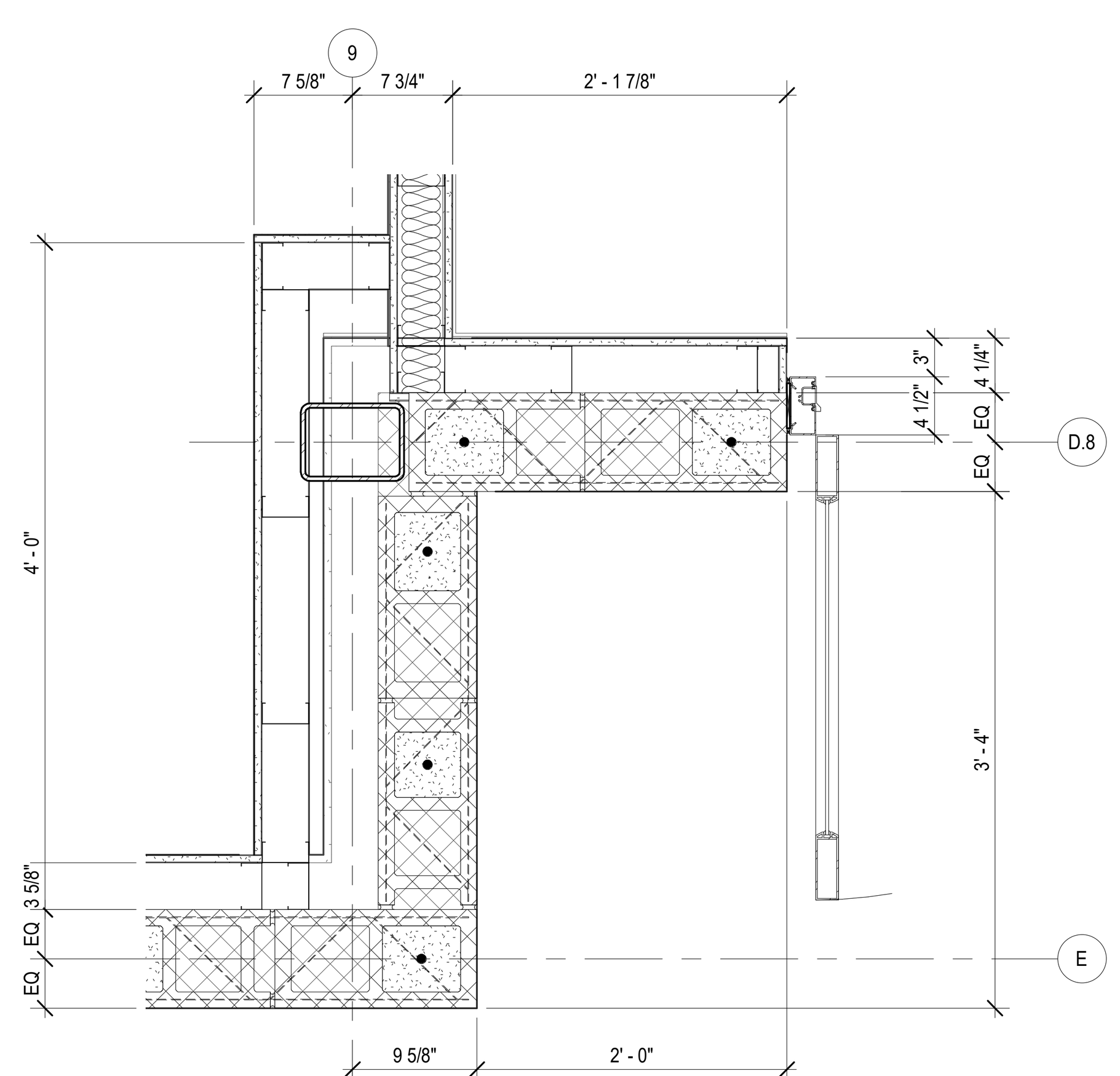
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: RPC

SHEET TITLE:

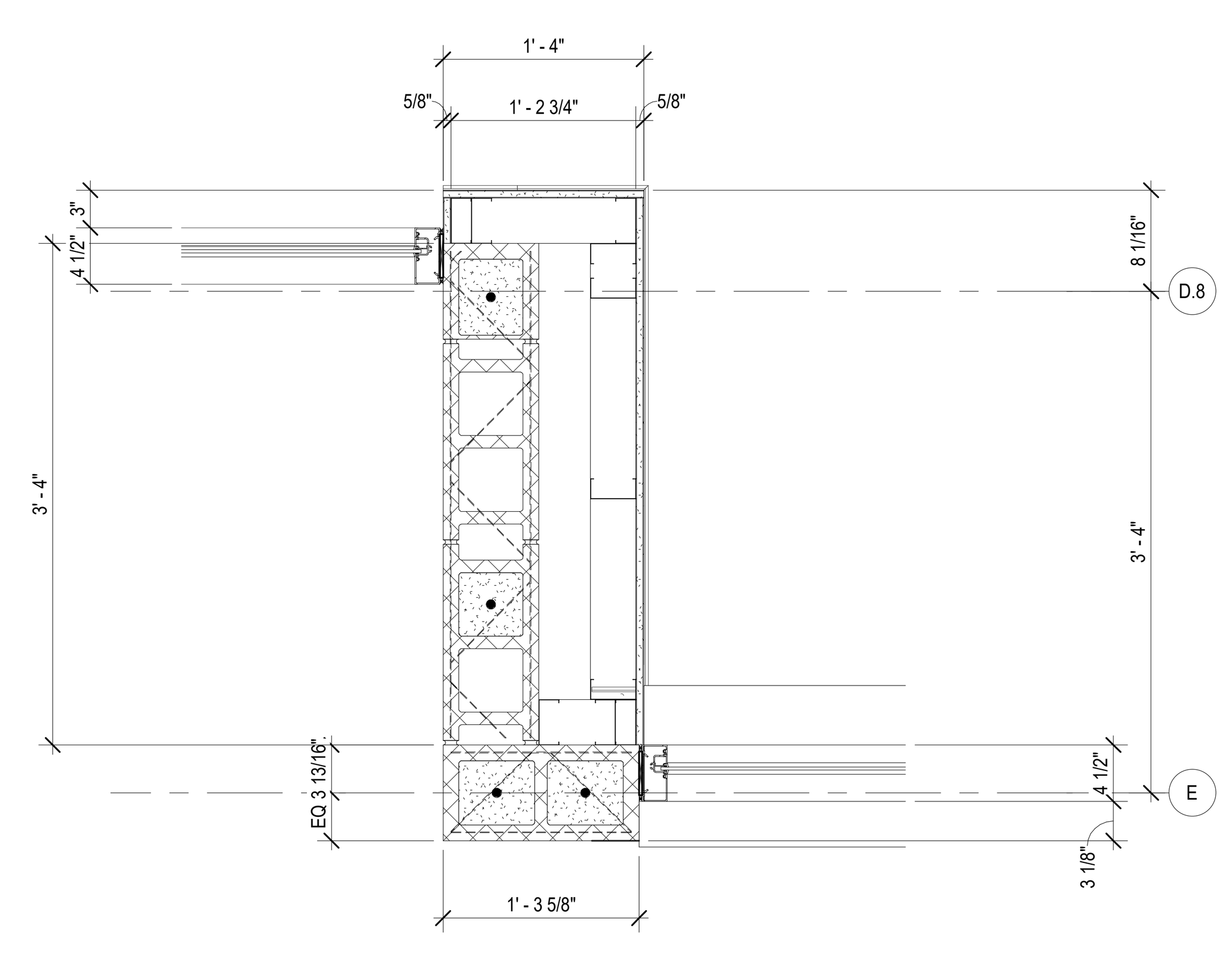
PLAN DETAILS - AREAS A/B - MISCELLANEOUS

SHEET NO. PROJ. NO. 020420.00

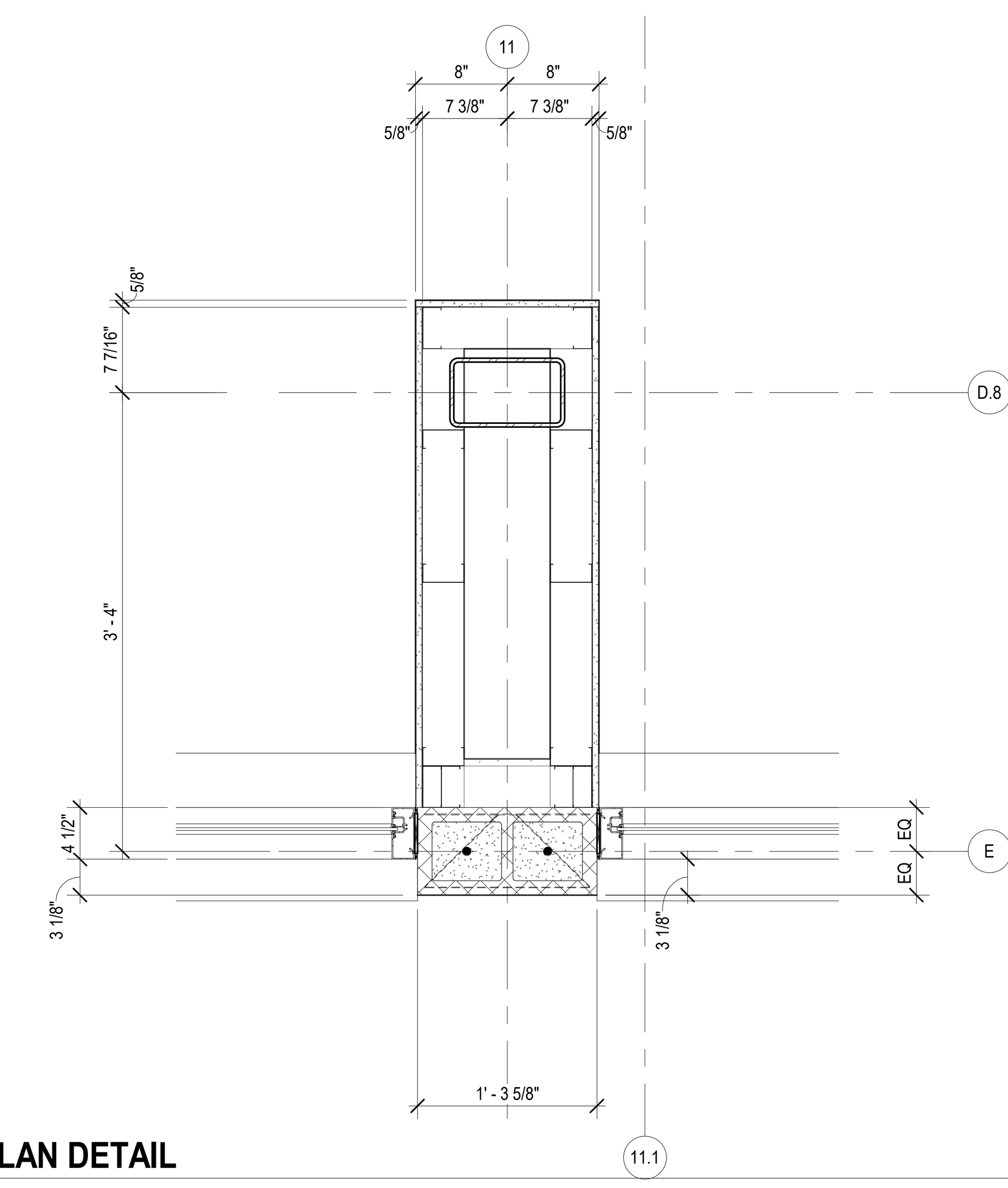
A605



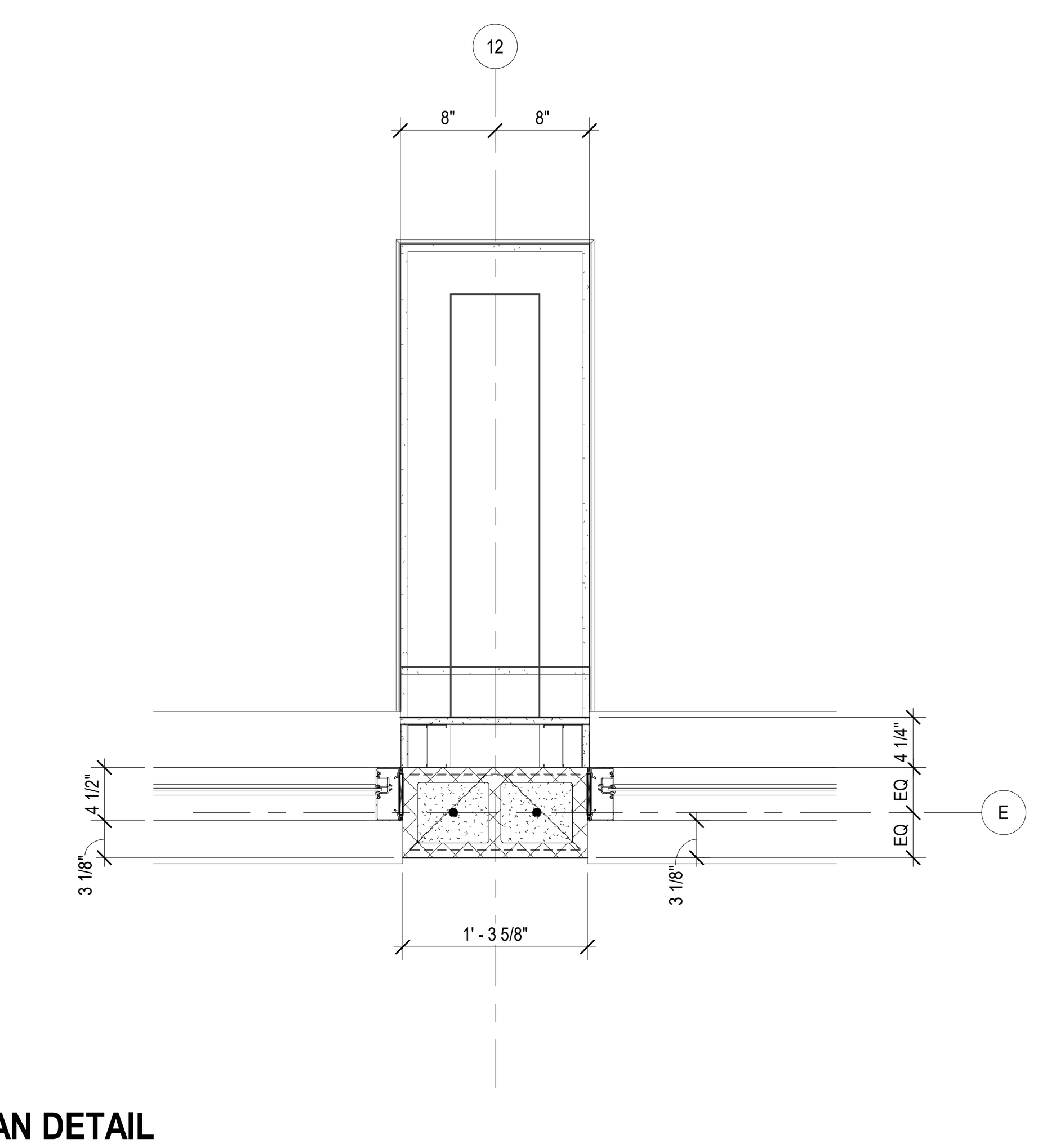
A1 / A605 **PLAN DETAIL**
1" = 1'-0"



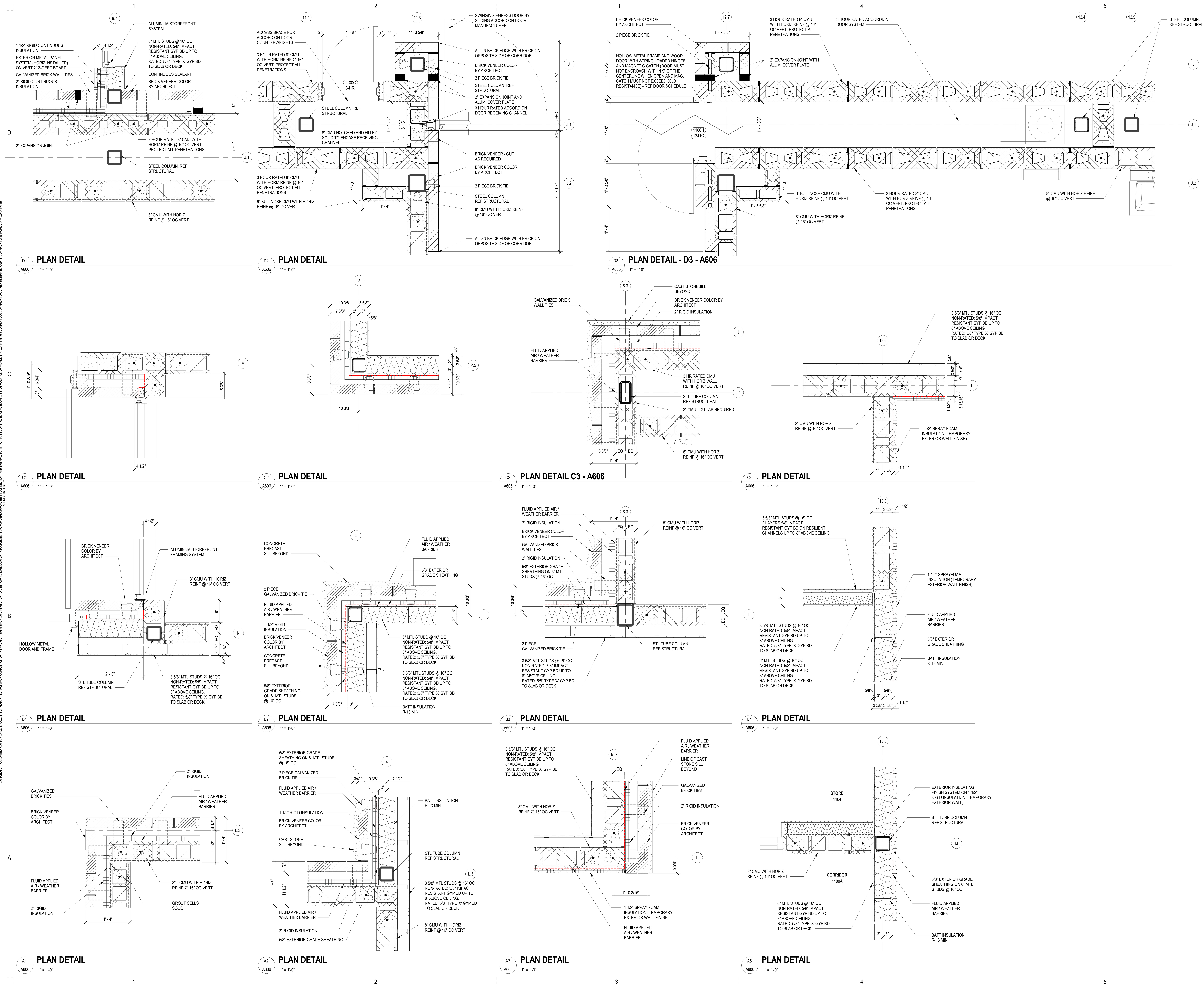
A2 / A605 **PLAN DETAIL**
1" = 1'-0"



A3 / A605 **PLAN DETAIL**
1" = 1'-0"



A4 / A605 **PLAN DETAIL**
1" = 1'-0"



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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

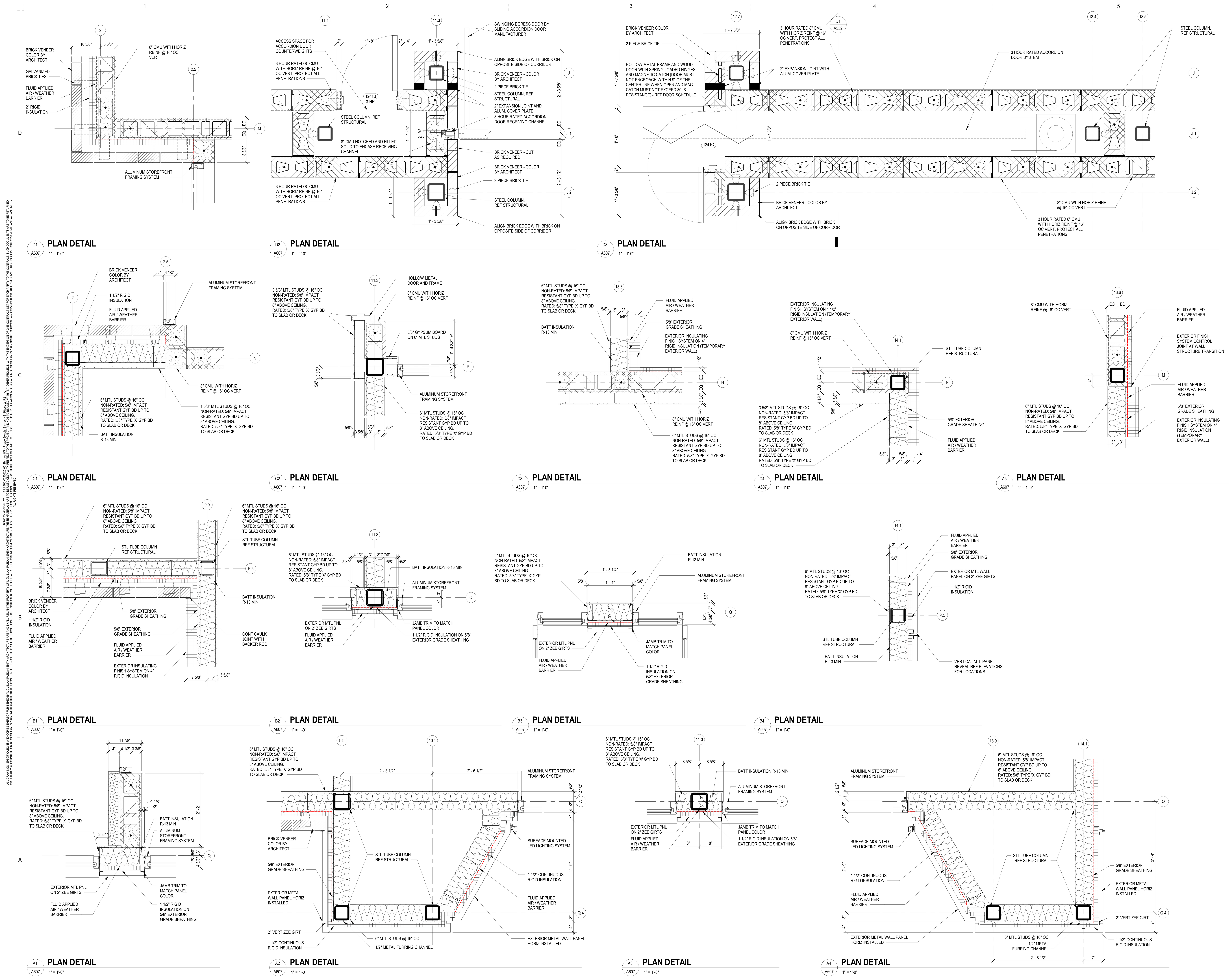
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: PS, DC, RPC

SHEET TITLE:

PLAN DETAILS - AREA C - LEVELS 1100 AND 1200

SHEET NO. PROJ. NO. 020420.00

A606



D1 PLAN DETAIL A607 1" = 1'-0"
D2 PLAN DETAIL A607 1" = 1'-0"
D3 PLAN DETAIL A607 1" = 1'-0"
C1 PLAN DETAIL A607 1" = 1'-0"
C2 PLAN DETAIL A607 1" = 1'-0"
C3 PLAN DETAIL A607 1" = 1'-0"
C4 PLAN DETAIL A607 1" = 1'-0"
A5 PLAN DETAIL A607 1" = 1'-0"
B1 PLAN DETAIL A607 1" = 1'-0"
B2 PLAN DETAIL A607 1" = 1'-0"
B3 PLAN DETAIL A607 1" = 1'-0"
B4 PLAN DETAIL A607 1" = 1'-0"
A1 PLAN DETAIL A607 1" = 1'-0"
A2 PLAN DETAIL A607 1" = 1'-0"
A3 PLAN DETAIL A607 1" = 1'-0"
A4 PLAN DETAIL A607 1" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION
FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

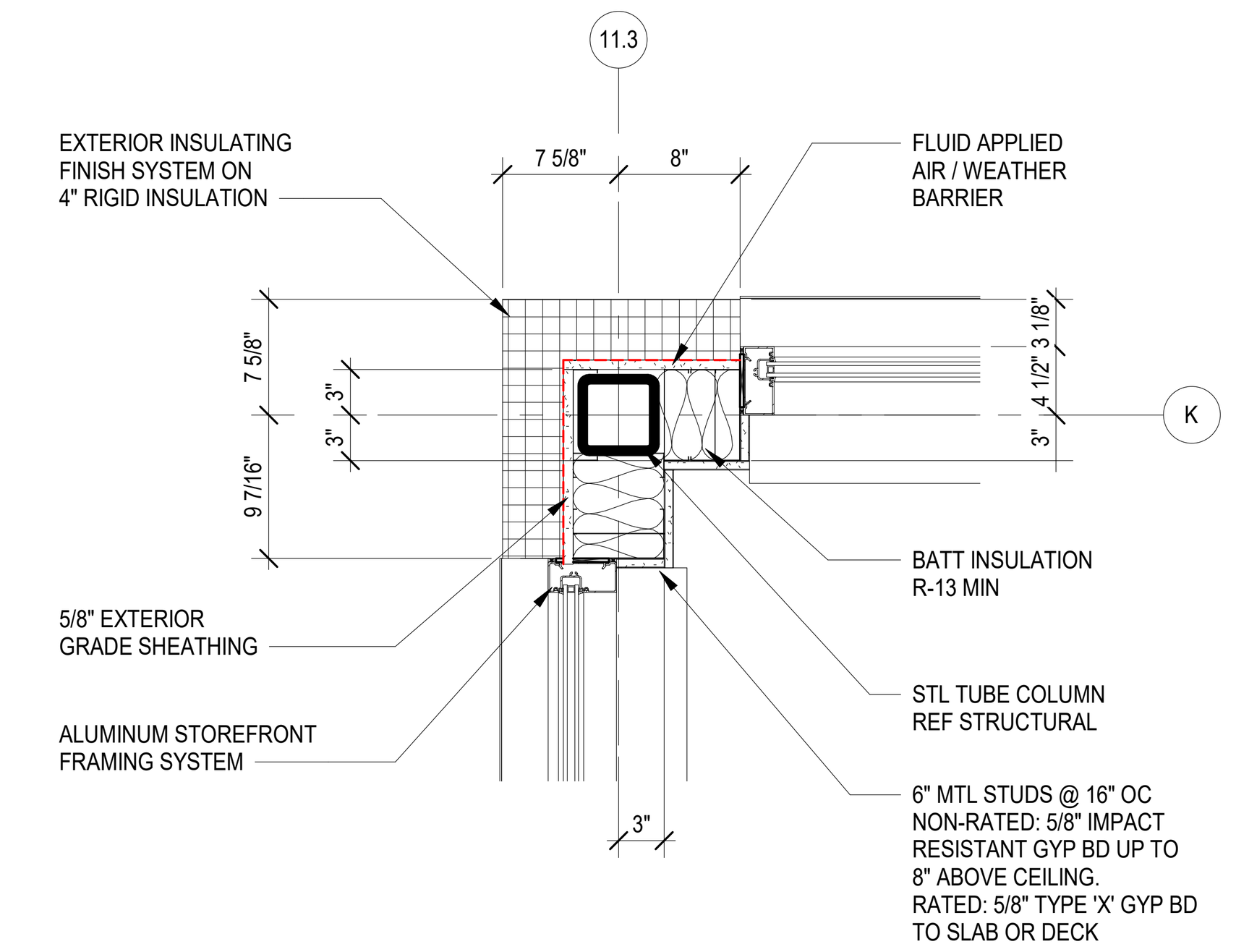
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RCP
DRAWN BY: CBM

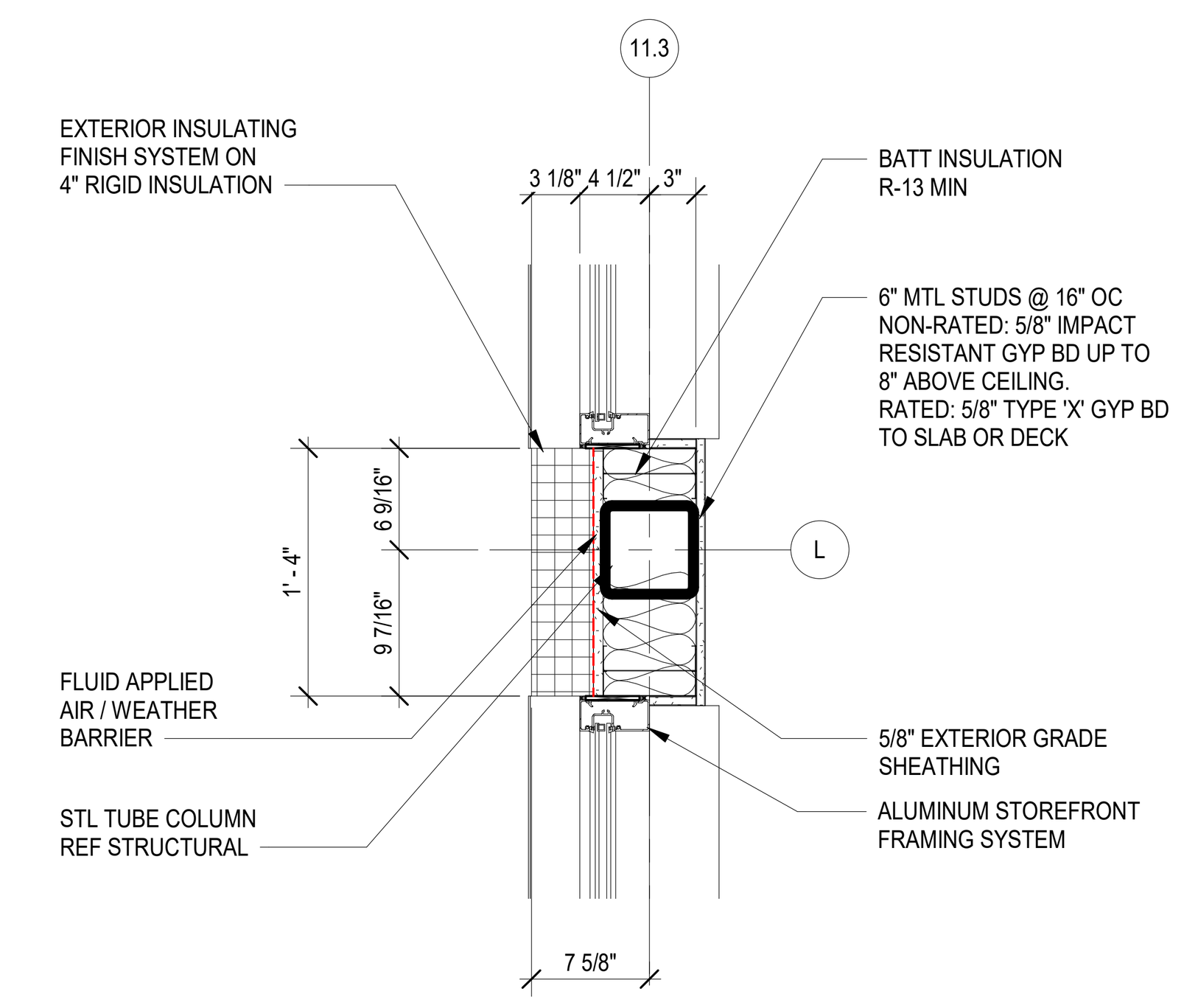
SHEET TITLE:
PLAN DETAILS - AREA C - LEVELS 1100 AND 1200

SHEET NO. PROJ. NO. 020420.00

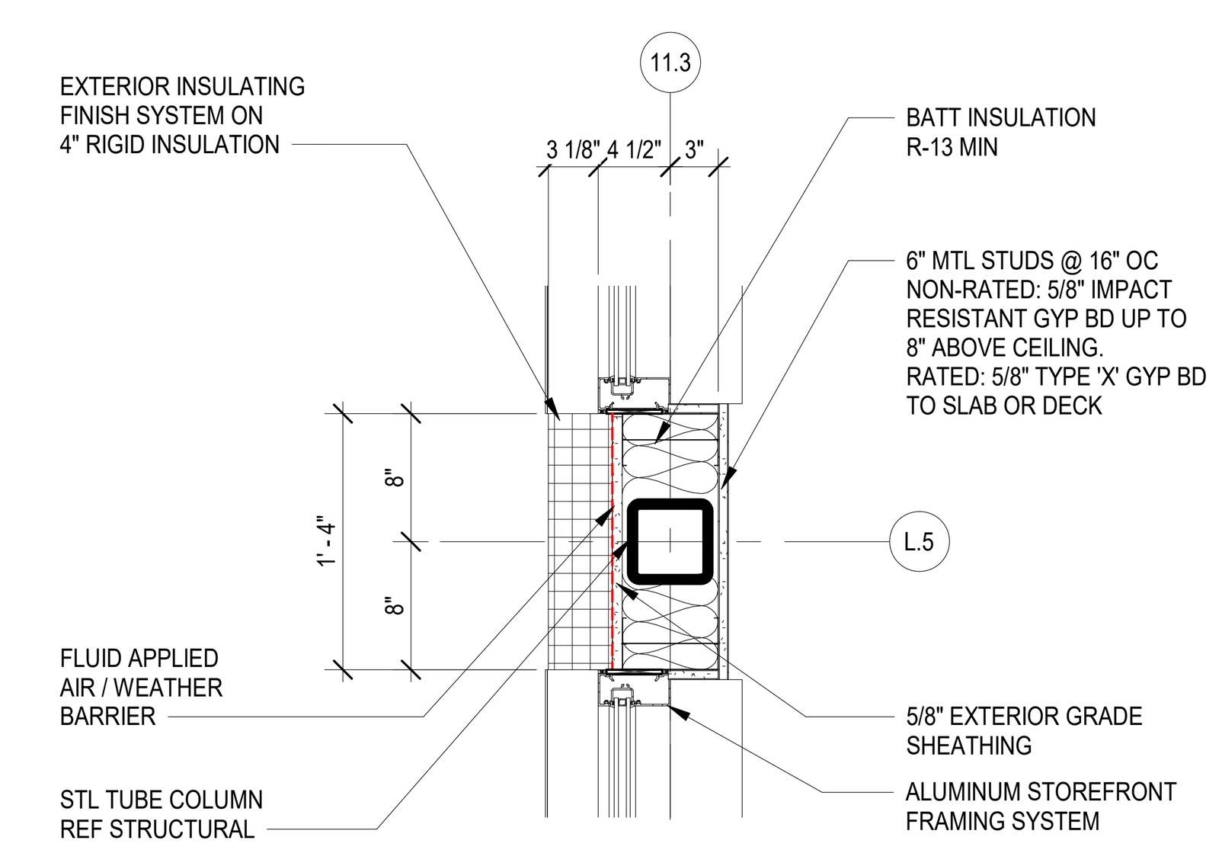
A607



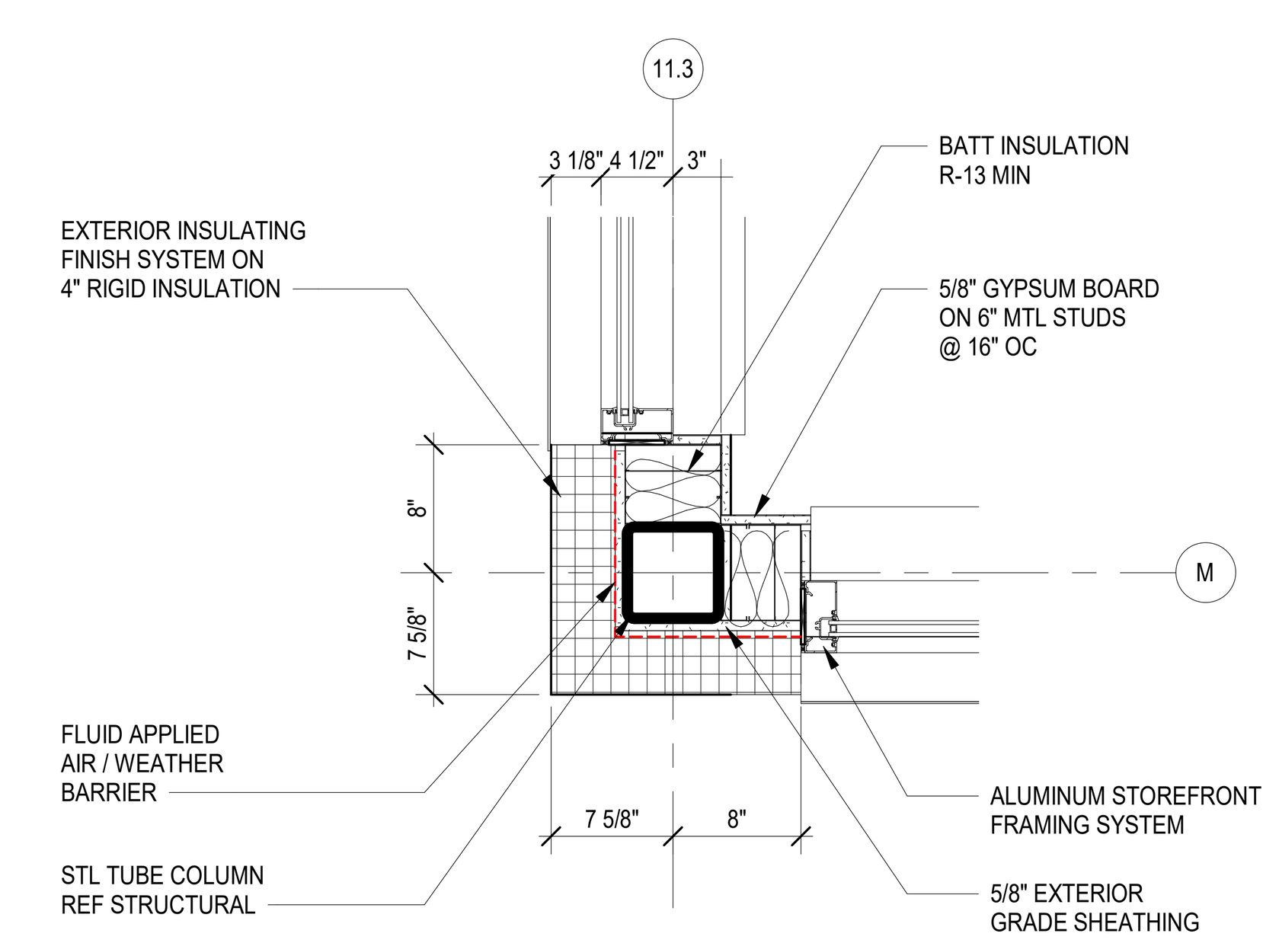
D3 / A608 **PLAN DETAIL - CLERESTORY**
1" = 1'-0"



C3 / A608 **PLAN DETAIL - CLERESTORY**
1" = 1'-0"



B3 / A608 **PLAN DETAIL - CLERESTORY**
1" = 1'-0"



A3 / A608 **PHASE 2 - CLERESTORY - Callout 2**
1" = 1'-0"

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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	MLC

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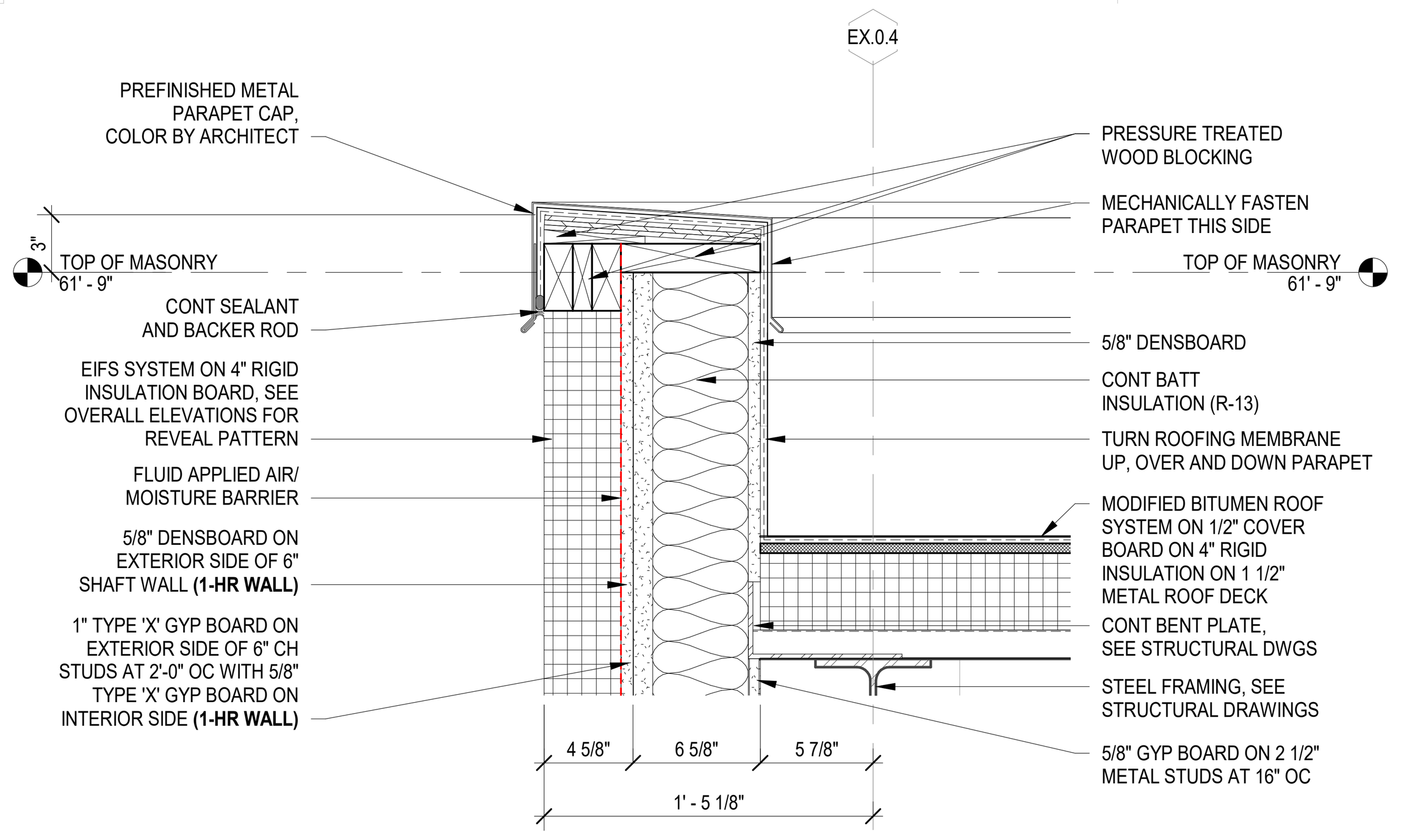
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: DC

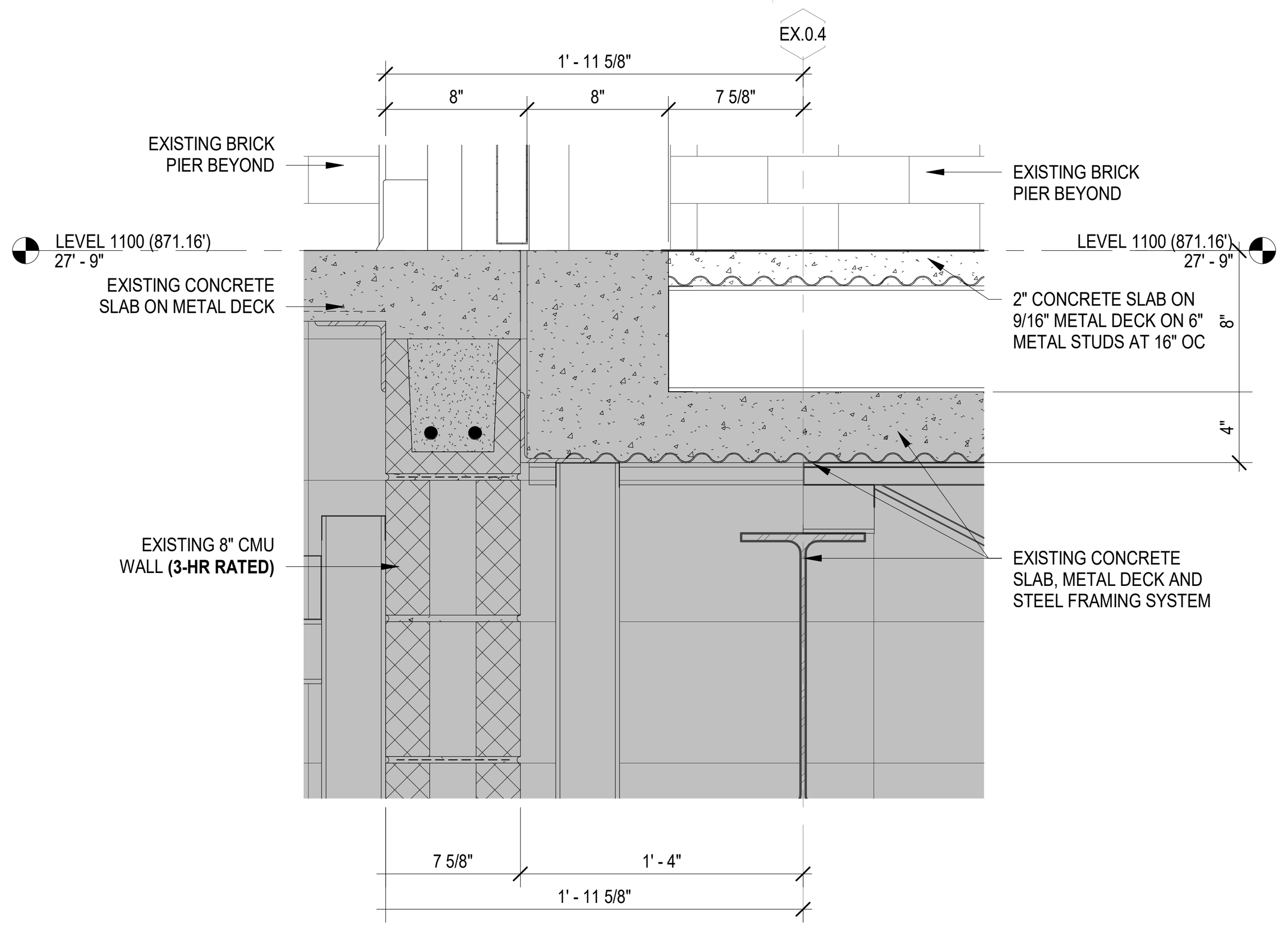
SHEET TITLE:
PLAN DETAILS - AREA C - CLERESTORY AND MISCELLANEOUS

SHEET NO. A608
PROJ. NO. 020420.00



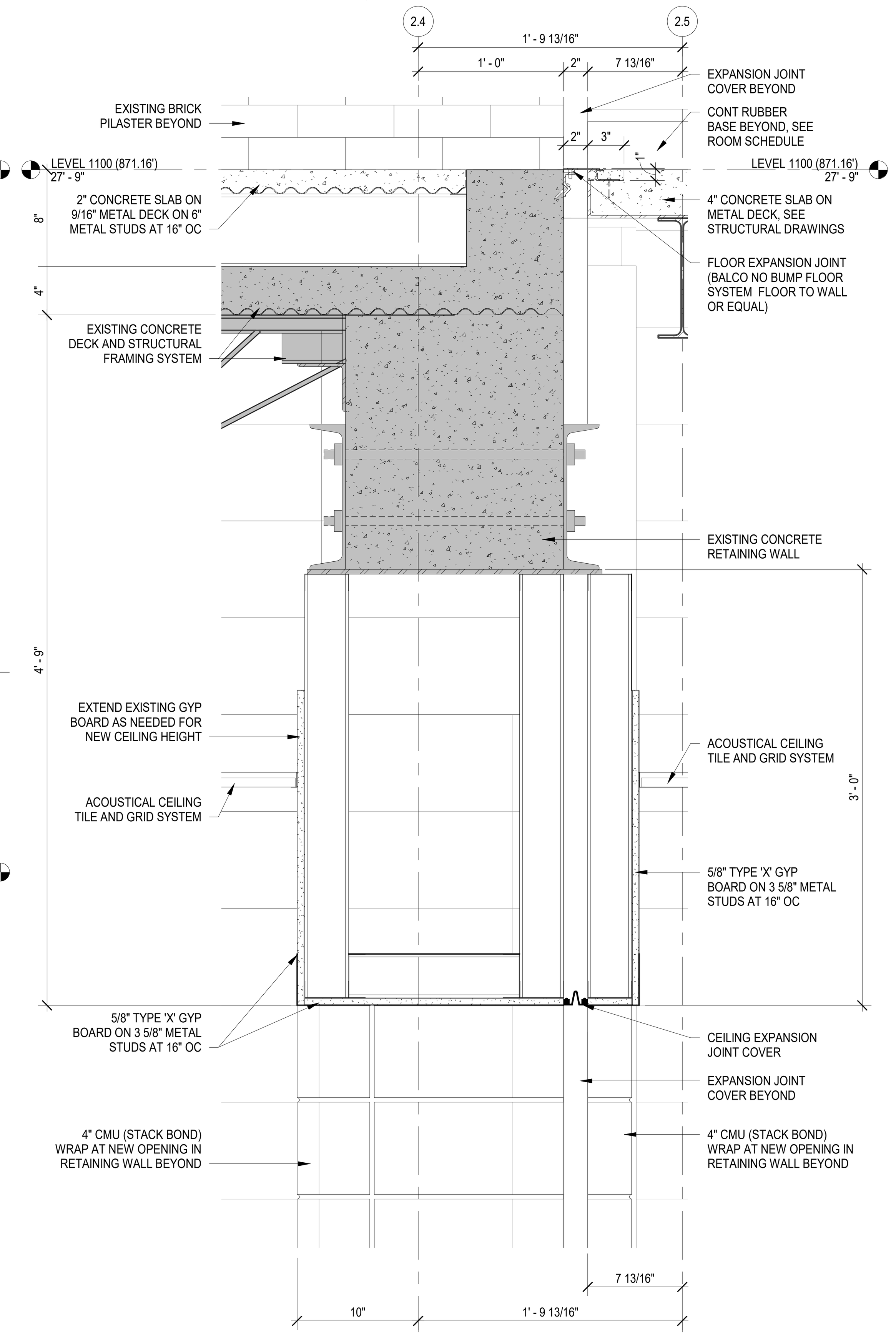
EX.0.4
PREFINISHED METAL PARAPET CAP, COLOR BY ARCHITECT
PRESSURE TREATED WOOD BLOCKING
MECHANICALLY FASTEN PARAPET THIS SIDE
TOP OF MASONRY 61' - 9"
CONT SEALANT AND BACKER ROD
5/8" DENSBOARD
EIFS SYSTEM ON 4" RIGID INSULATION BOARD, SEE OVERALL ELEVATIONS FOR REVEAL PATTERN
CONT BATT INSULATION (R-13)
TURN ROOFING MEMBRANE UP, OVER AND DOWN PARAPET
FLUID APPLIED AIR/ MOISTURE BARRIER
5/8" DENSBOARD ON EXTERIOR SIDE OF 6" SHAFT WALL (1-HR WALL)
MODIFIED BITUMEN ROOF SYSTEM ON 1/2" COVER BOARD ON 4" RIGID INSULATION ON 1 1/2" METAL ROOF DECK
1" TYPE "X" GYP BOARD ON EXTERIOR SIDE OF 6" CH STUDS AT 2'-0" OC WITH 5/8" TYPE "X" GYP BOARD ON INTERIOR SIDE (1-HR WALL)
CONT BENT PLATE, SEE STRUCTURAL DWGS
STEEL FRAMING, SEE STRUCTURAL DRAWINGS
5/8" GYP BOARD ON 2 1/2" METAL STUDS AT 16" OC
4 5/8" 6 5/8" 5 7/8"
1' - 5 1/8"

D1 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



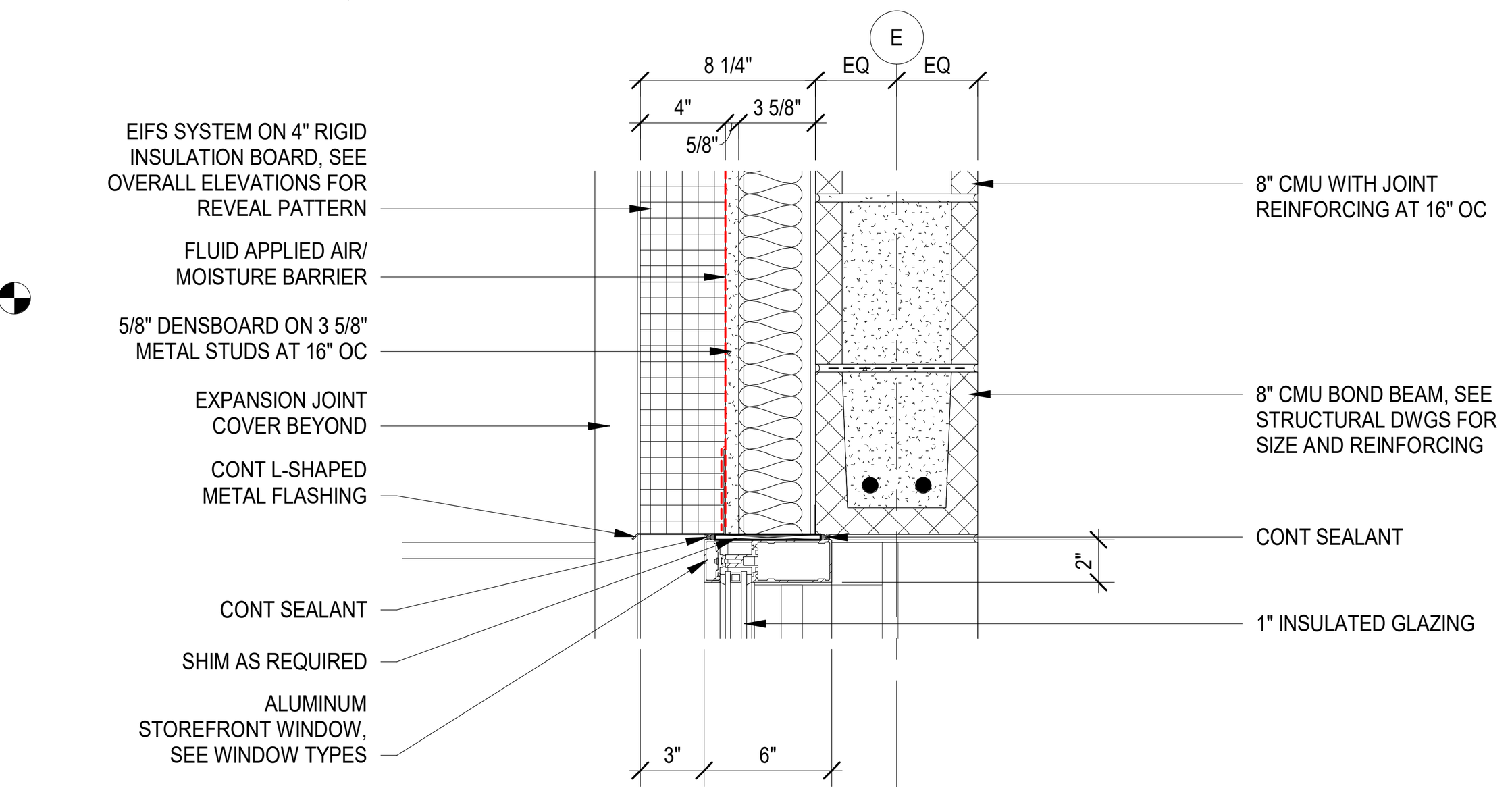
EX.0.4
1' - 11 5/8"
8" 8" 7 5/8"
EXISTING BRICK PIER BEYOND
LEVEL 1100 (871.16') 27' - 9"
EXISTING CONCRETE SLAB ON METAL DECK
2" CONCRETE SLAB ON 9/16" METAL DECK ON 6" METAL STUDS AT 16" OC
EXISTING 8" CMU WALL (3-HR RATED)
EXISTING CONCRETE SLAB, METAL DECK AND STEEL FRAMING SYSTEM
7 5/8" 1' - 4"
1' - 11 5/8"

D2 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



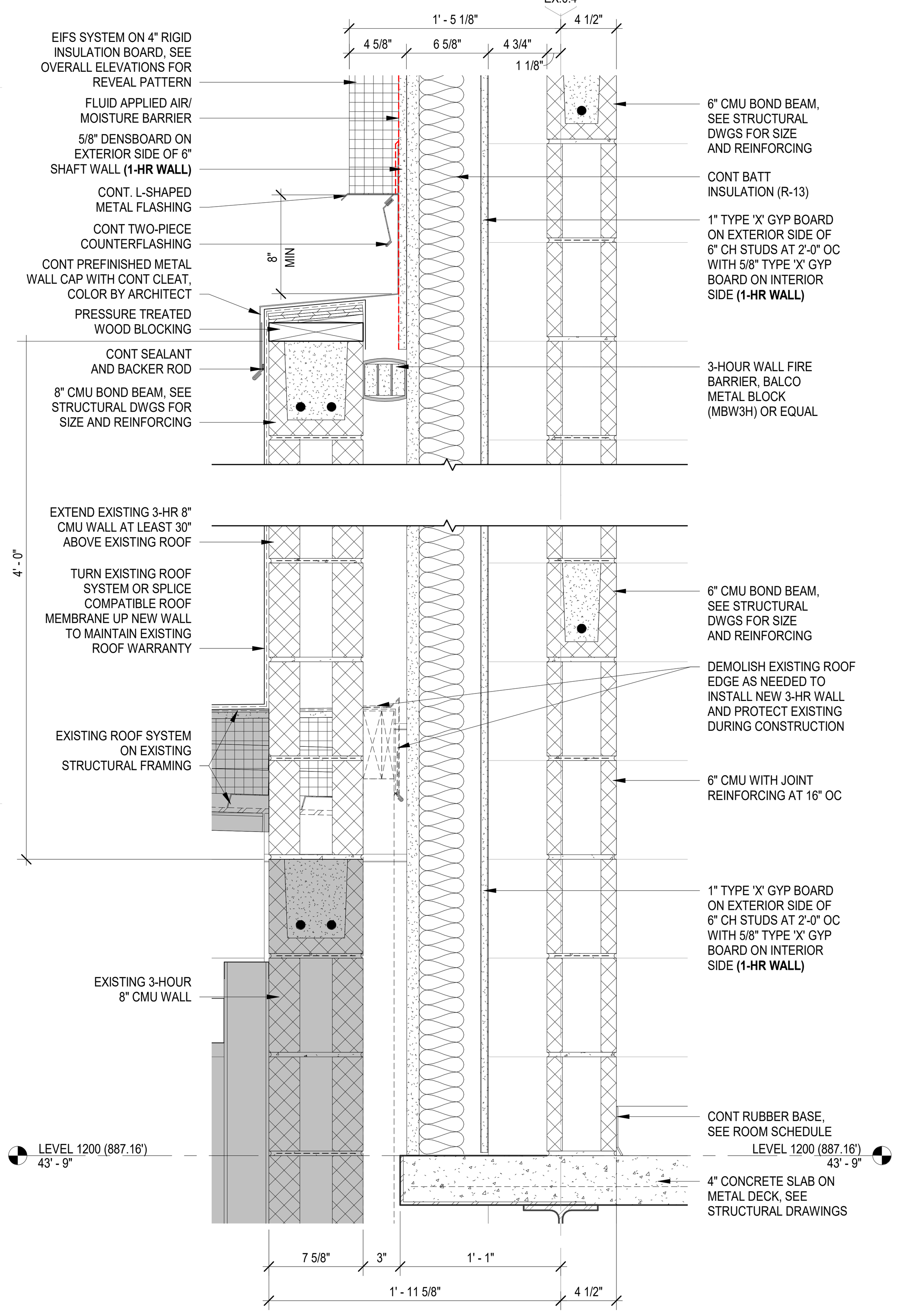
2.4 2.5
1' - 9 13/16"
1' - 0" 2" 7 13/16"
EXISTING BRICK PILASTER BEYOND
EXPANSION JOINT COVER BEYOND
CONT RUBBER BASE BEYOND, SEE ROOM SCHEDULE
LEVEL 1100 (871.16') 27' - 9"
2" CONCRETE SLAB ON 9/16" METAL DECK ON 6" METAL STUDS AT 16" OC
4" CONCRETE SLAB ON METAL DECK, SEE STRUCTURAL DRAWINGS
FLOOR EXPANSION JOINT (BALCO NO BUMP FLOOR SYSTEM FLOOR TO WALL OR EQUAL)
EXISTING CONCRETE DECK AND STRUCTURAL FRAMING SYSTEM
EXISTING CONCRETE RETAINING WALL
EXTEND EXISTING GYP BOARD AS NEEDED FOR NEW CEILING HEIGHT
ACOUSTICAL CEILING TILE AND GRID SYSTEM
ACOUSTICAL CEILING TILE AND GRID SYSTEM
5/8" TYPE 'X' GYP BOARD ON 3 5/8" METAL STUDS AT 16" OC
5/8" TYPE 'X' GYP BOARD ON 3 5/8" METAL STUDS AT 16" OC
CEILING EXPANSION JOINT COVER
EXPANSION JOINT COVER BEYOND
4" CMU (STACK BOND) WRAP AT NEW OPENING IN RETAINING WALL BEYOND
4" CMU (STACK BOND) WRAP AT NEW OPENING IN RETAINING WALL BEYOND
10" 1' - 9 13/16"
7 13/16"

C3 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



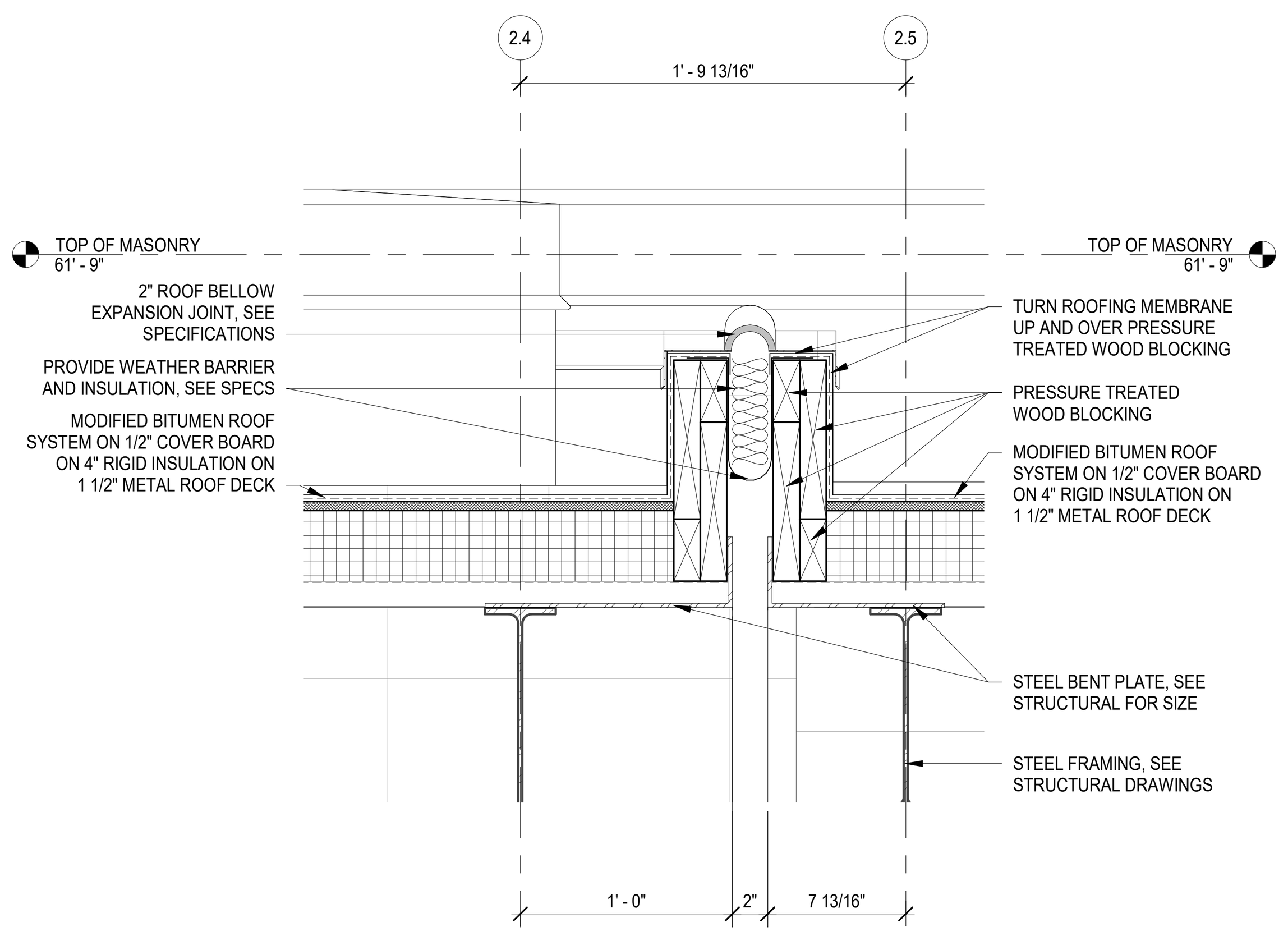
E
8 1/4" EQ EQ
4" 3 5/8"
EIFS SYSTEM ON 4" RIGID INSULATION BOARD, SEE OVERALL ELEVATIONS FOR REVEAL PATTERN
8" CMU WITH JOINT REINFORCING AT 16" OC
FLUID APPLIED AIR/ MOISTURE BARRIER
5/8" DENSBOARD ON 3 5/8" METAL STUDS AT 16" OC
EXPANSION JOINT COVER BEYOND
8" CMU BOND BEAM, SEE STRUCTURAL DWGS FOR SIZE AND REINFORCING
CONT L-SHAPED METAL FLASHING
CONT SEALANT
CONT SEALANT
1" INSULATED GLAZING
SHIM AS REQUIRED
ALUMINUM STOREFRONT WINDOW, SEE WINDOW TYPES
3" 6"

D4 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



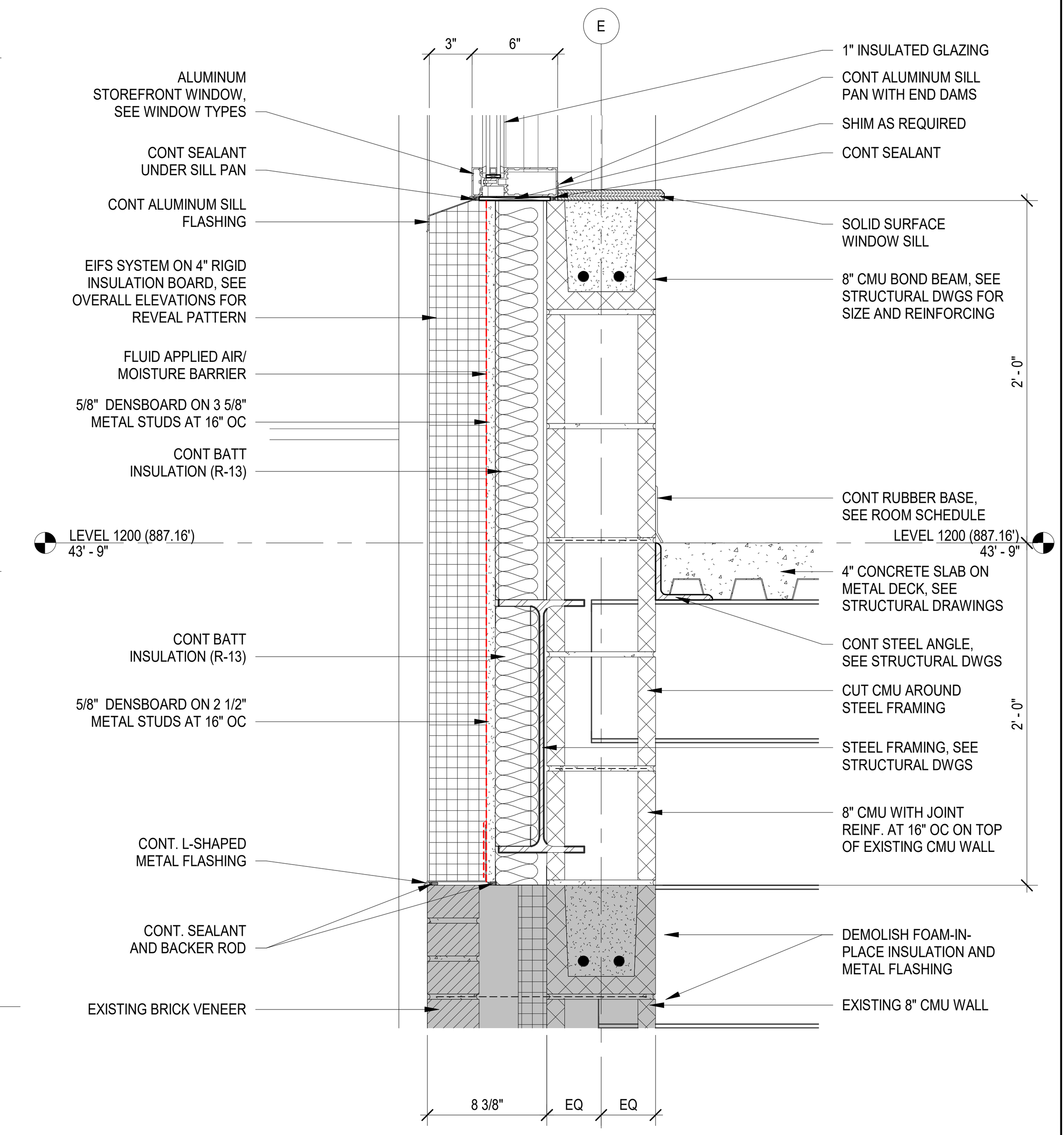
EX.0.4
1' - 5 1/8" 4 1/2"
4 5/8" 6 5/8" 4 3/4"
1 1/8"
EIFS SYSTEM ON 4" RIGID INSULATION BOARD, SEE OVERALL ELEVATIONS FOR REVEAL PATTERN
6" CMU BOND BEAM, SEE STRUCTURAL DWGS FOR SIZE AND REINFORCING
FLUID APPLIED AIR/ MOISTURE BARRIER
5/8" DENSBOARD ON EXTERIOR SIDE OF 6" SHAFT WALL (1-HR WALL)
CONT BATT INSULATION (R-13)
CONT. L-SHAPED METAL FLASHING
1" TYPE 'X' GYP BOARD ON EXTERIOR SIDE OF 6" CH STUDS AT 2'-0" OC WITH 5/8" TYPE 'X' GYP BOARD ON INTERIOR SIDE (1-HR WALL)
CONT TWO-PIECE COUNTERFLASHING
CONT PREFINISHED METAL WALL CAP WITH CONT CLEAT, COLOR BY ARCHITECT
PRESSURE TREATED WOOD BLOCKING
CONT SEALANT AND BACKER ROD
3-HOUR WALL FIRE BARRIER, BALCO METAL BLOCK (MBW3H) OR EQUAL
8" CMU BOND BEAM, SEE STRUCTURAL DWGS FOR SIZE AND REINFORCING
8" MIN
EXTEND EXISTING 3-HR 8" CMU WALL AT LEAST 30" ABOVE EXISTING ROOF
TURN EXISTING ROOF SYSTEM OR SPLICE COMPATIBLE ROOF MEMBRANE UP NEW WALL TO MAINTAIN EXISTING ROOF WARRANTY
6" CMU BOND BEAM, SEE STRUCTURAL DWGS FOR SIZE AND REINFORCING
DEMOLISH EXISTING ROOF EDGE AS NEEDED TO INSTALL NEW 3-HR WALL AND PROTECT EXISTING DURING CONSTRUCTION
EXISTING ROOF SYSTEM ON EXISTING STRUCTURAL FRAMING
6" CMU WITH JOINT REINFORCING AT 16" OC
4' - 0"
1" TYPE 'X' GYP BOARD ON EXTERIOR SIDE OF 6" CH STUDS AT 2'-0" OC WITH 5/8" TYPE 'X' GYP BOARD ON INTERIOR SIDE (1-HR WALL)
EXISTING 3-HOUR 8" CMU WALL
CONT RUBBER BASE, SEE ROOM SCHEDULE
LEVEL 1200 (887.16') 43' - 9"
4" CONCRETE SLAB ON METAL DECK, SEE STRUCTURAL DRAWINGS
7 5/8" 3" 1' - 1"
1' - 11 5/8" 4 1/2"

B1 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



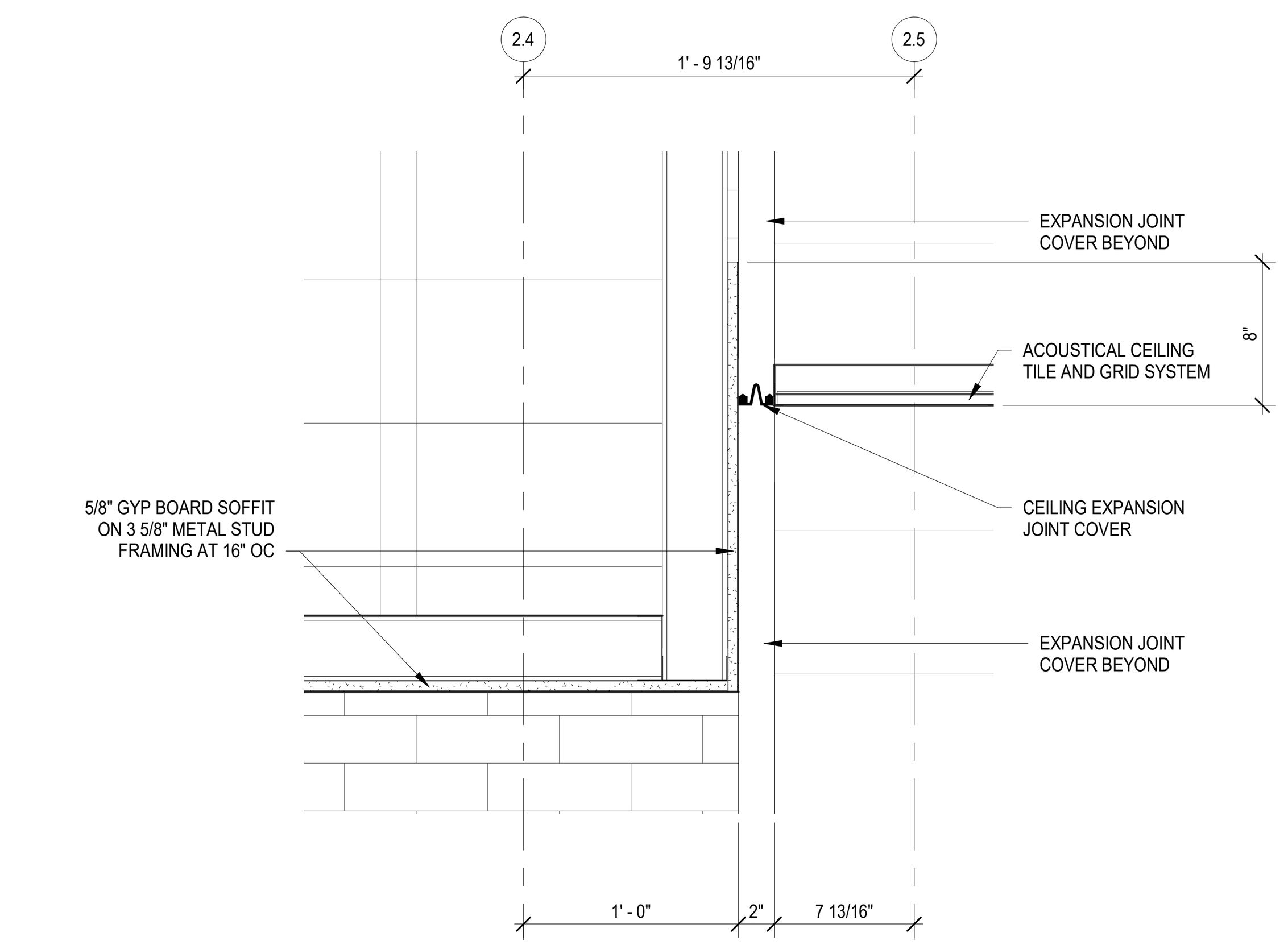
2.4 2.5
1' - 9 13/16"
TOP OF MASONRY 61' - 9"
2" ROOF BELLOW EXPANSION JOINT, SEE SPECIFICATIONS
TURN ROOFING MEMBRANE UP AND OVER PRESSURE TREATED WOOD BLOCKING
PROVIDE WEATHER BARRIER AND INSULATION, SEE SPECS
PRESSURE TREATED WOOD BLOCKING
MODIFIED BITUMEN ROOF SYSTEM ON 1/2" COVER BOARD ON 4" RIGID INSULATION ON 1 1/2" METAL ROOF DECK
MODIFIED BITUMEN ROOF SYSTEM ON 1/2" COVER BOARD ON 4" RIGID INSULATION ON 1 1/2" METAL ROOF DECK
STEEL BENT PLATE, SEE STRUCTURAL FOR SIZE
STEEL FRAMING, SEE STRUCTURAL DRAWINGS
1' - 0" 2" 7 13/16"

C2 **SECTION DETAIL**
A610 1 1/2" = 1'-0"

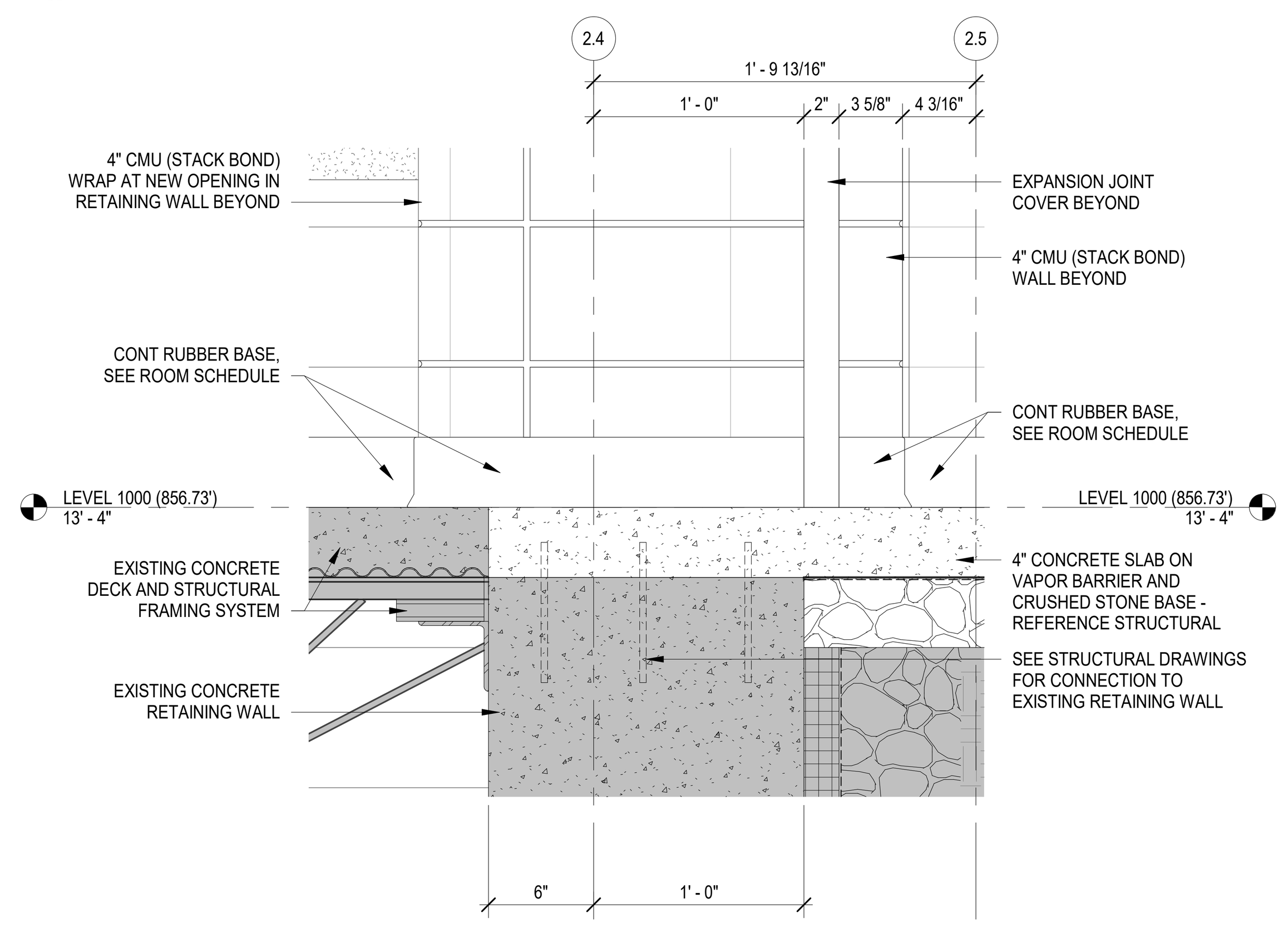


E
3" 6"
ALUMINUM STOREFRONT WINDOW, SEE WINDOW TYPES
1" INSULATED GLAZING
CONT ALUMINUM SILL PAN WITH END DAMS
SHIM AS REQUIRED
CONT SEALANT UNDER SILL PAN
CONT SEALANT
CONT ALUMINUM SILL FLASHING
SOLID SURFACE WINDOW SILL
EIFS SYSTEM ON 4" RIGID INSULATION BOARD, SEE OVERALL ELEVATIONS FOR REVEAL PATTERN
8" CMU BOND BEAM, SEE STRUCTURAL DWGS FOR SIZE AND REINFORCING
FLUID APPLIED AIR/ MOISTURE BARRIER
5/8" DENSBOARD ON 3 5/8" METAL STUDS AT 16" OC
CONT BATT INSULATION (R-13)
CONT RUBBER BASE, SEE ROOM SCHEDULE
LEVEL 1200 (887.16') 43' - 9"
4" CONCRETE SLAB ON METAL DECK, SEE STRUCTURAL DRAWINGS
CONT STEEL ANGLE, SEE STRUCTURAL DWGS
CONT BATT INSULATION (R-13)
CUT CMU AROUND STEEL FRAMING
5/8" DENSBOARD ON 2 1/2" METAL STUDS AT 16" OC
STEEL FRAMING, SEE STRUCTURAL DWGS
8" CMU WITH JOINT REINF. AT 16" OC ON TOP OF EXISTING CMU WALL
CONT. L-SHAPED METAL FLASHING
CONT. SEALANT AND BACKER ROD
DEMOLISH FOAM-IN-PLACE INSULATION AND METAL FLASHING
EXISTING BRICK VENEER
EXISTING 8" CMU WALL
2' - 0"
2' - 0"
8 3/8" EQ EQ

C4 **SECTION DETAIL**
A610 1 1/2" = 1'-0"

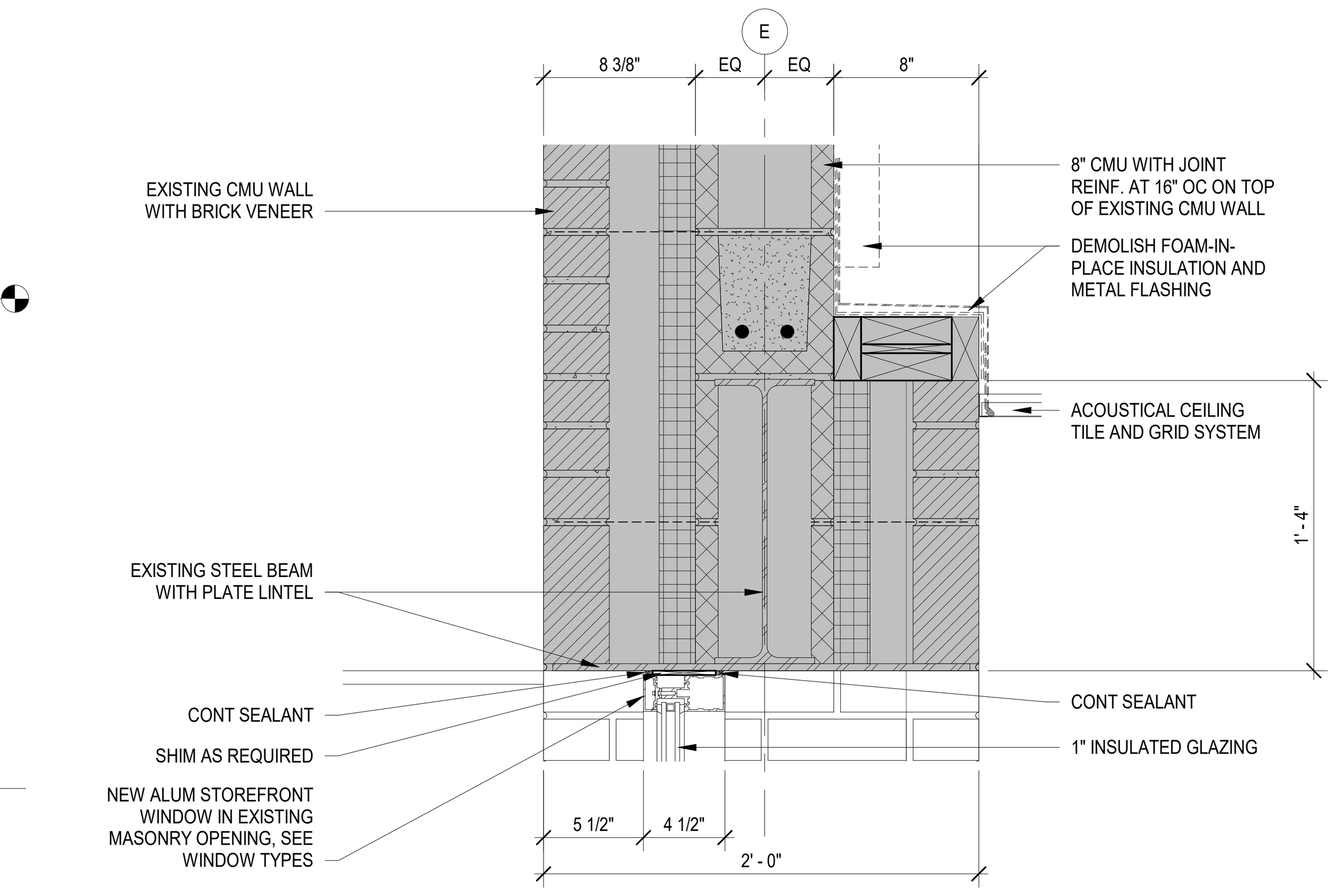


B2 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



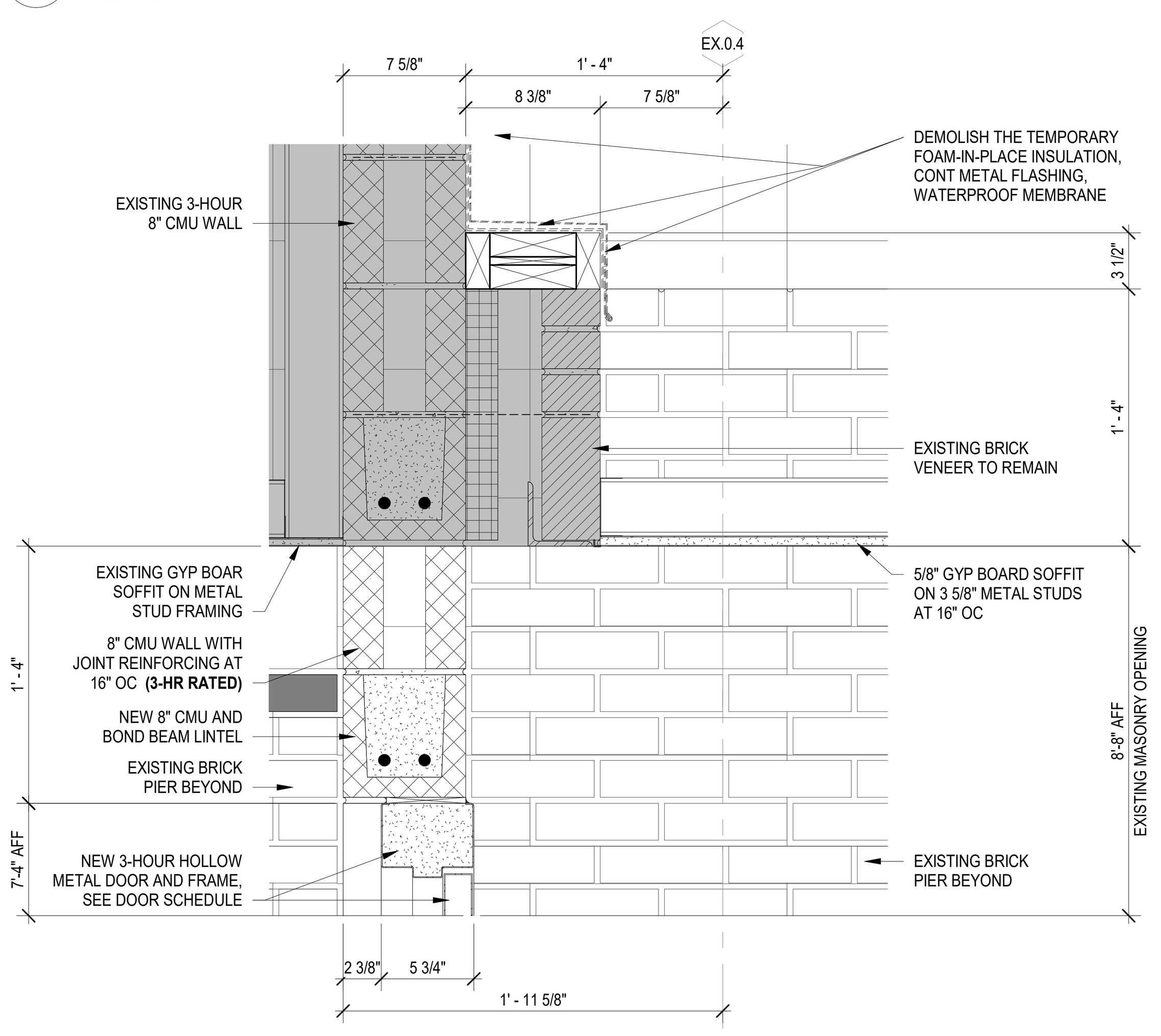
2.4 2.5
1' - 9 13/16"
1' - 0" 2" 3 5/8" 4 3/16"
4" CMU (STACK BOND) WRAP AT NEW OPENING IN RETAINING WALL BEYOND
EXPANSION JOINT COVER BEYOND
4" CMU (STACK BOND) WALL BEYOND
CONT RUBBER BASE, SEE ROOM SCHEDULE
CONT RUBBER BASE, SEE ROOM SCHEDULE
LEVEL 1000 (856.73') 13' - 4"
EXISTING CONCRETE DECK AND STRUCTURAL FRAMING SYSTEM
4" CONCRETE SLAB ON VAPOR BARRIER AND CRUSHED STONE BASE - REFERENCE STRUCTURAL
SEE STRUCTURAL DRAWINGS FOR CONNECTION TO EXISTING RETAINING WALL
EXISTING CONCRETE RETAINING WALL
6" 1' - 0"

B3 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



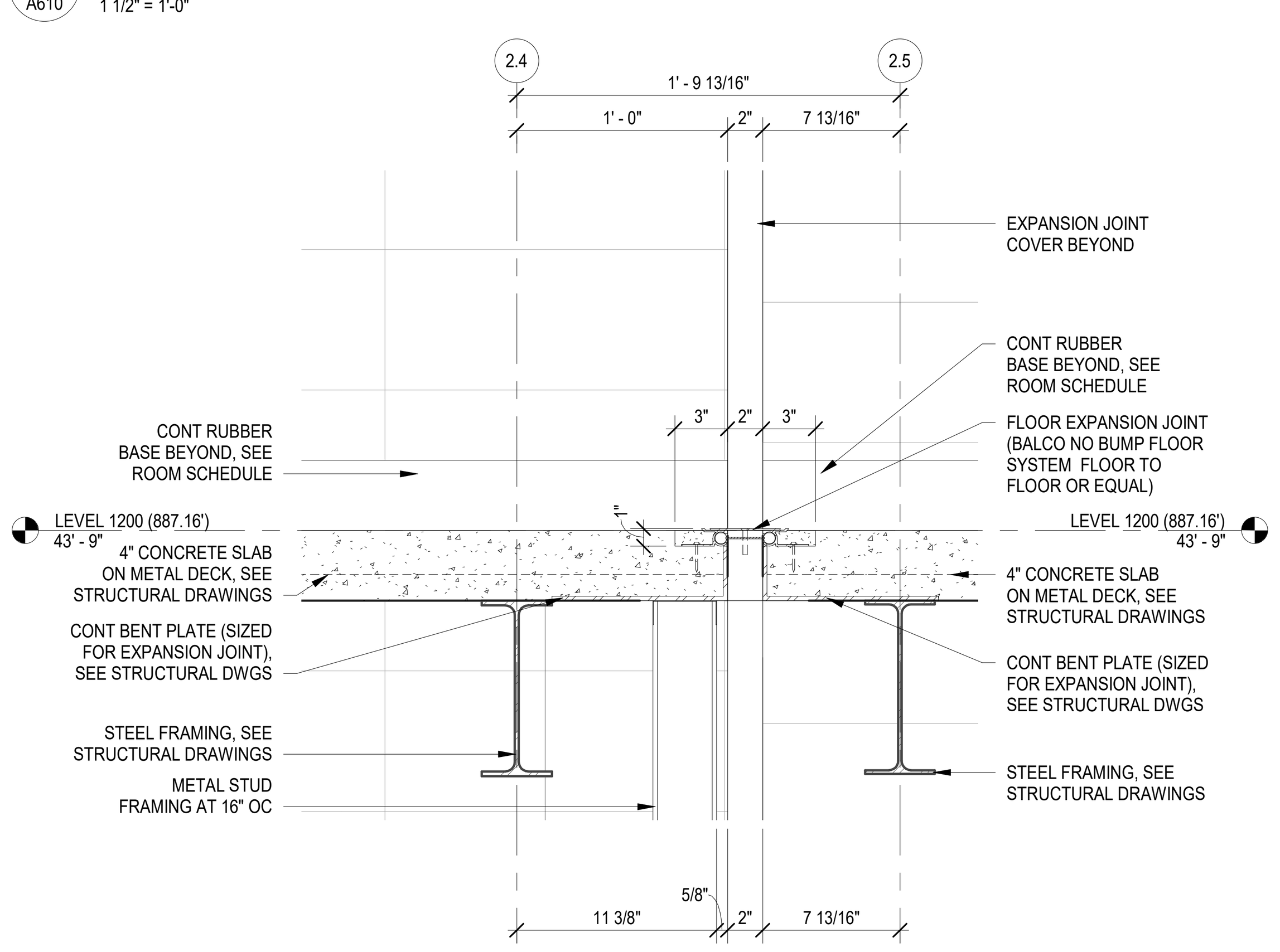
E
8 3/8" EQ EQ 8"
EXISTING CMU WALL WITH BRICK VENEER
8" CMU WITH JOINT REINF. AT 16" OC ON TOP OF EXISTING CMU WALL
DEMOLISH FOAM-IN-PLACE INSULATION AND METAL FLASHING
ACOUSTICAL CEILING TILE AND GRID SYSTEM
1' - 4"
EXISTING STEEL BEAM WITH PLATE LINTEL
CONT SEALANT
CONT SEALANT
SHIM AS REQUIRED
1" INSULATED GLAZING
NEW ALUM STOREFRONT WINDOW IN EXISTING MASONRY OPENING, SEE WINDOW TYPES
5 1/2" 4 1/2"
2' - 0"

B4 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



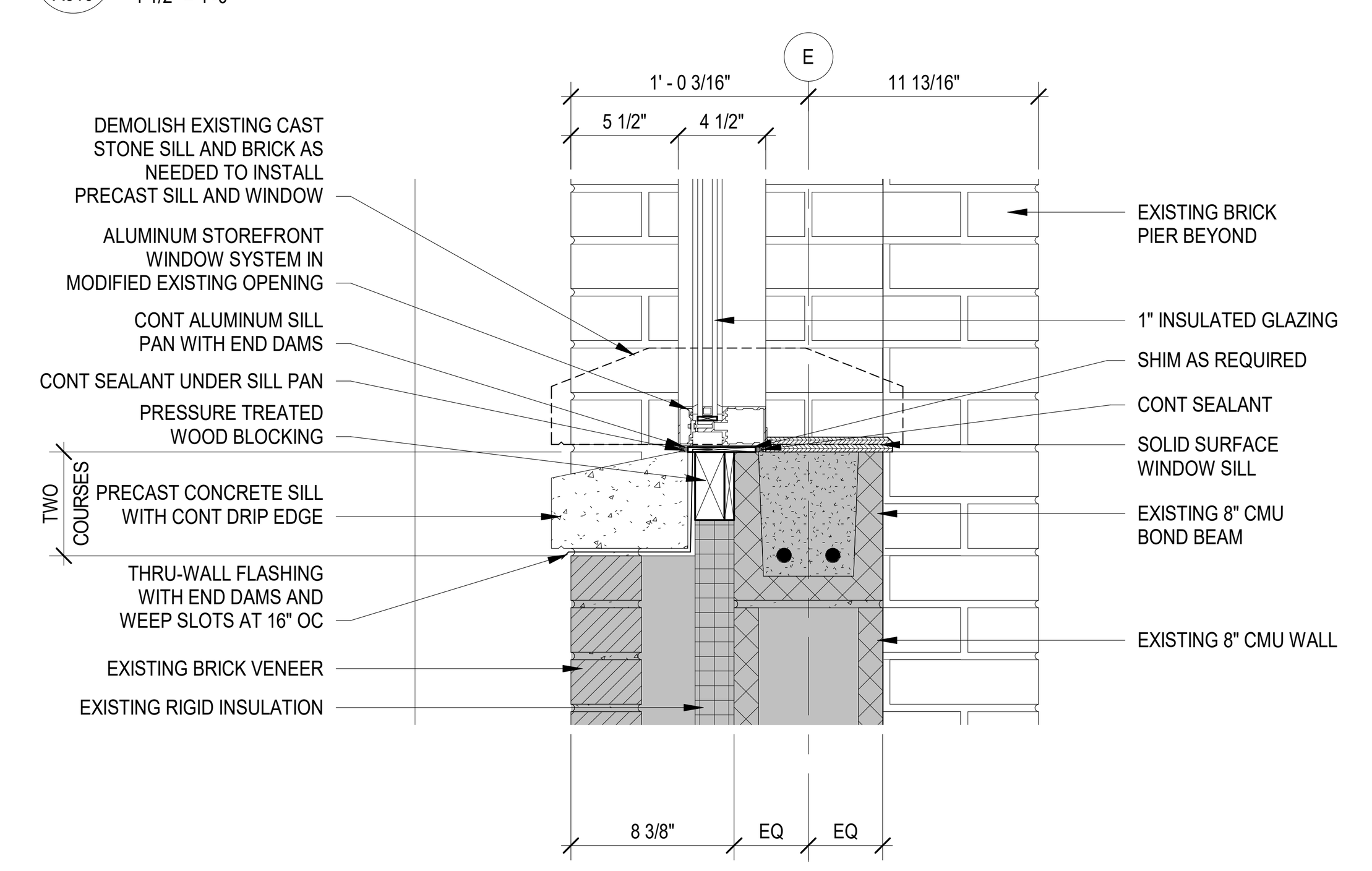
EX.0.4
7 5/8" 1' - 4"
8 3/8" 7 5/8"
EXISTING 3-HOUR 8" CMU WALL
DEMOLISH THE TEMPORARY FOAM-IN-PLACE INSULATION, CONT METAL FLASHING, WATERPROOF MEMBRANE
3 1/2"
1' - 4"
EXISTING BRICK VENEER TO REMAIN
EXISTING GYP BOAR SOFFIT ON METAL STUD FRAMING
5/8" GYP BOARD SOFFIT ON 3 5/8" METAL STUDS AT 16" OC
8" CMU WALL WITH JOINT REINFORCING AT 16" OC (3-HR RATED)
NEW 8" CMU AND BOND BEAM LINTEL
EXISTING BRICK PIER BEYOND
NEW 3-HOUR HOLLOW METAL DOOR AND FRAME, SEE DOOR SCHEDULE
EXISTING BRICK PIER BEYOND
1' - 4"
7'-4" AFF
8'-8" AFF EXISTING MASONRY OPENING
2 3/8" 5 3/4"
1' - 11 5/8"

A1 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



2.4 2.5
1' - 9 13/16"
1' - 0" 2" 7 13/16"
EXPANSION JOINT COVER BEYOND
CONT RUBBER BASE, SEE ROOM SCHEDULE
3" 3"
FLOOR EXPANSION JOINT (BALCO NO BUMP FLOOR SYSTEM FLOOR TO FLOOR OR EQUAL)
CONT RUBBER BASE BEYOND, SEE ROOM SCHEDULE
LEVEL 1200 (887.16') 43' - 9"
4" CONCRETE SLAB ON METAL DECK, SEE STRUCTURAL DRAWINGS
4" CONCRETE SLAB ON METAL DECK, SEE STRUCTURAL DRAWINGS
CONT BENT PLATE (SIZED FOR EXPANSION JOINT), SEE STRUCTURAL DWGS
CONT BENT PLATE (SIZED FOR EXPANSION JOINT), SEE STRUCTURAL DWGS
STEEL FRAMING, SEE STRUCTURAL DRAWINGS
STEEL FRAMING, SEE STRUCTURAL DRAWINGS
METAL STUD FRAMING AT 16" OC
5/8"
11 3/8" 2" 7 13/16"

A2 **SECTION DETAIL**
A610 1 1/2" = 1'-0"



E
1' - 0 3/16" 11 13/16"
5 1/2" 4 1/2"
DEMOLISH EXISTING CAST STONE SILL AND BRICK AS NEEDED TO INSTALL PRECAST SILL AND WINDOW
EXISTING BRICK PIER BEYOND
ALUMINUM STOREFRONT WINDOW SYSTEM IN MODIFIED EXISTING OPENING
1" INSULATED GLAZING
CONT ALUMINUM SILL PAN WITH END DAMS
SHIM AS REQUIRED
CONT SEALANT UNDER SILL PAN
CONT SEALANT
PRESSURE TREATED WOOD BLOCKING
SOLID SURFACE WINDOW SILL
TWO COURSES
PRECAST CONCRETE SILL WITH CONT DRIP EDGE
EXISTING 8" CMU BOND BEAM
THRU-WALL FLASHING WITH END DAMS AND WEEP SLOTS AT 16" OC
EXISTING 8" CMU WALL
EXISTING BRICK VENEER
EXISTING RIGID INSULATION
8 3/8" EQ EQ

A4 **SECTION DETAIL**
A610 1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

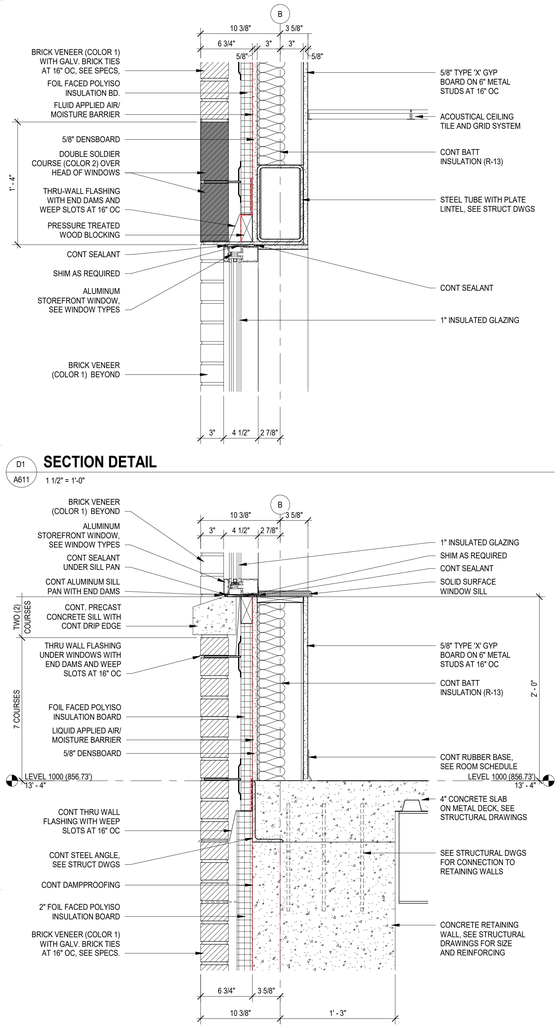
SHEET TITLE:
SECTION DETAILS

SHEET NO. PROJ. NO. 020420.00

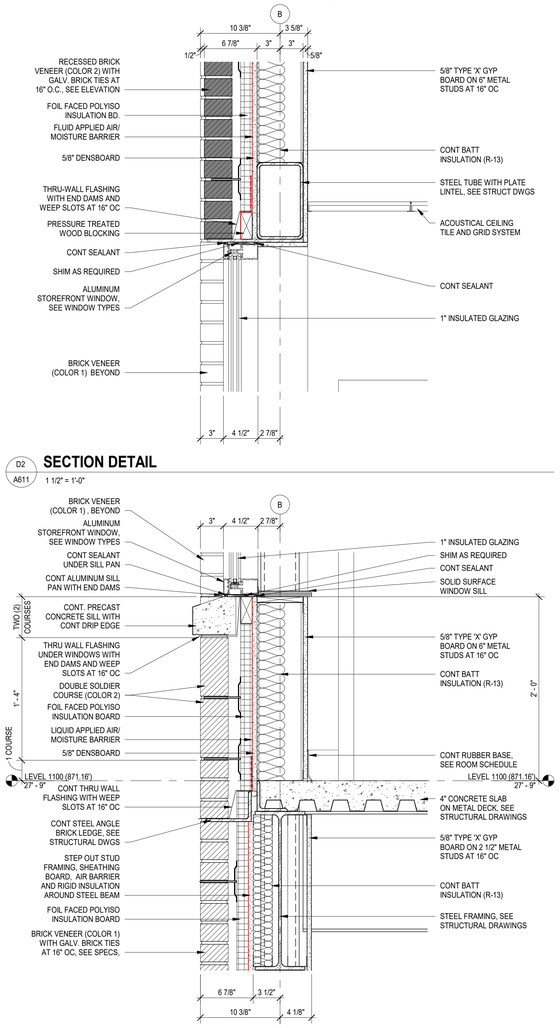
A610

1 2 3 4 5

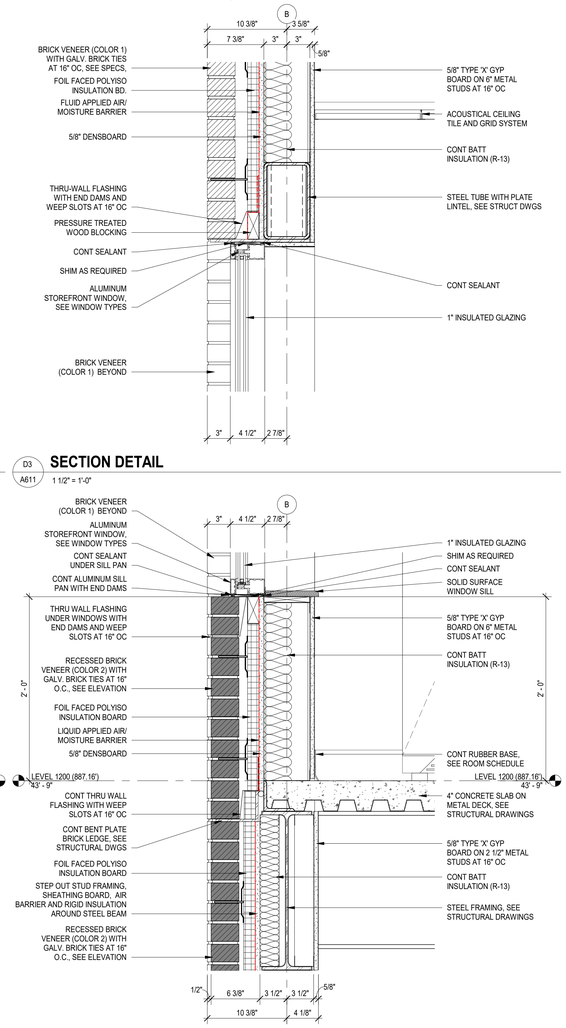
D1 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"



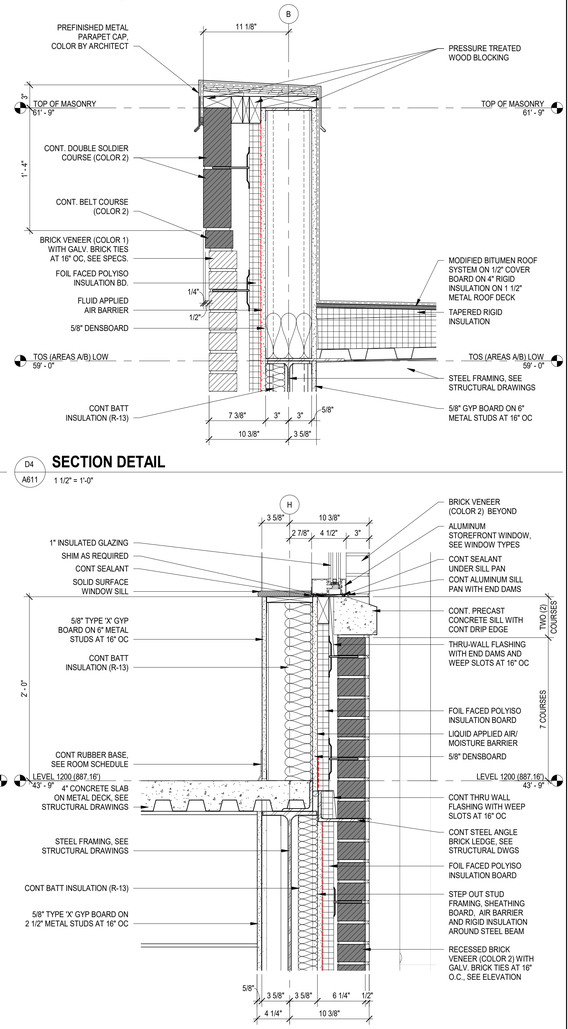
D2 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"



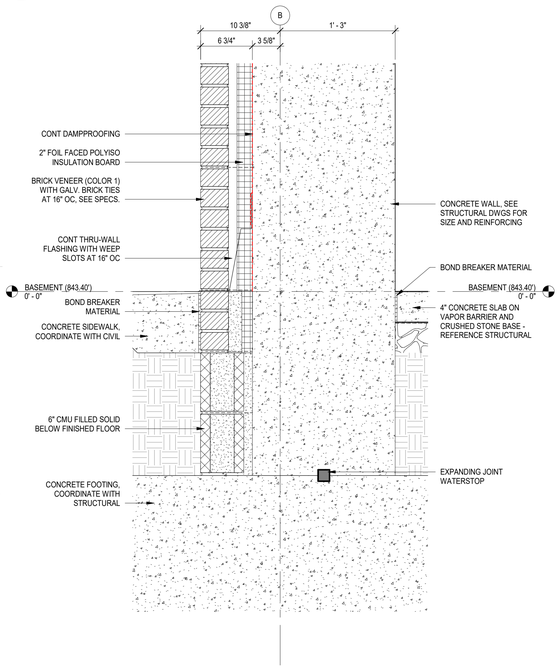
D3 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"



D4 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

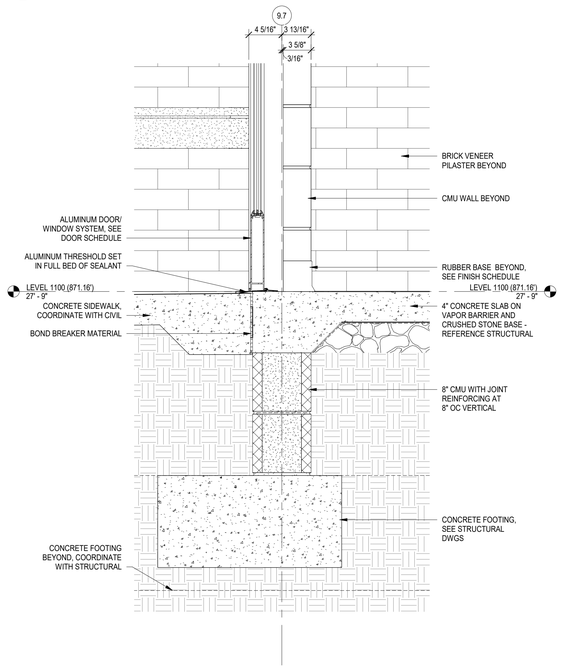


B1 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

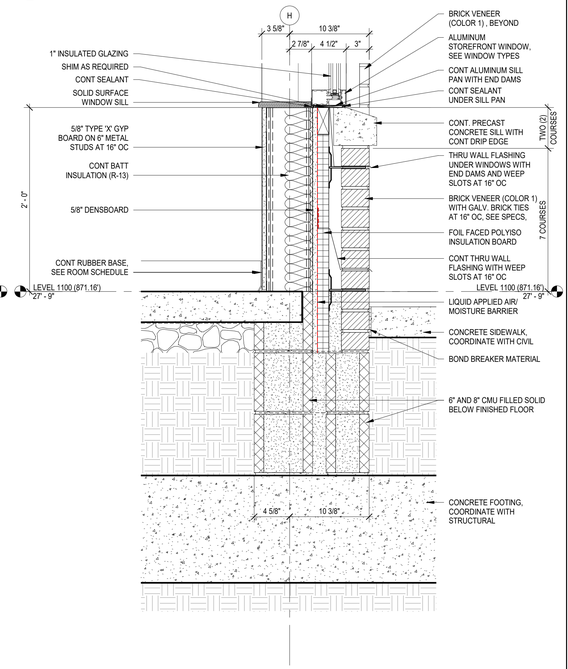


B2 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

B3 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"



B4 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"



A1 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

A3 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

A4 / A611 **SECTION DETAIL** 1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

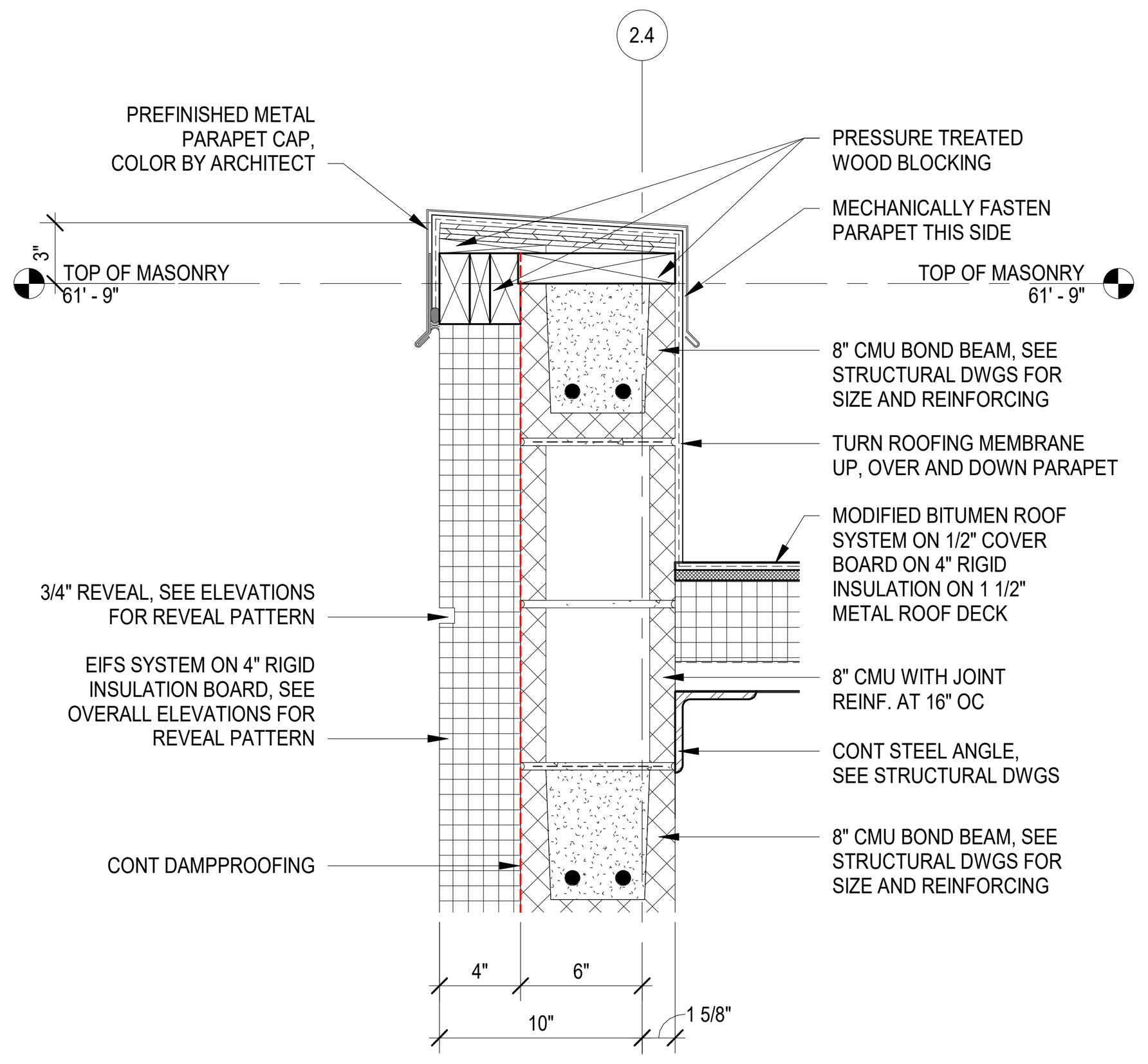
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

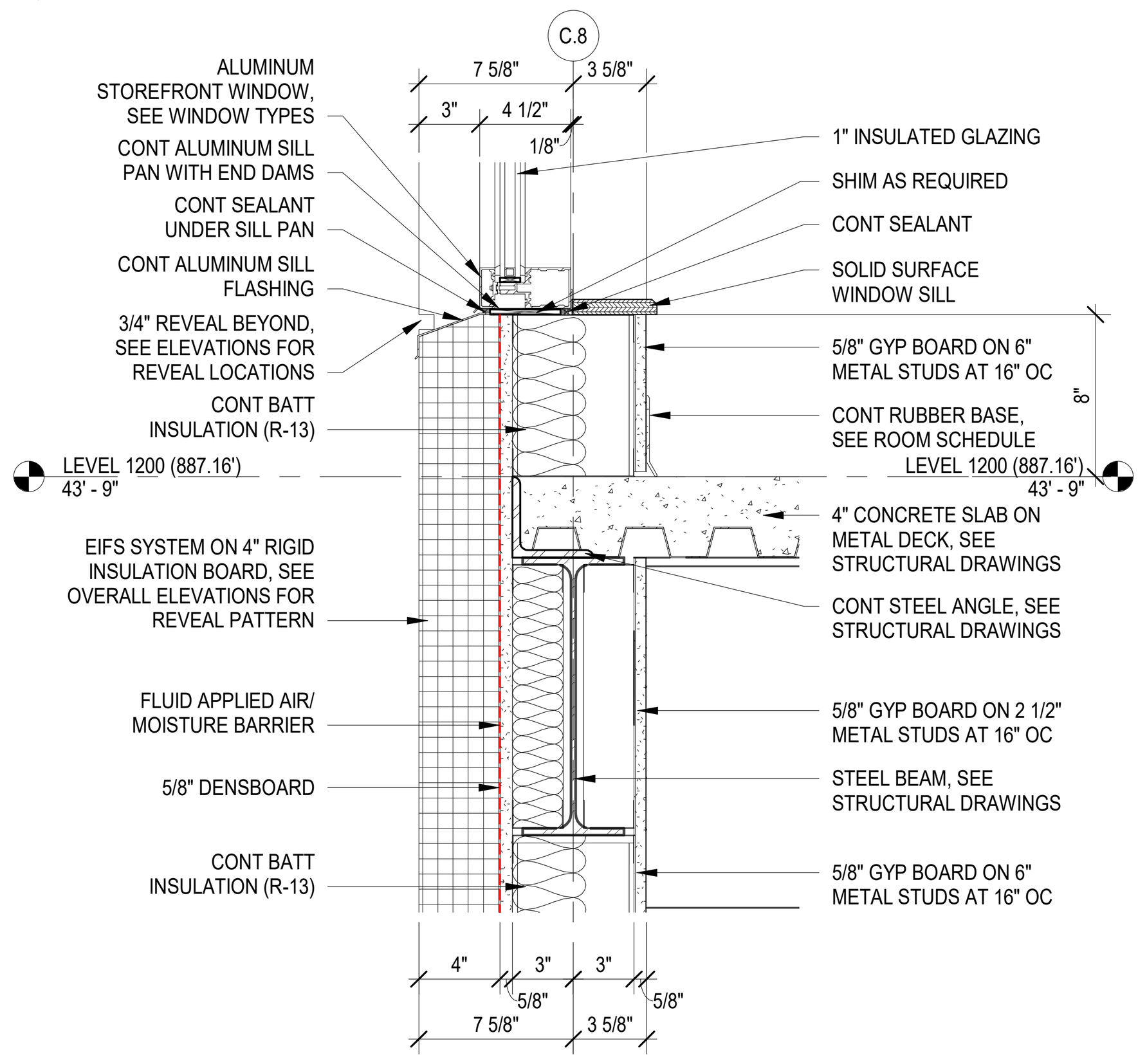
SHEET TITLE:
SECTION DETAILS

SHEET NO. A611

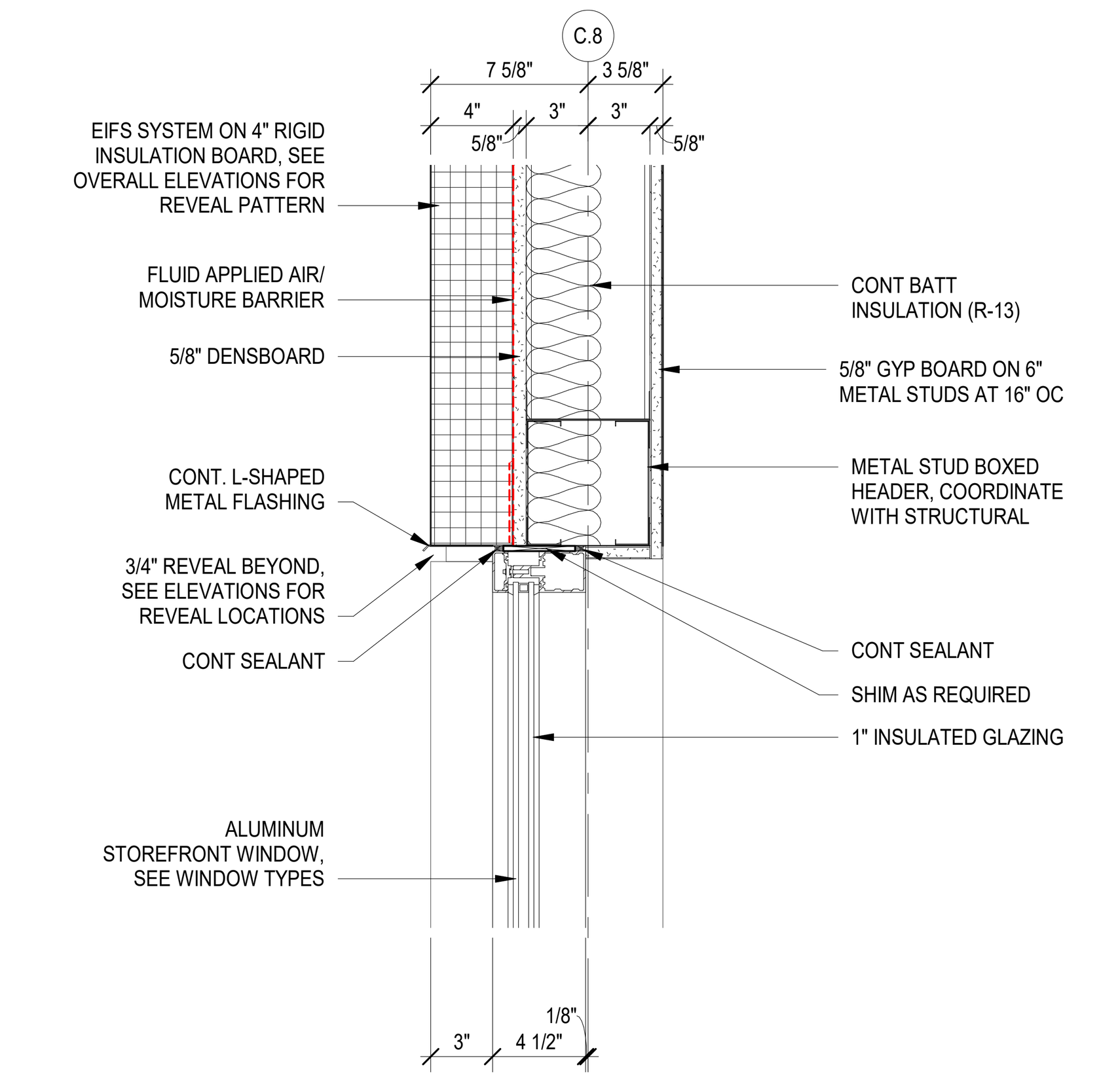
PROJ. NO. 020420.00



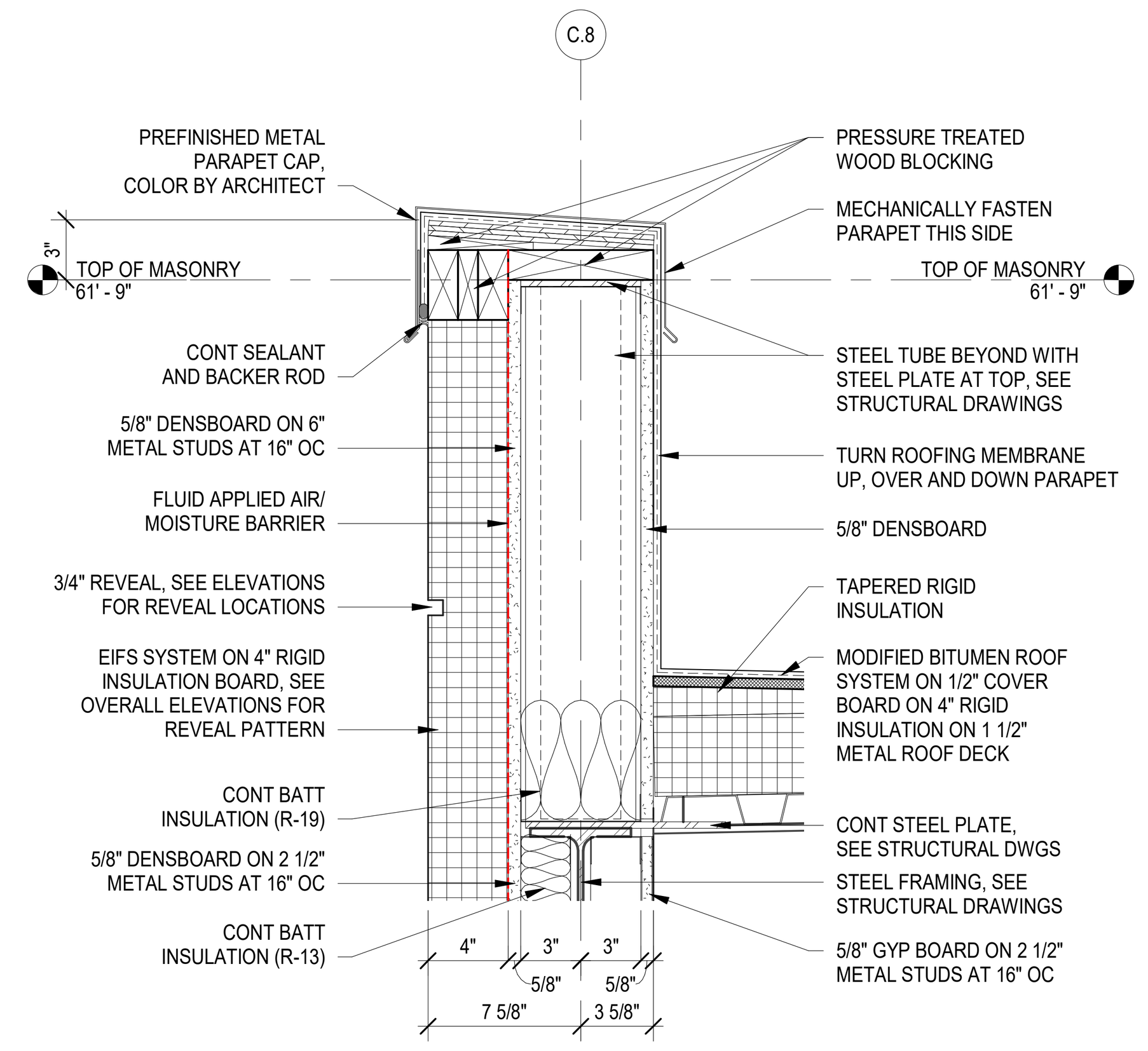
D1 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



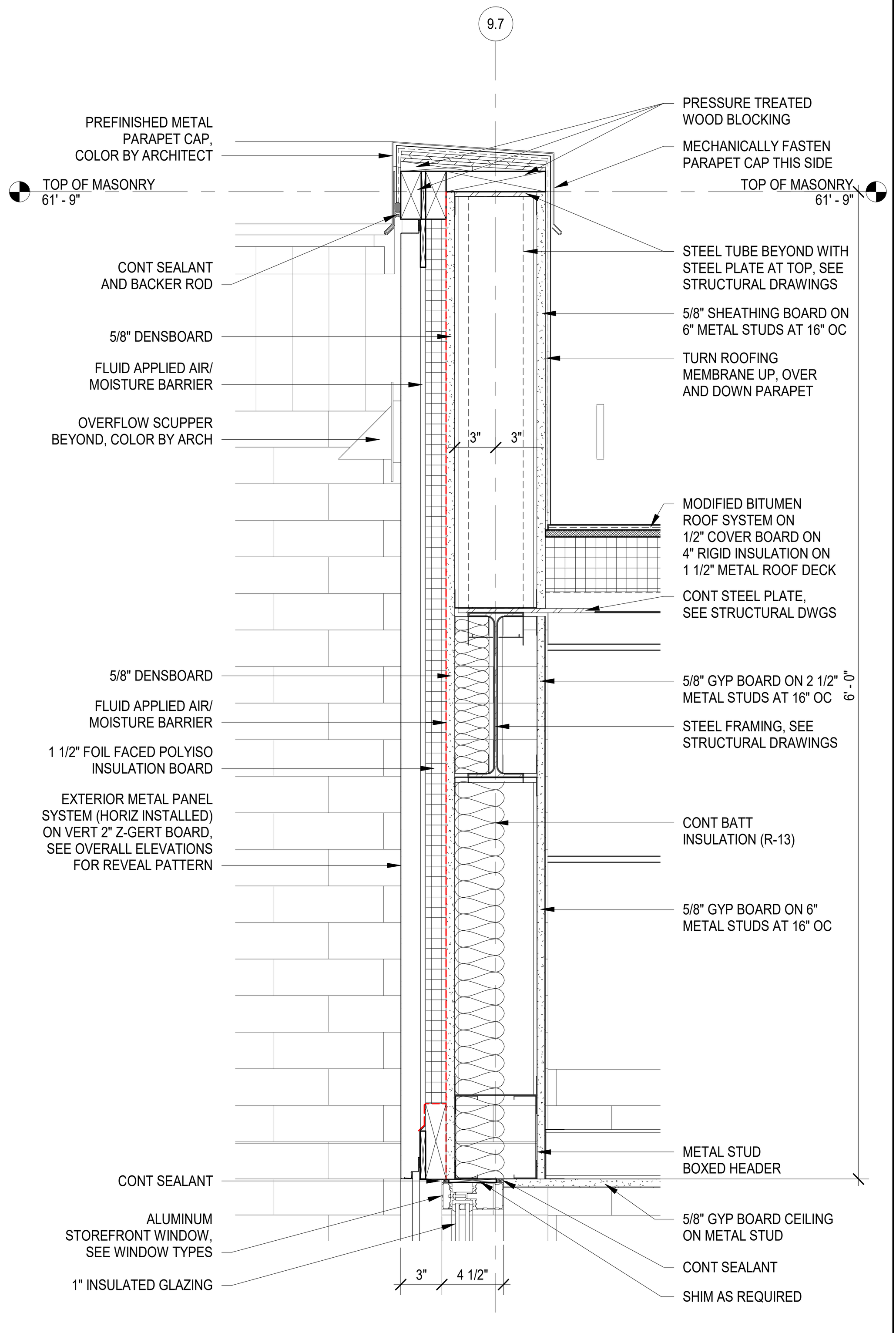
D2 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



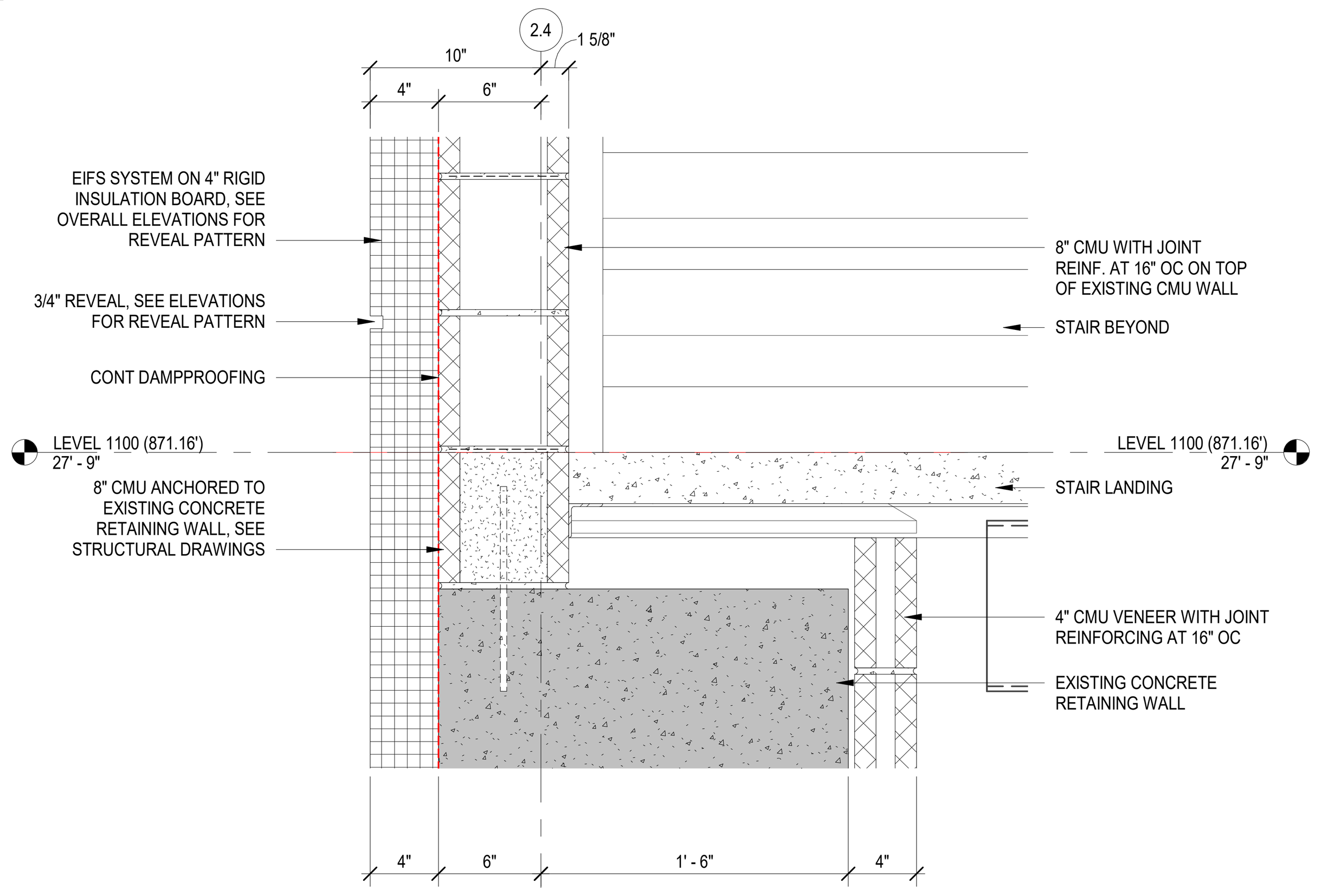
D3 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



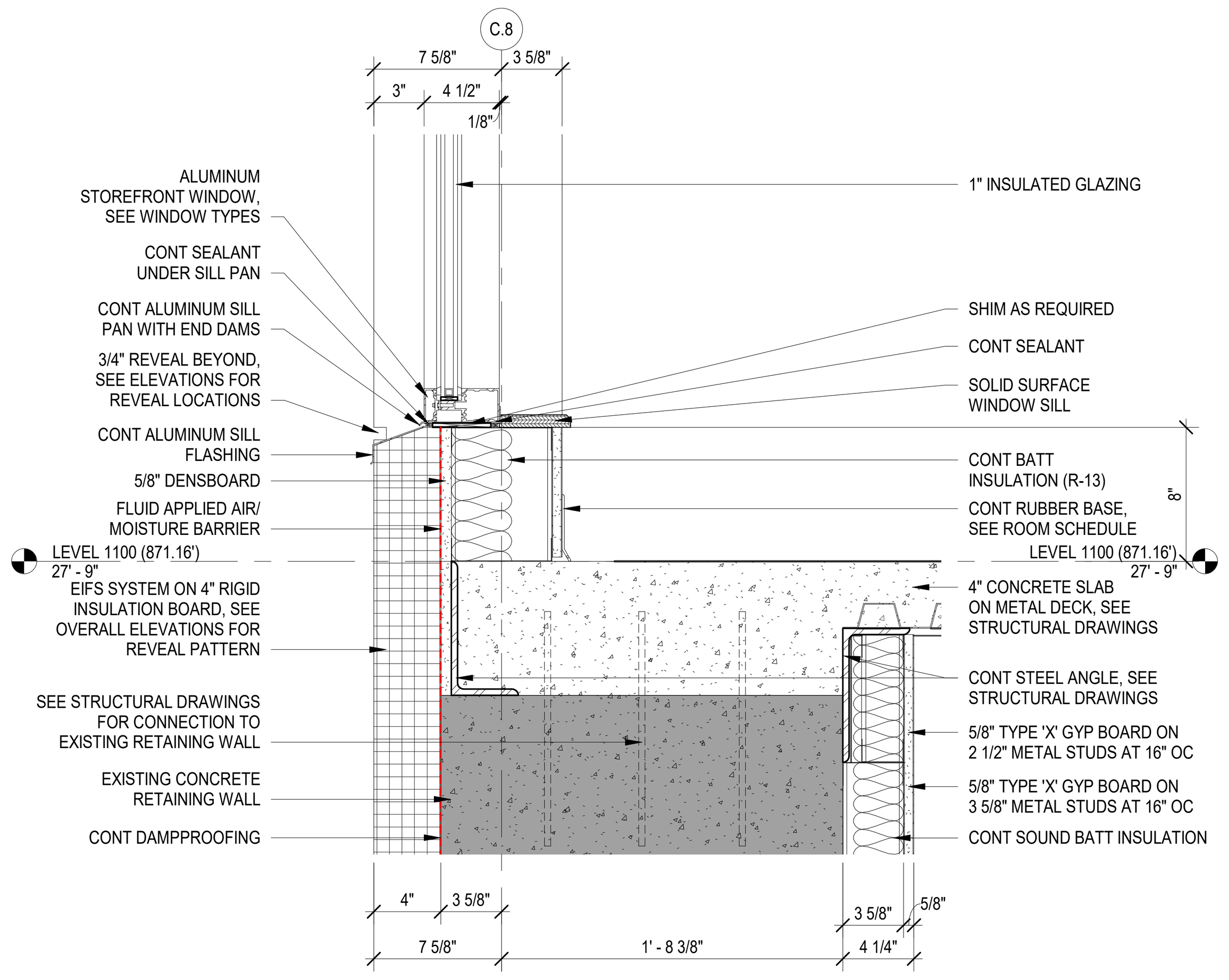
D4 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



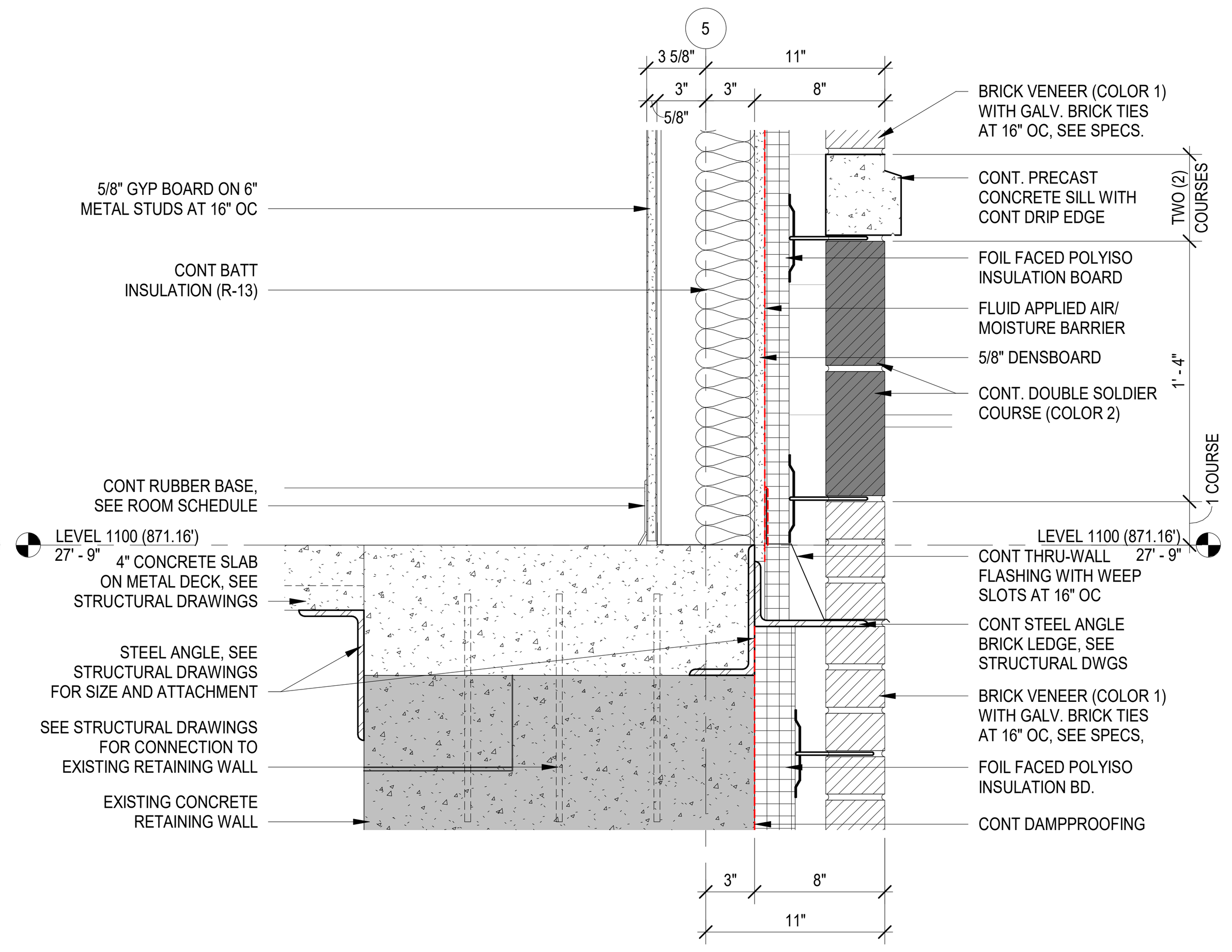
C5 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



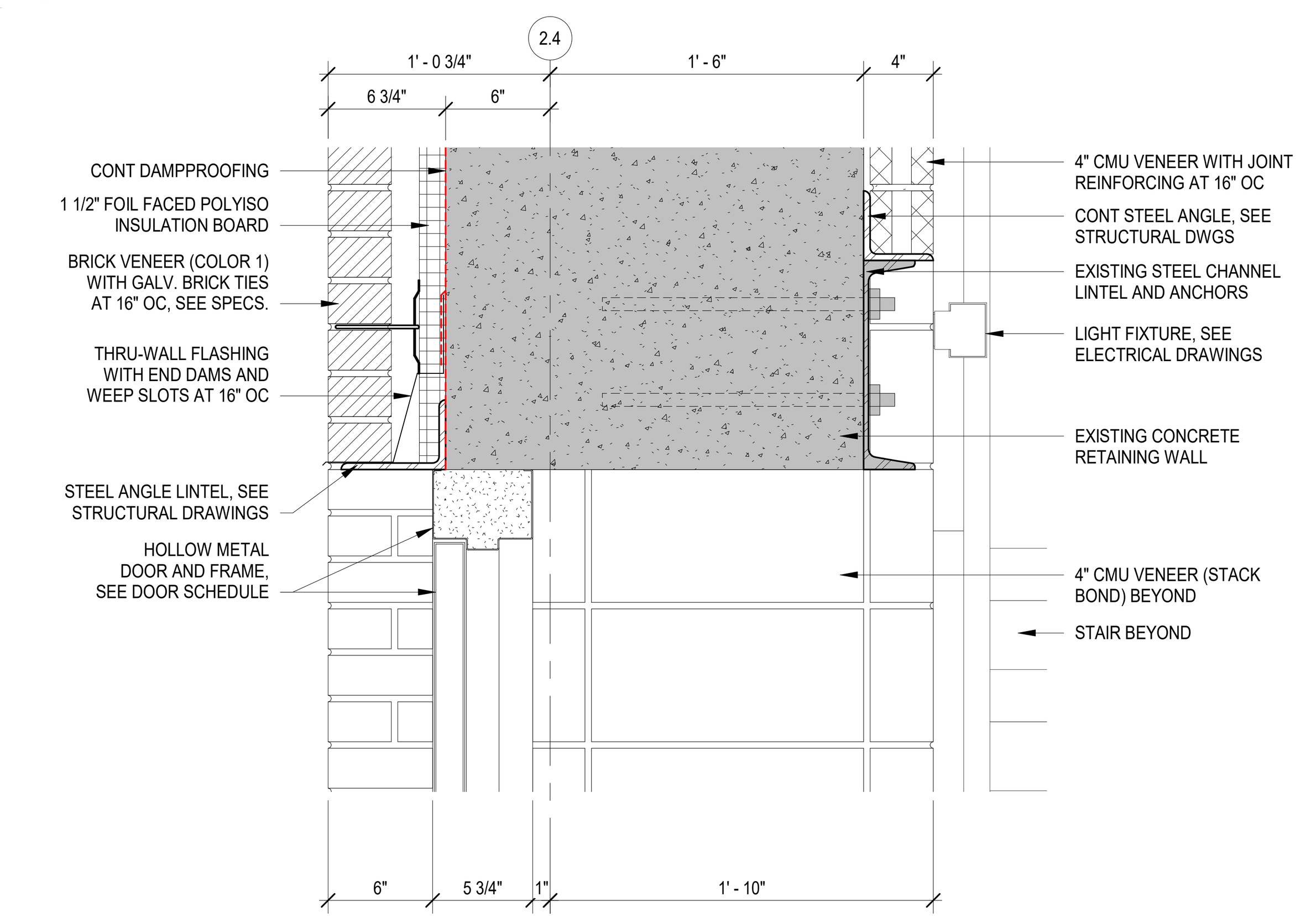
C1 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



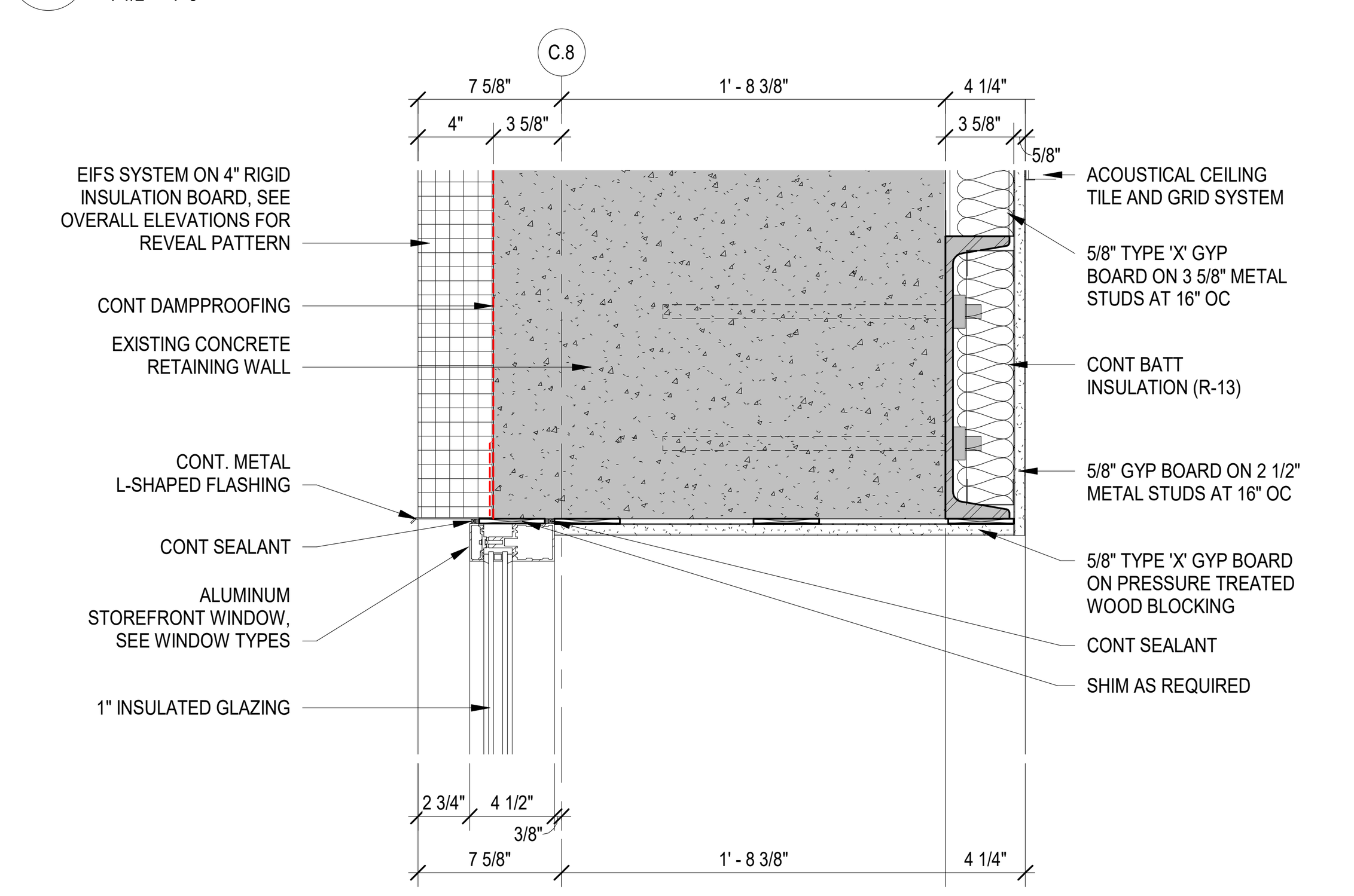
C2 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



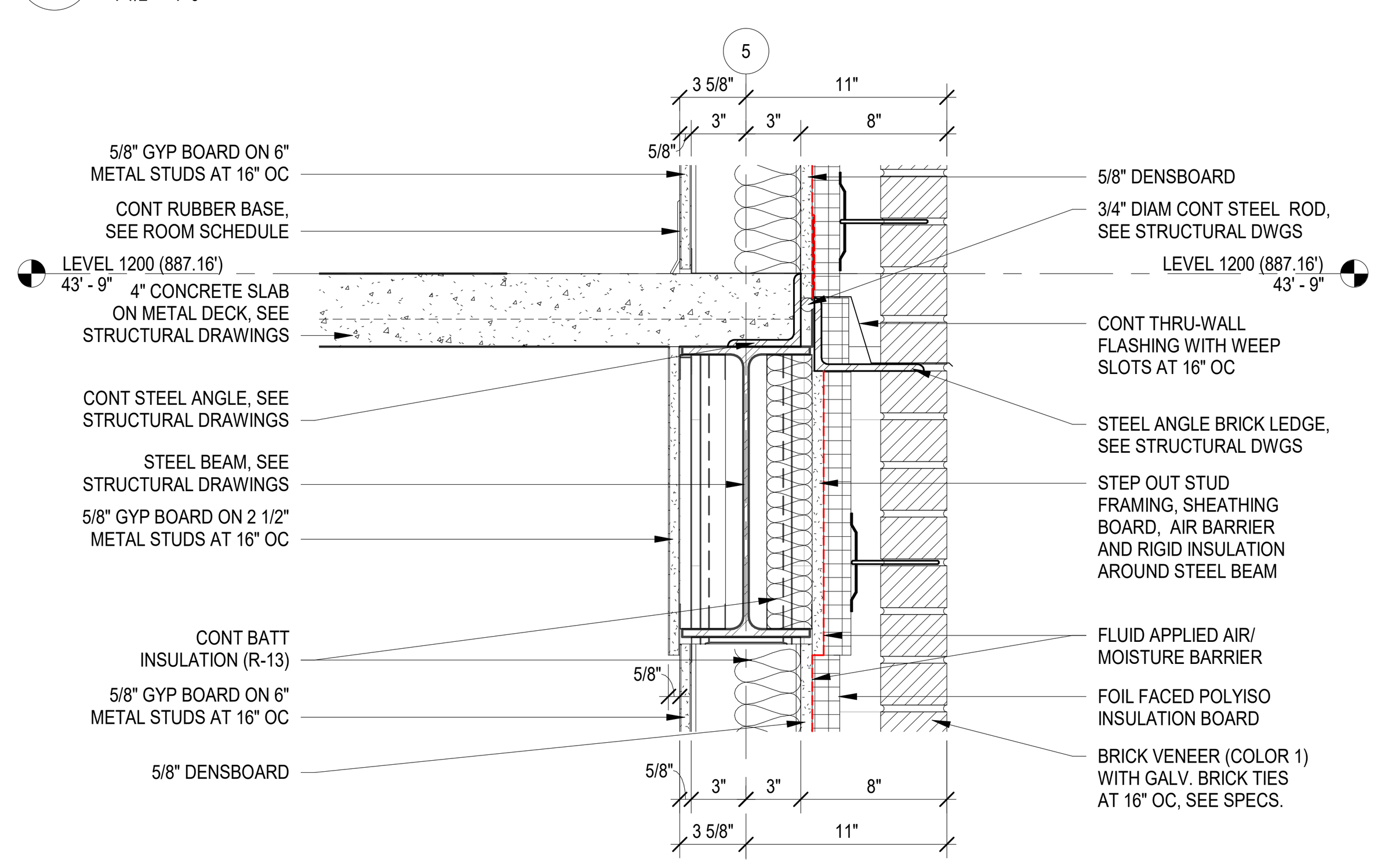
C3 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



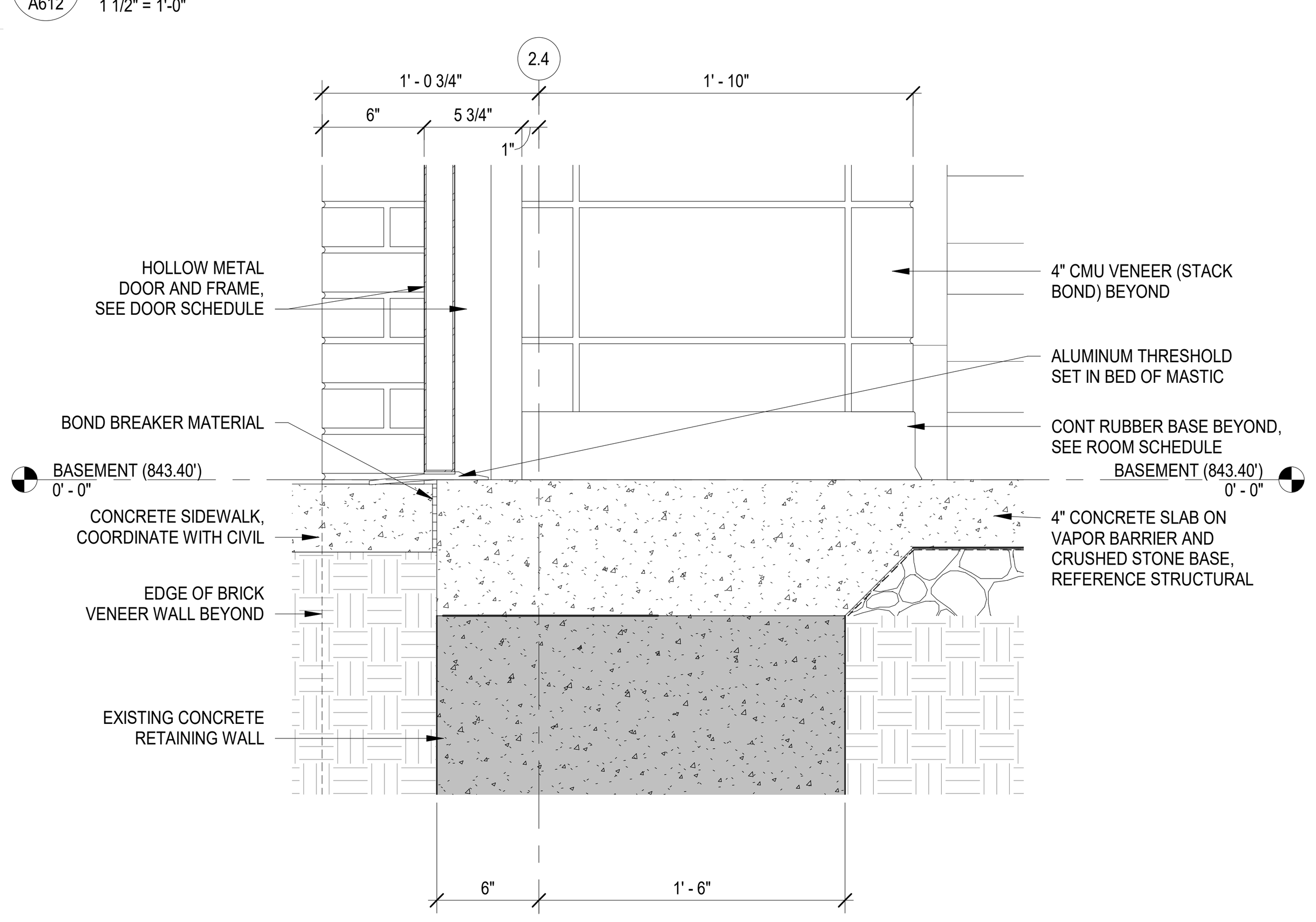
B1 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



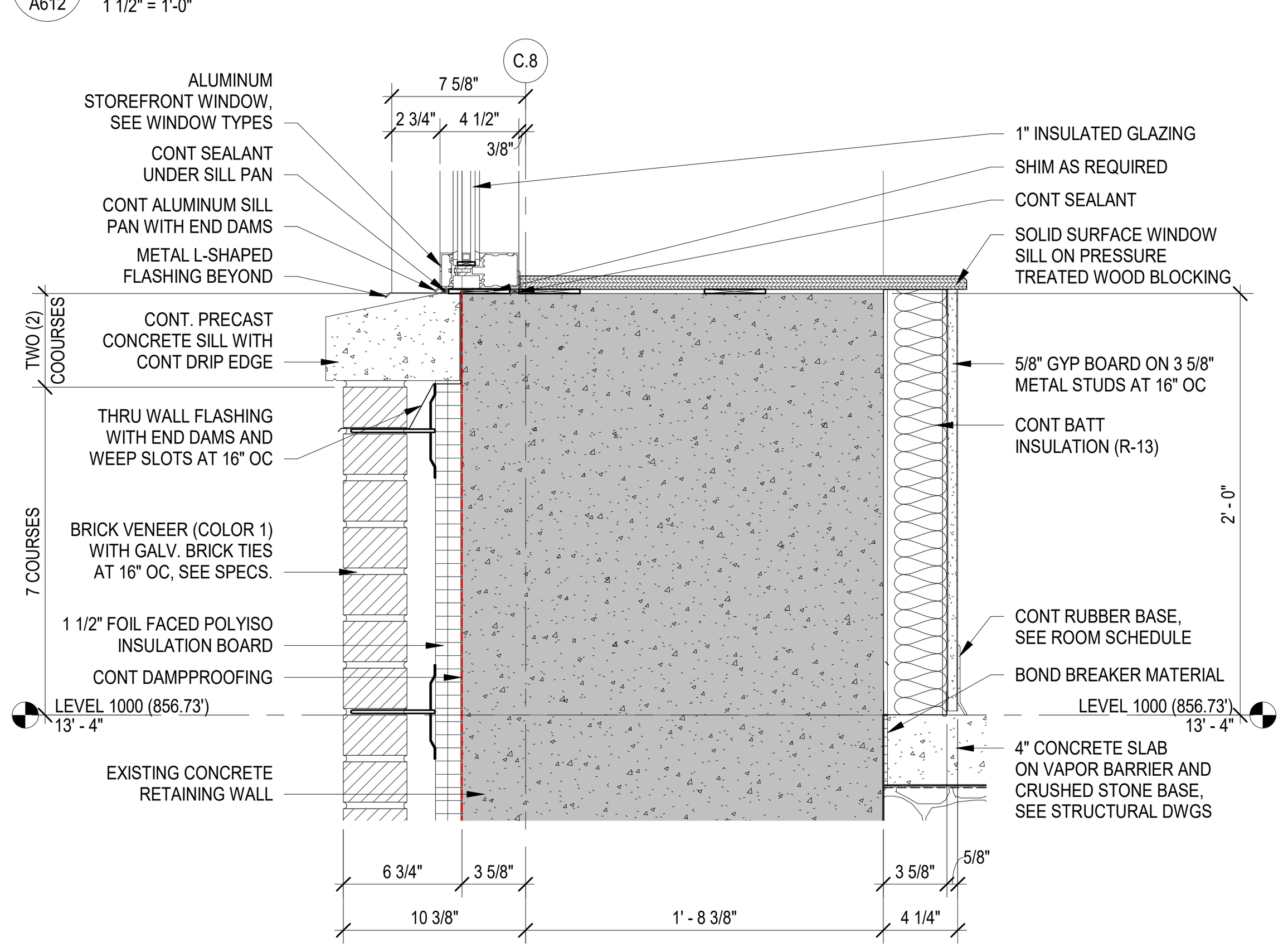
B2 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



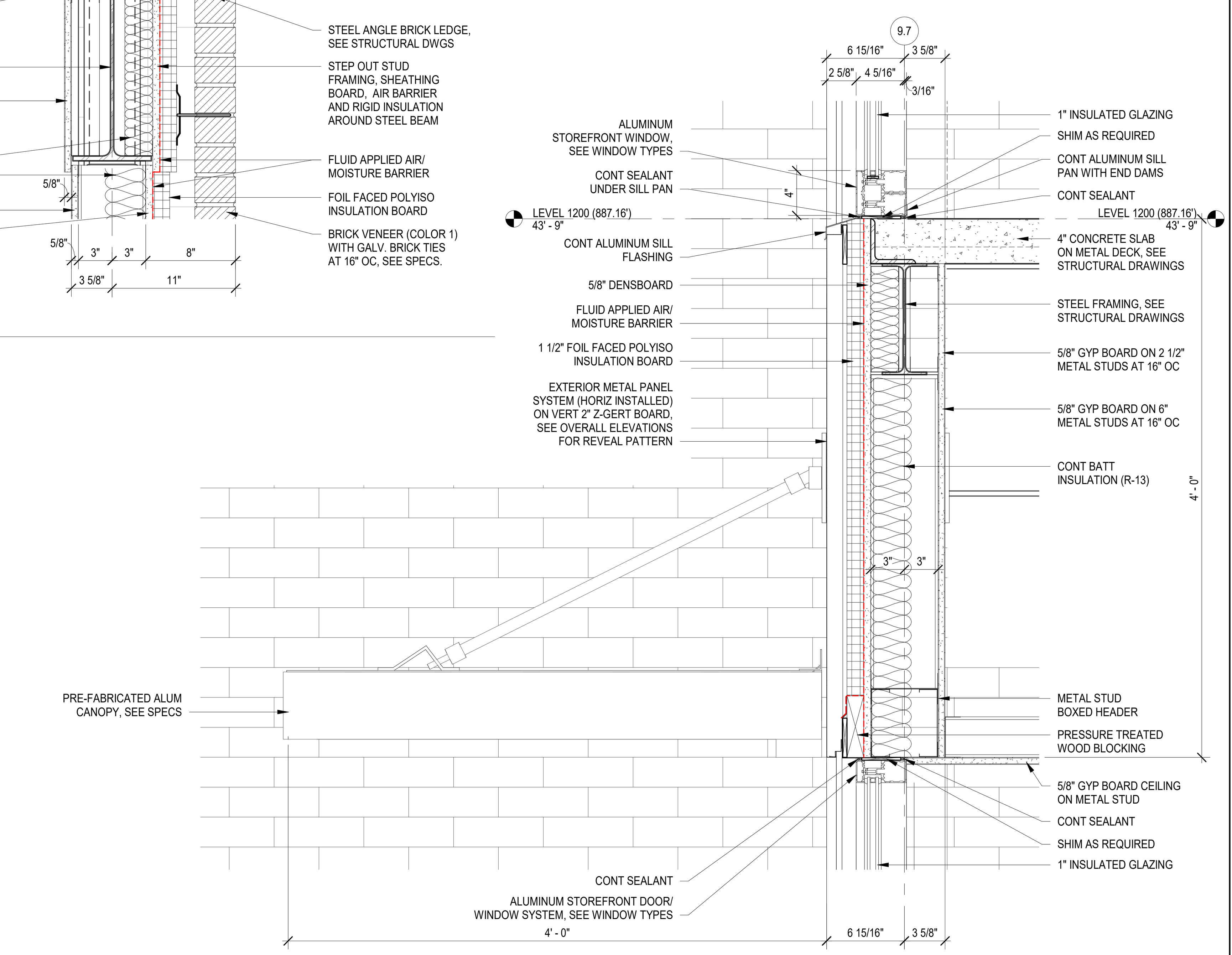
B3 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



A1 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



A2 A612 **SECTION DETAIL** 1 1/2" = 1'-0"



A4 A612 **SECTION DETAIL** 1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

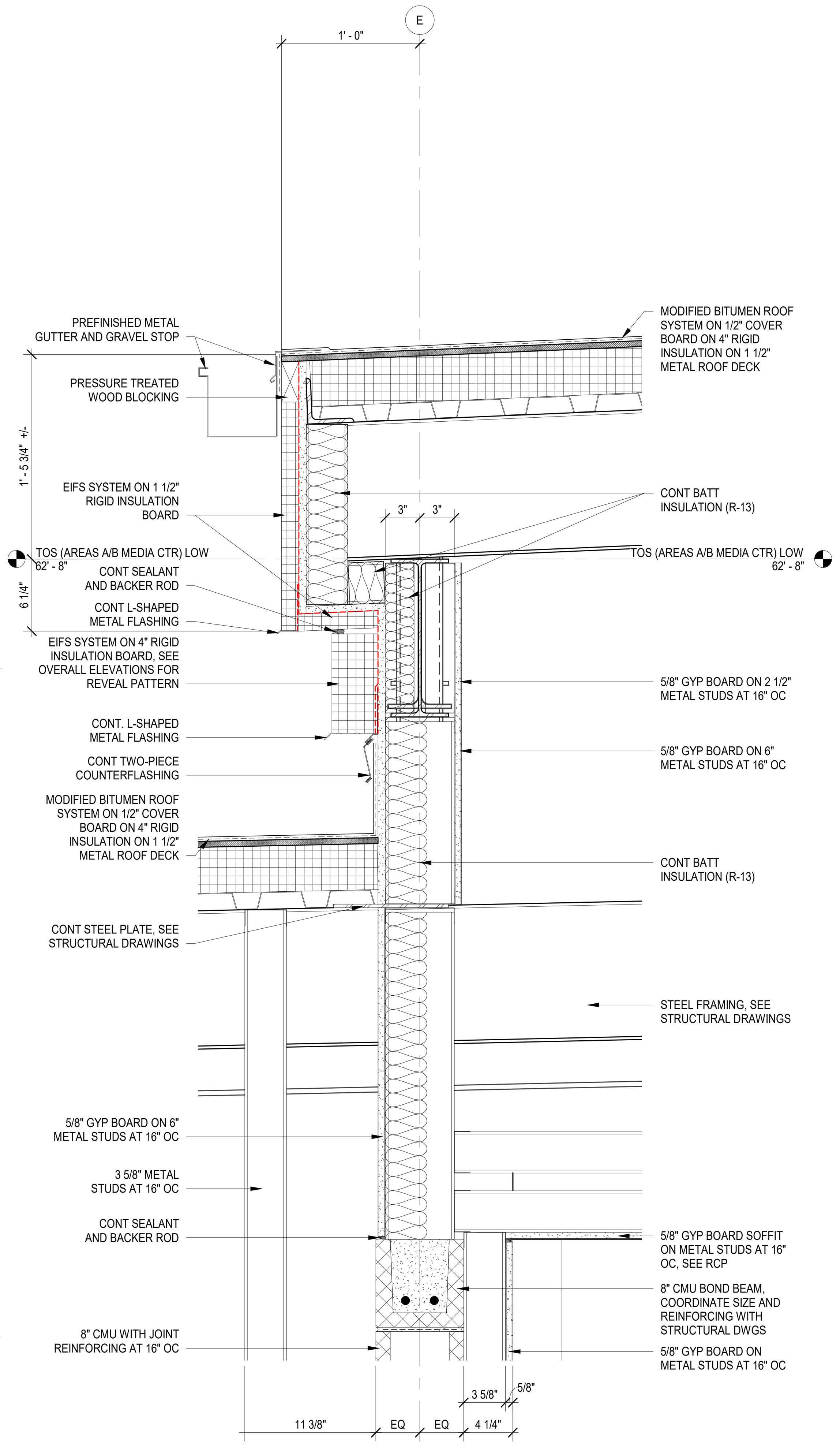
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: Author

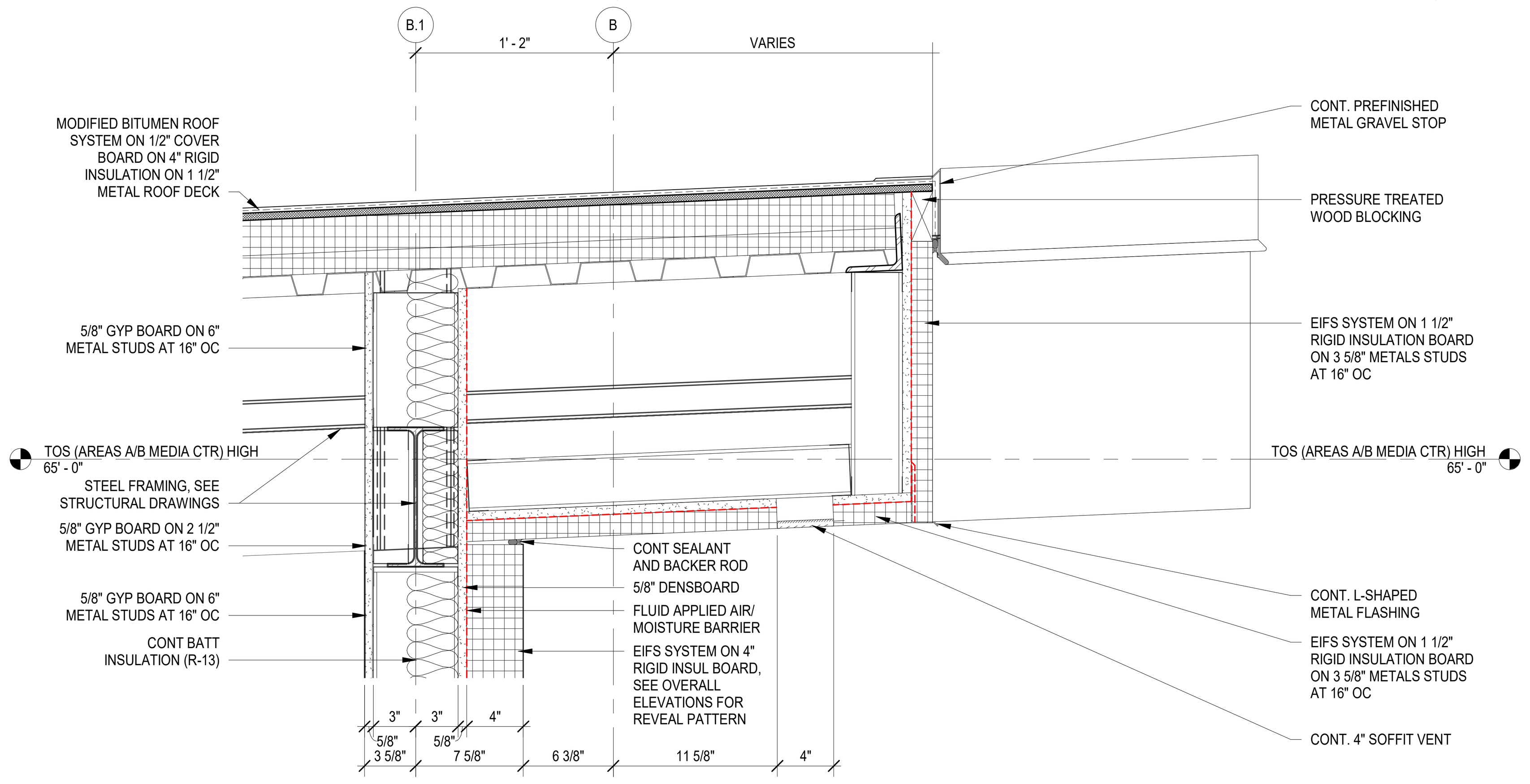
SHEET TITLE:
SECTION DETAILS

SHEET NO. PROJ. NO. 020420.00

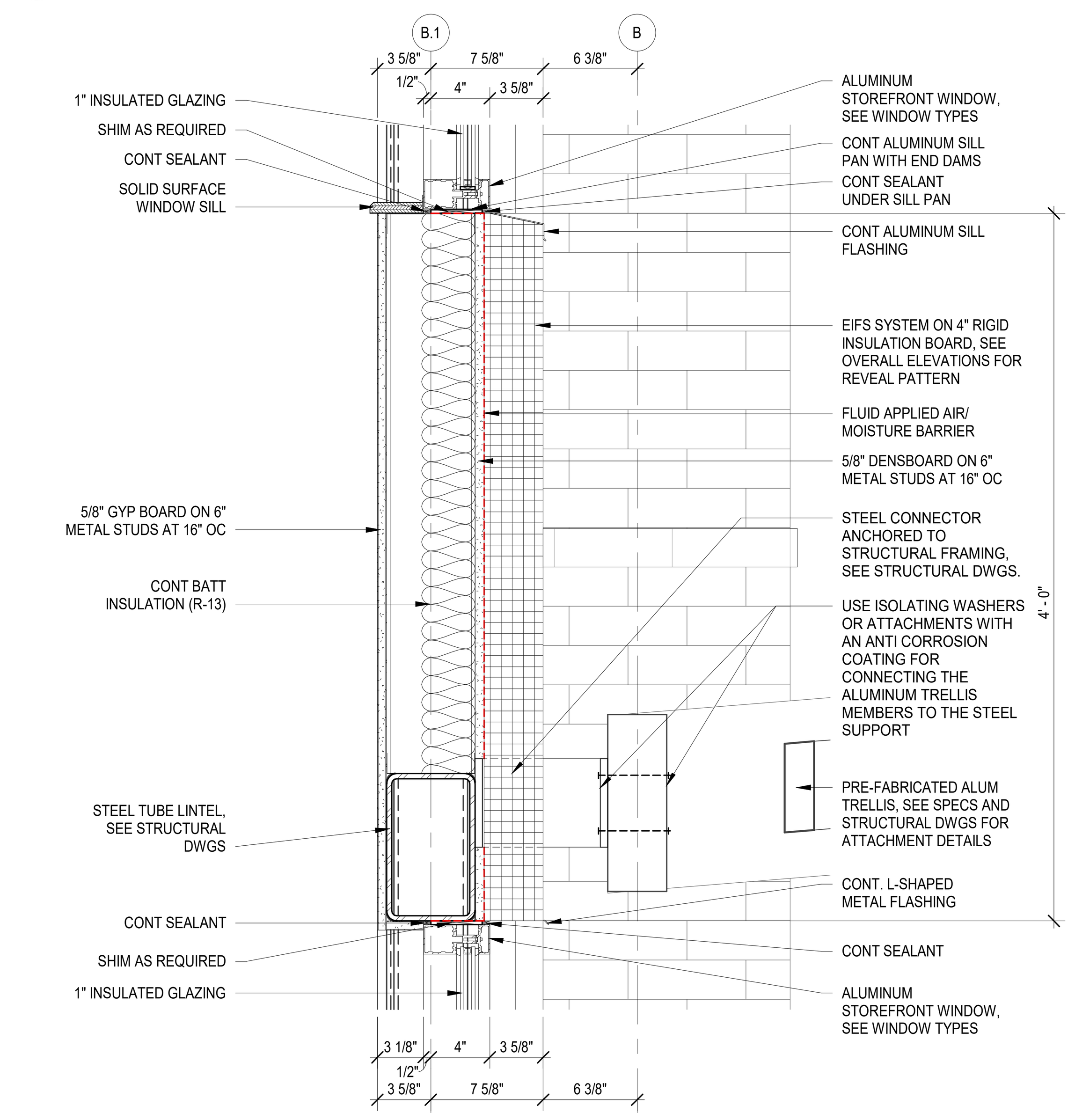
A612



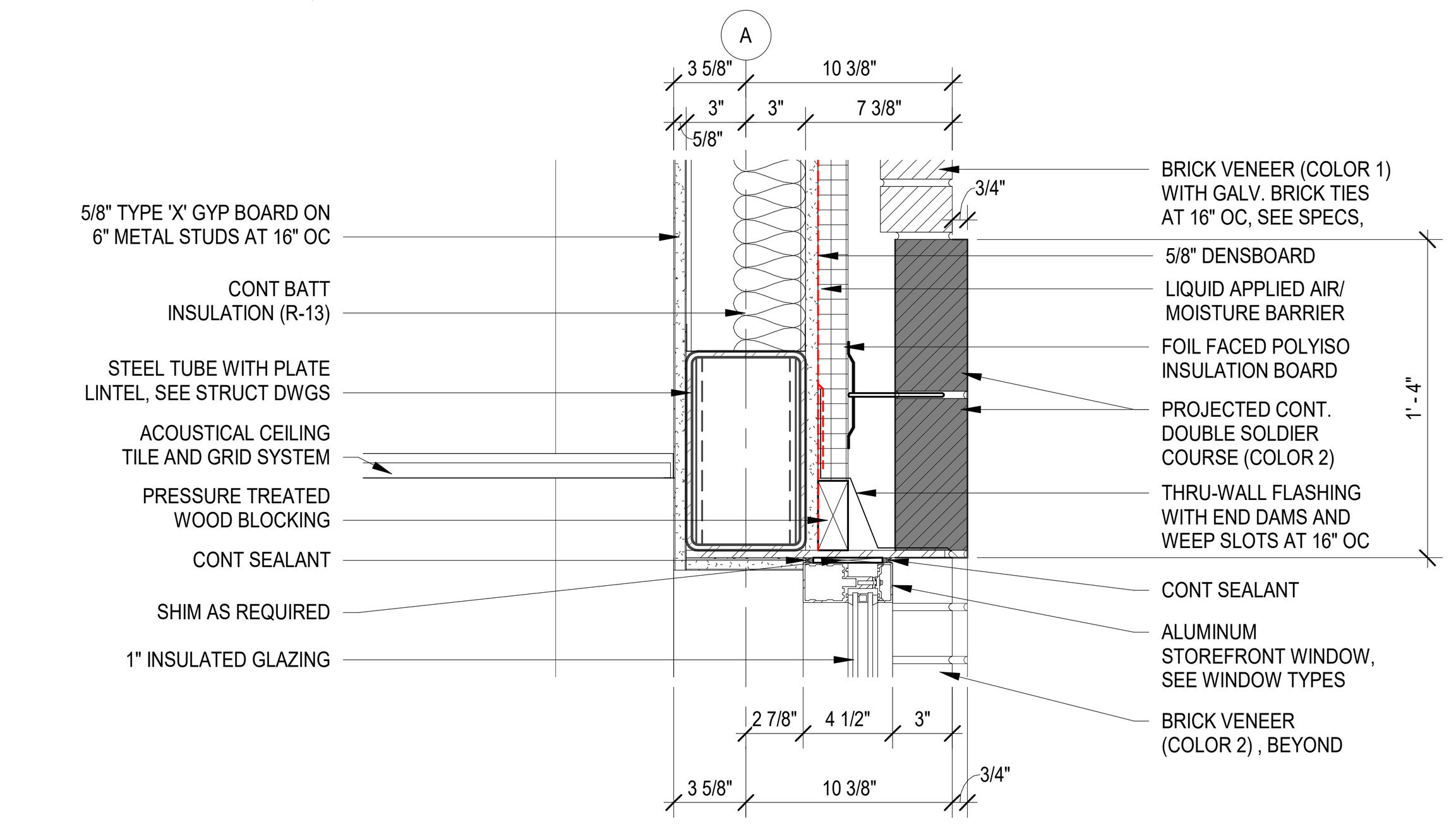
C1 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



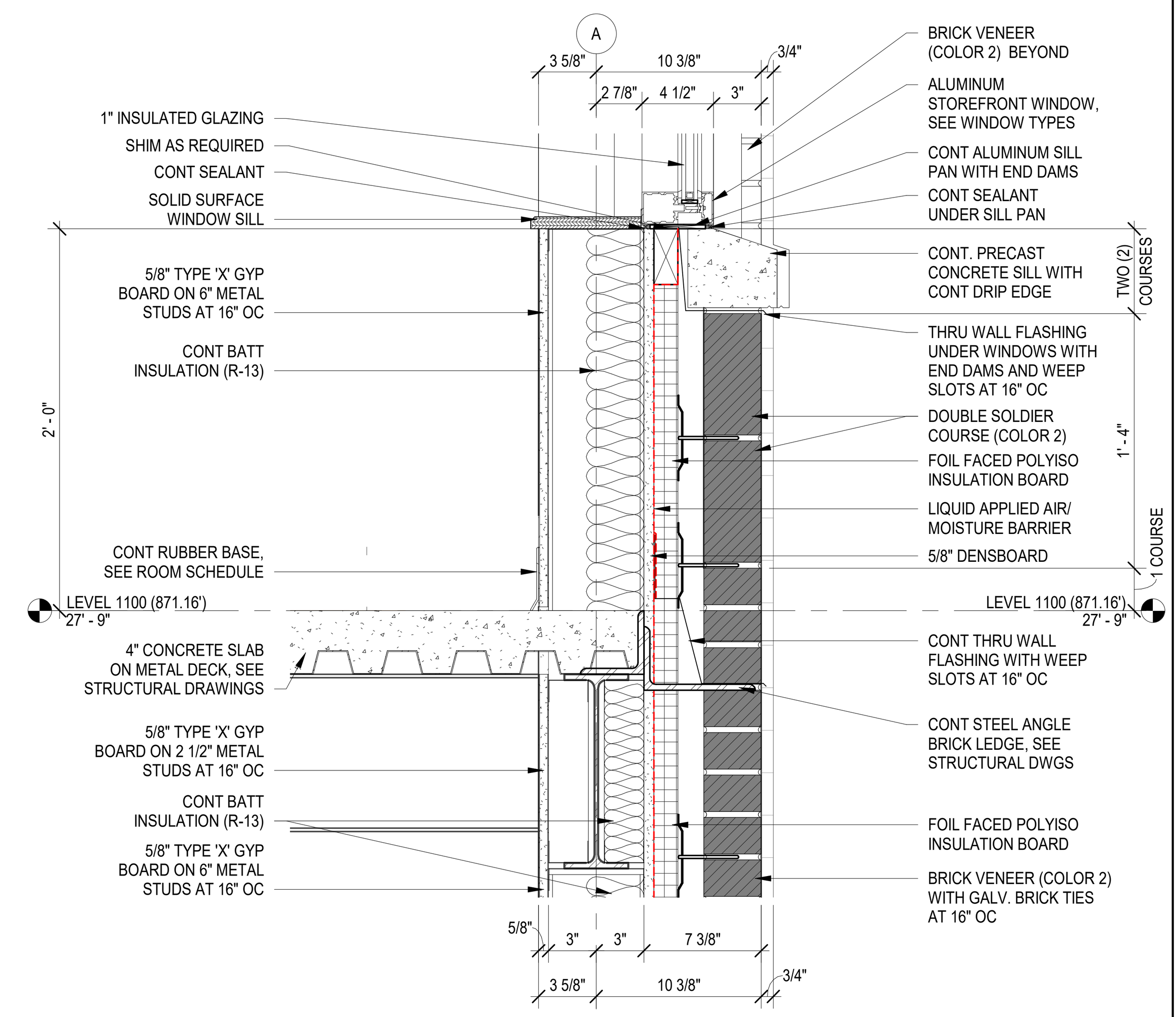
D2 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



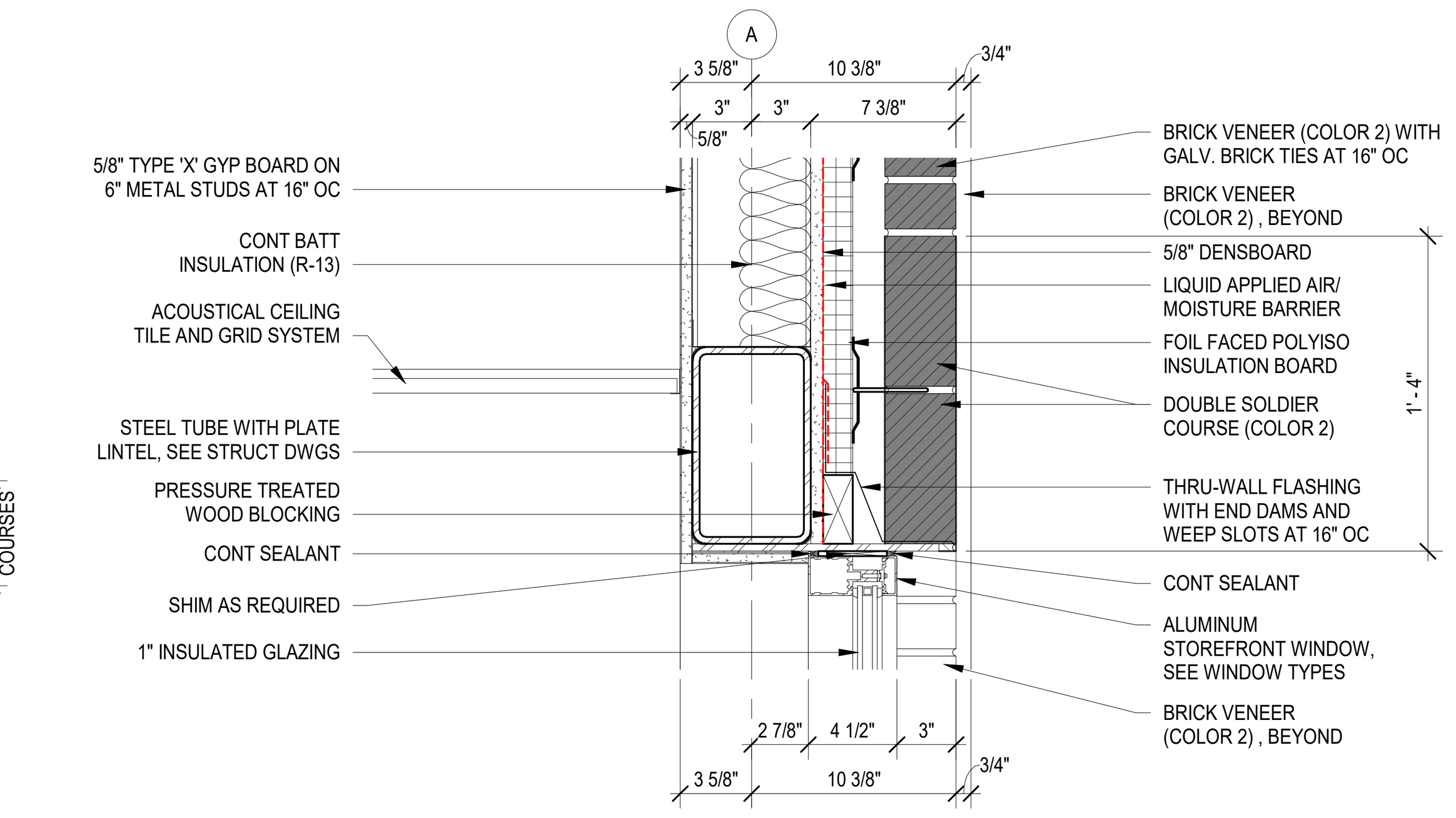
C2 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



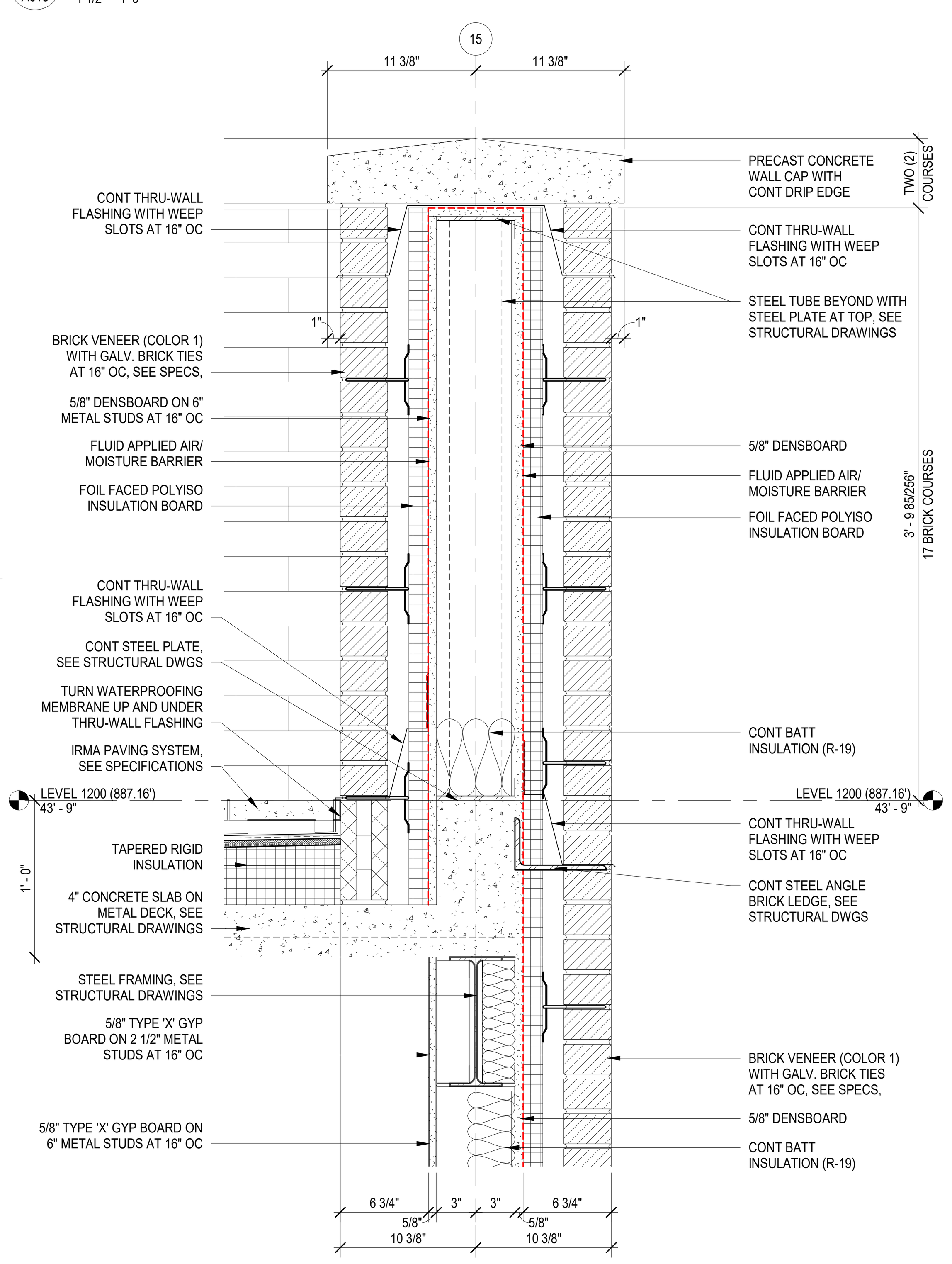
D4 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



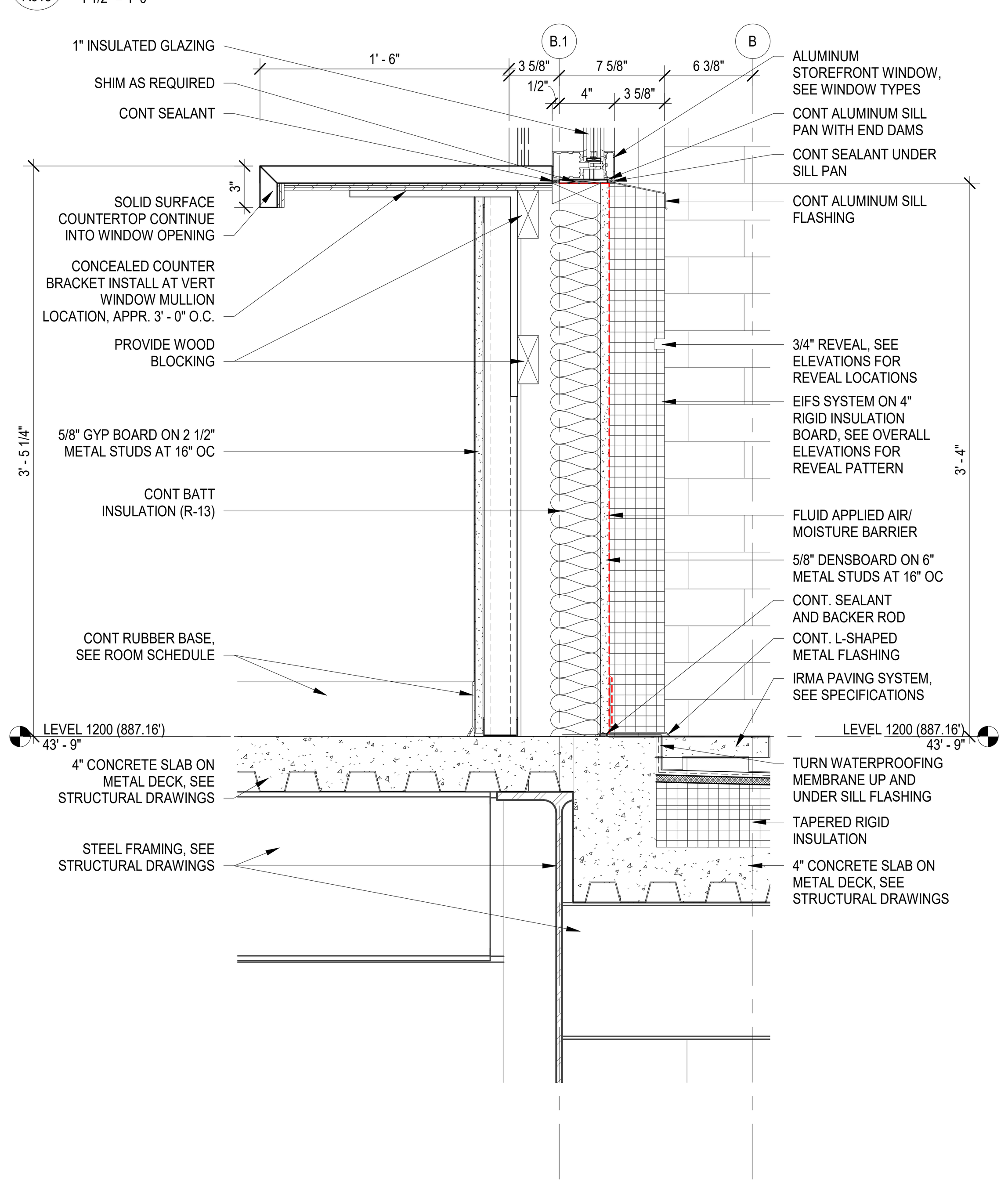
C4 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



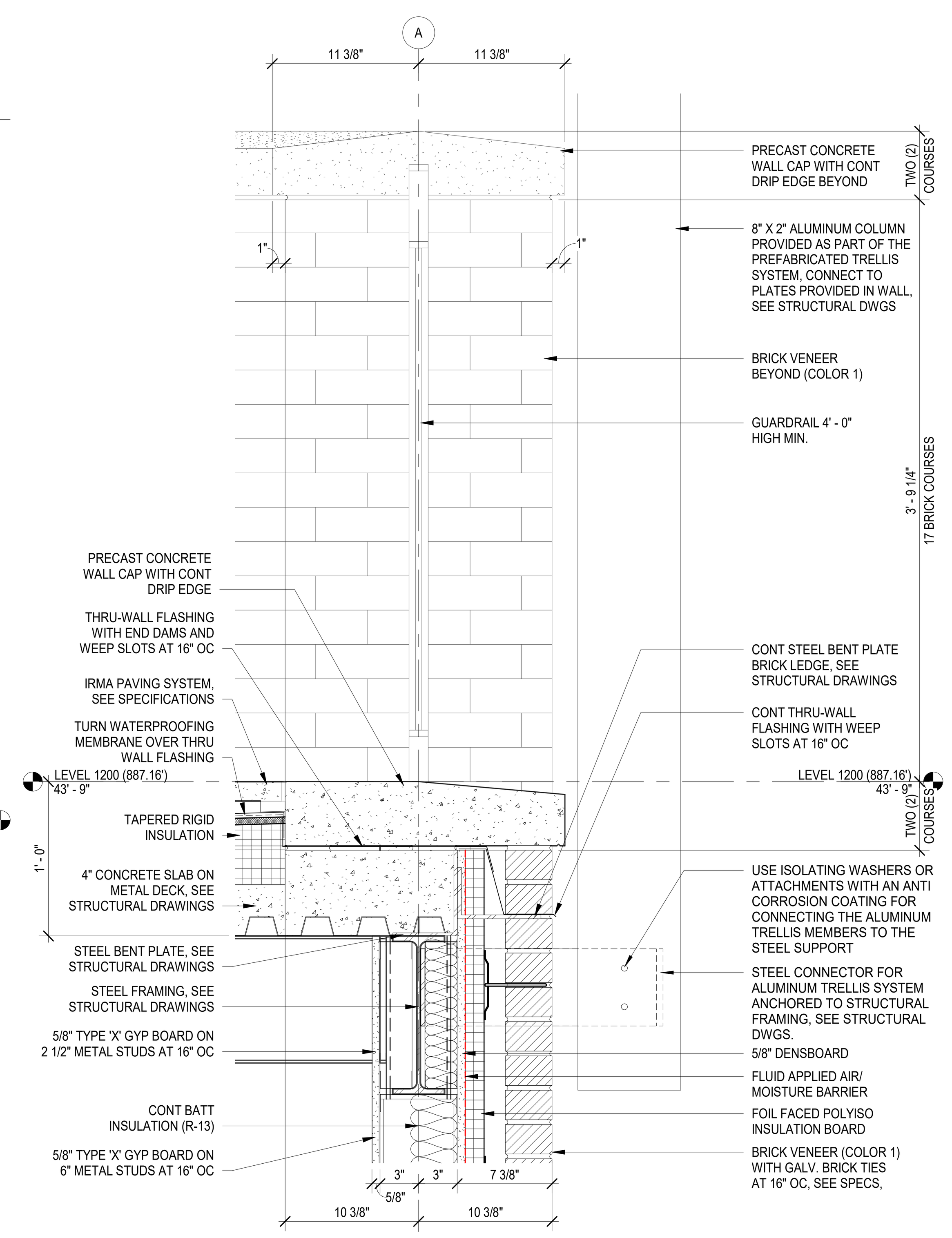
B4 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



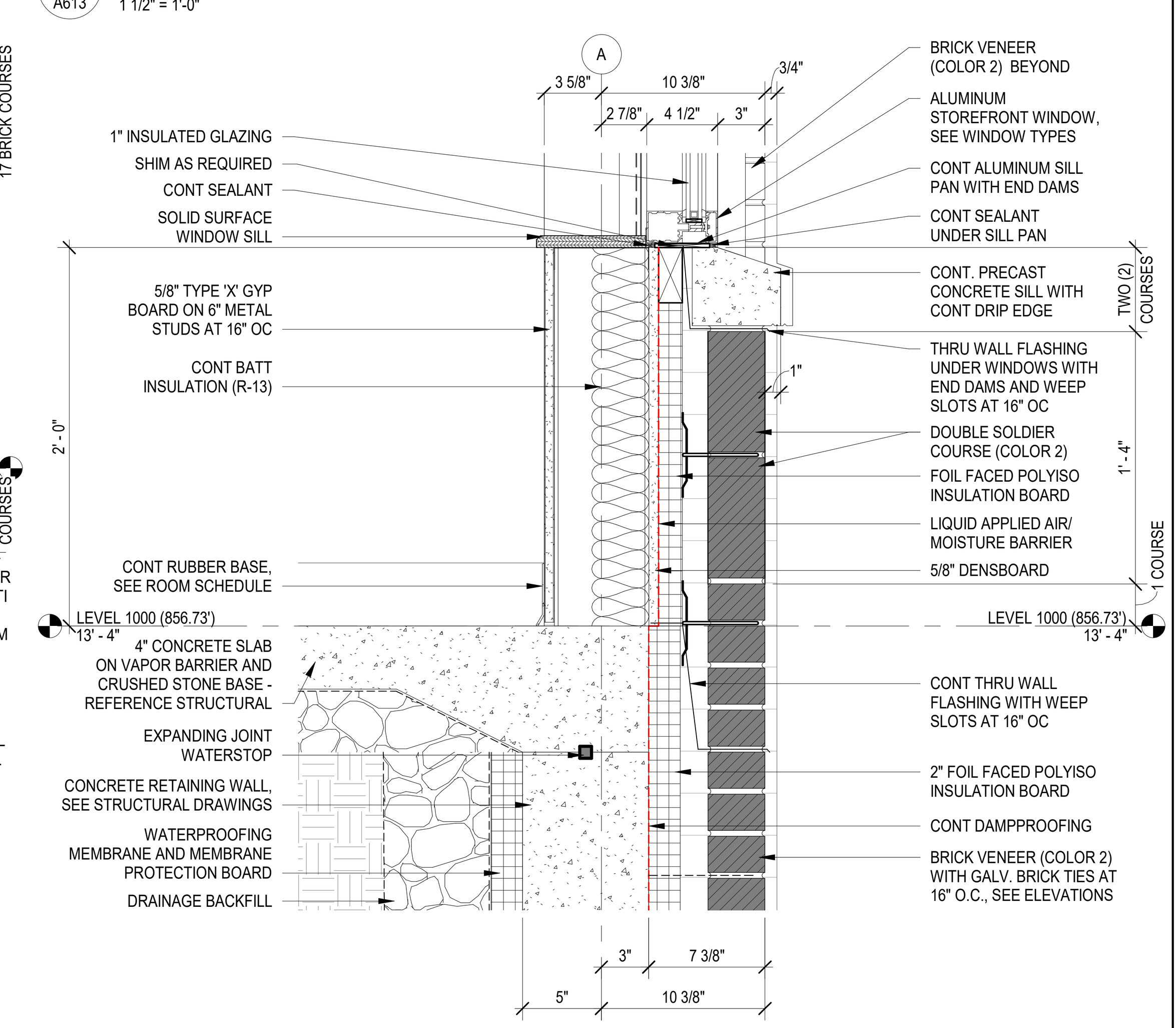
A1 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



A2 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



A3 A613 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 A613 **SECTION DETAIL**
1 1/2" = 1'-0"

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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

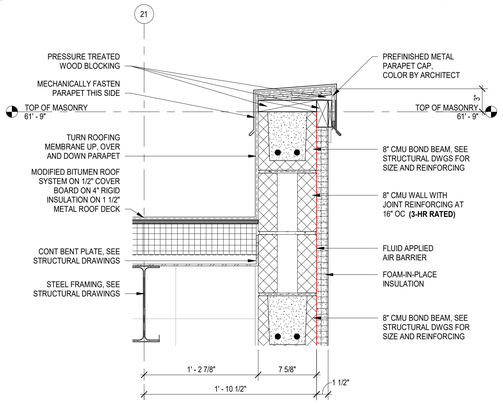
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

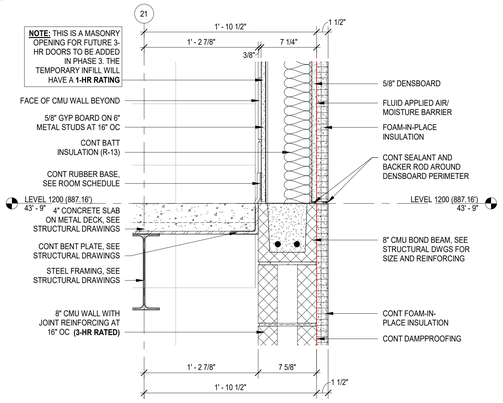
SHEET TITLE:
SECTION DETAILS

SHEET NO. PROJ. NO. 020420.00

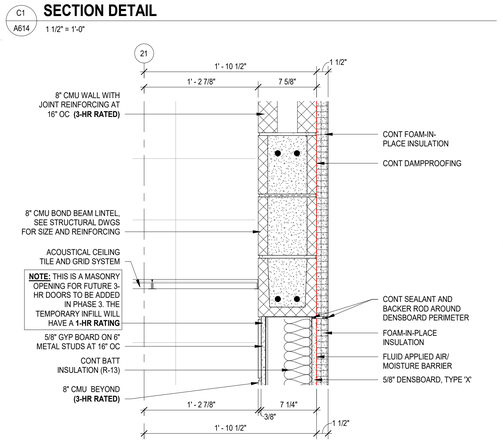
A613



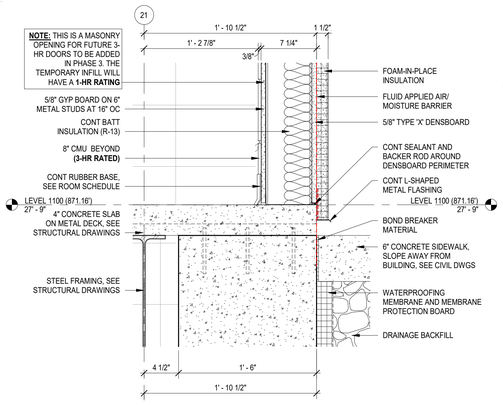
D1 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



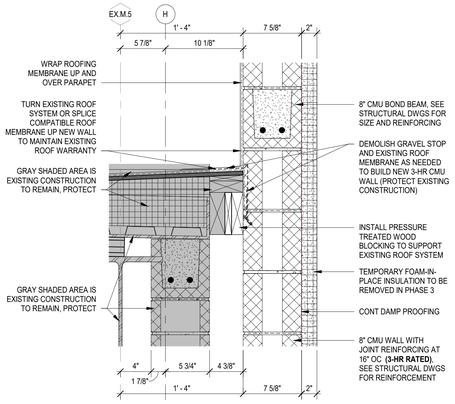
C1 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



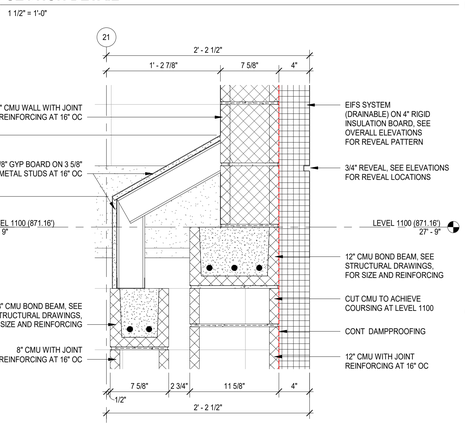
B1 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



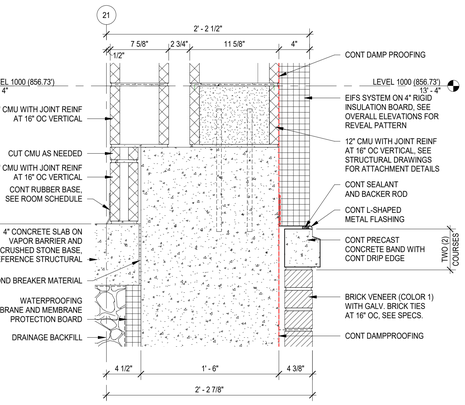
A1 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



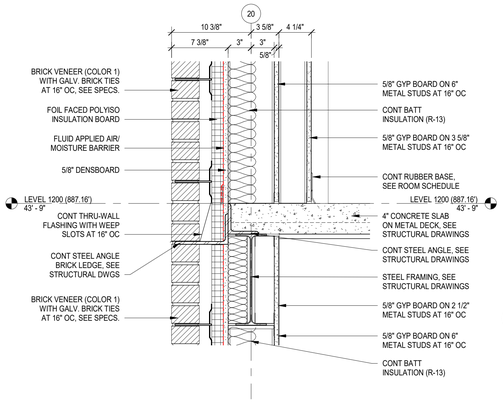
C2 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



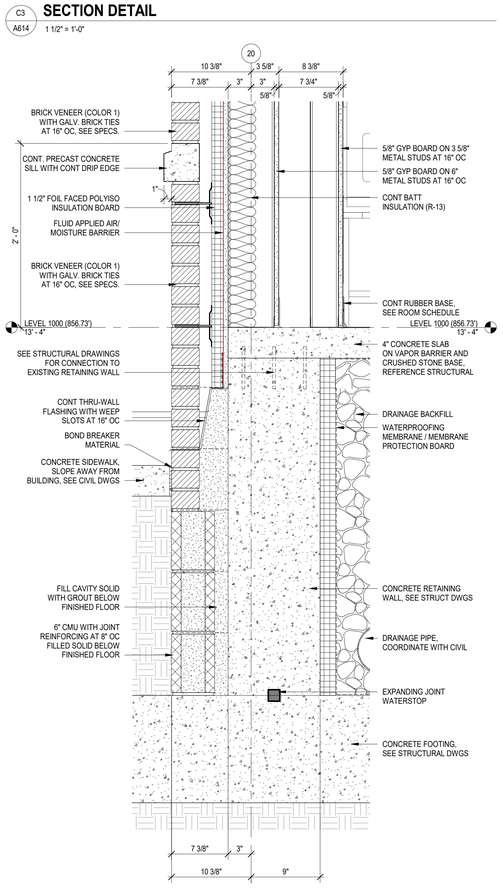
B2 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



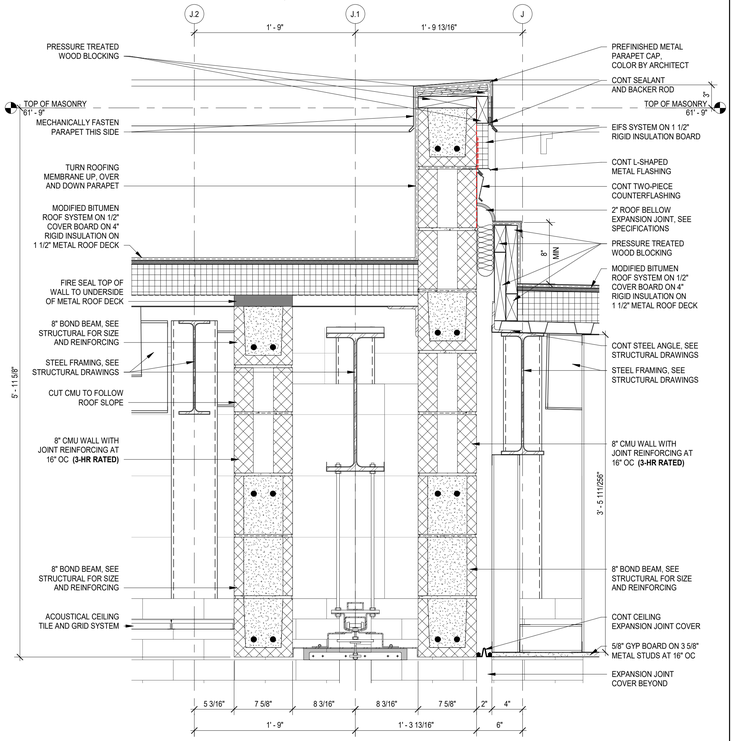
A2 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



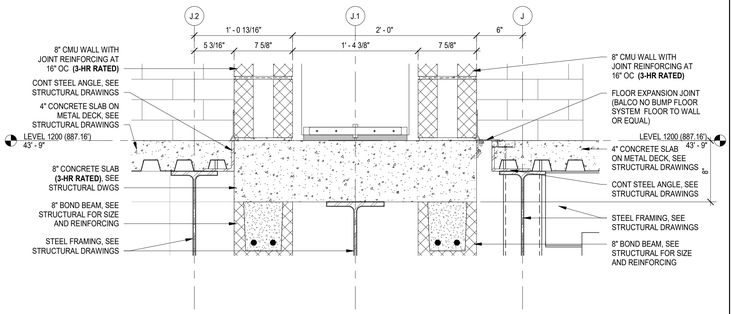
C3 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



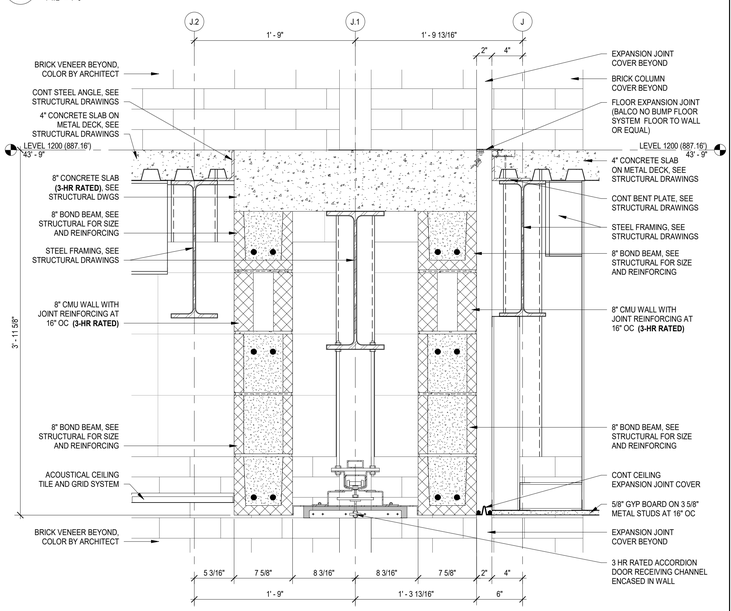
A3 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



C4 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



B4 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 / A614 **SECTION DETAIL**
1 1/2" = 1'-0"

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ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

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FOR PRICING ONLY

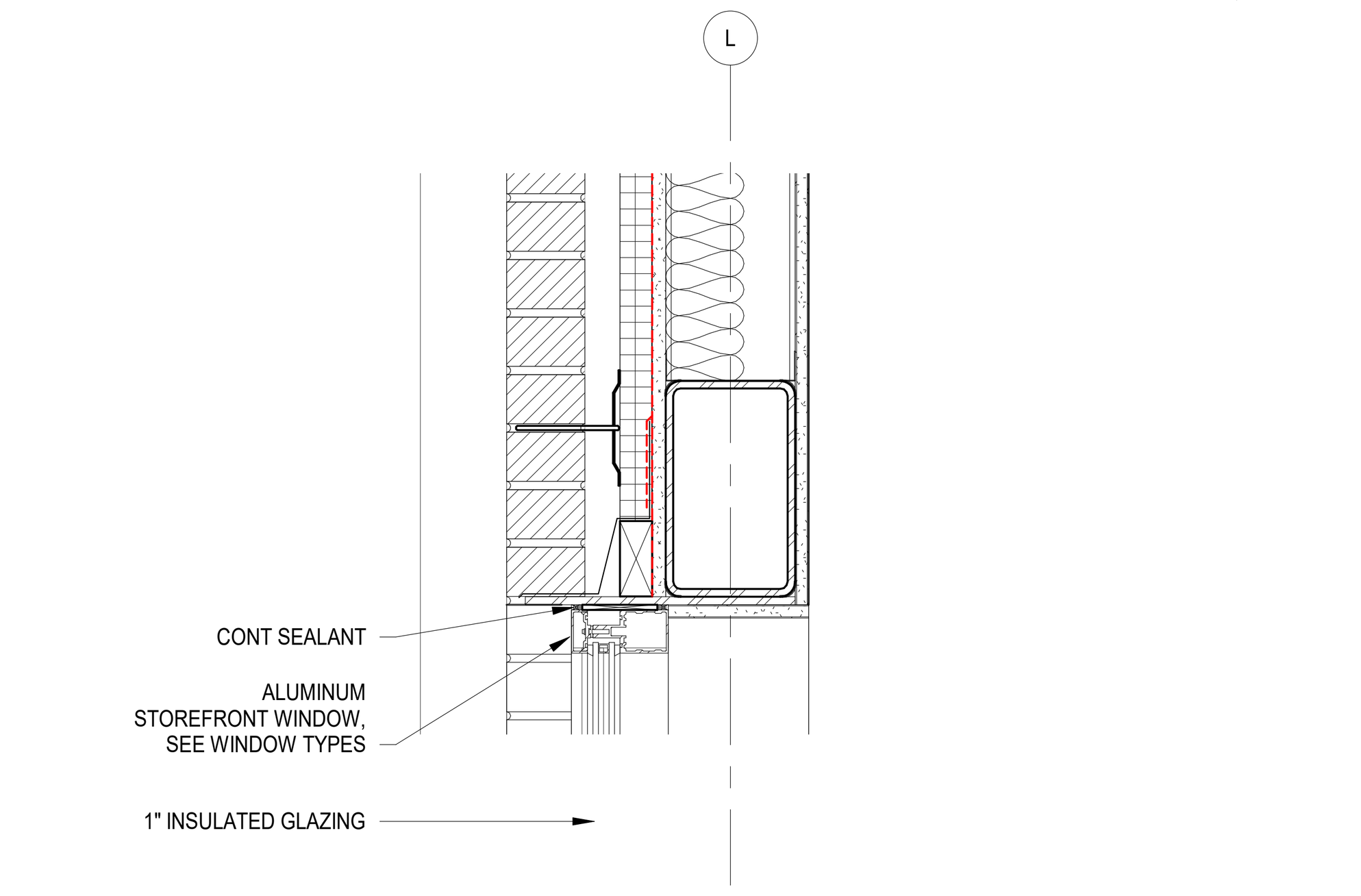
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

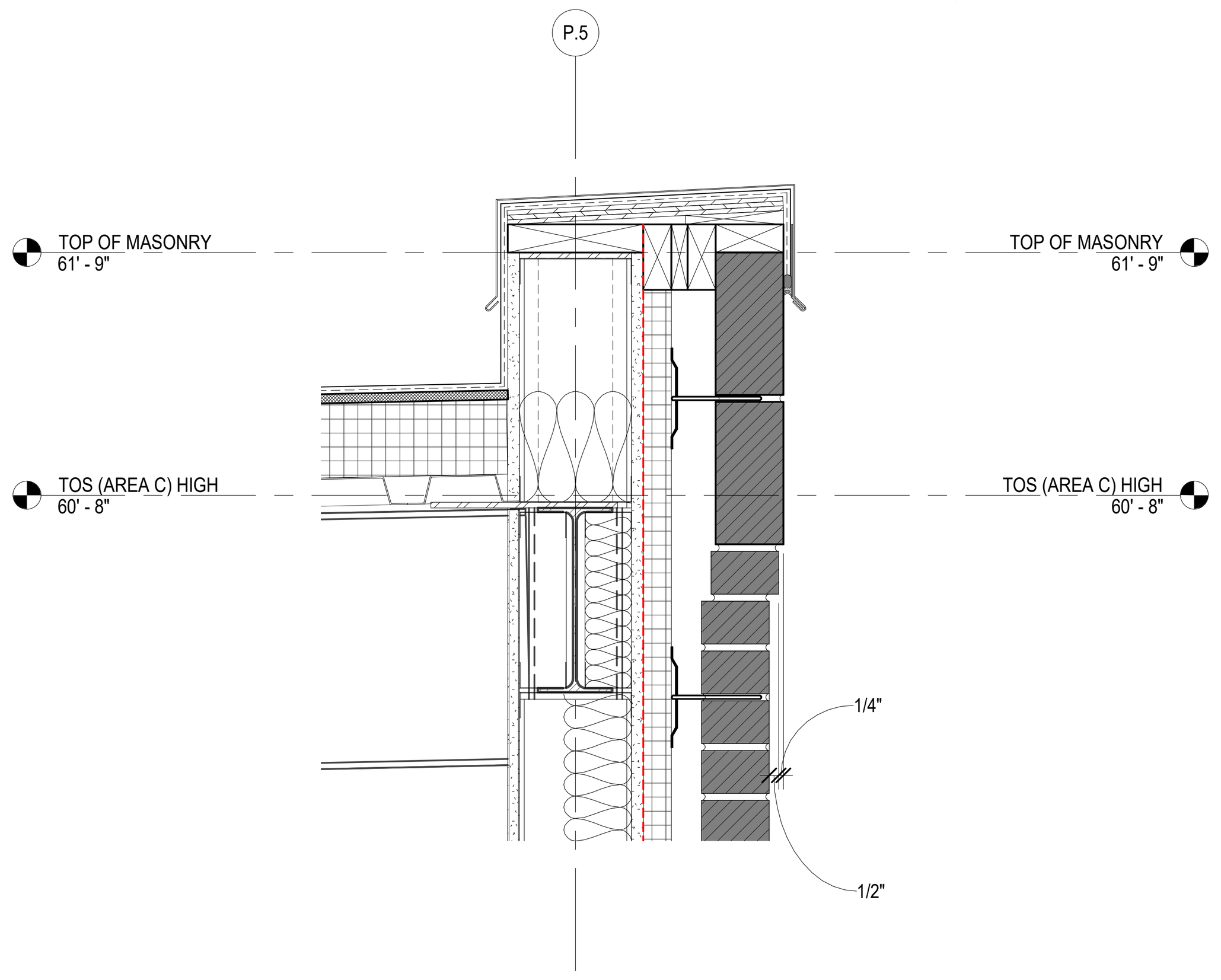
SHEET TITLE:
SECTION DETAILS

SHEET NO. A614

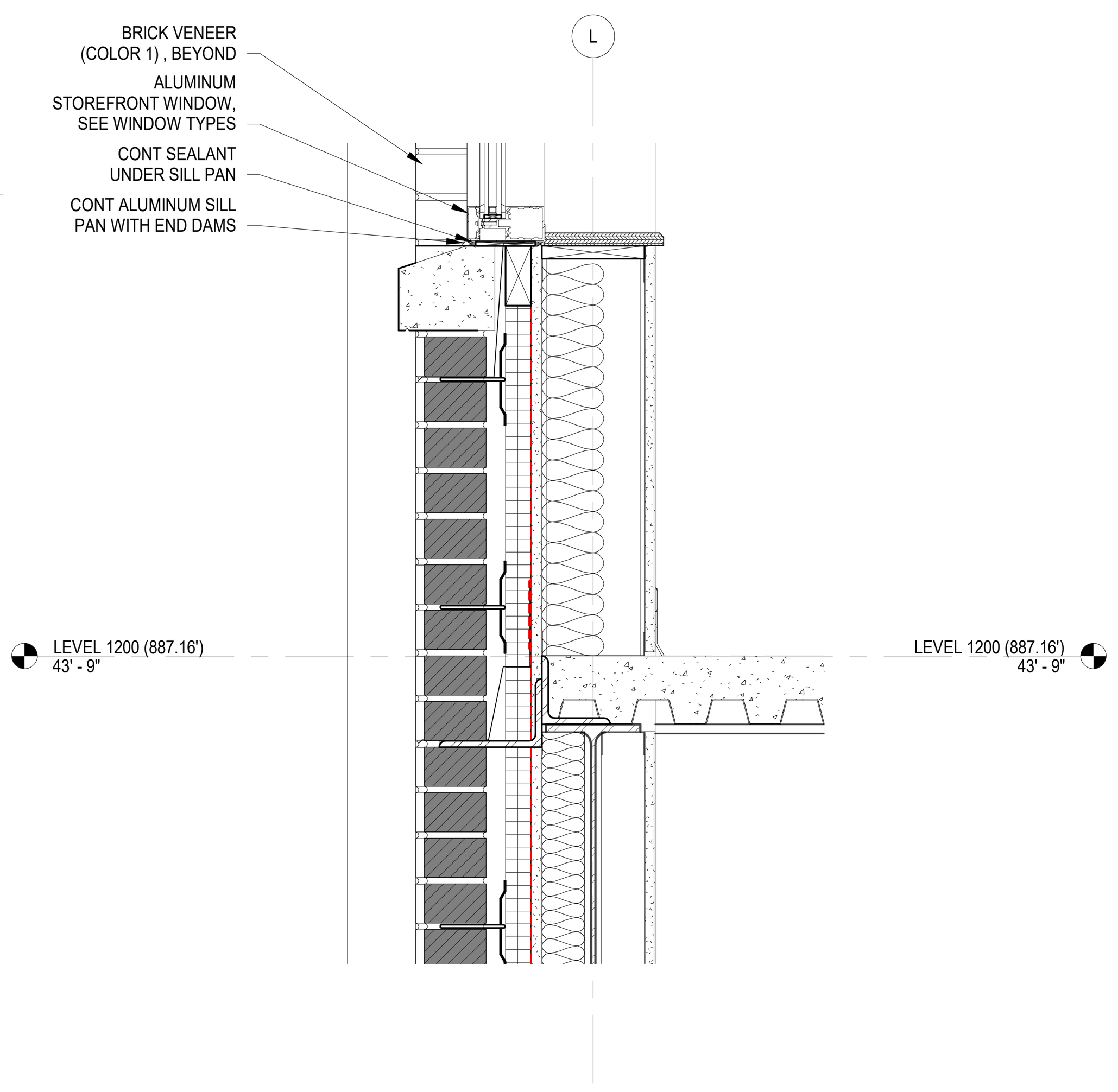
PROJ. NO. 020420.00



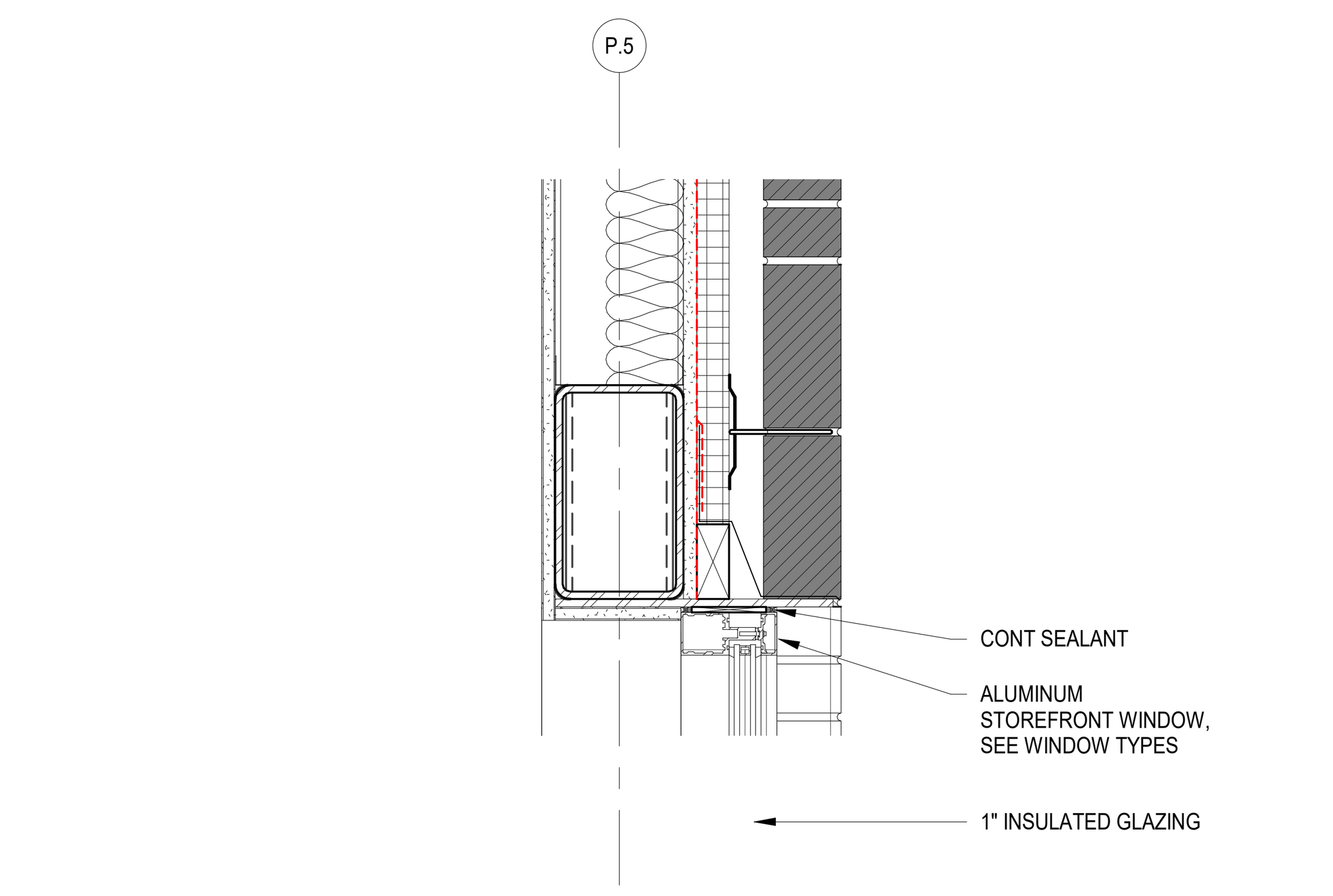
D1 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



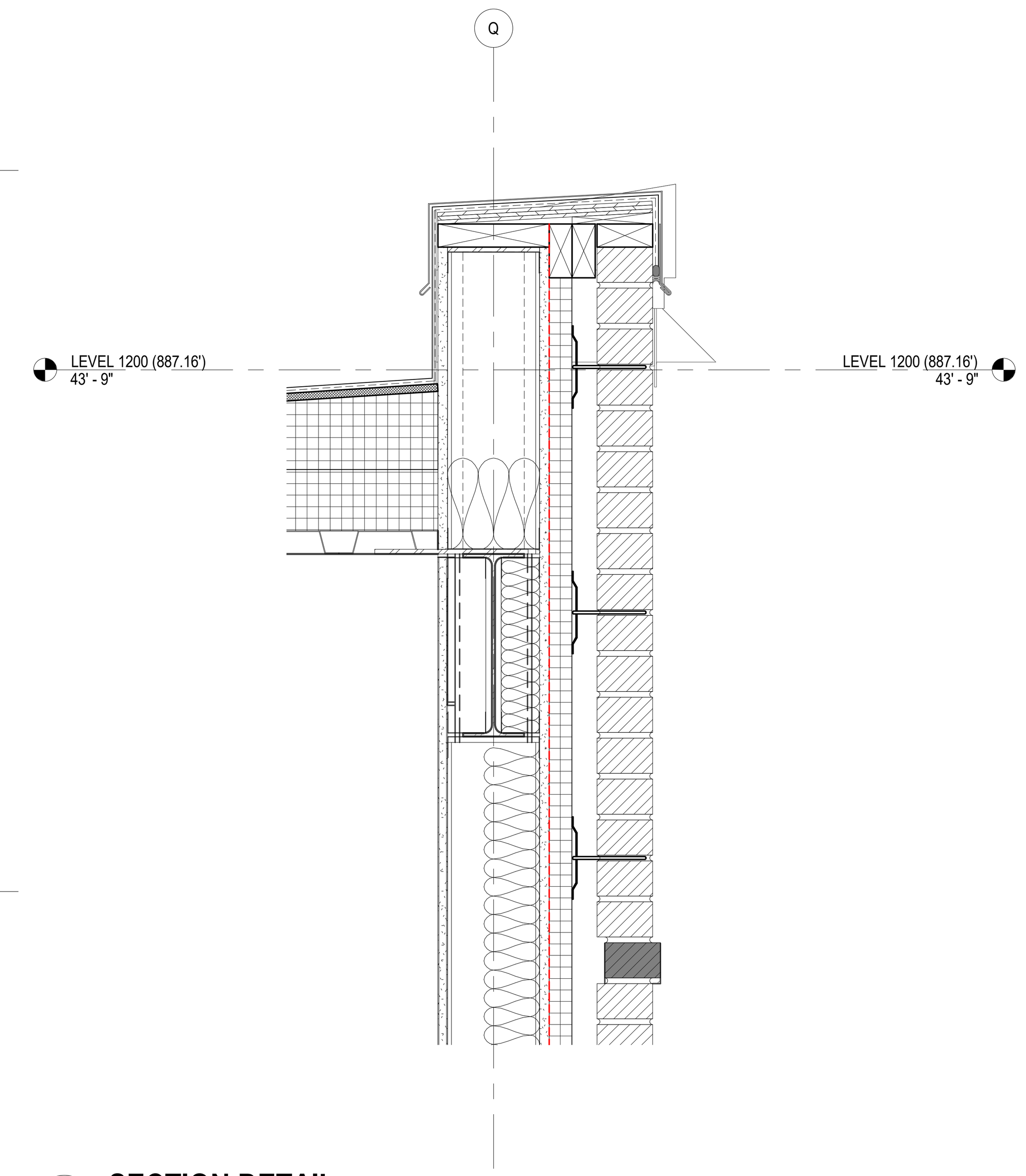
D2 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



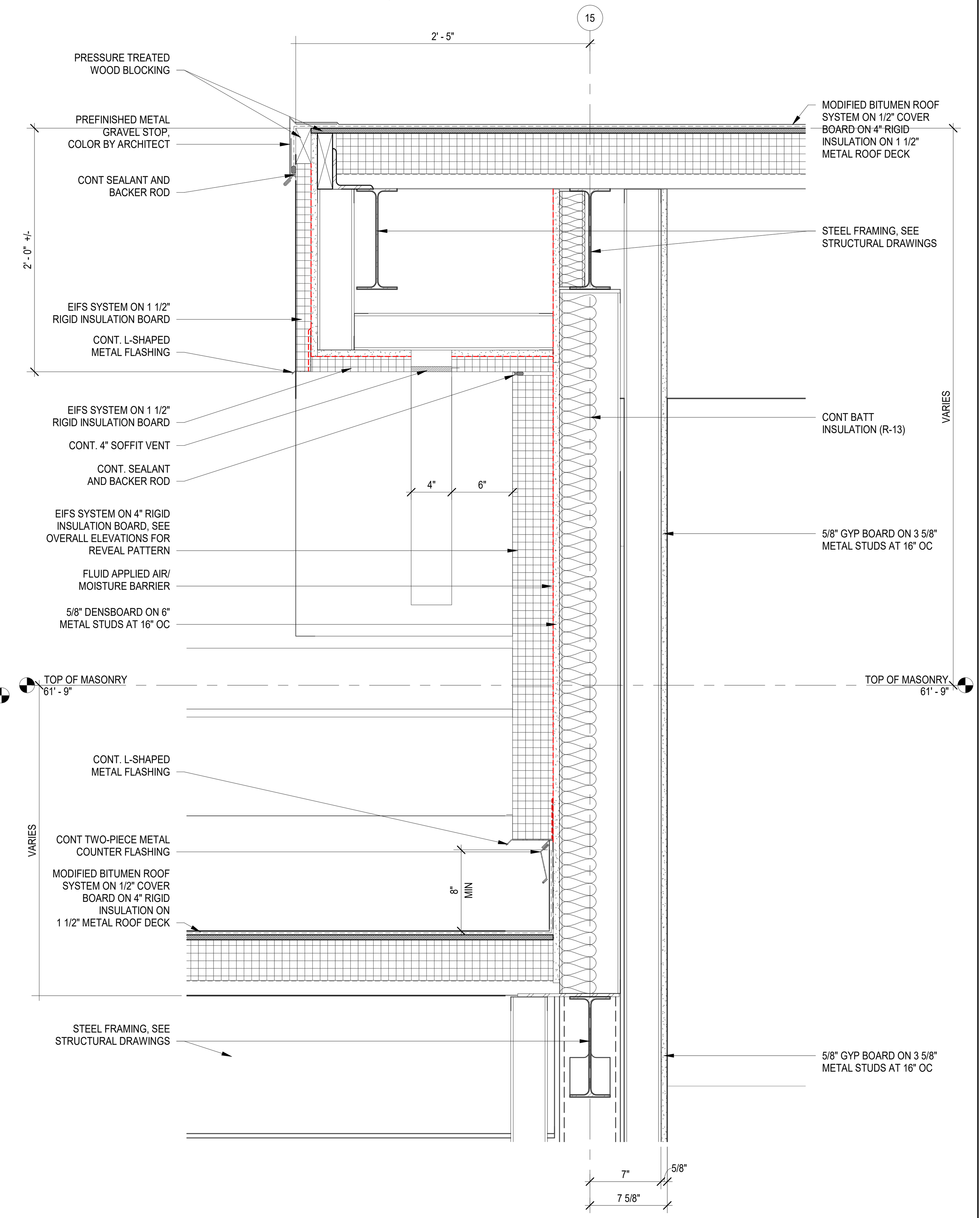
C1 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



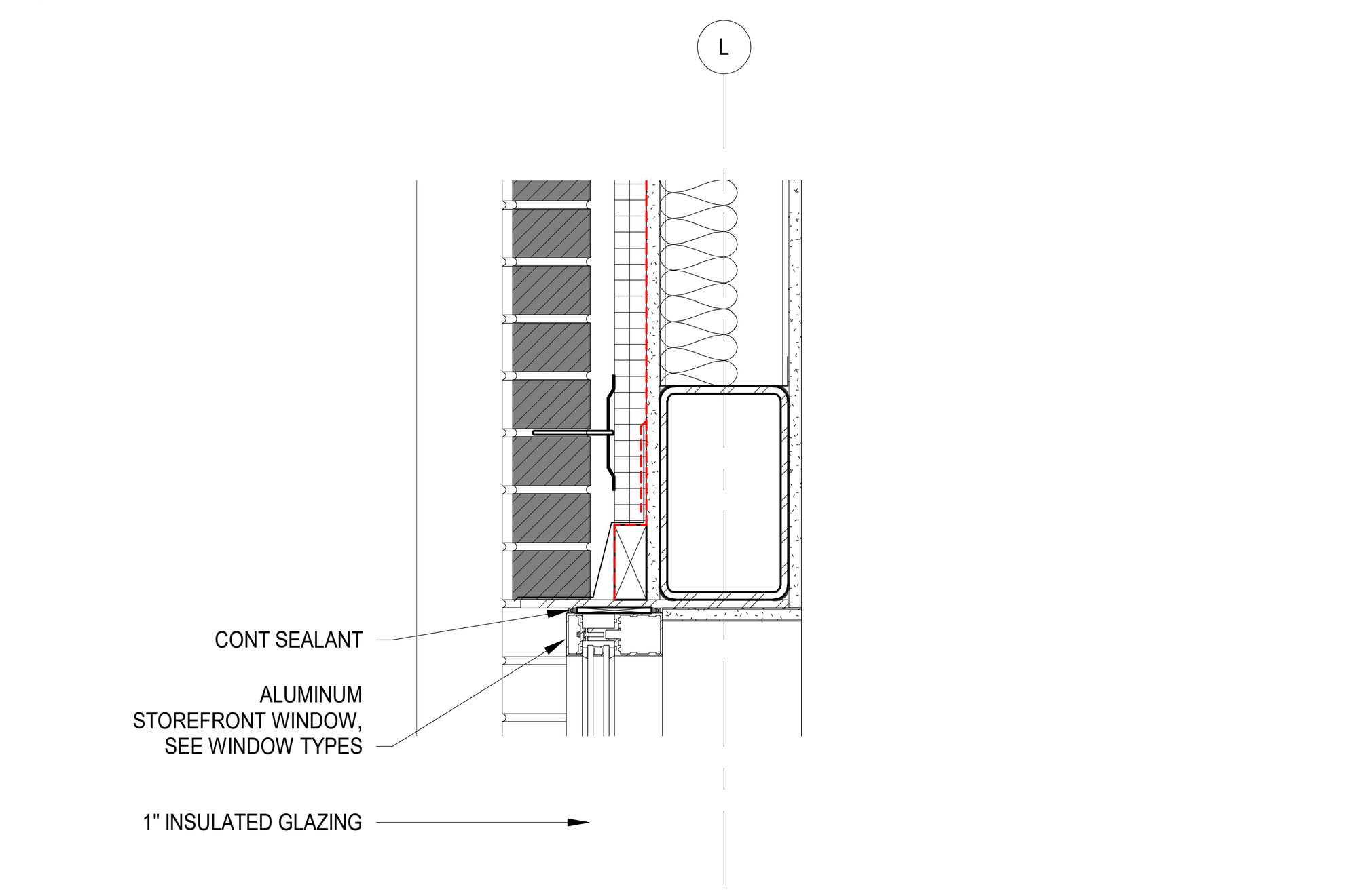
C2 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



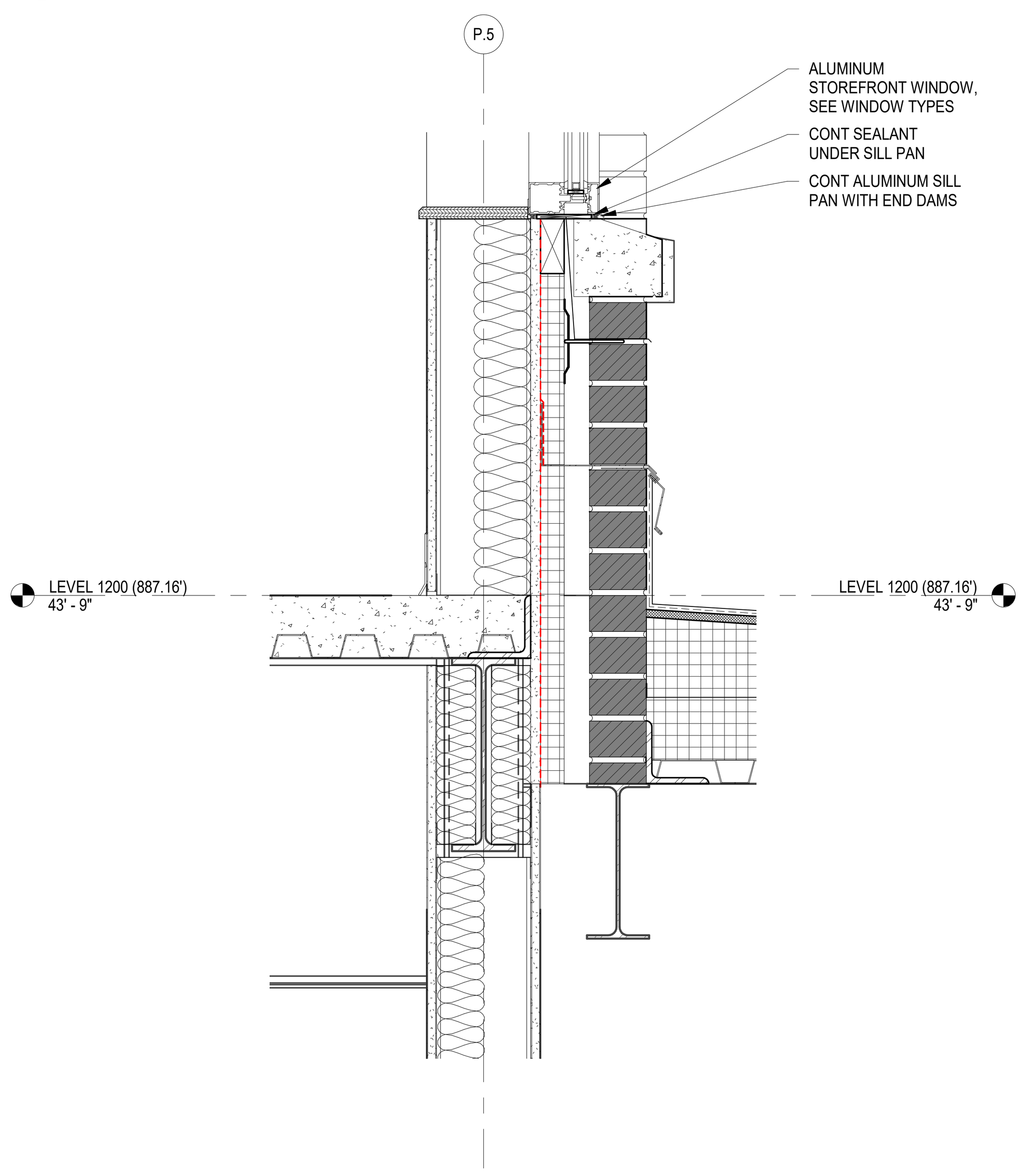
C3 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



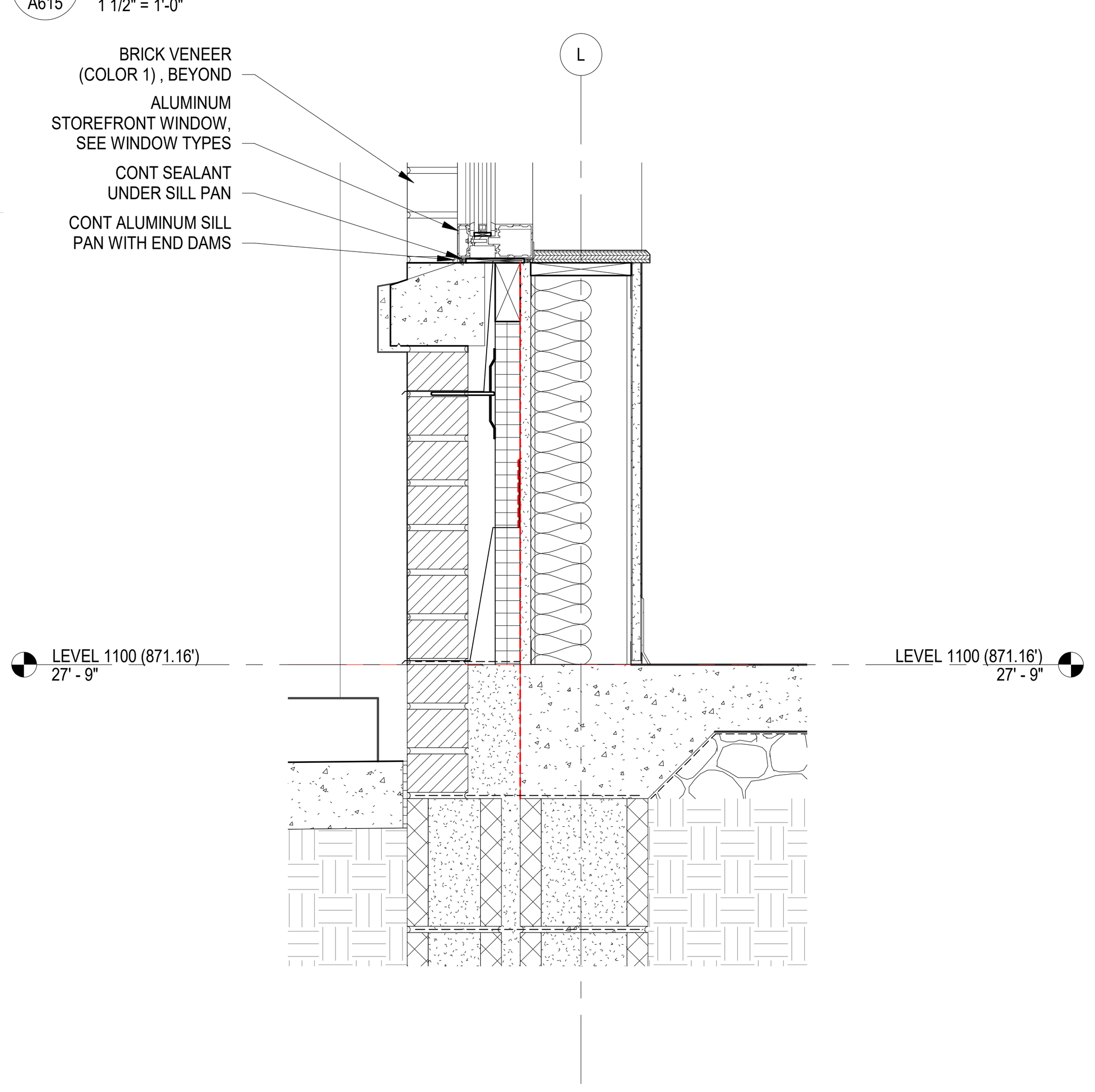
C4 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



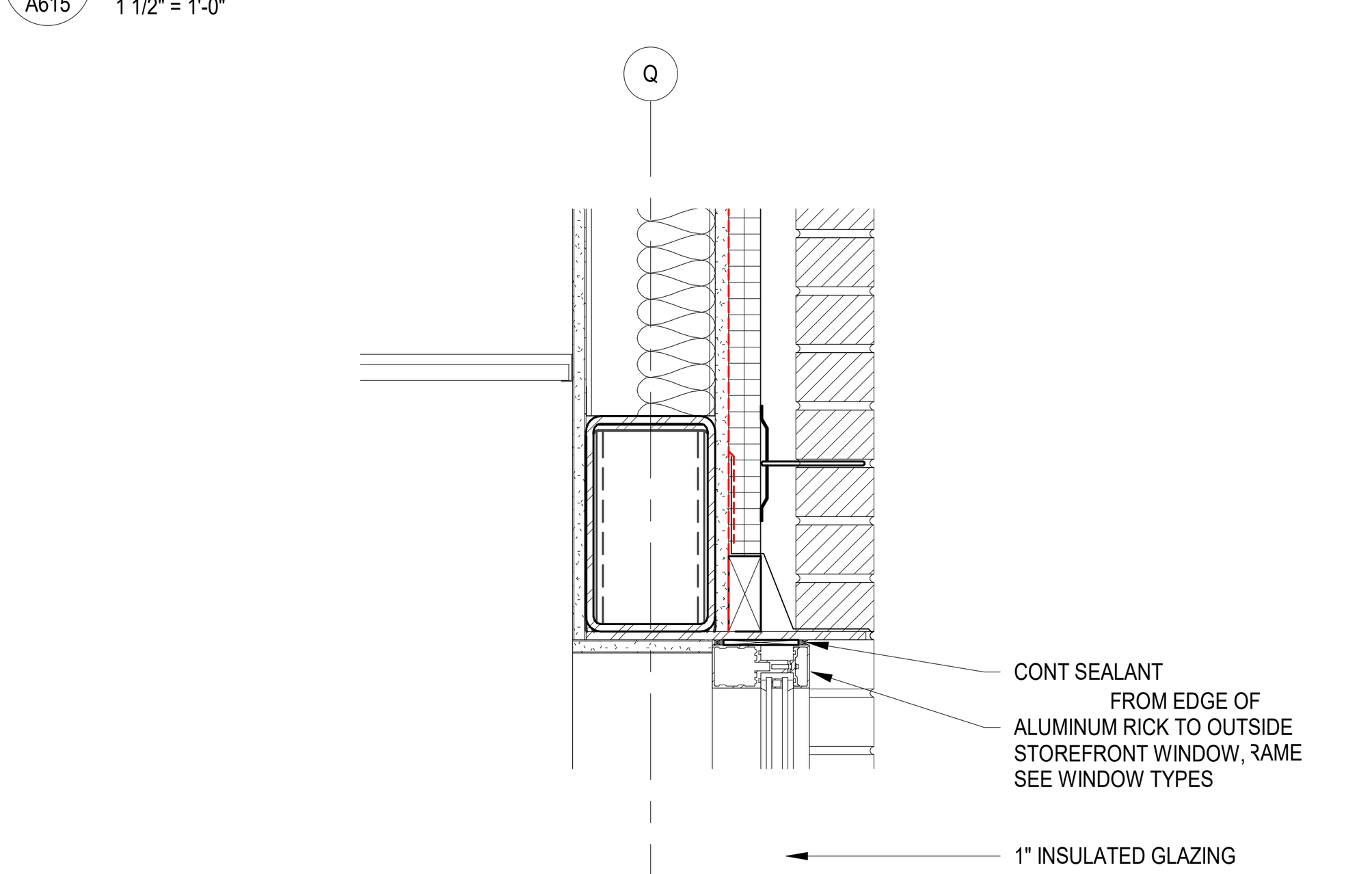
B1 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



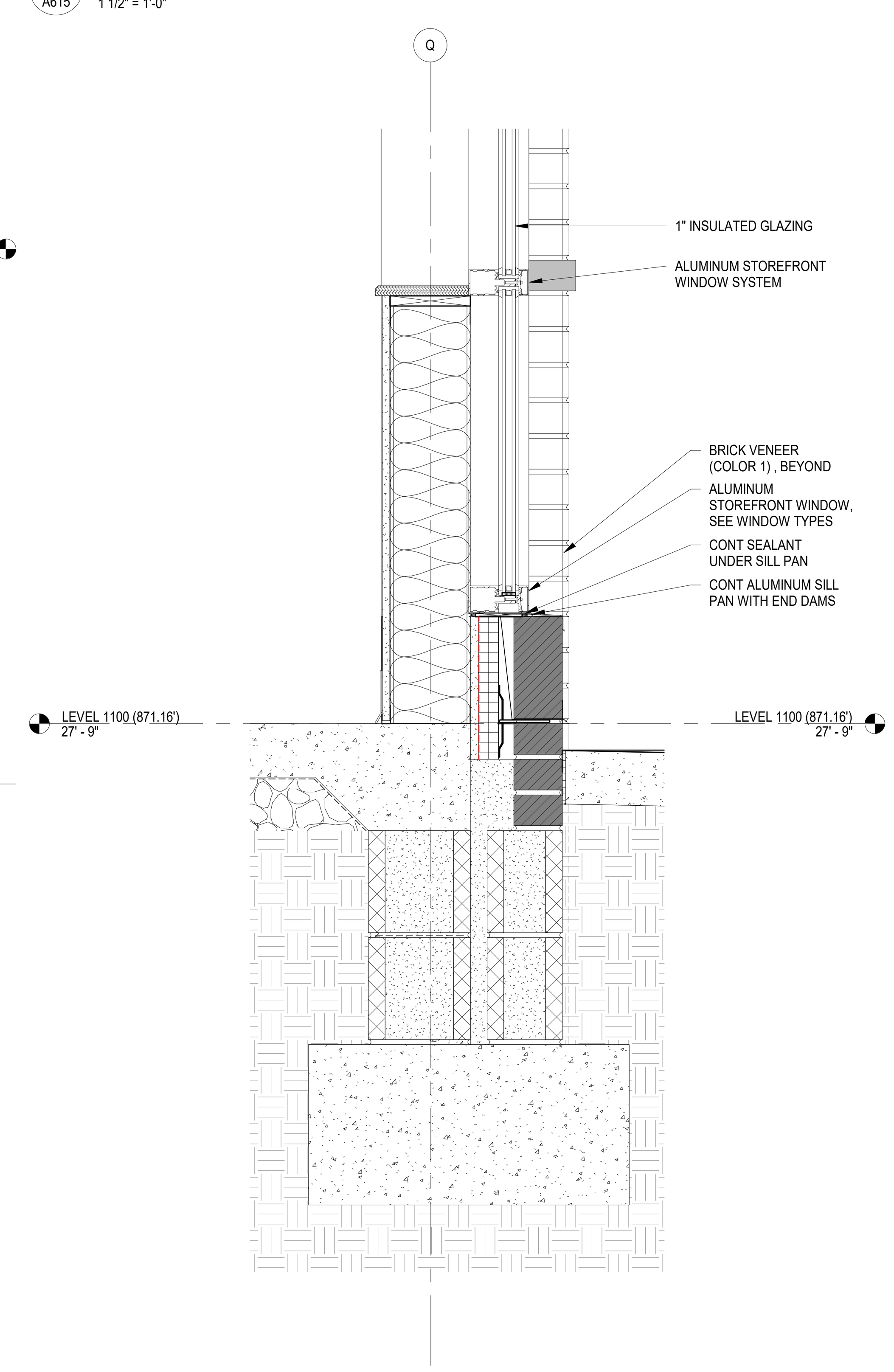
B2 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



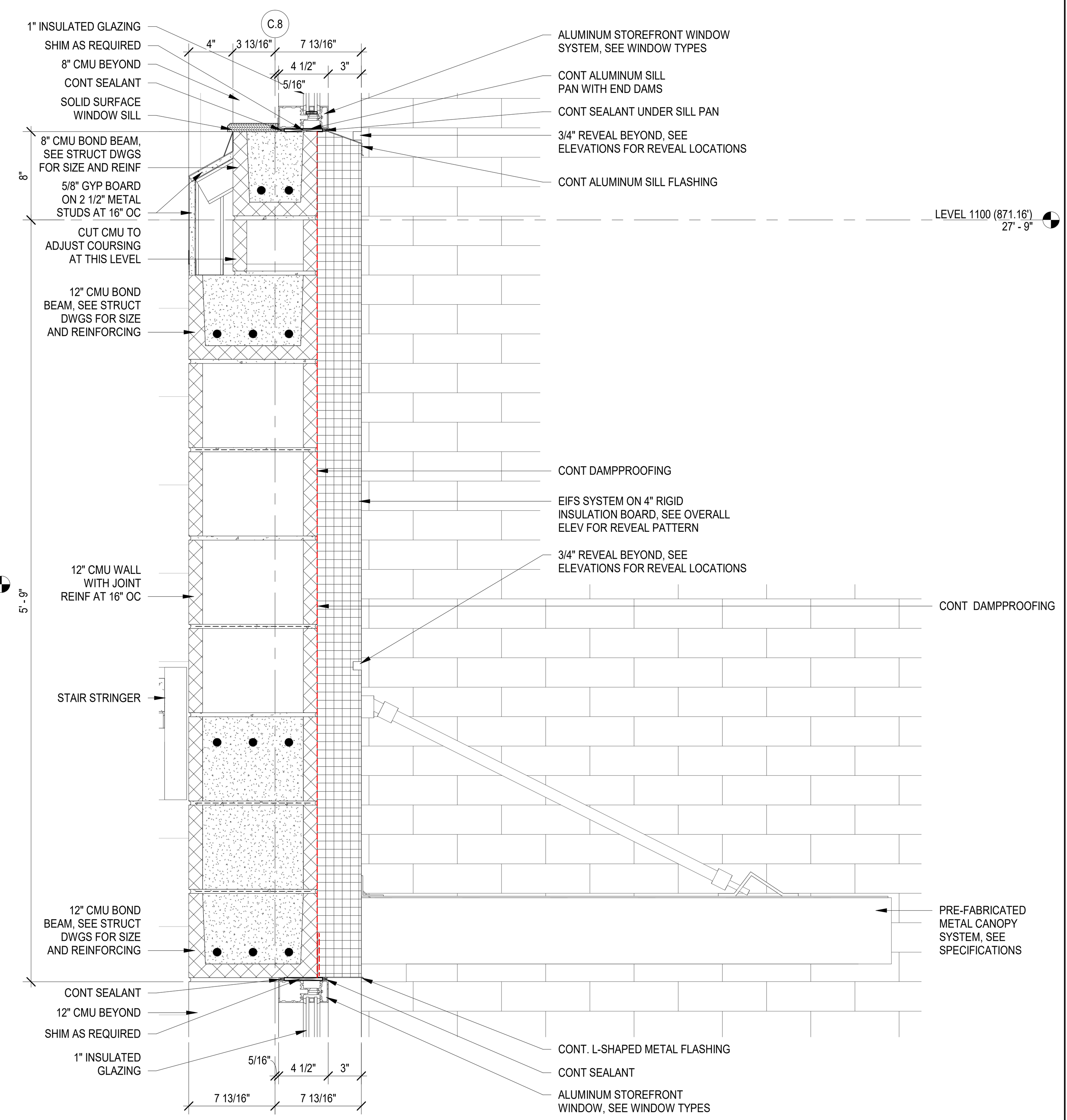
A1 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



A2 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



A3 A615 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 A615 **SECTION DETAIL**
1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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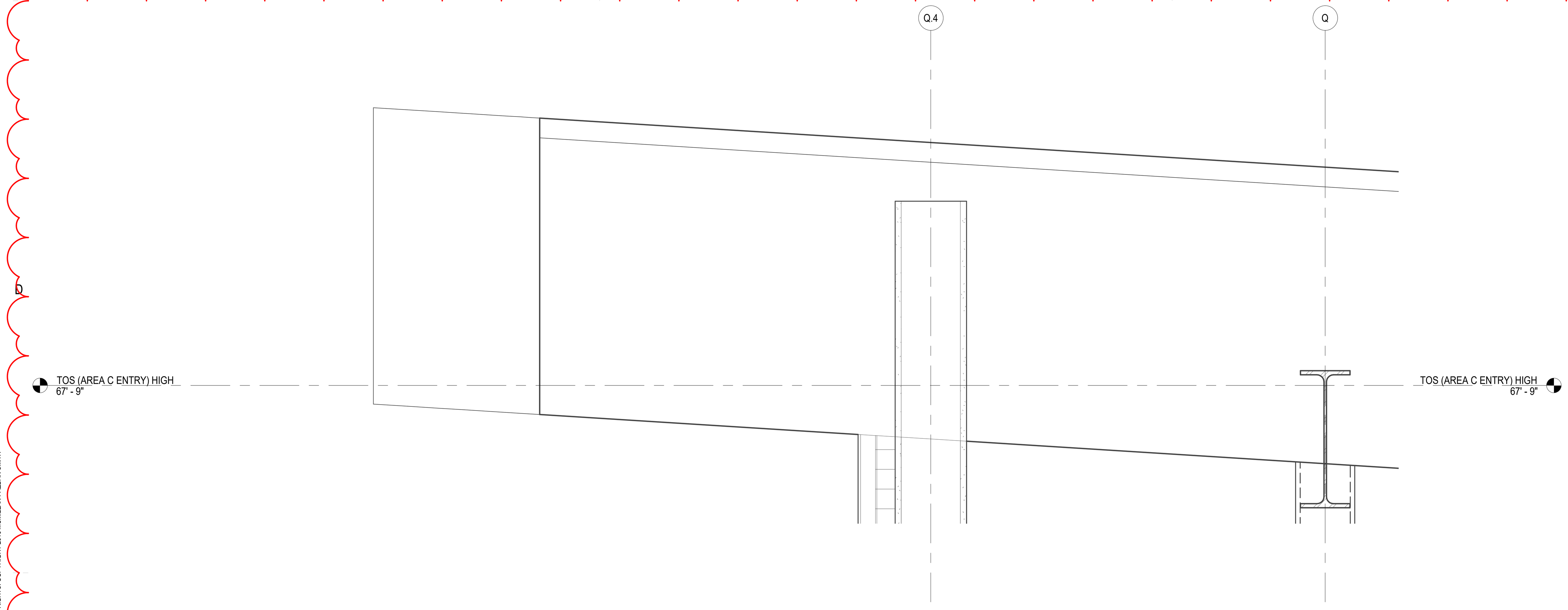
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

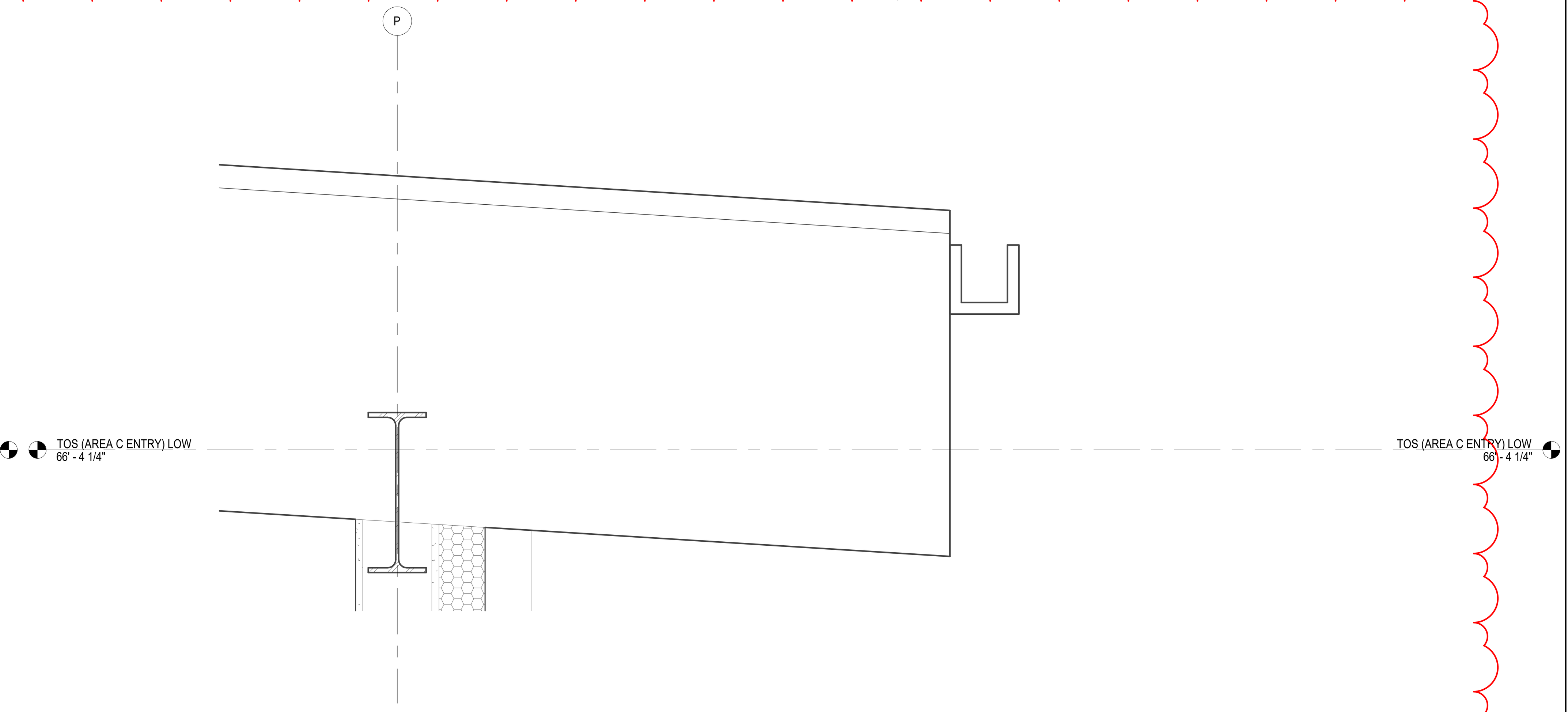
SHEET TITLE:
SECTION DETAILS

SHEET NO. PROJ. NO. 020420.00

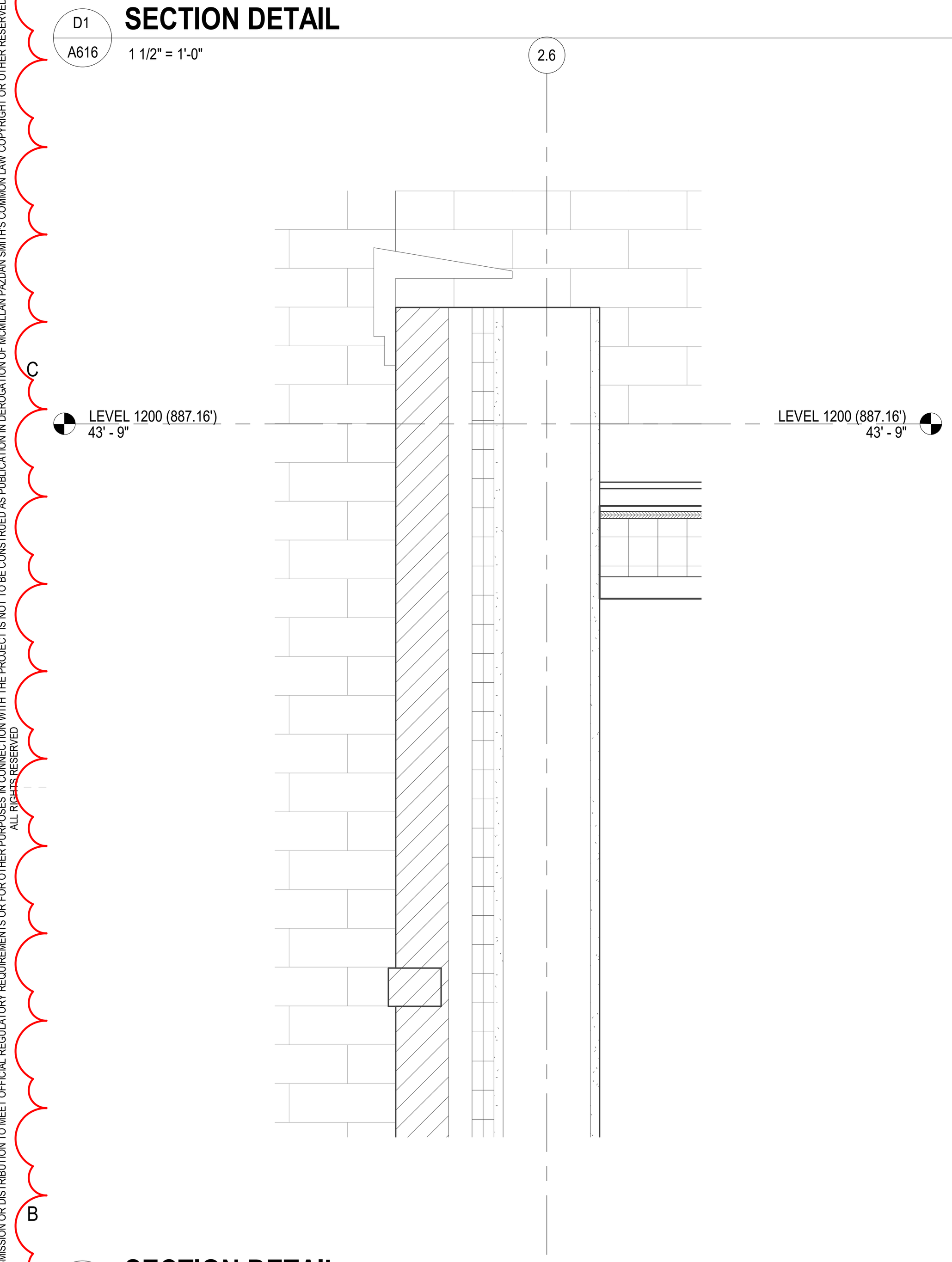
A615



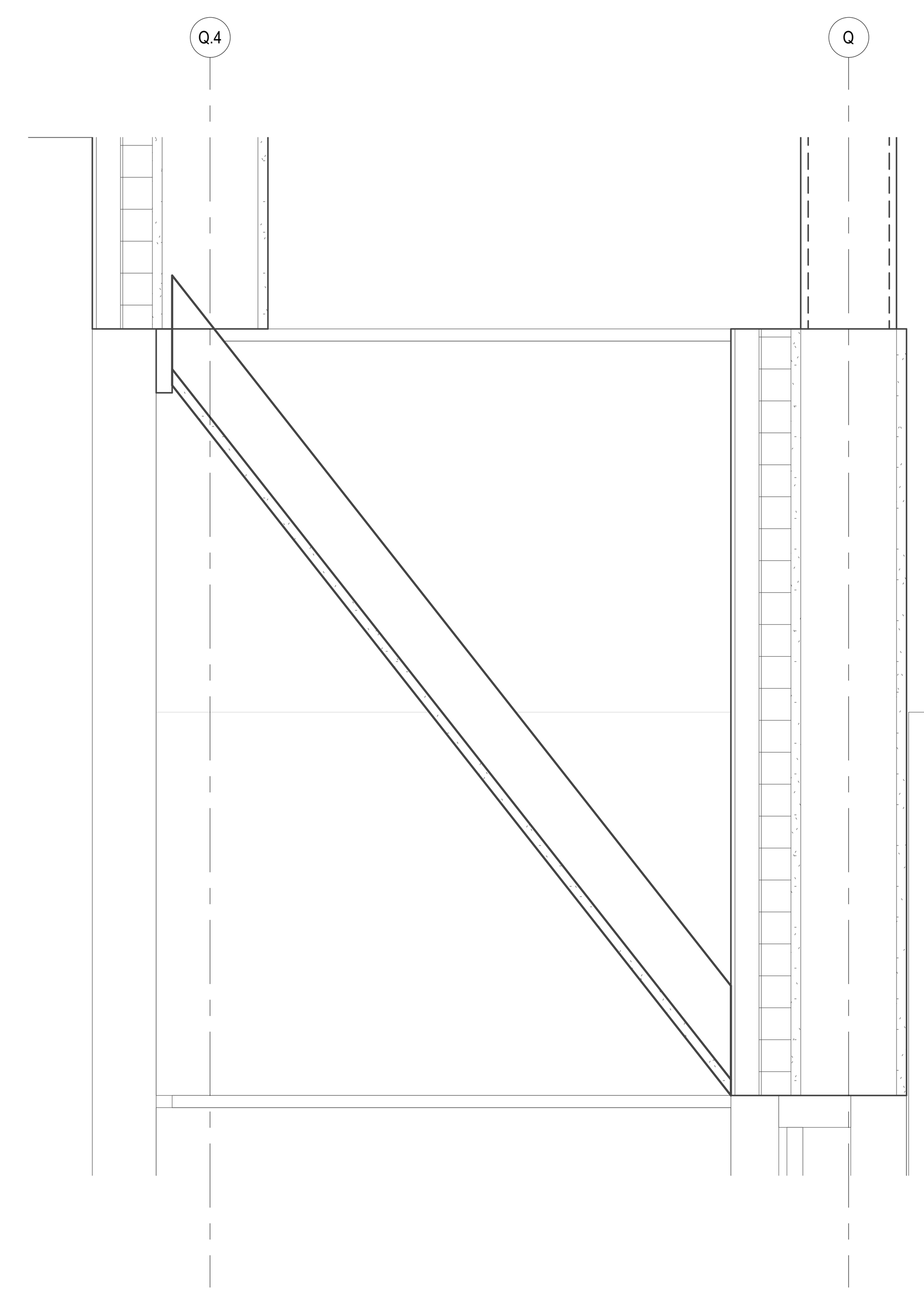
D1 A616 **SECTION DETAIL**
1 1/2" = 1'-0"



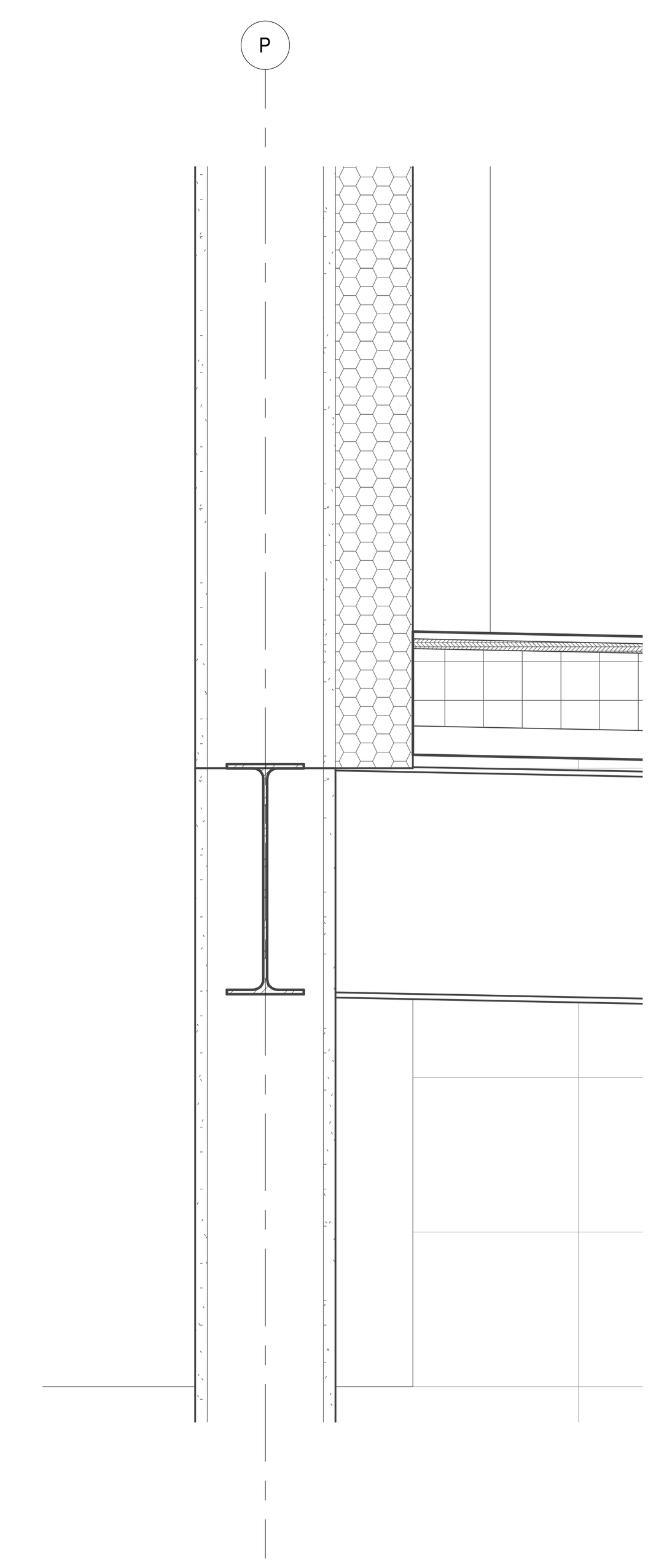
D3 A616 **SECTION DETAIL**
1 1/2" = 1'-0"



B1 A616 **SECTION DETAIL**
1 1/2" = 1'-0"

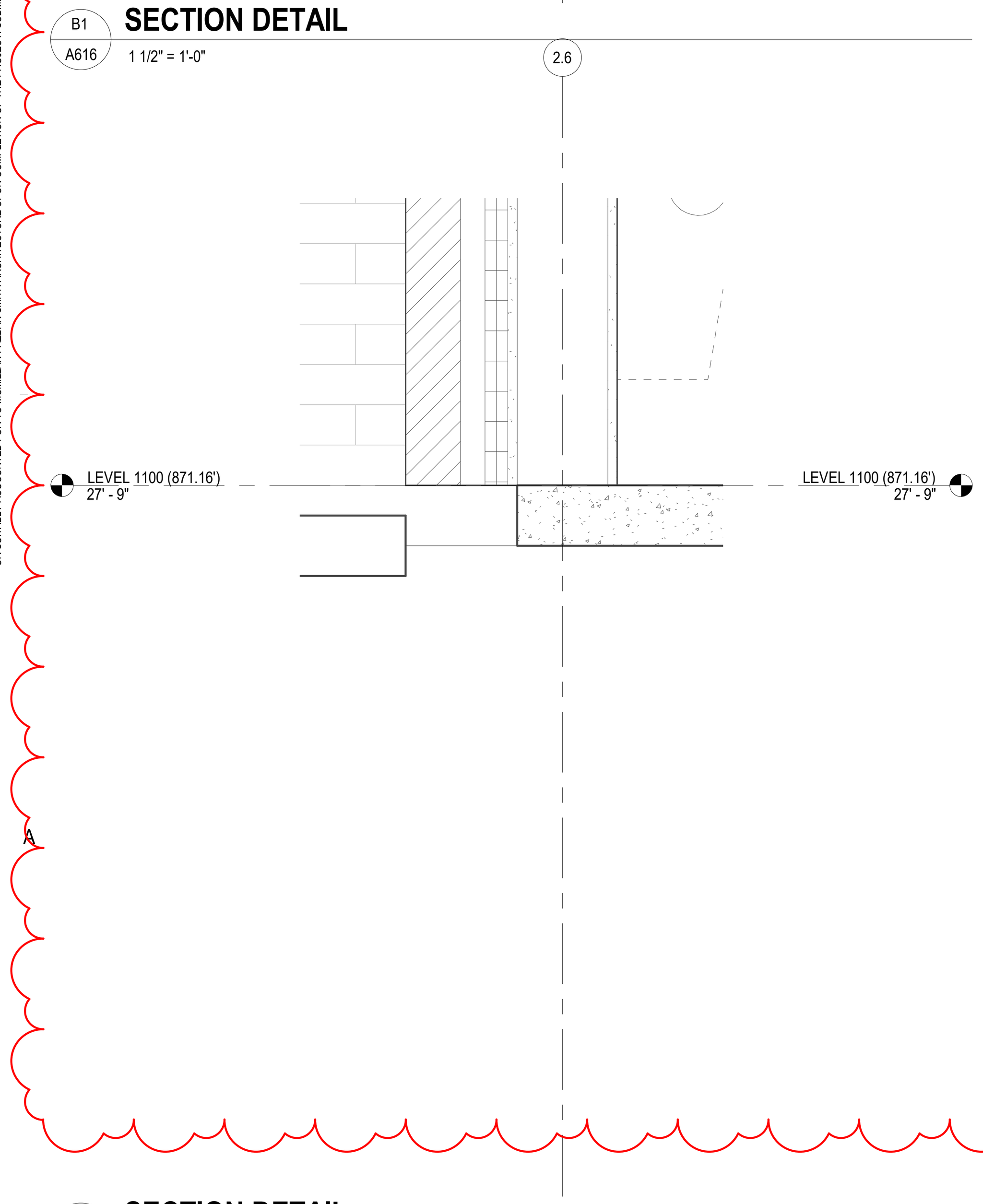


B2 A616 **SECTION DETAIL**
1 1/2" = 1'-0"

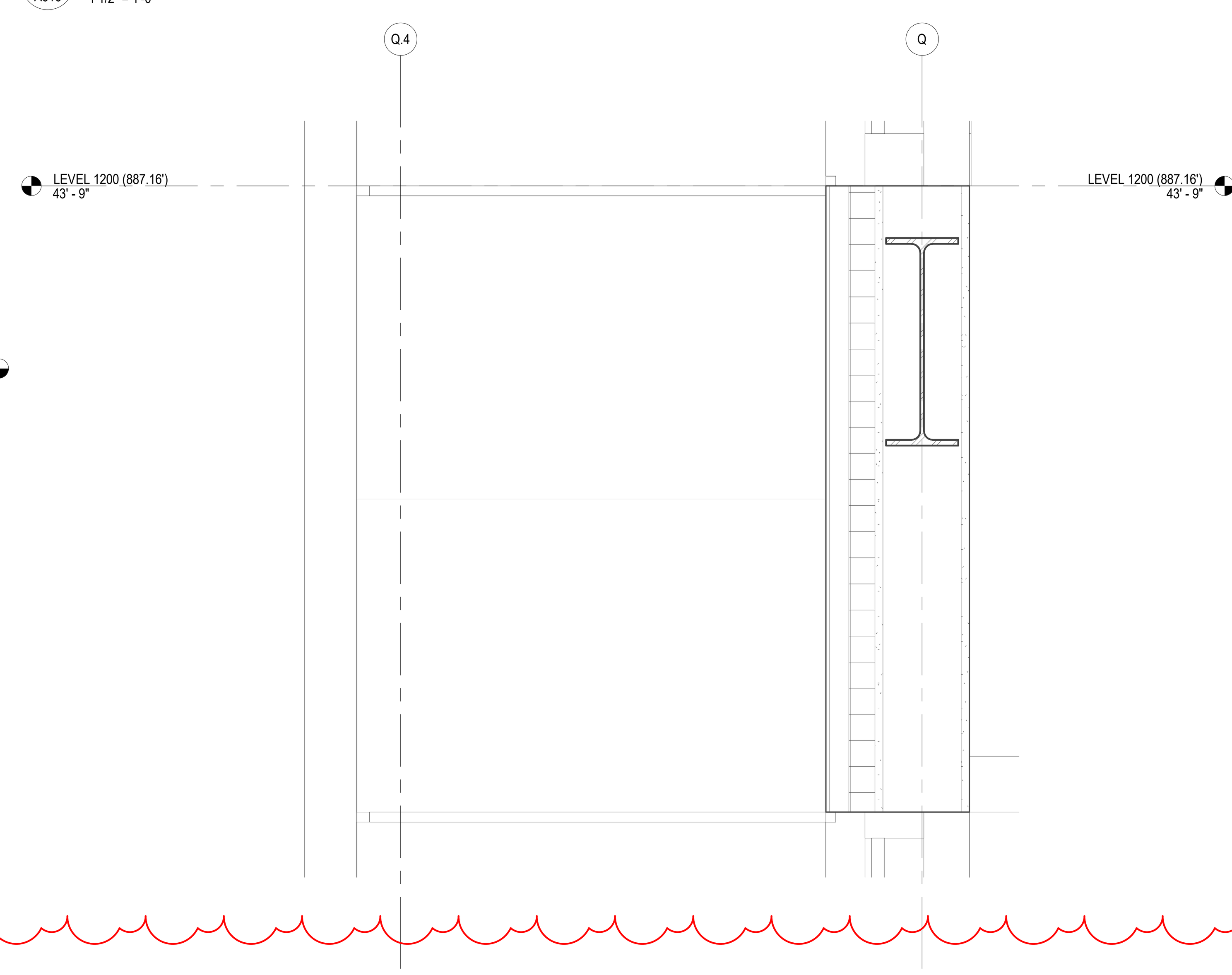


B3 A616 **SECTION DETAIL**
1 1/2" = 1'-0"

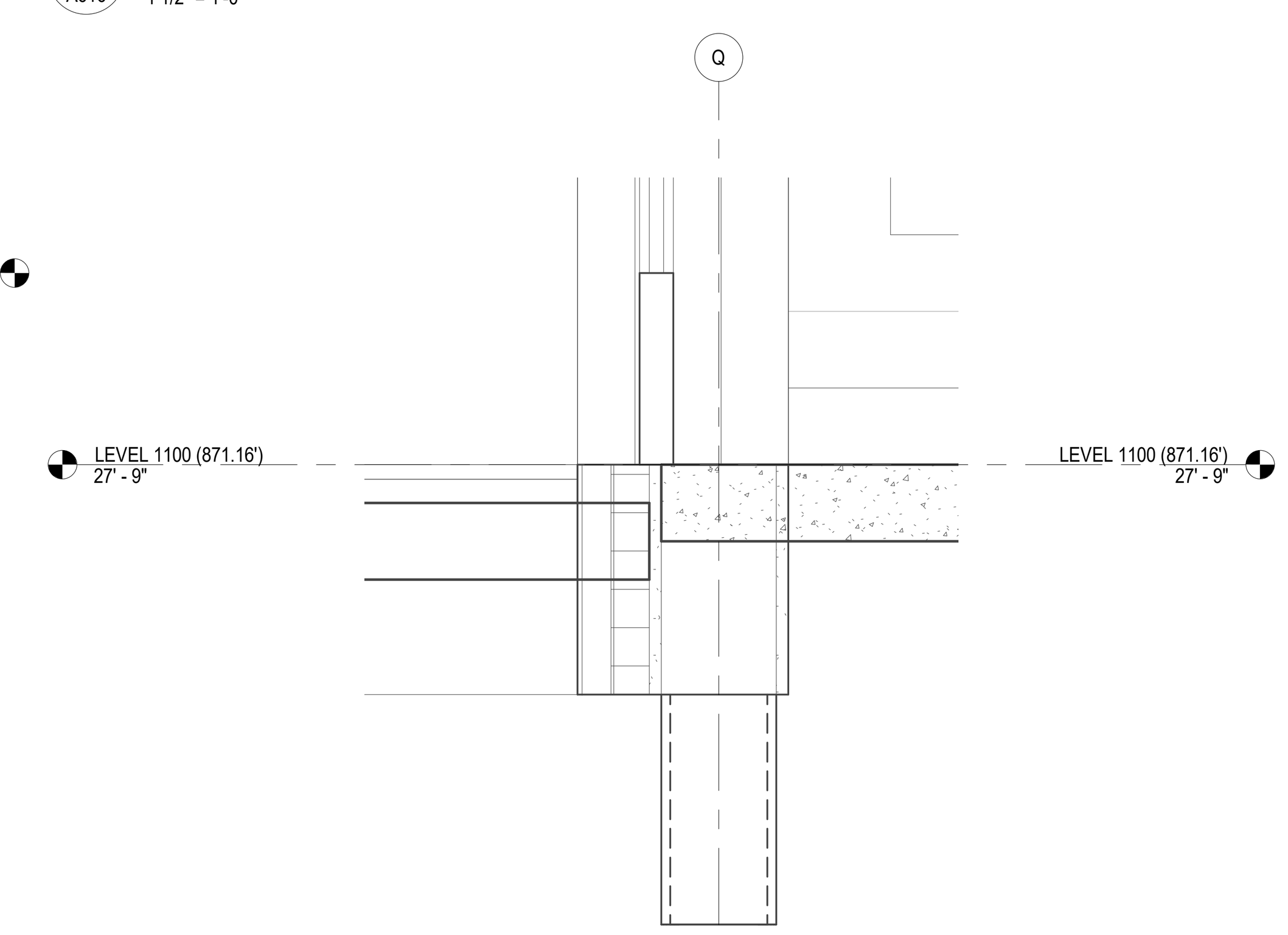
IN PROGRESS
SHEET WILL BE REISSUED IN ADDENDUM 1



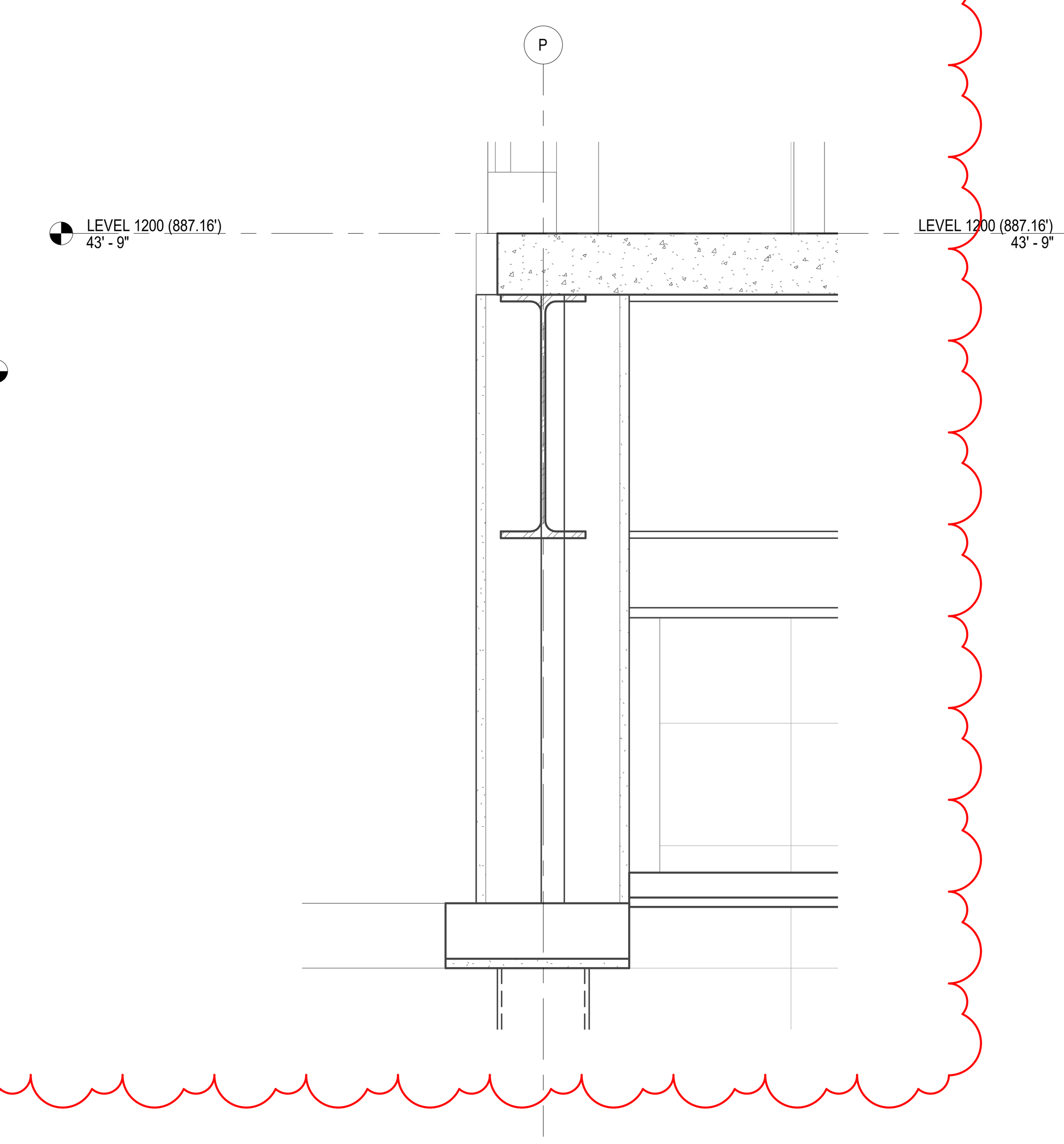
A1 A616 **SECTION DETAIL**
1 1/2" = 1'-0"



A2 A616 **SECTION DETAIL**
1 1/2" = 1'-0"



A3 A616 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 A616 **SECTION DETAIL**
1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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GMP SET 06/01/22

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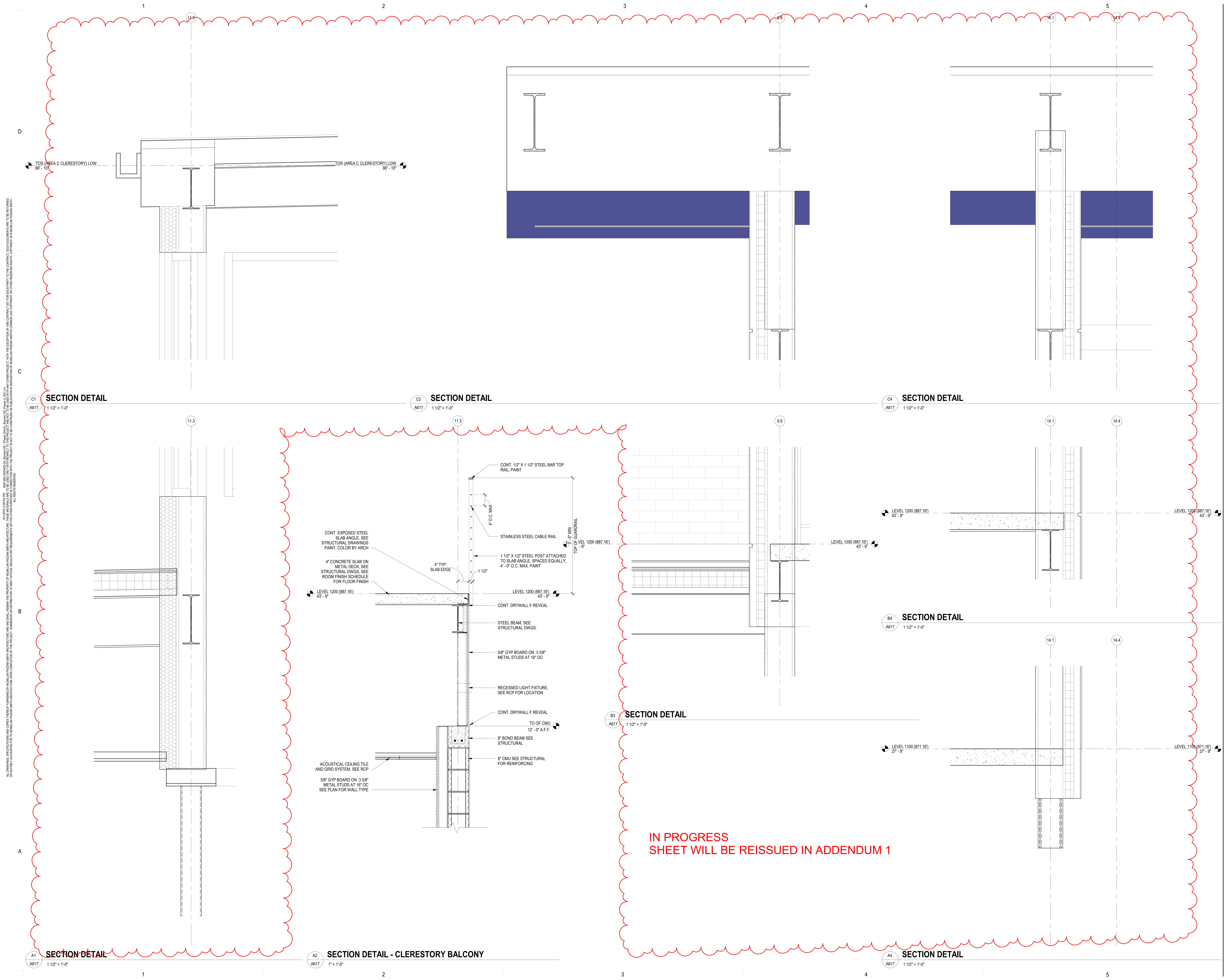
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
SECTION DETAILS

SHEET NO. A616

PROJ. NO. 020420.00



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CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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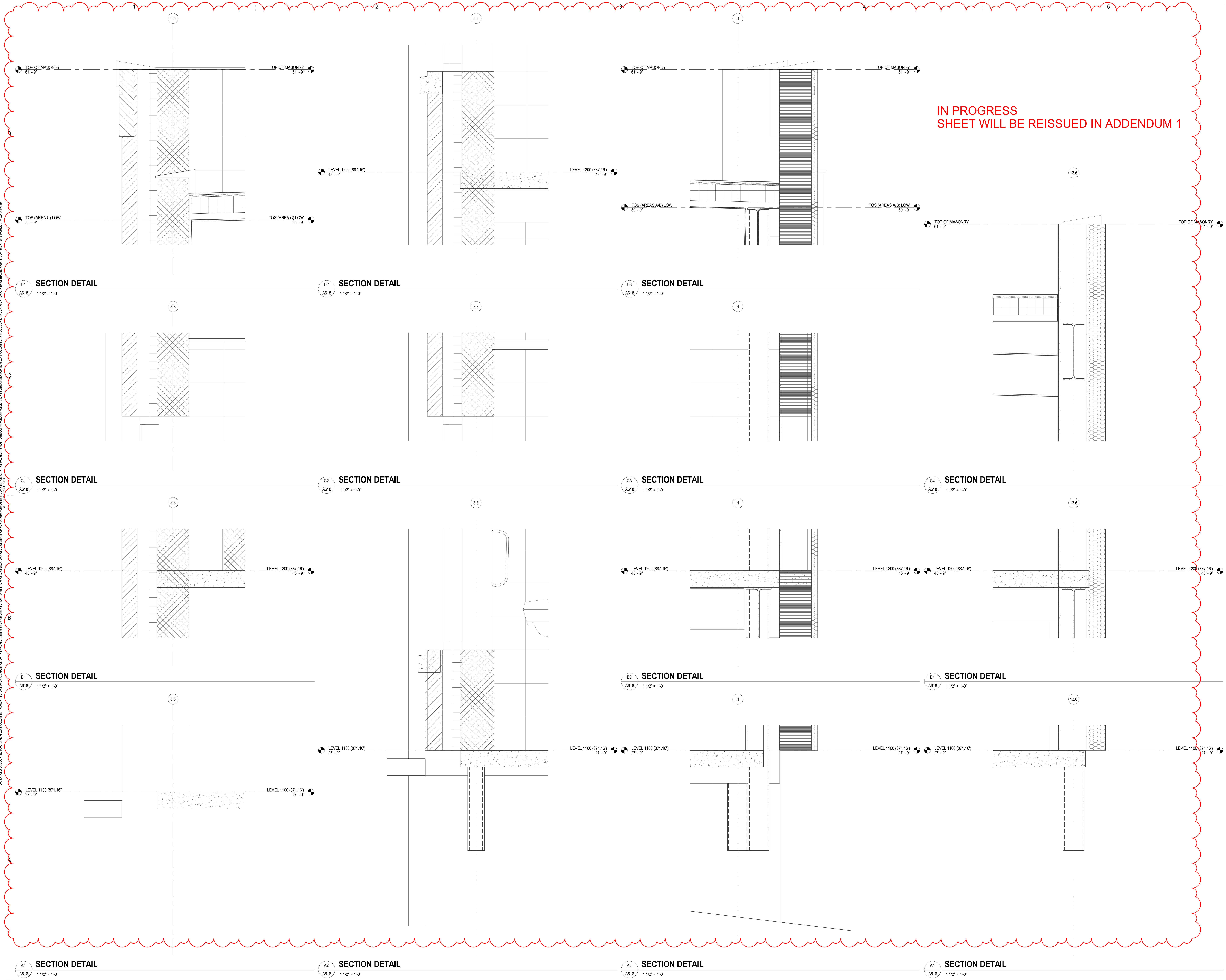
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
SECTION DETAILS

SHEET NO. A617

PROJ. NO. 020420.00



IN PROGRESS
SHEET WILL BE REISSUED IN ADDENDUM 1
TOP OF MASONRY 61' - 9"
TOS (AREA C) LOW 58' - 9"
LEVEL 1200 (887.16') 43' - 9"
TOS (AREAS A/B) LOW 59' - 0"
LEVEL 1100 (871.16') 27' - 9"
D1 A618 SECTION DETAIL 1 1/2" = 1'-0"
D2 A618 SECTION DETAIL 1 1/2" = 1'-0"
D3 A618 SECTION DETAIL 1 1/2" = 1'-0"
C1 A618 SECTION DETAIL 1 1/2" = 1'-0"
C2 A618 SECTION DETAIL 1 1/2" = 1'-0"
C3 A618 SECTION DETAIL 1 1/2" = 1'-0"
C4 A618 SECTION DETAIL 1 1/2" = 1'-0"
B1 A618 SECTION DETAIL 1 1/2" = 1'-0"
B3 A618 SECTION DETAIL 1 1/2" = 1'-0"
B4 A618 SECTION DETAIL 1 1/2" = 1'-0"
A1 A618 SECTION DETAIL 1 1/2" = 1'-0"
A2 A618 SECTION DETAIL 1 1/2" = 1'-0"
A3 A618 SECTION DETAIL 1 1/2" = 1'-0"
A4 A618 SECTION DETAIL 1 1/2" = 1'-0"

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CONSULTANT LOGO

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GMP SET 06/01/22

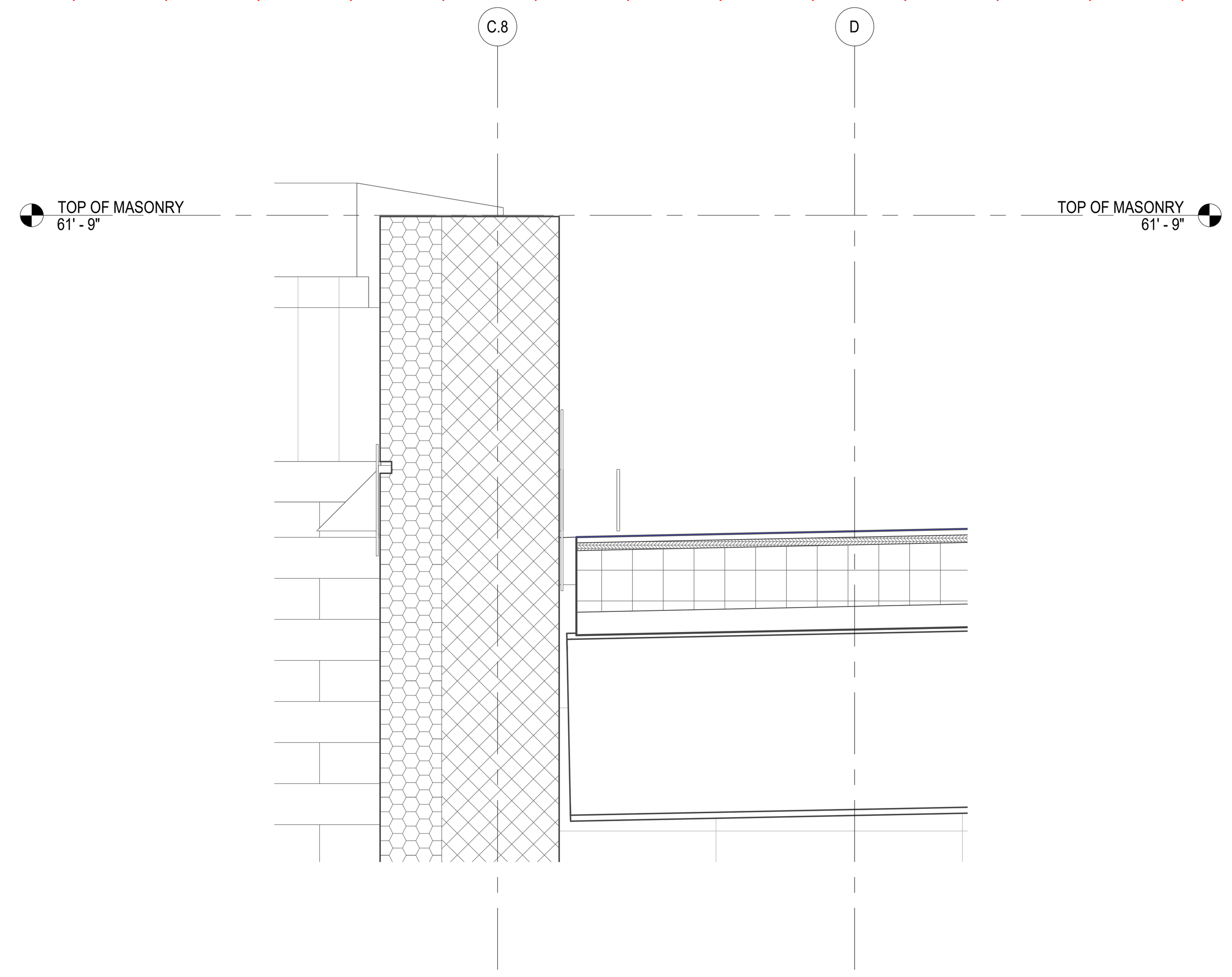
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
SECTION DETAILS

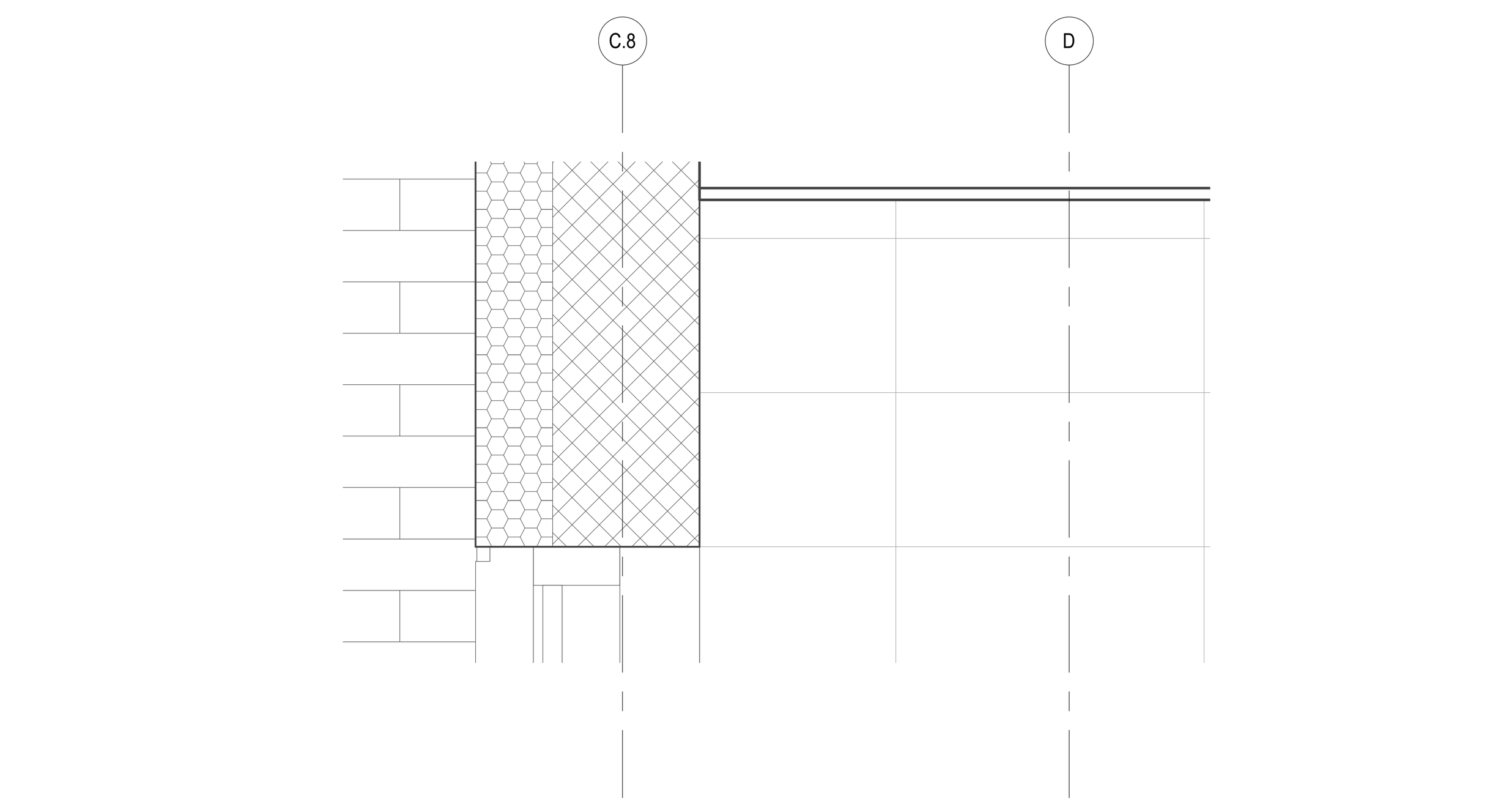
SHEET NO. A618

PROJ. NO. 020420.00

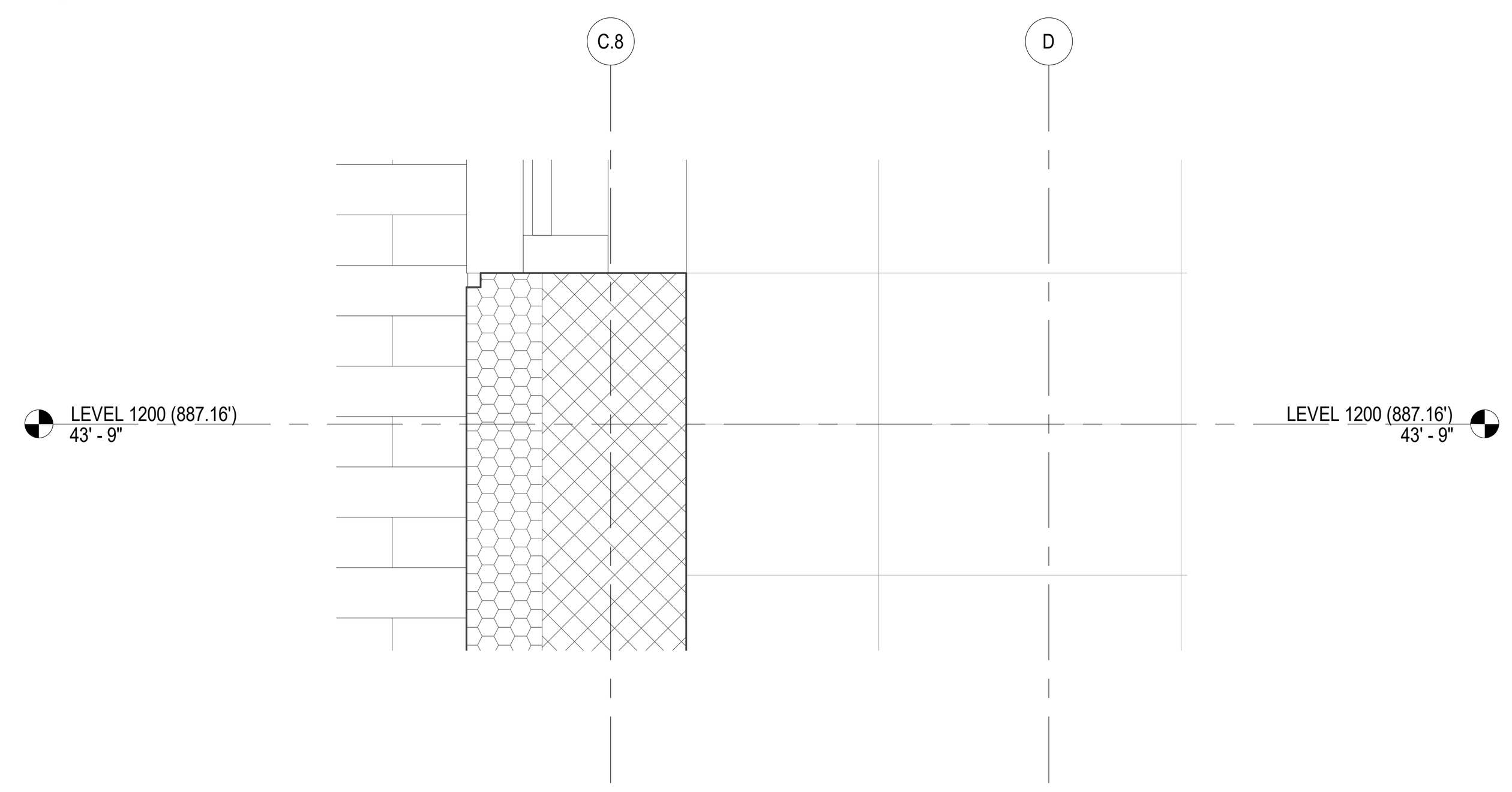
IN PROGRESS
SHEET WILL BE REISSUED IN ADDENDUM 1



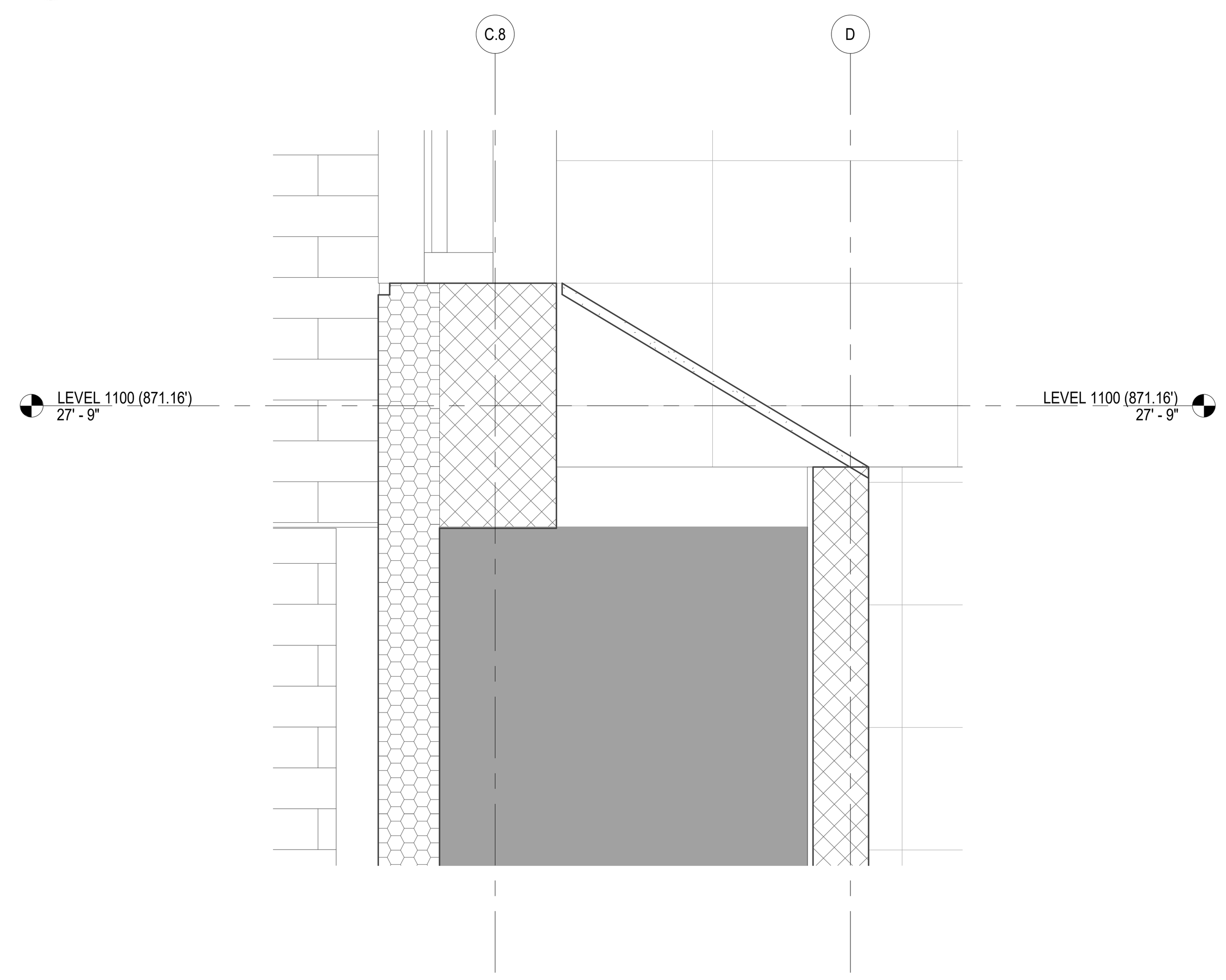
D2 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



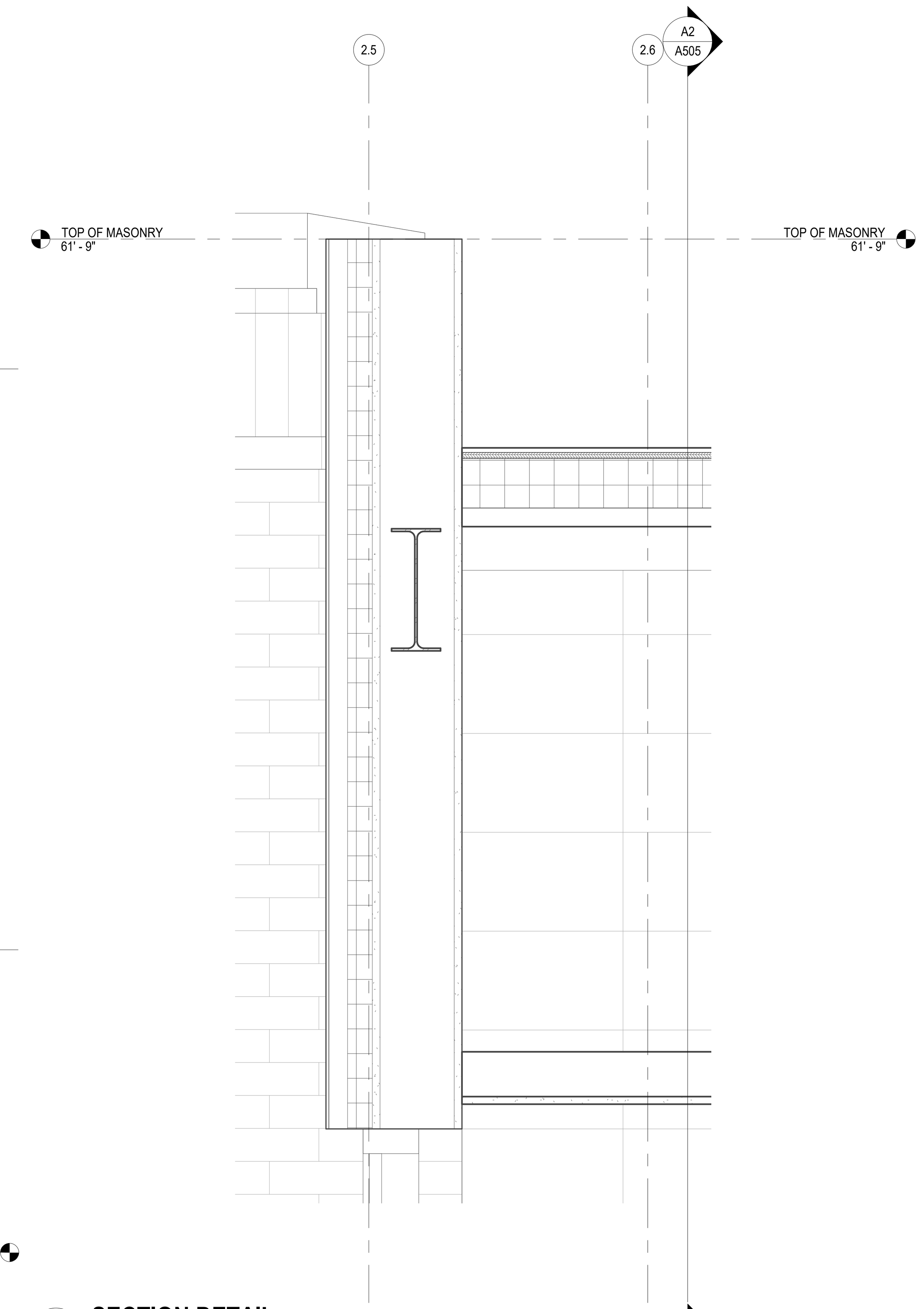
C2 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



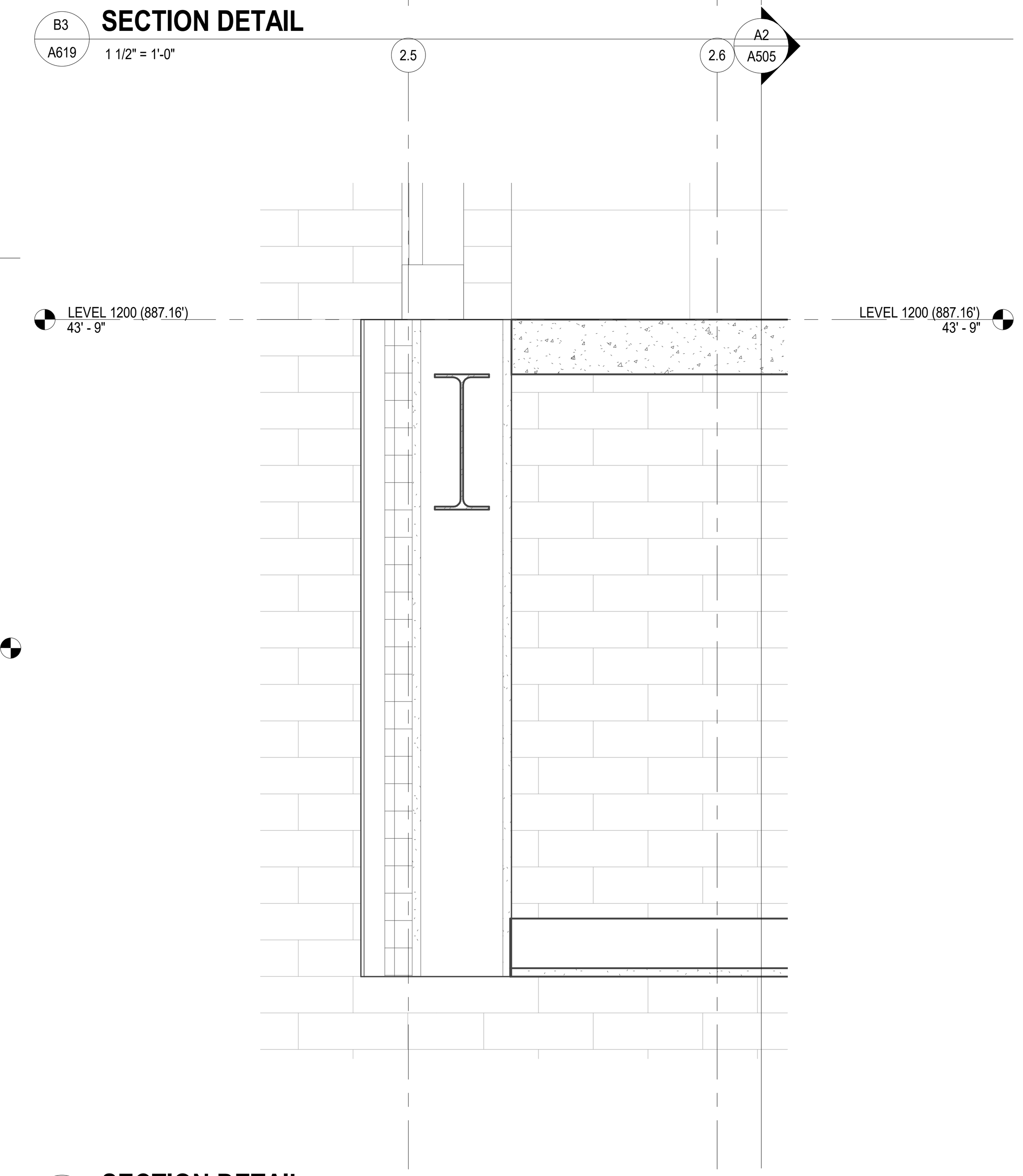
B2 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



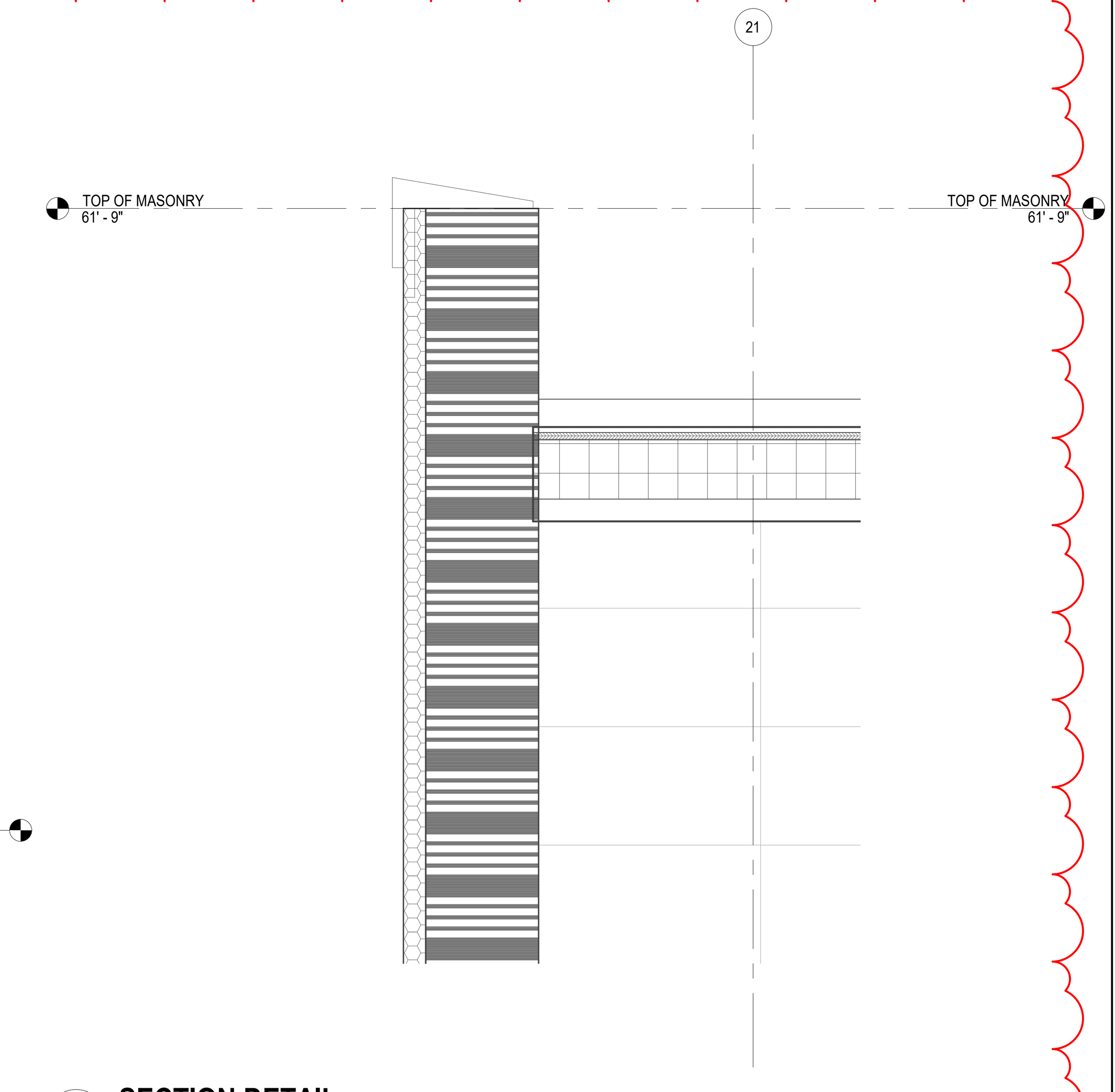
A2 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



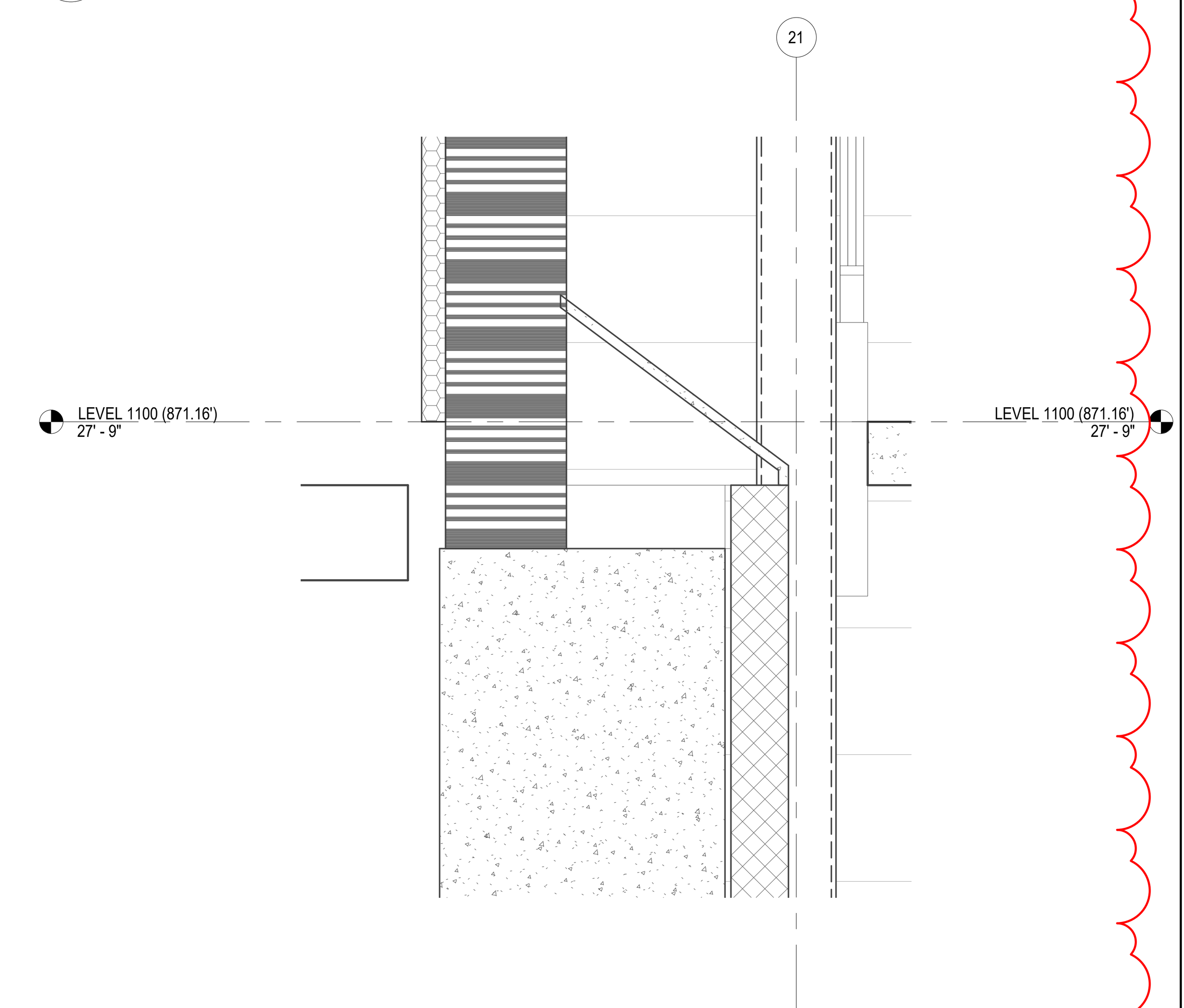
B3 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



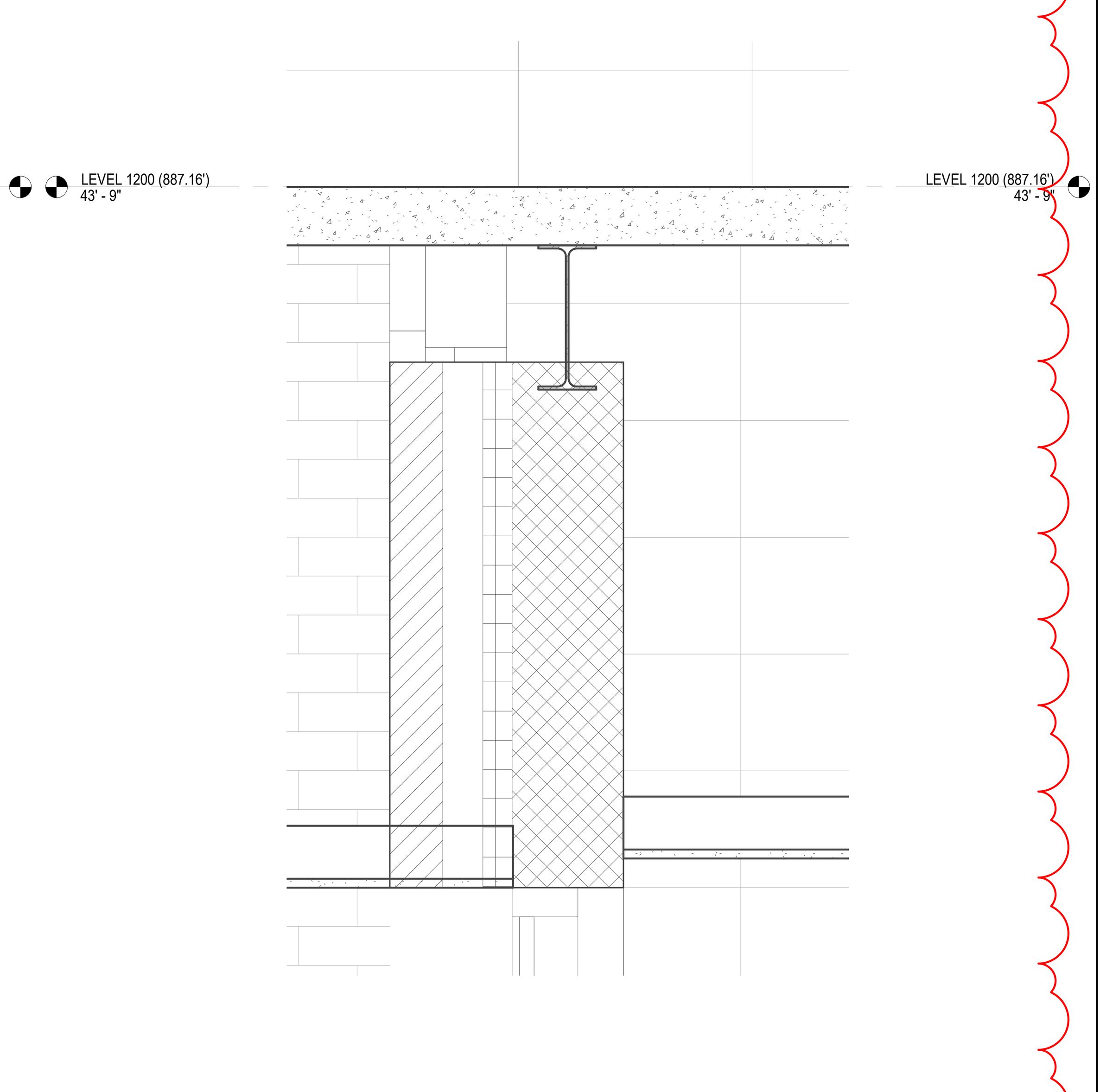
A3 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



C4 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



B4 A619 **SECTION DETAIL**
1 1/2" = 1'-0"



A4 A619 **SECTION DETAIL**
1 1/2" = 1'-0"

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

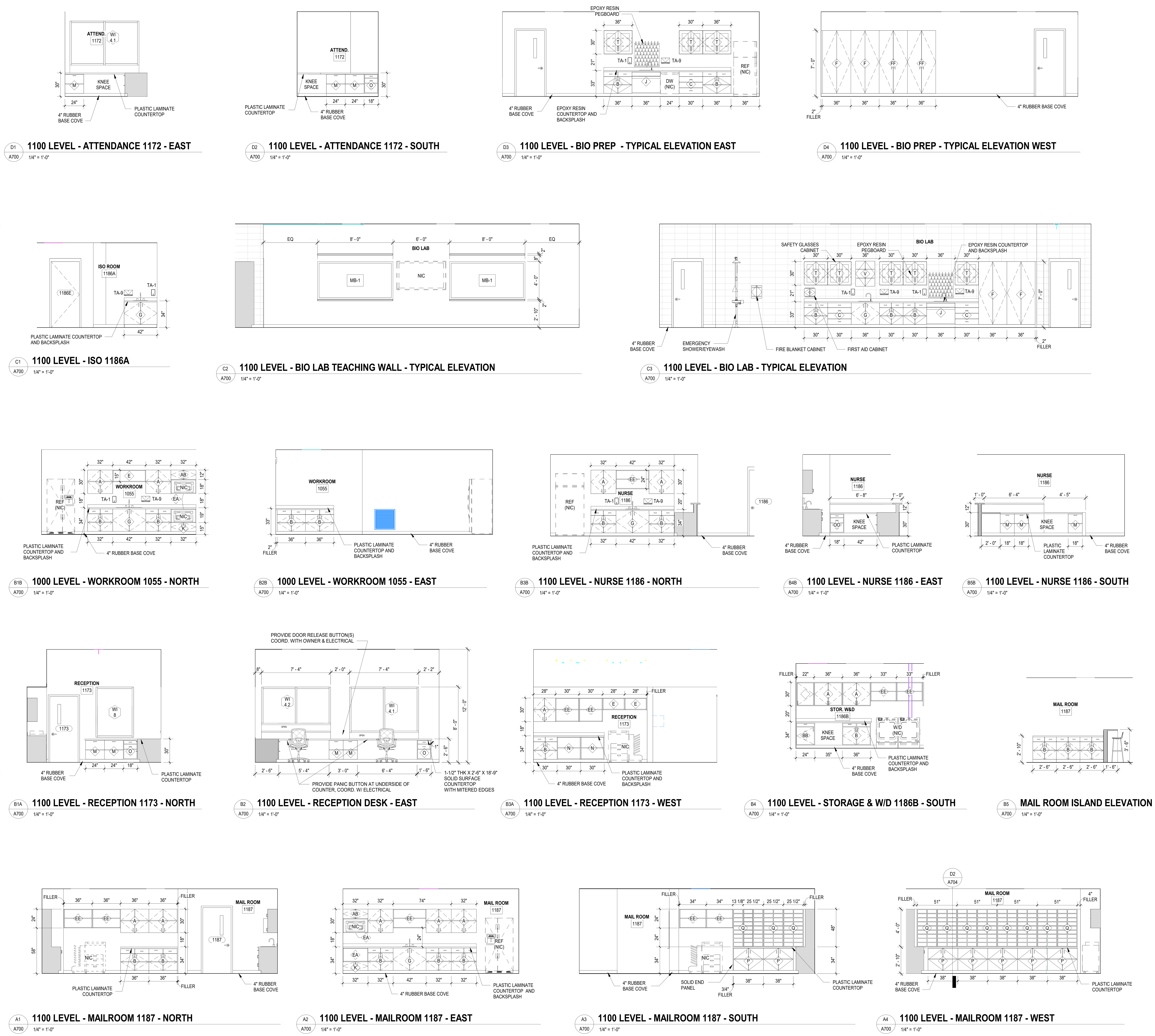
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
SECTION DETAILS

SHEET NO. A619
PROJ. NO. 020420.00



CASEWORK LEGEND

A	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
AA	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOOR
AB	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
B	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
BB	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 1 DOOR, 1 DRAWER
C	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET W/ 4 DRAWERS. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
D	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x 36" HIGH BOOKSHELF W/ 2 ADJUSTABLE SHELVES
E	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EA	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EE	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET W/ ADJSUTABLE SHELF
F	36"W x 24"D x 84"H GENERAL STORAGE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS, WHERE NECESSARY) W/ TWO HINGED DOORS WITH LOCKS, FIXED VERTICAL DIVIDER, FIVE ADJUSTABLE SHELVES EACH SIDE. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
FF	36"W x 24"D x 84"H TEACHER'S WARDROBE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS AS REQUIRED) W/ TWO HINGED DOORS W/ LOCK, FIXED VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES, TWO FIXED SHELVES, CLOSET ROD, ONE LEGAL SIZE FILE DRAWER, MIRROR, PIN TRAY.
G	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x 33" H. SINK CABINET, TWO HINGED DOORS AND REMOVABLE SPLIT BACK. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
H	72" TALL x 24" DEEP x 36" WIDE METAL SHELVING SYSTEM
J	(WIDTH SHOWN ON ELEVATIONS) x 23"D x (HEIGHT SHOWN ON ELEVATIONS) SLOPED ADA SINK CABINET W/ REMOVABLE FRONT PANEL.
K	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x (HEIGHT SHOWN ON ELEVATION) BASE CABINET, TWO HINGED DOORS
L	(WIDTH SHOWN ON ELEVATIONS) x 12" D x (HEIGHT SHOWN ON ELEVATIONS) BOOK CASE W/ ONE, TWO OR FOUR ADJUSTABLE SHELVES (DEPENDS ON HEIGHT) BACK AND PLASTIC LAMINATE TOP INCLUDED.
M	(WIDTH SHOWN ON ELEVATIONS) x (DEPTH SHOWN ON PLAN) x (HEIGHT SHOWN ON ELEVATIONS) FILE CABINET W/ TWO LEGAL SIZE DRAWERS.
N	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP OPEN BASE CABINET W/ ADJSUTABLE SHELF
O	18"W x 30"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
OO	18"W x 24"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
P	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF
Q	(WIDTH SHOWN ON ELEVATIONS) x 20"D x (HEIGHT SHOWN ON ELEVATIONS) 12" CLEAR WIDTH MAIL CUBBIES
R	DOUBLE FACED DEMONSTRATION FUME HOOD. 60" x 84" x 30 1/2"D. INCLUDE ONE COLD WATER GOOSENECK FAUCET, ONE DOUBLE GAS COCK, TWO DUPLEX (GRCI) RECEPTACLES, ONE VAPOR TIGHT INCANDESCENT LAMP AND SWITCH, ONE EPOXY RESIN SINK, 12" x 8" x 6"D. WITH 1" THICK EPOXY RESIN TOP. SIDES ARE SOLID FOR INSTALLATION BETWEEN ROOMS. EXHAUST BY HVAC CONTRACTOR. COLLEGEDALE PD-99816V ON DHBB-9F60 (DOUBLE FACED BASE CABINET). ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
S	44" TALL x 43" WIDE x 18" DEEP ACID CABINET W/ 1 ADJUSTABLE SHELF
T	12" DEEP LOCKABLE GLASS DOOR WALL CABINET W/ ADJUSTABLE SHELVES
V	24" WIDE WALL CABINET W/ SAFETY GLASSES STORAGE
W	12" DEEP WALL CABINET - FIRST AID
X	CORNER WALL CABINET
XX	BASE CORNER CABINET
ZZ	(WIDTH SHOWN ON PLANS) x (DEPTH SHOWN ON PLANS) x 84"H SHELVING UNIT W/ SIX ADJUSTABLE SOLID PINE SHELVES W/ METAL EDGES

MARKER BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
MB-1	8'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	70
MB-2	6'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	31

NOTE:
1. ALL BOTTOM OF MARKER BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF MARKER BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

TACK BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TB-1	6'-0"W X 4'-0"H TACK BOARD	7

NOTE:
1. ALL BOTTOM OF TACK BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF TACK BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

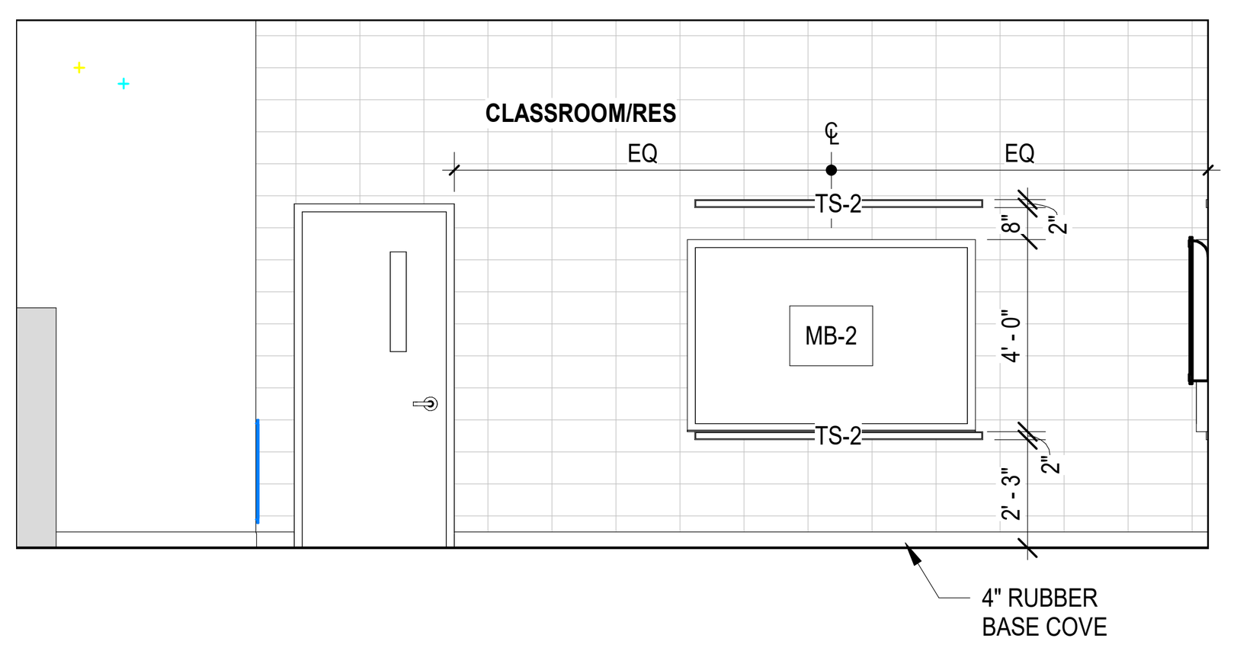
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: SEA

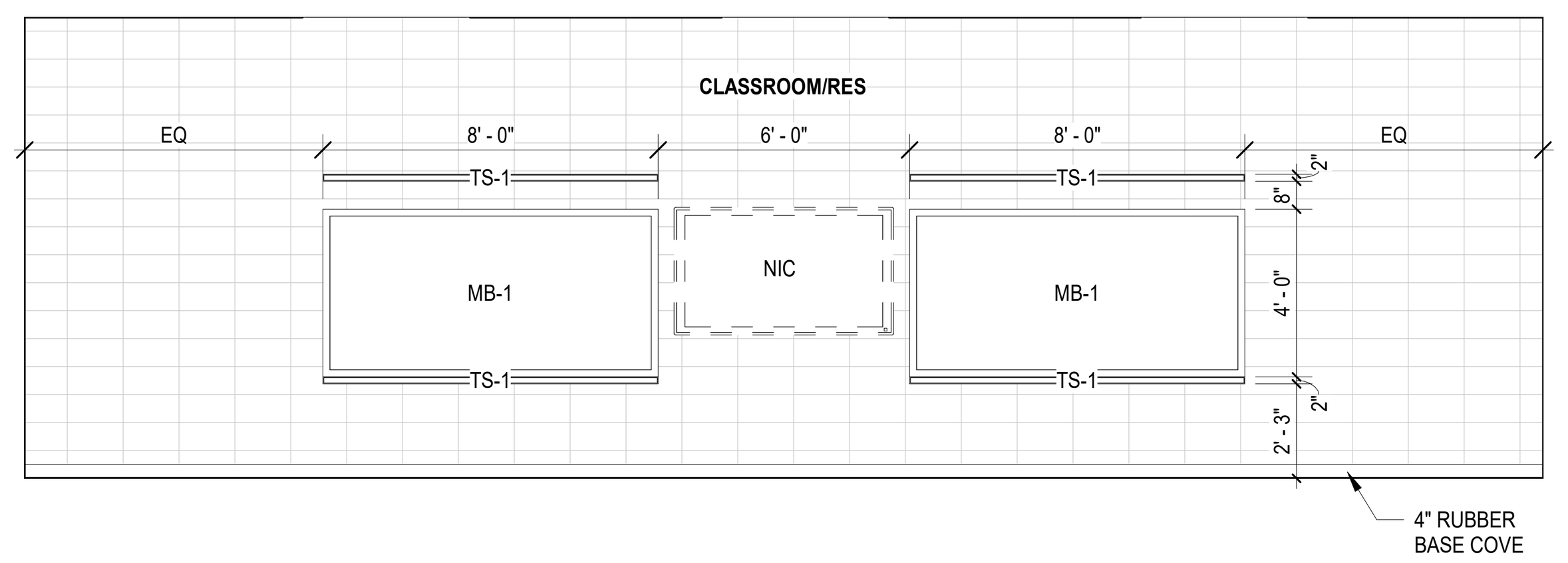
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. A700

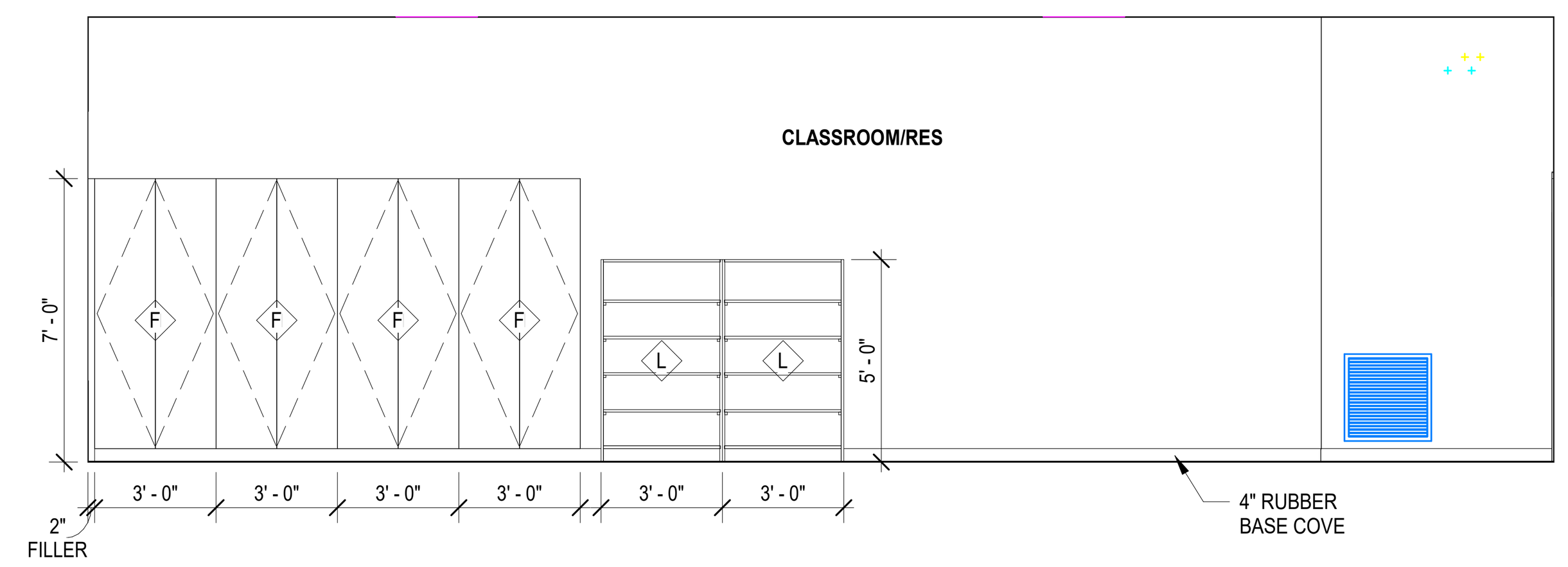
PROJ. NO. 020420.00



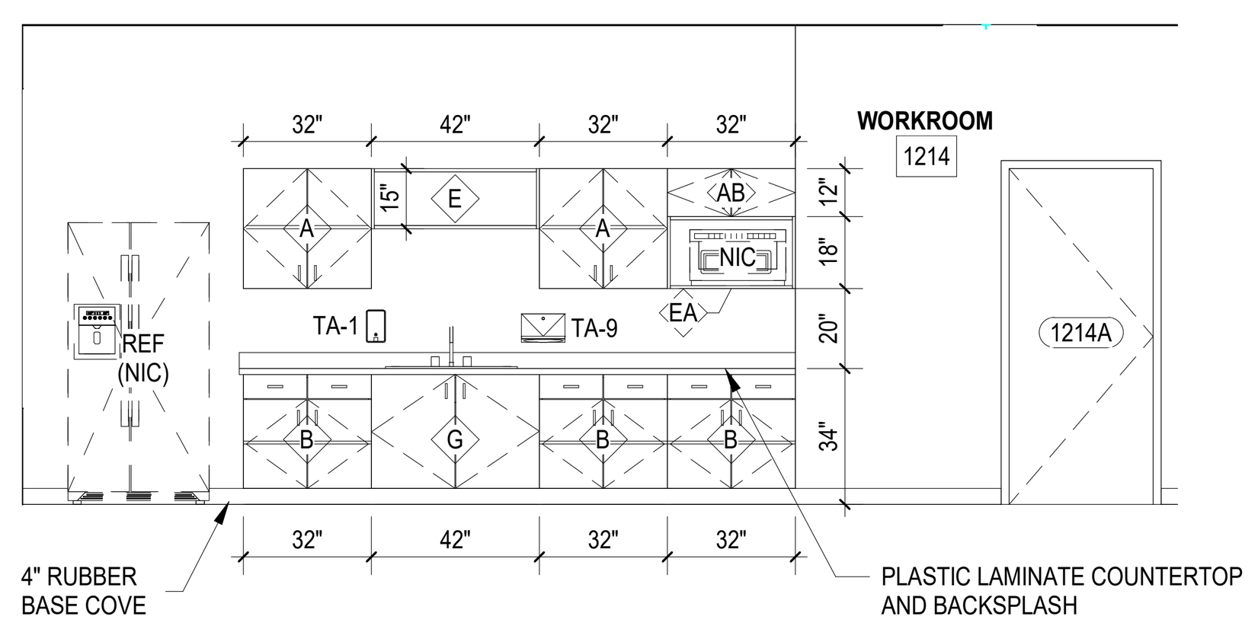
D1 / A701 — **CLASSROOM - TYPICAL ELEVATION 1**
1/4" = 1'-0"



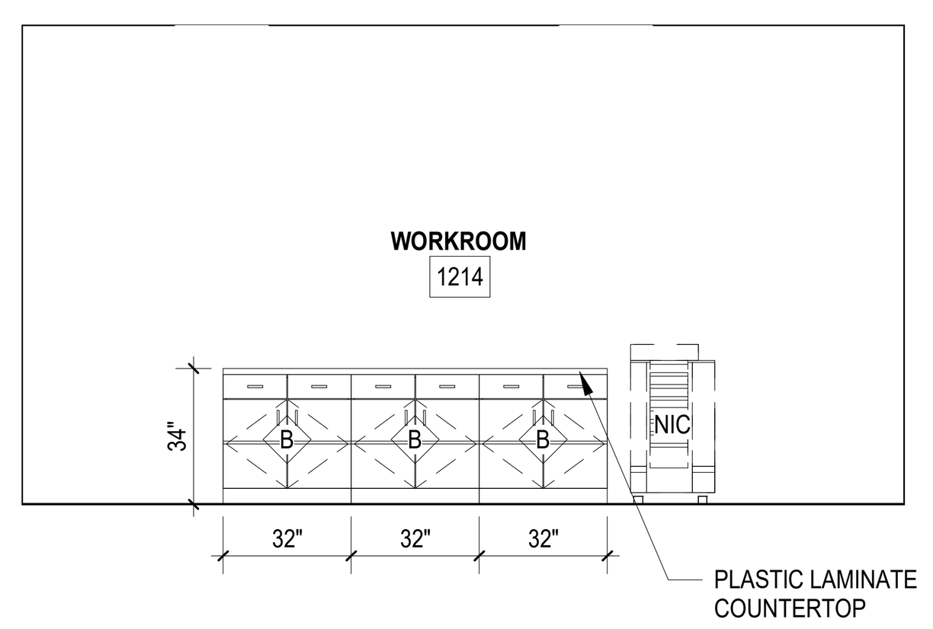
D2 / A701 — **CLASSROOM - TYPICAL ELEVATION 2**
1/4" = 1'-0"



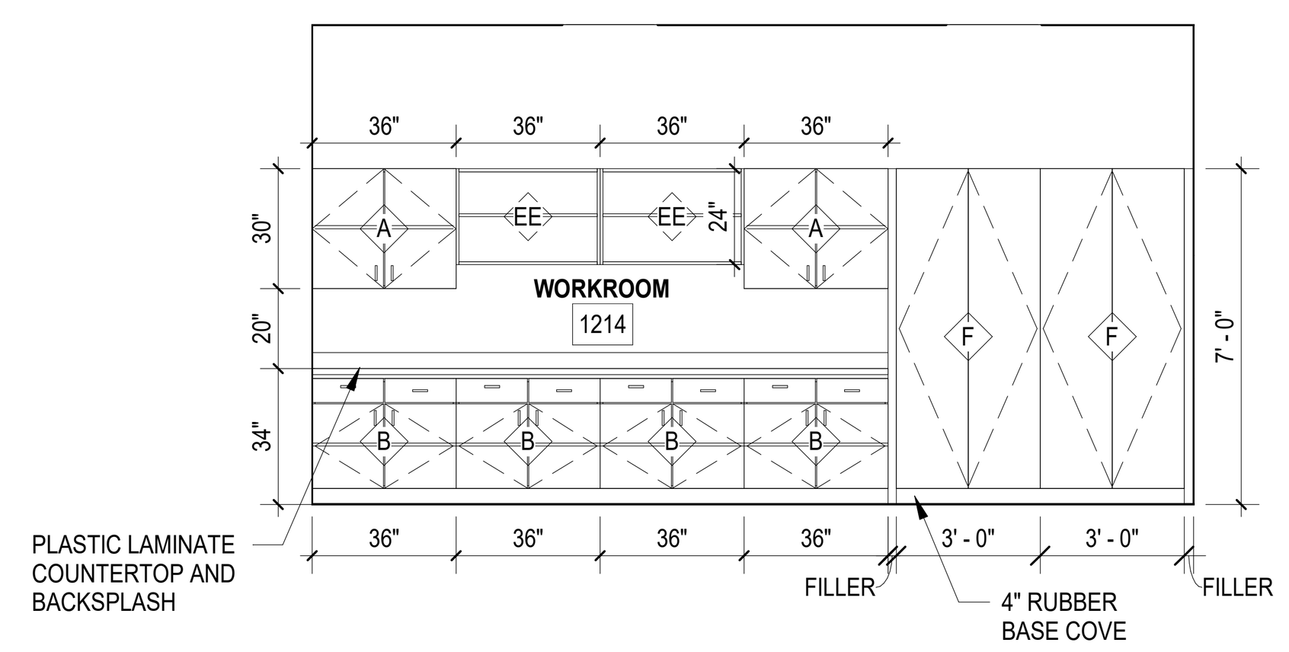
D3 / A701 — **CLASSROOM - TYPICAL ELEVATION 3**
1/4" = 1'-0"



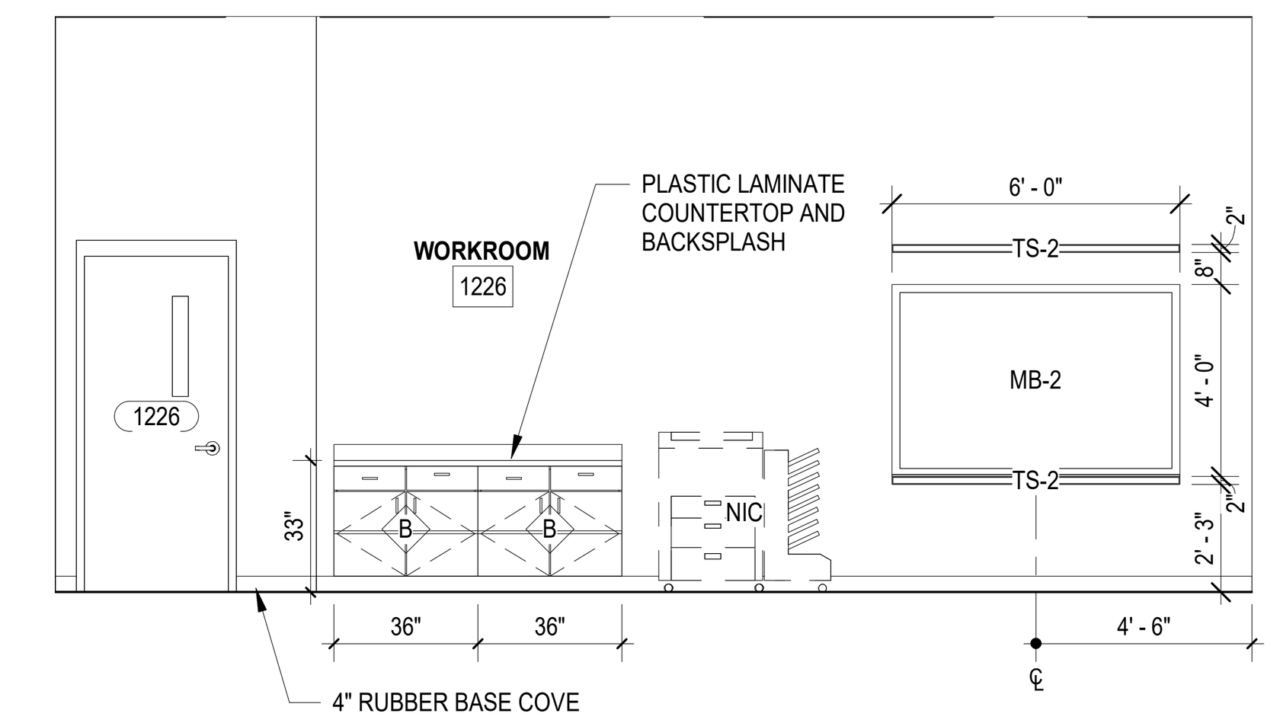
C1 / A701 — **1200 LEVEL - WORKROOM 1214 - EAST A**
1/4" = 1'-0"



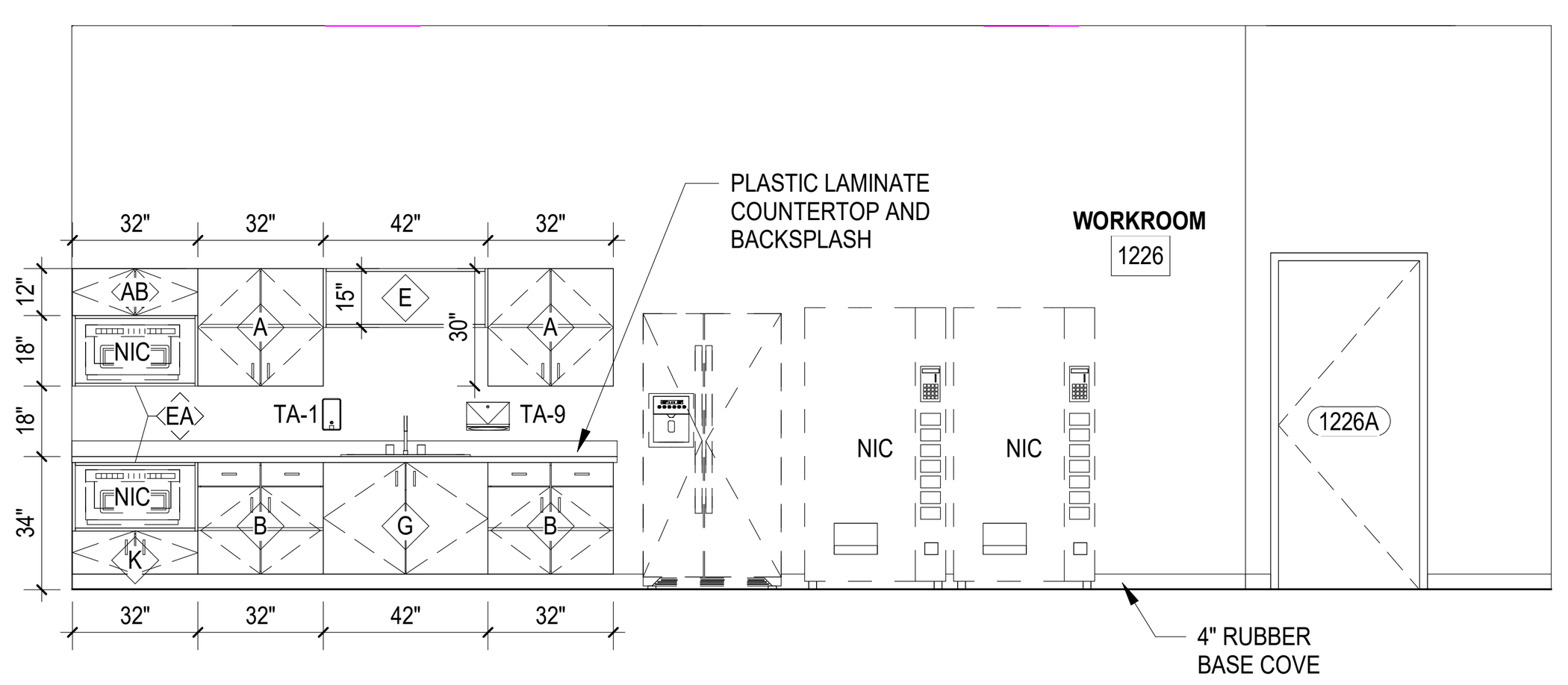
C2 / A701 — **1200 LEVEL - WORKROOM 1214 - EAST B**
1/4" = 1'-0"



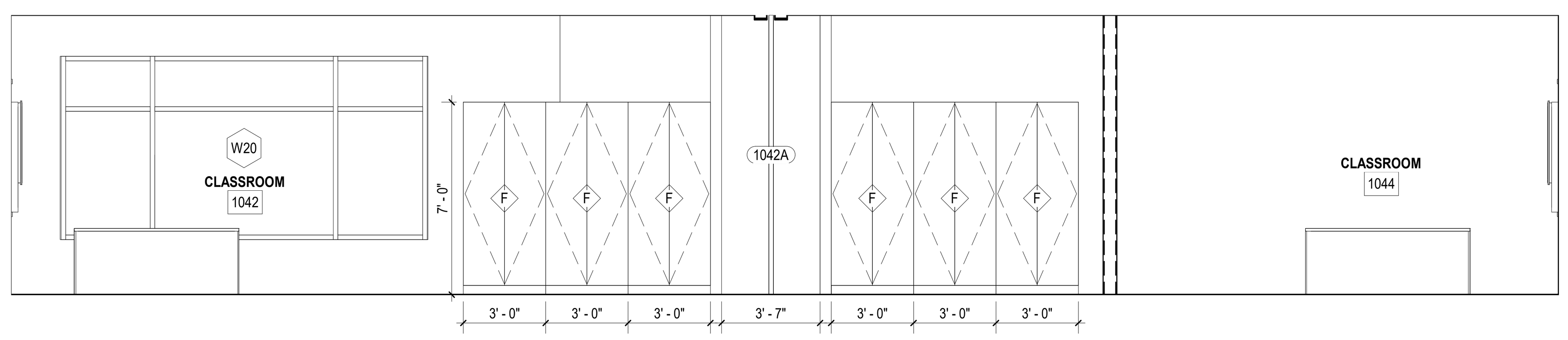
C3 / A701 — **1200 LEVEL - WORKROOM 1214 - WEST**
1/4" = 1'-0"



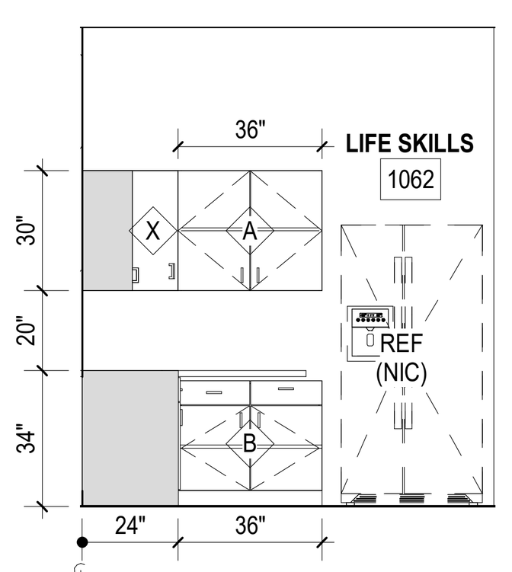
C4 / A701 — **1200 LEVEL - WORKROOM 1226 - EAST**
1/4" = 1'-0"



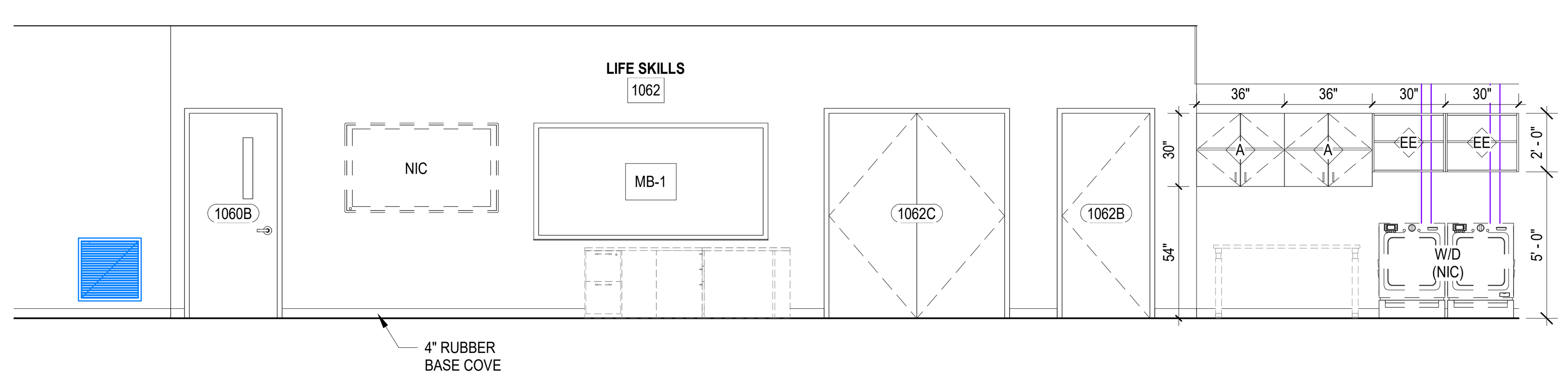
B1B / A701 — **1200 LEVEL - WORKROOM 1226 - WEST**
1/4" = 1'-0"



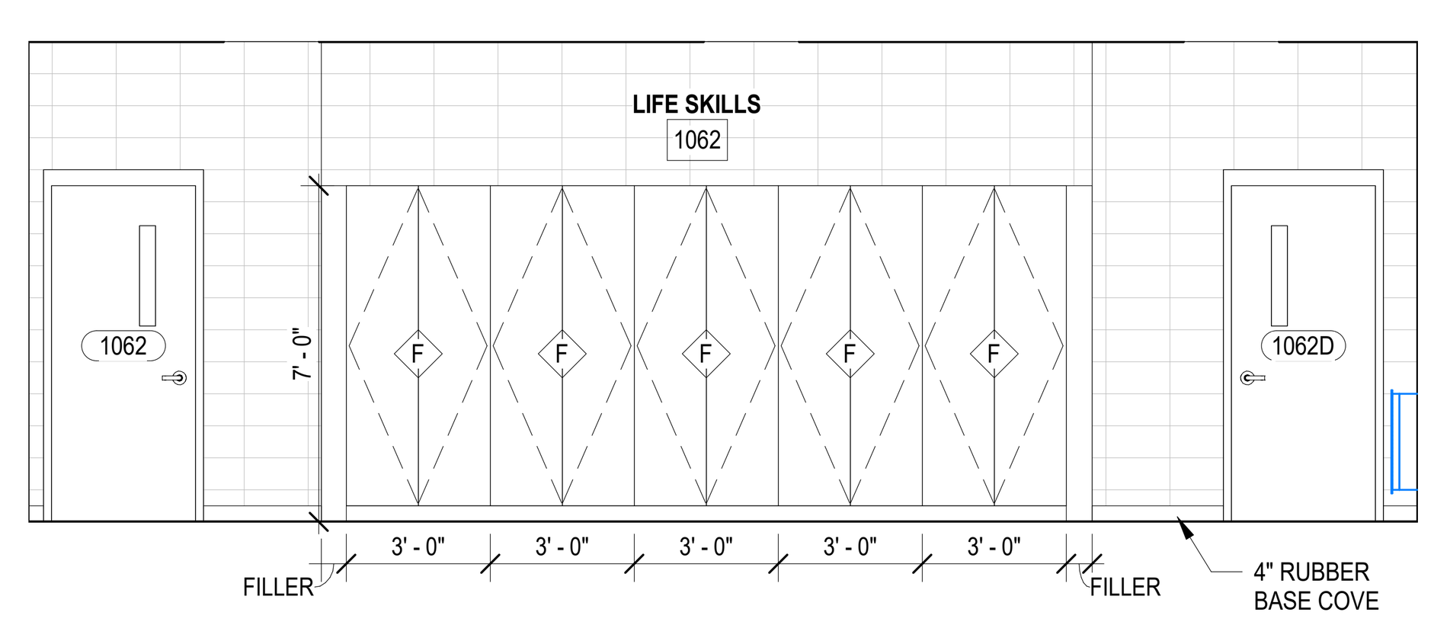
B2 / A701 — **1000 LEVEL - CLASSROOM 1042 & 1044 ELEVATION 2**
1/4" = 1'-0"



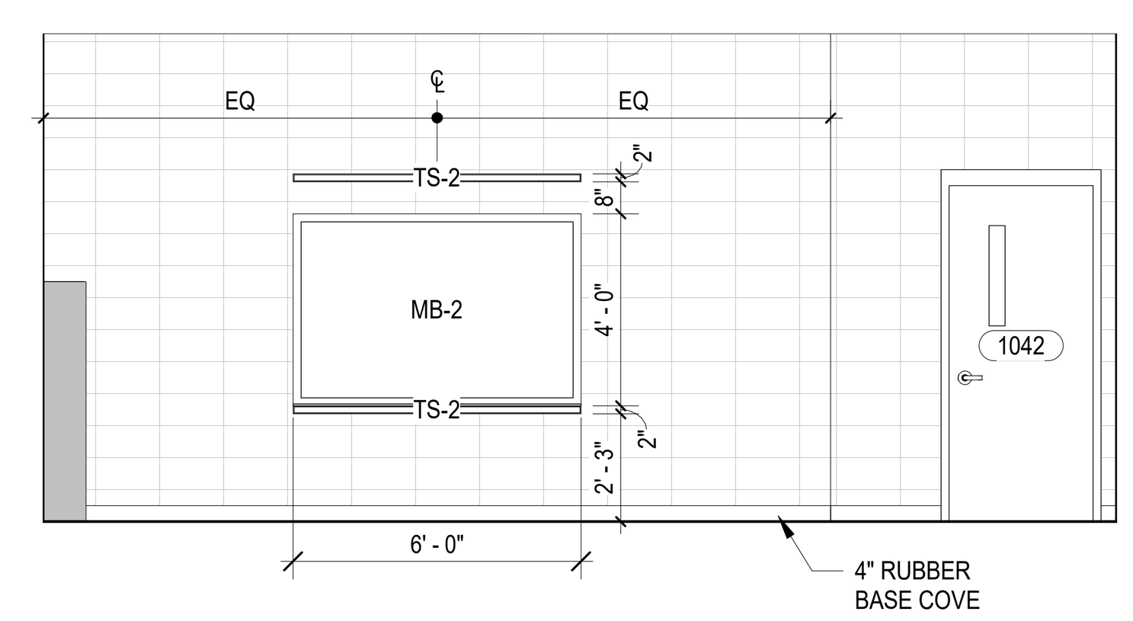
B4B / A701 — **1000 LEVEL - LIFE SKILLS 1062 - SOUTH A**
1/4" = 1'-0"



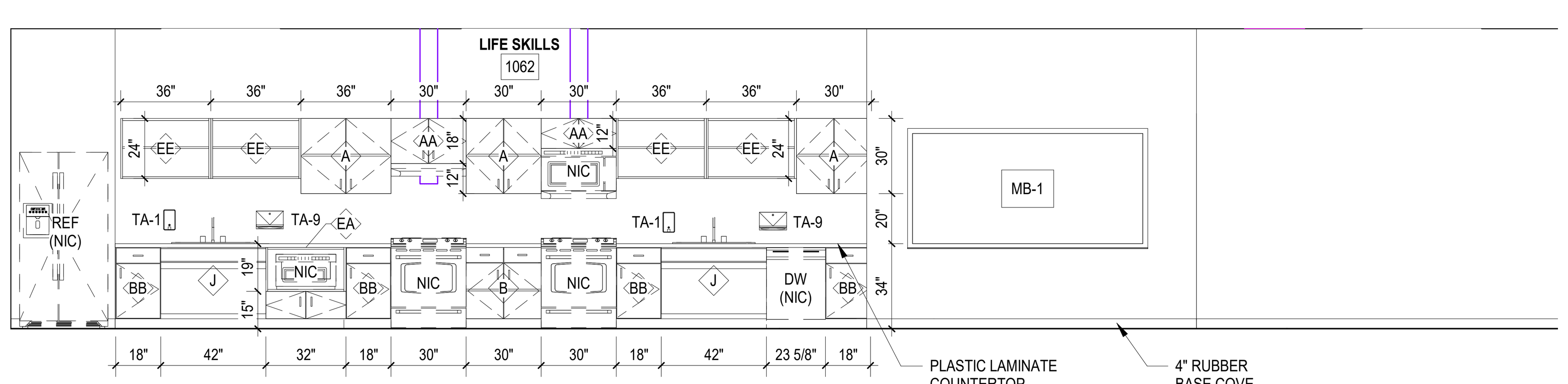
B1 / A701 — **1000 LEVEL - LIFE SKILLS 1062 - WEST**
1/4" = 1'-0"



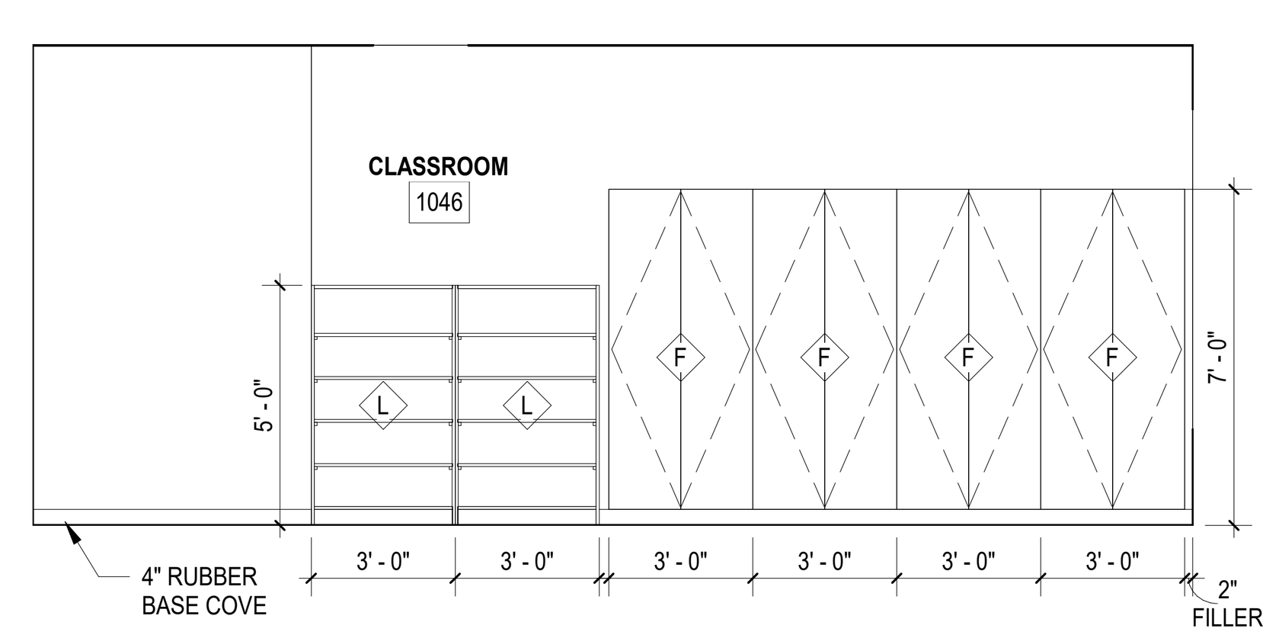
B3 / A701 — **1000 LEVEL - LIFE SKILLS 1062 - SOUTH B**
1/4" = 1'-0"



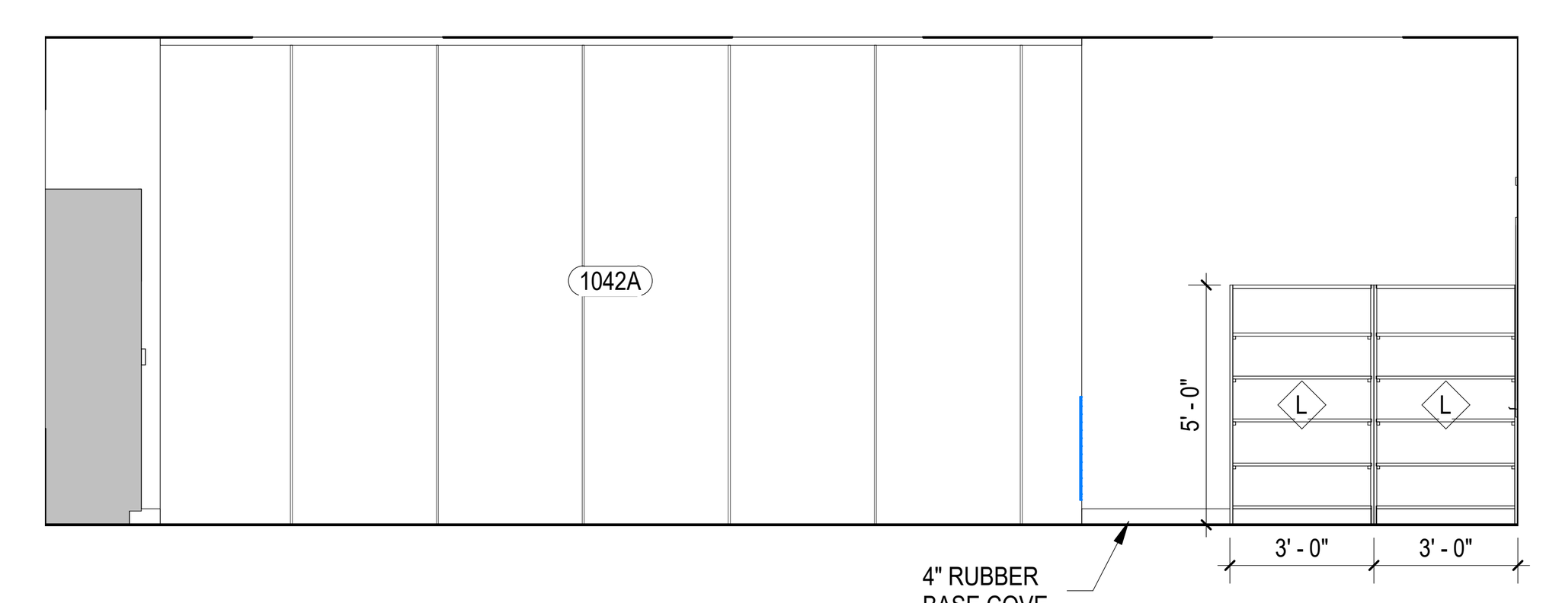
B4 / A701 — **1000 LEVEL - CLASSROOM 1042 SOUTH**
1/4" = 1'-0"



A1 / A701 — **1000 LEVEL - LIFE SKILLS 1062 - EAST**
1/4" = 1'-0"



A3 / A701 — **1000 LEVEL - CLASSROOM 1046 ELEVATION**
1/4" = 1'-0"



A4 / A701 — **1000 LEVEL - CLASSROOM 1042 & 1044 ELEVATION 1**
1/4" = 1'-0"

CASEWORK LEGEND

A	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
AA	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOOR
AB	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
B	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
BB	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 1 DOOR, 1 DRAWER
C	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET W/ 4 DRAWERS. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
D	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x 36" HIGH BOOKSHELF W/ 2 ADJUSTABLE SHELVES
E	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EA	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EE	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET W/ ADJSUTABLE SHELF
F	36"W x 24"D x 84"H GENERAL STORAGE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS, WHERE NECESSARY) W/ TWO HINGED DOORS WITH LOCKS, FIXED VERTICAL DIVIDER, FIVE ADJUSTABLE SHELVES EACH SIDE. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
FF	36"W x 24"D x 84"H TEACHER'S WARDROBE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS AS REQUIRED) W/ TWO HINGED DOORS W/ LOCK, FIXED VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES, TWO FIXED SHELVES, CLOSET ROD, ONE LEGAL SIZE FILE DRAWER, MIRROR, PIN TRAY.
G	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x 33" H. SINK CABINET, TWO HINGED DOORS AND REMOVABLE SPLIT BACK. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
H	72" TALL x 24" DEEP x 36" WIDE METAL SHELVING SYSTEM
J	(WIDTH SHOWN ON ELEVATIONS) x 23"D x (HEIGHT SHOWN ON ELEVATIONS) SLOPED ADA SINK CABINET W/ REMOVABLE FRONT PANEL.
K	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x (HEIGHT SHOWN ON ELEVATION) BASE CABINET, TWO HINGED DOORS
L	(WIDTH SHOWN ON ELEVATIONS) x 12" D x (HEIGHT SHOWN ON ELEVATIONS) BOOK CASE W/ ONE, TWO OR FOUR ADJUSTABLE SHELVES (DEPENDS ON HEIGHT) BACK AND PLASTIC LAMINATE TOP INCLUDED.
M	(WIDTH SHOWN ON ELEVATIONS) x (DEPTH SHOWN ON PLAN) x (HEIGHT SHOWN ON ELEVATIONS) FILE CABINET W/ TWO LEGAL SIZE DRAWERS.
N	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP OPEN BASE CABINET W/ ADJSUTABLE SHELF
O	18"W x 30"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
OO	18"W x 24"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
P	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF
Q	(WIDTH SHOWN ON ELEVATIONS) x 20"D x (HEIGHT SHOWN ON ELEVATIONS) 12" CLEAR WIDTH MAIL CUBBIES
R	DOUBLE FACED DEMONSTRATION FUME HOOD. 60" x 84" x 30 1/2"D. INCLUDE ONE COLD WATER GOOSENECK FAUCET, ONE DOUBLE GAS COCK, TWO DUPLEX (GRCI) RECEPTACLES, ONE VAPOR TIGHT INCANDESCENT LAMP AND SWITCH, ONE EPOXY RESIN SINK, 12" x 8" x 6"D. WITH 1" THICK EPOXY RESIN TOP. SIDES ARE SOLID FOR INSTALLATION BETWEEN ROOMS. EXHAUST BY HVAC CONTRACTOR. COLLEGEDALE PD-99816V ON DHBB-9F60 (DOUBLE FACED BASE CABINET). ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
S	44" TALL x 43" WIDE x 18" DEEP ACID CABINET W/ 1 ADJUSTABLE SHELF
T	12" DEEP LOCKABLE GLASS DOOR WALL CABINET W/ ADJUSTABLE SHELVES
V	24" WIDE WALL CABINET W/ SAFETY GLASSES STORAGE
W	12" DEEP WALL CABINET - FIRST AID
X	CORNER WALL CABINET
XX	BASE CORNER CABINET
ZZ	(WIDTH SHOWN ON PLANS) x (DEPTH SHOWN ON PLANS) x 84"H SHELVING UNIT W/ SIX ADJUSTABLE SOLID PINE SHELVES W/ METAL EDGES

MARKER BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
MB-1	8'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	70
MB-2	6'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	31

NOTE:
1. ALL BOTTOM OF MARKER BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF MARKER BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

TACK STRIP LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TS-1	8'-0" LONG TACK STRIP	100
TS-2	6'-0" LONG TACK STRIP	34

TACK BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TB-1	6'-0"W X 4'-0"H TACK BOARD	7

NOTE:
1. ALL BOTTOM OF TACK BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF TACK BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

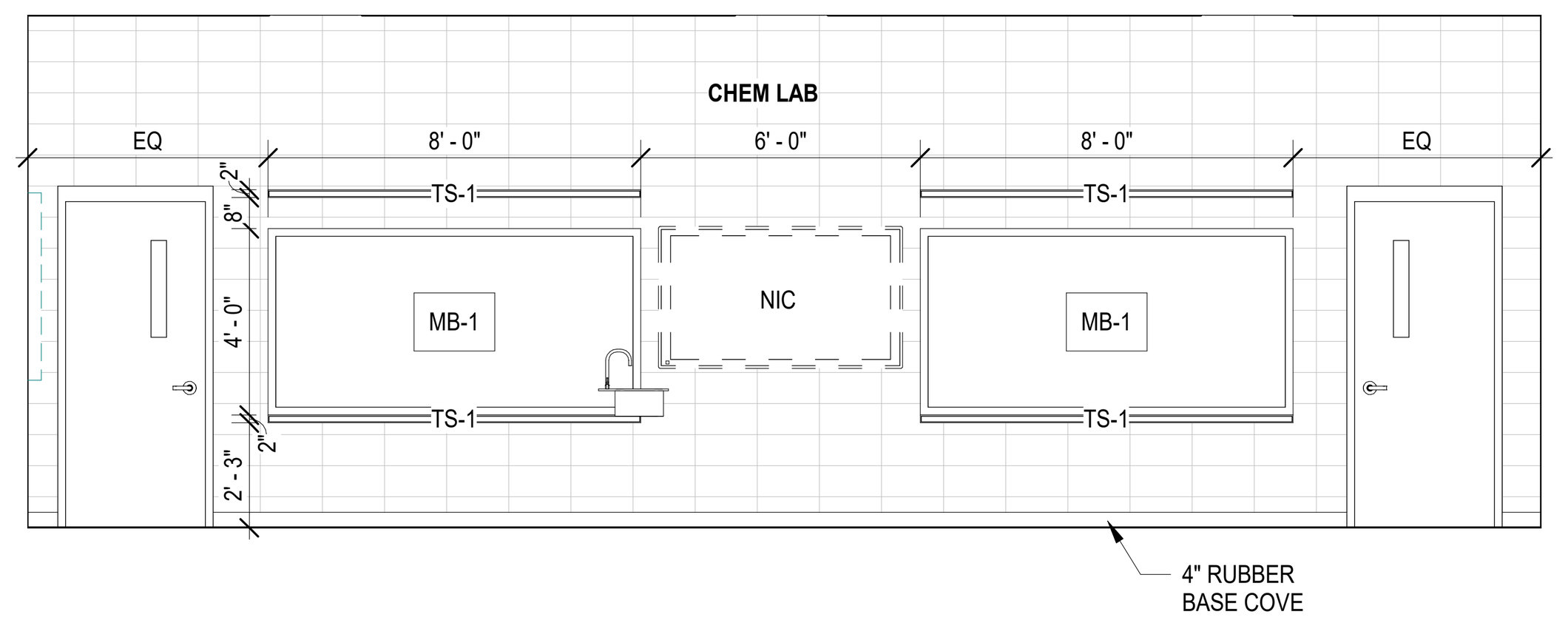
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

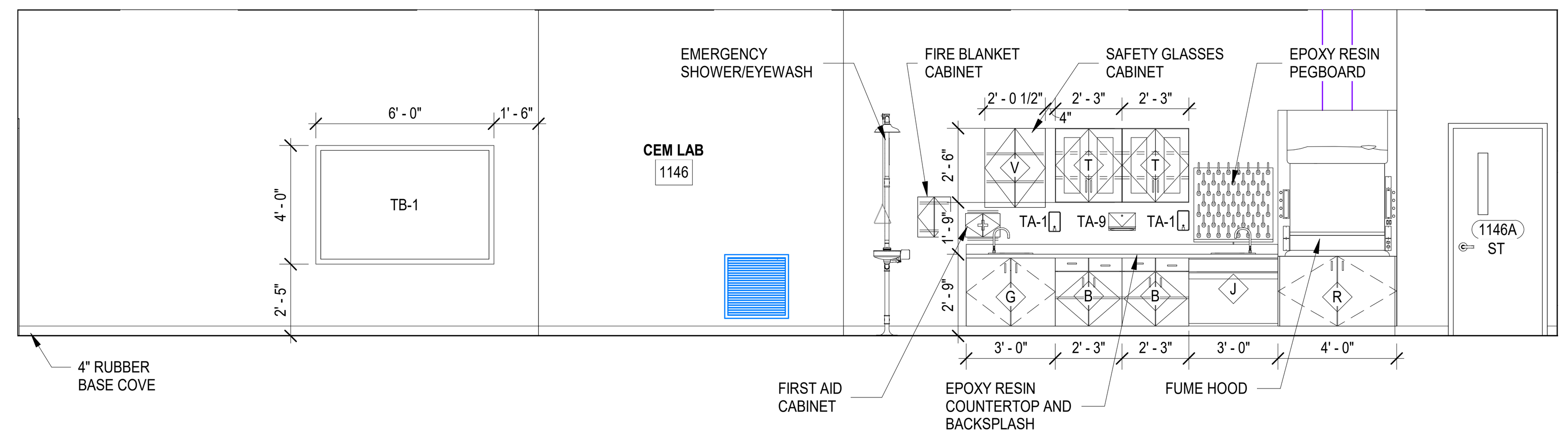
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: SEA

SHEET TITLE:
INTERIOR ELEVATIONS

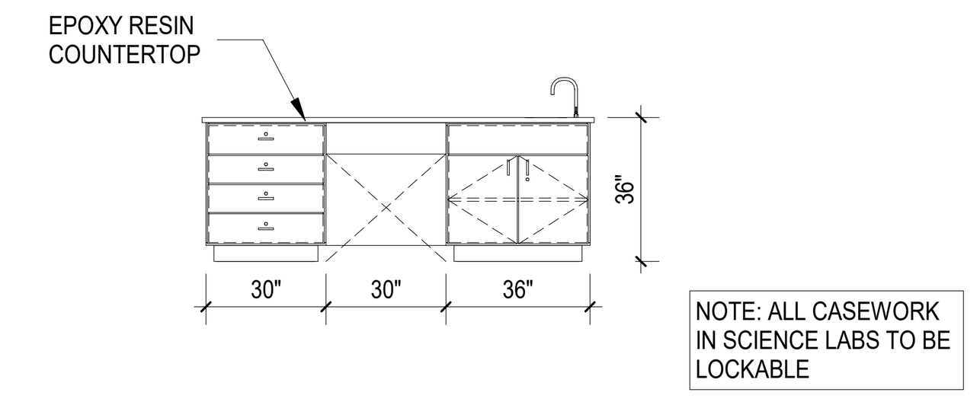
SHEET NO. A701
PROJ. NO. 020420.00



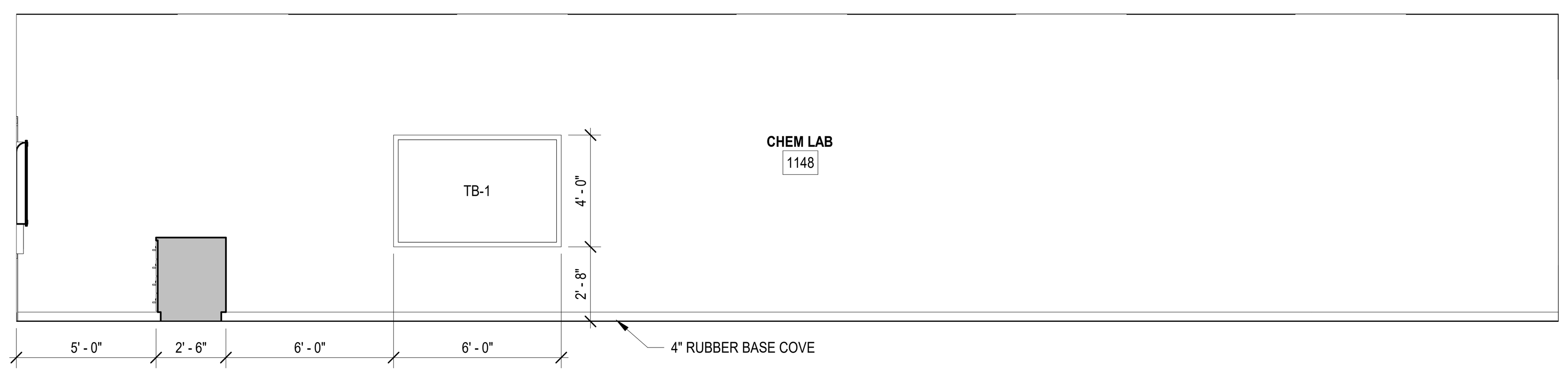
D1 A702 **CHEM LAB TEACHING WALL - TYPICAL ELEVATION**
1/4" = 1'-0"



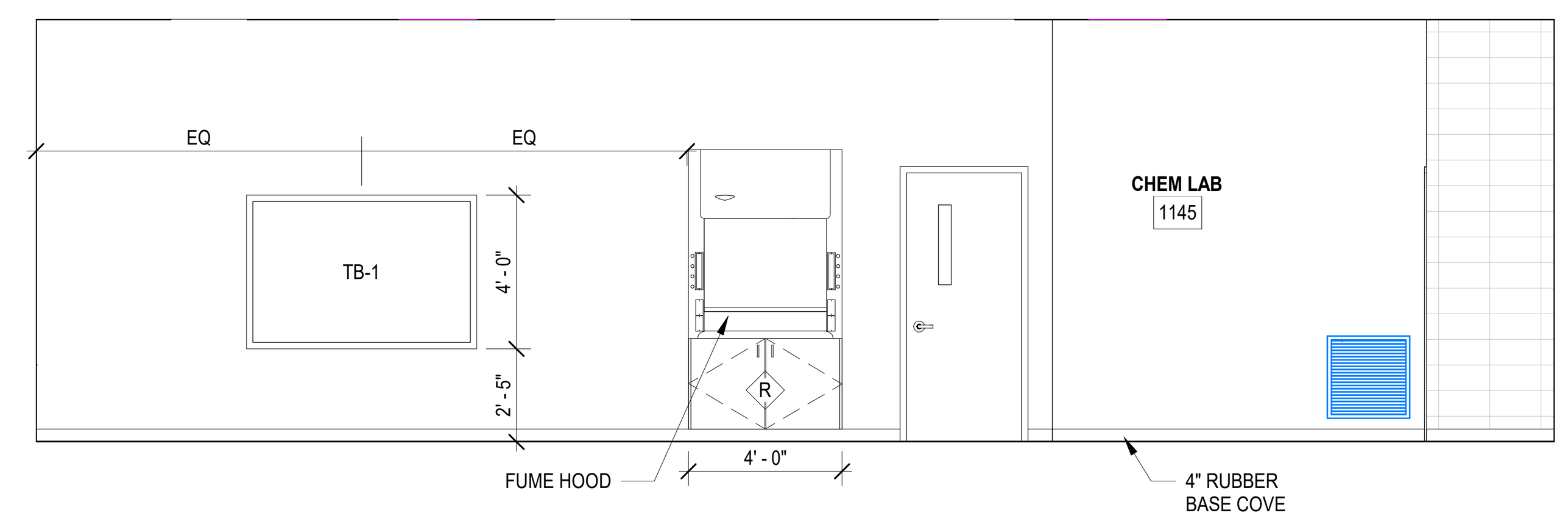
D3 A702 **1100 LEVEL - CHEM LAB 1146 ELEVATION - WEST**
1/4" = 1'-0"



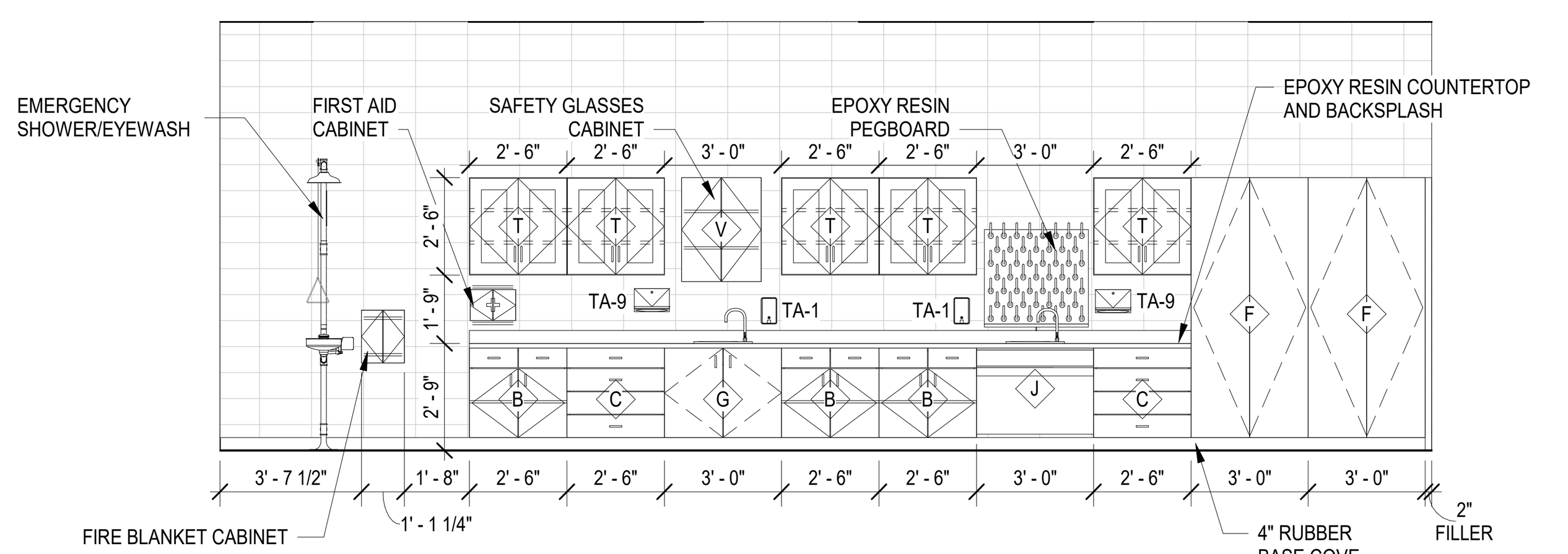
D4 A702 **TEACHER DEMO STATION TYP ELEVATION**
1/4" = 1'-0"



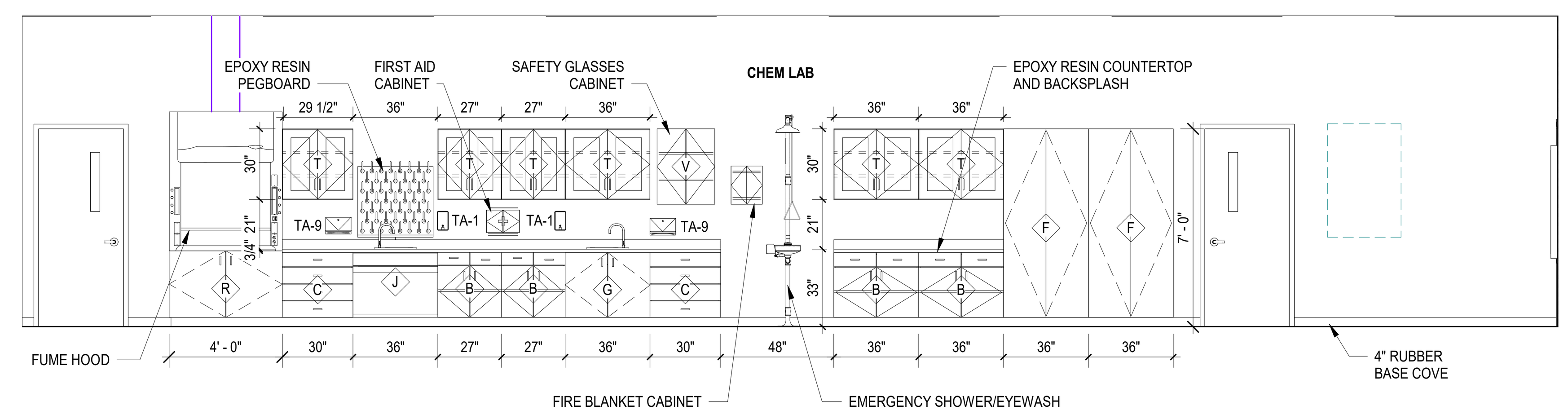
C1 A702 **CHEM LAB - TYPICAL ELEVATION 5**
1/4" = 1'-0"



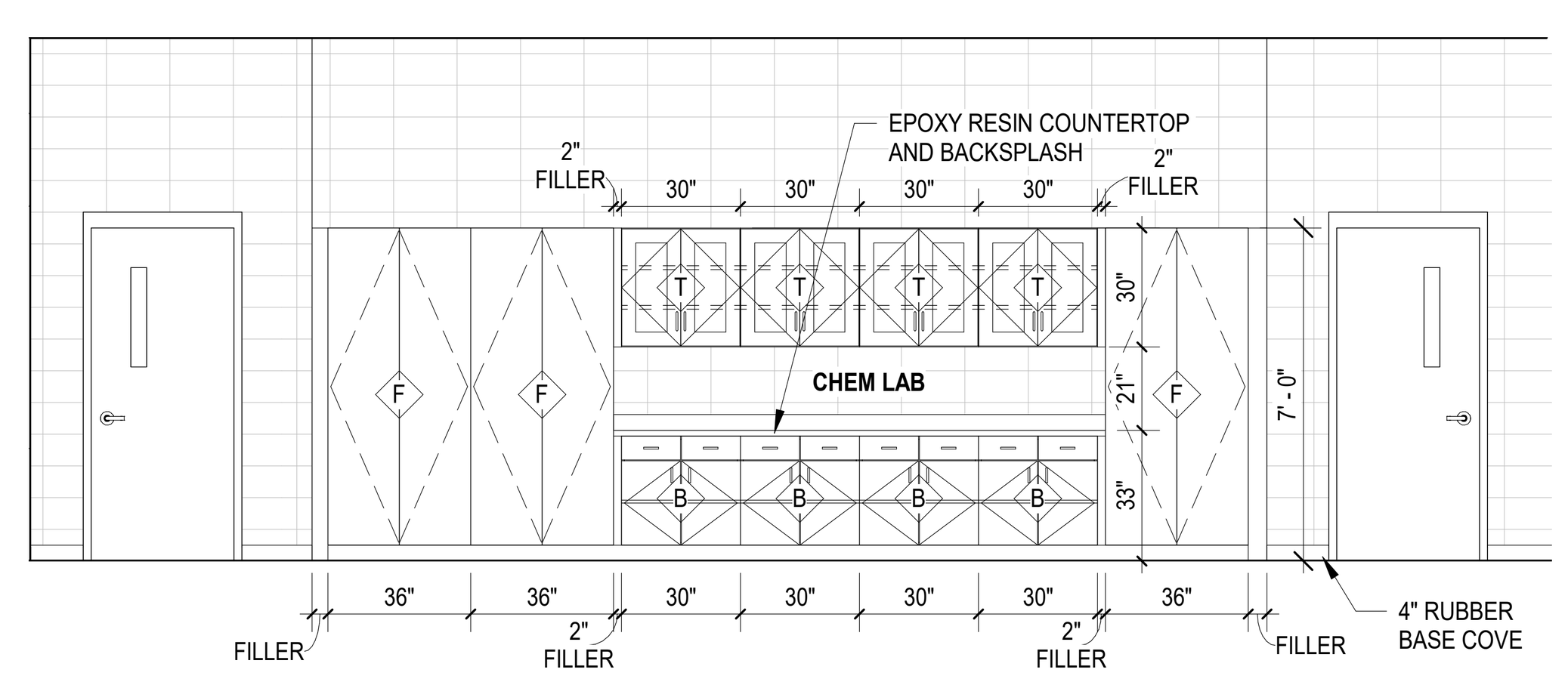
C3 A702 **CHEM LAB TYPICAL ELEVATION 6**
1/4" = 1'-0"



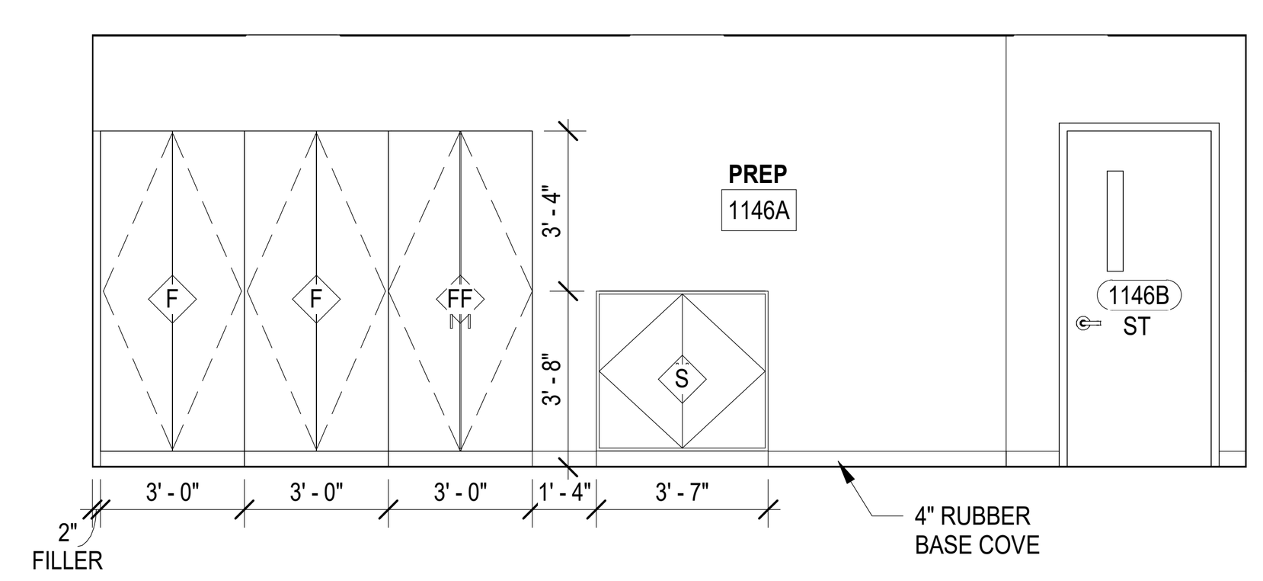
B1 A702 **CHEM LAB - TYPICAL ELEVATION 3**
1/4" = 1'-0"



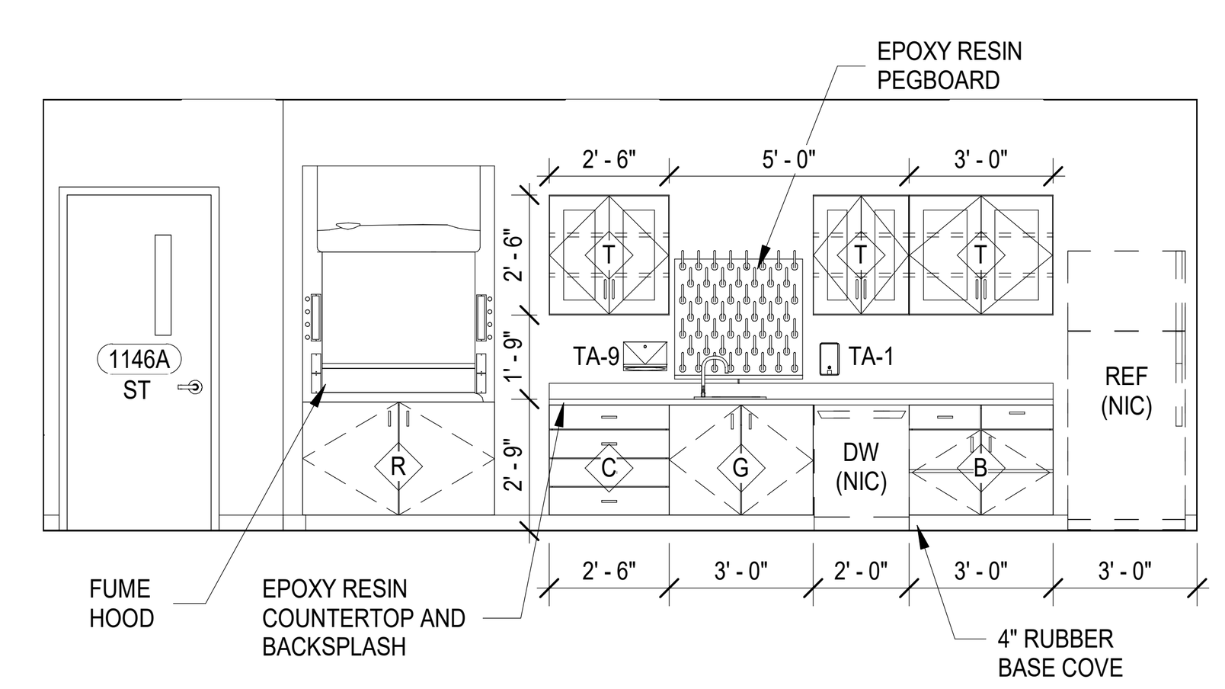
B3 A702 **CHEM LAB - TYPICAL ELEVATION 4**
1/4" = 1'-0"



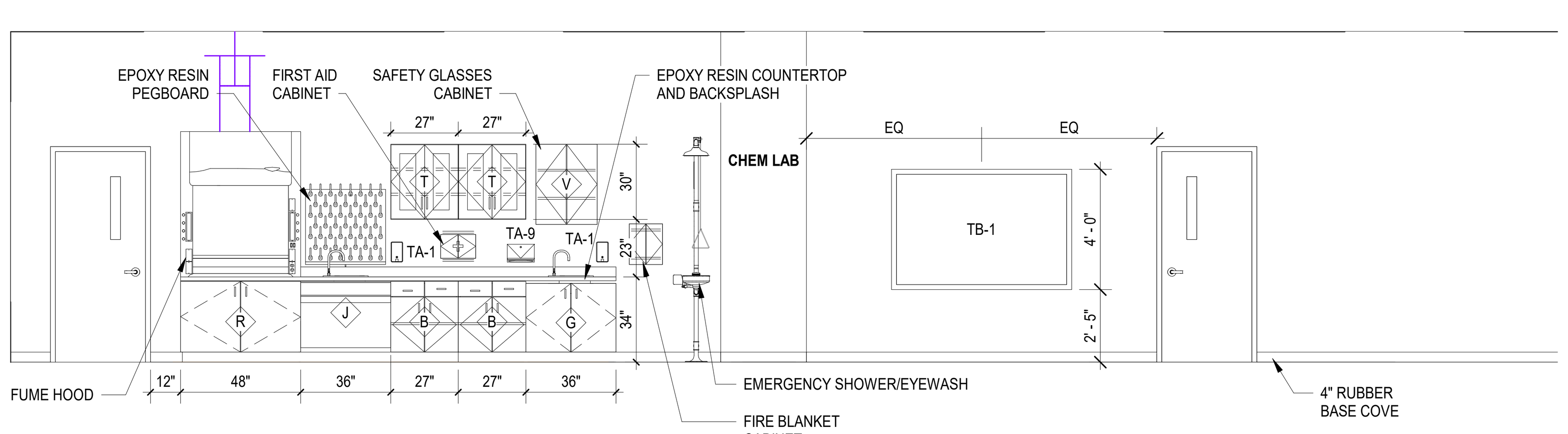
A1B A702 **CHEM LAB - TYPICAL ELEVATION 2**
1/4" = 1'-0"



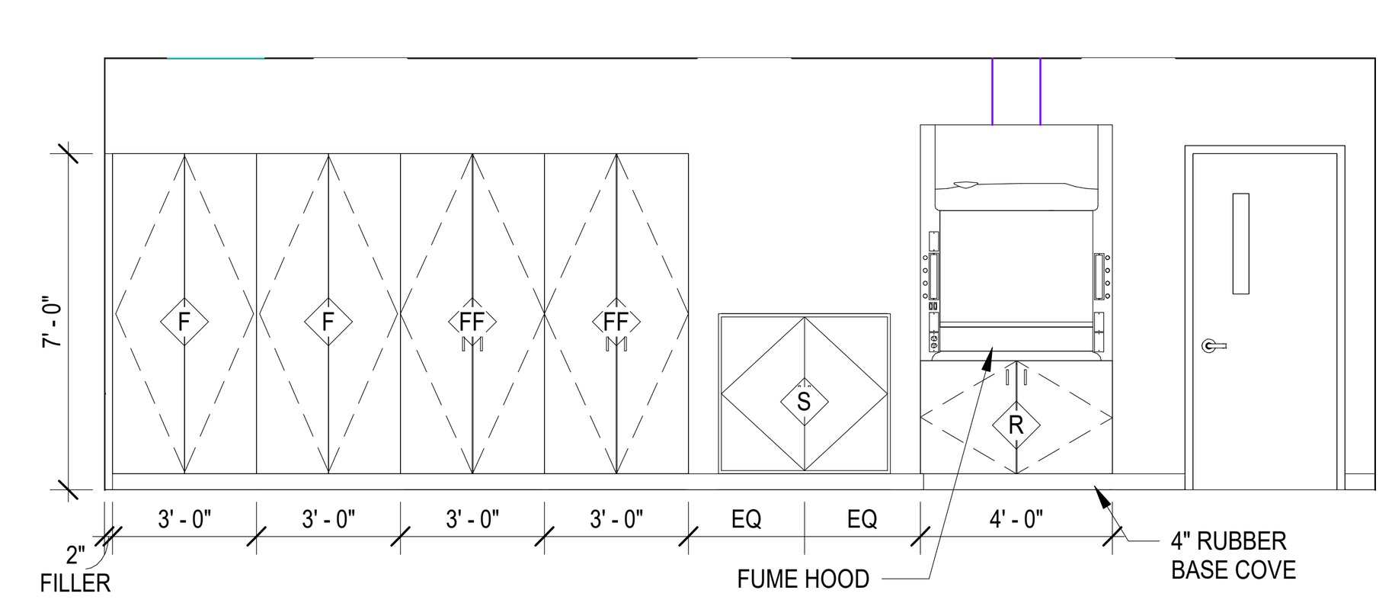
A3B A702 **PREP 1146A - ELEVATION - WEST**
1/4" = 1'-0"



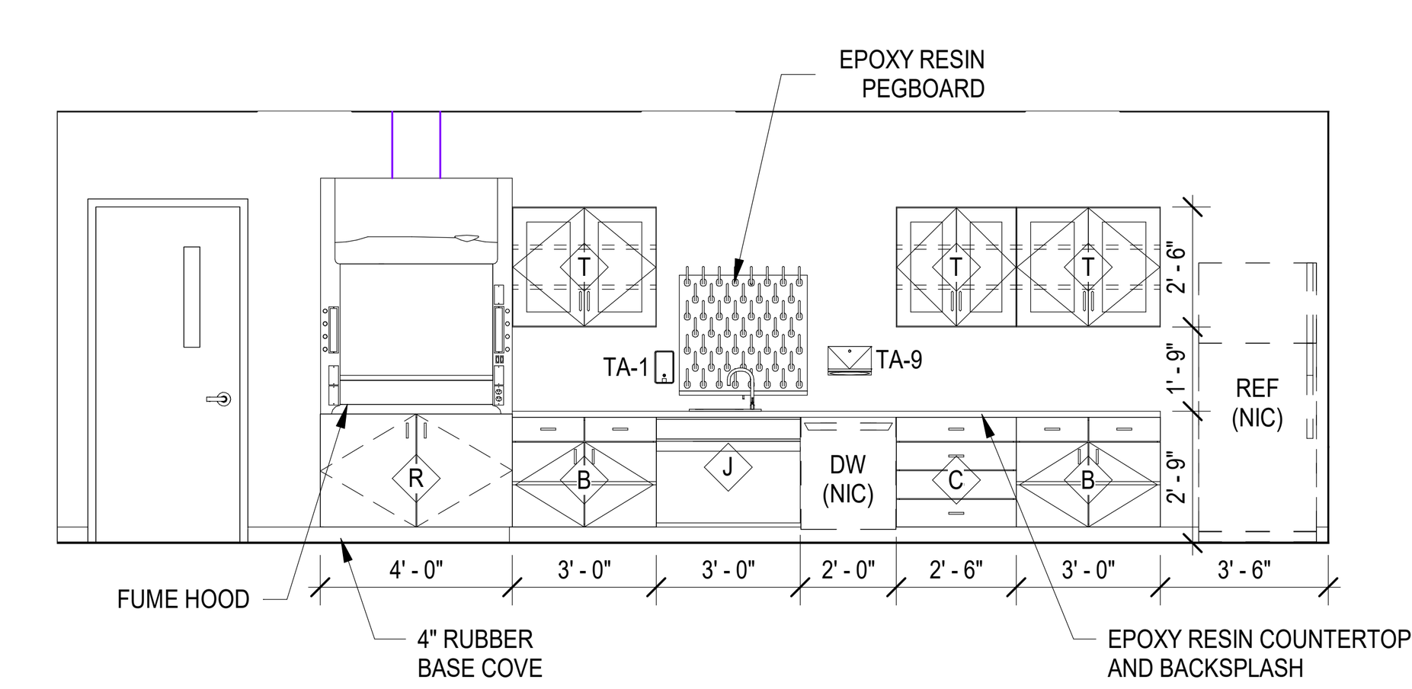
A4B A702 **PREP 1146A - ELEVATION - EAST**
1/4" = 1'-0"



A1 A702 **CHEM LAB - TYPICAL ELEVATION 1**
1/4" = 1'-0"



A3 A702 **CHEM PREP A - TYPICAL ELEVATION 1**
1/4" = 1'-0"



A4 A702 **CHEM PREP A - TYPICAL ELEVATION 2**
1/4" = 1'-0"

CASEWORK LEGEND

A	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
AA	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOOR
AB	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
B	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
BB	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 1 DOOR, 1 DRAWER
C	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET W/ 4 DRAWERS. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
D	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x 36" HIGH BOOKSHELF W/ 2 ADJUSTABLE SHELVES
E	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EA	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EE	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET W/ ADJSUTABLE SHELF
F	36"W x 24"D x 84"H GENERAL STORAGE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS, WHERE NECESSARY) W/ TWO HINGED DOORS WITH LOCKS, FIXED VERTICAL DIVIDER, FIVE ADJUSTABLE SHELVES EACH SIDE. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
FF	36"W x 24"D x 84"H TEACHER'S WARDROBE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS AS REQUIRED) W/ TWO HINGED DOORS W/ LOCK, FIXED VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES, TWO FIXED SHELVES, CLOSET ROD, ONE LEGAL SIZE FILE DRAWER, MIRROR, PIN TRAY.
G	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x 33" H. SINK CABINET, TWO HINGED DOORS AND REMOVABLE SPLIT BACK. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
H	72" TALL x 24" DEEP x 36" WIDE METAL SHELVING SYSTEM
J	(WIDTH SHOWN ON ELEVATIONS) x 23"D x (HEIGHT SHOWN ON ELEVATIONS) SLOPED ADA SINK CABINET W/ REMOVABLE FRONT PANEL.
K	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x (HEIGHT SHOWN ON ELEVATION) BASE CABINET, TWO HINGED DOORS
L	(WIDTH SHOWN ON ELEVATIONS) x 12" D x (HEIGHT SHOWN ON ELEVATIONS) BOOK CASE W/ ONE, TWO OR FOUR ADJUSTABLE SHELVES (DEPENDS ON HEIGHT) BACK AND PLASTIC LAMINATE TOP INCLUDED.
M	(WIDTH SHOWN ON ELEVATIONS) x (DEPTH SHOWN ON PLAN) x (HEIGHT SHOWN ON ELEVATIONS) FILE CABINET W/ TWO LEGAL SIZE DRAWERS.
N	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP OPEN BASE CABINET W/ ADJSUTABLE SHELF
O	18"W x 30"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
OO	18"W x 24"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
P	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF
Q	(WIDTH SHOWN ON ELEVATIONS) x 20"D x (HEIGHT SHOWN ON ELEVATIONS) 12" CLEAR WIDTH MAIL CUBBIES
R	DOUBLE FACED DEMONSTRATION FUME HOOD. 60" x 84" x 30 1/2"D. INCLUDE ONE COLD WATER GOOSENECK FAUCET, ONE DOUBLE GAS COCK, TWO DUPLEX (GRCI) RECEPTACLES, ONE VAPOR TIGHT INCANDESCENT LAMP AND SWITCH, ONE EPOXY RESIN SINK, 12" x 8" x 6"D. WITH 1" THICK EPOXY RESIN TOP. SIDES ARE SOLID FOR INSTALLATION BETWEEN ROOMS. EXHAUST BY HVAC CONTRACTOR. COLLEGEDALE PD-99816V ON DHBB-9F60 (DOUBLE FACED BASE CABINET). ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
S	44" TALL x 43" WIDE x 18" DEEP ACID CABINET W/ 1 ADJUSTABLE SHELF
T	12" DEEP LOCKABLE GLASS DOOR WALL CABINET W/ ADJUSTABLE SHELVES
V	24" WIDE WALL CABINET W/ SAFETY GLASSES STORAGE
W	12" DEEP WALL CABINET - FIRST AID
X	CORNER WALL CABINET
XX	BASE CORNER CABINET
ZZ	(WIDTH SHOWN ON PLANS) x (DEPTH SHOWN ON PLANS) x 84"H SHELVING UNIT W/ SIX ADJUSTABLE SOLID PINE SHELVES W/ METAL EDGES

MARKER BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
MB-1	8'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	70
MB-2	6'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	31

NOTE:
1. ALL BOTTOM OF MARKER BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF MARKER BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

TACK STRIP LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TS-1	8'-0" LONG TACK STRIP	100
TS-2	6'-0" LONG TACK STRIP	34

TACK BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TB-1	6'-0"W X 4'-0"H TACK BOARD	7

NOTE:
1. ALL BOTTOM OF TACK BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF TACK BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

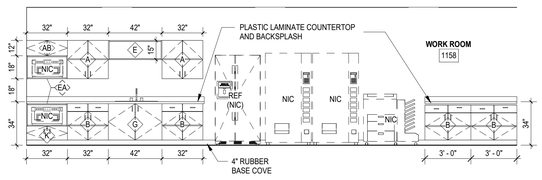
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: SEA

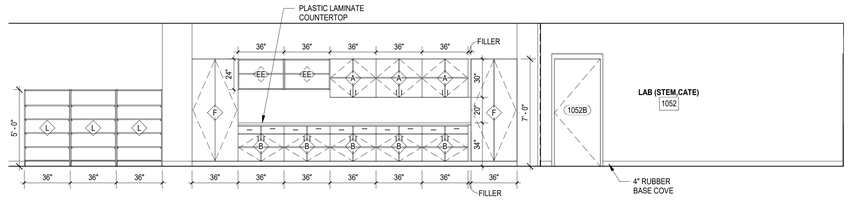
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. PROJ. NO. 020420.00

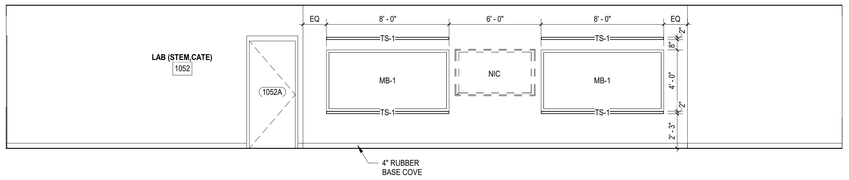
A702



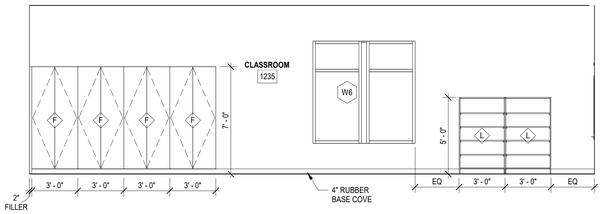
D1 **1100 LEVEL - WORKROOM 1158 - SOUTH**
A703 1/4" = 1'-0"



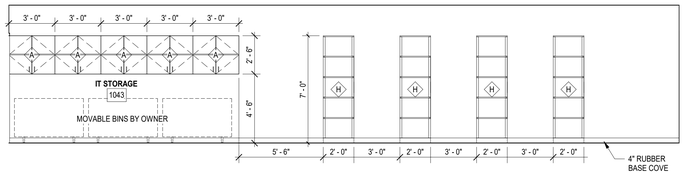
D3 **1000 LEVEL - LAB 1052 - EAST**
A703 1/4" = 1'-0"



C1 **1000 LEVEL - LAB 1052 - WEST**
A703 1/4" = 1'-0"

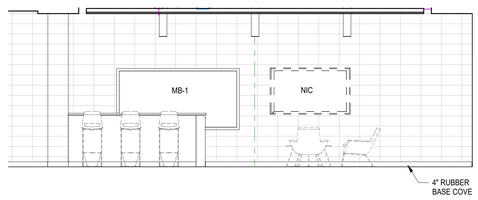


C3 **CLASSROOM 1235 ELEVATION - WEST**
A703 1/4" = 1'-0"

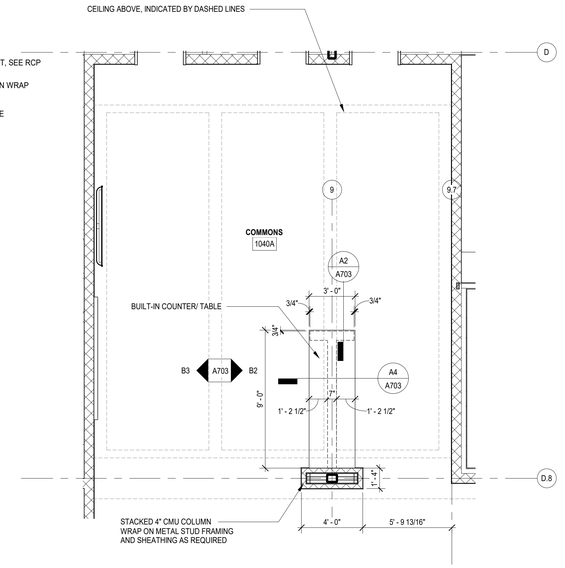


B1 **1000 LEVEL - IT STORAGE 1043 - SOUTH**
A703 1/4" = 1'-0"

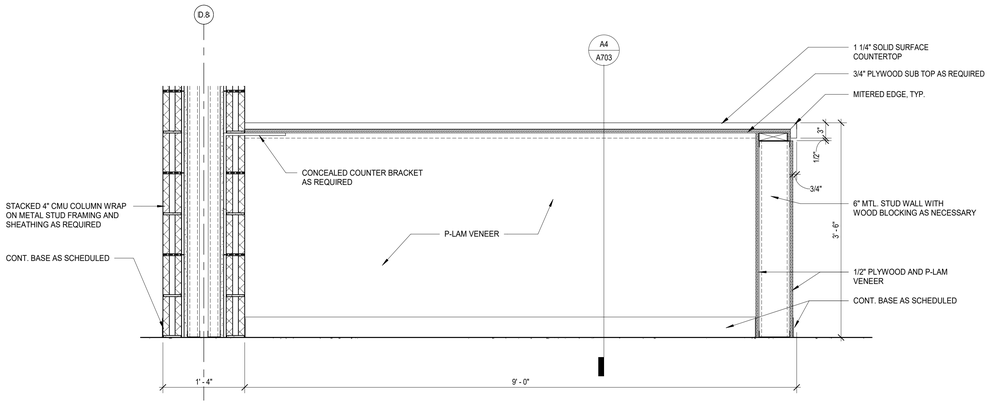
B2 **COMMONS - ELEVATION EAST**
A703 1/4" = 1'-0"



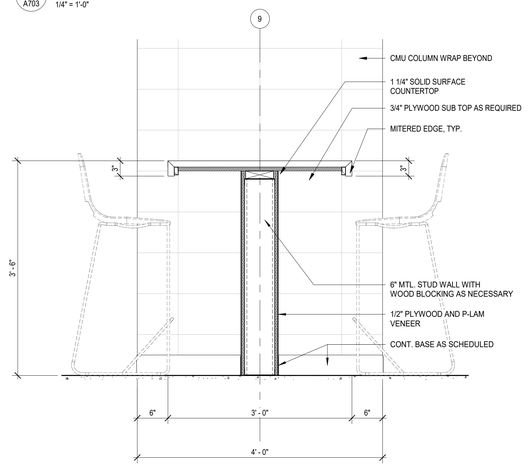
B3 **COMMONS - ELEVATION WEST**
A703 1/4" = 1'-0"



B4 **ENLARGED PLAN - COMMONS BUILT-IN TABLE**
A703 1/4" = 1'-0"



A2 **COMMONS - COUNTER SECTION**
A703 1" = 1'-0"



A4 **COMMONS - COUNTER SECTION**
A703 1" = 1'-0"

CASEWORK LEGEND

A	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
AA	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOOR
AB	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
B	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
BB	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 1 DOOR, 1 DRAWER
C	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET W/ 4 DRAWERS. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
D	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x 36" HIGH BOOKSHELF W/ 2 ADJUSTABLE SHELVES
E	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EA	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EE	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET W/ ADJUSTABLE SHELF
F	36"W x 24"D x 84"H GENERAL STORAGE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS, WHERE NECESSARY) W/ TWO HINGED DOORS WITH LOCKS, FIXED VERTICAL DIVIDER, FIVE ADJUSTABLE SHELVES EACH SIDE. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
FF	36"W x 24"D x 84"H TEACHER'S WARDROBE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS AS REQUIRED) W/ TWO HINGED DOORS W/ LOCK, FIXED VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES, TWO FIXED SHELVES, CLOSET ROD, ONE LEGAL SIZE FILE DRAWER, MIRROR, PIN TRAY.
G	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x 33" H. SINK CABINET, TWO HINGED DOORS AND REMOVABLE SPLIT BACK. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
H	72" TALL x 24" DEEP x 36" WIDE METAL SHELVING SYSTEM
J	(WIDTH SHOWN ON ELEVATIONS) x 23"D x (HEIGHT SHOWN ON ELEVATIONS) SLOPED ADA SINK CABINET W/ REMOVABLE FRONT PANEL.
K	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x (HEIGHT SHOWN ON ELEVATION) BASE CABINET, TWO HINGED DOORS
L	(WIDTH SHOWN ON ELEVATIONS) x 12" D x (HEIGHT SHOWN ON ELEVATIONS) BOOK CASE W/ ONE, TWO OR FOUR ADJUSTABLE SHELVES (DEPENDS ON HEIGHT) BACK AND PLASTIC LAMINATE TOP INCLUDED.
M	(WIDTH SHOWN ON ELEVATIONS) x (DEPTH SHOWN ON PLAN) x (HEIGHT SHOWN ON ELEVATIONS) FILE CABINET W/ TWO LEGAL SIZE DRAWERS.
N	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP OPEN BASE CABINET W/ ADJUSTABLE SHELF
O	18"W x 30"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
OO	18"W x 24"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
P	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF
Q	(WIDTH SHOWN ON ELEVATIONS) x 20"D x (HEIGHT SHOWN ON ELEVATIONS) 12" CLEAR WIDTH MAIL CUBBIES
R	DOUBLE FACED DEMONSTRATION FUME HOOD. 60" x 84" x 30 1/2"D. INCLUDE ONE COLD WATER GOOSENECK FAUCET, ONE DOUBLE GAS COCK, TWO DUPLEX (GRCI) RECEPTACLES, ONE VAPOR TIGHT INCANDESCENT LAMP AND SWITCH, ONE EPOXY RESIN SINK, 12" x 8" x 6"D. WITH 1" THICK EPOXY RESIN TOP. SIDES ARE SOLID FOR INSTALLATION BETWEEN ROOMS. EXHAUST BY HVAC CONTRACTOR. COLLEGEDALE PD-99816V ON DHBB-9F60 (DOUBLE FACED BASE CABINET). ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
S	44" TALL x 43" WIDE x 18" DEEP ACID CABINET W/ 1 ADJUSTABLE SHELF
T	12" DEEP LOCKABLE GLASS DOOR WALL CABINET W/ ADJUSTABLE SHELVES
V	24" WIDE WALL CABINET W/ SAFETY GLASSES STORAGE
W	12" DEEP WALL CABINET - FIRST AID
X	CORNER WALL CABINET
XX	BASE CORNER CABINET
ZZ	(WIDTH SHOWN ON PLANS) x (DEPTH SHOWN ON PLANS) x 84"H SHELVING UNIT W/ SIX ADJUSTABLE SOLID PINE SHELVES W/ METAL EDGES

MARKER BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
MB-1	8'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	70
MB-2	6'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	31

NOTE:
1. ALL BOTTOM OF MARKER BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF MARKER BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

TACK STRIP LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TS-1	8'-0" LONG TACK STRIP	100
TS-2	6'-0" LONG TACK STRIP	34

TACK BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TB-1	6'-0"W X 4'-0"H TACK BOARD	7

NOTE:
1. ALL BOTTOM OF TACK BOARDS MOUNTED AT 2' - 5" AFF UNO.
2. ALL TOPS OF TACK BOARDS LOCATED IN CORRIDORS TO BE MOUNTED AT 7' - 4" AFF UNO.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

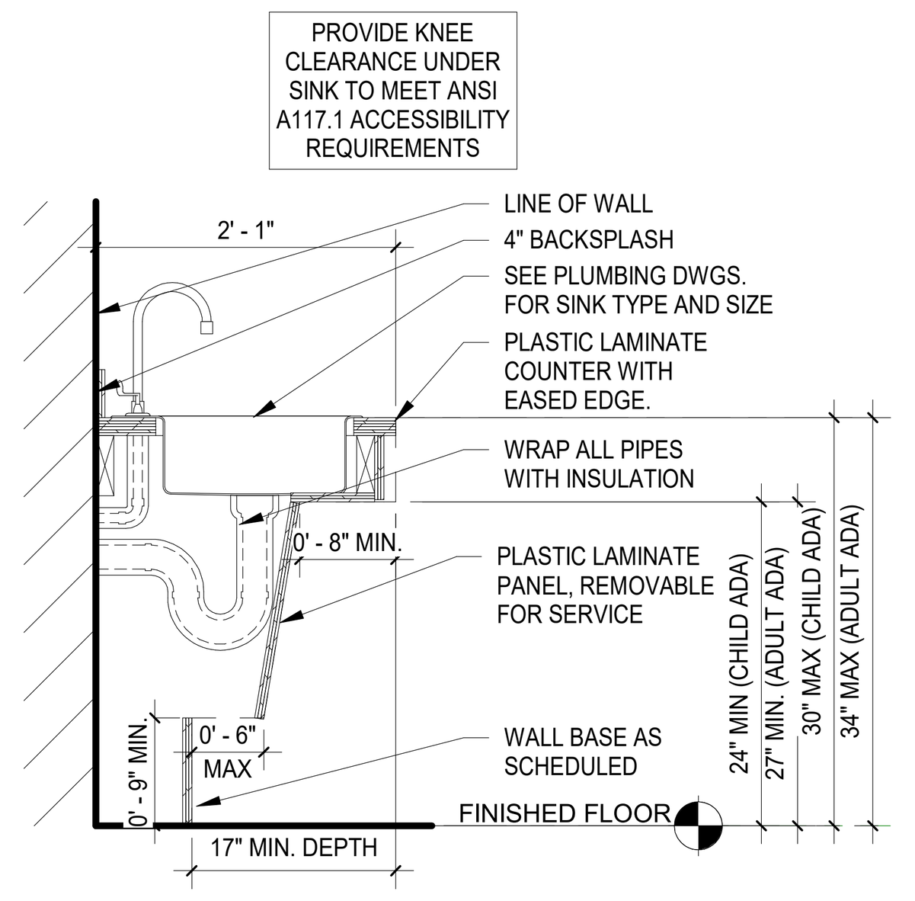
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: SEA

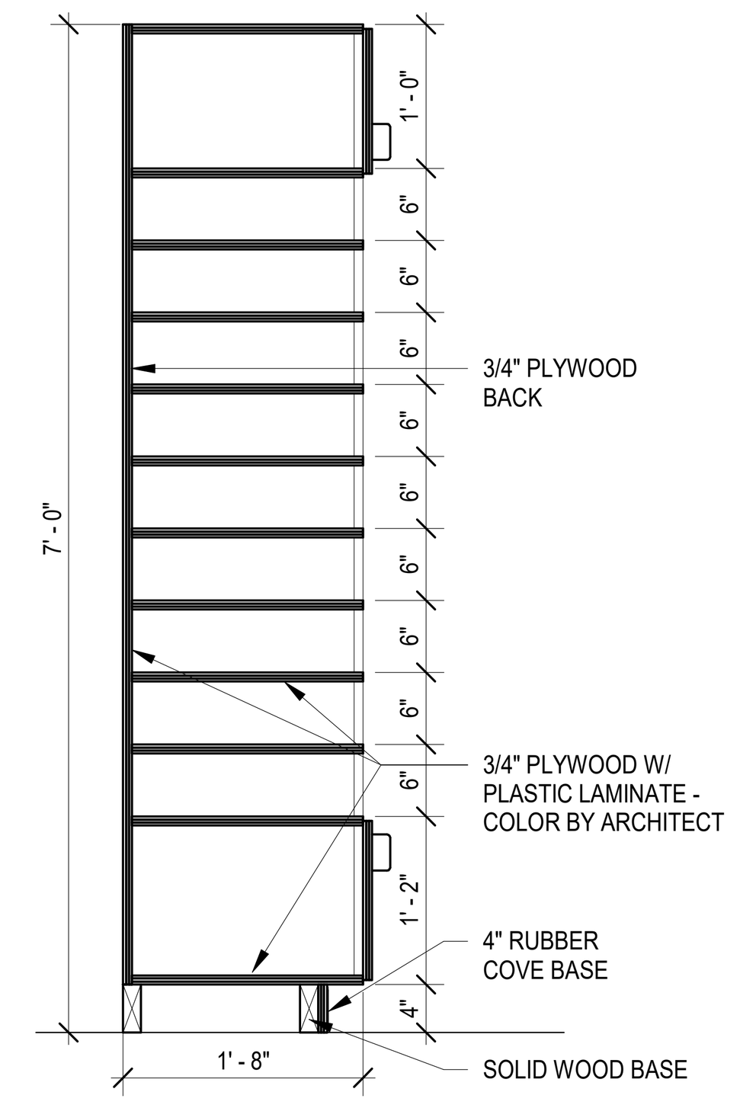
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. A703

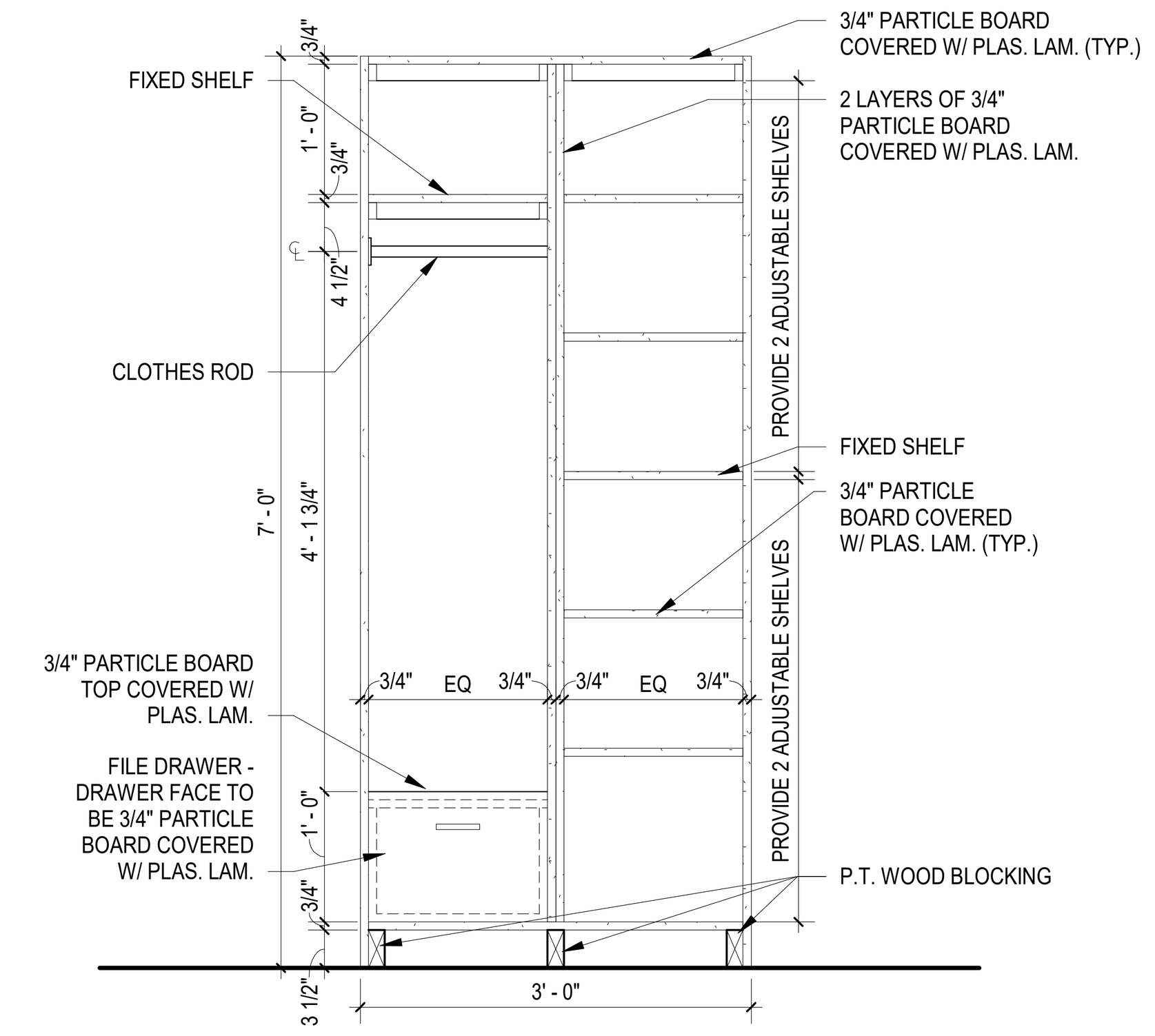
PROJ. NO. 020420.00



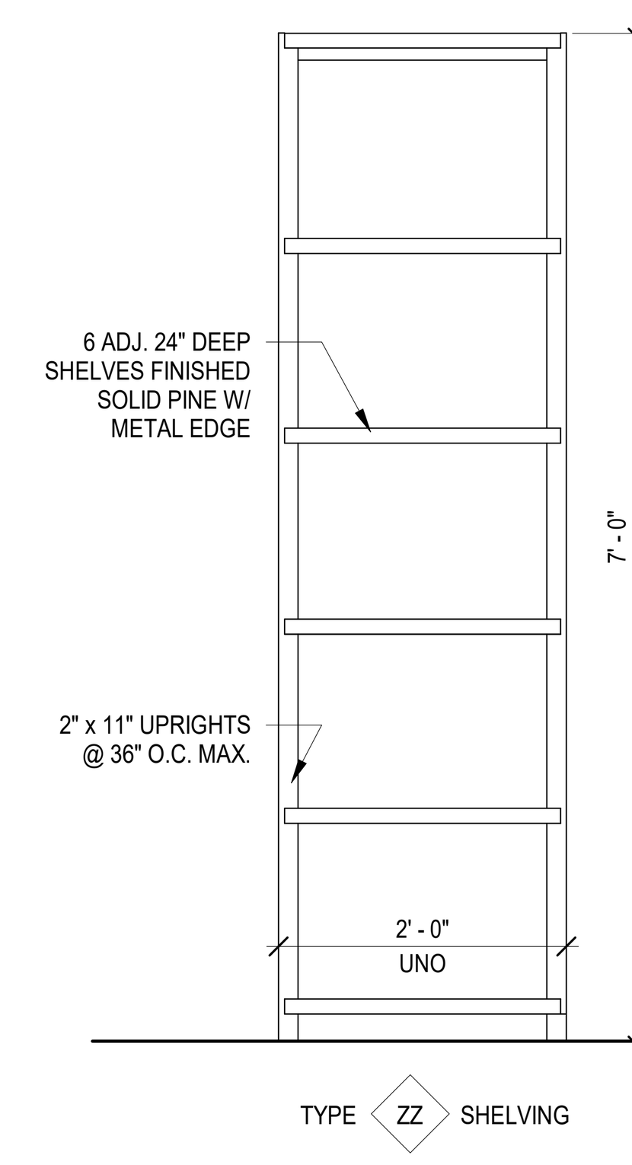
D1 A704 **SLOPED ADA CASEWORK**
3/4" = 1'-0"



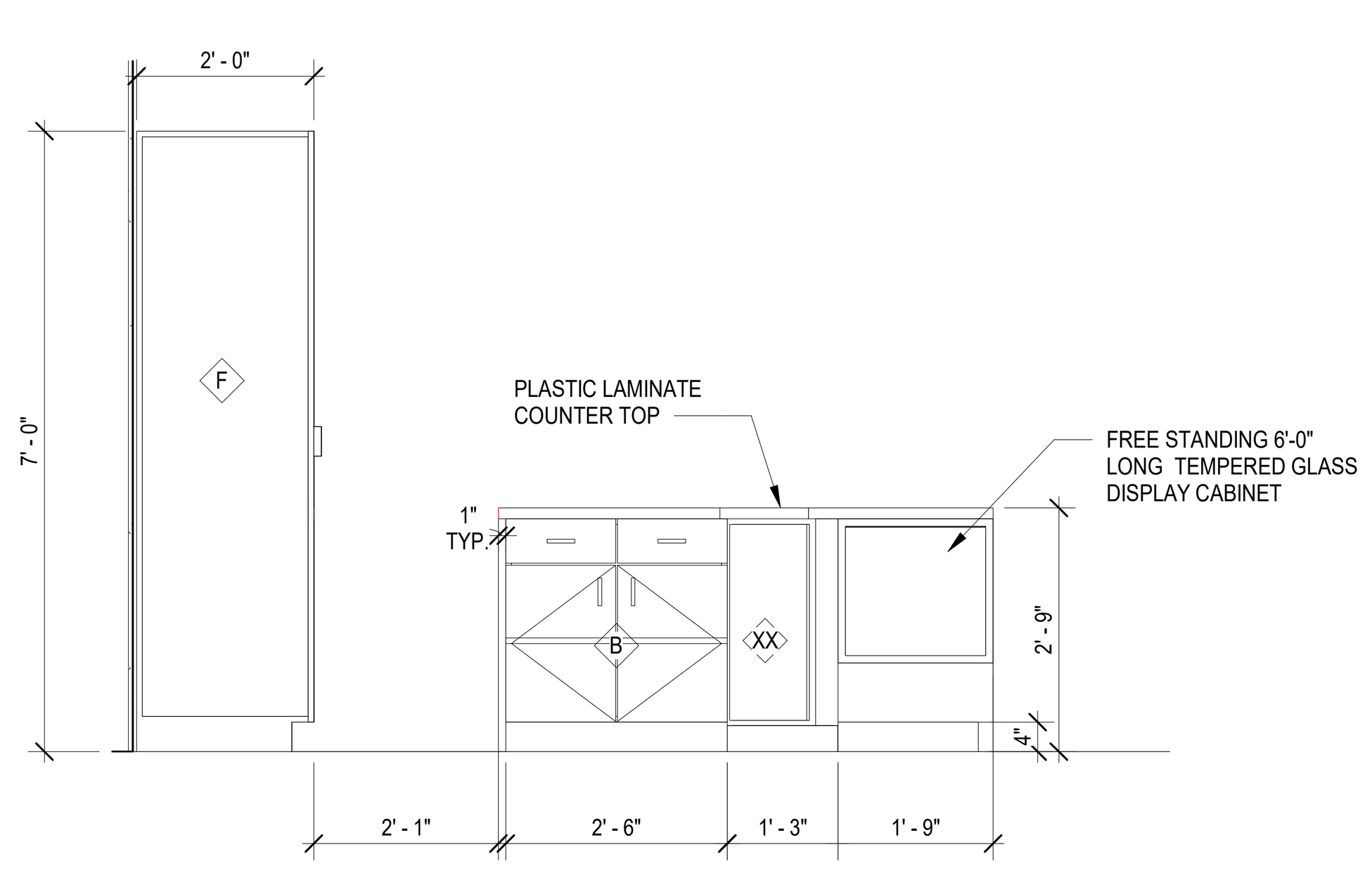
D2 A704 **MAIL CUBBIE SECTION**
3/4" = 1'-0"



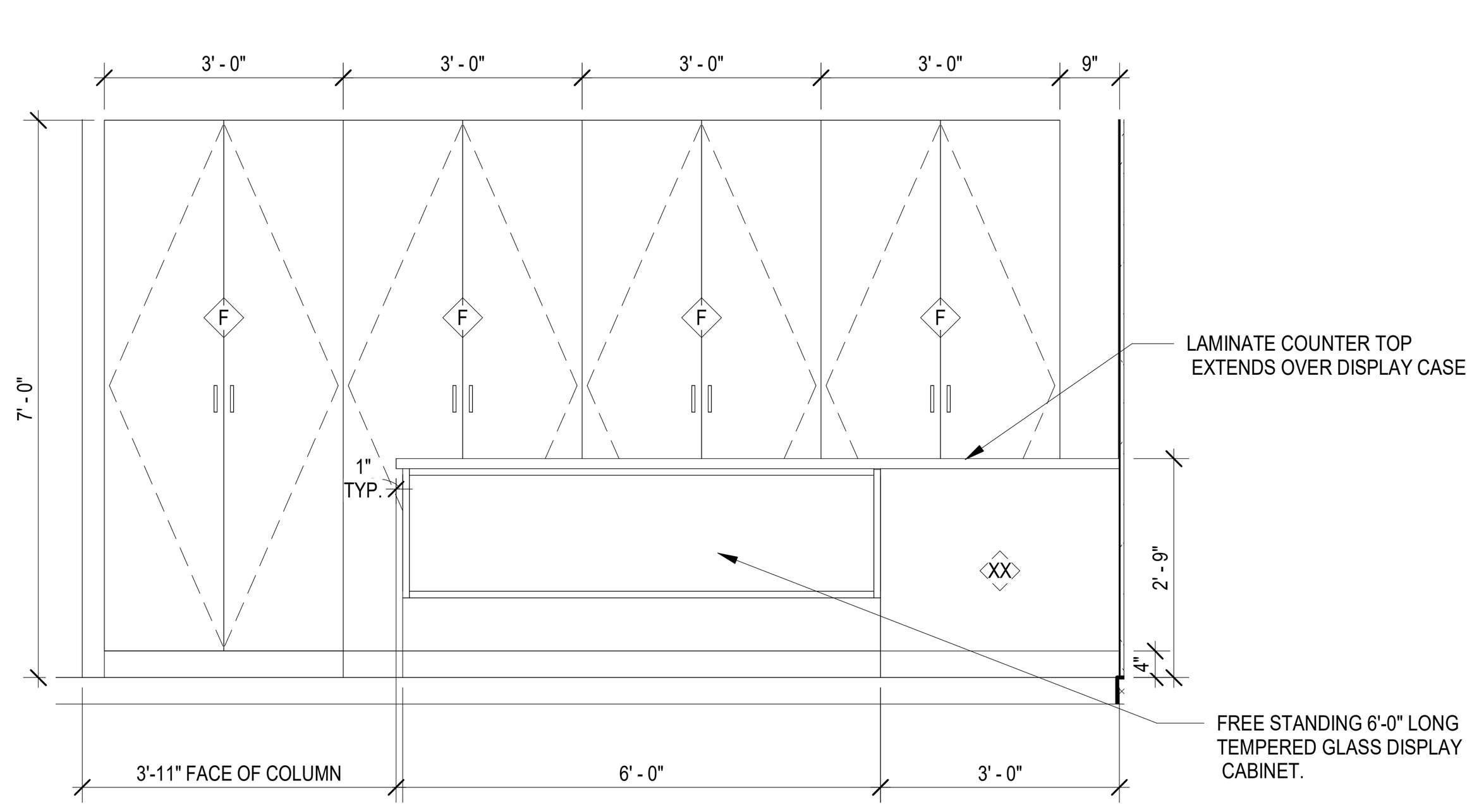
D3 A704 **SECTION THRU TEACHER WARDROBE**
3/4" = 1'-0"



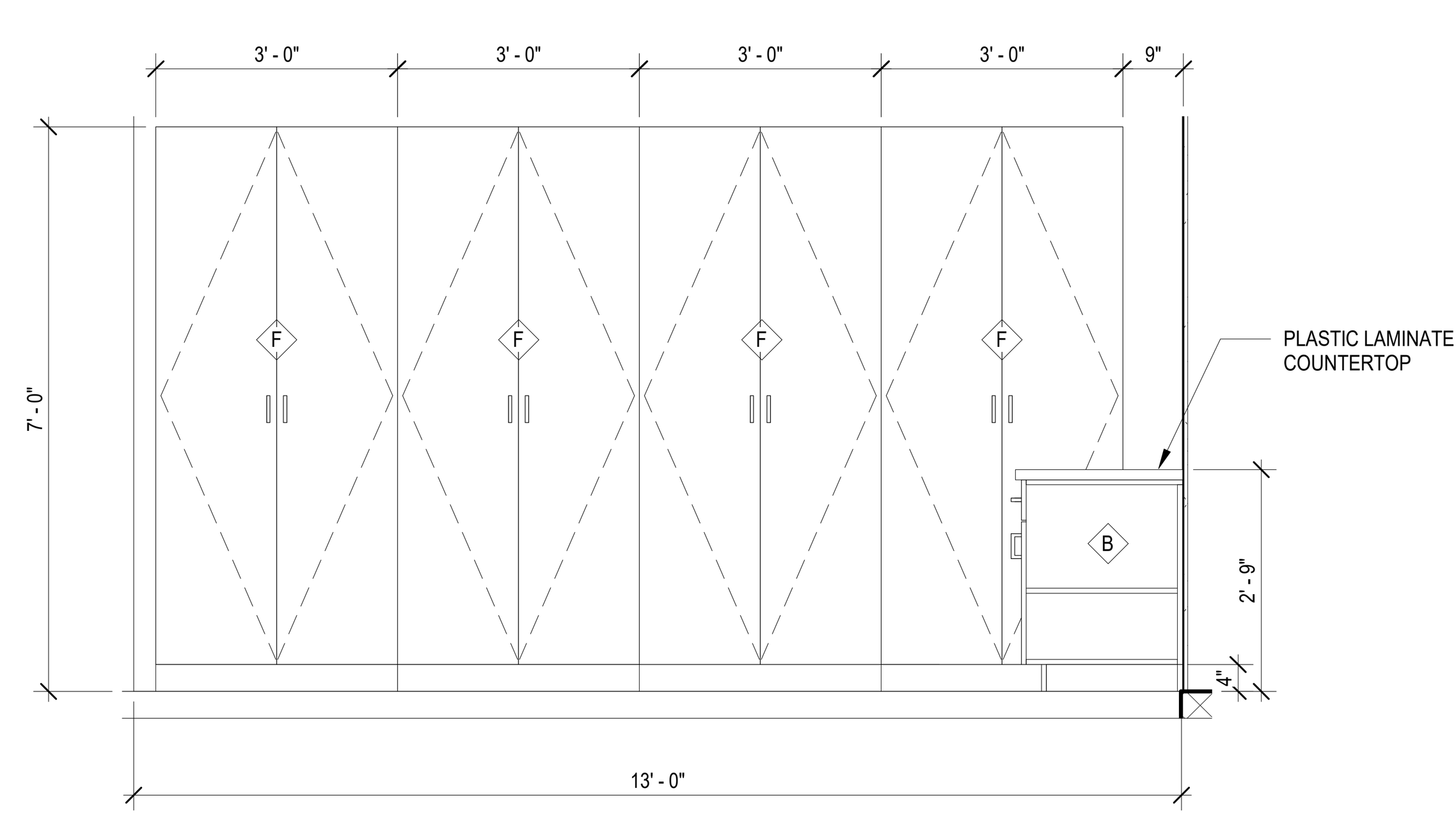
D4 A704 **SHELVING DETAIL**
3/4" = 1'-0"



3 A704 **STORAGE 1164_STORAGE_C**
1/2" = 1'-0"



2 A704 **STORE 1164_STORAGE_B**
1/2" = 1'-0"



1 A704 **STORE 1164 _STORAGE_A**
1/2" = 1'-0"

CASEWORK LEGEND

A	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
AA	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) WALL CABINET W/ 2 DOOR
AB	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP WALL CABINET W/ 2 DOORS AND ADJUSTABLE SHELF
B	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
BB	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 1 DOOR, 1 DRAWER
C	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET W/ 4 DRAWERS. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
D	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x 36" HIGH BOOKSHELF W/ 2 ADJUSTABLE SHELVES
E	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EA	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET
EE	(WIDTH SHOWN ON ELEVATIONS) x 12" DEEP x (HEIGHT SHOWN ON ELEVATIONS) OPEN WALL CABINET W/ ADJSUTABLE SHELF
F	36"W x 24"D x 84"H GENERAL STORAGE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS, WHERE NECESSARY) W/ TWO HINGED DOORS WITH LOCKS, FIXED VERTICAL DIVIDER, FIVE ADJUSTABLE SHELVES EACH SIDE. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
FF	36"W x 24"D x 84"H TEACHER'S WARDROBE (PROVIDE FILLER AT BACK TO MATCH 30"D CABINETS AS REQUIRED) W/ TWO HINGED DOORS W/ LOCK, FIXED VERTICAL DIVIDER, TWO ADJUSTABLE SHELVES, TWO FIXED SHELVES, CLOSET ROD, ONE LEGAL SIZE FILE DRAWER, MIRROR, PIN TRAY.
G	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x 33" H. SINK CABINET, TWO HINGED DOORS AND REMOVABLE SPLIT BACK. ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
H	72" TALL x 24" DEEP x 36" WIDE METAL SHELVING SYSTEM
J	(WIDTH SHOWN ON ELEVATIONS) x 23"D x (HEIGHT SHOWN ON ELEVATIONS) SLOPED ADA SINK CABINET W/ REMOVABLE FRONT PANEL.
K	(WIDTH SHOWN ON ELEVATIONS) x 24" D. x (HEIGHT SHOWN ON ELEVATION) BASE CABINET, TWO HINGED DOORS
L	(WIDTH SHOWN ON ELEVATIONS) x 12" D x (HEIGHT SHOWN ON ELEVATIONS) BOOK CASE W/ ONE, TWO OR FOUR ADJUSTABLE SHELVES (DEPENDS ON HEIGHT) BACK AND PLASTIC LAMINATE TOP INCLUDED.
M	(WIDTH SHOWN ON ELEVATIONS) x (DEPTH SHOWN ON PLAN) x (HEIGHT SHOWN ON ELEVATIONS) FILE CABINET W/ TWO LEGAL SIZE DRAWERS.
N	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP OPEN BASE CABINET W/ ADJSUTABLE SHELF
O	18"W x 30"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
OO	18"W x 24"D x (HEIGHT SHOWN ON ELEVATIONS) BASE CABINET WITH TWO 6" DRAWERS AND ONE
P	(WIDTH SHOWN ON ELEVATIONS) x 24" DEEP BASE CABINET W/ 2 DOORS, 2 DRAWERS AND ADJUSTABLE SHELF
Q	(WIDTH SHOWN ON ELEVATIONS) x 20"D x (HEIGHT SHOWN ON ELEVATIONS) 12" CLEAR WIDTH MAIL CUBBIES
R	DOUBLE FACED DEMONSTRATION FUME HOOD. 60" x 84" x 30 1/2"D. INCLUDE ONE COLD WATER GOOSENECK FAUCET, ONE DOUBLE GAS COCK, TWO DUPLEX (GRCI) RECEPTACLES, ONE VAPOR TIGHT INCANDESCENT LAMP AND SWITCH, ONE EPOXY RESIN SINK, 12" x 8" x 6"D. WITH 1" THICK EPOXY RESIN TOP. SIDES ARE SOLID FOR INSTALLATION BETWEEN ROOMS. EXHAUST BY HVAC CONTRACTOR. COLLEGEDALE PD-99816V ON DHBB-9F60 (DOUBLE FACED BASE CABINET). ALL CASEWORK IN SCIENCE LABS TO BE LOCKABLE.
S	44" TALL x 43" WIDE x 18" DEEP ACID CABINET W/ 1 ADJUSTABLE SHELF
T	12" DEEP LOCKABLE GLASS DOOR WALL CABINET W/ ADJUSTABLE SHELVES
V	24" WIDE WALL CABINET W/ SAFETY GLASSES STORAGE
W	12" DEEP WALL CABINET - FIRST AID
X	CORNER WALL CABINET
XX	BASE CORNER CABINET
ZZ	(WIDTH SHOWN ON PLANS) x (DEPTH SHOWN ON PLANS) x 84"H SHELVING UNIT W/ SIX ADJUSTABLE SOLID PINE SHELVES W/ METAL EDGES

MARKER BOARD LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
MB-1	8'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	70
MB-2	6'-0"W X 4'-0"H MARKER BOARD W/ MARKER TRAY	31

TACK STRIP LEGEND

TAG	DESCRIPTION	TOTAL IN PROJECT
TS-1	8'-0" LONG TACK STRIP	100
TS-2	6'-0" LONG TACK STRIP	34

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

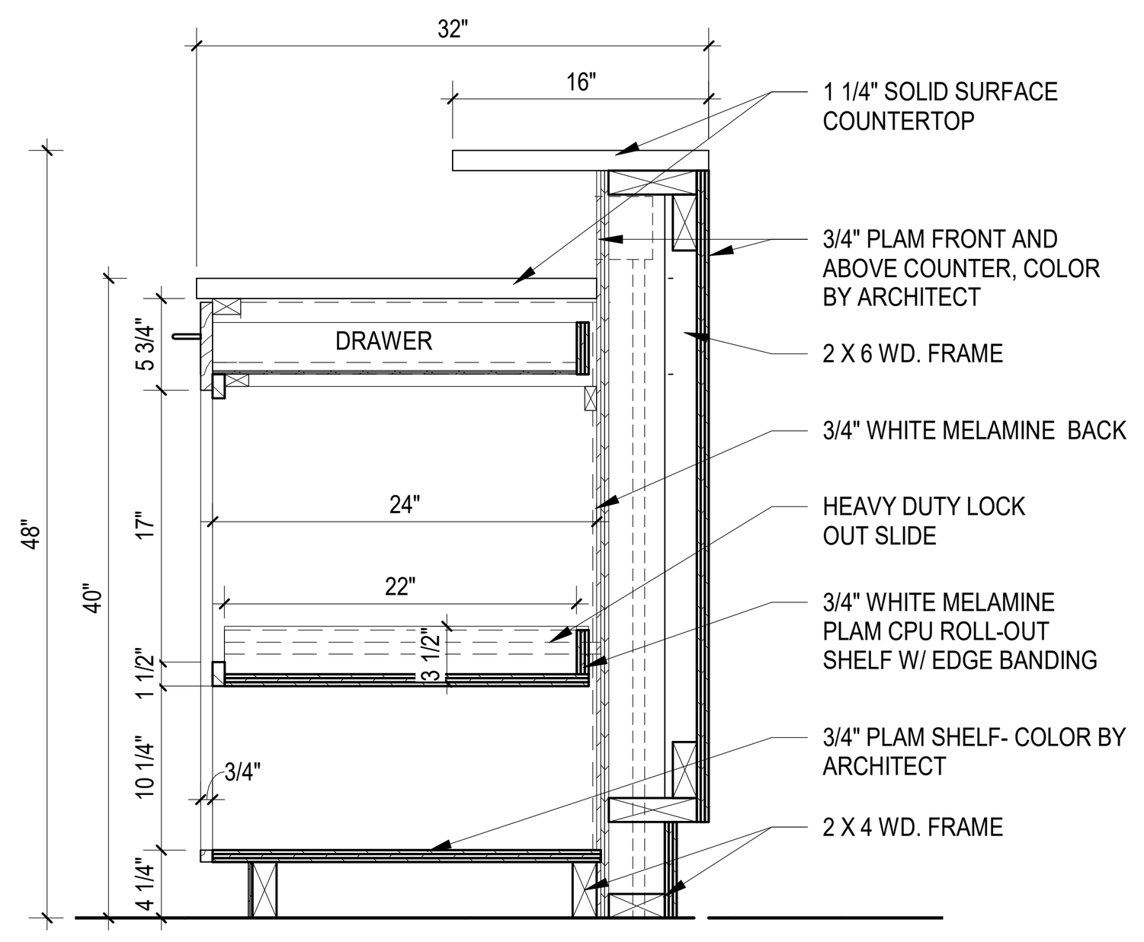
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

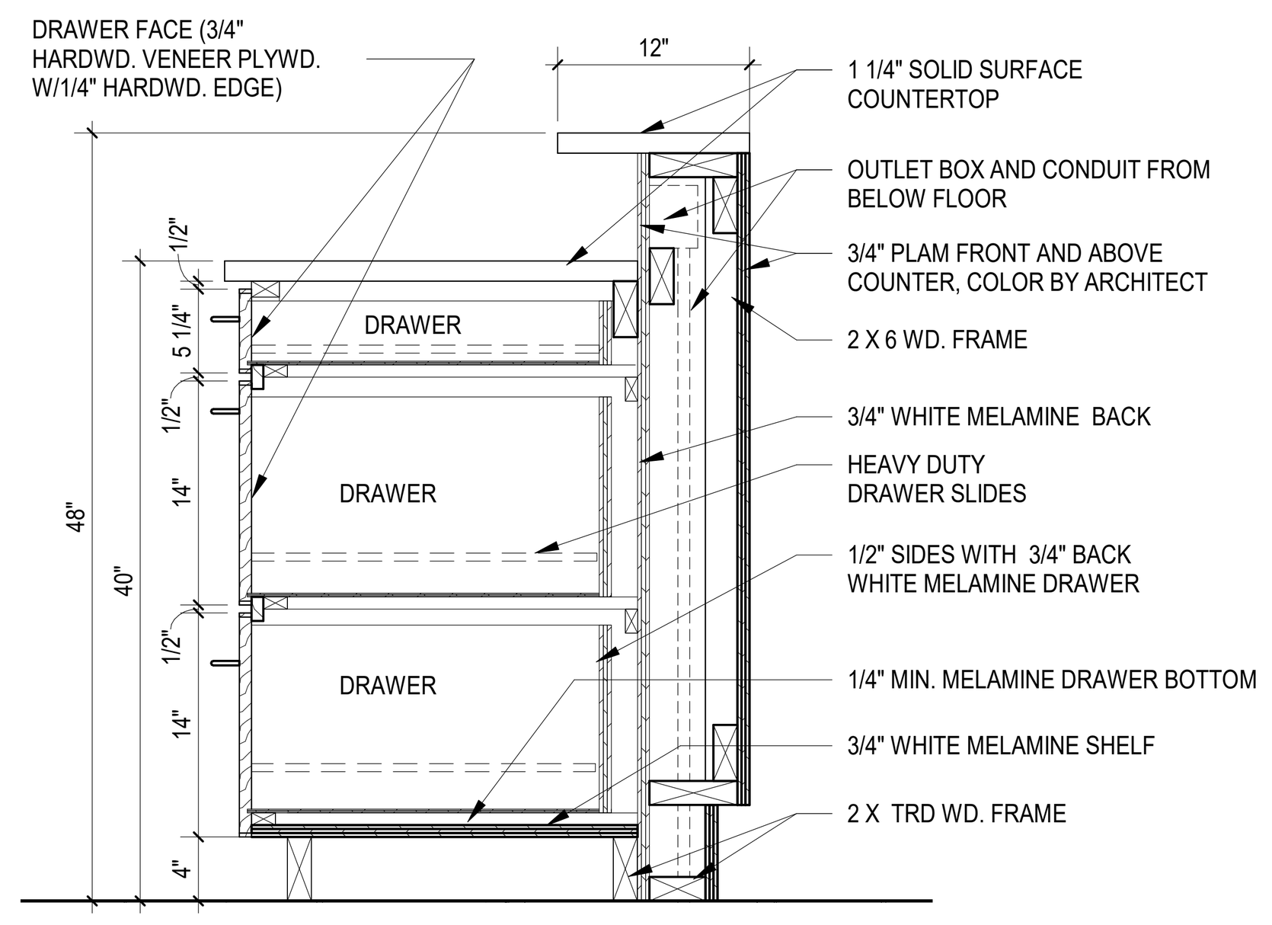
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KFL,SEA

SHEET TITLE:
INTERIOR ELEVATIONS

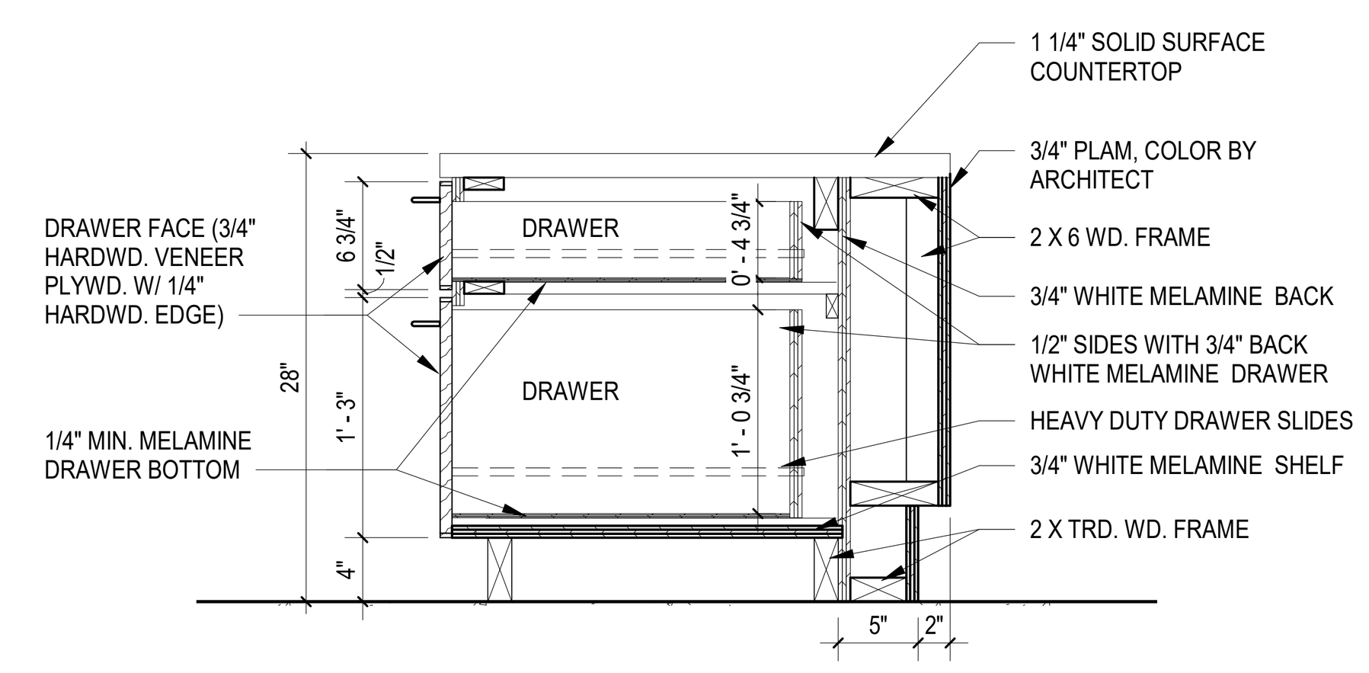
SHEET NO. A704
PROJ. NO. 020420.00



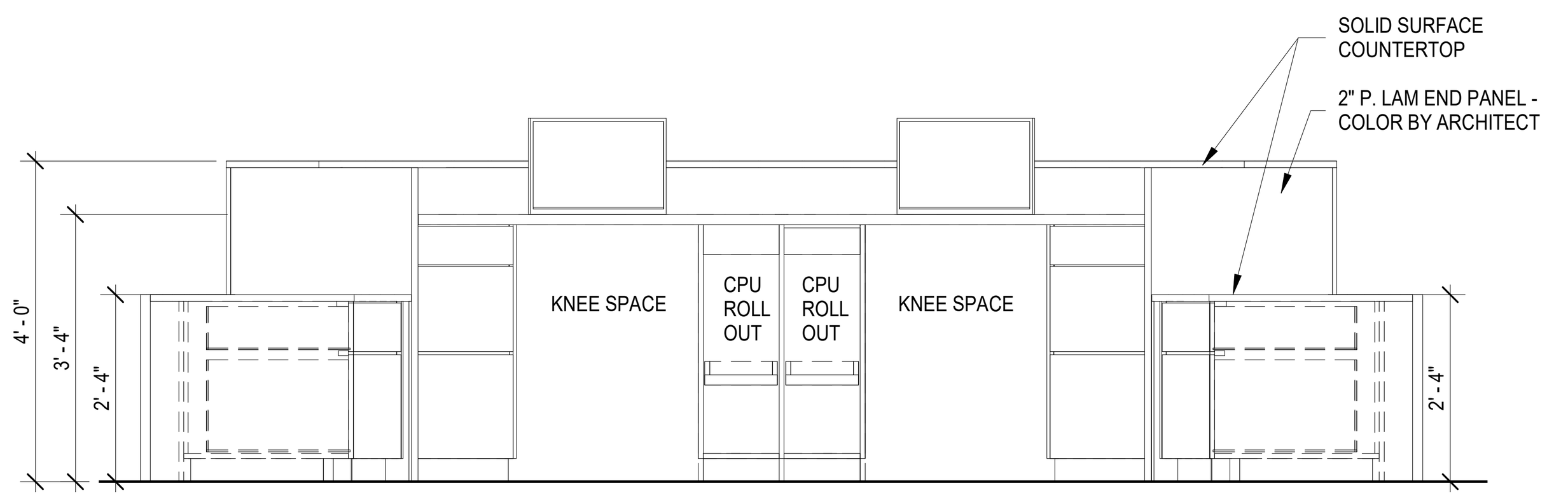
D1 A710 **CIRCULATION DESK SECTION 3**
1" = 1'-0"



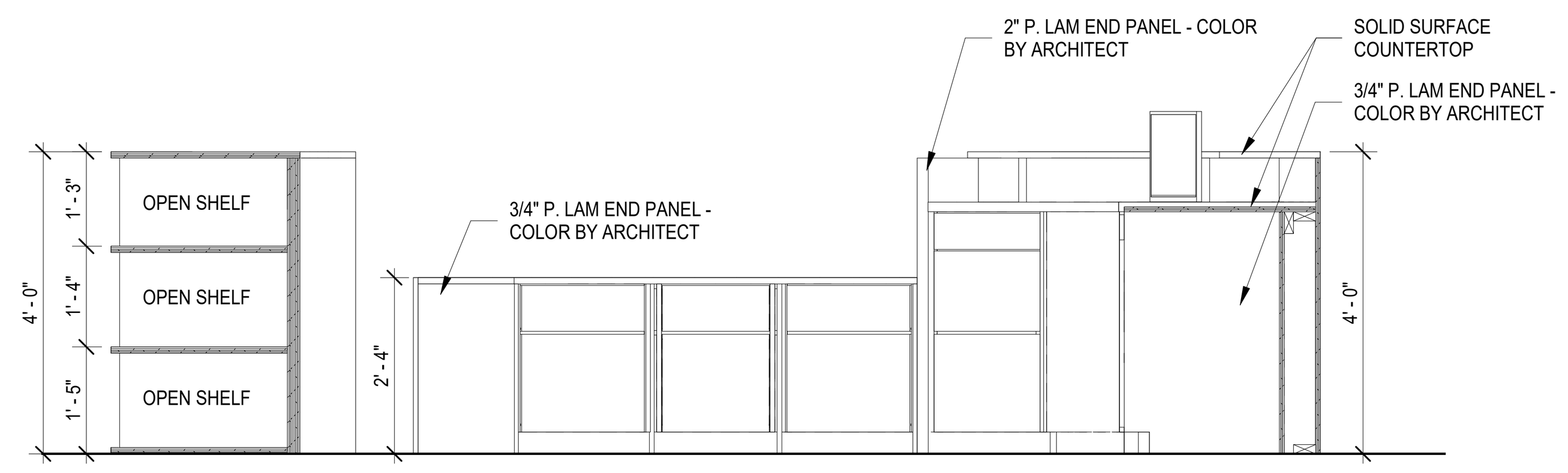
D2 A710 **CIRCULATION DESK SECTION 4**
1" = 1'-0"



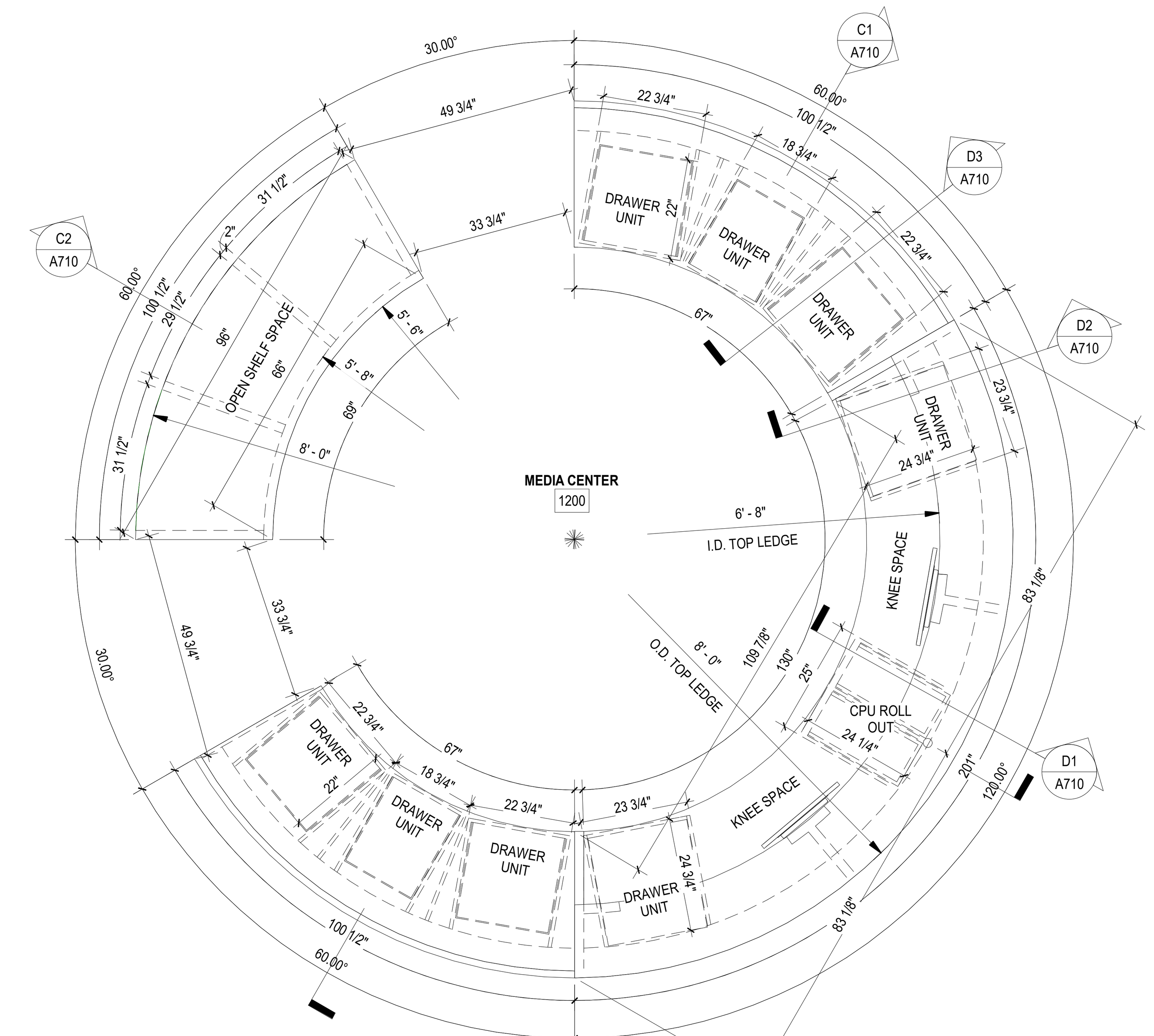
D3 A710 **CIRCULATION DESK SECTION 5**
1" = 1'-0"



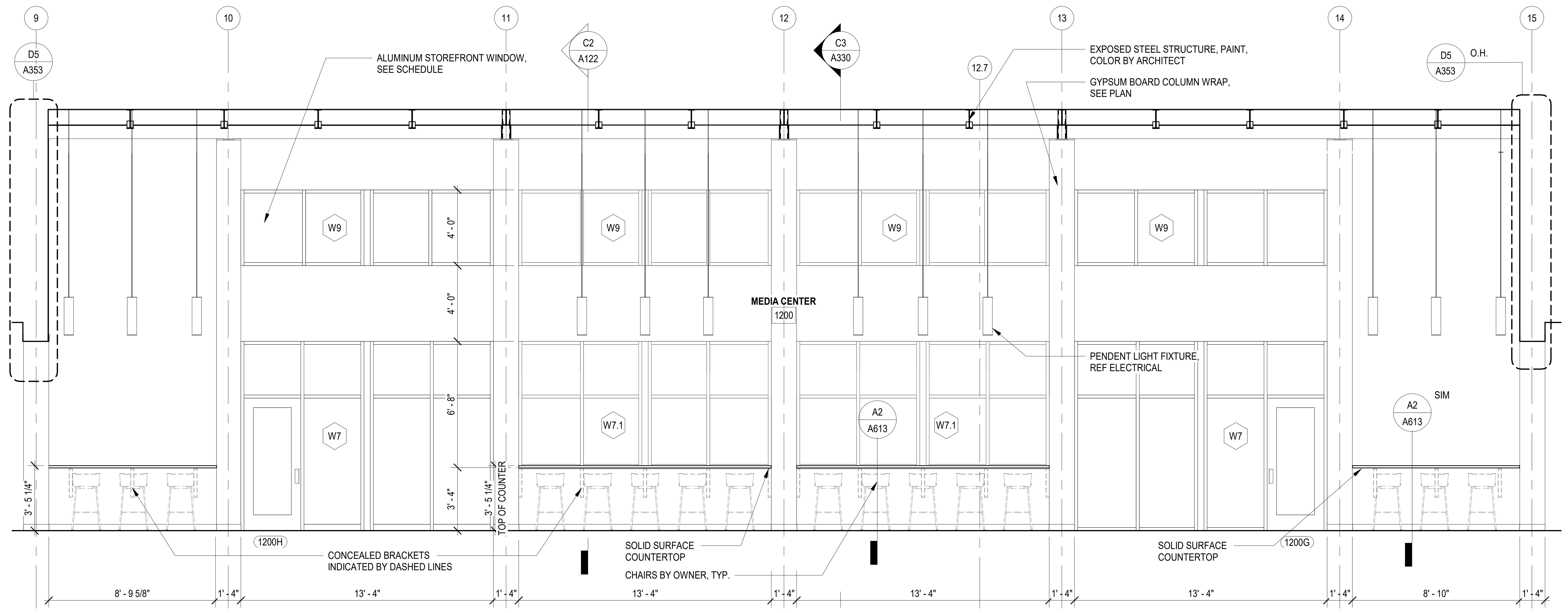
C1 A710 **CIRCULATION DESK SECTION B**
1/2" = 1'-0"



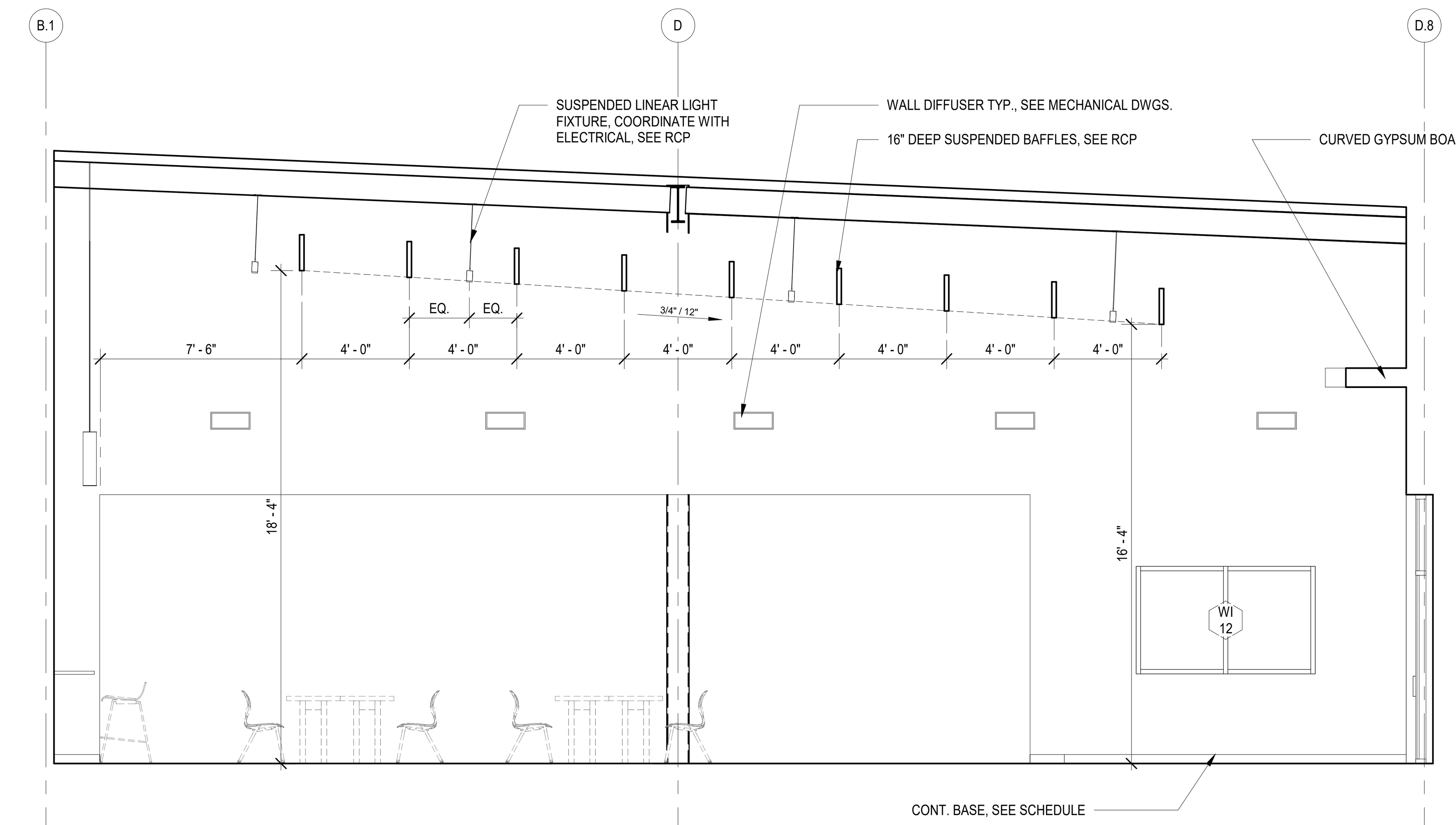
C2 A710 **CIRCULATION DESK SECTION 1**
1/2" = 1'-0"



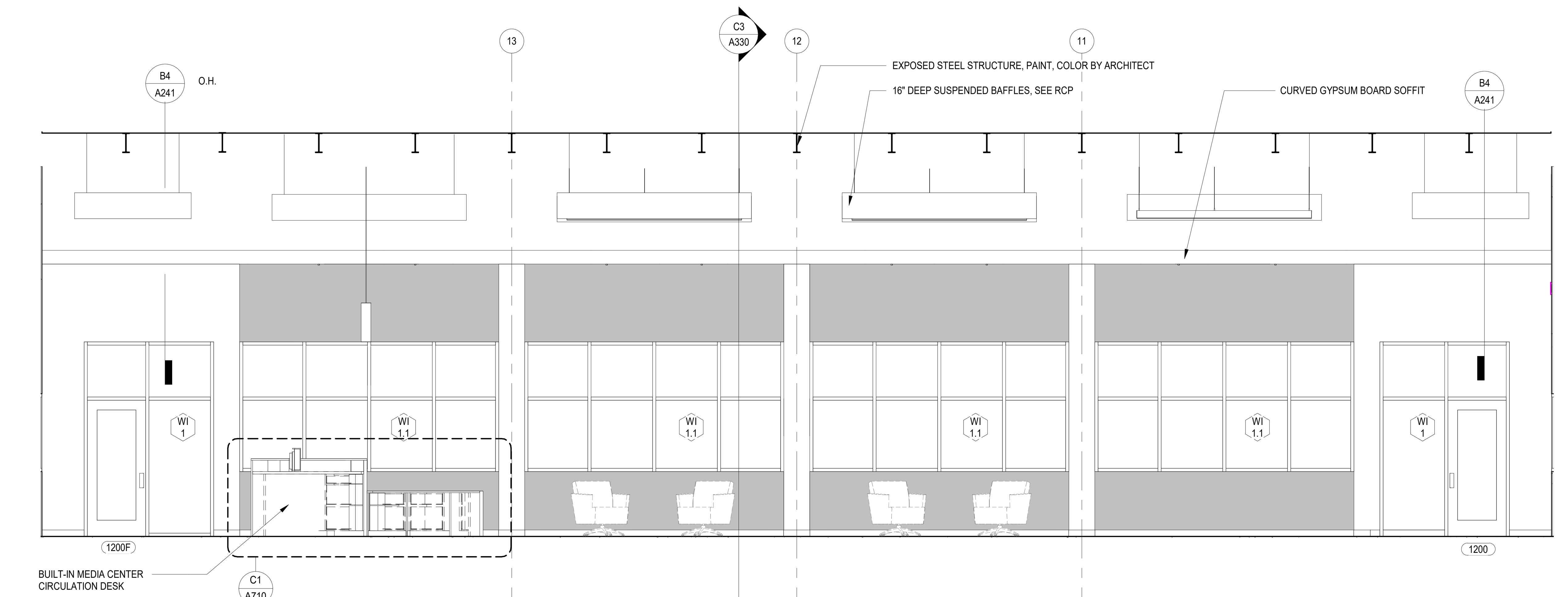
C4 A710 **MEDIA CENTER CIRCULATION DESK ENLARGED PLAN**
1/2" = 1'-0"



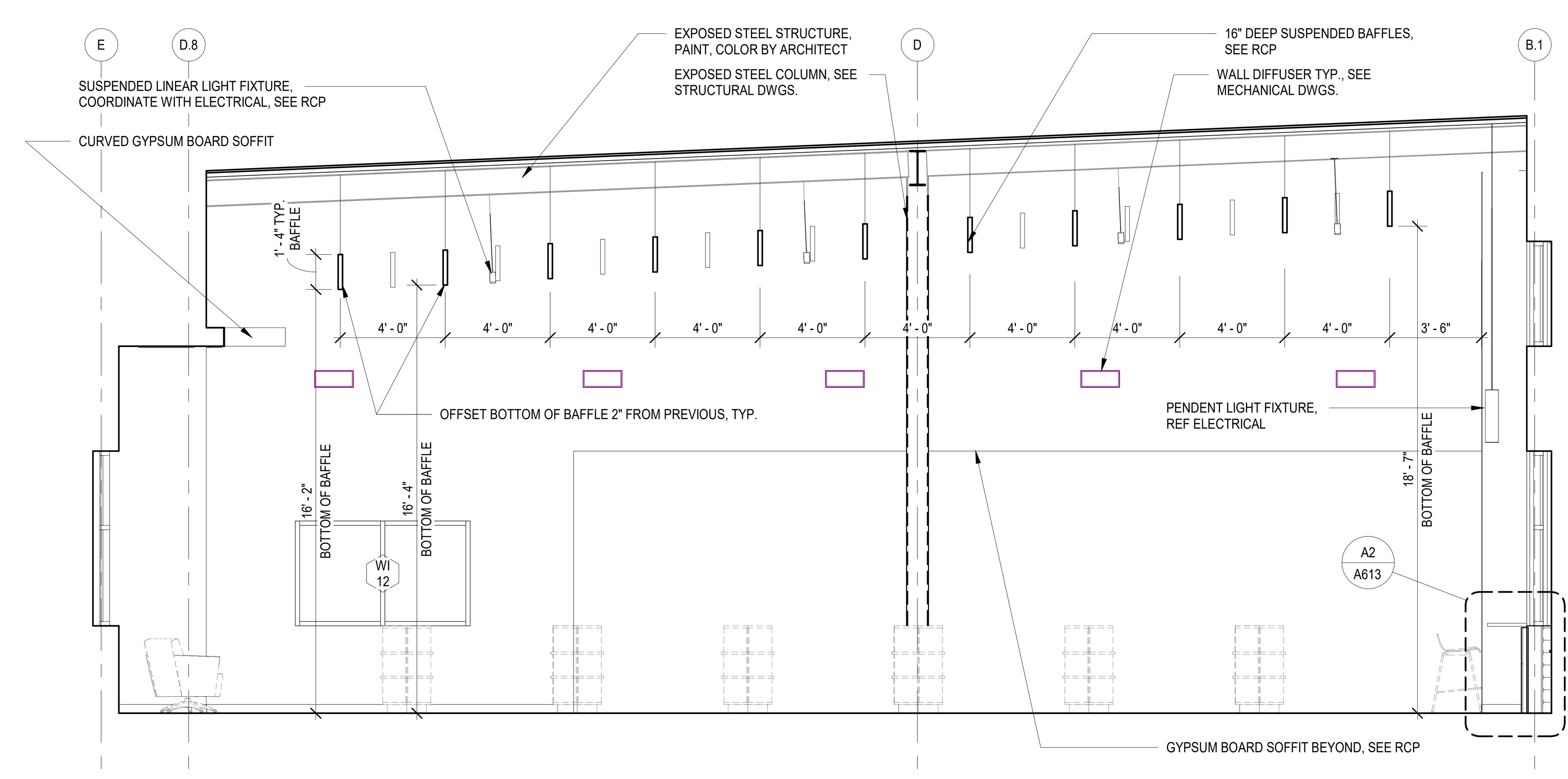
B1 A710 **1200 LEVEL - MEDIA ELEVATION NORTH**
1/4" = 1'-0"



B3 A710 **1200 LEVEL - MEDIA ELEVATION EAST**
1/4" = 1'-0"



A1 A710 **1200 LEVEL - MEDIA ELEVATION SOUTH**
1/4" = 1'-0"



A3 A710 **1200 LEVEL - MEDIA ELEVATION WEST**
1/4" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

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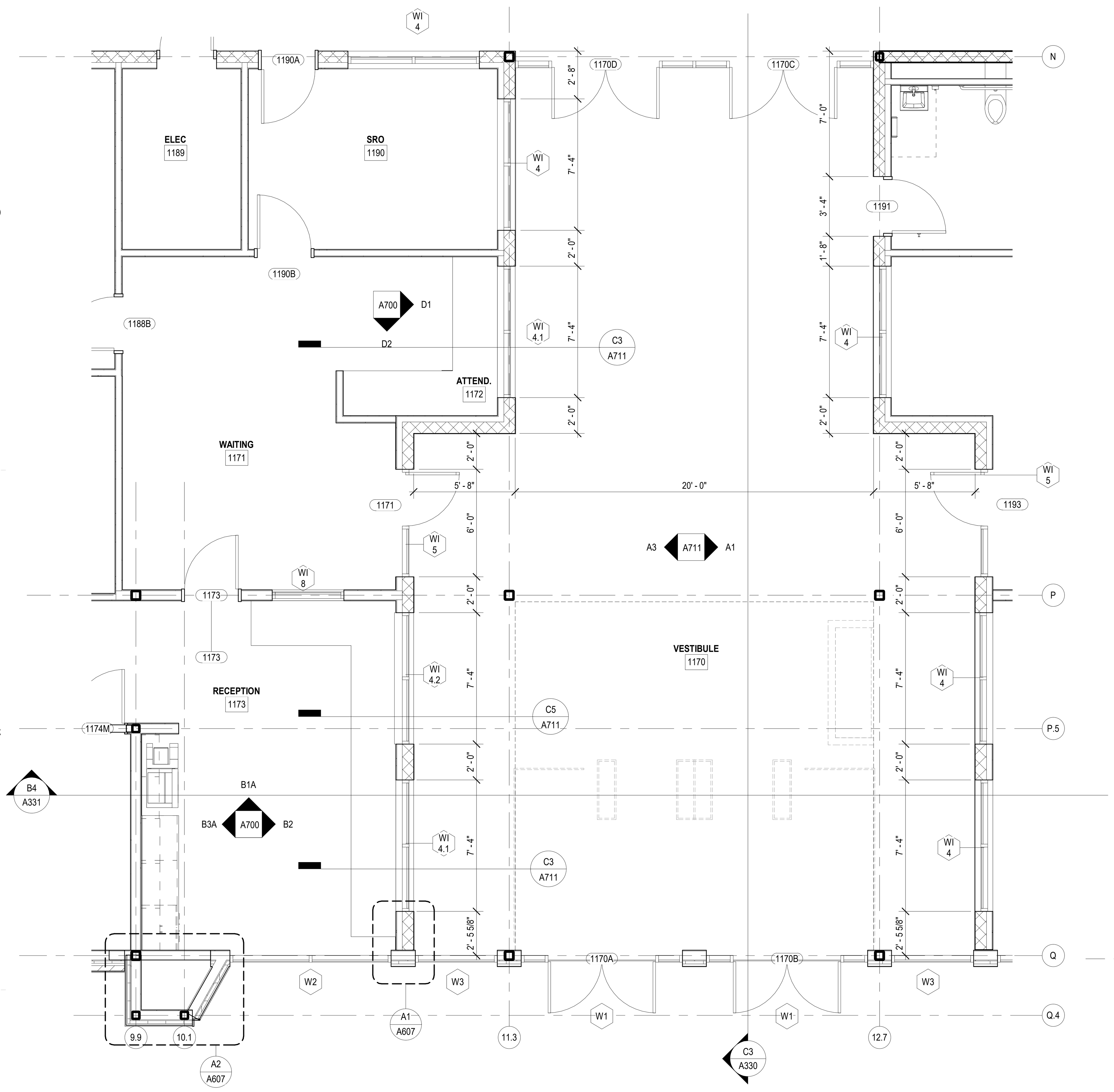
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

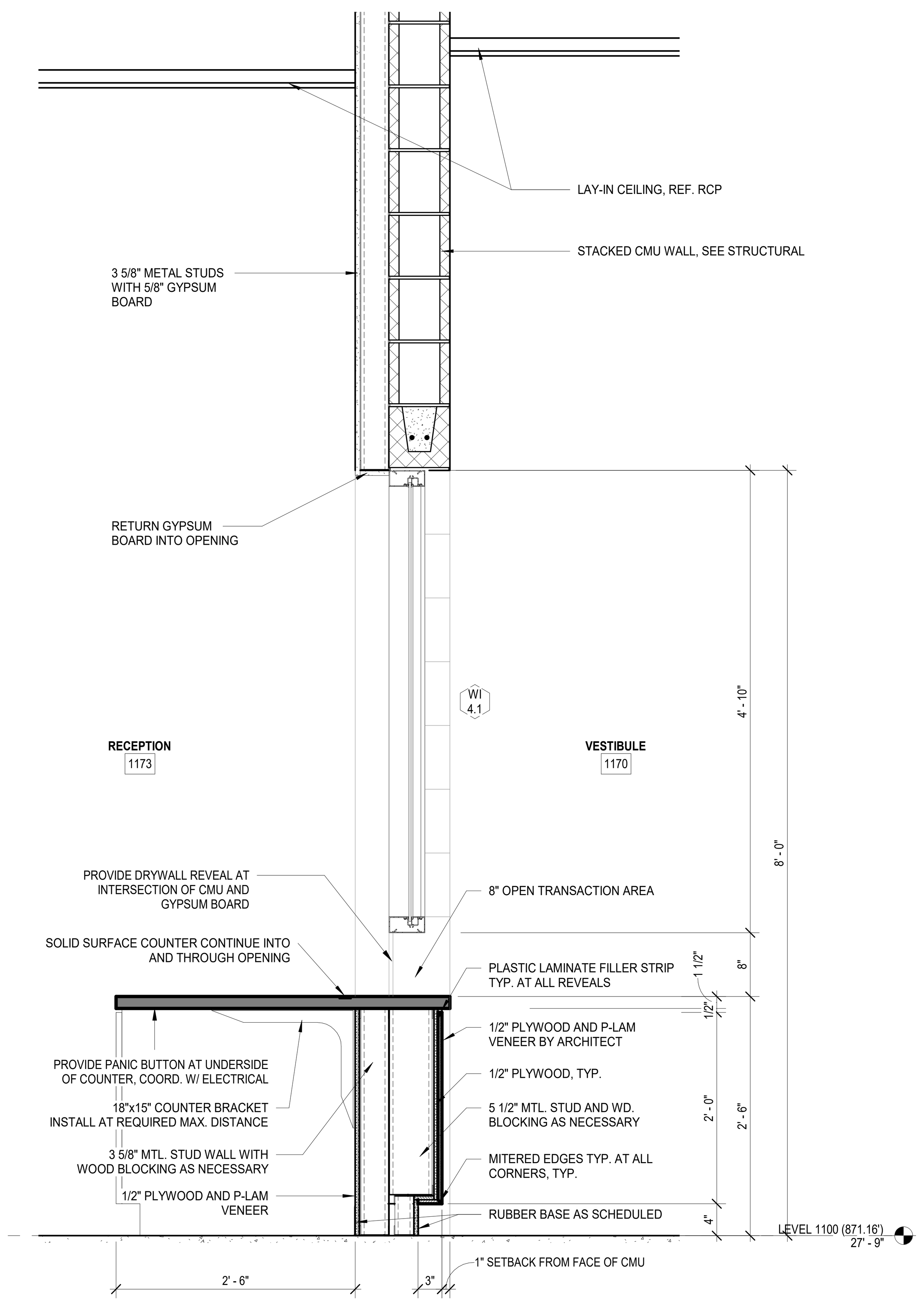
SHEET TITLE:
INTERIOR ELEVATIONS - MEDIA CENTER

SHEET NO.
PROJ. NO. 020420.00

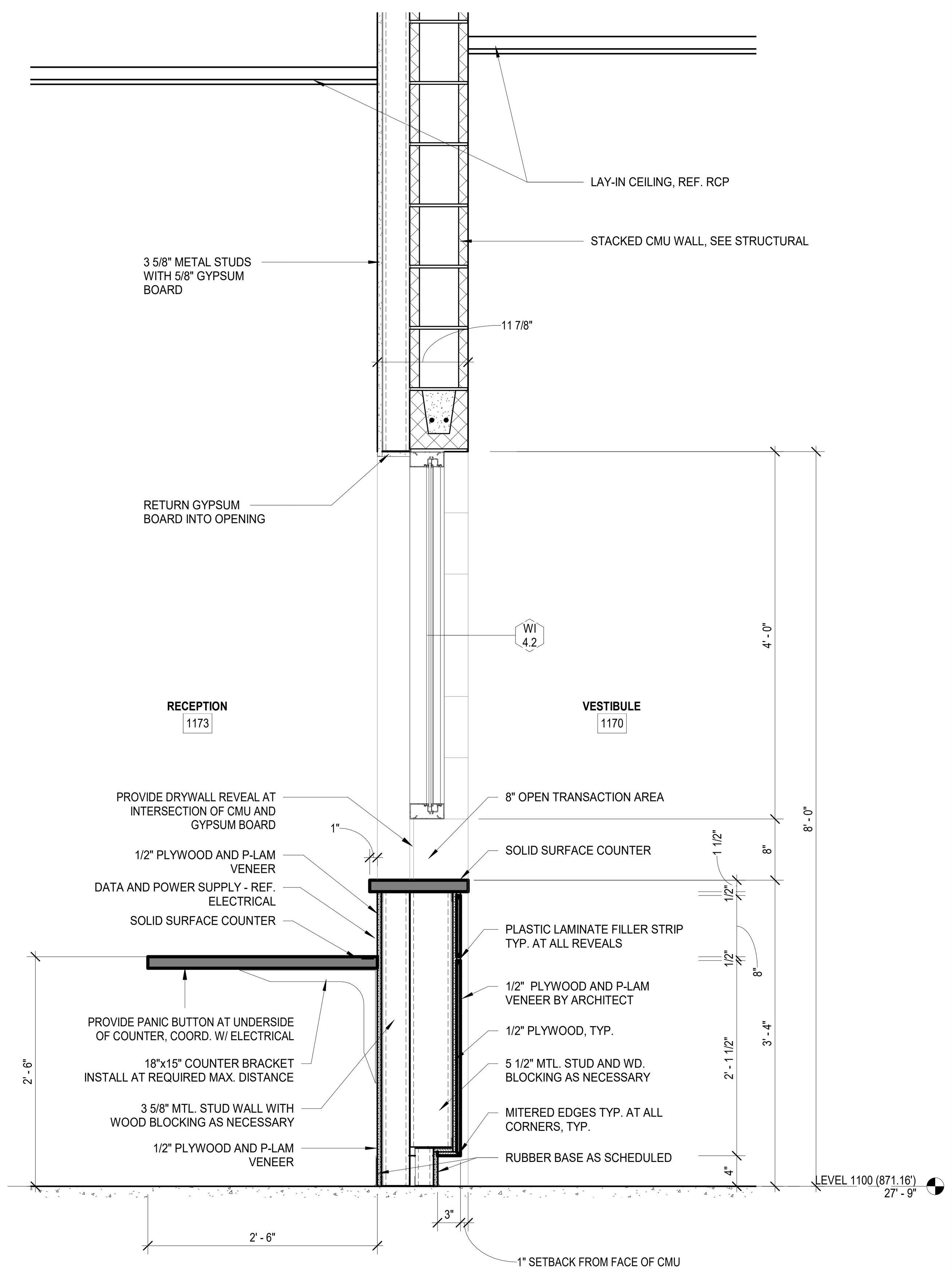
A710



C1 A711 **ENLARGED LOBBY PLAN - PHASE 2 1100 LEVEL**
1/4" = 1'-0"

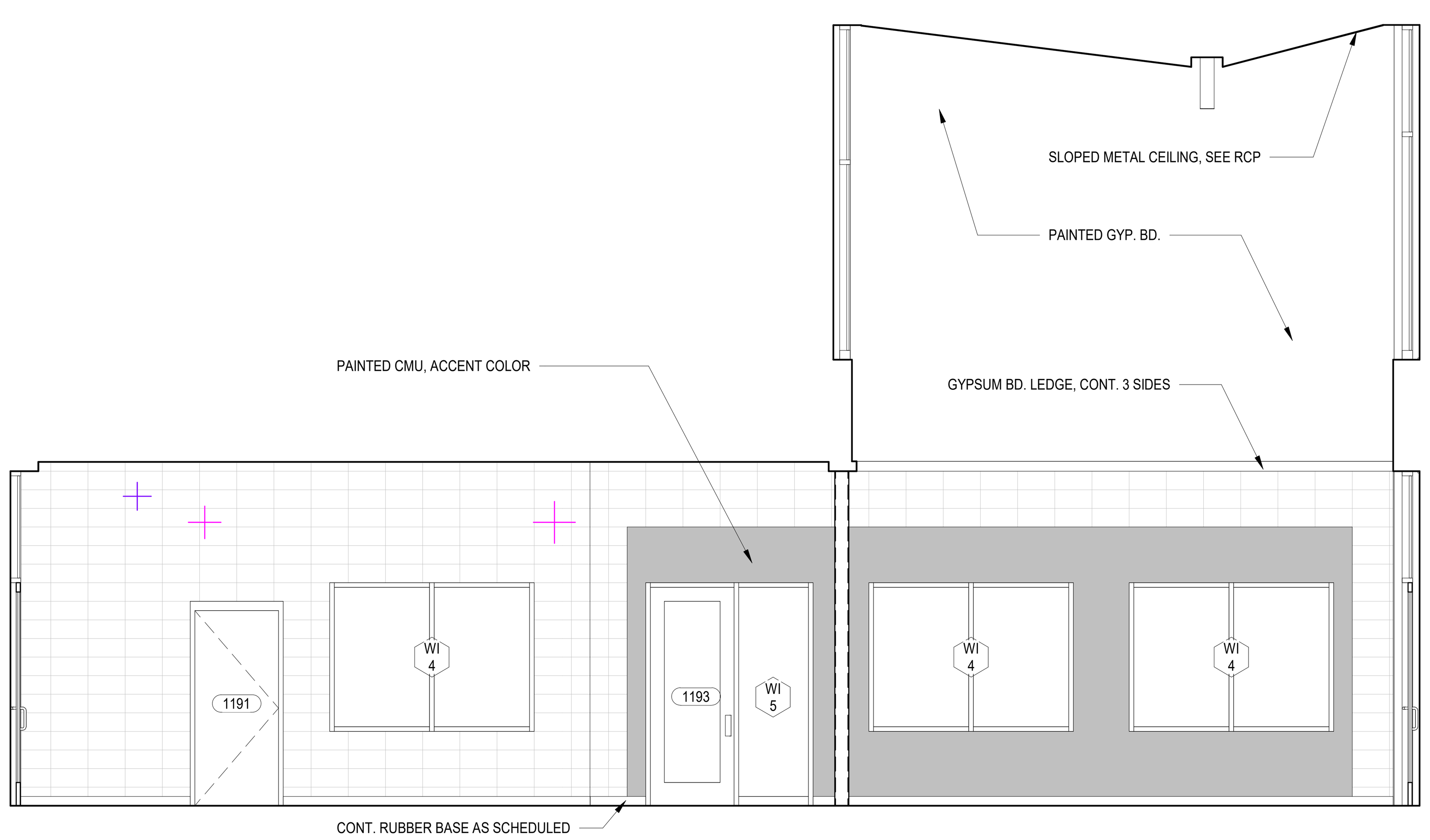


C3 A711 **DETAIL SECTION - TRANSACTION WINDOW C3/A711**
1" = 1'-0"



C5 A711 **DETAIL SECTION - TRANSACTION WINDOW C5/A711**
1" = 1'-0"

3 A711 **_3 Entrance Lobby Interior**



A1 A711 **1100 LEVEL - LOBBY ELEVATION EAST**
1/4" = 1'-0"

A3 A711 **1100 LEVEL - LOBBY ELEVATION WEST**
1/4" = 1'-0"

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150 E. MAIN STREET
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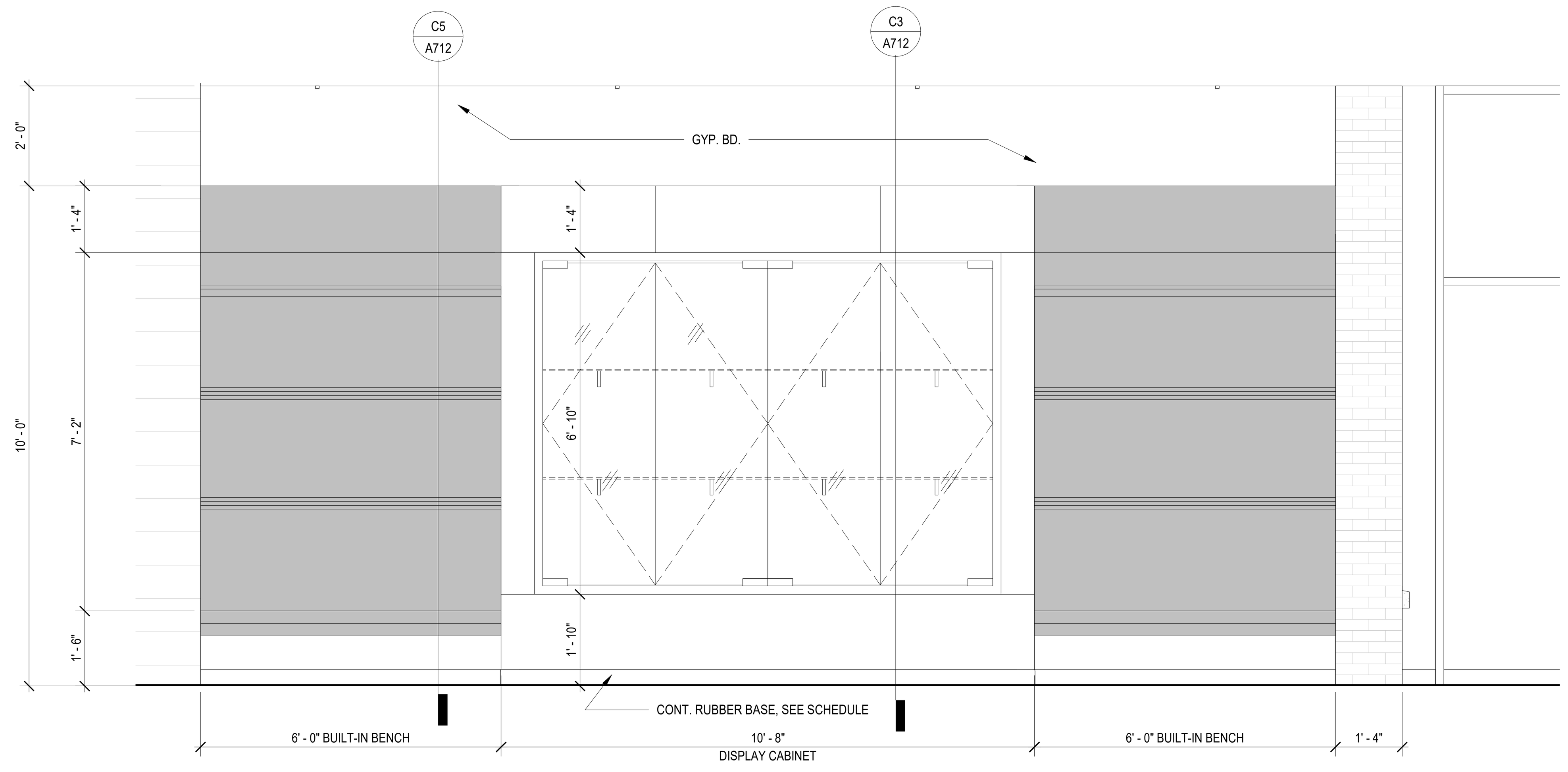
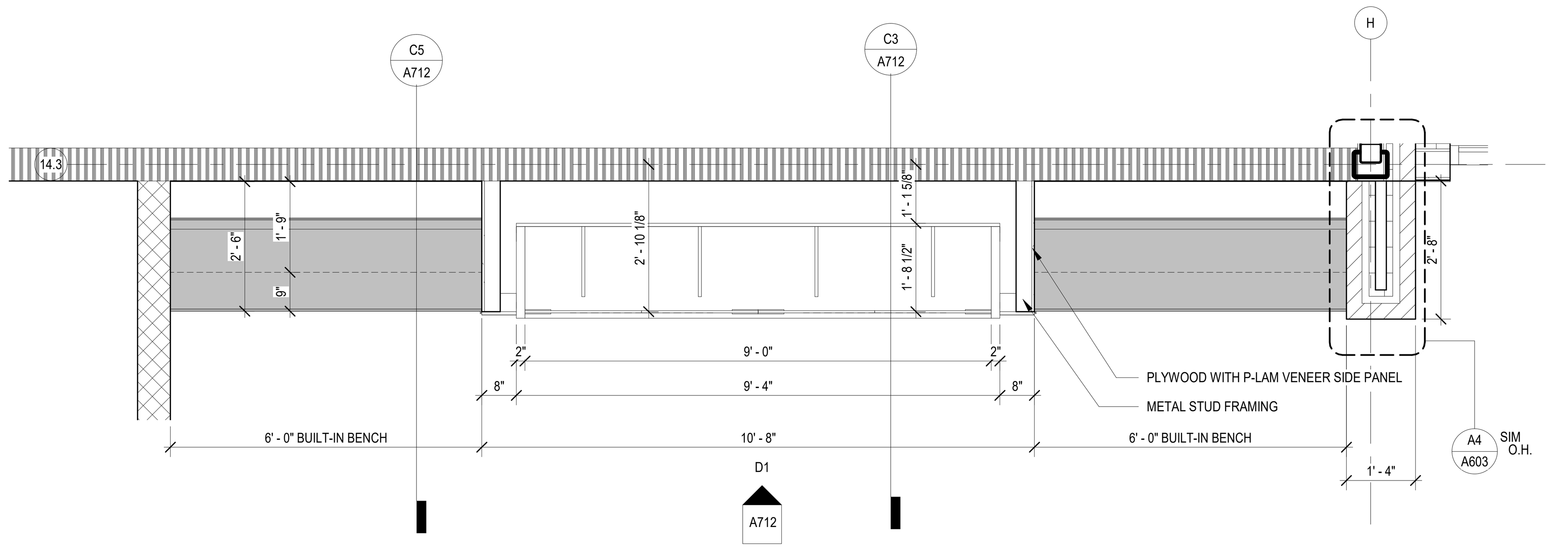
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RCP
DRAWN BY: CBM

SHEET TITLE:
INTERIOR ELEVATIONS - MAIN ENTRANCE

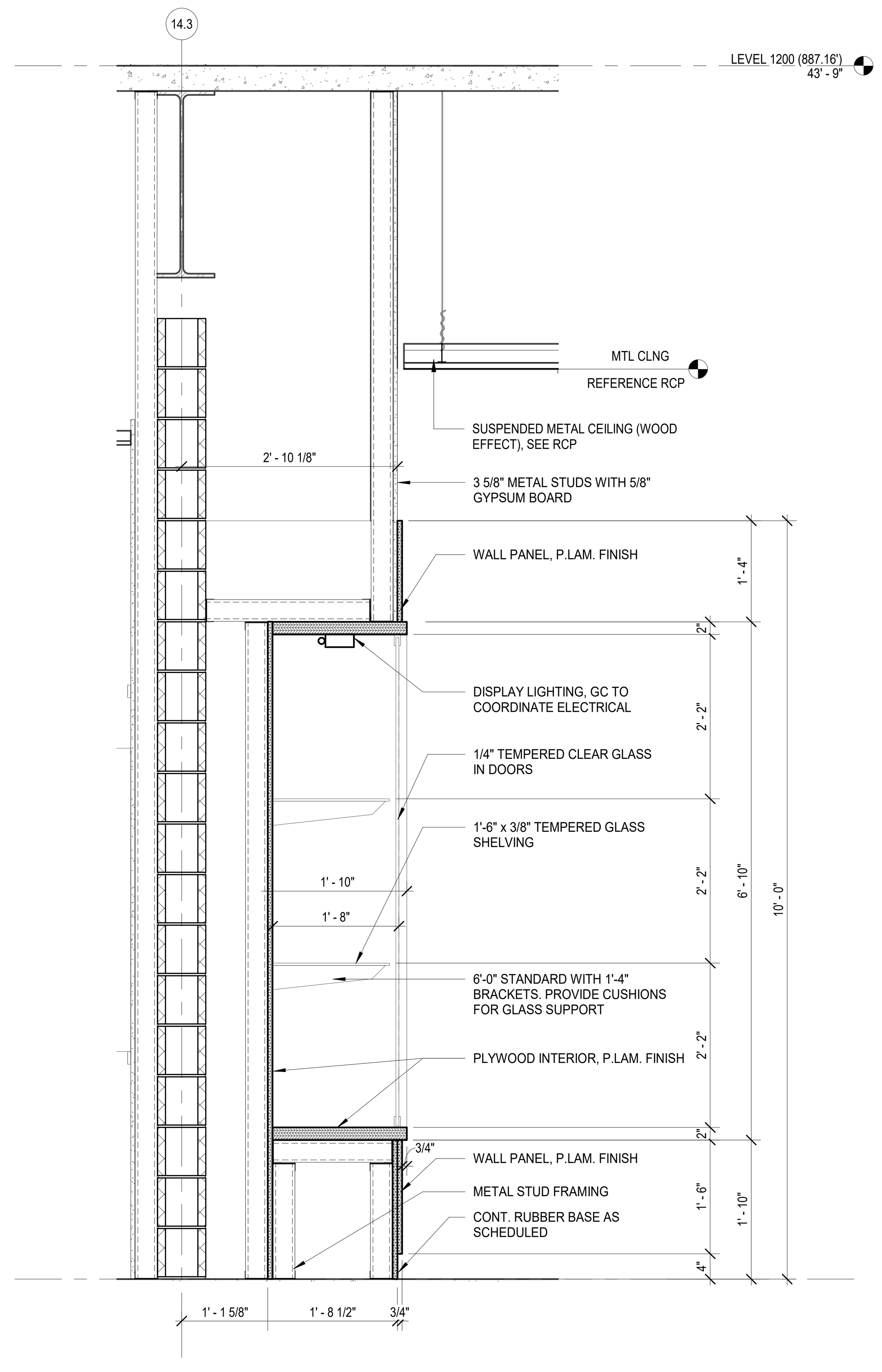
SHEET NO. A711
PROJ. NO. 020420.00



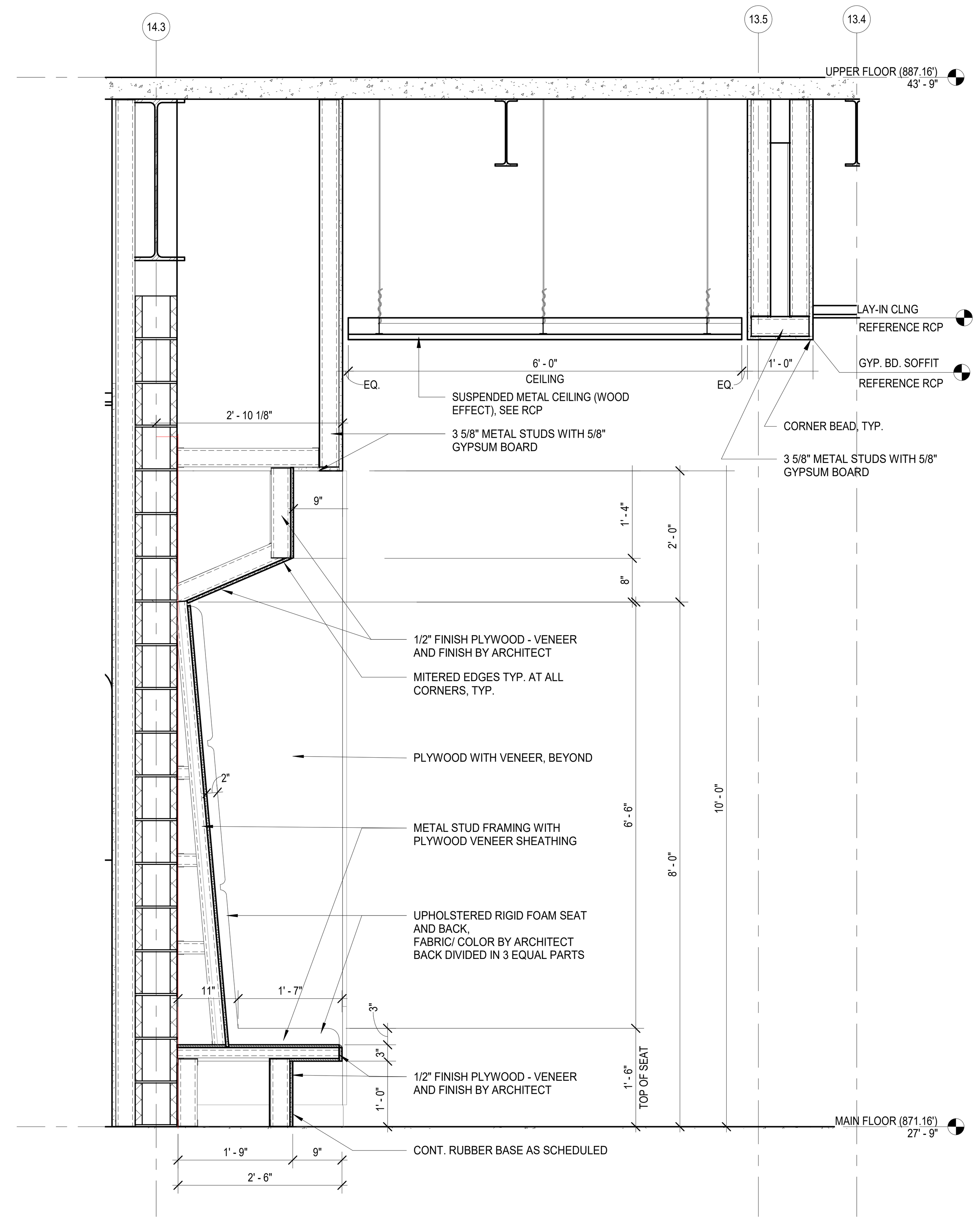
D1 A712 **1100 LEVEL- DISPLAY CABINET AT STAIR - ELEVATION**
1/2" = 1'-0"



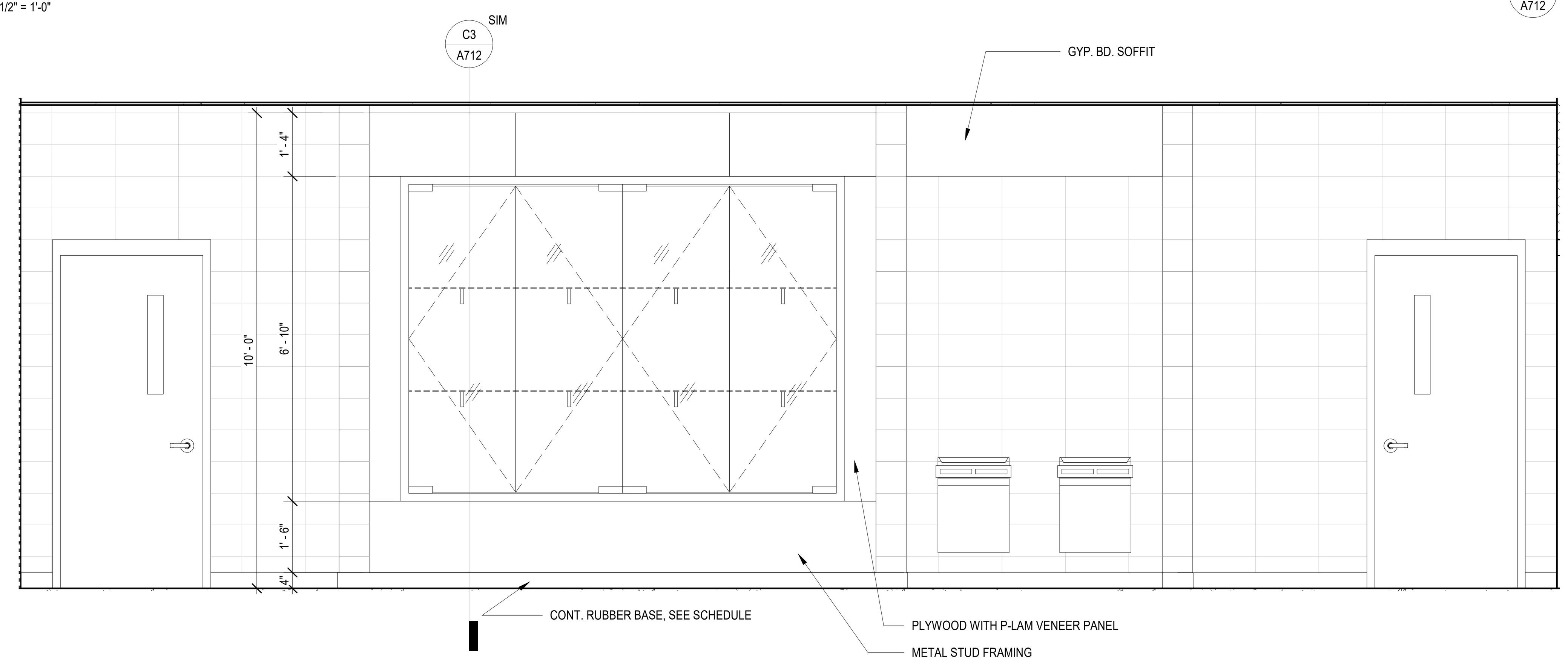
C1 A712 **1100 LEVEL - DISPLAY CABINET - ENLARGED PLAN**
1/2" = 1'-0"



C3 A712 **1100 LEVEL - DISPLAY CABINET**
3/4" = 1'-0"

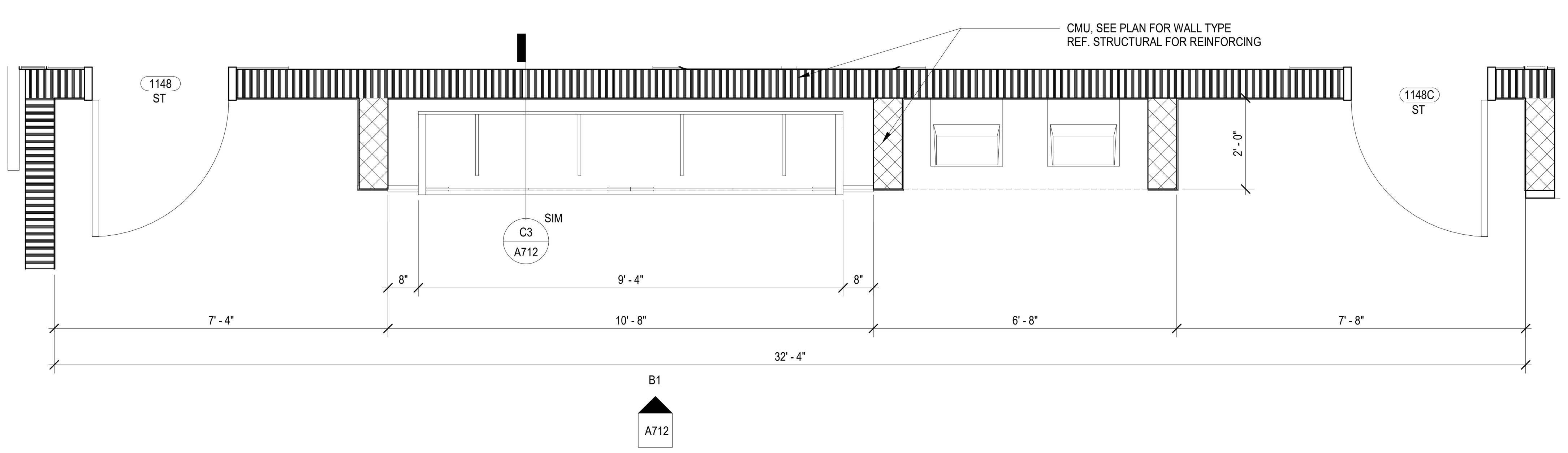


C5 A712 **1100 LEVEL - BUILT IN SEATING**
3/4" = 1'-0"



B1 A712 **1100 LEVEL - DISPLAY CABINET CORRIDOR - ELEVATION**
1/2" = 1'-0"

1 A712 **_5 Monumental Stair - built-in bench & display**



A1 A712 **1100 LEVEL - DISPLAY CABINET CORRIDOR - ENLARGED PLAN**
1/2" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	MLC

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PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: CBM

SHEET TITLE:
INTERIOR ELEVATIONS - DISPLAY CABINET & BENCH

PROJ. NO. 020420.00

A712

DOOR SCHEDULE

	DOOR	ROOM	DOOR						FRAME		DETAILS		
FLOOR	NO.	NO.	WIDTH	HEIGHT	THK.	TYPE	RATING	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	REMARKS
BASEMENT (843.40')	B014	B014	3' - 0"	6' - 8"	0' - 1 3/4"	D		HM	4	HM	H-14	C4/A600 & J-14	LOUVER ABOVE DOOR
BASEMENT (843.40')	B014A	B014	6' - 0"	6' - 8"	0' - 1 3/4"	D		HM	5	HM	H-14	C1/A600 & J-14	PAIR OF DOORS, LOUVER ABOVE DOOR
BASEMENT (843.40')	S2-B	S2	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	2	HM	B1/A612	A2/A600	
LEVEL 1000 (856.73')	1041	1041	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1041M	1041M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-9	J-9	
LEVEL 1000 (856.73')	1042	1042	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1042A		21' - 7"	10' - 0"		K					6/A240		OPERABLE FOLDING PARTITION WITH PASS THROUGH DOOR
LEVEL 1000 (856.73')	1042M	1042M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1043A	1043	6' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	1	HM	H-4	J-4	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1000 (856.73')	1043B	1043	4' - 0"	7' - 0"	0' - 1 3/4"			NO DOORS	3	HM	H-8	J-8	CASED OPENING
LEVEL 1000 (856.73')	1044	1044	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1045A	1045A	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1045B	1045B	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1046	1046	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1046M	1046M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1047A	1047	6' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	1	HM	H-4	J-4	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1000 (856.73')	1047B		8' - 0"	3'-10"	0' - 0 1/2"	F		STEEL		STEEL	H-6	J-6	COILING COUNTER SHUTTER, SILL DETAIL S-6
LEVEL 1000 (856.73')	1048	1048	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1049	1049	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1049A	1049A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1050	1050	3' - 0"	7' - 0"	0' - 1 3/4"	C		HM	3	HM	H-11	J-11	
LEVEL 1000 (856.73')	1051	1051	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1051A	1051A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1052A	1052A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1052B	1052B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1052C	1052	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1052D	1052	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1053	1053	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1054	1054	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1054M	1054M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1055	1055	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1055B	1055B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1055C	1055C	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1055M	1055M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1056	1056	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1058	1058	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1000 (856.73')	1060A	1060	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1060B	1060	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1060M	1060M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1061	1061	3' - 4"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1062	1062	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1062A	1062A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1062B	1062B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1000 (856.73')	1062C	1062	6' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	6	HM	H-7	J-7	PAIR OF DOORS
LEVEL 1000 (856.73')	1062D	1062	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	1063	1063	6' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	1	HM	H-4	J-4	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1000 (856.73')	1063M	1063M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	S2-1000	S2	3' - 0"	7' - 0"	0' - 1 3/4"	C	90 MIN	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1000 (856.73')	S3-1000	S3	6' - 0"	7' - 0"	0' - 1 3/4"	C	45 MIN	WOOD / GLASS	1	HM	H-4	J-4	PAIR OF DOORS, MAGNETIC HOLD OPEN DEVICE
LEVEL 1000 (856.73')	S3-1000A	S3	6' - 0"	7' - 0"		A		ALUM / GLASS	W18	ALUM	H-1	J-1	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1100A		3' - 4"	7' - 0"	0' - 1 3/4"	D	3HR	HM	2	HM	H-5 & A1/A610	J-3	MAGNETIC HOLD OPEN DEVICE, JAMB OPENING IS EXISTING
LEVEL 1100 (871.16')	1100B		6' - 8"	7' - 0"	0' - 1 3/4"	D	3-HR	HM	1	HM	H5 & A1/A610	J-3 & C1/A603	PAIR OF DOORS, MAGNETIC HOLD OPEN DEVICE, JAMB OPENING IS EXISTING
LEVEL 1100 (871.16')	1100C		6' - 0"	8' - 0"		A		ALUM / GLASS	W12	ALUM	H-1	J-1	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1100D		6' - 0"	8' - 0"		A		ALUM / GLASS	W12	ALUM	H-1	J-1	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1100E	1100A	3' - 0"	8' - 0"		A		ALUM / GLASS	W10	ALUM	H-1	J-1	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1100F		19' - 4"	12' - 0"	0' - 11 1/2"	J	3-HR				A4/A614	D2, D3 & D4/A606	3 HOUR RATED ACCORDIAN DOOR WITH SWINGING EGRESS DOOR
LEVEL 1100 (871.16')	1100G		1' - 8"	11' - 10"	0' - 1 3/4"	D	3-HR	HM	3	HM	H-5	J-5	
LEVEL 1100 (871.16')	1100H		1' - 8"	12' - 0"	0' - 1 3/4"	B		WOOD	2	HM		D3/A606	PROVIDE SPRING TYPE HINGE (STANLEY #2060R) AND MAGNETIC CATCHES
LEVEL 1100 (871.16')	1140	1140	3' - 0"	7' - 0"	0' - 1 3/4"	D	3HR	HM	2	HM	H-5	J-5	
LEVEL 1100 (871.16')	1141M	1141M	3' - 0"	7' - 0"	0' - 1 3/4"	D	3HR	HM	2	HM	A4/A614	B1/A603	
LEVEL 1100 (871.16')	1142	1142	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1143	1143	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1143A	1143A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1143B	1143	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1143M	1143M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1144	1144	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1144M	1144M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-9	J-9	
LEVEL 1100 (871.16')	1145	1145	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1145A	1143A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1145B	1145	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1146	1146	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1146A	1146A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1146B	1146B	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1146C	1146C	3' - 0"	7' - 0"	0' - 1 3/4"	B	ST	WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1146D	1146	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1147	1147	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1147A	1147A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1148	1148	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1148A	1148A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1148B	1148B	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1148C	1148	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1148M	1148M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1149	1149	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1149A	1149A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1149B	1149	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1149M	1149M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1150	1150	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1150A	1148A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1150B	1148B	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1150C	1150	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1151	1151	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1151A	1149A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1151B	1151	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1152	1152	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1152A	1152A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1152B	1152B	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1152C	1152	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1152M	1152M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1154	1154	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1154A	1152A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1154B	1152B	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1154C	1154	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1156	1156	3' - 4"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1157A	1157A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1157B	1157B	3' - 0"	7' - 0"	0' - 1 3/4"	D		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1157C	1157C	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1157D	1157C	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	2	HM	H-2	J-2	
LEVEL 1100 (871.16')	1158	1158	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1158A	1158A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1158B	1158B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1158C	1158C	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1159	1159	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1100 (871.16')	1160	1160	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1160A	1160A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1160B	1160	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1160M	1160M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1162	1162	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1162A	1160A	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1162B	1162	3' - 0"	7' - 0"	0' - 1 3/4"	C	ST	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1164	1164	3' - 0"	7' - 0"		A		ALUM / GLASS	WI -5	ALUM	H-13	J-13	
LEVEL 1100 (871.16')	1164M	1164M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1170A	1170	6' - 0"	8' - 0"		A		ALUM / GLASS	W1	ALUM	H-1	J-1	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1170B	1170	6' - 0"	8' - 0"		A		ALUM / GLASS	W1	ALUM	H-1	J-1	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1170C	1170	6' - 0"	8' - 0"		A		ALUM / GLASS	WI - 6	ALUM	H-13	J-13	PAIR OF DOORS, INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1170D	1170	6' - 0"	8' - 0"		A		ALUM / GLASS	WI - 6	ALUM	H-13	J-13	PAIR OF DOORS
LEVEL 1100 (871.16')	1171	1170	3' - 0"	7' - 10"		A		ALUM / GLASS	WI -5	ALUM	H-13	J-13	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1173	1173	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1173A	1173	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	2	HM	H-2	J-2	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1174M	1174M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1175	1175	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1176	1176	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1178	1178	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1179	1179	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1180A	1180	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1180B	1180	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1181	1181	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1182	1182	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1183	1183	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1184	1184	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1184A	1184A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1184B	1184	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1184C	1184C	2' - 6"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1185	1185	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1186	1186	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1186A	1186A	3' - 0"	7' - 0"	0' - 1 3/4"	H		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1186B	1186B	3' - 0"	7' - 0"	0' - 1 3/4"	H		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1186C	1186C	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1186D	1186D	3' - 0"	7' - 0"	0' - 1 3/4"	H		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1186E	1186A	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	2	HM	H-2	J-2	
LEVEL 1100 (871.16')	1186F	1186	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1187	1187	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1188A	1188	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1100 (871.16')	1188B	1188	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1189	1189	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	1190A	1190	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	

DOOR SCHEDULE

	DOOR	ROOM	DOOR						FRAME		DETAILS		
FLOOR	NO.	NO.	WIDTH	HEIGHT	THK.	TYPE	RATING	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	REMARKS
LEVEL 1100 (871.16')	1190B	1190	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1191	1191	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-11	J-11	
LEVEL 1100 (871.16')	1192	1192	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1193	1170	3' - 0"	7' - 10"		A		ALUM / GLASS	WI -5	ALUM	H-13	J-13	INSTALL CARD READER SYSTEM
LEVEL 1100 (871.16')	1194A	1194	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	1194B	1194	3' - 0"	7' - 0"	0' - 1 3/4"	C							
LEVEL 1100 (871.16')	1195	1195	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1100 (871.16')	S2-1100	S2	3' - 0"	7' - 0"	0' - 1 3/4"	C	90 MIN	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	S3-1100	S3	6' - 0"	7' - 0"	0' - 1 3/4"	C	45 MIN	WOOD / GLASS	1	HM	H-4	J-4	PAIR OF DOORS, MAGNETIC HOLD OPEN DEVICE
LEVEL 1100 (871.16')	S4-1100	S4	3' - 0"	7' - 0"	0' - 1 3/4"	C	45 MIN	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1100 (871.16')	S4-1100A	S4	3' - 0"	7' - 0"	0' - 1 3/4"	D		HM	2	HM	H-2	J-2	
LEVEL 1200 (887.16')	1200	1200	3' - 0"	7' - 0"		A		ALUM / GLASS	WI - 1	ALUM	H-13	H-12	
LEVEL 1200 (887.16')	1200A	1200A	3' - 0"	7' - 1"		A		ALUM / GLASS	W1 - 2	ALUM	H-10	J-10 & J-13	
LEVEL 1200 (887.16')	1200B	1200B	3' - 0"	7' - 0"		A		ALUM / GLASS	WI - 2	ALUM	H-10	J-10 & J-13	
LEVEL 1200 (887.16')	1200C	1200C	3' - 0"	7' - 0"		A		ALUM / GLASS	WI - 2	ALUM	H-10	J-10 - J-13	
LEVEL 1200 (887.16')	1200D	1200D	3' - 0"	7' - 0"		A		ALUM / GLASS	WI - 2	ALUM	H-10	J-10 & J-13	
LEVEL 1200 (887.16')	1200F	1200	3' - 0"	7' - 0"		A		ALUM / GLASS	WI - 1	ALUM	H-13	J-12	
LEVEL 1200 (887.16')	1200G	1200	3' - 0"	7' - 0"		A		ALUM / GLASS	W7	ALUM	H-1	J-1 & J-15	
LEVEL 1200 (887.16')	1200H	1200	3' - 0"	7' - 0"		A		ALUM / GLASS	W7	ALUM	H-1	J-1 & J-15	
LEVEL 1200 (887.16')	1200J		3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1200M	1200M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1201	1201	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1202	1202	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1203	1203	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1203M	1203M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1204M	1204M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-9	J-9	
LEVEL 1200 (887.16')	1205	1205	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1206	1206	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1206A	1206A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1207	1207	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1207M	1207M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1208A	1208	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1208B	1208	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1208M	1208M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1209	1209	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1209M	1209M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1210	1210	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1210A	1210A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1211	1211	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1212A	1212A	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-4	
LEVEL 1200 (887.16')	1212B	1212B	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1212C	1212C	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1212D	1212C	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1212E	1212B	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1213	1213	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1213M	1213M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1214	1214	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1214A	1214A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1215	1215	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1216A	1216A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1216B	1216B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1220	1220	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1221	1221	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1222	1222	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1223	1223	3' - 4"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1224	1224	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1225	1225	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1226	1226	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1226A	1226A	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1226B	1226B	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1227	1227	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-11	J-11	
LEVEL 1200 (887.16')	1228M	1228M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1229	1229	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1230	1230	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1230M	1230M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1231	1231	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1231M	1231M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1232	1232	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1233	1233	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1234	1234	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1234M	1234M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1235	1235	3' - 0"	7' - 0"	0' - 1 3/4"	C		WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1235M	1235M	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1237	1237	3' - 0"	7' - 0"	0' - 1 3/4"	B		HM	3	HM	H-7	J-7	
LEVEL 1200 (887.16')	1239	1239	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1240	1240	3' - 0"	7' - 0"	0' - 1 3/4"	B		WOOD	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	1241A	1241	19' - 4"	12' - 0"	0' - 11 1/2"	J	3-HR				A4/A614	D2, D3 & D4/A606	ACCORDIAN DOOR WITH SWINGING EGRESS DOOR
LEVEL 1200 (887.16')	1241B	1238	1' - 8"	11' - 10"	0' - 1 3/4"	D	3-HR	HM	3	HM	H-5	J-5	
LEVEL 1200 (887.16')	1241C		1' - 8"	12' - 0"	0' - 1 3/4"	B		WOOD	2	HM		D3/A606	PROVIDE SPRING TYPE HINGE (STANLEY #2060R) AND MAGNETIC CATCHES
LEVEL 1200 (887.16')	S2-1200	S2	3' - 0"	7' - 0"	0' - 1 3/4"	C	90 MIN	WOOD / GLASS	2	HM	H-4	J-4	
LEVEL 1200 (887.16')	S3-1200	S3	6' - 0"	7' - 0"	0' - 1 3/4"	C	45 MIN	WOOD / GLASS	2	HM	H-4	J-4	PAIR OF DOORS, MAGNETIC HOLD OPEN DEVICE
LEVEL 1200 (887.16')	S4-1200	S4	3' - 0"	7' - 0"	0' - 1 3/4"	C	45 MIN	WOOD / GLASS	2	HM	H-4	J-4	

GLASS TYPE SCHEDULE

G1T	1-INCH INSULATED GLASS FULLY TEMPERED, WITH LOW-E COATING
G1	1-INCH INSULATED GLASS, WITH LOW-E COATING
G2T	1/4-INCH GLASS FULLY TEMPERED (INTERIOR)
G2	1/4-INCH GLASS (INTERIOR)
G3	1/2-INCH LAMINATED GLASS (INTERIOR)
G3T	1/2-INCH LAMINATED GLASS TEMPERED (INTERIOR)

FOR ADDITIONAL GLAZING INFORMATION, SEE SPECIFICATIONS 08 80 00.

DOOR SCHEDULE GENERAL NOTES:

1. ALL HM EXTERIOR DOORS AND FRAMES SHALL BE GALVANIZED.
2. SEE SPECIFICATION 08 71 00 FOR DESCRIPTION OF EACH DOOR HARDWARE SET.
3. SMOKE TIGHT DOORS ARE INDICATED WITH "ST" IN THE RATINGS COLUMN.

B3 / A800
FRAME TYPES
1/4" = 1'-0"

A3 / A800
DOOR TYPES
1/4" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

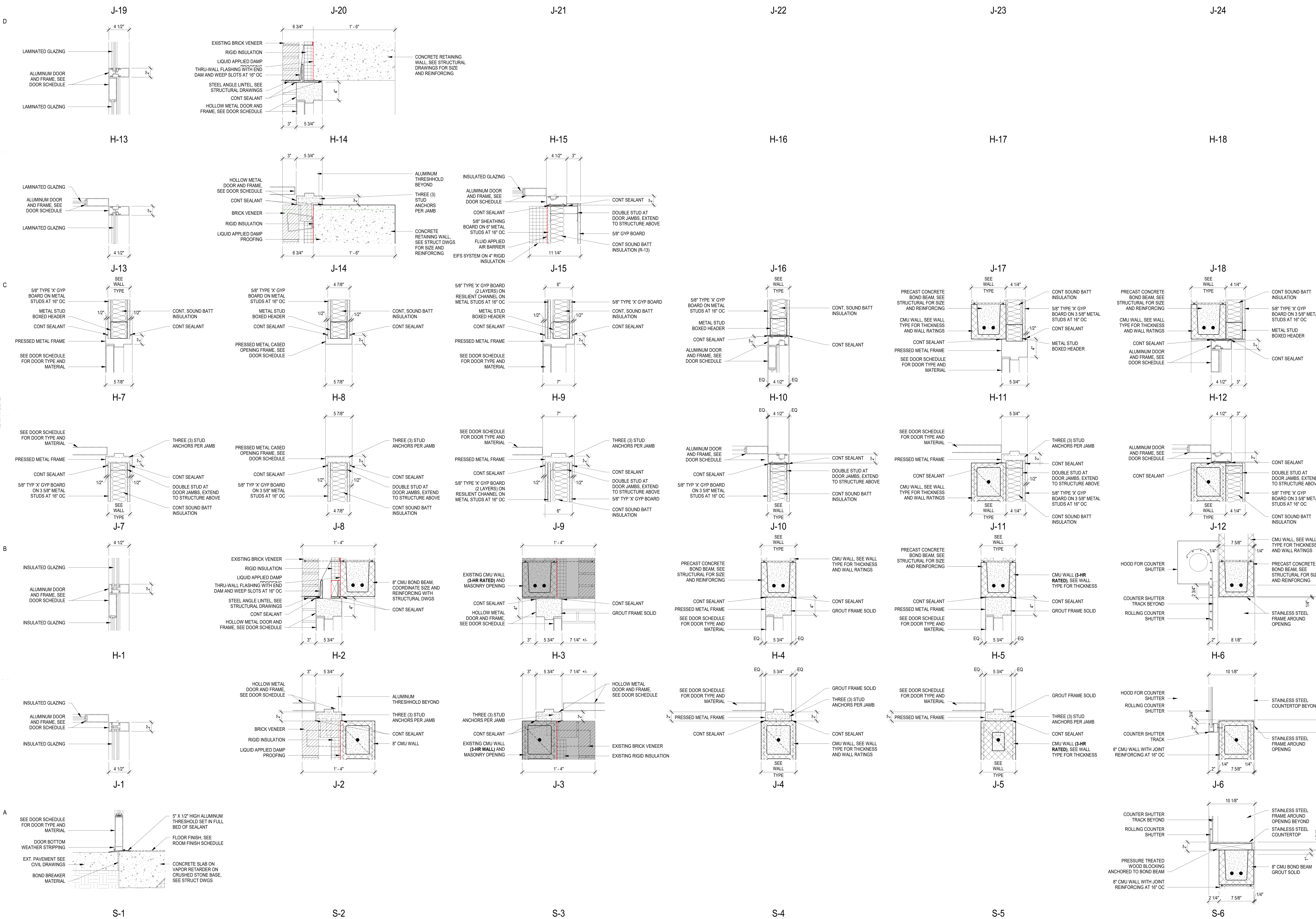
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
DOOR SCHEDULE

SHEET NO.
PROJ. NO. 020420.00

A800



A1 / A810 **DOOR DETAILS**
1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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C	06/01/22	GMP SET	MLC

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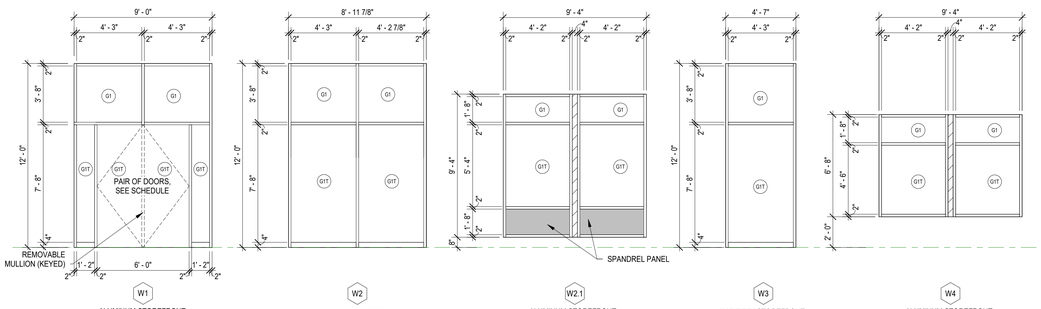
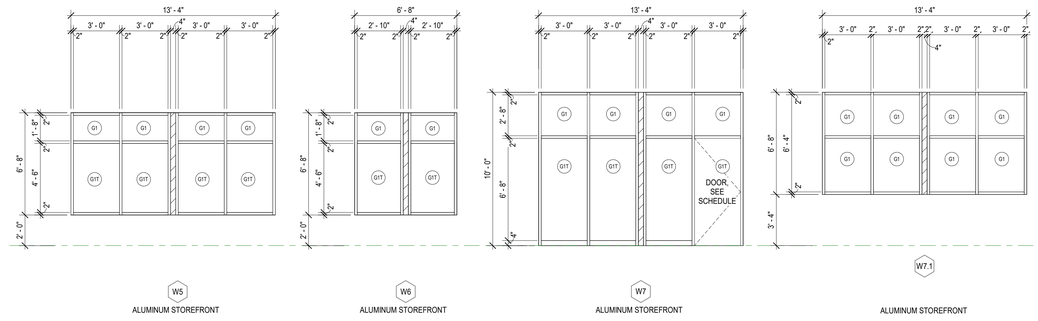
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

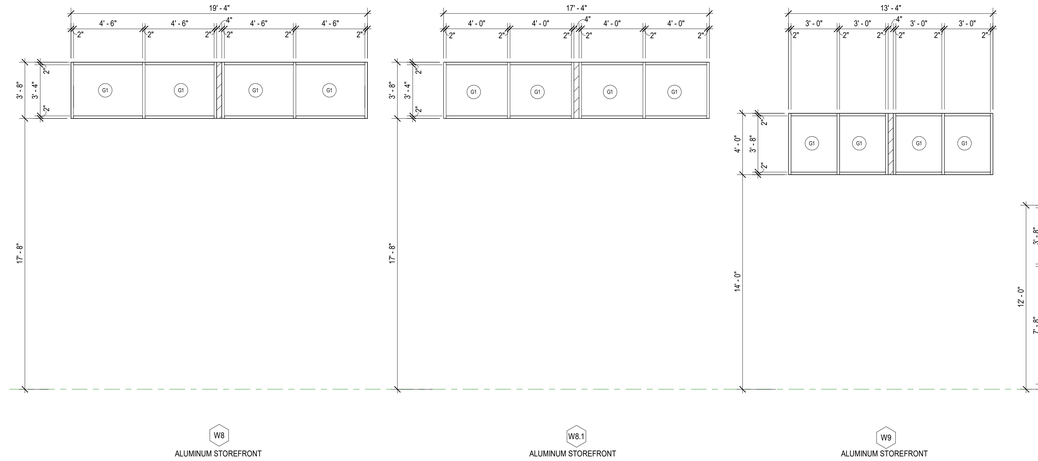
SHEET TITLE:
DOOR DETAILS

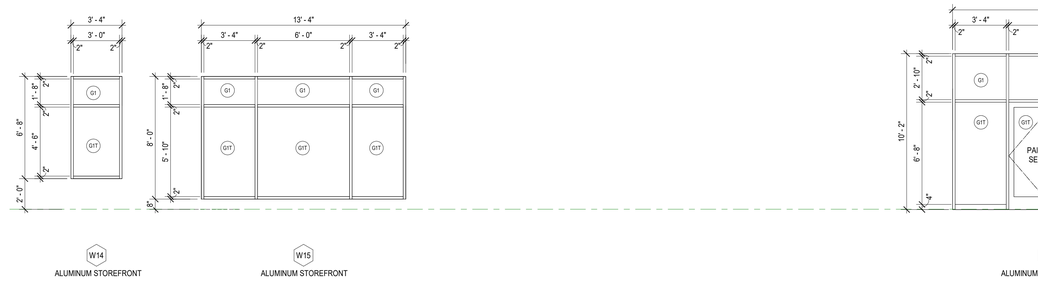
SHEET NO.
PROJ. NO. 020420.00

A810









EXTERIOR WINDOW SCHEDULE

WINDOW TYPE	LEVEL	FRAME MATERIAL	GLASS TYPE	DETAILS			REMARKS
				HEAD	JAMB	SILL	
W1	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	A3/A616	A2 & B3/A607	A3/A616	-
W2	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	A2/A616	A2, B2 & B3/A607	WINDOW DETAIL S-1	-
W2	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	B2/A616	B3 & C2/A607	A2/A616	-
W2.1	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	A2/A615	A2 & A4/A354	A3/A615	-
W3	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	A2/A616	A2, B2 & B3/A607	WINDOW DETAIL S-1	-
W3	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	B2/A616	B3 & C3/A607	A2/A616	-
W4	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C2/A615	D4 & D5/A354	B2/A615	-
W5	LEVEL 1000	ALUMINUM STOREFRONT	G1 & G1T	B4/A613	D3 & D4/A601	A4/A613	-
W5	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	D4/A613	D3 & D4/A601	C4/A613	-
W6	LEVEL 1000 *	ALUMINUM STOREFRONT	G1 & G1T	D1/A611	C1, C4 & D1/A601	B1/A611	* AT NORTH ELEVATION
W6	LEVEL 1100 *	ALUMINUM STOREFRONT	G1 & G1T	D2/A611	D2 & D3/A603	B2/A611	* AT NORTH ELEVATION
W6	LEVEL 1200 *	ALUMINUM STOREFRONT	G1 & G1T	D3/A611	D2 & D3/A603	B3/A611	* AT NORTH ELEVATION
W6	LEVEL 1100 **	ALUMINUM STOREFRONT	G1 & G1T	B1/A615	D1A & D2/A354	A1/A615	** AT COURTYARD
W6	LEVEL 1200 **	ALUMINUM STOREFRONT	G1 & G1T	D1/A615	D1A & D2/A354	C1/A615	** AT COURTYARD
W6	***	ALUMINUM STOREFRONT	G1 & G1T	WINDOW DETAIL H-2	WINDOW DETAIL J-2	WINDOW DETAIL S-1	*** AT BRICK COLOR #2 (AREA C), 6" FRAME
W6	LEVEL 1100 ****	ALUMINUM STOREFRONT	G1 & G1T	A2/A618	D3/A603	C1/A618	**** AT WORKROOM #1158 (AREA C)
W7	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C2/A613	A4 & A5/A605	A2/A613	-
W7.1	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C2/A613	A5/A605	A2/A613	-
W8	CLERESTORY	ALUMINUM STOREFRONT	G1	C1/A617 SIM	A3 & D3/A608	A1/A617 SIM	-
W8.1	CLERESTORY	ALUMINUM STOREFRONT	G1	C1/A617	A3/ B3, C3 & D3/A608	A1/A617	-
W9	CLERESTORY	ALUMINUM STOREFRONT	G1	D3/A612	D2 & D3/A604	C2/A613	-
W10	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	A3/A619	B1 & C1/A606	WINDOW DETAIL S-1	-
W11	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	B3/A619	C1 & D1/A607	A3/A619	-
W12	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	C5/A612	A4/A603 & D1/A606	WINDOW DETAIL S-1	-
W13	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C5/A612	A4/A603 SIM & D1/A606 SIM	C4/A612	-
W14	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	C2/A618	WINDOW DETAIL J-10	A2/A618	6" FRAME
W14	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C1/A618	WINDOW DETAIL J-10	D2/A618	6" FRAME
W15	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	C2/A619 SIM	B4 & C2/A603	A2/A610	-
W15	LEVEL 1100	ALUMINUM STOREFRONT	G1 & G1T	D3/A612	C2 & C4/A603	C2/A619	-
W15	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	C2/A619	B4 & C2/A603	B2/A619	-
W15	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	D3/A612 SIM	C2 & C4/A603	D2/A612	-
W16							NOT USED
W17							NOT USED
W18	LEVEL 1000	ALUMINUM STOREFRONT	G1 & G1T	A4/A614	C3 & C4/A602	WINDOW DETAIL S-1	-
W19	LEVEL 1100	ALUMINUM STOREFRONT	G1	B4/A610	B2/A603 & WINDOW DETAIL J-11	A4/A610	6" FRAME
W19	LEVEL 1200	ALUMINUM STOREFRONT	G1	D4/A610	C2 & C4/A604 & WINDOW DETAIL J-11	C4/A610	6" FRAME
W20	LEVEL 1000	ALUMINUM STOREFRONT	G1	B2/A612	A3 & B2/A601	A2/A612	-
W21	LEVEL 1200	ALUMINUM STOREFRONT	G1 & G1T	WINDOW DETAIL H-2	WINDOW DETAIL J-2	WINDOW DETAIL S-2	6" FRAME

NOTES:
1. ALL EXTERIOR HOLLOW METAL FRAMES ARE TO BE GALVANIZED.

G# GLASS

SPANDREL GLASS

BRAKE METAL FILLER PANEL (IN THICKNESS RECOMMENDED BY MANUFACTURER), PREFINISHED TO MATCH WINDOW SYSTEM, SEE J-7 (FOR 4 1/2" FRAME) OR J-11 (FOR 6" FRAME) IN "WINDOW DETAILS" AT A1/A830

GLASS TYPE SCHEDULE

- G1T 1-INCH INSULATED GLASS FULLY TEMPERED, WITH LOW-E COATING
- G1 1-INCH INSULATED GLASS, WITH LOW-E COATING
- G2T 1/4-INCH GLASS FULLY TEMPERED (INTERIOR)
- G2 1/4-INCH GLASS (INTERIOR)
- G3 1/2-INCH LAMINATED GLASS (INTERIOR)
- G3T 1/2-INCH LAMINATED GLASS TEMPERED (INTERIOR)

FOR ADDITIONAL GLAZING INFORMATION, SEE SPECIFICATIONS 08 80 00.

NOTE: ALL WINDOWS TO BE ALUMINUM STOREFRONT, U.N.O.

A1 / A821 **EXTERIOR WINDOW TYPES**
1/4" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: PS

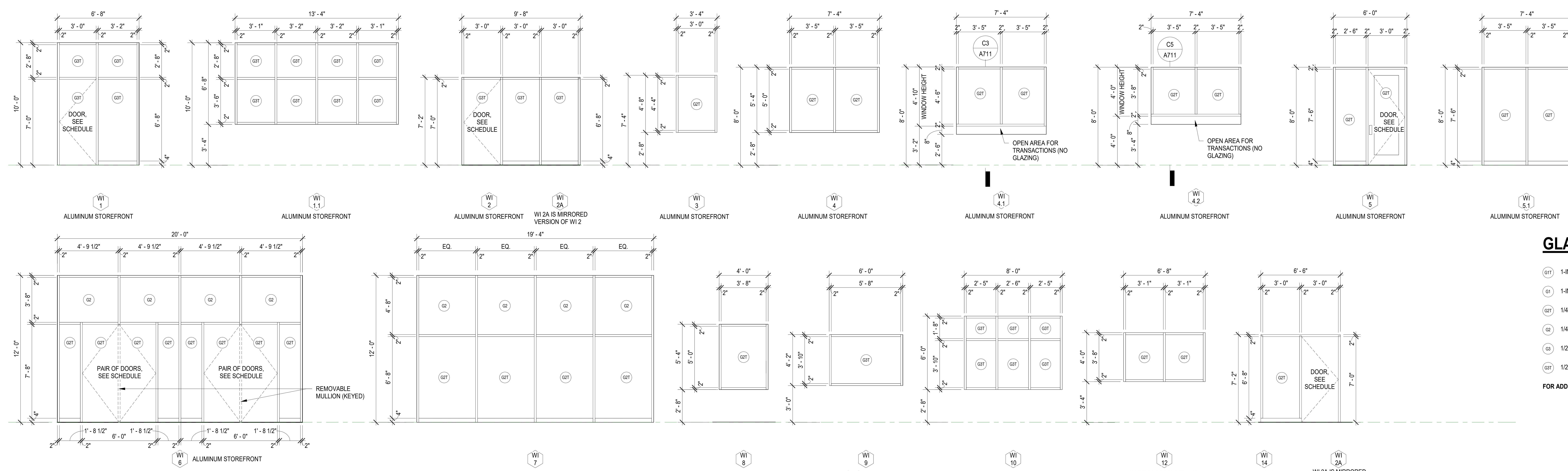
SHEET TITLE:
EXTERIOR WINDOW ELEVATIONS AND SCHEDULE

SHEET NO. A821

PROJ. NO. 020420.00

INTERIOR WINDOW SCHEDULE

WINDOW TYPE	LEVEL	FRAME MATERIAL	GLASS TYPE	DETAILS			REMARKS
				HEAD	JAMB	SILL	
WI 1	LEVEL 1200	ALUMINUM STOREFRONT	G3 & G3T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-7	-
WI 1.1	LEVEL 1200	ALUMINUM STOREFRONT	G3 & G3T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-5	-
WI 2	LEVEL 1200	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-7	-
WI 2A	LEVEL 1200	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-7	-
WI 3	LEVEL 1000	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-3	-
WI 3	LEVEL 1000	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-4	WINDOW DETAIL J-4	WINDOW DETAIL S-4	-
WI 3	LEVEL 1000	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-5	
WI 4	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-5	-
WI 4.1	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-5	SEE SECTION AT C3/A711 FOR ADDITIONAL INFORMATION
WI 4.2	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-5	SEE SECTION AT C5/A711 FOR ADDITIONAL INFORMATION
WI 5	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-7	-
WI 5.1	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-5	WINDOW DETAIL J-5	WINDOW DETAIL S-7	-
WI 6	LEVEL 1100	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-4	WINDOW DETAIL S-7	-
WI 7	LEVEL 1200	ALUMINUM STOREFRONT	G2 & G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-4	WINDOW DETAIL S-7	-
WI 8	LEVEL 1100	ALUMINUM STOREFRONT	G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-3	-
WI 9	LEVEL 1200	HOLLOW METAL	G3 & G3T	WINDOW DETAIL H-6	WINDOW DETAIL J-6	WINDOW DETAIL S-6	-
WI 10	LEVEL 1000	ALUMINUM STOREFRONT	G3 & G3T	WINDOW DETAIL H-4	WINDOW DETAIL J-4	WINDOW DETAIL S-4	-
WI 11							NOT USED
WI 12	LEVEL 1200	ALUMINUM STOREFRONT	G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-3	-
WI 13							NOT USED
WI 14	LEVEL 1200	ALUMINUM STOREFRONT	G2T	WINDOW DETAIL H-3	WINDOW DETAIL J-3	WINDOW DETAIL S-7	-



A1 A822 **INTERIOR WINDOW TYPES**
1/4" = 1'-0"

GLASS TYPE SCHEDULE

- G1T 1-INCH INSULATED GLASS FULLY TEMPERED, WITH LOW-E COATING
- G1 1-INCH INSULATED GLASS, WITH LOW-E COATING
- G2T 1/4-INCH GLASS FULLY TEMPERED (INTERIOR)
- G2 1/4-INCH GLASS (INTERIOR)
- G3 1/2-INCH LAMINATED GLASS (INTERIOR)
- G3T 1/2-INCH LAMINATED GLASS TEMPERED (INTERIOR)

FOR ADDITIONAL GLAZING INFORMATION, SEE SPECIFICATIONS 08 80 00.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

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GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
INTERIOR WINDOW ELEVATIONS AND SCHEDULE

SHEET NO. A822
PROJ. NO. 020420.00

H-7

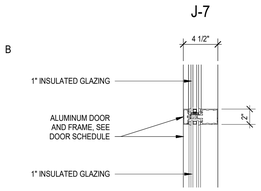
H-8

H-9

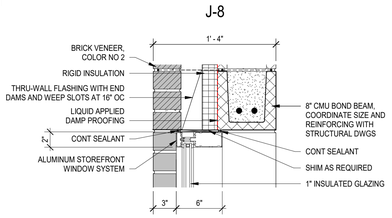
H-10

H-11

H-12



J-7



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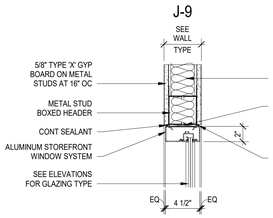

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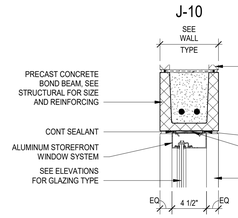
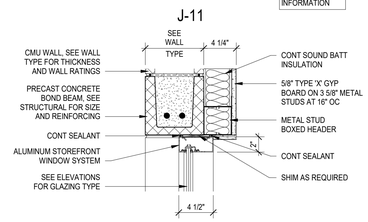
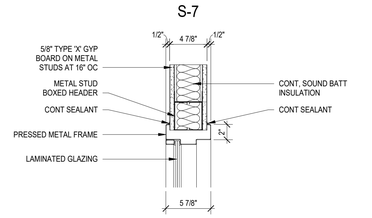


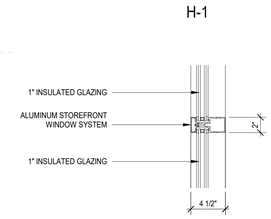
J-10



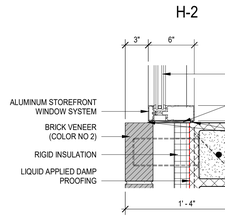
J-11



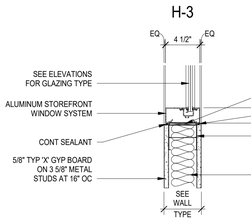
S-7



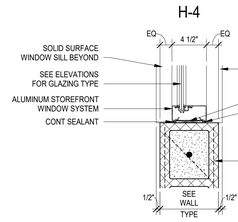
H-1



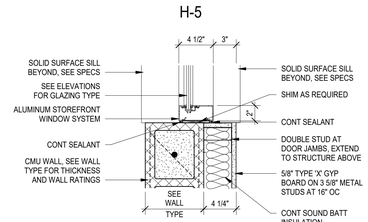
H-2



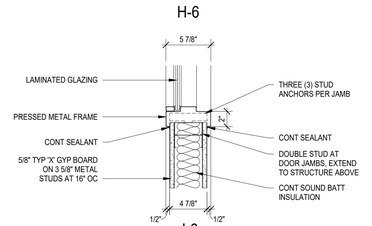
H-3



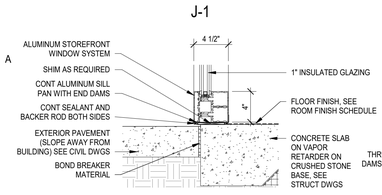
H-4



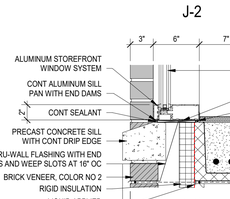
H-5



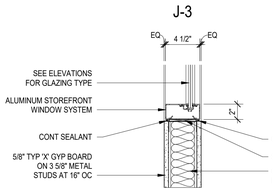
H-6



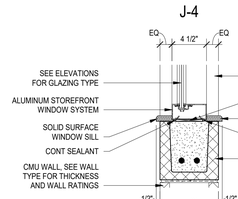
J-1



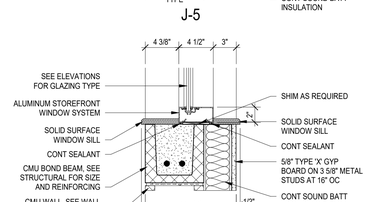
J-2



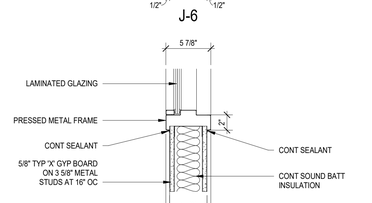
J-3



J-4



J-5



S-6

S-5

1 A830 **WINDOW DETAILS**
1 1/2" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
WINDOW DETAILS

SHEET NO. A830

PROJ. NO. 020420.00

ROOM FINISH SCHEDULE 1000 LEVEL

		FLOOR		WALLS				CEILING		MILLWORK		
ROOM NO.	ROOM NAME	FINISH	BASE	N	E	S	W	MATERIAL	FINISH	COUNTERT OPS	CABINETS	COMMENTS
LEVEL 1000 (856.73')												
1040	CORRIDOR	TZ-1-3	RB-1	P-1/2	P-1/2	P-1-3/PWT-3/4/5	P-1/2		P-3			
1040A	COMMONS	TZ-1-3	RB-1	P-1	P-1	P-1	P-3		MWC-1	SS-1		
1040B	COMMONS	TZ-1-3	RB-1	P-1	P-3	P-1	P-1		MWC-1	SS-1		
1041	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1041M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1042	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1042M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1043	IT STORAGE	SC	RB-1	P-1	P-1	P-1	P-1				PL-4	
1044	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1045A	NW ADMIN	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1045B	TECH OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1046	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1046M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1047	IT REPAIR	SC	RB-1	P-1	P-1	P-1	P-1					
1047A	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1048	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1049	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1049A	DATA	SC	RB-1	P-1	P-1	P-1	P-1					
1050	AP OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1051	OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1051A	STORAGE	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1052	LAB (STEM,CATE)	SC	RB-1	P-1	P-1	P-1	P-1/2			PL-1	PL-2	
1052A	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1052B	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1053	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1054	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1054M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1055	WORKROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1055B	TOIL	EPX-1/TR-2	EPXB-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1					2
1055C	TOIL	EPX-1/TR-2	EPXB-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1					2
1055M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1056	SRO	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1057	MEN	EPX-1/TR-2	EPXB-1	P-1/2	P-1	P-1/2	P-1					1
1058	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1059	WOMEN	EPX-1/TR-2	EPXB-1	P-1/2	P-1	P-1/2	P-1					1
1060	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1060M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1061	CUST	SC	RB-1	P-1	P-1	P-1	P-1					
1062	LIFE SKILLS	SV-1	SV-1	P-1	P-1	P-2	P-1			PL-1	PL-2	7
1062A	TOIL	EPX-1/TR-2	EPXB-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1	PWT-2/P-1					2
1062B	STOR	SV-1	RB-1	P-1	P-1	P-1	P-1					
1062C	BED CLOSET	SV-1	RB-1	P-1	P-1	P-1	P-1					
1063	IT STOR DISTRICT	SC	RB-1	P-1	P-1	P-1	P-1					
1063M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
S1	STAIR 1	RBST-1/2	-	P-1	P-1	P-1	P-1		MWC-1			9
S2	STAIR 2	RBST-1	-	P-1	P-1	P-1	P-1					8
S3	STAIR 3	RBST-1	-	P-1	P-1	P-1	P-1					8
SE	ELEV											

ROOM FINISH SCHEDULE 1100 LEVEL

		FLOOR		WALLS				CEILING		MILLWORK		
ROOM NO.	ROOM NAME	FINISH	BASE	N	E	S	W	MATERIAL	FINISH	COUNTERT OPS	CABINETS	COMMENTS
LEVEL 1100 (871.16')												
010A	EXIT ACCESS STAIR											
1100	CORRIDOR	TZ-1-3/RT-1/2/RBST-1/2	RB-1	P-1-3	P-1-3	P-1-3	P-1-3		P-2/3, MWC-1		PL-4	
1100A	CORRIDOR	TZ-1-3	RB-1	P-1	P-1/3/PWT-3/4/5	P-1	P-1/3/PWT-3/4/5		P-2/3			
1117	CENTRAL LOBBY											
1117A	CONNECTOR											
1140	CONF.	CPT-2	RB-1	P-1	P-1	P-1	P-1					
1141M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1141N	CHEM LAB	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			TBD	PL	3,6
1142	OFFICE	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1143	CHEM LAB	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			EPOXY-1	WD	
1143A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1143M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1144	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1144M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1145	CHEM LAB	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			EPOXY-1	WD	
1146	CEM LAB	VCT-1-3	RB-1	P-1	P-1	P-1	P-1/2			EPOXY-1	WD	
1146A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1146B	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1146C	CHEM STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1147	DATA	SC	RB-1	P-1	P-1	P-1	P-1					
1147A	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1148	CHEM LAB	VCT-1-3	RB-1	P-1	P-1	P-2	P-1			EPOXY-1	WD	
1148A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1148B	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1148M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1149	BIO LAB	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			EPOXY-1	WD	
1149A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1149M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1150	CHEM LAB	VCT-1-3	RB-1	P-1	P-1	P-2	P-1			EPOXY-1	WD	
1151	BIO LAB	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			EPOXY-1	WD	
1152	CHEM LAB	VCT-1-3	RB-1	P-1	P-1/2	P-1	P-1			EPOXY-1	WD	
1152A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1152B	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1152M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1154	CHEM LAB	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			EPOXY-1	WD	
1155A	WOMEN	EPX-1/TR-2	EPXB-1	P-1	P-1/3	P-1	P-1/3					1
1155B	MEN	EPX-1/TR-2	EPXB-1	P-1	P-1/2	P-1	P-1/2					1
1156	CUST	SC	RB-1	P-1	P-1	P-1	P-1					
1157A	STORAGE	SC	RB-1	P-1	P-1	P-1	P-1					
1157B	DATA	SC	RB-1	P-1	P-1	P-1	P-1					
1157C	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1158	WORK ROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1158A	TOILET	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1158B	TOILET	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1158C	STOR	VCT-1	RB-1	P-1	P-1	P-1	P-1					
1159	OFFICE	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1160	BIO LAB	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			EPOXY-1	WD	
1160A	PREP	VCT-1	RB-1	P-1	P-1	P-1	P-1			EPOXY-1	PL	
1160M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1162	BIO LAB	VCT-1-4	RB-1	P-1	P-2	P-1	P-1			EPOXY-1	WD	
1164	STORE	CPT-4	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1164M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1170	VESTIBULE	TZ-1-3/WCPT-1	TZB-1	P-1	P-1	P-1	P-1		P-3	SS-2/PL-3	PL-4	
1171	WAITING	CPT-1	RB-1	P-1	P-1	P-1	P-2					
1172	ATTEND.	CPT-1	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1173	RECEPTION	CPT-1	RB-1	P-1	P-1/PWT-3/4/5	P-1	P-1/4			SS-2/PL-3	PL-4	
1174M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1175	OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1176	OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1177	BKKPR	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1178	A.P.	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1179	VAULT	SC	RB-1	P-1	P-1	P-1	P-1					
1180	CONFERENCE	CPT-2	RB-1	P-1	P-1	P-1	P-3					
1181	TOIL	PT-1	PTB-1	PWT-1/P	PWT-1/P	PWT-1/P	PWT-1/P					2
1182	ADMIN. ASST.	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1183	TOIL	PT-1	PTB-1	PWT-1/P	PWT-1/P	PWT-1/P	PWT-1/P					2
1184	PRINC	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1184A	TOIL	PT-1	PTB-1	PWT-1/P	PWT-1/P	PWT-1/P	PWT-1/P					2
1184C	STOR	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1185	OFF	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1186	NURSE	SV-2	SV-2	P-1	P-1	P-1	P-1			PL-3	PL-4	7
1186A	ISO ROOM	SV-2	SV-2	P-1	P-1	P-1	P-1			PL-3	PL-4	7
1186B	STOR. W&D	SV-2	SV-2	P-1	P-1	P-1	P-1			PL-3	PL-4	7
1186C	TOIL/ SHW	EPX-1/TR-2	EPXB-1	P-1	P-1	P-1	P-1					7
1186D	OFFICE	SV-2	SV-2	P-1	P-1	P-1	P-1			PL-3	PL-4	7
1187	MAIL ROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1188	CONF.	CPT-2	RB-1	P-1	P-1	P-2	P-1					
1189	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1190	SRO	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1191	TOIL	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1192	FUTURE GUIDANCE	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1193	OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1194	OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1					
1195	STOR											
S4	STAIR 4	RBST-1	-	P-1	P-1	P-1	P-1					8

ROOM FINISH SCHEDULE 1200 LEVEL

		FLOOR		WALLS				CEILING		MILLWORK		
ROOM NO.	ROOM NAME	FINISH	BASE	N	E	S	W	MATERIAL	FINISH	COUNTERT OPS	CABINETS	COMMENTS
LEVEL 1200 (887.16')												
1200	MEDIA CENTER	CPT-3,4,5	RB-1	P-1	P-1	P-1	P-1		P-6, BLD-1	SS-1/PL-5	PL-4	10
1200A	CONF.	CPT-5	RB-1	P-1	P-1	P-1	P-1					
1200B	CONF	CPT-5	RB-1	P-1	P-1	P-1	P-1					
1200C	GROUP	CPT-4	RB-1	P-1	P-1	P-1	P-1					10
1200D	GROUP	CPT-4	RB-1	P-1	P-1	P-1	P-1					10
1200M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					10
1201	CLASSROOM/RES	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1202	OFFICE	CPT-4	RB-1	P-1	P-1	P-1	P-1					
1203	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1203M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1204M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1205	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1206	OFFICE	CPT-4	RB-1	P-1	P-1	P-1	P-1					
1206A	MEDIA STOR.	CPT-4	RB-1	P-1	P-1	P-1	P-1					
1207	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1207M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1208	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1208M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1209	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1209M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1210	MEDIA PRODUCTION	VCT-1	RB-1	P-1	P-2	P-1	P-1					
1210A	STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1211	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1212A	TV STUDIO	VCT-1	RB-1/2	P-1	P-1	P-1	P-5					4
1212B	MEDIA CTL	VCT-1	RB-1	P-1	P-1	P-1	P-1					
1212C	SOUND EQUIP.	VCT-1	RB-1	P-1	P-1	P-1	P-1					
1213	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1213M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1214	WORKROOM	VCT-1	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1214A	TOIL	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1215	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1216A	TOIL.	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1216B	TOIL.	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1218	WOMEN	EPX-1/TR-2	EPXB-1	P-1	P-1	P-1	P-1/3					1
1219	MEN	EPX-1/TR-2	EPXB-1	P-1	P-1/2	P-1	P-1					1
1220	DATA	SC	RB-1	P-1	P-1	P-1	P-1					
1221	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1222	OFFICE	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1223	CUST.	SC	RB-1	P-1	P-1	P-1	P-1					
1224	OFF	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1225	OFF	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1226	WORKROOM	SC	RB-1	P-1	P-1	P-1	P-1			PL-3	PL-4	
1226A	MEN	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1226B	WOMEN	EPX-1/TR-2	EPXB-1	PWT-2/P	PWT-2/P	PWT-2/P	PWT-2/P					2
1227	RESOURCE	CPT-3	RB-1	P-1	P-1	P-1	P-1					
1228M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1229	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1230	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1230M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1231	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1231M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1232	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1233	CLASSROOM	VCT-1-3	RB-1	P-1	P-2	P-1	P-1			PL-1	PL-2	
1234	CLASSROOM	VCT-1-3	RB-1	P-1	P-1	P-1	P-2			PL-1	PL-2	
1234M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1235	CLASSROOM	VCT-1-3	RB-1	P-1	P-1/2	P-1	P-1			PL-1	PL-2	
1235M	MECH	SC	RB-1	P-1	P-1	P-1	P-1					
1237	TEMP STOR	SC	RB-1	P-1	P-1	P-1	P-1					
1238	CORRIDOR	TZ-1-3	RB-1	P-1-3	P-1-3	P-1-3/PWT-3/4/5	P-1-3		P-2/3/MWC-1			
1239	DATA	SC	RB-1	P-1	P-1	P-1	P-1					
1240	ELEC	SC	RB-1	P-1	P-1	P-1	P-1					
1241	CORRODOR	TZ-1-3	RB-1	P-1-3	P-1-3/PWT-3/4/5	P-1-3	P-1-3/PWT-3/4/5		P-2/3, MWC-1			

INTERIOR FINISH LEGEND

KEY	MANUFACTURER	PATTERN / ITEM NO	COLOR	SIZE	FINISH/ INSTALLED	NOTES
01 FLOOR						
CPT-1	MILLIKEN	URBAN SKETCH	IRON GREY URS180-118	50 CM X 50 CM	ASHLAR	ADMIN CARPET
CPT-2	MILLIKEN	URBAN PORTRAIT	STEELE SKYE URP19-52	50 CM X 50 CM	ASHLAR	CONFERENCE CARPET
CPT-3	MILLIKEN	CURRENT	STRIKE CUR106	25 CM X 1 M	ASHLAR	MEDIA CENTER CARPET FIELD
CPT-4	MILLIKEN	CURRENT WITH ACCENT	STIKE WITH ELECTRO	25 CM X 1 M	ASHLAR	MEDIA CENTER CARPET BLUE ACCENT
CPT-5	MILLIKEN	CURRENT WITH ACCENT	STRIKE WITH SMOLDER	25 CM X 1 M	ASHLAR	MEDIA CENTER CARPET RED ACCENT
EPX-1	SHERWIN WILLIAMS	CERAMIC CARPET	FOG			TOILETS
PT-1	BEST TILE/CAESAR	STONEWAYS	VELVET	12" X 24"	1/3 OFFSET	MISTY MILES 980.275.1496
RBST-1	MANNINTON	CONNECTSTEP COLORSCAPE SCULPTURED	217 CHARCOAL			FIELD COLOR STAIRS
RBST-2	MANNINGTON	CONNECTSTEP COLORSCAPE SCULPTURED	115 OCEAN BLUE			ACCENT COLOR STAIRS
RT-1	MANNINGTON	COLORSCAPE	217 CHARCOAL	36" X 36"		
RT-2	MANNINGTON	COLORSCAPE	115 OCEAN BLUE	36" X 36"		
SC	SEALED CONCRETE					
SV-1	MANNINGTON	BIOSPEC MD	STONE GRAY 15328	6' 6" WIDE		LIFE SKILLS
SV-2	MANNINGTON	BIOSPEC MD	NEW GLACIER 15364	6' 6" WIDE		NURSE
TZ-1	MASTER TERRAZZO	CUSTOM	FIELD - WHITE			BEN NICHOLSON - 919-608-4897
TZ-2	MASTER TERRAZZO	CUSTOM	ACCENT - BLUE			BEN NICHOLSON - 919-608-4897
TZ-3	MASTER TERRAZZO	CUSTOM	ACCENT - RED			BEN NICHOLSON - 919-608-4897
VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	51904 STERLING	12" X 12"	DIAMOND 10	
VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	51820 MARINA BLUE	12" X 12"	DIAMOND 10	
VCT-3	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	51880 MARASCHINO	12" X 12"	DIAMOND 10	
VCT-4	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	51915 CHARCOAL	12" X 12"	DIAMOND 10	
02 BASE						
PTB-1	BEST TILE/CAESAR	STONEWAYS	SKY	6" X 12" COVE BASE		MISTY MILES 980.275.1496
RB-1	MANNINGTON	TRADITIONAL COVE BASE	103 ESPRESSO	4"		
03 WALLS						
P-1	SHERWIN WILLIAMS	FIELD COLOR	SW 7050 USEFUL GRAY		EGGSHELL	
P-2	SHERWIN WILLIAMS	BLUE ACCENT	SW 6967 FRANK BLUE		EGGSHELL	
P-3	SHERWIN WILLIAMS	RED ACCENT	SW 6866 HEARTTHROB		EGGSHELL	
P-4	SHERWIN WILLIAMS	GRAY ACCENT	SW 7063 ARGOS		EGGSHELL	
P-5	SHERWIN WILLIAMS	GREEN SCREEN	APPROVED FOR GREEN SCREEN		FLAT	
P-6	SHERWIN WILLIAMS	MEDIA CENTER CEILING	SW 7063 ARGOS		FLAT	
P-T	SHERWIN WILLIAMS	TRIM COLOR	SW 7067 CITYSCAPE		SEMI-GLOSS	
PWT-1	BEST TILE/CAESAR	STONEWAYS	SKY	6" X 24"	1/3 OFFSET	MISTY MILES 980.275.1496
PWT-2	BEST TILE/CAESAR	ORIGIN	ARCTIC	12" X 24"	1/3 OFFSET	MISTY MILES 980.275.1496
PWT-3	TRINITY TILE	WATERCOLORS	RED	4" X 8"	GLOSSY	SEE ELEVATION FOR PATTERN
PWT-4	TRINITY TILE	WATERCOLORS	BLUE	4" X 8"	GLOSSY	SEE ELEVATION FOR PATTERN
PWT-5	TRINITY TILE	WATERCOLORS	GREY	4" X 8"	GLOSSY	SEE ELEVATION FOR PATTERN
04 MILLWORK						
EPOXY-1	EPOXY RESIN		BLACK			SCIENCE /PREP C'TOP
PL-1	WILSONART	OR EQUAL	PREMIUM COLORS			CLASSROOM C'TOP
PL-2	WILSONART	OR EQUAL	PREMIUM COLORS			CLASSROOM CABINET
PL-3	WILSONART	OR EQUAL	PREMIUM COLORS			STAFF C'TOP
PL-4	WILSONART	OR EQUAL	PREMIUM COLORS			STAFF CABINET
PL-5	WILSONART	OR EQUAL	PREMIUM COLORS			MEDIA CENTER C'TOP
SS-1	CORIAN	GRADE C COLORS	TBD			COMMONS AREA C'TOP
SS-2	CORIAN	GRADE C COLORS	TBD			ADMIN AREA C'TOP
05 OTHER						
BLD-1	ARMSTRONG	SOUNDSCAPES BLADES	TBD			MEDIA CENTER CEILING
FAB-1	MOMENTUM FABRIC	ALLOW FOR $45/YD MATERIAL	TBD			BUILT IN WALL SEAT
MWC-1	ARMSTRONG	METALWORKS LINEAR CLASSICS	TBD - WOOD LOOK		PERFORATED	WOOD ACCENT CEILING
RN-1	MANNINGTON	SQURE EDGE RUBBER NOSING	217 CHARCOAL			INSTALLED AT EDGE OF LEARNING STAIR
RN-2	MANNINGTON	SQURE EDGE RUBBER NOSING	115 OCEAN BLUE			INSTALLED AT EDGE OF LEARNING STAIR
TR-1	SCHLUTER SYSTEMS	SCHIENE PROFILE	TBD			TOP OF EDGE OF PWT
TR-2	SCHLUTER SYSTEMS	RENO PROFILE	TBD			TRANSITION BETWEEN EXP-1 AND ABUTTING MATERIAL

FINISH NOTES:

A. ALL FINISHES ARE BASED ON PLAN NORTH.
B. SEE "FINISHES AND MATERIALS SCHEDULE" FOR FINISH MATERIAL INFORMATION AND "ROOM FINISH SCHEDULE" FOR SELECTIONS. REFER TO FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH ACCENT LOCATIONS AND PATTERNS.
C. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY EXPOSED SURFACE NOT HAVING A FINISH SPECIFIED BEFORE STARTING CONSTRUCTION.
D. ALL ITEMS EXPOSED TO VIEW SHALL BE PAINTED OR STAINED UNLESS PREFINISHED BY MANUFACTURER OR UNO.
E. INSTALLATION OF FINISHES SHALL COMPLY WITH MANUFACTURERS' INSTALLATION SPECIFICATION REQUIREMENTS.
F. PRODUCTS INDICATED ARE BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PER PRODUCT TYPE INDICATED.
G. CONTRACTOR IS RESPONSIBLE FOR CHECKING LEAD TIMES ON ALL FINISHES AS TO NOT DELAY WORK OR WORK OF OTHER TRADES.
H. CONTRACTOR TO PROVIDE MINIMUM 3% ATTIC STOCK OF ALL MATERIALS TO OWNER. MATERIAL TO BE PROVIDED IN UNOPENED BOXES.
I. REFER TO RCP FOR CEILING TYPES AND EXTENTS. REF CEILING COLUMN IN ROOM FINISH SCHEDULE FOR APPLICABLE CEILING, SOFFIT, AND BULKHEAD FINISHES.
J. REF ELECTRICAL INFORMATION FOR LIGHTING ALLOWANCES AND TYPES TO BE INCLUDED.
K. REF FINISH PLANS AND LEGEND FOR DOOR PAINT COLORS.
L. CAULK AT BASE OF DOOR FRAME BETWEEN FRAME AND FLOORING WITH COLOR MATCHED CAULK TO MATCH DOOR FRAME COLOR, TYP ALL LOCATIONS, UNO.
M. MILLWORK: ALL EXPOSED SURFACE OF MILLWORK TO BE COVERED WITH LAMINATE, UNO. NO MELAMINE OR UNFINISHED SURFACE WILL BE ACCEPTED. ALL WOOD GRAIN FINISHES SHALL BE INSTALLED WITH GRAINING RUNNING VERTICALLY, UNO. ALL MILLWORK TOE KICKS TO RECEIVE RESILIENT BASE, UNO. REF ELEVATIONS AND SECTIONS FOR NOTED EXCEPTIONS.

INTERIOR FINISH NOTES

1. EPX-1 TO BE FLASH COVED UP THE WALL 4" AS INTEGRAL BASE. CREATE A SMOOTH TRANSITION BETWEEN BASE TYPES.
2. PWT GO UP TO 5'-4". FINISH WITH METAL TRIM PIECE, TR-1.
3. NOT USED
4. TV GREEN SCREEN TO BE PAINTED TO MEET GREEN SCREEN REQUIREMENTS.
5. NOT USED.
6. NOT USED.
7. SV TO BE FLASH COVED UP WALL 4". PROVIDE COVE CAP AS TOP OF BASE.
8. STAIRS TO HAVE INTEGRAL STAIR SYSTEM. PROVIDE COORDINATING LANDING TILE. HANDRAILS TO BE PAINTED P-T.
9. STAIR 1 - S1 - TO HAVE 2 COLORS OF RBST AND LEARNING STAIRS TO BE FINISHED WITH RT-1/2.
10. SEE FLOOR PATTERN PLAN FOR PATTERN.
11. NOT USED.

BRONZE PLAQUE - COORDINATE FONT, VERBIAGE, LOCATION ETC. WITH ARCHITECT.

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

GMP SET 06/01/22

PRINCIPAL IN CHARGE:	MLC
PROJECT ARCHITECT:	RPC
DRAWN BY:	KCT

SHEET TITLE:
ROOM FINISH SCHEDULE

SHEET NO.
ID100

PROJ. NO.
020420.00

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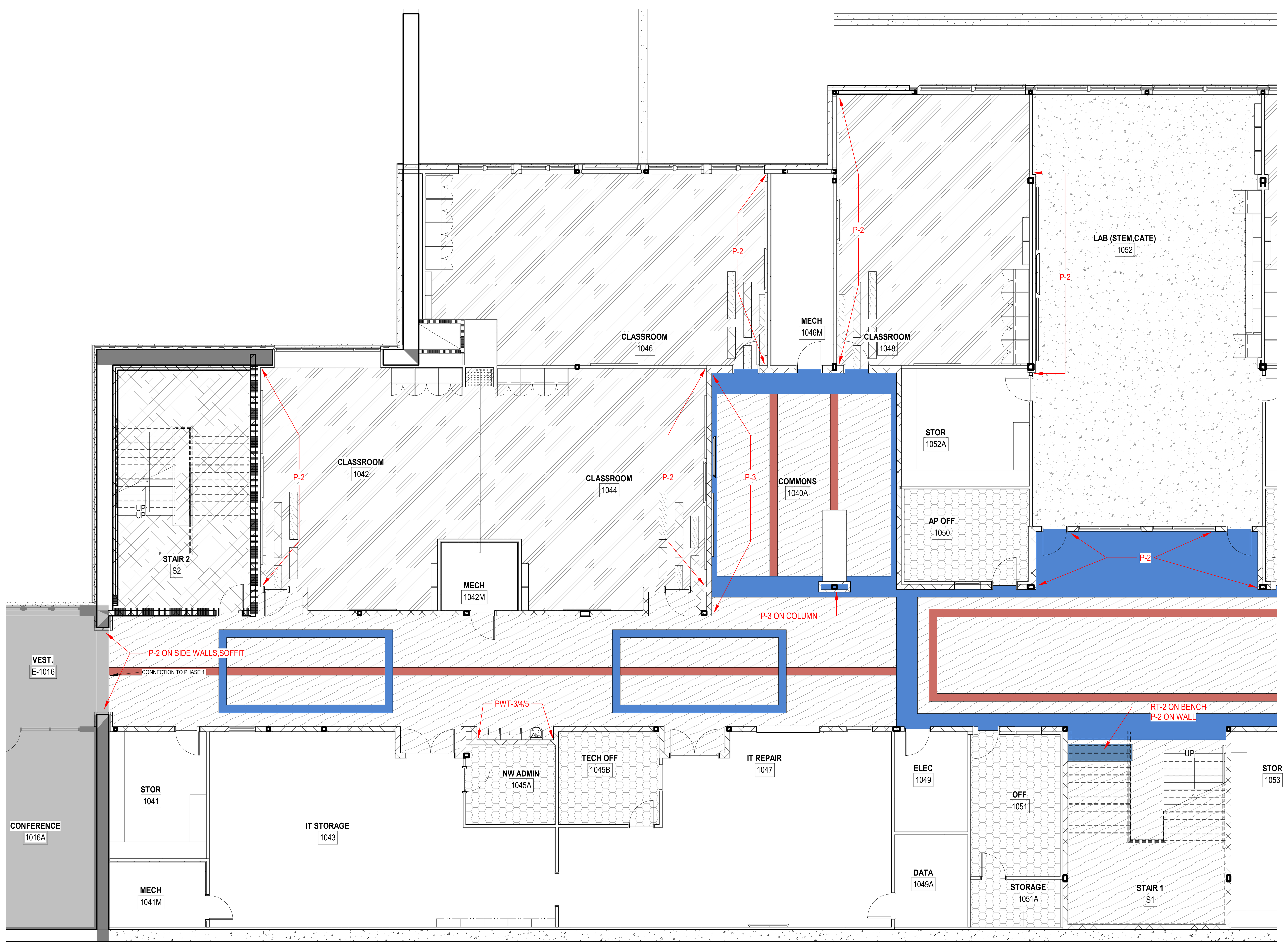

A1 / ID111 **1000 LEVEL - FINISH PLAN - AREA A**

1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	

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JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

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NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

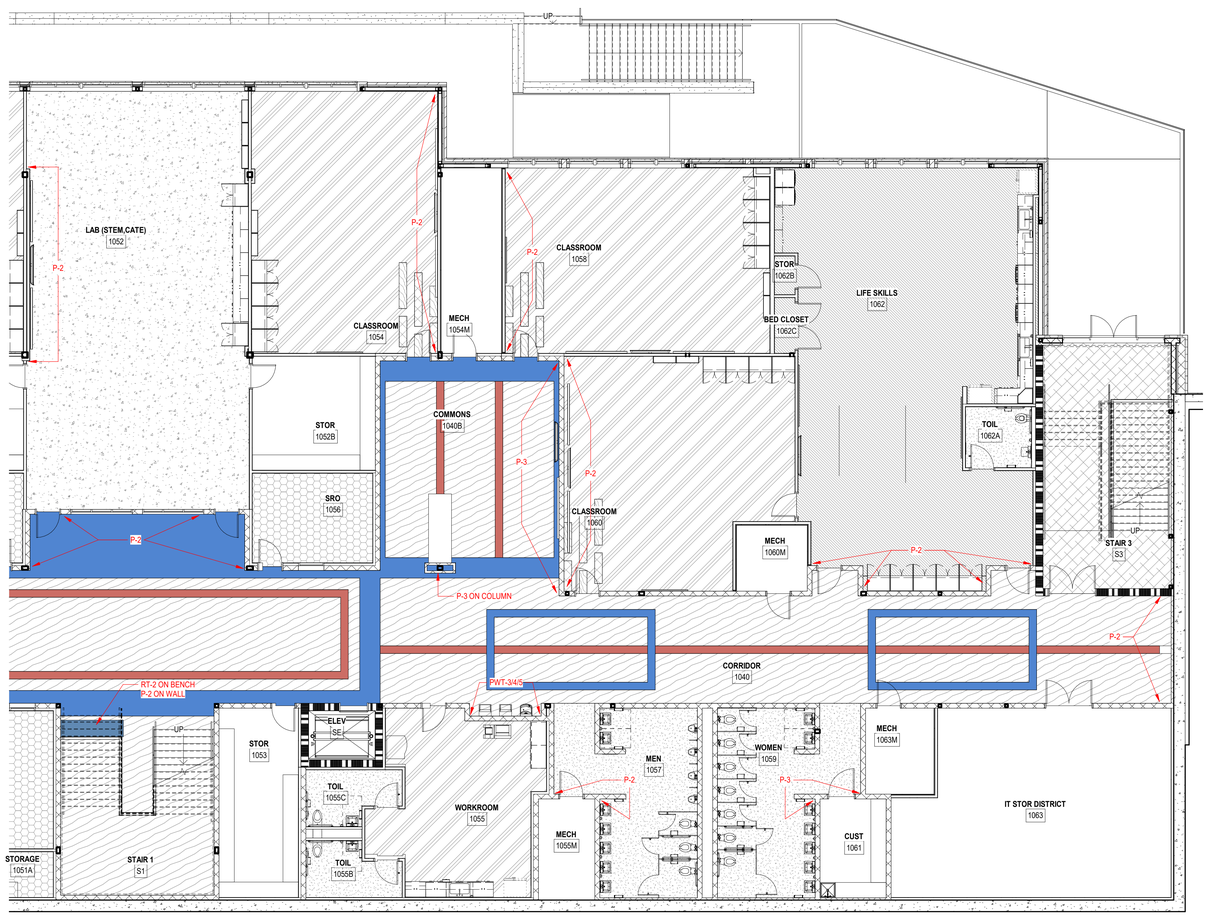
PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:

1000 LEVEL - FINISH PLAN - AREA A

SHEET NO. ID111

PROJ. NO. 020420.00



A1 / ID112 **1000 LEVEL - FINISH PLAN - AREA B**

1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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C	06/01/22	GMP SET	MLC

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GMP SET 06/01/22

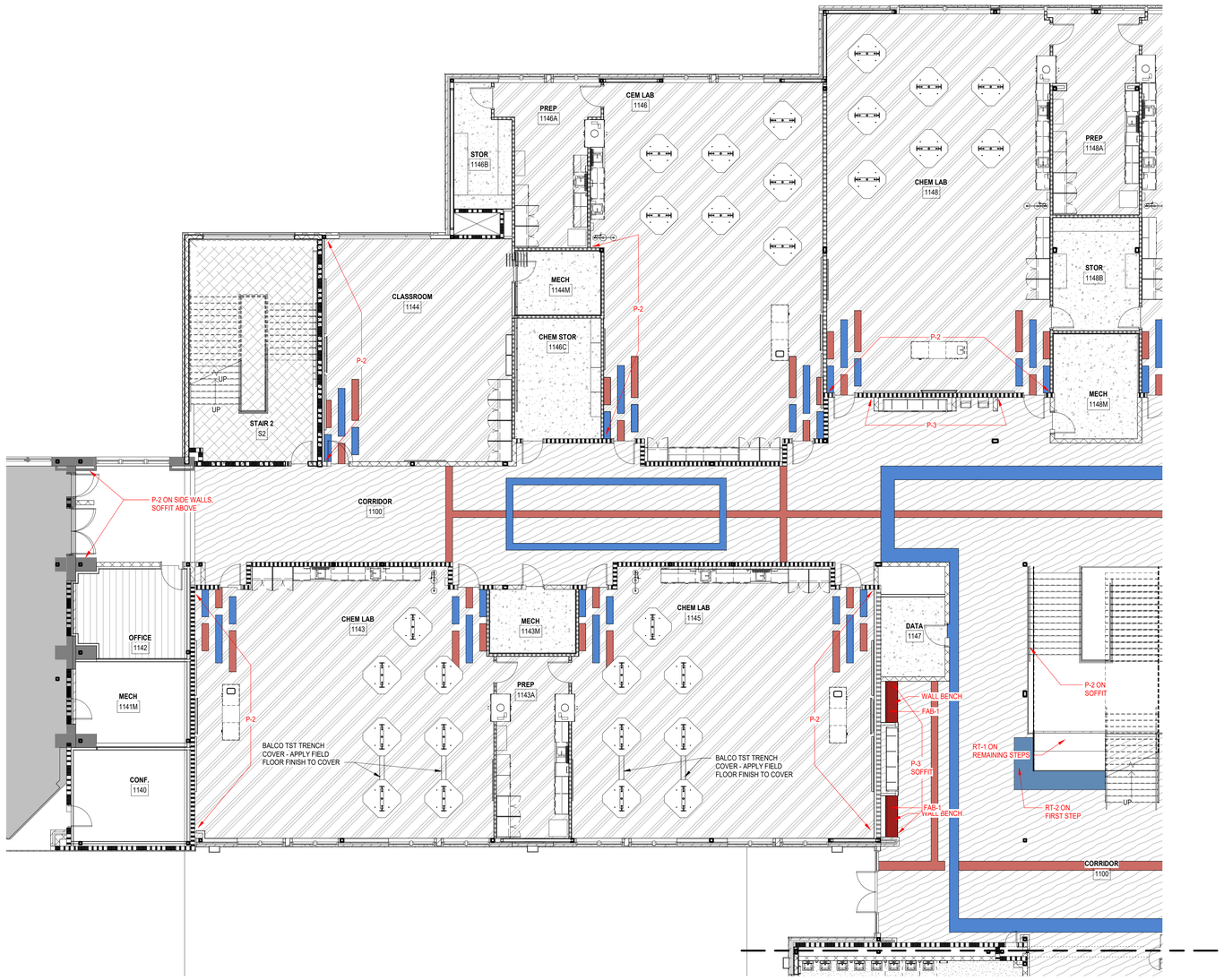
PRINCIPAL IN CHARGE:	MLC
PROJECT ARCHITECT:	RPC
DRAWN BY:	KCT

SHEET TITLE:

1000 LEVEL - FINISH PLAN - AREA B

SHEET NO. ID112

PROJ. NO. 020420.00



A1 ID113 **1100 LEVEL - FINISH PLAN - AREA A**

1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

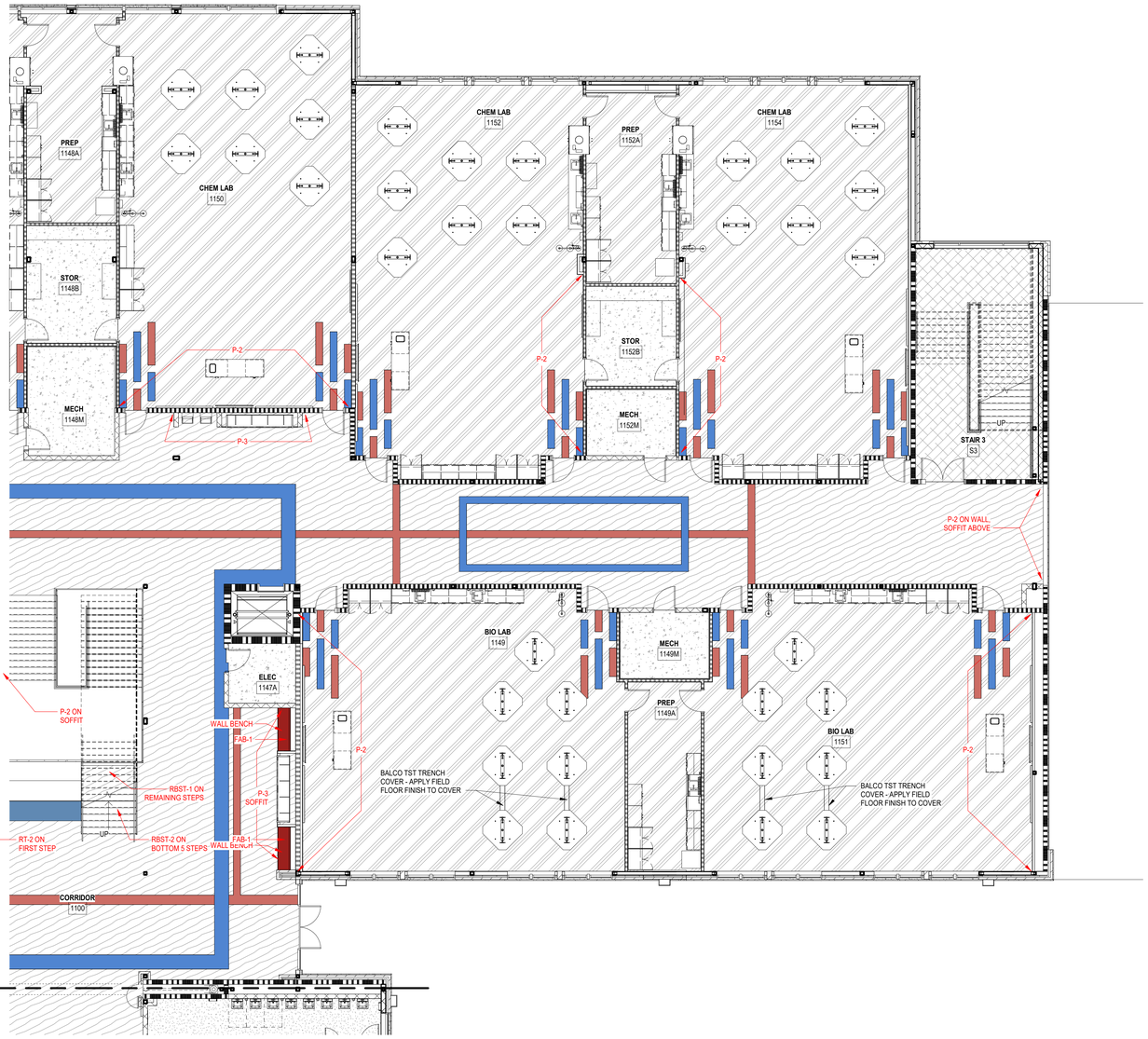
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1100 LEVEL - FINISH PLAN - AREA A

SHEET NO. ID113

PROJ. NO. 020420.00



A1 / ID114 **1100 LEVEL - FINISH PLAN - AREA B**

1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

- CPT-1 (ADMIN/OFFICE)
- CPT-2 (CONF)
- CPT-3 (MEDIA CTR)
- CPT-4 (MEDIA CTR)
- CPT-5 (MEDIA CTR)
- EPX-1
- PT-1
- RBST-1
- RBST-2
- SC
- SV-1 (LIFE SKILLS)
- SV-2 (NURSE)
- TZ-1
- TZ-2
- TZ-3
- VCT-1
- VCT-2
- VCT-3
- WCPT-1

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1100 LEVEL - FINISH PLAN - AREA B

SHEET NO. ID114

PROJ. NO. 020420.00

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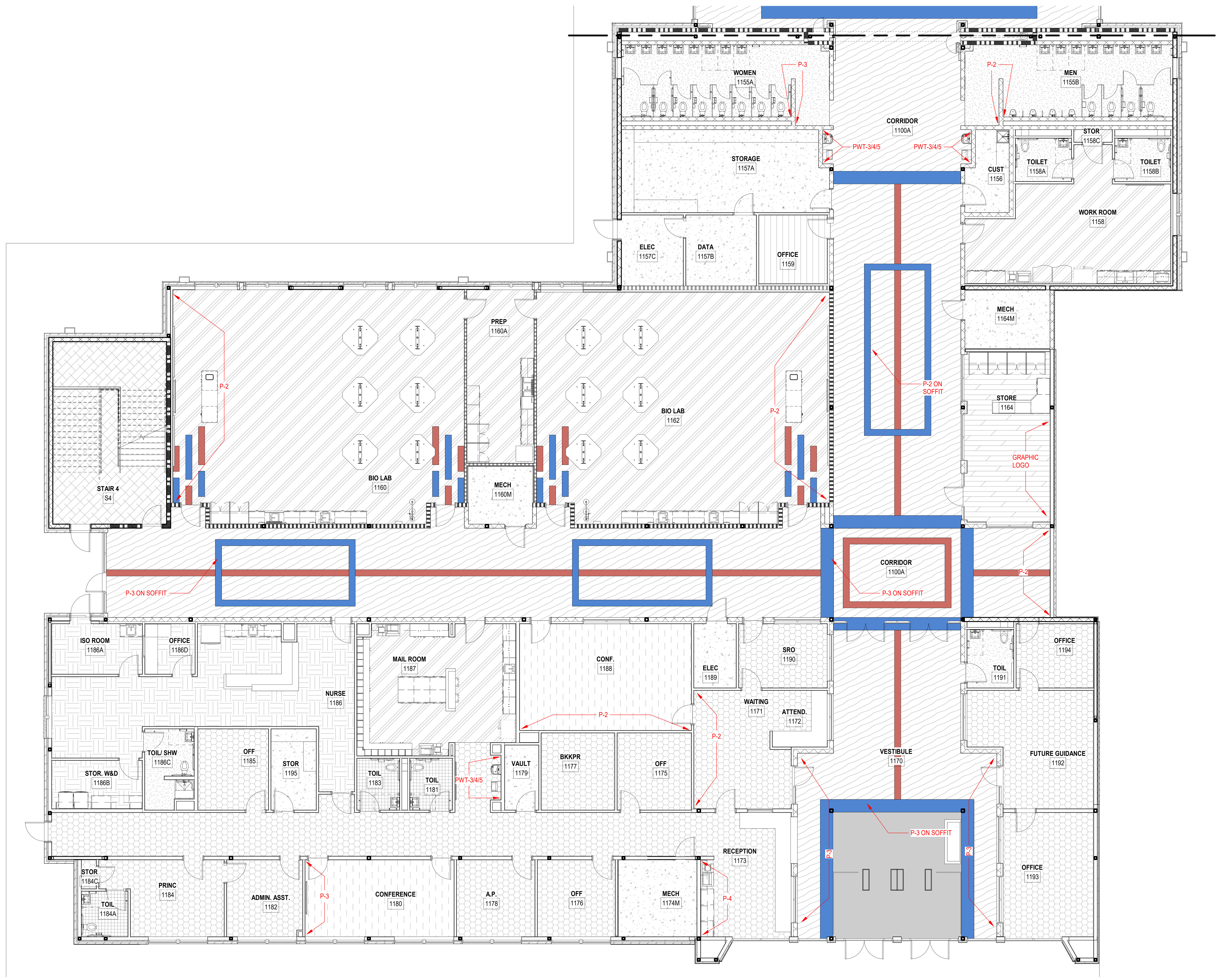
SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334



INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	

A1 ID115 **1100 LEVEL - FINISH PLAN - AREA C**
1/8" = 1'-0"

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION FOR PRICING ONLY

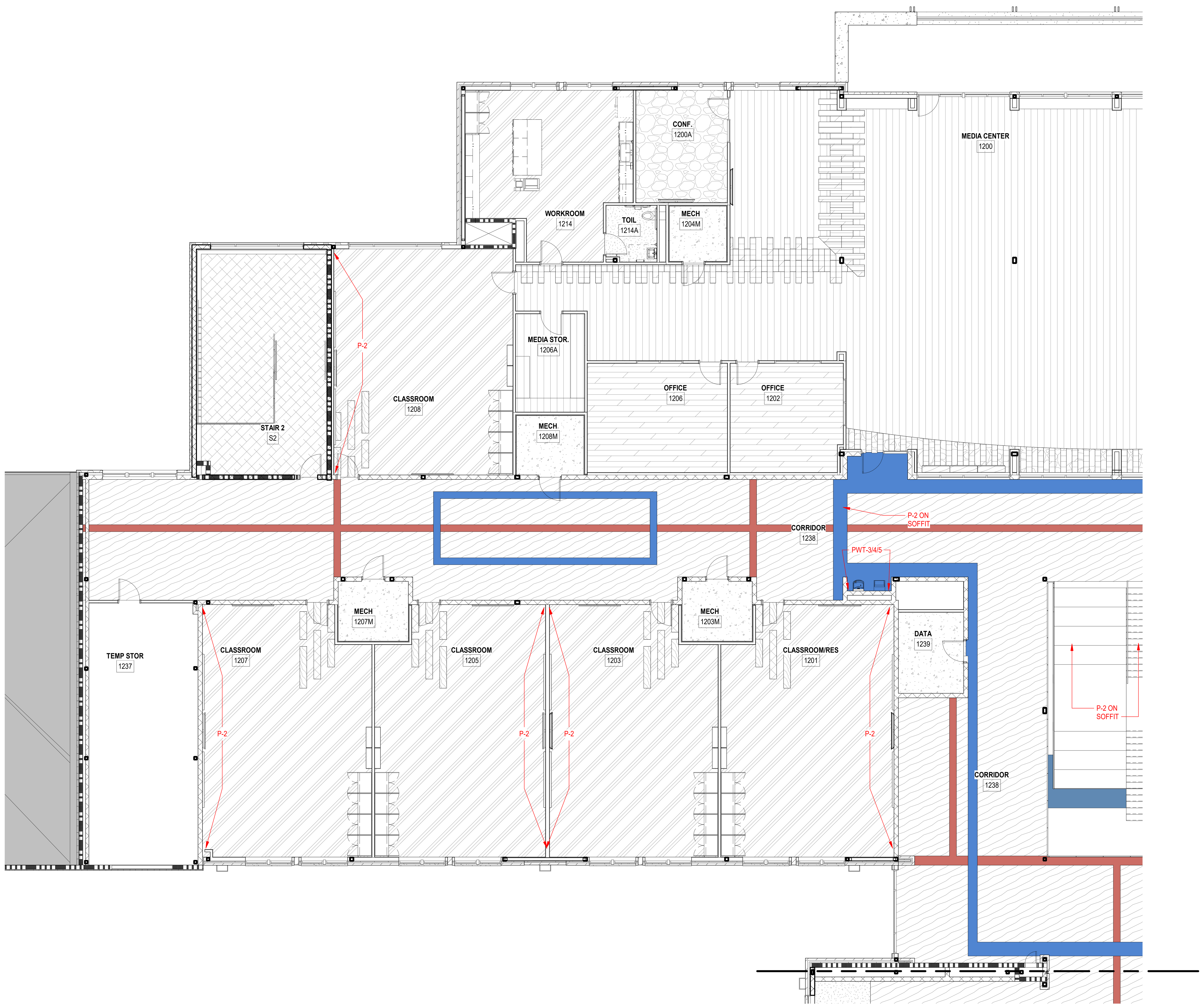
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1100 LEVEL - FINISH PLAN - AREA C

SHEET NO. PROJ. NO. 020420.00

ID115



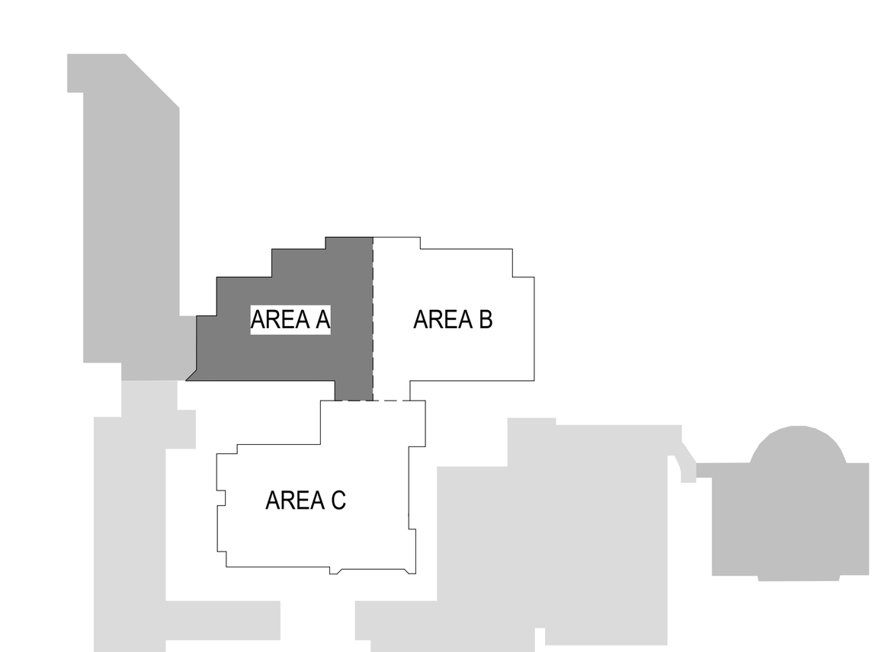
A1
ID116

1200 LEVEL - FINISH PLAN - AREA A

1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	



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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

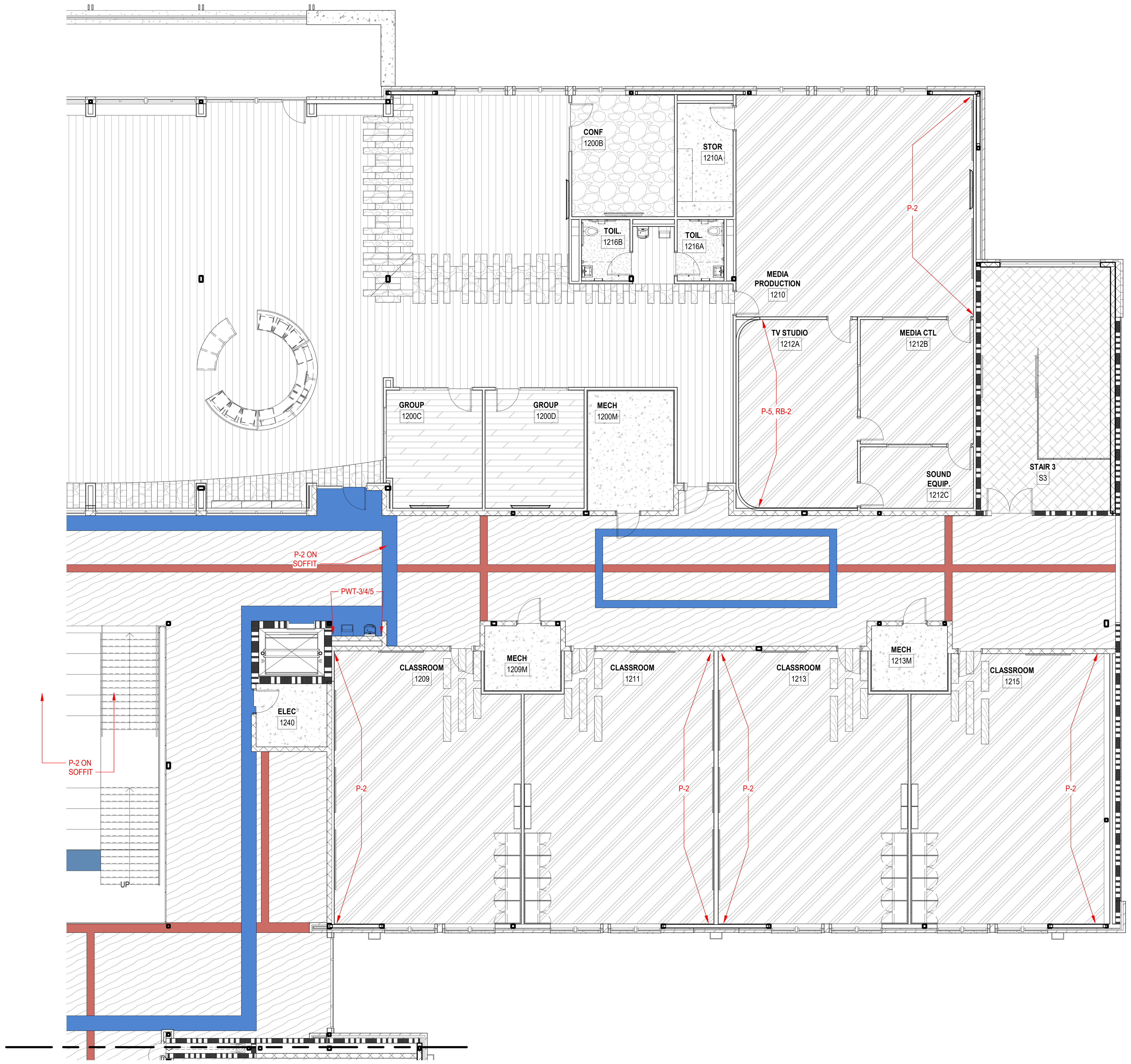
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1200 LEVEL - FINISH PLAN - AREA A

SHEET NO. ID116

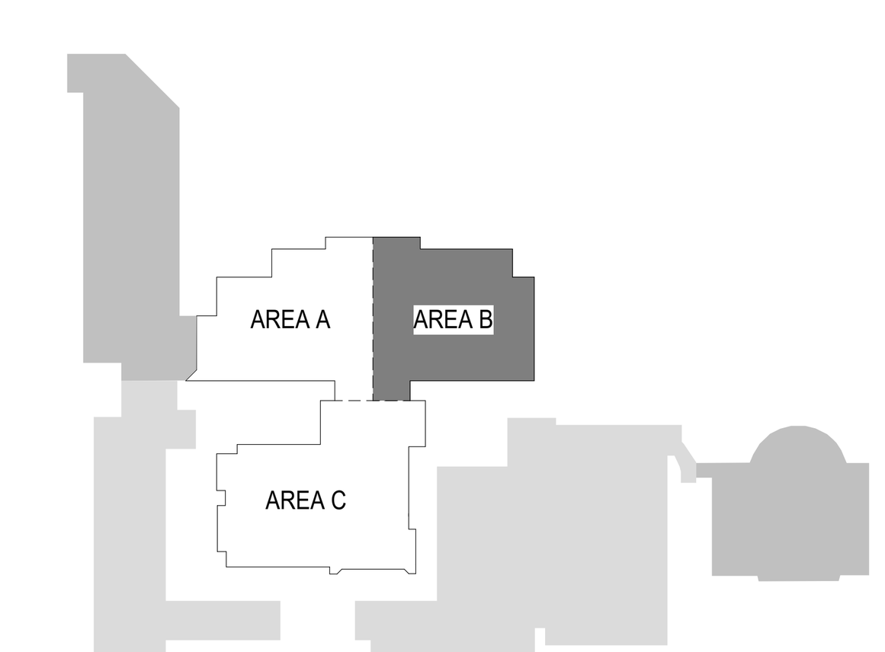
PROJ. NO. 020420.00



A1
ID117
1200 LEVEL - FINISH PLAN - AREA B
1/8" = 1'-0"

INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

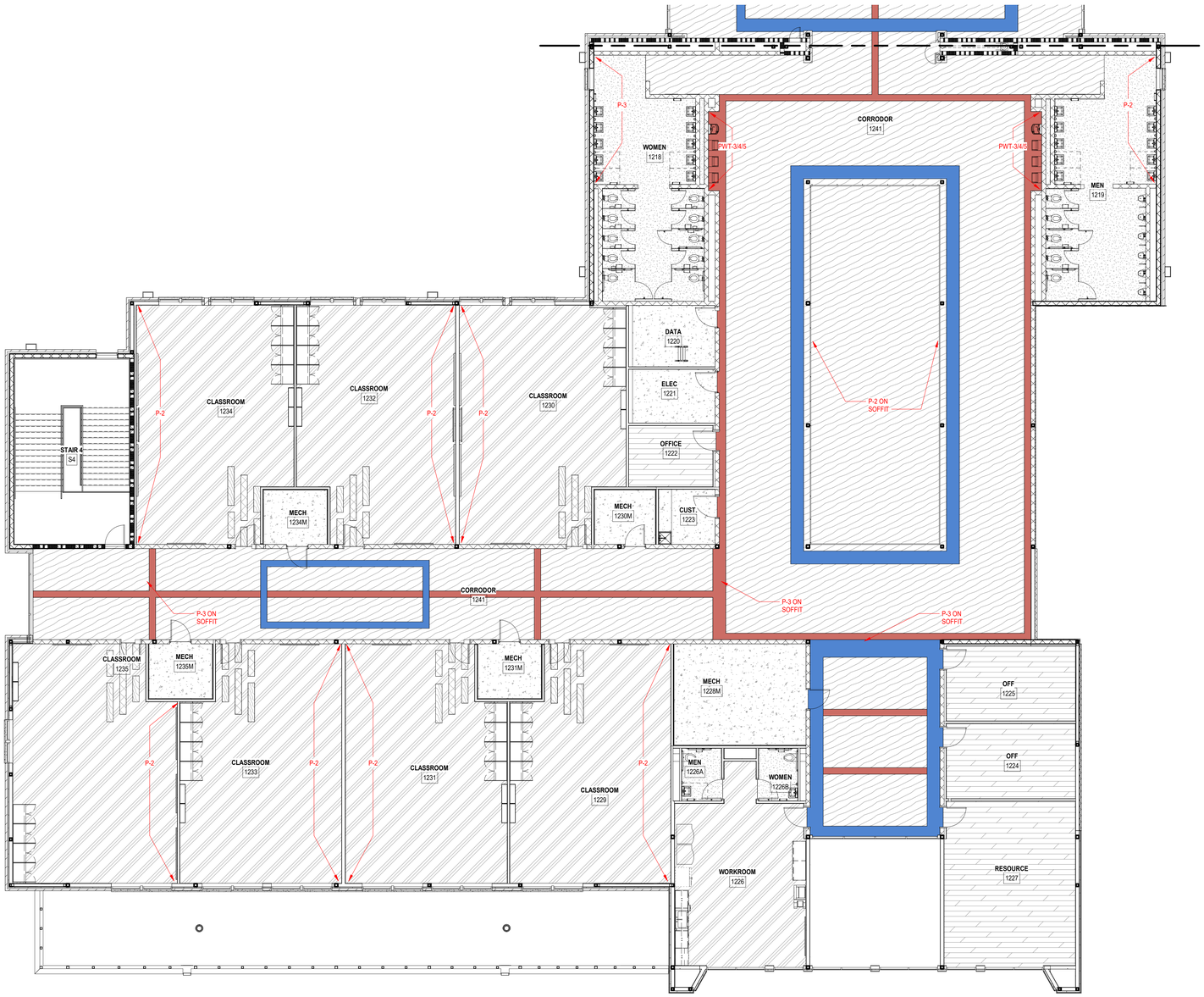
GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1200 LEVEL - FINISH PLAN - AREA B

SHEET NO.
PROJ. NO. 020420.00

ID117



INTERIOR FLOOR FINISH LEGEND

CPT-1 (ADMIN/OFFICE)	SV-1 (LIFE SKILLS)
CPT-2 (CONF)	SV-2 (NURSE)
CPT-3 (MEDIA CTR)	TZ-1
CPT-4 (MEDIA CTR)	TZ-2
CPT-5 (MEDIA CTR)	TZ-3
EPX-1	VCT-1
PT-1	VCT-2
RBST-1	VCT-3
RBST-2	WCPT-1
SC	

A1 / ID118 **INTERIORS_1200 LEVEL FINISH PLAN - AREA C**

1/8" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: MLC
PROJECT ARCHITECT: RPC
DRAWN BY: KCT

SHEET TITLE:
1200 LEVEL - FINISH PLAN - AREA C

SHEET NO. ID118

PROJ. NO. 020420.00

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA REGULATIONS ON THE PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION AND CONSTRUCTION.

2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH DRAWINGS. THE COST OF ANY TESTS OR WORK REQUIRED BECAUSE OF CONTRACTOR'S FAILURE TO PERFORM IN ACCORDANCE WITH THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.

3. CONTRACTOR SHALL REFER TO OTHER DISCIPLINES' DRAWINGS AND VISIT SITE TO OBSERVE (E) CONSTRUCTION AND AS-BUILT CONDITIONS. SURVEY PROJECT SITE TO LOCATE UNDERGROUND ITEMS & UTILITIES. REMOVE / RELOCATE EXISTING ITEMS IF REQUIRED FOR NEW CONSTRUCTION. COORDINATE ANY DISRUPTION OF SERVICES WITH OWNER.

4. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND SITE PLAN DRAWINGS TO COORDINATE ALL DIMENSIONS AND ELEVATIONS RELATED TO WORK SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH THE FABRICATOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL COORDINATE ALL ROOF, FLOOR, AND WALL OPENINGS WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.

6. ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, CURRENT EDITION.

7. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION, OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, UNLESS SPECIFICALLY STATED OTHERWISE.

8. BOTH BAILEY AND SON ENGINEERING, INC. AND THE ENGINEER WHOSE PROFESSIONAL SEAL IS AFFIXED TO THESE CONTRACT DRAWINGS DISCLAIM ANY IMPLIED WARRANTIES OF ANY KIND WHATSOEVER INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF FITNESS OF THESE DRAWINGS AND/OR SPECIFICATIONS.

9. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITY, QUALITY, AND COORDINATION WITH ALL DISCIPLINES. ELECTRONIC TRANSFER OF CAD FILES TO AID THE CONTRACTOR OR FABRICATOR IS NOT RECOMMENDED BUT AUTOCAD DWG. FILES ARE AVAILABLE UPON RECEIPT OF FULLY COMPLETED CASE DOCUMENT 11 AND A FEE OF $50.00 FOR EACH DIFFERENT DRAWING SHEET REQUESTED.

10. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. IN CASE OF DISCREPANCIES, NOTIFY THE ENGINEER FOR INTERPRETATION.

11. THE REHABILITATION OF AN EXISTING STRUCTURE REQUIRES ASSUMPTIONS TO BE MADE REGARDING EXISTING CONDITIONS. THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT ADDITIONAL COST OR WITHOUT DESTROYING OTHERWISE SERVICEABLE PORTIONS OF THE STRUCTURE. THE ENGINEER SHALL NOT BE LIABLE FOR ANY COST ARISING FROM THE DISCOVERY OF UNKNOWN CONDITIONS IN THE EXISTING STRUCTURE.

12. THE DETAILER SHALL WORK WITH THE STRUCTURAL AND ARCHITECTURAL DOCUMENTS WHILE PREPARING SHOP DRAWINGS. THE DETAILER SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. IF THE DETAILER ELECTS TO SCALE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN, THE DETAILER SHALL SUBMIT SHOP DRAWINGS THAT REQUEST ARCHITECTURAL VERIFICATION OF SCALED DIMENSIONS WHEN SUBMITTED FOR APPROVAL.

13. WALL, DOOR, WINDOW LOCATIONS; AND LIMITS OF SLAB ON GRADE EDGES, RECESSED, DEPRESSED AND SLOPED AREAS, AND LIMITS OF ROOF & FLOOR DECK (EDGES & OPENINGS) ARE PRIMARILY THE RESPONSIBILITY OF THE ARCHITECT. CONTRACTOR SHALL ESTABLISH OR DETERMINE SUCH INFORMATION BASED ON ARCHITECTURAL DOCUMENTS PRIOR TO ANY FABRICATION OR CONSTRUCTION OF CONCRETE OR STEEL.

DESIGN LOADS AND CRITERIA:

	USED	NOT USED
1. INTERNATIONAL BUILDING CODE, 2018 EDITION, WHICH INCLUDES BUT IS NOT LIMITED TO:		
a. LOADING - ASCE 7-16	☒	☐
b. CONCRETE - ACI 318-14, AND ALSO:	☒	☐
1. HOT WEATHER CONCRETE PROCEDURES - ACI 305.1-14	☒	☐
2. COLD WEATHER CONCRETE PROCEDURES - ACI 306R-16	☒	☐
3. GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION - ACI 302.1R-15	☒	☐
4. QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY - ACI 335.2-07	☒	☐
5. QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE - ACI 355.4-11	☒	☐
c. MASONRY (STANDARD) - TMS 402-2016	☒	☐
d. MASONRY (SPECIFICATION) - TMS 602-2016	☒	☐
e. STRUCTURAL STEEL - AISC 360-16	☒	☐
f. STRUCTURAL STEEL SEISMIC - AISC 341-16 (* NOT USED FOR R=3, STEEL STRUCTURES NOT DETAILED FOR SEISMIC)	☐	☒ *
g. WOOD, NATIONAL DESIGN SPECIFICATIONS - NDS-2018	☐	☒
h. WOOD, SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC - SDPWS-2015	☐	☒
i. WOOD FRAME CONSTRUCTION MANUAL - WFCM-2018	☐	☒
j. AMERICAN WELDING SOCIETY		
1. STRUCTURAL WELDING CODE - STEEL - AWS D1.1/D1.1M-2015	☒	☐
2. STRUCTURAL WELDING CODE - SHEET STEEL - AWS D1.3/D1.3M-2018	☒	☐
3. STRUCTURAL WELDING CODE - STEEL REINF. BARS - AWS D1.4/D1.4M-2018	☒	☐
k. NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING, 2015 - AISI S240-15	☒	☐
i. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016 - AISI S100-16 (AS REFERENCED IN AISI-240)	☒	☐
2. GEOTECHNICAL SUBSURFACE REPORT		
a. S&ME, INC. REPORT DATED 9.19.2014	☒	☐

FLOOR DEADLOAD: 70 psf
FLOOR LIVE LOAD: 40 psf (CLASSROOMS) + 15 psf (PARTITIONS)
50 psf (OFFICES)
80 psf (CORRIDORS ON 2ND AND 3RD FLOOR)
100 psf (AT STAIRS)
150 psf (MEDIA CENTER)

ROOF DEAD LOAD: 20 psf
ROOF LIVE LOAD: 20 psf W/LIVE LOAD REDUCTION AS ALLOWABLE BY CODE

SNOW LOADS:
GROUND SNOW LOAD, Pg = 10 psf
FLAT ROOF SNOW LOAD, Pf = 7.7 psf
EXPOSURE FACTOR, Ce = 1.00
IMPORTANCE FACTOR, Is = 1.10
THERMAL FACTOR, Ct = 1.00

SNOW DRIFT:
SURCHARGE LOAD = SEE DETAIL D1/S300
REFERENCE A1/S300 FOR WINDWARD SNOW DRIFT PROJECTION AREA

WIND LOAD:
ULTIMATE WIND SPEED (3-SEC. GUST) = 115 MPH
NOMINAL WIND SPEED (3-SEC. GUST) = 89.1 MPH
WIND IMPORTANCE FACTOR, Iw: = 1
RISK CATEGORY: III
WIND EXPOSURE: C
COMPONENTS AND CLADDING: PER ASCE 7-16, CHAPTER 30, SECT. 30.4 WITH APPLICABLE ADJUSTMENT FACTORS. SEE A3/S001.
INTERNAL PRESSURE COEFFICIENT: GCpi = ±0.18 <ASCE 7-16, TABLE 26.13-1>

SEISMIC DESIGN DATA:
RISK CATEGORY: III
IMPORTANCE FACTOR, Ie = 1.25
SOIL SITE CLASS: C (PER S&ME INC. GEOTECHNICAL REPORT)
MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.279 g, S1 = 0.092 g
SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.242 g, Sd1 = 0.092 g
SEISMIC DESIGN CATEGORY: B
DESIGN BASE SHEAR:
V = CsW = 700 K
BASIC SEISMIC FORCE RESISTING SYSTEM(S):

	USED	NOT USED
1. STRUCTURAL STEEL SYSTEMS		
a. CONCENTRICALLY BRACED FRAMES (NOT DETAILED FOR SEISMIC, R=3)	☒	☐
b. MOMENT RESISTING FRAMES (NOT DETAILED FOR SEISMIC, R=3)	☒	☐
2. INTERMEDIATE REINFORCED CONCRETE MASONRY SHEAR WALL(S)	☒	☐
3. COLD-FORMED STEEL FLAT STRAP X-BRACE(S)	☐	☒
4. COLD-FORMED STEEL SHEAR WALLS	☐	☒

SEISMIC RESPONSE COEFFICIENT(S):
Cs = 0.081
RESPONSE MODIFICATION FACTORS:
R (NORTH/SOUTH) = 3
R (EAST/WEST) = 3
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED FOR 3000 PSF ALLOWABLE SOIL BEARING PRESSURE AND A SOIL SUBGRADE MODULUS (K) OF 140 PCI. CONTRACTOR SHALL VERIFY ADEQUACY OF FOOTING AND SLAB SUBGRADE TO SUPPORT THIS LOADING. EXCAVATE ALL SOIL UNSUITABLE FOR FOUNDATION OR SLAB SUPPORT AS DETERMINED BY A GEOTECHNICAL ENGINEER.

2. FILL UNDER BUILDING SLABS TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698), WITH THE UPPERMOST 12 INCHES COMPACTED TO 98% OF THE SAME SPECIFICATION. MOISTURE CONTENT OF THE FILL, WHILE IT IS BEING COMPACTED, SHALL BE WITHIN 3% OF THE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT.

3. A 4" LAYER OF CRUSHED STONE SHALL BE PLACED BENEATH THE SLAB ON GRADE. THE CRUSHED STONE SHOULD CONSIST OF MACADAM BASE COURSE COMPACTED TO AT LEAST 100% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.

4. OWNER MAY RETAIN AN INDEPENDENT GEOTECHNICAL ENGINEER FOR TESTING COMPACTION AND INSPECTIONS OF ALL FOOTING AND SLAB SUBGRADE. TEST AND INSPECTION RESULTS SHALL BE REPORTED IN WRITING TO THE ENGINEER AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS ARE MADE. THE COST OF ANY RETESTS OR ADDITIONAL WORK REQUIRED DUE TO IMPROPERLY COMPACTED FILL SHALL BE BORNE BY THE CONTRACTOR.

5. THE FOUNDATION IS DESIGNED AS RECOMMENDED BY S&ME REPORT DATED 9.19.2014. THE ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD CONTRARY TO THOSE ASSUMED FOR DESIGN.

6. SUBGRADE MATERIALS AND THEIR INSTALLATION SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

7. THE CONTRACTOR SHALL RETAIN A COPY OF THE GEOTECHNICAL REPORT ON PROJECT SITE AND SHALL FOLLOW ALL CONSTRUCTION AND FOUNDATION RECOMMENDATIONS OR PROCEDURES THEREIN. RECOMMENDATIONS MADE IN THE REPORT SHALL BE CONSTRUED AS PROJECT SPECIFICATIONS FOR SITE PREPARATION AND FOUNDATION CONSTRUCTION.

CONCRETE MASONRY NOTES:

1. ALL MASONRY WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TMS 402/602. ALL HOLLOW CONCRETE BLOCK SHALL BE LIGHTWEIGHT (105 LBS/SQ. FT. MAX.) AND SHALL MEET THE REQUIREMENTS OF ASTM C90, (f'm = 2000 PSI).

2. MORTAR SHALL MEET ASTM C270 FOR TYPE S MORTAR.

3. FILL ALL MASONRY CELLS AND BOND BEAMS CONTAINING REINFORCING BARS WITH REINFORCED MASONRY GROUT, (RMG), MEETING REQUIREMENTS OF ASTM C476, AND WITH A MIN. 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI.

4. HORIZONTAL JOINT REINFORCING SHALL BE TRUSS TYPE AND SHALL BE HOT-DIP GALVANIZED. LOCATE JOINT REINFORCING AS FOLLOWS:

A. WIRE SIZE FOR SIDE RODS SHALL BE W1.7 (0.148" ∅) MINIMUM FOR ALL 8" CMU WALLS AND W2.8 (0.187" ∅) MINIMUM FOR ALL 12" CMU WALLS.
B. AT 8" ON CENTER IN WALLS BELOW SLAB ON GRADE AND IN RETAINING WALLS.
C. AT 16" ON CENTER IN ALL OTHER WALLS.
D. AT FIRST TWO COURSES ABOVE AND BELOW WALL OPENINGS, JOINT REINFORCING SHALL EXTEND 24" (MINIMUM) BEYOND THE EDGE OF OPENINGS. (THIS DOES NOT APPLY AT TOP OF OPENINGS WITH STEEL OR BOND BEAM LINTELS).

5. REBAR POSITIONERS (HOHMANN & BARNARD RB-8) OR EQUAL AT REINFORCED CELLS ARE RECOMMENDED.

6. PROVIDE REINFORCED MASONRY LINTELS AT ALL WALL OPENINGS WIDER THAN 16", UNLESS NOTED OTHERWISE. FILL JAMB CELLS UP TO LINTEL ELEVATION BEFORE LINTEL BLOCKS ARE PLACED.

7. BLOCK SHALL BE PLACED IN STACKED BOND, JOINTS TO BE 3/8"; TOOL ALL JOINTS CONCAVE.

8. ALL CONTINUOUS REINFORCING BARS SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS OF BOND BEAMS. 8" BOND BEAMS SHALL HAVE A MINIMUM OF TWO #5 BARS, AND 12" BOND BEAMS SHALL HAVE A MINIMUM OF TWO #5 BARS. BOND BEAM SHALL HAVE A 24" MINIMUM BEARING AT EACH END.

9. LOCATE CONTROL JOINTS AND EXPANSION JOINTS AS RECOMMENDED BY THE NCMA (40 FEET MAXIMUM SPACING) AND AS APPROVED BY THE ARCHITECT. DISCONTINUE BOND BEAM REINFORCING AT CONTROL JOINTS EXCEPT FOR BOND BEAMS AT THE PLANE OF A ROOF, A FLOOR, OR AT THE TOP OF THE WALL..

10. VERTICAL WALL REINFORCING TO BE SPLICED WITH THE FOLLOWING MINIMUM LAPS, OR APPROVED WELDED OR MECHANICAL SPLICE:
FOR 8" CMU:
#3 - 22" #4 - 29" #5 - 37" #6 - 44" #7 - 63" #8 - 72"
FOR 12" CMU:
#3 - 22" #4 - 29" #5 - 37" #6 - 44" #7 - 63" #8 - 72"
WHERE INTERFERENCE PREVENTS A CONTINUOUS RUN OF WALL REINFORCING, OFFSET THE MINIMUM DISTANCE REQUIRED TO BY-PASS THE INTERFERENCE, LAP AS SPECIFIED, AND EXTEND SPLICE BAR INTO TOP OF WALL.

11. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING MINIMUM VERTICAL WALL REINFORCEMENT: A #5 SPACED AT 48" MAX. & A #5 ON EACH SIDE OF WALL OPENINGS AND CONTROL JOINTS, AT ENDS OF WALLS, AND AT CORNERS. CONTINUE VERTICAL REINFORCING THROUGH INTERMEDIATE LEVEL BOND BEAMS AND EXTEND INTO BOND BEAM AT TOP OF WALL.

12. UNLESS NOTED OTHERWISE, PROVIDE BOND BEAMS IN THE FOLLOWING LOCATIONS:
A ROOF PLANES.
B WITHIN 8" OF THE TOP COURSE OF MASONRY IN ALL WALLS.
C AT THE TOP OF WALL OPENINGS.
D EVERY 48" OF WALL HEIGHT IN STAIRWELLS & ELEVATOR SHAFT.

13. HOLES FOR SLEEVE ANCHORS MUST BE DRILLED WITH A ROTARY DRILL. DO NOT USE HAMMER DRILL. ANCHORS SHALL BE EMBEDDED IN FILLED CELLS WHERE POSSIBLE.

14. IN ADDITION TO THE ABOVE, BOND BEAMS SHALL BE BUILT INTEGRALLY AT WALL INTERSECTIONS PER DETAIL D4/S202, AND MULTI - COURSE BOND BEAMS SHALL BE CONSTRUCTED AND GROUTED MONOLITHICALLY IN ONE SINGLE LIFT.

15. CONSOLIDATION OF GROUT FOR LIFTS GREATER THAN 12" SHALL BE BY MECHANICAL VIBRATION ONLY. RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

16. PROTECT ALL CMU TOP OF WALLS, PROJECTIONS, AND SILLS BY COVERING WITH WATERPROOF SHEETING AT THE END OF EACH DAY'S WORK OR WHEN CONSTRUCTION IS NOT IN PROGRESS. FOR SINGLE WYTHE WALLS, THE COVER SHALL EXTEND A MINIMUM OF 24 INCHES DOWN BOTH SIDES OF THE WALL AND BE SECURED IN PLACE. FOR MULTIWYTHE WALLS WHERE ONE WYTHE IS COMPLETED IN ADVANCE OF THE OTHER WYTHE, SECURE COVER A MINIMUM OF 24 INCHES DOWN FACE OF WALL SO THAT CAVITY IS COVERED AND PROTECTED. HOLD COVER IN PLACE.

CONCRETE AND REINFORCING NOTES:

1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI 318, INCLUDING HOT WEATHER CONCRETING PROCEDURES IN ACI 305 AND COLD WEATHER CONCRETING PROCEDURES IN ACI 306.

2. MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:

FOUNDATION CONCRETE....3000 PSI*
SLAB ON GRADE CONCRETE....4000 PSI*
FOUNDATION WALLS....3000 PSI*
CONCRETE RETAINING WALLS....4500 PSI*
- PROVIDE 6% AIR ENTRAINING IN CONCRETE EXPOSED TO WEATHER.
* MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
* SLUMP FOR FOOTINGS TO BE 2 TO 4 INCHES.
REINFORCING BARS....ASTM A615, GRADE 60
WELDABLE REINFORCING BARS....ASTM A706, GRADE 60
ANCHOR BOLTS, SLEEVES, AND OTHER EMBEDDED STEEL....ASTM A36
WELDED WIRE FABRIC....ASTM A1064
CONCRETE AGGREGATE....ASTM C33
STRUCTURAL SYNTHETIC MACRO FIBER REINFORCEMENT....FORTA-FERRO BY FORTA CORPORATION (DOSAGE RATE = 3 LBS./CY -TYP. U.N.O.) OR APPROVED EQUAL

3. CONCRETE FINISHES DETERMINED BY ARCHITECT. CURING COMPOUND SHALL MEET ASTM C1315 WITH A MIN. OF 25% SOLIDS CONTENT BY VOLUME.

4. ANCHOR BOLTS TO BE LOCATED WITH A TOLERANCE OF 1/8 INCH.

5. ALL CONTINUOUS REINFORCING BARS SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS OF WALLS AND FOUNDATIONS. USE MINIMUM TEMPERATURE REINFORCING AS CALLED FOR BY ACI 318 WHERE REINFORCING IS NOT SHOWN.

6. ALL REINFORCING SPLICES SHALL BE CLASS "B" PER ACI 318, UNLESS NOTED OTHERWISE. MINIMUM SPLICE LENGTH IS 58 BAR DIAMETERS FOR #6 BARS AND SMALLER. MINIMUM SPLICE LENGTH IS 72 BAR DIAMETERS FOR #7 BARS AND LARGER.

7. C.J. (AS INDICATED IN PLAN) DENOTES CONSTRUCTION OR CONTROL JOINT (CONTRACTOR'S OPTION U.N.O.). "SAWED JOINT" (AS INDICATED IN PLAN) DENOTES JOINT MUST BE SAWED AS DICTATED BY DESIGN. FOR A SAW JOINT, SAW CUT WHERE INDICATED, TO A DEPTH OF 1/4 THICKNESS OF SLAB. JOINT SHALL BE SOFT CUT AS SOON AS POSSIBLE AFTER FINISHING OPERATIONS WITHOUT CAUSING RAVELING OF THE SURFACE. FOR A CONSTRUCTION JOINT, THICKEN THE SLAB TO 8" FOR AT LEAST 16" ON EACH SIDE OF THE JOINT AND PROVIDE 1/2" DOWELS AT 16" THROUGH JOINT. SEE SECTIONS & DETAILS FOR CLARIFICATION. JOINT SPACING FOR A 4" THICK SLAB ON GRADE SHALL BE 10'-0"± O.C. WITH 12'-0" MAXIMUM RECOMMENDED. GC SHALL PROVIDE CONSTRUCTION JOINTS AT A MAXIMUM OF 125'-0" ON CENTER OR LESS.

8. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, ETC.

9. CONCRETE TEST CYLINDERS AND SLUMP TESTS ARE TO BE MADE FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF, OR FOR EACH 5,000 SQUARE FOOT OF SURFACE AREA PLACED. TEST RESULTS SHALL BE REPORTED IN WRITING TO THE ENGINEER WITHIN 48 HOURS AFTER TESTS ARE MADE.

10. CONCRETE FLOOR SLABS ON GRADE MAY HAVE A MID-RANGE WATER REDUCER (MRWR). NOMINAL SLUMP FOR SLAB SHALL BE 3" TO 4" BEFORE ADDING MRWR, AND 6" TO 8" AFTER ADDING MRWR.

11. FLOOR SLABS ON GRADE SHALL MEET A SPECIFIED OVERALL FLOOR FLATNESS VALUE OF 25 AND A MINIMUM LOCAL FLOOR FLATNESS VALUE OF 17. FLOOR SLABS ON GRADE SHALL MEET A SPECIFIED OVERALL FLOOR LEVELNESS VALUE OF 20 AND A MINIMUM LOCAL FLOOR LEVELNESS VALUE OF 15 IN ACCORDANCE WITH ACI 302, UNLESS NOTED OTHERWISE. ELEVATED CONCRETE FLOOR SLABS AND CONCRETE FLOOR SLABS ON GRADE MAY HAVE A MID-RANGE WATER REDUCER (MRWR). NOMINAL SLUMP FOR SLAB SHALL BE 3" TO 4" BEFORE ADDING MRWR, AND 6" TO 8" AFTER ADDING MRWR.

12. LIMIT USE OF FLY ASH TO NOT EXCEED 25% OF CEMENTITIOUS MATERIAL BY WEIGHT (CEMENT + FLY ASH).

13. JOINT SEALANT FOR HORIZONTAL APPLICATIONS SHALL BE ONE-COMPONENT ELASTOMERIC, SELF-LEVELING POLYURETHANE JOINT SEALANT SUCH AS MASTERSEAL SL 1 AS MANUFACTURED BY BASF, EUCOLASTIC 1SL AS MANUFACTURED BY EUCLID, OR APPROVED EQUIVALENT. UTILIZE A CLOSED CELL BACKER ROD WHERE REQUIRED. INSTALL IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

14. JOINT SEALANT FOR VERTICAL APPLICATIONS SHALL BE ONE-COMPONENT, NON-SAG POLYURETHANE JOINT SEALANT SUCH AS MASTERSEAL NP 1 AS MANUFACTURED BY BASF, EUCOLASTIC 1NS AS MANUFACTURED BY EUCLID, OR APPROVED EQUIVALENT. UTILIZE A CLOSED CELL BACKER ROD WHERE REQUIRED. INSTALL IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

15. ADHESIVE ANCHORING SYSTEM SHALL HAVE A MINIMUM CHARACTERISTIC BOND STRENGTH EQUAL TO 650 PSI IN UNCRACKED CONCRETE AND 200 PSI IN CRACKED CONCRETE SUCH AS SIMPSON SET-XP, POWERS FASTENERS PE1000+, HILTI HIT-RE 500, OR APPROVED EQUAL. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION. INSTALL ADHESIVE ANCHORS IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

16. BASE PLATE GROUT SHALL BE THE FLOWABLE TYPE AND IT SHALL MEET THE REQUIREMENTS OF ASTM C1107 FOR NON-SHRINK, NON-METALLIC GROUT. MINIMUM GROUT STRENGTH SHALL BE 7,000 PSI AT 28 DAYS

STRUCTURAL STEEL NOTES:

1. DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, UNLESS NOTED OTHERWISE.

2. MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE STRUCTURAL STEEL....ASTM A992, GRADE 50
STRUCTURAL STEEL....ASTM A36
STRUCTURAL TUBING....ASTM A500, GRADE C, Fy (MIN) = 50 KSI
STRUCTURAL PIPE....ASTM A500, GRADE C, Fy (MIN) = 46 KSI
BOLTS....ASTM A325-N
WELDING ELECTRODES....AWS-A5.1, E70XX LOW HYDROGEN (OR EQUAL)
STEEL PIPE....ASTM A53, TYPE E OR S, GRADE B

3. ALL STRUCTURAL WELDING SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS SPECIFICATIONS D1.1. MINIMUM SIZE OF FILLET WELD SHALL BE 1/16" SMALLER THAN MATERIAL THICKNESS OF THICKER PART JOINED, UNLESS NOTED OTHERWISE. ELECTRODE STORAGE FOR LOW-HYDROGEN ELECTRODES SHALL BE STORED @ 250° WHEN EXPOSURE EXCEEDS REQUIREMENTS OF COLUMN A, TABLE 51 OF AWS. WELD CLEANING AND PAINTING OF COMPLETED WELDS SHALL BE IN ACCORDANCE WITH AWS.

4. UNLESS NOTED OTHERWISE ON THE PLANS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE AISC MANUAL FOR THE GIVEN SECTION AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF FRAMED CONNECTIONS BE LESS THAN ONE-HALF THE "T" DIMENSION OF THE BEAM WEB. CONNECTIONS INDICATED ON THE PLANS BY "*" SHALL CONTAIN THE MAXIMUM NUMBER OF ROWS OF BOLTS, AT 3" PITCH, THAT CAN BE FIT IN A CLIP ANGLE WHOSE LENGTH EQUALS THE "T" DIMENSION OF THE BEAM.

5. ALL BOLTED CONNECTIONS SHALL BE BEARING-TYPE USING 3/4" DIAMETER AND BROUGHT TO A SNUG TIGHT CONDITION. A325-N BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE.

6. SHOP CONNECTIONS MAY BE BOLTED OR WELDED.

7. FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE ON DRAWINGS.

8. ALL BEAMS SHALL FRAME INTO COLUMN (OR POST) FLANGES OR WEBS AND NOT PLACED ON TOP OF COLUMN CAP PLATES UNLESS INDICATED ON FRAMING PLAN AS A CONTINUOUS BEAM. IF A COLUMN CAP PLATE IS REQUIRED, THE ELEVATION FOR THE TOP OF COLUMN CAP PLATE SHALL MATCH TOP OF BEAM FRAMING TO THE COLUMN (OR POST), UNLESS NOTED OTHERWISE.

9. SURFACE PREPARATIONS FOR STRUCTURAL STEEL SUBJECT TO EXTERIOR ENVIRONMENTAL CONDITIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 (OR APPROVED EQUAL).

G.C. SHALL COORDINATE FINAL SURFACE PREP WITH ARCHITECT FOR HDG MEMBERS THAT REQUIRE A TOP COATING.

SURFACE PREPARATIONS FOR CONCEALED STRUCTURAL STEEL NOT SUBJECT TO EXTERIOR ENVIRONMENTAL CONDITIONS SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP3 (POWER TOOL CLEANING). PRIME STEEL WITH STANDARD SHOP PRIMER AT 2 MILS DFT. SHOP PRIMER SHALL BE COMPATIBLE WITH OVERCOAT.

APPLY COATING IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE TOP COAT COLOR WITH OWNER'S SPECIFICATIONS.

SURFACE PREPARATIONS FOR EXPOSED STRUCTURAL STEEL NOT SUBJECT TO EXTERIOR ENVIRONMENTAL CONDITIONS SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP6 (COMMERCIAL BLAST CLEANING). PRIME STEEL WITH STANDARD SHOP PRIMER AT 2 MILS DFT. SHOP PRIMER SHALL BE COMPATIBLE WITH OVERCOAT. COORDINATE W/ ARCH.

10. PROVIDE 3" CONCRETE COVER OVER ALL STEEL BELOW GRADE, EXPOSED TO WEATHER, OR SUBJECT TO MOISTURE.

11. WHEN STRUCTURAL STEEL SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC, CHAPTER 17 APPLY,
A. PER ANSI/ AISC 360-16, "TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED FOR QC ARE THOSE INSPECTIONS PERFORMED BY THE QCI (TESTING AGENCY) TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS."
B. ALL PJP AND CJP WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
C. ALL MULTIPASS FILLET WELDS SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
D. SINGLE-PASS FILLET WELDS GREATER THAN 5/16" SHALL BE CONTINUOUSLY MONITORED DURING WELDING.
E. INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED DURING INSTALLATION.
F. VERIFICATION OF HIGH STRENGTH BOLTS WILL BE REQUIRED.

12. PIPING GREATER THAN 4"∅ SHALL BE SUPPORTED @ 10'-0" O.C. MAX. AND SHALL BE CONSIDERED IN THE DESIGN.

13. THE G.C. MAY AT HIS OPTION, REQUEST TO USE A FLUX CORE ARC WELDING (FCAW) PROCESS OR A METAL INERT GAS (MIG) WELDING PROCESS BY SATISFYING THE FOLLOWING REQUIREMENTS:

A. SUBMIT WRITTEN WELDING PROCEDURES FOR THE WELDING PROCESS REQUESTED. ADDITIONALLY, THESE PROCEDURES ARE TO DESCRIBE THE QUALITY ASSURANCE/QUALITY CONTROL MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH AWS D1.1 AND THESE CONSTRUCTION DOCUMENTS.
B. PROVIDE WELDER QUALIFICATIONS PER NOTE 3, ABOVE.
C. PROVIDE A CONTINUOUS FEED WIRE THAT WILL FORM WELDS OF EQUAL OR GREATER STRENGTH THAN THE E70XX LOW HYDROGEN ELECTRODES LISTED IN NOTE 2, ABOVE.

14. ALL COLUMN SPLICES SHALL BE DESIGNED BY STEEL FABRICATOR.

COMPONENT AND CLADDING DESIGN AREA 'A' MID, LOW AREA 'B', 'C', & 'D' WIND PRESSURES (PSF)

ROOF SURFACE PRESSURES

Area	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
Negative Zone 1	-53.2	-49.7	-45.0	-41.5	-38.0	-35.2	-33.4	-33.4
Negative Zone 1'	-30.6	-30.6	-30.6	-30.6	-26.3	-22.9	-20.7	-16.4
Negative Zone 2	-70.2	-65.7	-59.7	-55.2	-50.7	-47.0	-44.7	-44.7
Negative Zone 3	-95.6	-86.6	-74.7	-65.7	-56.6	-49.3	-44.7	-44.7
Positive All Zones	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Overhang Zone 1&1'	-48.1	-47.2	-46.1	-45.3	-38.0	-32.1	-28.3	-28.3
Overhang Zone 2	-65.1	-59.1	-51.1	-45.1	-39.1	-34.2	-31.1	-31.1

PARAPET SURFACE PRESSURES

SOLID PARAPET PRESSURE		10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A:	ZONE 2:	93.9	87.9	79.9	73.8	67.8	59.8
	ZONE 3:	119.5	109.0	95.0	84.4	73.8	59.8
CASE B:	INTERIOR ZONE:	-59.8	-56.7	-52.7	-49.7	-46.7	-42.7
	CORNER ZONE:	-68.3	-63.8	-57.8	-53.2	-48.7	-42.7

WALL SURFACE PRESSURES

Area	10 sf	100 sf	200 sf	500 sf
Negative Zone 4	-36.2	-31.2	-29.7	-27.7
Negative Zone 5	-44.7	-34.7	-31.7	-27.7
Positive Zone 4 & 5	33.4	28.4	26.9	24.9

NOTES:
1) TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2) POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
3) SEE DIAGRAMS FOR LOCATION OF ZONES.
4) PRESSURES SHOWN ARE ULTIMATE PRESSURES, MULTIPLY BY 0.6 FOR NOMINAL PRESSURES.
5) (#) NUMBERS OUTSIDE OF ROOF LINE ARE WALL PRESSURES ZONES.

h = 35 ft
0.6h = 21 ft
0.2h = 7 ft

STEEL DECK NOTES:

1. DESIGN, FABRICATION, AND ERECTION OF ALL STEEL DECK SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.

2. ROOF DECK TO BE 1½" DEEP, 22 GAGE WIDE RIB (TYPE B) GALVANIZED WITH G-90 COATING.

2a. ROOF DECK TO BE ATTACHED WITH A 36/5 FASTENING PATTERN AT INTERIOR SUPPORTS OF DECK PANELS, WITH A 36/7 PATTERN AT END LAPS, AND 6" AT PERIMETER OF ROOF. FASTENING TO SUPPORTS SHALL BE MADE WITH #12 SELF-DRILLING SCREWS. INSTALL (1) NO. 10 SIDELAP SCREWS BETWEEN ALL DECK SUPPORTS SP. @ 16" O.C.

3. ROOF DECK TO BE 1 1/2" DEEP, 22 GAGE (TYPE A) ACOUSTICAL DECK GALVANIZED WITH G-90 COATING AND THE UNDERSIDE PRIMED FOR PAINTING.

3a. ROOF DECK TO BE ATTACHED WITH A 36/5 FASTENING PATTERN AT INTERIOR SUPPORTS OF DECK PANELS, WITH A 36/7 PATTERN AT END LAPS, AND 6" AT PERIMETER OF ROOF. FASTENING TO SUPPORTS SHALL BE MADE WITH #12 SELF-DRILLING SCREWS. INSTALL (1) NO. 10 SIDELAP SCREWS BETWEEN ALL DECK SUPPORTS SP. @ 16" O.C.

4. COMPOSITE FLOOR DECK TO BE 1.5VL 20 GA. PAINTED DECK.

4a. FLOOR DECK TO BE ATTACHED WITH A 36/5 FASTENING PATTERN AT INTERIOR SUPPORTS OF DECK PANELS, WITH A 36/7 PATTERN AT END LAPS, AND 6" AT PERIMETER OF ROOF. FASTENING TO SUPPORTS SHALL BE MADE WITH #12 SELF-DRILLING SCREWS. INSTALL (1) NO. 10 SIDELAP SCREWS BETWEEN ALL DECK SUPPORTS SP. @ 16" O.C.

5. ALL WELDS ARE TO BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS, D1.3.

6. GC SHALL REFER TO THE MECHANICAL, PIPING AND ARCHITECTURAL DRAWINGS FOR EXHAUST DUCT AND OTHER ROOF PENETRATIONS THAT REQUIRE DECK SUPPORT ANGLES. PROVIDE MISCELLANEOUS STEEL OR SUPPORT ANGLES AROUND COLUMNS AND OTHER FLOOR AND ROOF PENETRATIONS AND OPENINGS TO SUPPORT THE ENDS AND EDGES OF METAL DECK.

7. ANY DECK OPENING WHOSE WIDTH EXCEEDS 12" OR (2) CONSECUTIVE DECK RIBS SHALL HAVE ADDITIONAL SUPPORT FRAMING PER THE TYPICAL DECK SUPPORT FRAMING DETAIL, A3 / S310

8. GENERAL CONTRACTOR SHALL COORDINATE DECK END LAPS WITH ROOF FRAMING PLAN AND FINAL FRAMING LAYOUT.

NOTES:
WINDWARD PARAPET: LOAD CASE A
1. WINDWARD PARAPET PRESSURE (P1) IS DETERMINED USING THE POSITIVE WALL PRESSURE (P5) ZONES 4 OR 5.
2. LEEWARD PARAPET PRESSURE (P2) IS DETERMINED USING THE NEGATIVE ROOF PRESSURE (P1) ZONES 2 OR 3.

LEEWARD PARAPET: LOAD CASE B
1. WINDWARD PARAPET PRESSURE (P3) IS DETERMINED USING THE POSITIVE WALL PRESSURE (P5) ZONES 4 OR 5.
2. LEEWARD PARAPET PRESSURE (P4) IS DETERMINED USING THE NEGATIVE WALL PRESSURE (P6) ZONES 4 OR 5.

C&C WIND LOAD DIAGRAM

A3
S001
1" = 30'-0"

TABLE 19.3.2.1 - REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS		
EXPOSURE CLASS	MAX. w/cm	MIN. f'c, psi
F0	N/A	2500
F1	0.55	3500
F2	0.45*	4500
F3	0.40	5000

* UNLESS OTHERWISE NOTED

TABLE 19.3.3.1 - TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO CYCLES OF FREEZING AND THAWING		
NOMINAL MAXIMUM AGGREGATE SIZE, IN.	TARGET AIR CONTENT, PERCENT	
	F1	F2 & F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6

DRAWING INDEX

Sheet Number	Sheet Name
S001	PROJECT NOTES & DESIGN CRITERIA
S002	PROJECT NOTES
S003	SPECIAL INSPECTION NOTES
S004	SOIL NAIL RETAINING WALL NOTES
S010	OVERALL DIMENSION PLAN
S100A.1	FOUNDATION & S.O.G PLAN - AREA 'A' BASEMENT (F. FLR. ELEV. = 843.40' = 0'-0")
S100A.2	FOUNDATION & S.O.G. PLAN - AREA 'A' LEVEL 1000
S100B	FOUNDATION & S.O.G. PLAN - AREA 'B' LEVEL 1000
S100C	FOUNDATION & S.O.G. PLAN - AREA 'C' LEVEL 1100
S101	RETAINING WALL PLAN
S102	NORTH DOCK AND RAMP PLAN, SECTIONS & DETAILS
S110	FOUNDATION SECTIONS & DETAILS
S111	FOUNDATION SECTIONS & DETAILS
S112	FOUNDATION SECTIONS & DETAILS
S113	FOUNDATION SECTIONS & DETAILS
S114	FOUNDATION SECTIONS & DETAILS
S115	ALTERNATE 1 COOLING TOWER FDN. DETAILS
S200	1000 LEVEL LINTEL PLAN - AREA 'A'
S201	1000 LEVEL LINTEL PLAN - AREA 'B'
S202	1100 LEVEL LINTEL PLAN - AREA 'A'
S203	1100 LEVEL LINTEL PLAN - AREA 'B'
S204	1100 LEVEL LINTEL PLAN - AREA 'C'
S205	1200 LEVEL LINTEL PLAN - AREA 'A'
S206	1200 LEVEL LINTEL PLAN - AREA 'B'
S207	1200 LEVEL LINTEL PLAN - AREA 'C'
S208	LINTEL SECTIONS & DETAILS
S209	LINTEL SECTIONS & DETAILS
S210	STAIR ELEVATIONS & SECTIONS
S301A	1100 LEVEL FRAMING PLAN - AREA 'A'
S301B	1100 LEVEL FRAMING PLAN - AREA 'B'
S302A	1200 LEVEL FRAMING PLAN - AREA 'A'
S302B	1200 LEVEL FRAMING PLAN - AREA 'B'
S302C	1200 LEVEL FRAMING PLAN - AREA 'C'
S303A	ROOF FRAMING PLAN - AREA 'A'
S303B	ROOF FRAMING PLAN - AREA 'B'
S303C	ROOF FRAMING PLAN - AREA 'C'
S304	HIGH ROOF FRAMING PLANS
S310	FRAMING SECTIONS & DETAILS
S311	FRAMING SECTIONS & DETAILS
S400	FRAMING ELEVATIONS
S401	FRAMING ELEVATIONS
S402	FRAMING ELEVATIONS
S403	COLD FORMED STL. FRAMING DETAILS (SUGGESTED)

NOT FOR CONSTRUCTION
FOR PRICING ONLY

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ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
PROJECT NOTES & DESIGN CRITERIA

SHEET NO. S001
PROJ. NO. 20242

COLD-FORMED STEEL (CFS) DESIGNATION:

1. COLD-FORMED METAL FRAMING DIMENSIONS SHALL MEET OR EXCEED THE INDUSTRY STANDARDS PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

600 S 162 - 43
- 600: DEPTH
- S: MEMBER TYPE
- 162: FLANGE WIDTH
- 43: METAL THICKNESS

A. THE DEPTH OF THE MEMBER IS INDICATED TO THE SECOND DECIMAL PLACE WITHOUT THE USE OF A DECIMAL POINT: 362 = 3.62", 600 = 6.00", 800 = 8.00", 1000 = 10.00"

B. THE MEMBER TYPE REPRESENTS THE SHAPE OF THE MEMBER. THERE ARE FOUR STANDARD SHAPES: S = "C" SHAPED MEMBER, T = TRACK, F = FURRING OR HAT CHANNEL, U = "U" OR BRIDGING CHANNEL

C. THE FLANGE WIDTH OF THE MEMBER IS INDICATED TO THE SECOND DECIMAL PLACE WITHOUT THE USE OF A DECIMAL POINT: 162 = 1.62", 200 = 2.00", 250 = 2.50"

D. THE METAL THICKNESS IS IN THE MINIMUM UNCOATED METAL THICKNESS EXPRESSED IN MILS (THOUSANDTHS OF AN INCH). THESE THICKNESSES CORRESPOND TO THE FOLLOWING GAUGES: -18 (25 GA.), -27 (22 GA.), -30 (20 GA.), -33 (20 GA. STRUCTURAL), -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.). THESE MIL THICKNESSES ARE 5% LESS THAN THE DESIGN THICKNESS AS PERMITTED PER THE AISI SPECIFICATION.

2. LOAD-BEARING STUDS, JOISTS, AND RAFTERS SHALL BE GALVANIZED 50ksi MATERIAL AND SHALL BE EQUAL TO, OR LARGER, THAN THE CFS FRAMING INDICATED ON THE DRAWINGS AND SHALL BE 54 MIL. MIN., U.N.O.

LINTEL SECTIONS: GALVANIZED DOUBLE BOXED JOISTS, DEPTH AND GAGE AS SHOWN ON DRAWINGS, WITH 16 GAGE CHANNEL RUNNER ATTACHED TO TOP AND BOTTOM. MINIMUM STRUCTURAL PROPERTIES FOR EACH STUD USED FOR LINTEL SHALL BE EQUAL TO THAT INDICATED.

3. COLD-FORMED METAL FRAMING CONTRACTOR SHALL DESIGN EXTERIOR WALL FRAMING (ALL CFS ITEMS COVERED BY DIVISION 5 IN THE SPECIFICATIONS), CANOPY SUPPORT DETAILS AND FRAMING, INTERIOR WALL FRAMING & HEADERS, AND ALL FRAMING CONNECTIONS AND ELEMENTS NOT SHOWN ON CONTRACT DOCUMENTS. SUBMIT P.E. SEALED DESIGN CALCULATIONS, SKETCHES, DETAILS, ETC. SHOWING METAL FRAMING STUDS, HEADERS, LINTELS, LOCATION, LAYOUT, SPACING SIZES, THICKNESSES AND TYPES OF COLD-FORMED FASTENERS, SUPPLEMENTAL FRAMING, STRAPPING, STABILIZING BRACING AT TOP OF INTERIOR WALLS, SPLICES, ACCESSORIES, CONNECTION DETAILS AND ATTACHMENTS TO OTHER COMPONENTS, UNLESS SPECIFICALLY SHOWN ON CONTRACT DOCUMENTS.

4. LOCATE WALL STUDS DIRECTLY BELOW ALL RAFTERS OR JOISTS. PROVIDE A MINIMUM OF TWO (2) STUDS BELOW ALL GIRDER TRUSS BEARING LOCATIONS OR BEAMS, U.N.O.

5. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.", AISI S100.

6. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, GRADE A (33 KSI MIN. YIELD) FOR 18 GAGE AND LIGHTER AND ASTM A653, GRADE D (50 KSI MIN YIELD) FOR 16 GAGE AND HEAVIER. CHANNEL RUNNERS MAY BE 33 KSI FOR ANY GAGE. STRUCTURAL MEMBERS SHALL CONFORM TO ASTM C955.

7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDED. SCREWS SHALL BE SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.

8. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE.

9. COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR BOTTOM RUNNER.

10. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO BOTH FLANGES AT TOP AND BOTTOM RUNNERS.

11. EXTERIOR AND BEARING WALLS SHALL HAVE MID-HEIGHT BRIDGING OR BRIDGING SPACED AT 60" MAX.

12. ISOLATE NON-BEARING FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT. INSTALL VERTICAL SLOTTED TRACKS AND ANCHOR TO BUILDING STRUCTURE.

13. LIMIT LATERAL DEFLECTION OF EXTERIOR WALLS TO L/600 OF THE WALL HEIGHT BACKING BRICK VENEER. LIMIT LATERAL DEFLECTION OF ALL OTHER STRUCTURAL WALLS TO L/240 OF THE WALL HEIGHT.

14. A 1" MINIMUM CLEARANCE SHALL BE MAINTAINED FROM ALL EDGES OF STEEL MEMBERS. A 1" MINIMUM ON CENTER SPACING SHALL BE MAINTAINED BETWEEN ADJACENT FASTENERS.

15. POWDER DRIVEN FASTENERS (PDF) SHALL BE SIMPSON STRONG-TIE PDPA-75 (0.157x3/4") FOR FASTENING TO CONCRETE AND PDPA-50K (0.157x1/2" KNURLED) FOR FASTENING TO STEEL, OR APPROVED EQUAL. POWDER DRIVEN FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

16. SELF-DRILLING SCREWS (SDS) SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE, OR APPROVED EQUAL. SCREWS SHALL PENETRATE THROUGH JOINED MATERIALS NOT LESS THAN (3) EXPOSED TREADS. SCREWS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

17. IF WELDED CONNECTIONS ARE REQUIRED, MINIMUM WELD THROAT MUST NOT EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE. ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH AWS SPECIFICATIONS. PAINT ALL WELDS WITH A ZINC RICH PAINT.

18. DEFLECTION TRACK SHALL BE 16 GAUGE (MINIMUM) W/ 3" FLANGES SLOTTED 2" LONG x 1/4" WIDE AT 1" CENTERS. MAINTAIN 3/4" TO 1" GAP BETWEEN TOP OF STUD AT TRACK.

19. COVER PLATE PUNCHOUTS IN STUDS/JOISTS WITHIN 4" OF CONNECTION/BEARING TO STRUCTURE WITH 14 GAUGE PLATE. FASTEN COVER PLATE TO STUD WITH #10 SDS IN EACH CORNER AND ALONG EACH EDGE AT 2" CENTERS.

CONCRETE RETAINING WALL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:

ACI 301....."SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 304....."RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
ACI 305....."HOT WEATHER CONCRETING"
ACI 306....."COLD WEATHER CONCRETING"
ACI 309....."RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE"
ACI 311....."RECOMMENDED PRACTICE FOR CONCRETE INSPECTION"
ACI 347....."RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

2. MATERIALS SHALL MEET THE FOLLOWING, UNLESS NOTED OTHERWISE:

CONCRETE..... 4500 PSI* WITH 7.5% ± 1.0% AIR ENTRAINING FOR WALLS W/ 3/8" DIA. COURSE AGGREGATE
4500 PSI* WITH 6.0% ± 1.0% AIR ENTRAINING FOR WALLS W/ 3/4" DIA. COURSE AGGREGATE
3000 PSI* FOR FOOTINGS
REINFORCING BARS ASTM A615, GRADE 60
EMBEDDED PLATES AND ANCHORS ASTM A36, HOT-DIPPED GALVANIZED
FORM TIES FACTORY-FABRICATED, 16-GAGE MINIMUM
EXPANSION JOINTS ASTM D1751

*MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. CONCRETE IN WALLS TO ALSO HAVE A HIGH RANGE WATER REDUCER (HRWR). SLUMP FOR WALLS TO BE 3 INCHES BEFORE ADDING HRWR AND 6 TO 8 INCHES AFTER ADDING HRWR. SLUMP FOR FOOTINGS TO BE 2 TO 4 INCHES.

3. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

4. ALL REINFORCING SPLICES SHALL BE AS SCHEDULED BELOW (UNLESS NOTED OTHERWISE):
#3 - 18" #4 - 24" #5 - 30" #6 - 36"

5. ALL CONTINUOUS REINFORCING BARS SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS OF WALLS AND FOUNDATIONS. USE MINIMUM TEMPERATURE REINFORCING AS CALLED FOR BY ACI 318 WHERE REINFORCING IS NOT SHOWN.

6. EXPOSED WALL SHALL BE POINTED AND RUBBED WITHIN 12 HOURS OF FORM REMOVAL.

7. PLACE CONCRETE IN WALL AS NEAR AS POSSIBLE TO ITS FINAL LOCATION TO AVOID SEGREGATION OF MIX. DO NOT PERMIT CONCRETE TO FALL FREE IN EXCESS OF 4'-0". PLACE CONCRETE IN WALLS WITH A TREMIE, AS REQUIRED.

8. CJ = CONTRACTION JOINT (WEAKENING PLANE) SHALL BE PLACED AT INTERVALS OF 20 TO 30 FEET WITH EVERY FIFTH JOINT BEING A KEYED EXPANSION JOINT. WEAKENED PLANE JOINTS SHALL BE MADE EITHER WITH SUITABLE RUBBER STRIPS PLACED VERTICALLY, FULL HEIGHT IN EACH FACE OF THE WALL OR WITH WOOD STRIPS SIMILARLY PLACED BUT REMOVED AFTER FORM REMOVAL AND REPLACED WITH MASTIC CAULKING. ALTERNATE HORIZONTAL BARS ARE TO BE CUT AT THESE JOINTS.

9. CONTRACTOR SHALL NOT ALLOW HEAVY VEHICLES (I.E. AXLE WEIGHT GREATER THAN 5000 LBS.) WITHIN THE TOP ONE-THIRD OF WALL FOR A HORIZONTAL DISTANCE EQUAL TO THE HEIGHT OF THE WALL DURING BACKFILLING OPERATION.

10. CONCRETE TEST CYLINDERS AND SLUMP TESTS ARE TO BE MADE FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF, OR FOR EACH 5,000 SQUARE FOOT OF SURFACE AREA PLACED. TEST RESULTS SHALL BE REPORTED IN WRITING TO THE ENGINEER WITHIN 48 HOURS AFTER TESTS ARE MADE.

SUBMITTALS:

1. FURNISH ELECTRONIC COPIES OF ALL SUBMITTALS AND SHOP DRAWINGS TO ENGINEER. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMITTAL. FABRICATOR SHALL ENSURE THAT ALL PLACEMENT AND DETAIL DRAWINGS ARE CHECKED IN-HOUSE PRIOR TO SUBMITTAL. DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER ARE SUBJECT TO REJECTION. ALL ELECTRONIC SUBMITTALS SHALL INCLUDE THE GENERAL CONTRACTOR'S REVIEW COMMENTS WHEN THEY ARE TRANSMITTED TO THE ENGINEER".

2. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, QUANTITIES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

3. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:

CONCRETE "READY-MIX" DESIGNS.....YES ☒ NO ☐

UNIT COST OF ALL ITEMS ASSOCIATED WITH FOUNDATION CONSTRUCTION.....YES ☐ NO ☒

CONCRETE COMPRESSION TEST REPORTS.....YES ☒ NO ☐

MASONRY PRODUCT SUBMITTAL.....YES ☒ NO ☐

REINFORCING SHOP DRAWINGS.....YES ☒ NO ☐

STRUCTURAL STEEL SHOP DRAWINGS.....YES ☒ NO ☐

FABRICATION SHOP CONNECTION STANDARDS.....YES ☐ NO ☒

P.E. SEALED CALCULATIONS FOR:
A. FRAMED BEAM CONNECTIONS - AISC 15TH EDITION TABLES 10-1, I0-2, I0-3 (UNLESS NOTED ON DWGS).....YES ☐ NO ☒
B. SEATED BEAM CONNECTIONS.....YES ☒ NO ☐
C. END PLATE SHEAR CONNECTIONS.....YES ☐ NO ☒
D. SINGLE PLATE SHEAR CONNECTIONS.....YES ☐ NO ☒
E. ECCENTRIC CONNECTIONS.....YES ☒ NO ☐
F. CONNECTIONS IN TENSION AND/OR COMPRESSION INCLUDING BRACING, BEAMS, HANGERS, ETC.....YES ☒ NO ☐
G. MOMENT CONNECTIONS.....YES ☒ NO ☐
H. LANDING HANGERS.....YES ☒ NO ☐
I. STAIR CALCULATIONS & SHOP DRAWINGS.....YES ☒ NO ☐

STEEL JOIST SHOP DRAWINGS.....YES ☐ NO ☒

STEEL DECK SHOP DRAWINGS.....YES ☒ NO ☐

PRECAST CONCRETE REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

PREFABRICATED WOOD ROOF TRUSS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

PRE-ENGINEERED CFS TRUSS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

PRE-ENGINEERED METAL BUILDING REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☐ NO ☒

COLD-FORMED METAL FRAMING REQUIREMENTS STIPULATED BY THE PROJECT NOTES (CALCULATIONS AND DRAWINGS).....YES ☒ NO ☐

AWNING AND FOR CANOPY CONNECTIONS (CALCULATIONS AND DRAWINGS).....YES ☒ NO ☐

FCAW OR MIG WELDING PROCESS REQUIREMENTS STIPULATED BY THE PROJECT NOTES.....YES ☒ NO ☐

POST-INSTALLED REBAR, ANCHORS AND FASTENERS

THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. G.C. TO SUBMIT WRITTEN REQUESTS FOR ANY SUBSTITUTIONS. PRODUCT DIAMETER AND EMBEDMENT SHALL BE AS SHOWN IN THE DETAILS. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). PRIOR TO INSTALLATION, CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT-SPECIFIC INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE ENGINEER-OF-RECORD (EOR) INDICATING TRAINING HAS TAKEN PLACE. UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS, REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR REQUIRED SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.

1. FOR ANCHORING INTO CONCRETE
   a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:
      1. **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)**
      2. **SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)**
   b. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN BOND STRENGTH HAS BEEN BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ** ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER WHEN REQUIRED PER ACI 318-14 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-14 D.9.2.4. PRE-APPROVED PRODUCTS INCLUDE:
      1. **SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)**
      2. **SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) (G.C. OPTION @ 50° F OR WARMER)**
      3. **SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3372) (G.C. OPTION @ 50° F OR WARMER)**
   c. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
      1. **SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)**
      2. **SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)**
2. FOR ANCHORING INTO MASONRY
   a. SOLID-GROUTED CONCRETE MASONRY
      1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)**
      2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)**
         2. **SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) (G.C. OPTION @ 50° F OR WARMER)**
         3. **SIMPSON STRONG-TIE "ET-HP" (IAPMO-UES ER-241) (G.C. OPTION @ 50° F OR WARMER)**
      3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)**
         2. **SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)**
   b. HOLLOW CONCRETE MASONRY
      1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "TITEN-HD"**
      2. ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) (TEMP. ABOVE 50° F)**
      3. SPOWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
         1. **SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)**
         2. **SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)**
3. FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
   a. **SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)**
   b. **SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)**

**HOLES SHALL BE DRILLED USING A DUST EXTRACTION DRILLING SYSTEM CONSISTING OF A HOLLOW DRILL BIT AND VACUUM. PREAPPROVED SYSTEMS: SIMPSON STRONG-TIE SPEED CLEAN DXS (FOR USE WITH SET-3G, AT-XP AND SET-XP)

STEEL FABRICATOR SHALL INCLUDE IN HIS BID PRICE AN ALLOWANCE FOR AN ADDITIONAL 25 TONS OF FABRICATED & ERECTED STRUCTURAL STEEL, DECK, & MISC. STEEL, AND 500 HEADED STUDS FOR COMPOSITE BEAMS. STEEL FABRICATOR SHALL KEEP A RECORD OF ANY STEEL CHARGED AGAINST THIS ALLOWANCE. ANY UNUSED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT AS A CREDIT ALONG WITH A COPY OF THE RECORD.

CFS SUBCONTRACTOR SHALL INCLUDE IN HIS BID PRICE AN ALLOWANCE FOR AN ADDITIONAL 5% BY WEIGHT OF EXTERIOR WALL FRAMING. EXTERIOR WALL FRAMING MEANS STRUCTURAL MEMBERS THAT ARE COVERED BY DIVISION 5 OF THE PROJECT SPECIFICATIONS. CFS SUBCONTRACTOR SHALL KEEP A RECORD OF ANY STEEL CHARGED AGAINST THIS ALLOWANCE. ANY UNUSED PORTION OF THIS ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE COMPLETION OF THE PROJECT AS A CREDIT ALONG WITH A COPY OF THE RECORD.

TYPICAL ABBREVIATIONS:

A.R.....ANCHOR ROD
ACI.....AMERICAN CONCRETE INSTITUTE
AISC.....AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI.....AMERICAN IRON AND STEEL INSTITUTE
APA.....AMERICAN PLYWOOD ASSOCIATION
ARCH.....ARCHITECTURAL
AFPA.....AMERICAN FOREST AND PAPER ASSOCIATION
ASCE.....AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS
BaSE INC....BAILEY & SON ENGINEERING, INC.
BC.....BOTTOM CHORD
B/.....BOTTOM OF
BLKG.....BLOCKING
B.O.D.....BOTTOM OF DECK
BRG.....BEARING
C.J.....CONTROL JOINT
CL.....CENTER LINE
CLR.....CLEAR
CMU.....CONCRETE MASONRY UNIT
CONT.....CONTINUOUS
CRC.....COLD ROLLED CHANNEL
D.B.E.....DECK BEARING ELEVATION
DBL.....DOUBLE
DIA.....DIAMETER
DL.....DEAD LOAD
(E).....EXISTING
E.W.....EACH WAY
E.O.S.....EDGE OF SLAB
E.N.....EDGE NAIL
FIN.....FINISHED OR FINAL
FIN.FLR.....FINISHED FLOOR
FLR.....FLOOR
Fc.....SPECIFIED CONCRETE STRENGTH @ 28 DAYS
F.O.B.....FACE OF BRICK
F.O.M.....FACE OF MASONRY
F.S.....FAR SIDE
FT.....FOOT OR FEET
GA.....GAUGE
GALV.....GALVANIZED
GLB.....GLU-LAMINATED BEAM
HD.....HOLDOWN
HDR.....HEADER
HORIZ.....HORIZONTAL
HSS.....HOLLOW STRUCTURAL SECTION
IBC.....INTERNATIONAL BUILDING CODE
IN.....INCH OR INCHES
IRC.....INTERNATIONAL RESIDENTIAL CODE
ICBO.....INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC.....INTERNATIONAL CODE COUNCIL
J.B.E.....JOIST BEARING ELEVATION
K.....KIP
LB.....POUND
LL.....LIVE LOAD
LLH.....LONG LEG HORIZONTAL
LLV.....LONG LEG VERTICAL
LSL.....LAMINATED STRAND LUMBER
LVL.....LAMINATED VENEER LUMBER
LBW.....LOAD BEARING WALL
JT.....JOINT
JST.....JOIST
JH.....JOIST HANGER
MFR.....MANUFACTURER
MAX.....MAXIMUM
MIN.....MINIMUM
ML.....MATCHLINE
(N).....NEW
NTS.....NOT TO SCALE
O.C.....ON CENTER
O.E.....OUTSIDE EDGE
O.H.....OPPOSITE HAND
OSB.....ORIENTED STRAND BOARD
OWT.....OPEN WEB TRUSS
PAF.....POWDER ACTUATED FASTENER
PDF.....POWDER DRIVEN FASTENER
P.E.N.....PANEL EDGE NAIL
P.E.M.B.....PRE-ENGINEERED METAL BUILDING
PF.....PARTIAL FRAME
PL.....PLATE
PLCS.....PLACES
PLF.....POUNDS PER LINEAR FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
PSL.....PARALLEL STRAND LUMBER
PT.....PRESSURE TREATED
REINF.....REINFORCING, REINFORCEMENT
RF.....RIGID FRAME
RMG.....REINFORCED MASONRY GROUT
SHTG.....SHEATHING
SJI.....STEEL JOIST INSTITUTE
SDI.....STEEL DECK INSTITUTE
SEOR.....STRUCTURAL ENGINEER OF RECORD
SOG.....SLAB ON GRADE
SP.....SPACED, SPACING
SQ.....SQUARE
STL.....STEEL
T.....TON (2000 LBS.)
T&B.....TOP AND BOTTOM
TC.....TOP CHORD
T/.....TOP OF
THKD.....THICKENED
T.O.C.....TOP OF CONCRETE
TS.....THICKENED SLAB
TYP.....TYPICAL
UNO.....UNLESS NOTED OTHERWISE
V.B.....VAPOR BARRIER
VERT.....VERTICAL
VIF.....VERIFY IN FIELD
VWA.....VERIFY WITH ARCHITECT
WWF.....WELDED WIRE FABRIC
YD.....YARD (3 FT.)
Ø.....DIAMETER

ATTENTION: ANY USE AND/OR REUSE OF ORIGINAL OR ALTERED CAD FILES TRANSMITTED BY THE CONSULTANT SHALL BE AT THE SOLE RISK OF THE USER. THE CONSULTANT SHALL NOT BE LIABLE FOR ANY DAMAGES OR COST CONNECTED IN WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE FILES.

SPECIAL NOTE TO FABRICATOR:
THE DETAILER SHALL WORK WITH THE STRUCTURAL AND ARCHITECTURAL DOCUMENTS WHILE PREPARING SHOP DRAWINGS. THE DETAILER SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. IF THE DETAILER ELECTS TO SCALE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN, THE DETAILER SHALL SUBMIT SHOP DRAWINGS THAT REQUEST ARCHITECTURAL VERIFICATION OF SCALED DIMENSIONS WHEN SUBMITTED FOR APPROVAL.

SPECIAL NOTE TO CONTRACTOR AND FABRICATOR:
WALL, DOOR, WINDOW LOCATIONS; AND LIMITS OF SLAB ON GRADE EDGES, RECESSED, DEPRESSED AND SLOPED AREAS, AND LIMITS OF ROOF & FLOOR DECK (EDGES & OPENINGS) ARE PRIMARILY THE RESPONSIBILITY OF THE ARCHITECT. CONTRACTOR SHALL ESTABLISH OR DETERMINE SUCH INFORMATION BASE ON ARCHITECTURAL DOCUMENTS PRIOR TO ANY FABRICATION OR CONSTRUCTION OF CONCRETE OR STEEL.

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
PROJECT NOTES

SHEET NO. S002
PROJ. NO. 20242

SPECIAL INSPECTION

1. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING DEPARTMENT AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING PERIODIC INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY THE OWNER.

2. SPECIAL INSPECTOR(S) SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED IN THE BUILDING CODE.

3. SPECIAL INSPECTION AND TESTING SHALL MEET THE REQUIREMENTS OF IBC SECTIONS 1704 AND 1705.

4. SPECIAL INSPECTOR(S) SHALL PERFORM THE FOLLOWING:

A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS

B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTIONS OF THE CONTRACTOR FOR CORRECTION. THEN, IF NOT CORRECTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT.

C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE PROVISIONS OF THE IBC.

5. SPECIAL INSPECTION NOTES:

A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS NOTED OTHERWISE.

B. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF THE FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN IBC SECTION 1704.2.5 AND UNLESS NOTED OTHERWISE.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY OF THE INITIATION OF ANY WORK REQUIRING SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.

1704.2.4
REPORT REQUIREMENTS

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. SPECIAL INSPECTOR TO KEEP RECORD OF SPECIAL INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	X	-		1704.2.4	☒	☐

1704.2.5
INSPECTION OF FABRICATED ITEMS

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. WORK DONE IN FABRICATOR SHOP REQUIRES INSPECTOR UNLESS THE FABRICATOR IS REGISTERED AND APPROVED ACCORDING TO IBC 1704.2.5.1. WHERE FABRICATOR IS APPROVED, PROVIDE FABRICATOR CERTIFICATION DOCUMENT.	-	X		1704.2.5 DOCUMENT REQUIRED	☒	☐
2. AT COMPLETION OF FABRICATION, SUBMIT CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL STATING THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	X		1704.2.5.1 DOCUMENT REQUIRED	☒	☐

1704.3
STATEMENT OF SPECIAL INSPECTIONS

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PREPARE A STATEMENT OF SPECIAL INSPECTIONS.	-	X		1704.3 (THIS DOCUMENT)	☒	☐

1704.4
CONTRACTOR RESPONSIBILITY

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY.	-	X		1704.4 (PAGE 4 DOCUMENT REQUIRED)	☒	☐

1704.5
SUBMITTALS TO THE BUILDING OFFICIAL

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
IN ADDITION TO THE SUBMITTAL REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL FOR EACH OF THE FOLLOWING.	X	-		1704.5	☒	☐
1. CERTIFICATES OF COMPLIANCE FOR THE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES ON THE PREMISES OF A REGISTERED AND APPROVAL FABRICATOR IN ACCORDANCE WITH SECTION 1704.2.5.1	X	-	SEC. 1704.2.5.1 (FABRICATOR)	1704.5	☒	☐
2. CERTIFICATES OF COMPLIANCE FOR THE SEISMIC QUALIFICATION OF NONSTRUCTURAL COMPONENTS, SUPPORTS AND ATTACHMENTS IN ACCORDANCE WITH SECTION 1705.13.2	X	-	SEC. 1705.13.2	1704.5	☒	☐
3. CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH SECTION 1705.13.3	X	-	SEC. 1705.13.3	1704.5 AND 1704.3.2	☐	☒
4. REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE IN ACCORDANCE WITH SECTION 1908.5	X	-	SEC. 1908.5	1704.5	☐	☒
5. CERTIFICATES OF COMPLIANCE FOR OPEN WEB STEEL JOIST AND JOIST GIRDERS IN ACCORDANCE WITH SECTION 2207.5	X	-	SEC. 2207.5	1704.5	☐	☒
6. REPORTS OF MATERIAL PROPERTIES VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR WELDABILITY AS SPECIFIED IN SECTION 26.6.4 OF ACI 318 FOR REINFORCING BAR IN CONCRETE COMPLYING WITH A STANDARD OTHER THAN ASTM A706 THAT ARE TO BE WELDED.	X	-	AWS D1.4 SEC. 26.6.4 OF ACI 318 ASTM A706	1704.5	☐	☒
7. REPORTS OF MILL TESTS IN ACCORDANCE WITH SECTION 20.2.2.5 OF ACI 318 FOR REINFORCING BARS COMPLYING WITH ASTM A615 AND USED TO RESIST EARTHQUAKE-INDUCED FLEXURAL OR AXIAL FORCES IN THE SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS CONNECTING SPECIAL STRUCTURAL WALLS OF SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E, OR F.	X	-	SEC. 20.2.2.5 OF ACI 318 ASTM A615	1704.5	☐	☒

1704.6
SPECIAL INSPECTIONS FOR STRUCTURAL OBSERVATION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATION. PRIOR TO COMMENCEMENT OF OBSERVATION, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT IDENTIFYING FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.	-	X		1704.6.1, 1704.6.2, AND 1704.6.3	☐	☒

1705.2.1
STEEL CONSTRUCTION INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.	-	X	AISC 360	1705.2.1	☒	☐

1705.2.2 TO 1705.2.4
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.			ASTM STANDARDS	1705.2.1	☒	☐
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AISC 360, SEC. A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	1705.2	☒	☐
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	-	X		1705.2	☒	☐
2. INSPECTION OF WELDING.						
a. COLD-FORMED STEEL DECK.						
a (1). FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.3	1705.2	☐	☒
b. REINFORCING STEEL.		-		1705.2		
b (1). VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.		X	AWS D1.4 ACI 318: 3.5.2	1705.2	☐	☒
b (2). REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES.	X	-	AWS D1.4 ACI 318: 3.5.2	1705.2	☐	☒
b (3). SHEAR REINFORCEMENT.	X	-	AWS D1.4 ACI 318: 3.5.2	1705.2	☐	☒
b (4). OTHER REINFORCING STEEL.	-	X	AWS D1.4 ACI 318: 3.5.2	1705.2	☐	☒

TABLE 1705.2.3
INSPECTION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1.INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS.				TABLE 1705.2.3		
a. END CONNECTIONS - WELDING OR BOLTED.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	☐	☒
b. BRIDGING - HORIZONTAL OR DIAGONAL.				TABLE 1705.2.3		
b (1). STANDARD BRIDGING.	-	X	SJI SPECIFICATION LISTED IN SEC. 2207.1	TABLE 1705.2.3	☐	☒
b (2) BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SEC. 2207.1.	-	X		TABLE 1705.2.3	☐	☒

TABLE 1705.3
REQUIRED VERIFICATION AND SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED STANDARD	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3, & 35	1908.4, TABLE 1705.3	☒	☐
2. REINFORCING BAR WELDING						
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	X	AWS D1.4 ASI 318: Ch. 26.6.4	1905, TABLE 1705.3	☐	☒
b. INSPECT SINGLE-PASS WELDS, MAXIMUM 5/16"	-	X				
c. INSPECT ALL OTHER WELDS	X	-				
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	-	X	ACI 318: Ch. 17.8.2	1905, TABLE 1705.3	☒	☐
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.						
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION.	X	-	ACI 318: Ch. 17.8.2.4	TABLE 1705.3	☒	☐
b. MECH. ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	-	X	ACI 318: Ch. 17.8.2.	TABLE 1705.3	☒	☐
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, TABLE 1705.3	☒	☐
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: Ch. 26.5 & 26.12	1908.10, TABLE 1705.3	☒	☐
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: Ch. 26.5	1908.6 1908.7 & 1908.8, TABLE 1705.3	☒	☐
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: Ch. 26.5.3 - 26.5.5	1908.9, TABLE 1705.3	☒	☐
9. INSPECTION OF PRE-STRESSED CONCRETE.						
a. APPLICATION OF PRE-STRESSING FORCE.	X	-	ACI 318: Ch. 26.10	TABLE 1705.3	☐	☒
b. GROUTING OF BONDED PRE-STRESSING TENDONS.	X	-				
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9	TABLE 1705.3	☐	☒
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: Ch. 26.11.2	TABLE 1705.3	☐	☒
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: Ch. 26.11.1(b)	TABLE 1705.3	☐	☒

1705.4
MASONRY CONSTRUCTION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
SPECIAL INSPECTIONS AND TESTS MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602 AND VERIFIED PER STANDARDS.	-	X	TMS 402 & 602	1705.4	☒	☐
1. EMPIRICALLY DESIGN MASONRY, GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV.	X	-	SECTION 2109, 2110 OR Ch. 14, SECTION 1604.5, SHALL COMPLY WITH TMS 602 LEVEL 2	1705.4.1	☐	☒
2. VERTICAL MASONRY FOUNDATION ELEMENTS.	-	X	IBC SEC. 1705.4	1705.4.2	☐	☒
3. PER TABLE 3.1 IN TMS 402 CODE, PROVIDE LEVEL 2 QUALITY ASSURANCE.	-	X	TMS 402	1705.4	☒	☐
4. TESTING AGENCY TO MEET AT LEAST THE MINIMUM VERIFICATION REQUIREMENTS FOR LEVEL 2 QUALITY ASSURANCE LISTED IN TABLES 3 AND 4 OF SECTION 1.6 OF TMS 602 SPECIFICATION.	-	X	TMS 602	1705.4	☒	☐

1705.5
WOOD CONSTRUCTION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. HIGH-LOAD DIAPHRAGMS	-	X	IBC SEC. 2306.2, SEC. 1704.2, APPROVED CONSTRUCTION DRAWINGS	1705.5.1	☐	☒
2. METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER	-	X	APPROVED TRUSS SUBMITTAL PACKAGE (BRACING)	1705.5.2	☐	☒

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X		TABLE 1705.6	☒	☐
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		TABLE 1705.6	☒	☐
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		TABLE 1705.6	☒	☐
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	X	-		TABLE 1705.6	☒	☐
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X		TABLE 1705.6	☒	☐

TABLE 1705.7
DRIVEN DEEP FOUNDATION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. VERIFY ELEMENT MATERIALS, SIZE AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-		TABLE 1705.7	☐	☒
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-		TABLE 1705.7	☐	☒
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.7	☐	☒
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-		TABLE 1705.7	☐	☒
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	-	-		SEC. 1705.2 & TABLE 1705.7	☐	☒
6. FOR CONCRETE ELEMENTS AND CONCRETE FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	-	-		SEC. 1705.3 & TABLE 1705.7	☐	☒
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-	-		1705.7	☐	☒

TABLE 1705.8
CAST-IN-PLACE DEEP FOUNDATION SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-		TABLE 1705.8	☐	☒
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETER, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-		TABLE 1705.8	☐	☒
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-		SEC. 1705.3 & TABLE 1705.8	☐	☒

1705.9
HELICAL PILE SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. INSTALLATION OF HELICAL PILE FOUNDATIONS	X	-	APPROVED GEOTECHNICAL REPORT AND REGISTERED DESIGN PROFESSIONAL	1705.9	☐	☒

1705.10
SPECIAL INSPECTION FOR FABRICATED ITEMS

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. SPECIAL INSPECTIONS FOR FABRICATED ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.2.5	-	X		SEC. 1704.2.5 & 1705.10	☒	☐

1705.11
SPECIAL INSPECTIONS FOR WIND RESISTANCE

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
WIND REQUIREMENTS FOR BUILDINGS AND STRUCTURES PER 1705.11				1705.11	☐	☒
1. STRUCTURAL WOOD				1705.11.1		
a. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	X	-		1705.11.1	☐	☒
b. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.	-	X		1705.11.1	☐	☒
2. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION.	-	X		1705.11.2	☐	☒
3. WIND-RESISTING COMPONENTS. 1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS. 2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	-	X		1705.11.3	☒ ☐	☐ ☒

1705.12
SPECIAL INSPECTION FOR SEISMIC RESISTANCE

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCED STANDARDS	IBC REFERENCE	REQUIRED	
	CONTINUOUS	PERIODIC			YES	NO
1. STRUCTURAL STEEL SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH SECTION 1705.12.1.1 OR 1705.12.1.2 AS APPLICABLE			SEC. 1705.12.1.1 SEC. 1705.12.1.2	1705.12.1		
a. SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE OF REQUIREMENTS OF AISC 341	-	X	AISC 341	1705.12.1.1	☐	☒
b. STRUCTURAL STEEL ELEMENTS IN THE SEISMIC FORCE RESISTING SYSTEMS OF BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F OTHER THAN THOSE COVERED IN SECTION 1705.12.1.1, INCLUDING STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 314.	-	X	SEC. 1705.12.1.1 AISC 341	1705.12.1.2	☐	☒
2. STRUCTURAL WOOD FOR THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.,				1705.12.2		
a. STRUCTURAL WOOD FIELD GLUING OPERATIONS OF ELEMENTS OF SEISMIC FORCE-RESISTING SYSTEM.	X	-		1705.12.2	☐	☒
b. STRUCTURAL WOOD FASTENING FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD DOWNS.	-	X		1705.12.2	☐	☒
3. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION FOR SEISMIC FORCE RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.				1705.12.3		
a. FOR WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.	-	X		1705.12.3	☐	☒
b. FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE- RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	-	X		1705.12.3	☐	☒
4. DESIGNATED SEISMIC SYSTEM VERIFICATIONS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, THE SPECIAL INSPECTOR SHALL EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING SEISMIC QUALIFICATION IN ACCORDANCE WITH SECTION 13.2.2 OF ASCE 7 AND VERIFY THAT THE LABEL, ANCHORAGE AND MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE	-	X	SEC. 13.2.2 ASCE 7	1705.12.4	☐	☒
5. ARCHITECTURAL COMPONENTS IN D, E, OR F.	-	X		1705.12.5	☐	☒
5.1. ACCESS FLOORS IN D, E, OR F.	-	X		1705.12.5.1	☐	☒
6. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS				1705.12.6		
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS, IN C, D, E OR F .	-	X		1705.12.6	☐	☒
b. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN E OR F .	-	X		1705.12.6	☐	☒
c. INSTALLATION AND ANCHORING OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS IN C, D, E OR F .	-	X		1705.12.6	☐	☒
d. INSTALLATION OF HVAC DUCTWORK THAT WILL CARRY HAZARDOUS MATERIALS IN C, D, E OR F .	-	X		1705.12.6	☐	☒
e. INSTALLATION OF VIBRATION ISOLATION SYSTEMS WITH NOMINAL CLEARANCE OF 0.25 INCHES OR LESS BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT WHERE INDICATED ON CONSTRUCTION DOCUMENTS .	-	X		1705.12.6	☐	☒
f. INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED IN C, D, E, OR F.	-	X		1705.12.6	☐	☒
7. STORAGE RACK DURING ANCHORING STORAGE RACKS 8 FEET OR GREATER IN HEIGHT IN D, E OR F	-	X		1705.12.7	☐	☒
8. SEISMIC ISOLATION SYSTEM IN B, C, D, E OR F	-	X		1705.12.8	☐	☒
9. COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES IN THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F.	-	X		1705.12.9	☐	☒

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION
FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
SPECIAL INSPECTION NOTES

SHEET NO. S003

PROJ. NO. 20242

SOIL NAIL RETAINING WALL:

1. DESCRIPTION:

THIS WORK CONSISTS OF DESIGNING AND CONSTRUCTING TEMPORARY/PERMANENT SOIL NAIL RETAINING WALL(S) AT THE LOCATIONS SHOWN ON THE "BID DRAWINGS". THE SOIL NAIL CONTRACTOR, KNOWN AS THE CONTRACTOR, SHALL FURNISH ALL LABOR, PLANS, DRAWINGS, DESIGN CALCULATIONS, AND MATERIALS AND EQUIPMENT REQUIRED TO DESIGN AND CONSTRUCT THE SOIL NAIL WALL(S) IN ACCORDANCE WITH THIS SPECIFICATION. THE SOIL NAIL WALL SHALL BE CONSIDERED A PERMANENT EARTH RETENTION SYSTEM AND DESIGNED ACCORDINGLY.

2. CONTRACTOR'S EXPERIENCE REQUIREMENTS:

THE EXPERIENCE REQUIREMENTS OUTLINED HEREIN SHALL BE SUBMITTED TO THE DESIGN ENGINEER AT LEAST 30 DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL DEMONSTRATE FULL COMPLIANCE WILL ALL OF THE PROVISIONS HEREIN, CITING SPECIFIC PROJECTS INCLUDING REFERENCES THAT TOTAL THE AMOUNT OF EXPERIENCE REQUIRED BY THIS SPECIFICATION. PROJECTS SHALL ONLY INCLUDE PROJECTS COMPLETED BY THE PROPOSED CONTRACTOR. PROJECTS COMPLETED UNDER ANOTHER UNRELATED OR DEFUNCT CORPORATE ENTITY OR IDENTITY SHALL NOT COUNT TOWARD THE REQUIREMENTS. PROJECTS COMPLETED BY PERSONNEL WHILE UNDER THE EMPLOY OF ANOTHER SPECIALTY CONTRACTOR SHALL NOT COUNT TOWARD SATISFYING THE EXPERIENCE REQUIREMENTS. FAILURE TO MEET ANY OF THE REQUIREMENTS PRIOR TO CONSTRUCTION SHALL RESULT IN DISMISSAL OF THE SPECIALTY CONTRACTOR FROM THE PROJECT.

THE CONTRACTOR SHALL BE EXPERIENCED IN THE DESIGN AND CONSTRUCTION OF PERMANENT SOIL NAIL RETAINING WALLS AND HAVE SUCCESSFULLY CONSTRUCTED AT LEAST 10 PROJECTS IN THE LAST 5 YEARS INVOLVING CONSTRUCTION OF PERMANENT SOIL NAIL RETAINING WALLS TOTALING AT LEAST 100,000 SQUARE FEET OF WALL FACE AREA AND AT LEAST 1,500 PERMANENT SOIL NAILS. AT LEAST 50% OF THIS AREA MUST BE DESIGN/BUILD EXPERIENCE.

THE SOIL NAIL WALL SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER WITH EXPERIENCE IN THE DESIGN OF AT LEAST 6 SUCCESSFULLY COMPLETED PERMANENT SOIL NAIL RETAINING WALL PROJECTS OVER THE PAST 3 YEARS. THE WALL DESIGNER SHALL BE A FULL-TIME EMPLOYEE OF THE CONTRACTOR. OUTSIDE CONSULTANTS HIRED BY THE CONTRACTOR SHALL NOT COUNT AS EMPLOYEES OF THE CONTRACTOR.

AT LEAST 30 CALENDAR DAYS BEFORE THE PLANNED START OF WALL EXCAVATION, THE CONTRACTOR SHALL SUBMIT THE EXPERIENCE QUALIFICATIONS AND DETAILS FOR THE REFERENCED DESIGN AND CONSTRUCTION PROJECTS, INCLUDING A BRIEF PROJECT DESCRIPTION WITH THE OWNER'S NAME AND CURRENT PHONE NUMBER. UPON RECEIPT OF THE EXPERIENCE QUALIFICATIONS SUBMITTAL, THE ENGINEER WILL HAVE 10 CALENDAR DAYS TO APPROVE OR REJECT THE PROPOSED SOIL NAILING CONTRACTOR.

3. PRE-APPROVAL LIST

THE FOLLOWING SOIL NAILING DESIGN-BUILD SPECIALTY CONTRACTORS ARE PRE-APPROVED
A. WURSTER ENGINEERING & CONSTRUCTION, 34 CARRIE DRIVE, GREENVILLE, SC 29615, (864) 627-7751, DARYL WURSTER, PE, DARYL WURSTER@WURSTERINC.COM

4. AVAILABLE INFORMATION

AVAILABLE INFORMATION INCLUDES THE FOLLOWING ITEMS:
A. "GMP DRAWINGS" PREPARED BY MCMILLAN PAZDAN SMITH ARCHITECTURE, DATED 06/01/2022. THE "GMP DRAWINGS" INCLUDE THE APPROVED PRELIMINARY PLANS, EXISTING CONTOURS, PROFILE, RIGHT-OF-WAY AND PERMANENT OR TEMPORARY CONSTRUCTION EASEMENT LIMITS, LOCATION OF ALL KNOWN ACTIVE AND ABANDONED EXISTING UTILITIES, ADJACENT STRUCTURES OR OTHER POTENTIAL INTERFERENCES; THE CENTERLINE OF ANY DRAINAGE STRUCTURE OR DRAINAGE PIPE BEHIND, PASSING THROUGH, OR PASSING UNDER THE WALL; THE TYPE OF WALL FACING AND FACING ARCHITECTURAL REQUIREMENTS.

B. THE GEOTECHNICAL REPORT, PREPARED BY S&ME, DATED 9/19/14, INCLUDED IN THE BID DOCUMENTS, CONTAINS THE RESULTS OF TEST PITS, EXPLORATORY BORINGS AND OTHER SITE INVESTIGATION DATA OBTAINED VICINITY THE PROPOSED SOIL NAIL WALL LOCATION(S).

5. SOIL NAIL WALL DESIGN REQUIREMENTS

DESIGN THE SOIL NAIL WALLS USING THE SERVICE LOAD DESIGN (SLD) PROCEDURES CONTAINED IN THE FHWA "GEOTECHNICAL ENGINEERING CIRCULAR 7", REPORT NO. FHWA-IF-03-017. ADDITIONALLY, THE REQUIRED PARTIAL SAFETY FACTORS, ALLOWABLE STRENGTH FACTORS AND MINIMUM GLOBAL STABILITY SOIL FACTORS OF SAFETY SHALL BE IN ACCORD WITH THE FHWA MANUAL, UNLESS SPECIFIED OTHERWISE. STRUCTURAL DESIGN OF ANY INDIVIDUAL WALL ELEMENTS NOT COVERED IN THE FHWA MANUAL SHALL BE BY THE SERVICE LOAD OR LOAD FACTOR DESIGN METHODS IN CONFORMANCE WITH ARTICLE 3.22 AND OTHER APPROPRIATE ARTICLES OF THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES INCLUDING CURRENT INTERIM SPECIFICATIONS.

6. SOIL NAIL WALL DESIGN SUBMITTALS

AT LEAST 30 CALENDAR DAYS BEFORE THE PLANNED START OF WALL EXCAVATION, SUBMIT P.E. SEALED COMPLETE DESIGN CALCULATIONS AND WORKING DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. INCLUDE ALL DETAILS, DIMENSIONS, NAIL LENGTHS, GROUND PROFILES, AND CROSS-SECTIONS NECESSARY TO CONSTRUCT THE WALL(S).

6.1 DESIGN CALCULATIONS

DESIGN CALCULATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
A. A WRITTEN SUMMARY REPORT THAT DESCRIBES THE OVERALL SOIL NAIL WALL DESIGN.
B. APPLICABLE CODE REQUIREMENTS AND DESIGN REFERENCES.
C. NAIL WALL CRITICAL DESIGN CROSS-SECTION(S) GEOMETRY INCLUDING SOIL/ROCK STRATA AND LOCATION, MAGNITUDE, AND DIRECTION OF DESIGN SLOPE OR EXTERNAL SURCHARGE LOADS AND PIEZOMETRIC LEVELS.
D. DESIGN CRITERIA INCLUDING, SOIL/ROCK SHEAR STRENGTHS (FRICTION ANGLE AND COHESION), UNIT WEIGHTS, AND GROUND-GROUT PULLOUT RESISTANCES AND NAIL DRILL HOLE DIAMETER ASSUMPTIONS FOR EACH SOIL/ROCK STRATA.
E. PARTIAL SAFETY FACTORS/STRENGTH FACTORS (FOR SERVICE LOAD DESIGN) OR LOAD AND RESISTANCE FACTORS (FOR WEIGHTS, NAIL HEAD STRENGTHS, AND STEEL, SHOTCRETE, AND CONCRETE MATERIALS. MINIMUM REQUIRED GLOBAL STABILITY SOIL FACTOR OF SAFETY FOR SLD DESIGN.
F. SEISMIC DESIGN ACCELERATION COEFFICIENT.
G. DESIGN CALCULATION SHEETS.
H. DESIGN NOTES INCLUDING AN EXPLANATION OF ANY SYMBOLS AND COMPUTER PROGRAMS USED IN THE DESIGN.
I. NAIL WALL FINAL DESIGN CROSS-SECTION(S) GEOMETRY INCLUDING SOIL/ROCK STRATA AND LOCATION, MAGNITUDE, AND DIRECTION OF SLOPE OR EXTERNAL SURCHARGE LOADS AND PIEZOMETRIC LEVELS WITH CRITICAL SLIP SURFACE SHOWN ALONG WITH MINIMUM CALCULATED GLOBAL STABILITY SOIL FACTOR OF SAFETY FOR SLD DESIGN AND REQUIRED NAIL LENGTHS AND STRENGTHS (NAIL BAR SIZES AND GRADES) FOR EACH NAIL ROW.
J. STRUCTURAL DESIGN CALCULATIONS FOR WALL FACING(S) AND NAIL HEAD/FACING CONNECTIONS INCLUDING CONSIDERATION OF FACING FLEXURAL AND PUNCHING SHEAR STRENGTH, HEADED STUDS TENSILE STRENGTH, UPPER CANTILEVER, MINIMUM REINFORCEMENT RATIO, COVER AND SPLICE REQUIREMENTS.
K. OTHER DESIGN CALCULATIONS.

6.2 WORKING DRAWINGS

WORKING DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
1. PLAN VIEW OF THE WALL(S) IDENTIFYING:
A. AN ELEVATION DATUM, IF AVAILABLE.
B. BEGINNING AND END OF WALL.
C. RIGHT-OF-WAY AND PERMANENT OR TEMPORARY CONSTRUCTION EASEMENT LIMITS, LOCATION OF ALL KNOWN ACTIVE AND ABANDONED EXISTING UTILITIES, ADJACENT STRUCTURES OR OTHER POTENTIAL INTERFERENCES. THE CENTERLINE OF ANY DRAINAGE STRUCTURE OR DRAINAGE PIPE BEHIND, PASSING THROUGH, OR PASSING UNDER THE WALL, IF INFORMATION IS PROVIDED TO CONTRACTOR.
2. AN ELEVATION VIEW OF THE WALL(S) IDENTIFYING:
A. THE TOP AND BOTTOM OF THE WALL.
B. THE WALL BASE AND THE TOP OF LEVELING PADS FOR CASTING CIP OR SEGMENTAL BLOCK FACING, IF APPLICABLE.
C. BEGINNING AND END OF WALL.
D. THE DISTANCE ALONG THE FACE OF THE WALL TO ALL STEPS IN THE WALL BASE.
E. WALL ELEVATION VIEW SHOWING NAIL LOCATIONS AND ELEVATIONS; VERTICAL AND HORIZONTAL NAIL SPACING; AND THE LOCATION OF WALL DRAINAGE ELEMENTS.
F. FINISH GRADE PROFILES BEHIND THE WALL, IF THE WALL IS FACED.
G. DESIGN PARAMETERS AND APPLICABLE CODES.
H. GENERAL NOTES FOR CONSTRUCTING THE WALL INCLUDING CONSTRUCTION SEQUENCING OR OTHER SPECIAL CONSTRUCTION REQUIREMENTS.
I. . HORIZONTAL AND VERTICAL CURVE DATA AFFECTING THE WALL AND WALL CONTROL POINTS. MATCH LINES OR OTHER DETAILS TO RELATE WALL STATIONING TO CENTERLINE STATIONING.
J. NAIL WALL TYPICAL SECTIONS INCLUDING STAGED EXCAVATION LIFT ELEVATIONS, WALL AND EXCAVATION FACE BATTER, NAIL SPACING AND INCLINATION, NAIL BAR SIZES, AND CORROSION PROTECTION DETAILS.
K. A TYPICAL DETAIL OF PRODUCTION AND TEST NAILS DEFINING THE NAIL LENGTH, MINIMUM DRILL HOLE DIAMETER, INCLINATION, AND TEST NAIL BONDED AND UNBONDED TEST LENGTHS.
L. DETAILS, DIMENSIONS, AND SCHEDULES FOR ALL NAILS, REINFORCING STEEL, WIRE MESH, BEARING PLATES, HEADED STUDS, ETC. AND/OR ATTACHMENT DEVICES FOR SHOTCRETE, CAST-IN-PLACE OR PREFABRICATED FACINGS.
M. FACING FINISHES, COLOR AND ARCHITECTURAL TREATMENT REQUIREMENTS (IF APPLICABLE) FOR PERMANENT WALL FACING ELEMENTS.

6.3 THE DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER OR BY THE CONSULTANT'S PROFESSIONAL ENGINEER, IF APPLICABLE. IF THE CONTRACTOR USES A CONSULTANT ENGINEER SUBCONTRACTOR TO PREPARE THE DESIGN, THE CONTRACTOR SHALL STILL HAVE OVERALL CONTRACT RESPONSIBILITY FOR BOTH THE DESIGN AND THE CONSTRUCTION.

7. MATERIALS:

MATERIALS FOR SOIL NAIL STRUCTURES SHALL CONSIST OF THE FOLLOWING:
A. SOLID BAR NAIL TENDONS: AASHTO M31/ASTM A615, MINIMUM GRADE 75, DEFORMED BAR, CONTINUOUS WITHOUT SPLICES OR WELDS, NEW, STRAIGHT, UNDAMAGED, BARE OR EPOXY COATED OR ENCAPSULATED AS SHOWN ON THE PLANS. THREADING ARE TO BE CONTINUOUS SPIRAL DEFORMED RIBBING PROVIDED BY THE BAR DEFORMATIONS (E.G. DYWIDAG OR WILLIAMS CONTINUOUS THREADBARS).
B. FUSION BONDED EPOXY COATING: ASTM A775. MINIMUM 0.3 MM THICKNESS ELECTROSTATICALLY APPLIED. BEND TEST REQUIREMENTS ARE WAIVED. COATING AT THE WALL ANCHORAGE END OF EPOXY COATED BARS MAY BE OMITTED OVER THE LENGTH PROVIDED FOR THREADING THE NUT AGAINST THE BEARING PLATE.
C. BEARING PLATES: USE ASTM A36 STEEL FOR BEARING PLATES.
D. CENTRALIZERS: MANUFACTURED FROM SCHEDULE 40 PVC PIPE OR TUBE, STEEL OR OTHER MATERIAL NOT DETRIMENTAL TO THE NAIL STEEL (WOOD SHALL NOT BE USED); SECURELY ATTACHED TO THE NAIL BAR; SIZED TO POSITION THE NAIL BAR WITHIN 25 MM OF THE CENTER OF THE DRILLHOLE; SIZED TO ALLOW TREMIE PIPE INSERTION TO THE BOTTOM OF THE DRILLHOLE; AND SIZED TO ALLOW GROUT TO FREELY FLOW UP THE DRILLHOLE.
E. NAIL GROUT: NEAT CEMENT OR SAND/CEMENT MIXTURE WITH A MINIMUM 3-DAY COMPRESSIVE STRENGTH OF 1500 PSI AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI PER AASHTO T106/ASTM C109.
F. SHOTCRETE: PROPORTION SHOTCRETE TO HAVE A MINIMUM 3_DAY COMPRESSIVE STRENGTH OF 2,000 PSI AND A MINIMUM 28_DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
G. ADMIXTURES: AASHTO M194/ASTM C494. ADMIXTURES WHICH CONTROL BLEED, IMPROVE FLOWABILITY, REDUCE WATER CONTENT AND RETARD SET MAY BE USED IN THE GROUT. ACCELERATORS ARE NOT PERMITTED. EXPANSIVE ADMIXTURES MAY ONLY BE USED IN GROUT USED FOR FILLING SEALED ENCAPSULATIONS. ADMIXTURES SHALL BE COMPATIBLE WITH THE GROUT AND MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
H. CEMENT: AASHTO M85/ASTM C150, TYPE I, II, III OR V.
I. FINE AGGREGATE: AASHTO M6/ASTM C33.
J. BAR COUPLERS: BAR COUPLERS SHALL DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR AS CERTIFIED BY THE MANUFACTURER.

8. MATERIALS HANDLING AND STORAGE:

A. STORE CEMENT TO PREVENT MOISTURE DEGRADATION AND PARTIAL HYDRATION.
B. STORE STEEL REINFORCEMENT ON SUPPORTS TO KEEP THE STEEL FROM CONTACTING THE GROUND. PROTECT NAIL STEEL FROM DIRT, RUST, AND OTHER DELETERIOUS SUBSTANCES PRIOR TO INSTALLATION. HEAVY CORROSION OR PITTING OF NAILS SHALL BE CAUSE FOR REJECTION. LIGHT RUST THAT HAS NOT RESULTED IN PITTING IS ACCEPTABLE.
C. DO NOT MOVE OR TRANSPORT ENCAPSULATED NAILS UNTIL THE ENCAPSULATION GROUT HAS REACHED SUFFICIENT STRENGTH TO RESIST DAMAGE DURING HANDLING. HANDLE ENCAPSULATED NAILS IN A MANNER THAT WILL PREVENT LARGE DEFLECTIONS, DISTORTIONS OR DAMAGE. REPAIR ENCAPSULATED NAILS THAT ARE DAMAGED OR DEFECTIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR REMOVE THEM FROM THE SITE.
D. HANDLE AND STORE EPOXY COATED BARS IN A WAY THAT WILL PREVENT THEM FROM BEING DAMAGED BEYOND WHAT IS PERMITTED BY ASTM 3963. REPAIR DAMAGED EPOXY COATING IN ACCORDANCE WITH ASTM A775 AND THE COATER'S RECOMMENDATIONS USING AN EPOXY FIELD REPAIR KIT APPROVED BY THE EPOXY MANUFACTURER. REPAIRED AREAS SHALL HAVE A MINIMUM 0.3 MM COATING THICKNESS.

9. PRECONSTRUCTION SURVEY AND CONSTRUCTION MONITORING

1. PHOTOGRAPHS SHALL BE TAKEN TO DOCUMENT CONDITIONS OF ADJACENT EXISTING STRUCTURES, WALLS, STREET PAVEMENTS, ETC. PRIOR TO COMMENCEMENT OF WORK.
2. SHOULD EXCESSIVE OR SUDDEN INCREASE OF GROUND SETTLEMENT OR SHORING WALL MOVEMENT BE DETECTED, THE GENERAL CONTRACTOR SHALL NOTIFY THE SOIL NAIL WALL CONTRACTOR IMMEDIATELY.

10. SOIL NAIL INSTALLATION:

1. SOIL NAIL TOLERANCES: PLAN LOCATION < 12 INCH ORIENTATION < 3 DEGREES
2. HOLE DRILLING: SOIL NAIL HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED SOIL NAILS. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. THE CONTRACTOR SHALL SELECT THE DRILLING, GROUTING METHODS TO MEET THE TEST REQUIREMENTS.
3. GROUTING: FOLLOWING DRILLING, THE BAR SHALL BE PLACED INTO THE HOLE AND GROUTED FROM THE BOTTOM OF THE HOLE TO THE SURFACE IN ONE CONTINUOUS OPERATION. HOLES SHALL BE TOPPED OFF PERIODICALLY SHOULD THE GROUT RECEDE AFTER DRILLING. SHOTCRETE CAN BE USED TO FINISH FILLING IN THE OUTER PORTION OF THE HOLES DURING CONSTRUCTION OF THE SHOTCRETE FAÇADE. THE BARS SHALL BE HELD OFF THE BASE OF THE HOLE. CONTINUOUSLY AGITATE GROUT AND DELIVER GROUT TO HOLE FREE OF LUMPS AND UNDISPOSED CEMENT. CONTROL PRESSURE TO PREVENT SOIL HEAVE.
3. SHOTCRETE: SHOTCRETE SHALL BE REINFORCED IN ACCORDANCE WITH PERTINENT DESIGN DOCUMENTS. FINAL SHOTCRETE FINISH SHALL BE A RELATIVELY PLANAR "GUN FINISH". FINISH SHALL BE APPLIED SUCH THAT LAYERS OF SHOTCRETE AND NAIL HEAD LOCATIONS ARE NOT READILY APPARENT UPON VISUAL INSPECTION.
4. QUALITY CONTROL: SYSTEMATIC PROGRAM OF OBSERVATION SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT NAILS IN ORDER TO PROTECT THEM FROM SERIOUS DAMAGE. COMMUNICATION BETWEEN HOLES AS EVIDENCED BY GROUT ERUPTIONS SHALL NOT BE ALLOWED AND WILL REQUIRE MODIFICATION OF THE DRILLING METHODS.

11. VERIFICATION TESTING:

1. SUBMIT CALIBRATION REPORTS AND DATA FOR EACH TEST JACK PRESSURE GAUGE AND MASTER PRESSURE GAUGE TO BE USED. CALIBRATION REPORTS SHALL NOT BE OLDER THAN SIX MONTHS. TESTING SHALL BE COMPLETE WITHIN A LIFT PRIOR TO ADVANCING THE EXCAVATION TO THE NEXT LIFT.
2. TWO VERIFICATION TEST NAILS PER MATERIAL TYPE SHALL BE INCREMENTALLY LOADED TO TWICE THE DESIGN LOAD (DL) FOLLOWED BY UNLOADING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. NAIL STRESSING SHALL BE PERFORMED A MINIMUM OF 72 HOURS AFTER INSTALLATION OF GROUT INTO GROUT HOLE. THE SOIL NAIL MOVEMENTS AT EACH LOAD AND UNLOAD INCREMENT SHALL BE RECORDED. THE DL SHALL BE THE BONDED LENGTH (LB) TIMES THE DESIGN ADHESION (AD).
3. THE ALIGNMENT LOAD (AL) SHOULD BE THE MINIMUM LOAD REQUIRED TO ALIGN THE TESTING APPARATUS AND SHOULD NOT EXCEED 5 PERCENT OF THE DESIGN LOAD (DL). DIAL GAUGES SHOULD BE SET AT "ZERO" AFTER THE ALIGNMENT LOAD HAS BEEN APPLIED.
4. EACH LOAD INCREMENT SHALL BE HELD FOR AT LEAST 10 MINUTES. THE VERIFICATION TEST NAIL SHALL BE MONITORED FOR CREEP AT THE 1.50 DL INCREMENT. NAIL MOVEMENTS DURING THE CREEP PORTION OF THE TEST SHALL BE MEASURED AND RECORDED AT 1, 2, 3, 5, 6, 10, 20, 30, 50, 60 MINUTES. THE LOAD DURING THE CREEP TEST SHALL BE MAINTAINED WITHIN 2 PERCENT OF THE INTENDED LOAD BY USE OF THE LOAD CELL. THE NAIL SHALL BE UNLOADED IN INCREMENTS OF 25 PERCENT OF THE DL WITH MOVEMENTS RECORDED AT EACH UNLOAD INCREMENT. EACH UNLOAD INCREMENT SHALL BE HELD ONLY FOR A SUFFICIENT TIME TO ALLOW STABILIZATION OF THE MOVEMENT READING. THE CREEP TEST AT 1.50 DL SHALL BE ACCEPTABLE IF THE RATE IS LESS THAN 0.08 INCHES BETWEEN THE 6 AND 60 MINUTE READING. TOTAL ELONGATION SHOULD EXCEED 80% OF THEORETICAL ELONGATION OF THE UNBONDED LENGTH.

12. PROOF TESTING:

TWO PERCENT OF THE NAILS SHALL BE PROOF TESTED PERFORMED BY INCREMENTALLY LOADING THE NAIL TO 150 PERCENT OF THE DESIGN LOAD (DL). THE DESIGN LOAD SHALL BE DETERMINED AS FOR VERIFICATION NAILS. THE NAIL MOVEMENT AT EACH LOAD SHALL BE MEASURED AND RECORDED IN THE SAME MANNER AS FOR VERIFICATION TESTS. AT LOAD INCREMENTS OTHER THAN MAXIMUM TEST LOAD, THE LOAD SHALL BE HELD LONG ENOUGH TO OBTAIN A STABLE READING. INCREMENTAL LOADING FOR PROOF TEST SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. THE CREEP TEST AT 1.5 DL SHALL BE ACCEPTABLE IF THE RATE IS LESS THAN 0.04 INCHES PER LOG CYCLE OF TIME AND IS LINEAR OR DECREASING IN RATE WITH THE LOG OF TIME AND PULLOUT FAILURE DOES NOT OCCUR. TOTAL ELONGATION SHOULD EXCEED 80% OF THEORETICAL ELONGATION OF THE UNBONDED LENGTH.

AL (0.05 DL MAX)AL = NAIL ALIGNMENT LOAD
DL = DESIGN LOAD 0.25 DL 0.50 DL 0.75 DL 1.00 DL 1.25 DL 1.50 (MAXIMUM TEST LOAD)

13. BASIS OF PAYMENT:

PAYMENT WILL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO ACCEPTABLY DESIGN AND CONSTRUCT THE SOIL NAIL WALL INCLUDING THE WALL DRAINAGE NETWORK AND THE TEMPORARY SHOTCRETE CONSTRUCTION FACING OR PERMANENT SHOTCRETE FACING (IF APPLICABLE).

PAY ITEM	MEASUREMENT UNIT
MOBILIZATION, PER OCCURRENCE	LUMP SUM
DESIGN	LUMP SUM
SOIL NAIL WALL	PER SQUARE FT.
VERIFICATION TESTING, PER OCCURRENCE	LUMP SUM
PROOF TESTING, PER OCCURRENCE	LUMP SUM

IF REQUIRED, PERMANENT CIP FACINGS OR SEGMENTAL BLOCK WALL WILL BE MEASURED AND PAID FOR SEPARATELY PER SQUARE FOOT OF FACING.

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

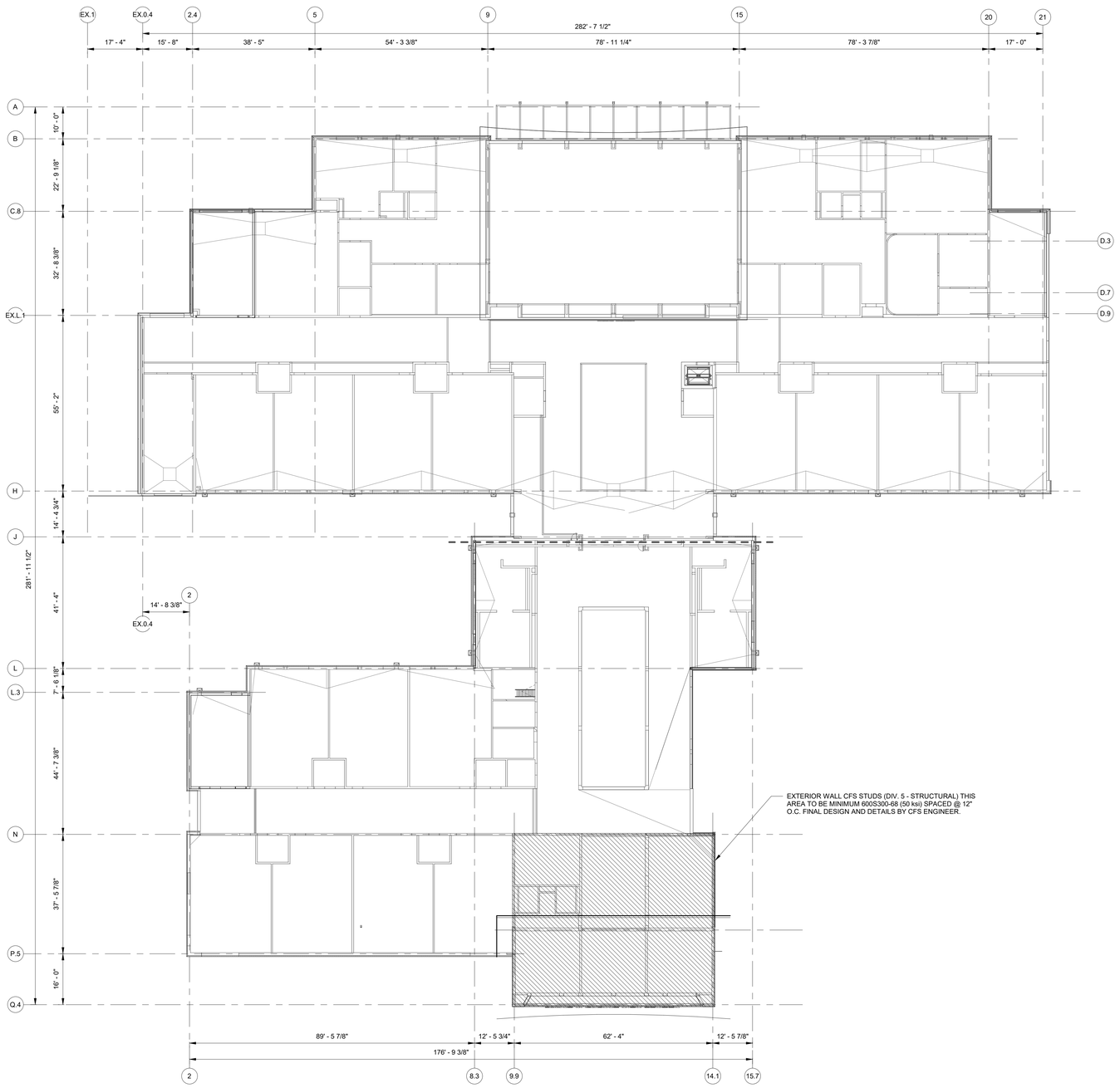
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
SOIL NAIL RETAINING WALL NOTES

SHEET NO. S004
PROJ. NO. 20242



A1 / S010 **OVERALL DIMENSION PLAN**
1/16" = 1'-0"

NOTES:

EXTERIOR WALL CFS STUDS (DIV. 5 - STRUCTURAL)
ALL AREAS AND ALL LEVELS TO BE MINIMUM:

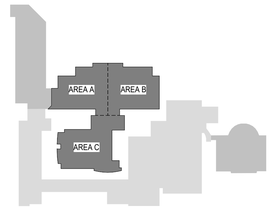
STUDS: 600S137-54 (50 ksi) SPACED @ 16" O.C. LIMIT HORIZONTAL DEFLECTION TO L/600 WHERE USED WITH BRICK VENEER.

JAMBS: 600S300-54 (50 ksi) BACK-TO-BACK LIMIT HORIZONTAL DEFLECTION TO L/600 WHERE USED WITH BRICK VENEER.

DEFLECTION TRACK: 600T 54 MIL. DEEP-LEG TRACK TO PREVENT GRAVITY LOADS FROM TRANSFERRING TO CFS FRAMING FROM STRUCTURAL SYSTEM.

G.C. TO PROVIDE P.E. SEALED CFS FRAMING CALCULATION PACKAGE AND DRAWINGS PER THE PROJECT NOTES ON S002.

PROJECT NORTH



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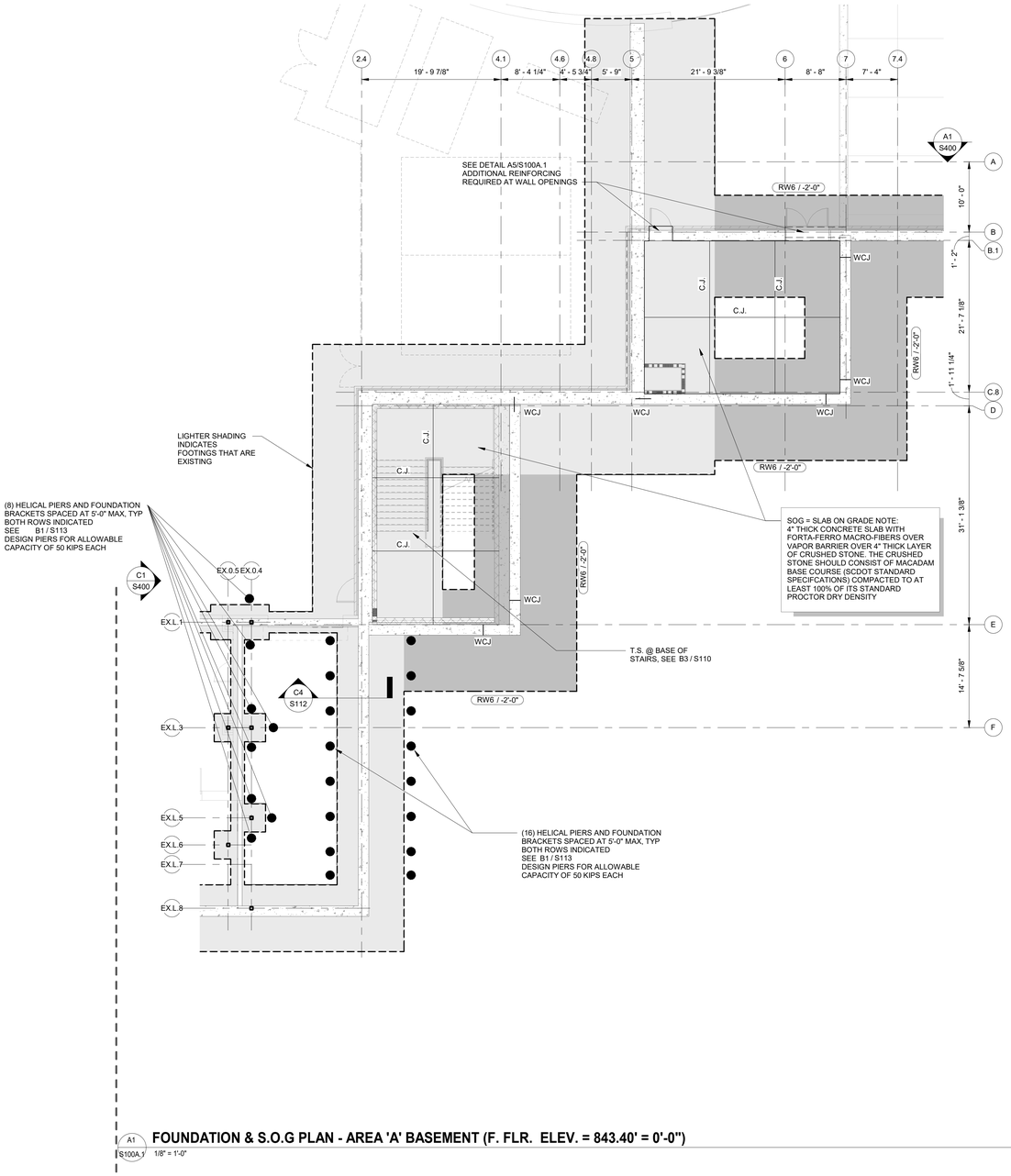
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
OVERALL
DIMENSION PLAN

SHEET NO. S010

PROJ. NO. 20242



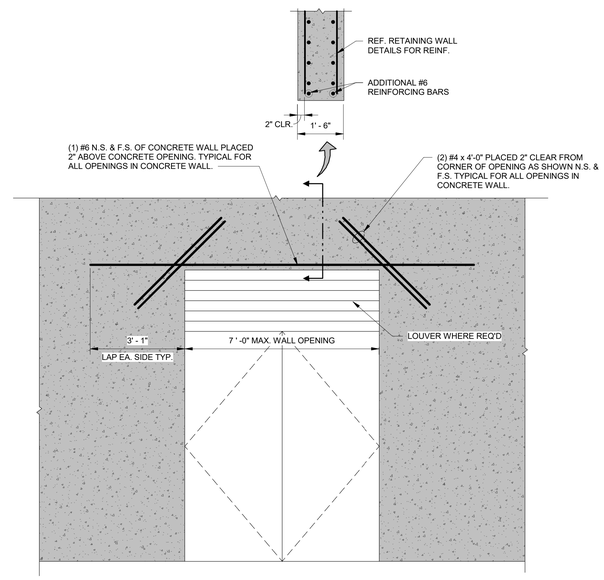
A1 S100A.1 **FOUNDATION & S.O.G PLAN - AREA 'A' BASEMENT (F. FLR. ELEV. = 843.40' = 0'-0")**
1/8" = 1'-0"

FOUNDATION & MASONRY NOTES:

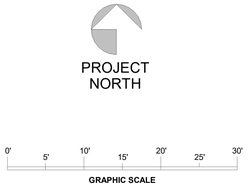
1. FOR GENERAL NOTES SEE DWG. S001, S002, S003 & S004.
2. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS & FOR WALL OPNG. LOCATIONS.
3. INTERIOR VERTICAL WALL REINFORCING: #5 @ 48" O.C. FOR INTERIOR WALLS U.N.O. (SEE "CONCRETE MASONRY NOTES" ON DWG S001 FOR TYP. JAMB STEEL).
4. 3 HR. FIRE WALLS & CMU LOAD BEARING WALLS SHALL BE REINFORCED W/ #6 @ 32"UNLESS NOTED OTHERWISE IN PLAN. STAIR TOWER WALLS & ELEVATOR SHAFT WALLS SHALL BE REINFORCED WITH #6 @ 16" O.C. AND WITH BOND BEAMS AT 4' - 0" O.C. UNLESS NOTED OTHERWISE.
5. ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF.
6. COORDINATE SIZE & LOCATION OF ALL REQ'D. FLOOR DRAINS, SUMPS, SLOPES, & TROUGHS & FLOOR OUTLETS WITH ARCH. & ME&P DWGS.
7. G.C. COORDINATE STEPS IN FOOTING WITH M,E,&P PER DETAIL B1 / S110
8. FINISH FLOOR ELEVATIONS FOR ALL AREAS ARE SHOWN ON PLANS.
9. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
10. REINFORCE ALL FOOTING "BUMP-OUTS" W/ #5 @ 12" O.C. E.W. @ 3" CLEAR FROM BOTTOM OF FOOTING.
11. 8"x24" DP. B.B. or 12"x24" DP B.B. FOR 12" CMU WALLS w/(4) #5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS WITH A B.P. DESIGNATION. VERTICAL WALL REINF. REQUIRED #6 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE.
12. SEE D1 / S113 FOR TYPICAL MASONRY CORNER REINFORCING DETAIL.
13. ALL FOUNDATION & T/STL ELEVATIONS ARE RELATIVE TO BASEMENT F.FLOOR = 0' - 0" TYP. UNO

FOUNDATION AND SLAB - ON - GRADE LEGEND:

T.D.	= TURN DOWN SLAB SEE DETAIL A2 / S111
VWA	= INDICATES VERIFY W/ ARCHITECTURAL.
C.J.	= CONTROL JOINT IN SLAB-SUGGESTED LOCATION. MAX. SPACING = 12'-0" SEE DET. B4 / S110
- ø ——	= A STEP IN FTG. ELEVATION SEE DETAIL B1 / S110
20 / -2'-0"	= TYPE 20 FDN. WITH T/FTG. @ -2' - 0" FROM BASEMENT LEVEL FIN FLR ELEV. = 843.40' = 0'-0"
BP#	= BASE PLATE TYPE #. SEE DETAILS ON S112.
F.B.	= FACE OF BRICK
M.E.	= MATCH EXISTING
T/FTG	= TOP OF FOOTING
	= 3 HOUR RATED FIRE WALL, SEE ARCH.
	= #57 STONE RETAINING WALL BACKFILL
	= STA-LITE RETAINING WALL BACKFILL
WCJ	= WALL CONSTRUCTION JOINT. SEE DETAIL A4 / S114
WP	= WALL CONTROL JOINT (WEAKENED PLANE) SEE DETAIL A5 / S114



A5 S100A.1 **LINTELS IN NEW CONCRETE WALLS**
1/2" = 1'-0"



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

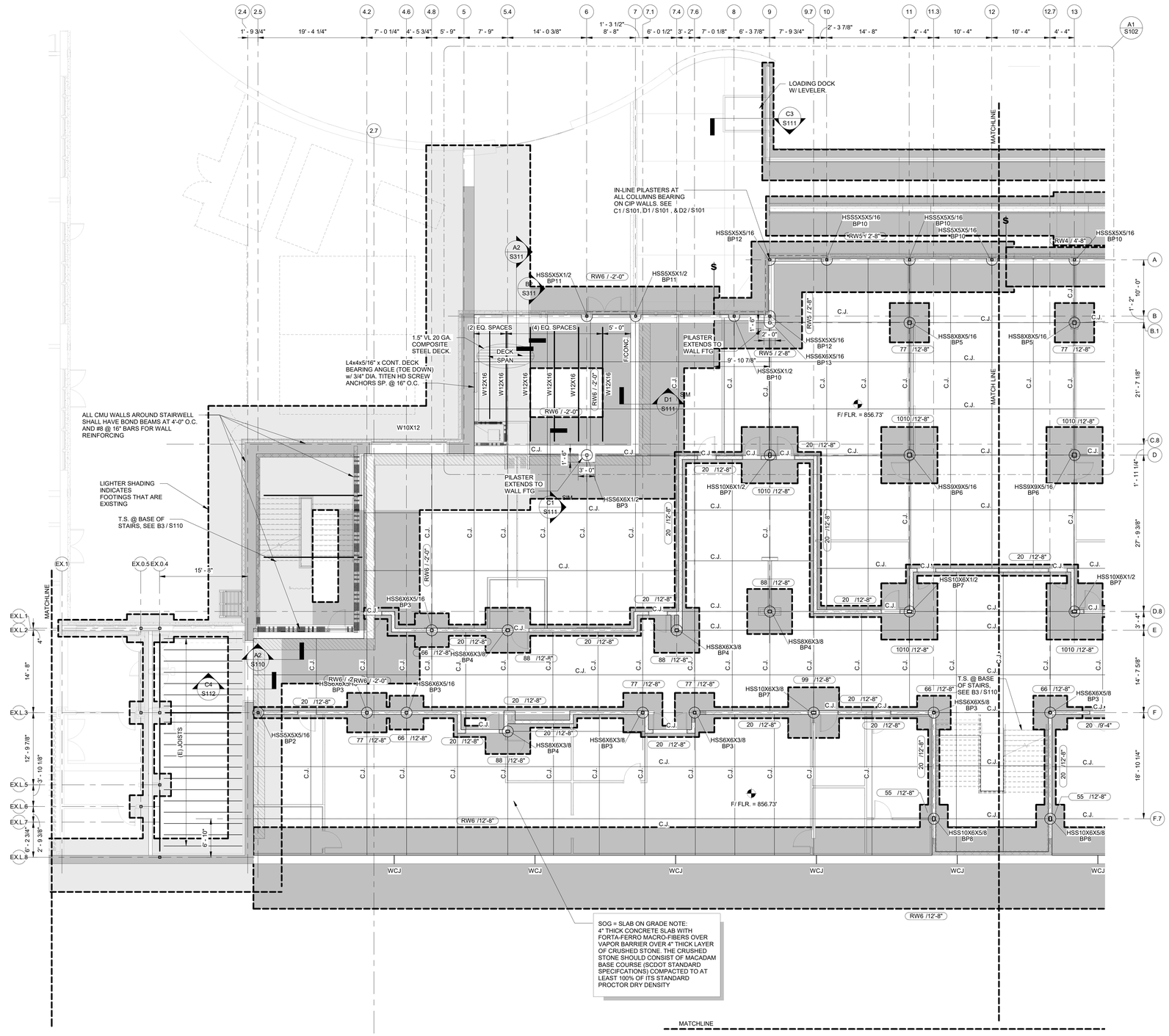
GMP SET 06/01/22

PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION & S.O.G PLAN - AREA 'A' BASEMENT (F. FLR. ELEV. = 843.40' = 0'-0")

PROJ. NO. 20242

S100A.1



A1 S100A.2 **FOUNDATION & S.O.G. PLAN - AREA 'A' LEVEL 1000 (F. FLR. ELEV. = 856.73' = +13'-4")**
1/8" = 1'-0"

FOUNDATION & MASONRY NOTES:

1. FOR GENERAL NOTES SEE DWG. S001, S002, S003 & S004.
2. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS & FOR WALL OPNG. LOCATIONS.
3. INTERIOR VERTICAL WALL REINFORCING: #5 @ 48" O.C. FOR INTERIOR WALLS U.N.O. (SEE "CONCRETE MASONRY NOTES" ON DWG S001 FOR TYP. JAMB STEEL).
4. 3 HR. FIRE WALLS & CMU LOAD BEARING WALLS SHALL BE REINFORCED W/ #6 @ 32"UNLESS NOTED OTHERWISE IN PLAN. STAIR TOWER WALLS & ELEVATOR SHAFT WALLS SHALL BE REINFORCED WITH #6 @ 16" O.C. AND WITH BOND BEAMS AT 4' - 0" O.C. UNLESS NOTED OTHERWISE.
5. ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF.
6. COORDINATE SIZE & LOCATION OF ALL REQ'D. FLOOR DRAINS, SUMPS, SLOPES, & TROUGHS & FLOOR OUTLETS WITH ARCH. & ME&P DWGS.
7. G.C. COORDINATE STEPS IN FOOTING WITH M,E,&P PER DETAIL B1 / S110
8. FINISH FLOOR ELEVATIONS FOR ALL AREAS ARE SHOWN ON PLANS.
9. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
10. REINFORCE ALL FOOTING "BUMP-OUTS" W/ #5 @ 12" O.C. E.W. @ 3" CLEAR FROM BOTTOM OF FOOTING.
11. 8"x24" DP. B.B. or 12"x24" DP B.B. FOR 12" CMU WALLS w/(4) #5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS WITH A B.P. DESIGNATION. VERTICAL WALL REINF. REQUIRED #6 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE.
12. SEE D1 / S113 FOR TYPICAL MASONRY CORNER REINFORCING DETAIL.
13. ALL FOUNDATION & T/STL ELEVATIONS ARE RELATIVE TO BASEMENT F.FLOOR = 0' - 0" TYP. UNO

FOUNDATION AND SLAB - ON - GRADE LEGEND:

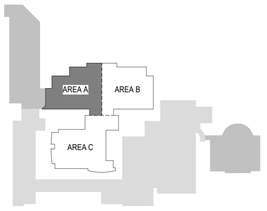
T.D.	= TURN DOWN SLAB SEE DETAIL A2 / S111
VWA	= INDICATES VERIFY W/ ARCHITECTURAL.
C.J.	= CONTROL JOINT IN SLAB-SUGGESTED LOCATION. MAX. SPACING = 12'-0" SEE DET. B4 / S110
- ⌀ ——	= A STEP IN FTG. ELEVATION SEE DETAIL B1 / S110
20 / -2'-0"	= TYPE 20 FDN. WITH T/FTG. @ -2' - 0" FROM BASEMENT LEVEL FIN FLR ELEV. = 843.40' = 0'-0"
BP#	= BASE PLATE TYPE #. SEE DETAILS ON S112.
F.B.	= FACE OF BRICK
M.E.	= MATCH EXISTING
T/FTG	= TOP OF FOOTING
	= 3 HOUR RATED FIRE WALL, SEE ARCH.
	= #57 STONE RETAINING WALL BACKFILL
	= STA-LITE RETAINING WALL BACKFILL
WCJ	= WALL CONSTRUCTION JOINT. SEE DETAIL A4 / S114
WP	= WALL CONTROL JOINT (WEAKENED PLANE) SEE DETAIL A5 / S114

FOUNDATION SCHEDULE

TYPE	PLAN DIMENSION	THICKNESS	REINFORCING	REMARKS
20	2'-0" x CONT.	1'-0"	(3) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
30	3'-0" x CONT.	1'-0"	(4) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
44	4'-0" x 4'-0"	1'-2"	(4) #5 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
55	5'-0" x 5'-0"	1'-2"	(5) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
66	6'-0" x 6'-0"	1'-4"	(6) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
77	7'-0" x 7'-0"	1'-6"	(7) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
88	8'-0" x 8'-0"	1'-8"	(8) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
99	9'-0" x 9'-0"	1'-8"	(9) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
1010	10'-0" x 10'-0"	1'-8"	(10) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'
GRAPHIC SCALE



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

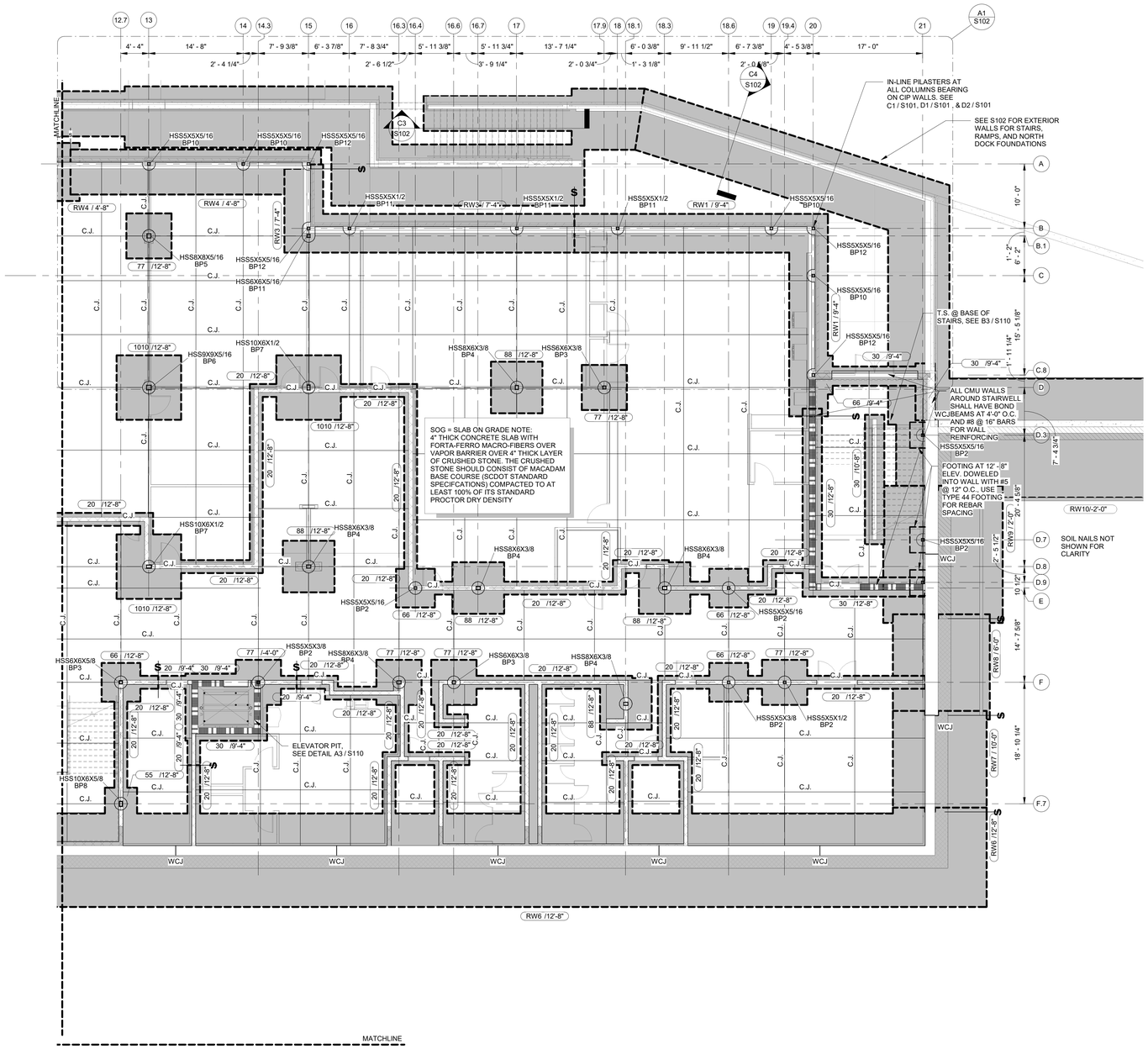
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION & S.O.G. PLAN - AREA 'A' LEVEL 1000

SHEET NO. PROJ. NO. 20242

S100A.2



A1 / S100B **FOUNDATION & S.O.G. PLAN - AREA 'B' LEVEL 1000 (F. FLR. ELEV. = 856.73' = +13'-4")**

1/8" = 1'-0"

FOUNDATION & MASONRY NOTES:

1. FOR GENERAL NOTES SEE DWG. S001, S002, S003 & S004.
2. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS & FOR WALL OPNG. LOCATIONS.
3. INTERIOR VERTICAL WALL REINFORCING: #5 @ 48" O.C. FOR INTERIOR WALLS U.N.O. (SEE "CONCRETE MASONRY NOTES" ON DWG S001 FOR TYP. JAMB STEEL).
4. 3 HR. FIRE WALLS & CMU LOAD BEARING WALLS SHALL BE REINFORCED W/ #6 @ 32"UNLESS NOTED OTHERWISE IN PLAN. STAIR TOWER WALLS & ELEVATOR SHAFT WALLS SHALL BE REINFORCED WITH #8 @ 16" O.C. AND WITH BOND BEAMS AT 4' - 0" O.C. UNLESS NOTED OTHERWISE.
5. ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF.
6. COORDINATE SIZE & LOCATION OF ALL REQ'D. FLOOR DRAINS, SUMPS, SLOPES, & TROUGHS & FLOOR OUTLETS WITH ARCH. & ME&P DWGS.
7. G.C. COORDINATE STEPS IN FOOTING WITH M,E,&P PER DETAIL B1 / S110
8. FINISH FLOOR ELEVATIONS FOR ALL AREAS ARE SHOWN ON PLANS.
9. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
10. REINFORCE ALL FOOTING "BUMP-OUTS" W/ #5 @ 12" O.C. E.W. @ 3" CLEAR FROM BOTTOM OF FOOTING.
11. 8"x24" DP. B.B. or 12"x24" DP B.B. FOR 12" CMU WALLS w/(4) #5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS WITH A B.P. DESIGNATION. VERTICAL WALL REINF. REQUIRED #6 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE.
12. SEE D1 / S113 FOR TYPICAL MASONRY CORNER REINFORCING DETAIL.
13. ALL FOUNDATION & T/STL ELEVATIONS ARE RELATIVE TO BASEMENT F.FLOOR = 0' - 0" TYP. UNO

FOUNDATION AND SLAB - ON - GRADE LEGEND:

T.D.	= TURN DOWN SLAB SEE DETAIL A2 / S111
VWA	= INDICATES VERIFY W/ ARCHITECTURAL.
C.J.	= CONTROL JOINT IN SLAB-SUGGESTED LOCATION. MAX. SPACING = 12'-0" SEE DET. B4 / S110
– ⌀ ———	= A STEP IN FTG. ELEVATION SEE DETAIL B1 / S110
20 / -2'-0"	= TYPE 20 FDN. WITH T/FTG. @ -2' - 0" FROM BASEMENT LEVEL FIN FLR ELEV. = 843.40' = 0'-0"
BP#	= BASE PLATE TYPE #. SEE DETAILS ON S112.
F.B.	= FACE OF BRICK
M.E.	= MATCH EXISTING
T/FTG	= TOP OF FOOTING
	= 3 HOUR RATED FIRE WALL, SEE ARCH.
	= #57 STONE RETAINING WALL BACKFILL
	= STA-LITE RETAINING WALL BACKFILL
WCJ	= WALL CONSTRUCTION JOINT. SEE DETAIL A4 / S114
WP	= WALL CONTROL JOINT (WEAKENED PLANE) SEE DETAIL A5 / S114

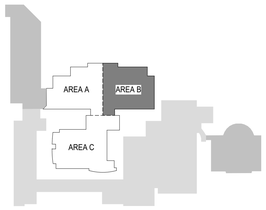
FOUNDATION SCHEDULE

TYPE	PLAN DIMENSION	THICKNESS	REINFORCING	REMARKS
20	2'-0" x CONT.	1'-0"	(3) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
30	3'-0" x CONT.	1'-0"	(4) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
44	4'-0" x 4'-0"	1'-2"	(4) #5 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
55	5'-0" x 5'-0"	1'-2"	(5) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
66	6'-0" x 6'-0"	1'-4"	(6) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
77	7'-0" x 7'-0"	1'-6"	(7) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
88	8'-0" x 8'-0"	1'-8"	(8) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
99	9'-0" x 9'-0"	1'-8"	(9) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
1010	10'-0" x 10'-0"	1'-8"	(10) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

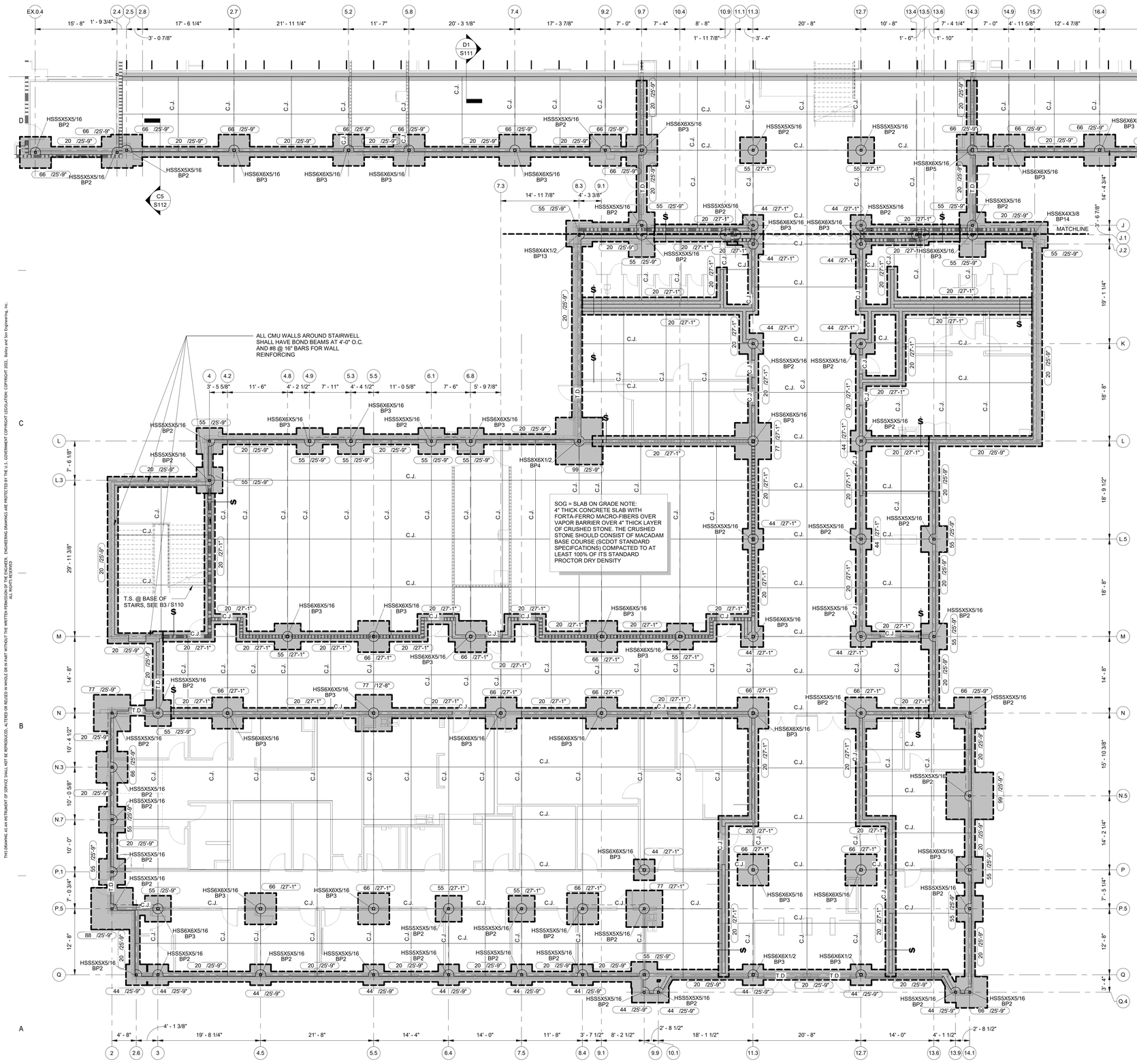
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION & S.O.G. PLAN - AREA 'B' LEVEL 1000

SHEET NO. S100B

PROJ. NO. 20242



A1 S100C **FOUNDATION & S.O.G. PLAN - AREA 'C' LEVEL 1100 (F. FLR. ELEV. = 871.16' = +27'-9"))**

1/8" = 1'-0"

FOUNDATION & MASONRY NOTES:

1. FOR GENERAL NOTES SEE DWG. S001, S002, S003 & S004.
2. SEE ARCH. DRAWINGS FOR INTERIOR WALL LOCATIONS & FOR WALL OPNG. LOCATIONS.
3. INTERIOR VERTICAL WALL REINFORCING: #5 @ 48" O.C. FOR INTERIOR WALLS U.N.O. (SEE "CONCRETE MASONRY NOTES" ON DWG S001 FOR TYP. JAMB STEEL).
4. 3 HR. FIRE WALLS & CMU LOAD BEARING WALLS SHALL BE REINFORCED W/ #6 @ 32"UNLESS NOTED OTHERWISE IN PLAN. STAIR TOWER WALLS & ELEVATOR SHAFT WALLS SHALL BE REINFORCED WITH #8 @ 16" O.C. AND WITH BOND BEAMS AT 4' - 0" O.C. UNLESS NOTED OTHERWISE.
5. ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF.
6. COORDINATE SIZE & LOCATION OF ALL REQ'D. FLOOR DRAINS, SUMPS, SLOPES, & TROUGHS & FLOOR OUTLETS WITH ARCH. & ME&P DWGS.
7. G.C. COORDINATE STEPS IN FOOTING WITH M,E,&P PER DETAIL B1 / S110
8. FINISH FLOOR ELEVATIONS FOR ALL AREAS ARE SHOWN ON PLANS.
9. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
10. REINFORCE ALL FOOTING "BUMP-OUTS" W/ #5 @ 12" O.C. E.W. @ 3" CLEAR FROM BOTTOM OF FOOTING.
11. 8"x24" DP, B.B. or 12"x24" DP B.B. FOR 12" CMU WALLS w/(4) #5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS WITH A B.P. DESIGNATION. VERTICAL WALL REINF. REQUIRED #6 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE.
12. SEE D1 / S113 FOR TYPICAL MASONRY CORNER REINFORCING DETAIL.
13. ALL FOUNDATION & T/STL ELEVATIONS ARE RELATIVE TO BASEMENT F.FLOOR = 0' - 0" TYP. UNO

FOUNDATION AND SLAB - ON - GRADE LEGEND:

T.D.	= TURN DOWN SLAB SEE DETAIL A2 / S111
VWA	= INDICATES VERIFY W/ ARCHITECTURAL.
C.J.	= CONTROL JOINT IN SLAB-SUGGESTED LOCATION. MAX. SPACING = 12'-0" SEE DET. B4 / S110
- ## ———	= A STEP IN FTG. ELEVATION SEE DETAIL B1 / S110
20 / -2'-0"	= TYPE 20 FDN. WITH T/FTG. @ -2' - 0" FROM BASEMENT LEVEL FIN FLR ELEV. = 843.40' = 0'-0"
BP#	= BASE PLATE TYPE #, SEE DETAILS ON S112.
F.B.	= FACE OF BRICK
M.E.	= MATCH EXISTING
T/FTG	= TOP OF FOOTING
	= 3 HOUR RATED FIRE WALL, SEE ARCH.
	= #57 STONE RETAINING WALL BACKFILL
	= STA-LITE RETAINING WALL BACKFILL
WCJ	= WALL CONSTRUCTION JOINT. SEE DETAIL A4 / S114
WP	= WALL CONTROL JOINT (WEAKENED PLANE) SEE DETAIL A5 / S114

FOUNDATION SCHEDULE

TYPE	PLAN DIMENSION	THICKNESS	REINFORCING	REMARKS
20	2'-0" x CONT.	1'-0"	(3) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
30	3'-0" x CONT.	1'-0"	(4) #5 CONT. COT. & #4 @ 18" TRANSVERSE BOT.	CENTER FTG. UNDER WALL
44	4'-0" x 4'-0"	1'-2"	(4) #5 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
55	5'-0" x 5'-0"	1'-2"	(5) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
66	6'-0" x 6'-0"	1'-4"	(6) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
77	7'-0" x 7'-0"	1'-6"	(7) #6 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
88	8'-0" x 8'-0"	1'-8"	(8) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
99	9'-0" x 9'-0"	1'-8"	(9) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.
1010	10'-0" x 10'-0"	1'-8"	(10) #7 @ 12" O.C. EW - BOTTOM LAYER	CENTER UNDER COL.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

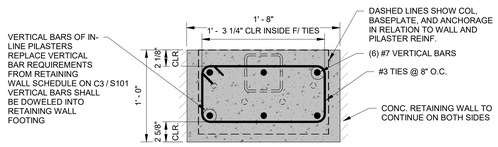
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

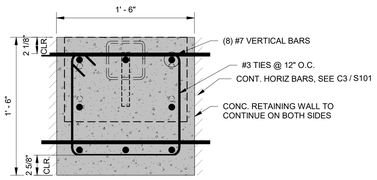
PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION & S.O.G. PLAN - AREA 'C' LEVEL 1100

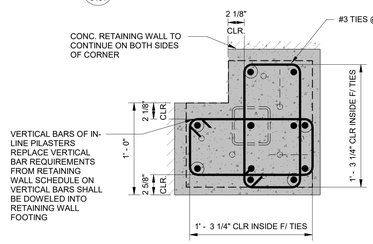
SHEET NO. S100C
PROJ. NO. 20242



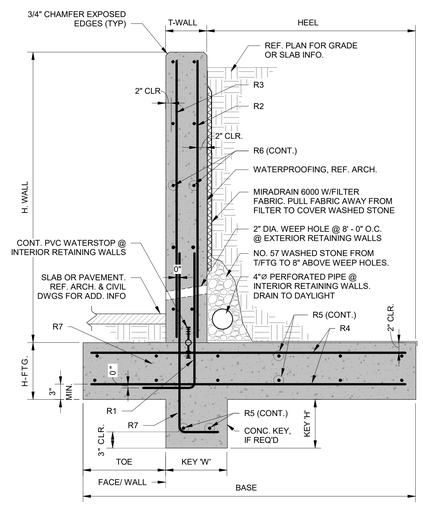
D1 / S101 **1'-0" IN-LINE PILASTER DETAIL**
1 1/2" = 1'-0"



D2 / S101 **1'-6" IN-LINE PILASTER DETAIL**
1 1/2" = 1'-0"



C1 / S101 **1'-0" IN-LINE PILASTER AT WALL CORNERS**
1 1/2" = 1'-0"

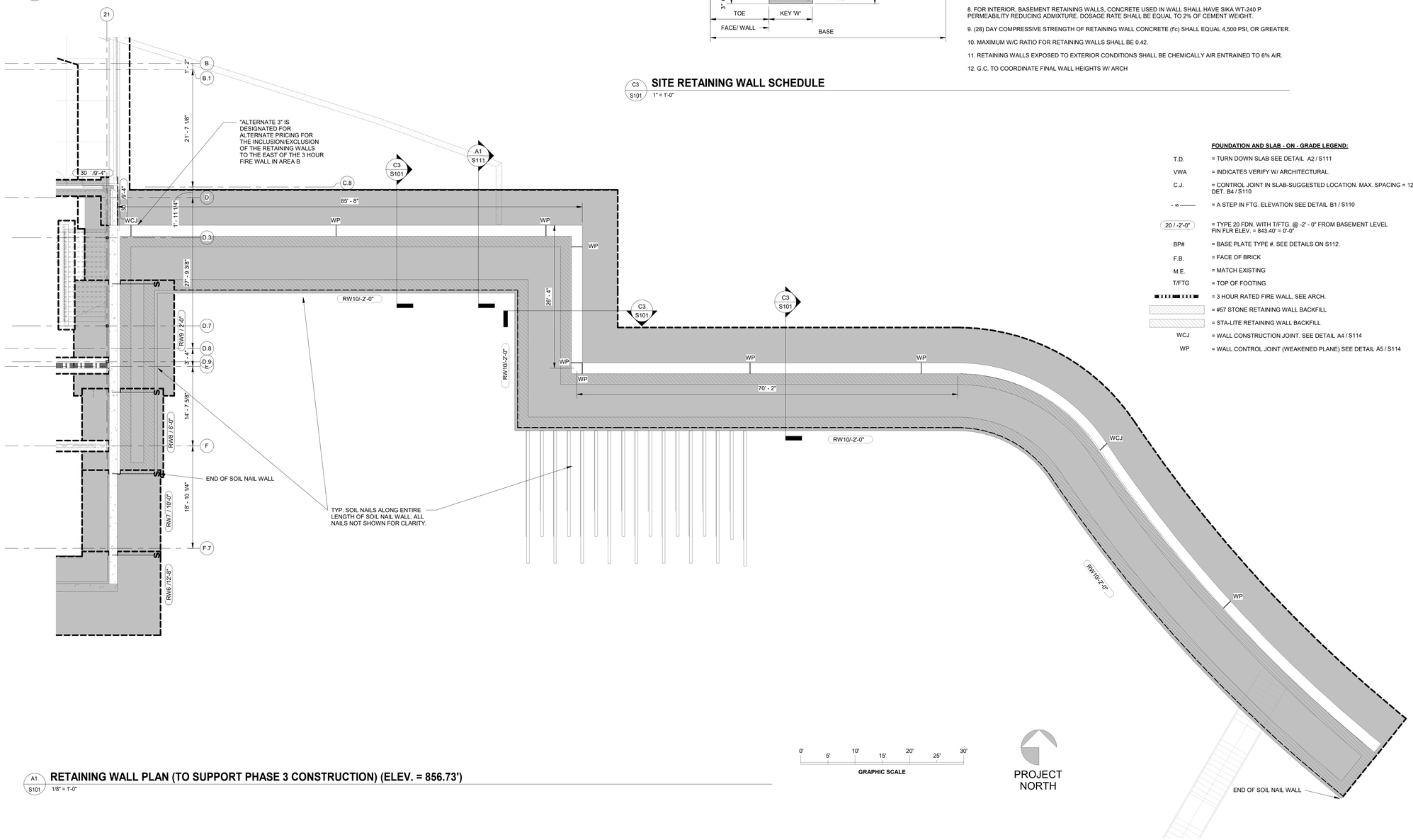


C3 / S101 **SITE RETAINING WALL SCHEDULE**
1" = 1'-0"

RETAINING WALL SCHEDULE														
WALL TYPE	BACKFILL	EXPOSURE CLASS	H WALL	BASE	HEEL	T WALL	H FTG.	KEY H"xW"	R1	R2	R3	R4	R5	R6	R7
RW1	SOIL	F2	3' - 8"	6' - 0"	3' - 0"	12"	12"	N/A	#4 @ 9"	N/A	#4 @ 12"	#5 @ 12"	#5 @ 12"	#4 @ 12"	#4 @ 12"
RW2	SOIL	F2	3' - 8"	7' - 0"	3' - 6"	12"	15"	N/A	#4 @ 9"	N/A	#4 @ 12"	#5 @ 12"	#5 @ 12"	#4 @ 12"	#4 @ 12"
RW3	SOIL	F2	5' - 8"	6' - 0"	3' - 0"	12"	12"	N/A	#4 @ 9"	N/A	#4 @ 12"	#5 @ 12"	#5 @ 12"	#4 @ 12"	#4 @ 12"
RW4	SOIL	F2	8' - 4"	7' - 0"	4' - 0"	12"	12"	12" X 16"	#5 @ 12"	N/A	#5 @ 12"	#5 @ 12"	#5 @ 12"	#4 @ 12"	#5 @ 12"
RW5	SOIL	F2	10' - 4"	9' - 0"	5' - 0"	12"	15"	12" X 16"	#6 @ 6"	#6 @ 12"	#6 @ 12"	#6 @ 12"	#5 @ 12"	#4 @ 8"	#6 @ 12"
RW6	SOIL	F2	15' - 0"	14' - 6"	8' - 0"	18"	18"	12" X 16"	#7 @ 6"	#7 @ 12"	#7 @ 12"	#7 @ 12"	#6 @ 12"	#4 @ 8"	#7 @ 12"
RW7	SOIL	F2	17' - 6"	14' - 6"	8' - 0"	18"	20"	12" X 16"	#8 @ 10"	#7 @ 10"	#7 @ 10"	#8 @ 16"	#6 @ 12"	#4 @ 8"	#7 @ 10"
RW8	STA-LITE	F2	21' - 6"	15' - 0"	8' - 0"	24"	26"	N/A	#9 @ 12"	#9 @ 12"	#9 @ 12"	#8 @ 16"	#6 @ 12"	#4 @ 8"	#9 @ 12"
RW9	STA-LITE	F2	25' - 6"	18' - 6"	10' - 0"	24"	26"	N/A	#9 @ 12"	#9 @ 12"	#9 @ 12"	#8 @ 16"	#6 @ 12"	#4 @ 8"	#9 @ 12"
RW10	STA-LITE	F2	29' - 9"	18' - 6"	10' - 0"	24"	26"	N/A	#8 @ 6"	#9 @ 12"	#9 @ 12"	#8 @ 12"	#6 @ 12"	#4 @ 8"	#9 @ 12"
RW11	SOIL	F2	13' - 4"	9' - 6"	6' - 0"	12"	18"	16" X 16"	#6 @ 6"	#6 @ 12"	#6 @ 12"	#6 @ 12"	#5 @ 12"	#4 @ 8"	#6 @ 12"
RW12	SOIL	F2	VARIES	5' - 6"	3' - 5"	8"	15"	N/A	#6 @ 6"	#6 @ 12"	N/A	#6 @ 12"	#5 @ 12"	#4 @ 12"	N/A
RW13	SOIL	F2	VARIES	7' - 0"	4' - 3"	12"	15"	N/A	#6 @ 6"	#6 @ 12"	#6 @ 12"	#8 @ 12"	#5 @ 12"	#4 @ 8"	#6 @ 12"

RETAINING WALL NOTES:

1. FOR WALLS WHERE R2 SHOWS "N/A" DOWEL BARS (R1, R7) SHALL EXTEND TO TOP OF RETAINING WALL MINUS MIN. CLEAR DISTANCE
2. SEE PLAN WHERE WEEPHOLES ARE REQUIRED.
3. SEE PLAN FOR RETAINING WALL JOINT LOCATIONS.
4. HEIGHT OF WALL INDICATED IN CHART ABOVE (H. WALL) DOES NOT INCLUDE SLAB TIE IN AT TOP (WHERE REQUIRED). THEREFORE, HEIGHT OF WALL DOES NOT EXTEND TO FINISHED FLOOR LEVEL.
5. DOWEL BAR 'R7' SHALL EXTEND INTO FOOTING KEY AS SHOWN. WHEN KEY IS NOT PROVIDED, IT SHALL BE HOOKED INTO THE FOOTING AS SHOWN FOR DOWEL BAR 'R1'
6. BACKFILL IS AS INDICATED ON THE RETAINING WALL SCHEDULE U.N.O. ON FOUNDATION & S.O.G. PLANS
7. REFERENCE REBAR BEND DETAIL FOR REQUIRED DOWEL BAR HOOK LENGTHS. SEE C2 / S110
8. FOR INTERIOR, BASEMENT RETAINING WALLS, CONCRETE USED IN WALL SHALL HAVE SIKA WT-240 P PERMEABILITY REDUCING ADMIXTURE. DOSAGE RATE SHALL BE EQUAL TO 2% OF CEMENT WEIGHT.
9. (28) DAY COMPRESSIVE STRENGTH OF RETAINING WALL CONCRETE (f'c) SHALL EQUAL 4,500 PSI, OR GREATER.
10. MAXIMUM W/C RATIO FOR RETAINING WALLS SHALL BE 0.42.
11. RETAINING WALLS EXPOSED TO EXTERIOR CONDITIONS SHALL BE CHEMICALLY AIR ENTRAINED TO 6% AIR.
12. G.C. TO COORDINATE FINAL WALL HEIGHTS W/ ARCH



A1 / S101 **RETAINING WALL PLAN (TO SUPPORT PHASE 3 CONSTRUCTION) (ELEV. = 856.73')**
1/8" = 1'-0"

0' 5' 10' 15' 20' 25' 30'
GRAPHIC SCALE

PROJECT NORTH

FOUNDATION AND SLAB - ON - GRADE LEGEND:

T.D.	= TURN DOWN SLAB SEE DETAIL A2 / S111
VWA	= INDICATES VERIFY W/ ARCHITECTURAL.
C.J.	= CONTROL JOINT IN SLAB-SUGGESTED LOCATION. MAX. SPACING = 12'-0" SEE DET. B4 / S110
- ø ——	= A STEP IN FTG. ELEVATION SEE DETAIL B1 / S110
20 / -2'-0"	= TYPE 20 FDN. WITH T/FTG. @ -2' - 0" FROM BASEMENT LEVEL FIN FLR ELEV. = 843.40' = 0'-0"
BP#	= BASE PLATE TYPE #. SEE DETAILS ON S112.
F.B.	= FACE OF BRICK
M.E.	= MATCH EXISTING
T/FTG	= TOP OF FOOTING
	= 3 HOUR RATED FIRE WALL, SEE ARCH.
	= #57 STONE RETAINING WALL BACKFILL
	= STA-LITE RETAINING WALL BACKFILL
WCJ	= WALL CONSTRUCTION JOINT. SEE DETAIL A4 / S114
WP	= WALL CONTROL JOINT (WEAKENED PLANE) SEE DETAIL A5 / S114

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

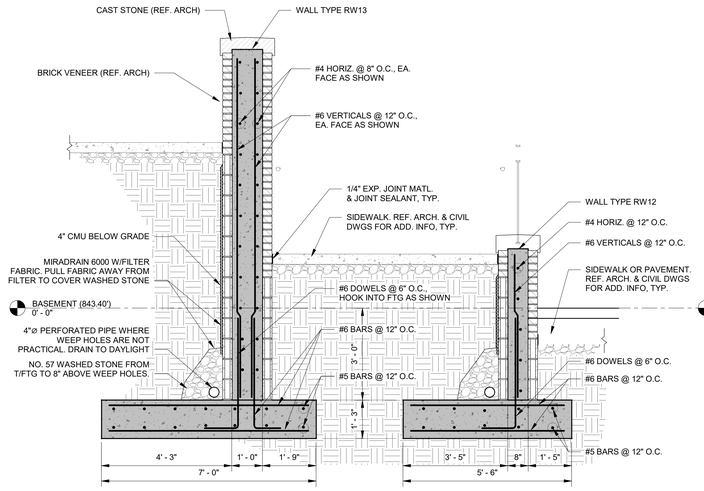
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

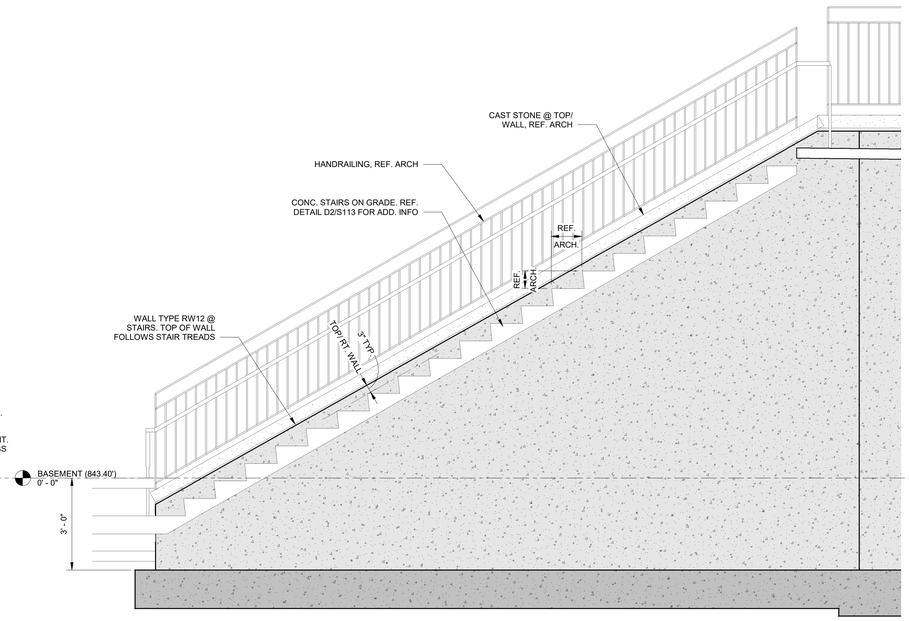
PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
RETAINING WALL PLAN

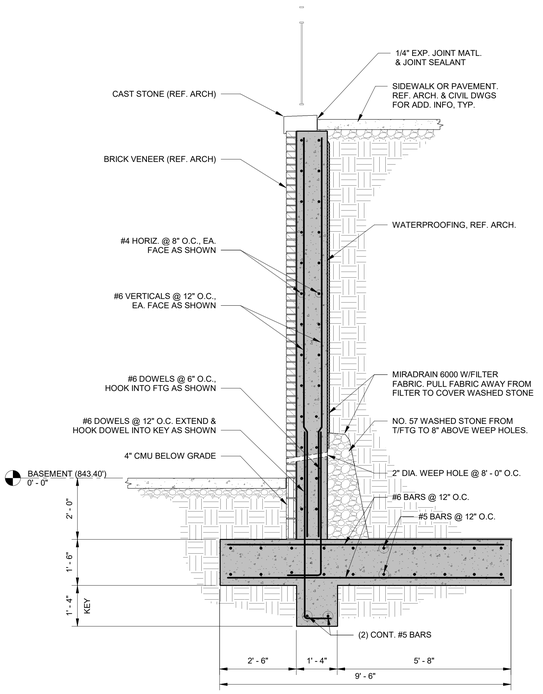
SHEET NO. S101
PROJ. NO. 20242



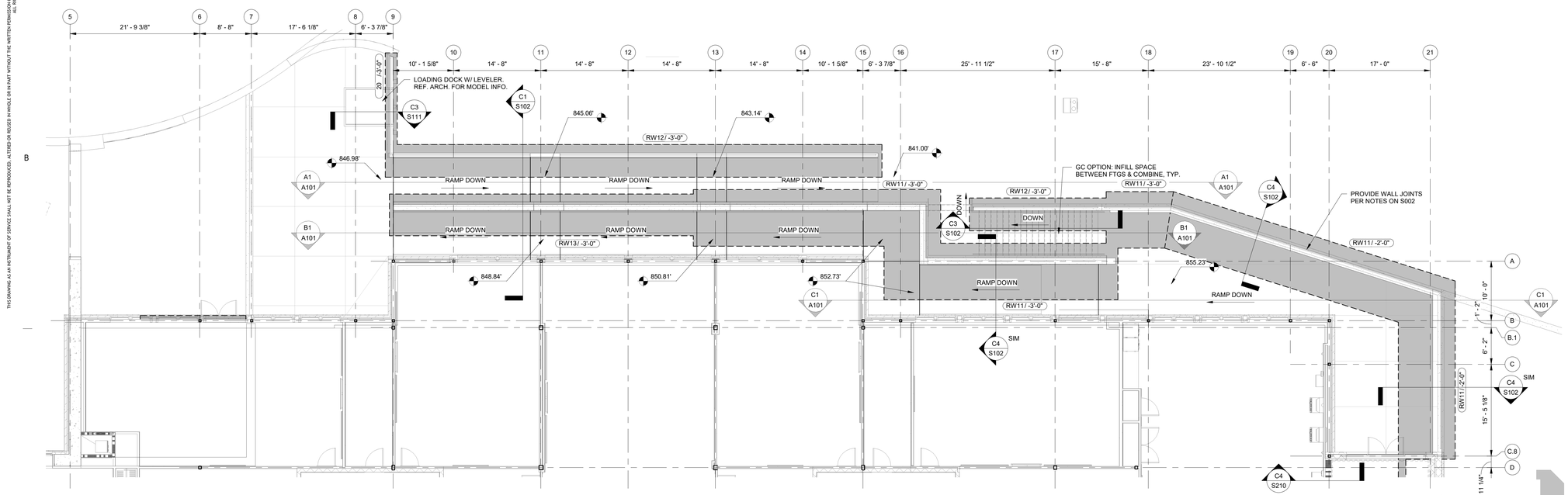
C1 / S102 **SECTION @ NORTH RAMP LOOKING WEST**
1/2" = 1'-0"



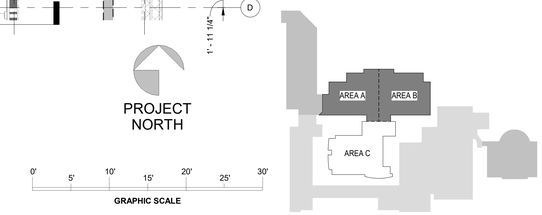
C3 / S102 **SECTION THRU STAIRS**
1/2" = 1'-0"



C4 / S102 **SECTION THRU RW11**
1/2" = 1'-0"



A1 / S102 **NORTH RAMP AND DOCK PLAN**
1/8" = 1'-0"



0' 5' 10' 15' 20' 25' 30'
GRAPHIC SCALE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
NORTH DOCK AND RAMP PLAN, SECTIONS & DETAILS

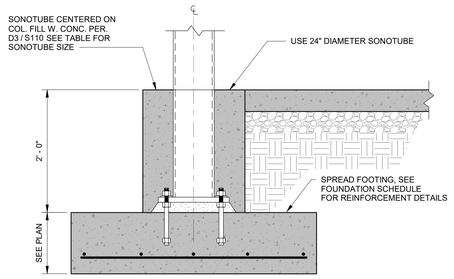
PROJ. NO. 20242

S102

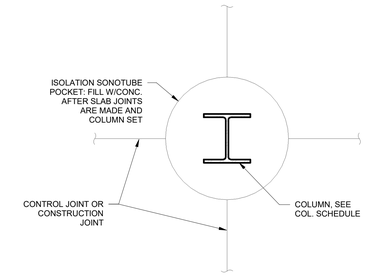
TABLE 2: LAP SPLICE SCHEDULE (inches)				
BAR SIZE	LOCATION	f'c = 3,000 CLASS 'B'	f'c = 4,000 CLASS 'B'	f'c = 5,000 CLASS 'B'
#3	TOP BARS	28"	24"	22"
	BOT. BARS	22"	18"	17"
#4	TOP BARS	37"	32"	29"
	BOT. BARS	29"	24"	22"
#5	TOP BARS	46"	40"	36"
	BOT. BARS	36"	30"	28"
#6	TOP BARS	56"	48"	43"
	BOT. BARS	42"	36"	33"
#7	TOP BARS	80"	70"	63"
	BOT. BARS	62"	54"	48"
#8	TOP BARS	93"	80"	72"
	BOT. BARS	72"	62"	55"
#10	TOP BARS	118"	102"	91"
	BOT. BARS	90"	78"	70"

* TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT HAVING MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

D1 S110 REBAR SPLICE SCHEDULE
12" = 1'-0"

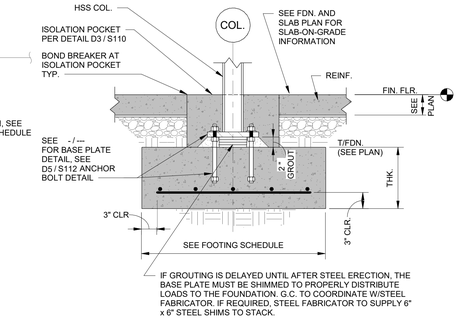


D2 S110 SONOTUBE SECTION @ COL. ISOLATION POCKET
1" = 1'-0"

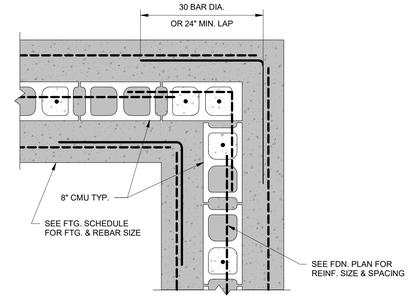


NOTES:
1. JOINT SHOWN FOR AN INTERIOR COLUMN AND SHALL BE SIMILAR FOR COLUMNS LOCATED NEAR EDGES AND CORNERS OF SLAB. CONSTRUCT ALL ISOLATION JOINTS AS REQUIRED TO ASSURE 3" MINIMUM COVER FOR ALL STEEL BELOW FINISHED FLOOR.
2. PROVIDE RE-ENTRANT REINFORCING FOR ALL CORNERS OF SLAB ON GRADE AS SHOWN IN DETAIL C3 / S110
3. SEE CONC. NOTES FOR RECOMMENDED JOINT SPACING.
4. SEE D2 / S110 FOR SONOTUBE SECTION.

D3 S110 TYP. COL. ISOLATION POCKET DETAIL
1" = 1'-0"



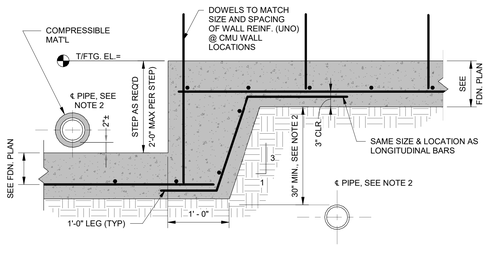
D4 S110 TYPICAL COLUMN FOOTING WITHOUT PIER
1" = 1'-0"



D5 S110 TYP. FTG. REINFORCEMENT AT CORNERS
1" = 1'-0"

MINIMUM CONCRETE COVER REQUIREMENTS FOR REINFORCED CONCRETE	
TYPE OF CONCRETE	MINIMUM CONCRETE COVER
ALL CONCRETE CAST AGAINST EARTH	3"
ALL CONCRETE EXPOSED TO EARTH OR WEATHER AFTER REMOVAL OF FORMS	
ALL BAR SIZES	2"
ALL CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	
ALL BARS IN BEAMS, GIRDERS OR COLUMNS	1 1/2"
NO. 11 BARS AND SMALLER IN SLABS AND WALLS	3/4"
NO. 14 AND NO. 18 BARS IN SLABS AND WALLS	1 1/2"

C1 S110 MIN. CONCRETE COVER REQUIREMENTS
1" = 1'-0"

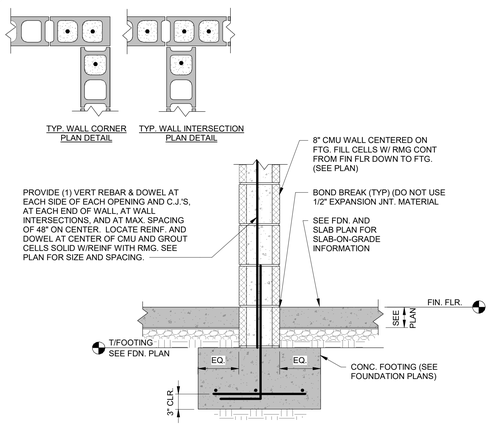


NOTES:
1. SEE FOUNDATIONS DRAWINGS FOR TOP OF FOOTING ELEVATIONS WHERE NOT NOTED, GENERAL CONTRACTOR SHALL ADHERE TO THE FOLLOWING.

2. PIPING ROUTED BELOW FOUNDATIONS SHALL BE D.I.P. OR MATERIAL CAPABLE OF WITHSTANDING 3000 PSF BEARING PRESSURE OR SHALL BE LOCATED A MINIMUM OF 30" FROM BOTTOM OF FOOTING TO TOP OF PIPE. SEE PLUMBING DRAWINGS.

3. PIPING ROUTED ABOVE FOUNDATIONS MAY REQUIRE FOOTING TO BE STEPPED LOCALLY (1'-0"± E.S. OF PIPE). PROVIDE A FORMED OPENING (OR PIPE SLEEVE) FOR PIPING TO PASS THROUGH WHICH IS 2" LARGER THAN THE PIPE DIAMETER. THE GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION REINFORCING WITH THE REBAR SUPPLIER PRIOR TO PLACING CONCRETE.

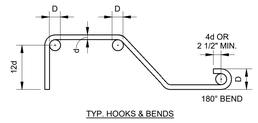
B1 S110 TYP. STEP FTG. & PLUMBING REQUIREMENTS
1" = 1'-0"



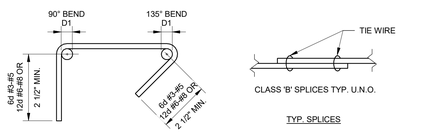
A1 S110 TYP. 8" CMU INT. WALL FTG
1" = 1'-0"

MINIMUM BEND DIAMETERS
D = 6d FOR #3 THRU #8
D = 8d FOR #9 THRU #11
D = 10d FOR #14 THRU #18
MINIMUM INSIDE

STIRRUP & TIES MINIMUM BEND DIAMETERS
D_1 = 4d FOR #3 THRU #5
D_1 = 6d FOR #6 THRU #8



TYP. HOOKS & BENDS

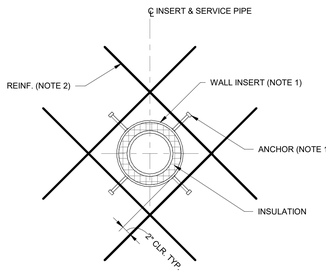


TYP. STIRRUPS & TIES

CLASS 'B' SPLICES TYP. U.N.O.

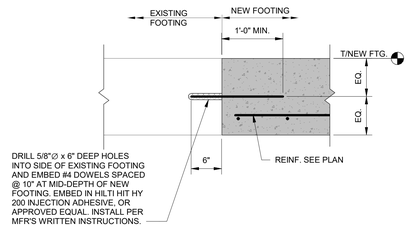
TYP. SPLICES

C2 S110 REBAR BEND DETAIL
1 1/2" = 1'-0"

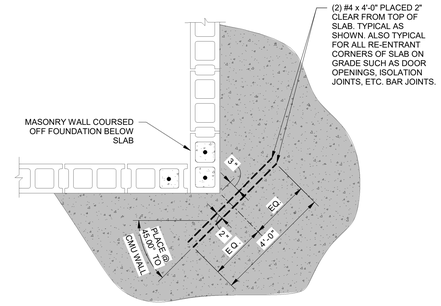


NOTES:
1. PROVIDE SCHD. 40 GALV. WALL INSERT WITH (4) 1/2"∅ x 4" HEADED CONCRETE HEADED ANCHORS. SIZE OF INSERT SHALL BE 2" LARGER THAN SERVICE PIPE.
2. PROVIDE (4) #4 x 3'-6" DIAGONAL BARS EACH FACE (8 BARS TOTAL) OF EACH OPENING.

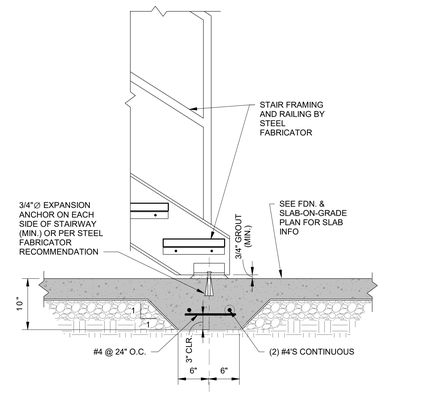
1 S110 TYP. CONCRETE WALL PIPE SLEEVE
1" = 1'-0"



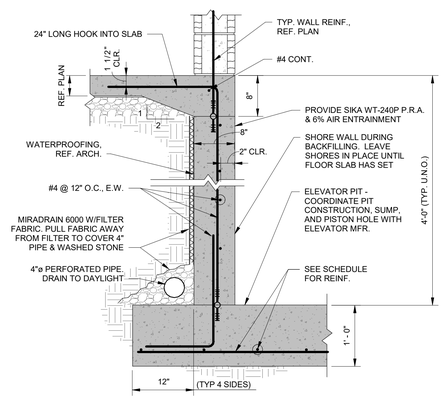
A2 S110 NEW FTG. DOWELLED INTO (E) FTG. DETAIL
1" = 1'-0"



C3 S110 TYP. SLAB RE-ENTRANT CORNER DETAIL
1" = 1'-0"



B3 S110 STAIRWAY BASE DETAIL
1" = 1'-0"

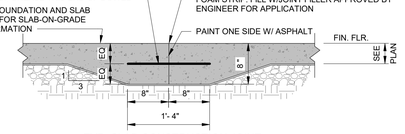


A3 S110 ELEVATOR PIT FOUNDATION W/ DRAIN TILE
1" = 1'-0"

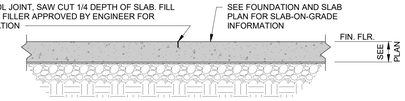
AT GC'S OPTION, IT IS ACCEPTABLE TO USE PNA CONSTRUCTION TECHNOLOGIES DIAMOND DOWEL SYSTEM (OR AN APPROVED EQUAL) AT CONCRETE SLAB ON GRADE CONSTRUCTION JOINTS IN LIEU OF SMOOTH BAR DOWELS AS INDICATED. THE GC SHALL SUBMIT TO THE ENGINEER OF RECORD THE FOLLOWING FOR APPROVAL PRIOR TO USING THE DIAMOND DOWEL SYSTEM:

1. THE PROPOSED DIAMOND DOWEL LOCATION IN PLAN
2. THE DIAMOND DOWEL DIMENSIONS THAT ARE BEING REQUESTED TO BE USED
3. THE DIAMOND DOWEL SPACING THAT IS BEING REQUESTED
4. THE PROPOSED SLAB ON GRADE THICKNESS AT THE DIAMOND DOWEL'S

UPON APPROVAL BY THE EOR, THE GC IS RESPONSIBLE FOR INSTALLING THE DIAMOND DOWEL SYSTEM PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS

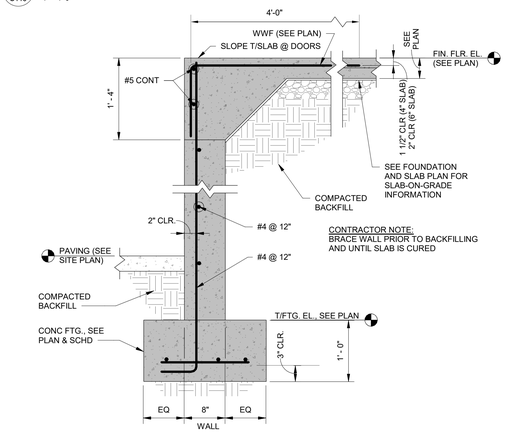


TYP. SLAB CONSTRUCTION JOINT



TYP. SLAB SAWED JOINT

B4 S110 TYPICAL JOINT DETAIL W/ MACRO-FIBERS FOR S.O.G.
1" = 1'-0"



C4 S110 TYP. FTG. REINFORCEMENT AT FTG. INTERSECTIONS
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION FOR PRICING ONLY

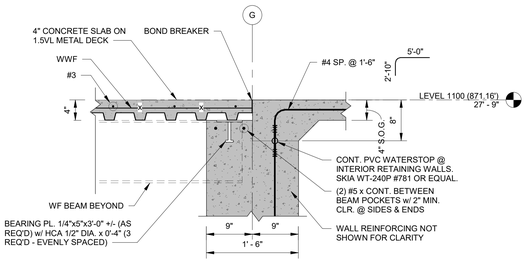
GMP SET 06/01/22

PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION SECTIONS & DETAILS

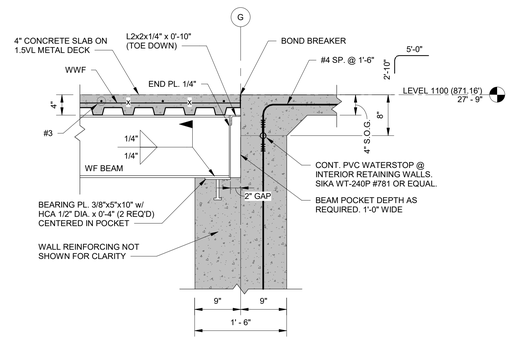
SHEET NO. S110

PROJ. NO. 20242



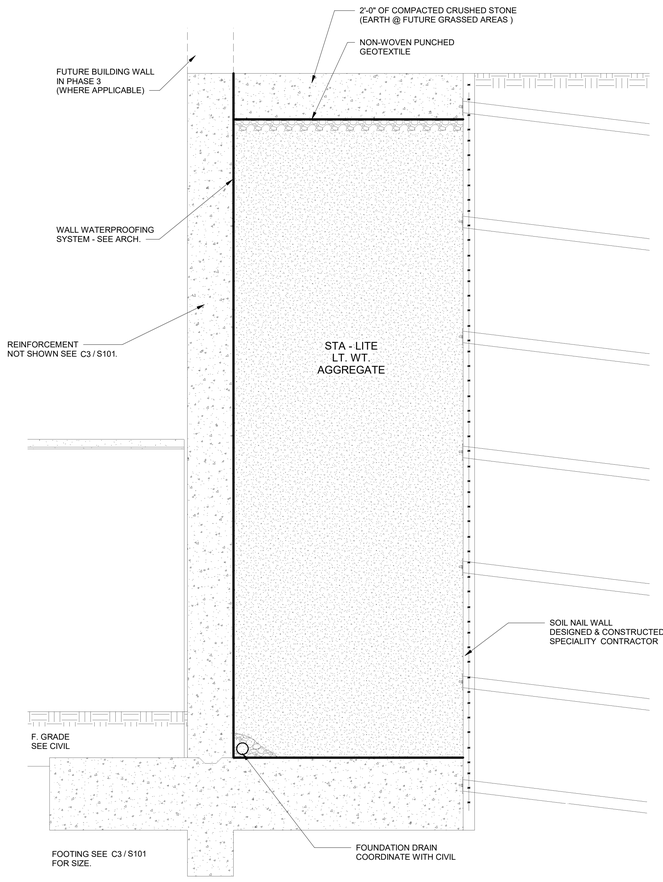
D1 S111 **DETAIL @ SLAB BEARING BETWEEN BEAM POCKETS (COL. LINE G)**

1" = 1'-0"



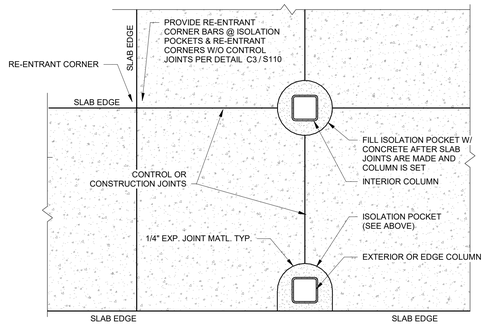
C1 S111 **DETAIL @ BEAM BEARING ON RETAINING WALL (COL. LINE G)**

1" = 1'-0"



A1 S111 **RETAINING WALL**

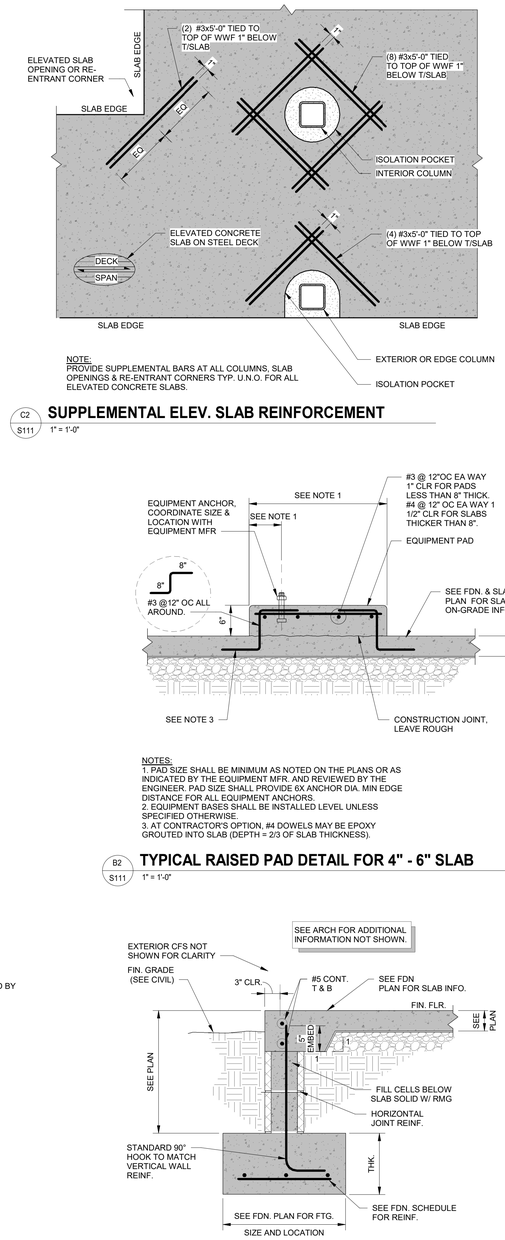
3/8" = 1'-0"



NOTE:
PROVIDE SUPPLEMENTAL BARS AT ALL COLUMNS, SLAB OPENINGS & RE-ENTRANT CORNERS THAT ARE NOT INTERSECTED BY CONTROL/CONSTRUCTION JOINTS U.N.O.

D2 S111 **SLAB-ON-GRADE ISOLATION DETAIL**

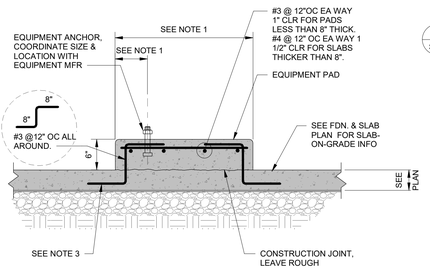
1" = 1'-0"



NOTE:
PROVIDE SUPPLEMENTAL BARS AT ALL COLUMNS, SLAB OPENINGS & RE-ENTRANT CORNERS TYP. U.N.O. FOR ALL ELEVATED CONCRETE SLABS.

C2 S111 **SUPPLEMENTAL ELEV. SLAB REINFORCEMENT**

1" = 1'-0"



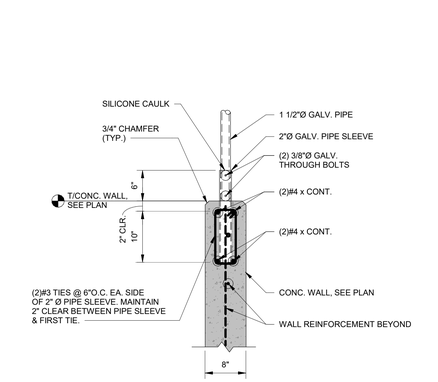
NOTES:
1. PAD SIZE SHALL BE MINIMUM AS NOTED ON THE PLANS OR AS INDICATED BY THE EQUIPMENT MFR. AND REVIEWED BY THE ENGINEER. PAD SIZE SHALL PROVIDE 6X ANCHOR DIA. MIN EDGE DISTANCE FOR ALL EQUIPMENT ANCHORS.
2. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
3. AT CONTRACTOR'S OPTION, #4 DOWELS MAY BE EPOXY GROUTED INTO SLAB (DEPTH = 2/3 OF SLAB THICKNESS).

B2 S111 **TYPICAL RAISED PAD DETAIL FOR 4" - 6" SLAB**

1" = 1'-0"

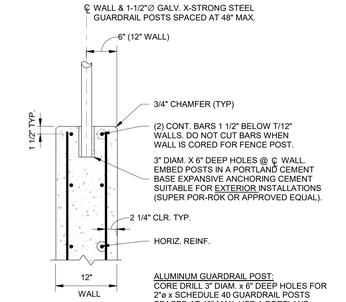
A2 S111 **TYP. TURNED DOWN SLAB DETAIL**

1" = 1'-0"



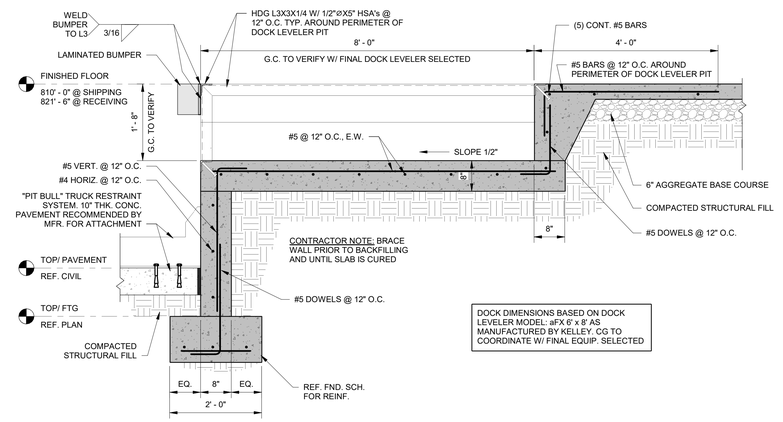
D4 S111 **GUARDRAIL @ T/CONC. WALL - REMOVABLE**

1" = 1'-0"



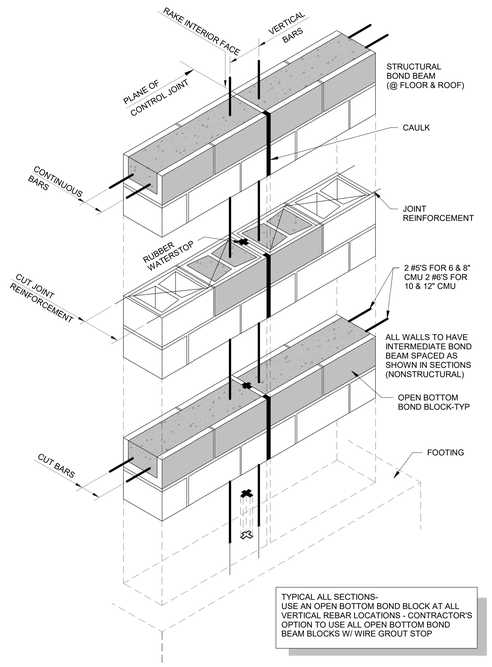
D5 S111 **GUARD RAIL EMBEDMENT POST 12" WALL**

1" = 1'-0"



C3 S111 **SECTION THRU DOCK LEVELER**

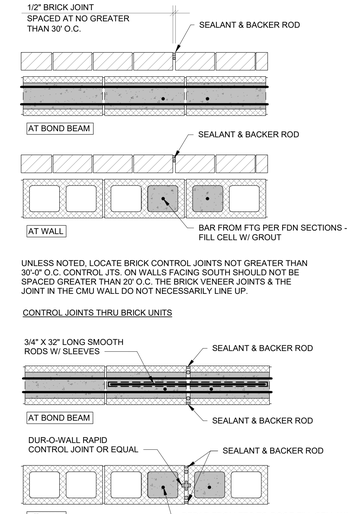
3/4" = 1'-0"



NOTE :
ALL BOND BEAMS IN BEARING AND NON-BEARING WALLS RUN FULL LENGTH OF THE WALLS.
SEE D4/S204 FOR TYING BOND BEAM REBAR INTO CORNERS & PERPENDICULAR WALLS.

A3 S111 **TYPICAL MASONRY CONTROL JOINT DETAIL (MCJ)**

1" = 1'-0"



UNLESS NOTED, LOCATE BRICK CONTROL JOINTS NOT GREATER THAN 30'-0" O.C. CONTROL JTS. ON WALLS FACING SOUTH SHOULD NOT BE SPACED GREATER THAN 20' O.C. THE BRICK VENEER JOINTS & THE JOINT IN THE CMU WALL DO NOT NECESSARILY LINE UP.

CONTROL JOINTS THRU BRICK UNITS

PLACEMENT OF MASONRY CONTROL JOINTS
1. UNLESS NOTED, LOCATE CONTROL JOINTS NOT GREATER THAN (2 1/2) TIMES THE WALL HT. NOR 25'-0" O.C. WHICH EVER IS LESS.
2. ADJACENT TO CORNERS, PLACE FIRST JOINT WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING.
3. DO NOT LOCATE AT DOORS OR WINDOWS.
4. AT CHANGES IN WALL HEIGHTS.
5. AT CHANGES IN WALL THICKNESS

MCJ THRU BRICK & CMU UNITS
MASONRY CONTROL JOINTS WITH BRICK SHOWN
MASONRY CONTROL JOINTS WITHOUT BRICK SIMILAR
SEE ARCH DWGS FOR LOCATIONS OF BRICK VENEER CONTROL JOINTS

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SEALS

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DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION SECTIONS & DETAILS

SHEET NO. S111

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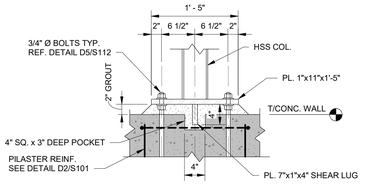
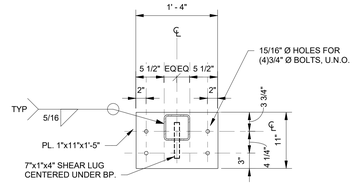
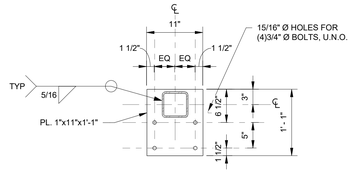


ELEVATION



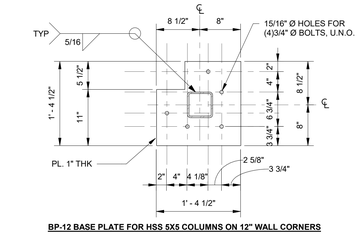
BP-11 BASE PLATE FOR HSS 5X5 COLUMNS ON 18" WALLS

C1 S112 BASE PLATE DETAIL (BP-11)
1" = 1'-0"



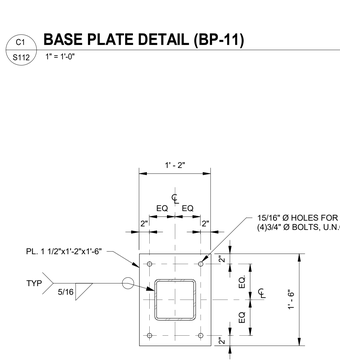
BP-11 BASE PLATE FOR HSS 5X5 COLUMNS ON 18" WALLS

D2 S112 BASE PLATE DETAIL (BP-13)
1" = 1'-0"



BP-12 BASE PLATE FOR HSS 5X5 COLUMNS ON 12" WALL CORNERS

C2 S112 BASE PLATE DETAIL (BP-12)
1" = 1'-0"

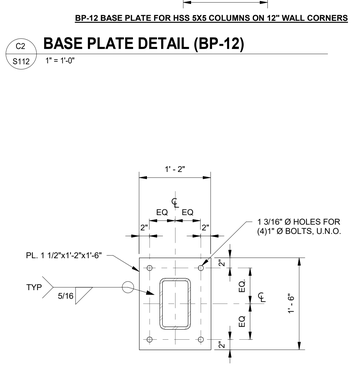


BP-6 BASE PLATE FOR HSS 9X9 COLUMNS

B1 S112 BASE PLATE DETAIL (BP-6)
1" = 1'-0"

BP-1 BASE PLATE FOR HSS 4X4 COLUMNS

A1 S112 BASE PLATE DETAIL (BP-1)
1" = 1'-0"

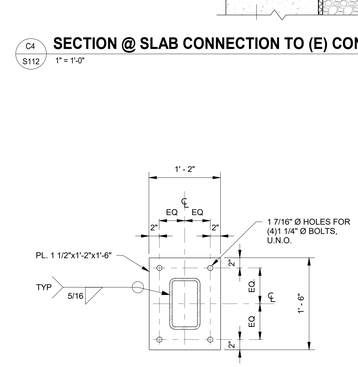


BP-7 BASE PLATE FOR HSS 10X6X1/2 COLUMNS

B2 S112 BASE PLATE DETAIL (BP-7)
1" = 1'-0"

BP-2 BASE PLATE FOR HSS 5X5 COLUMNS

A2 S112 BASE PLATE DETAIL (BP-2)
1" = 1'-0"

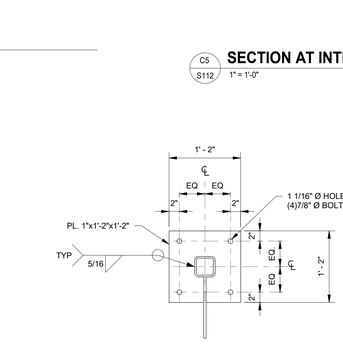


BP-8 BASE PLATE FOR HSS 10X6X5/8 COLUMNS

B3 S112 BASE PLATE DETAIL (BP-8)
1" = 1'-0"

BP-3 BASE PLATE FOR HSS 6X6 COLUMNS

A3 S112 BASE PLATE DETAIL (BP-3)
1" = 1'-0"

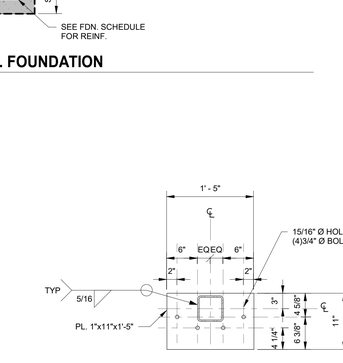


BP-9 BASE PLATE FOR BRACED FRAME HSS 4X4 & HSS 5X5 COLUMNS

B4 S112 BASE PLATE DETAIL (BP-9)
1" = 1'-0"

BP-4 BASE PLATE FOR HSS 8X6 COLUMNS

A4 S112 BASE PLATE DETAIL (BP-4)
1" = 1'-0"

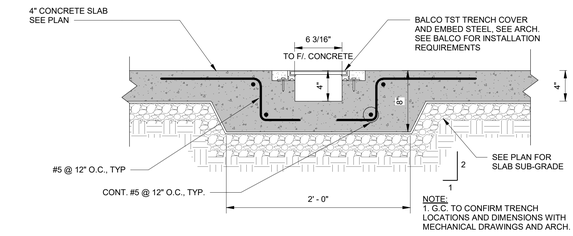


BP-10 BASE PLATE FOR HSS 5X5 COLUMNS ON 12" WALLS

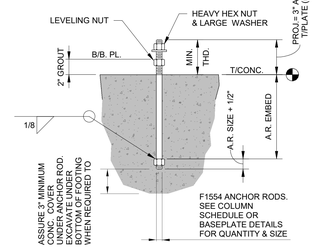
B5 S112 BASE PLATE DETAIL (BP-10)
1" = 1'-0"

BP-5 BASE PLATE FOR HSS 8X8 COLUMNS

A5 S112 BASE PLATE DETAIL (BP-5)
1" = 1'-0"

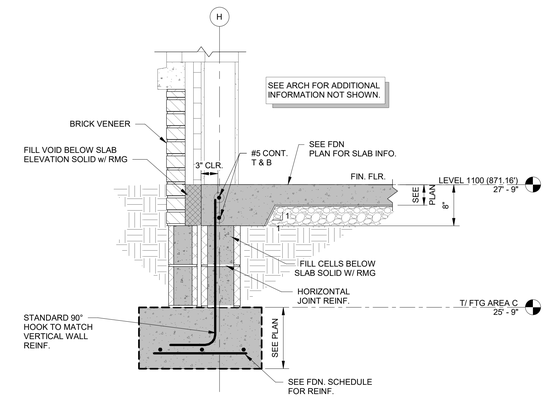


D4 S112 DETAIL AT TRENCH
1 1/2" = 1'-0"

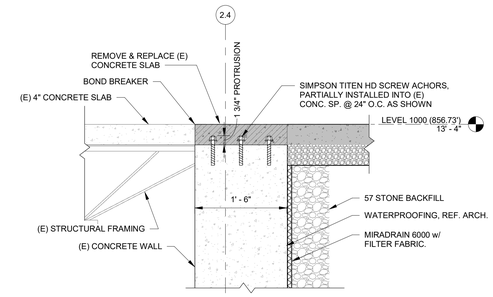


TYPICAL ANCHOR ROD DETAIL NOTE:
PROVIDE THE FOLLOWING A.R. EMBED (U.N.O.)
3/4"Ø.....11" MINIMUM Fv= 36ksi
1"Ø.....11" MINIMUM Fv= 36ksi
1 1/4"Ø.....14" MINIMUM Fv= 55ksi
1 1/2"Ø.....17" MINIMUM Fv= 55ksi

D5 S112 TYPICAL ANCHOR ROD DETAIL
1" = 1'-0"



C5 S112 SECTION AT INTERIOR S.O.G. FOUNDATION
1" = 1'-0"



C4 S112 SECTION @ SLAB CONNECTION TO (E) CONC. WALL
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

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FOR PRICING ONLY

GMP SET 06/01/22

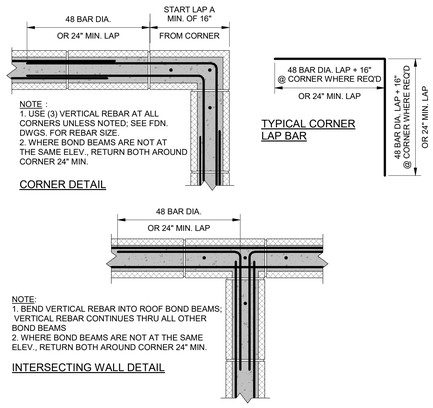
PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

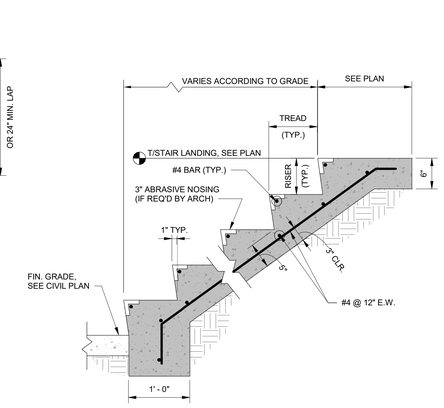
FOUNDATION SECTIONS & DETAILS

SHEET NO. PROJ. NO. 20242

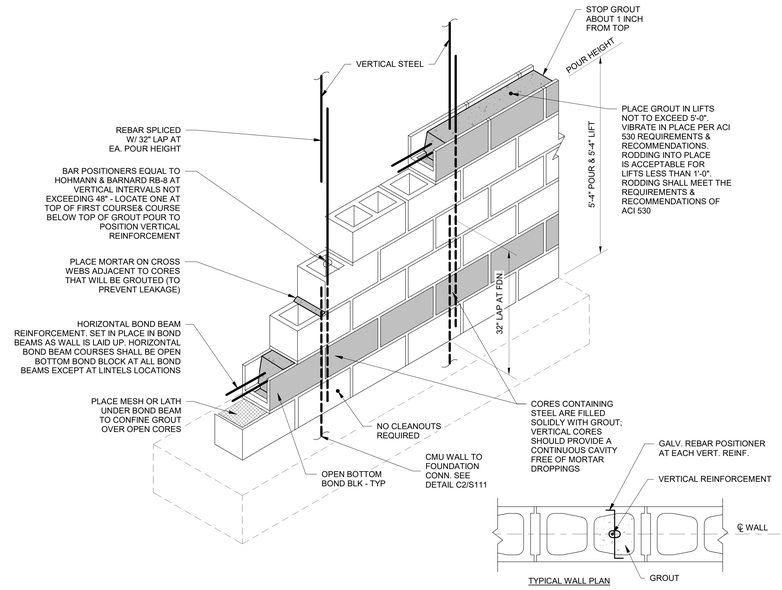
S112



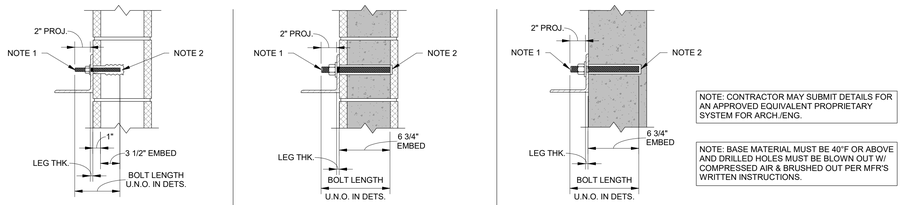
D1 / S113 **TYP. BOND BEAM DETAILS**
1" = 1'-0"



D2 / S113 **TYP. CONCRETE STAIR SECTION**
1" = 1'-0"



C4 / S113 **LOW LIFT GROUT METHOD**
1" = 1'-0"



SIMPSON SET-XP H.S. EPOXY-TIE ADHESIVE WITH SCREEN, IN HOLLOW CMU

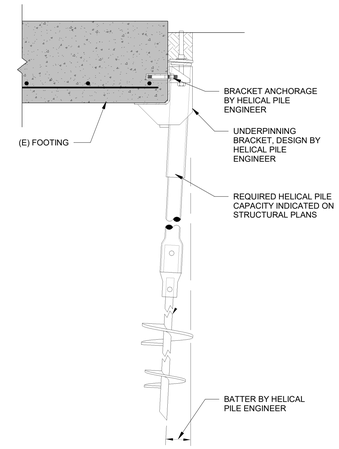
NOTE:
1. USE 3/4"∅ A307 THREADED ROD. SEE DETAILS FOR SPACING OF BOLTS.
2. DRILL 1"∅ HOLE & INSTALL BOLTS USING CARBON- STEEL SCREEN TUBES & SIMPSON SET ADHESIVE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. REFERENCE A1/ S113 FOR SPACING REQUIREMENTS

SIMPSON SET-XP H.S. EPOXY-TIE ADHESIVE, IN GROUT FILLED CMU

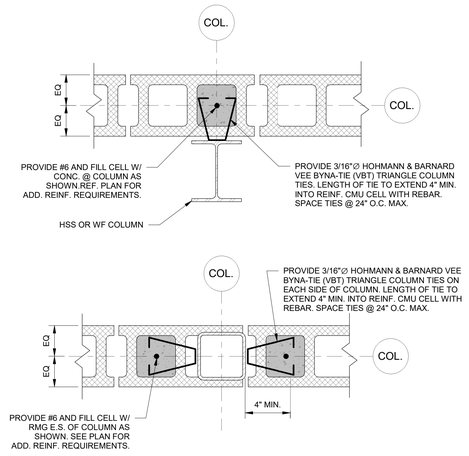
NOTE:
1. USE 3/4"∅ A307 THREADED ROD ANCHOR. SEE DETAILS FOR SPACING OF BOLTS.
2. DRILL 7/8"∅ HOLE & INSTALL BOLTS USING SIMPSON SET ADHESIVE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. REFERENCE A1/ S113 FOR SPACING REQUIREMENTS

SIMPSON SET-XP H.S. EPOXY-TIE ADHESIVE, IN SOLID NORMAL WT. CONCRETE

NOTE:
1. USE 3/4"∅ A307 THREADED ROD ANCHOR. SEE DETAILS FOR SPACING OF BOLTS.
2. DRILL 7/8"∅ HOLE & INSTALL BOLTS USING SIMPSON SET ADHESIVE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. REFERENCE A1/ S113 FOR SPACING REQUIREMENTS



B1 / S113 **SECTION AT HELICAL PIER**
1" = 1'-0"

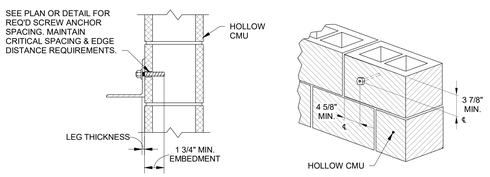


B3 / S113 **TYP. COL. TIES INTO CMU**
1 1/2" = 1'-0"

CMU (HOLLOW)				
HOLE DIA./ DRILL BIT	EMBEDMENT	MINIMUM EDGE DISTANCE	MINIMUM SPACING	CRITICAL SPACING
1/2"∅	1 3/4"	4"	4"	8"
5/8"∅	1 3/4"	4"	4"	8"
3/4"∅	1 3/4"	4"	4"	8"

CMU (GROUT FILLED)				
HOLE DIA./ DRILL BIT	EMBEDMENT	CRITICAL EDGE DISTANCE	CRITICAL EDGE DISTANCE	CRITICAL SPACING
1/2"∅	3 1/2"	12"	12"	8"
5/8"∅	4 1/2"	12"	12"	10"
3/4"∅	5 1/2"	12"	12"	12"

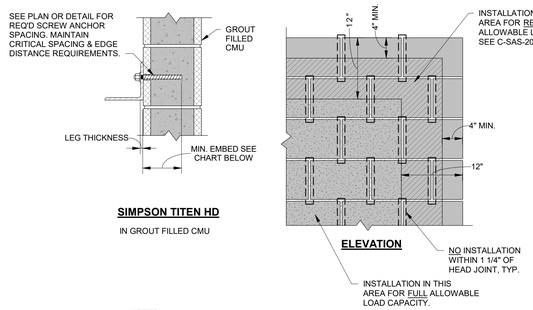
CAST IN PLACE CONCRETE			
TENSION ONLY			
HOLE DIA./ DRILL BIT	EMBEDMENT	CRITICAL EDGE DISTANCE	CRITICAL SPACING
1/2"∅	5 3/4"	4"	8"
5/8"∅	5 3/4"	5"	10"
3/4"∅	5 3/4"	6"	12"
SHEAR ONLY			
HOLE DIA./ DRILL BIT	EMBEDMENT	CRITICAL EDGE DISTANCE	CRITICAL SPACING
1/2"∅	5 3/4"	6"	8"
5/8"∅	5 3/4"	7 1/2"	10"
3/4"∅	5 3/4"	9"	12"



SIMPSON TITEN HD
IN HOLLOW CMU

ISOMETRIC

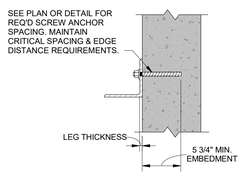
NOTES:
1. USE DRILL BIT SIZE EQUAL TO SCREW ANCHOR DIAMETER.
2. SET DRILL TO ROTATION-ONLY MODE WHEN DRILLING INTO HOLLOW CMU.
3. DO NOT USE IMPACT WRENCHES TO INSTALL IN HOLLOW CMU.
4. THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f'm @ 28 DAYS IS 2000 psi.



SIMPSON TITEN HD
IN GROUT FILLED CMU

ELEVATION

NOTES:
1. USE DRILL BIT SIZE EQUAL TO SCREW ANCHOR DIAMETER.
2. THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f'm @ 28 DAYS IS 2000 psi.



SIMPSON TITEN HD
IN SOLID NORMAL WT. CONCRETE

NOTES:
1. USE DRILL BIT SIZE EQUAL TO SCREW ANCHOR DIAMETER.

B5 / S113 **SIMPSON HIGH STRENGTH EPOXY ADHESIVE INSTALLATION DETAILS**
1" = 1'-0"

A1 / S113 **SIMPSON INSTALLATION DETAILS - TITEN H.D. SCREW ANCHORS**
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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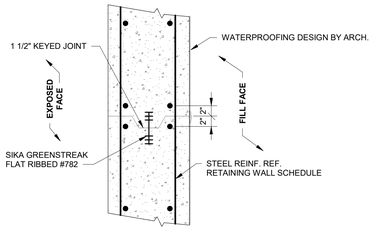
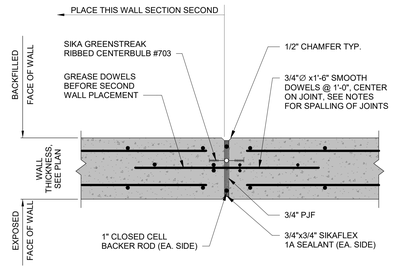
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FOUNDATION SECTIONS & DETAILS

SHEET NO. S113
PROJ. NO. 20242

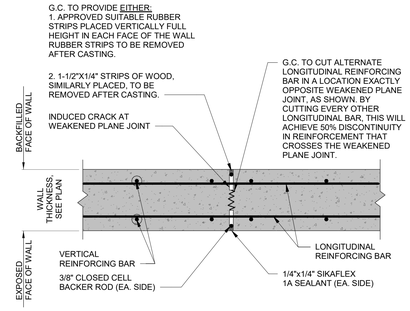


A3 / S114 **RETAINING WALL HORIZONTAL CONSTRUCTION JOINT**
1" = 1'-0"



PLAN VIEW

A4 / S114 **TYP. CONC. WALL EXPANSION JOINT (CONSTRUCTION JOINT)**
1" = 1'-0"



PLAN VIEW

A5 / S114 **TYP. CONC. WALL CONTRACTION JOINT (WEAKENED PLANE)**
1" = 1'-0"

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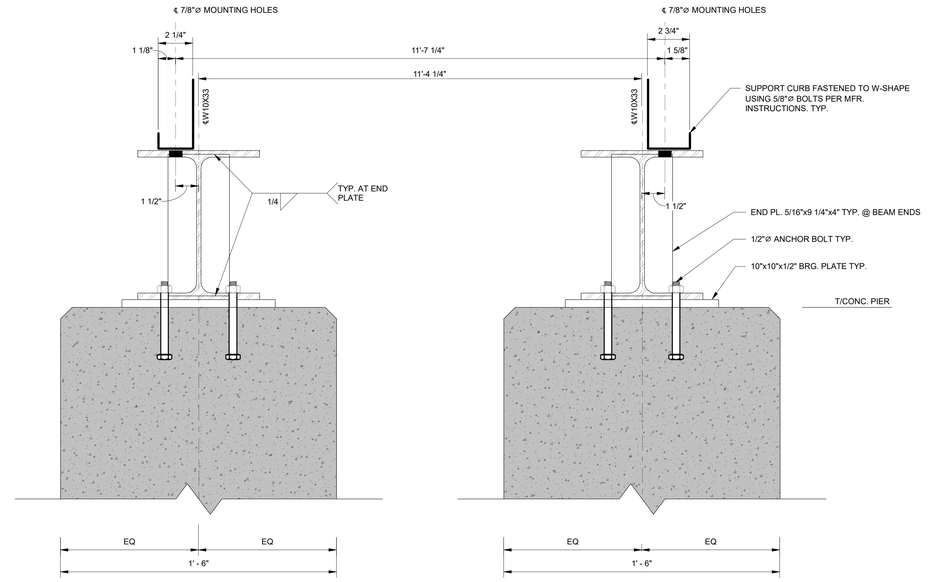
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

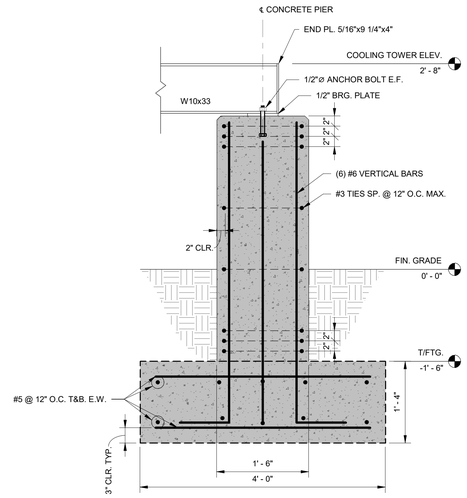
FOUNDATION SECTIONS & DETAILS

SHEET NO. PROJ. NO. 20242

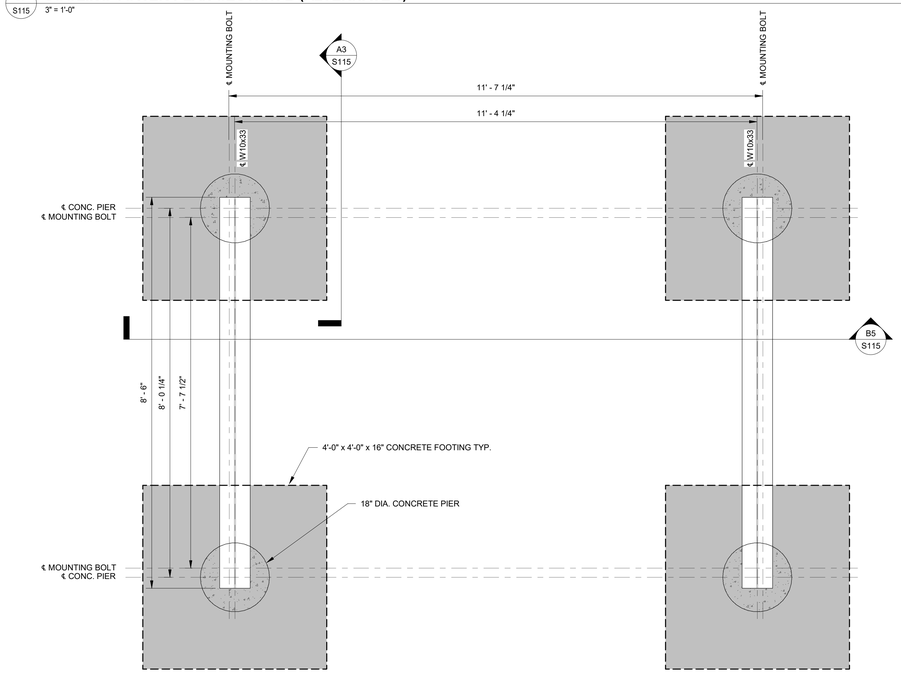
S114



B5 / S115 **COOLING TOWER PLAN SECTION B (ALTERNATE 1)**
3" = 1'-0"



A3 / S115 **COOLING TOWER PLAN SECTION A (ALTERNATE 1)**
1" = 1'-0"



A5 / S115 **COOLING TOWER PLAN (ALTERNATE 1)**
3/4" = 1'-0"

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PHASE 2 ACADEMIC WING ADDITION

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GMP SET 06/01/22

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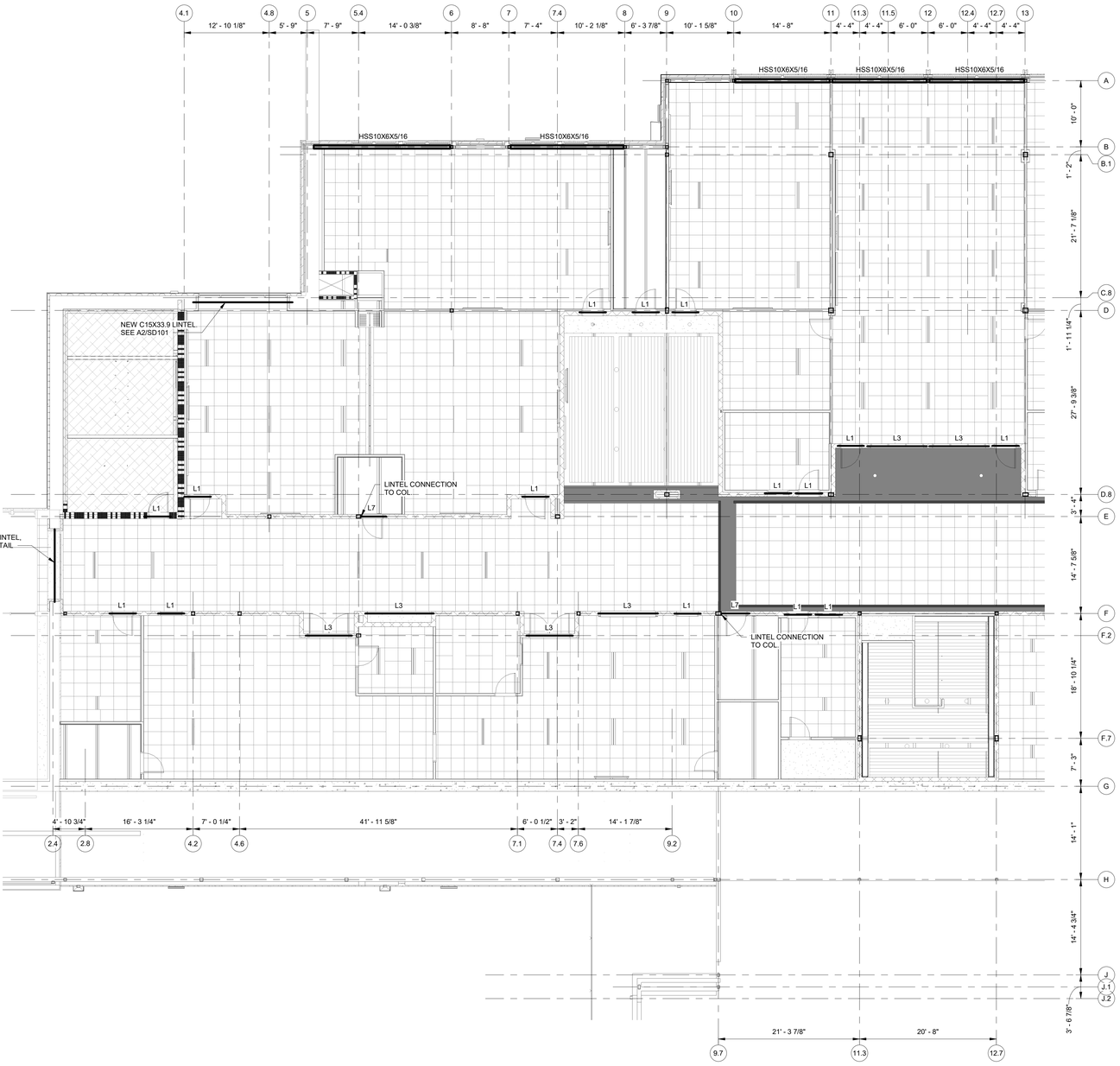
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

ALTERNATE 1 COOLING TOWER FDN. DETAILS

SHEET NO. S115

PROJ. NO. 20242



A1 S200 **LEVEL 1000 LINTEL PLAN - AREA 'A'**

1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE

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ARCHITECTURE

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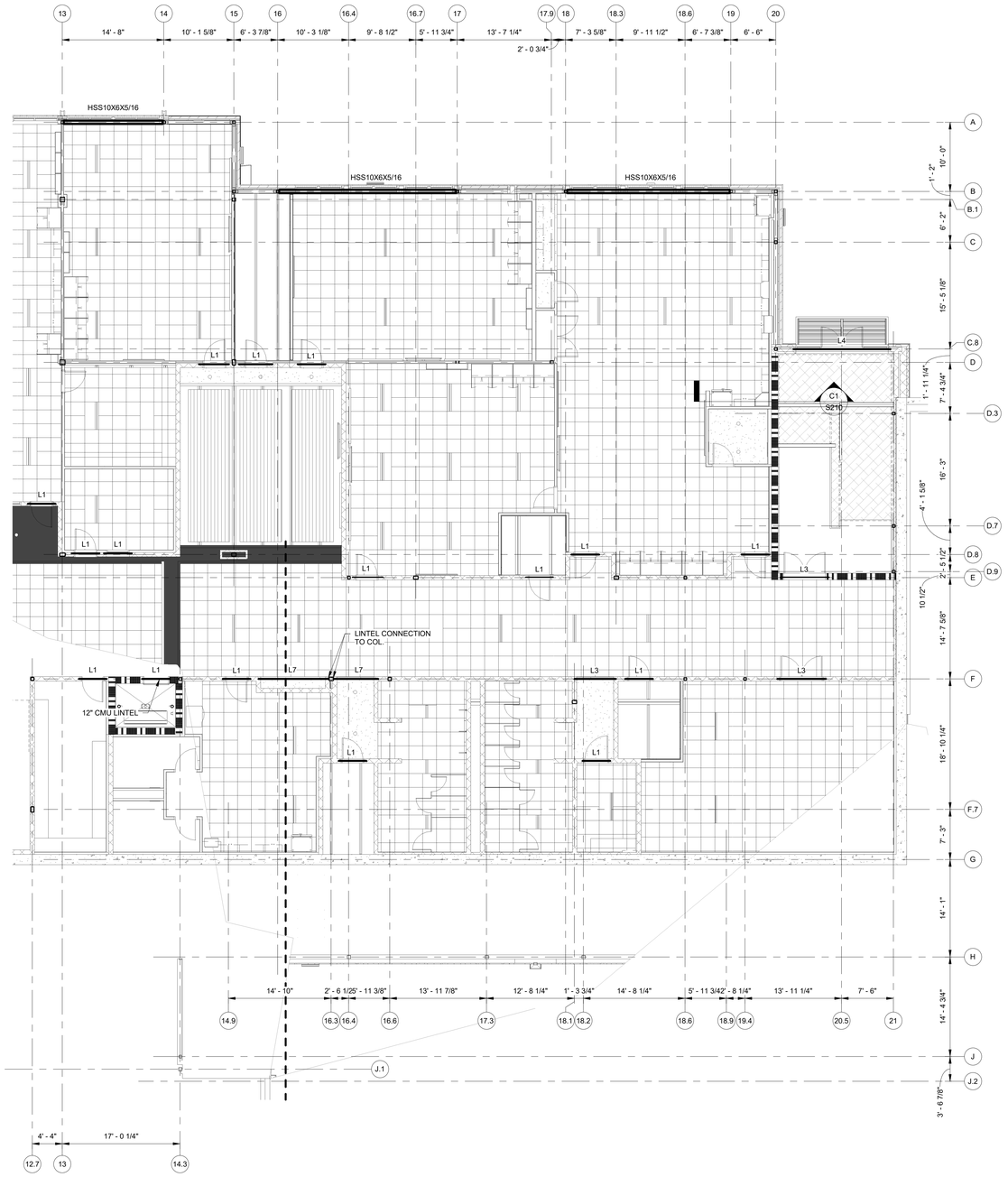
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1000 LEVEL LINTEL PLAN - AREA 'A'

SHEET NO. S200

PROJ. NO. 20242



A1 / S201 **LEVEL 1000 LINTEL PLAN - AREA 'B'**
1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

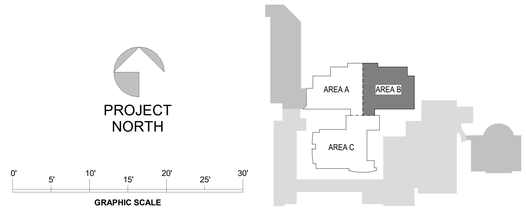
6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1000 LEVEL LINTEL PLAN - AREA 'B'

SHEET NO. S201

PROJ. NO. 20242

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

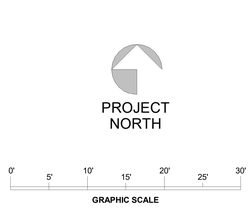
8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.

A1 / S202 **LEVEL 1100 LINTEL PLAN - AREA 'A'**

1/8" = 1'-0"



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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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FOR PRICING ONLY

GMP SET 06/01/22

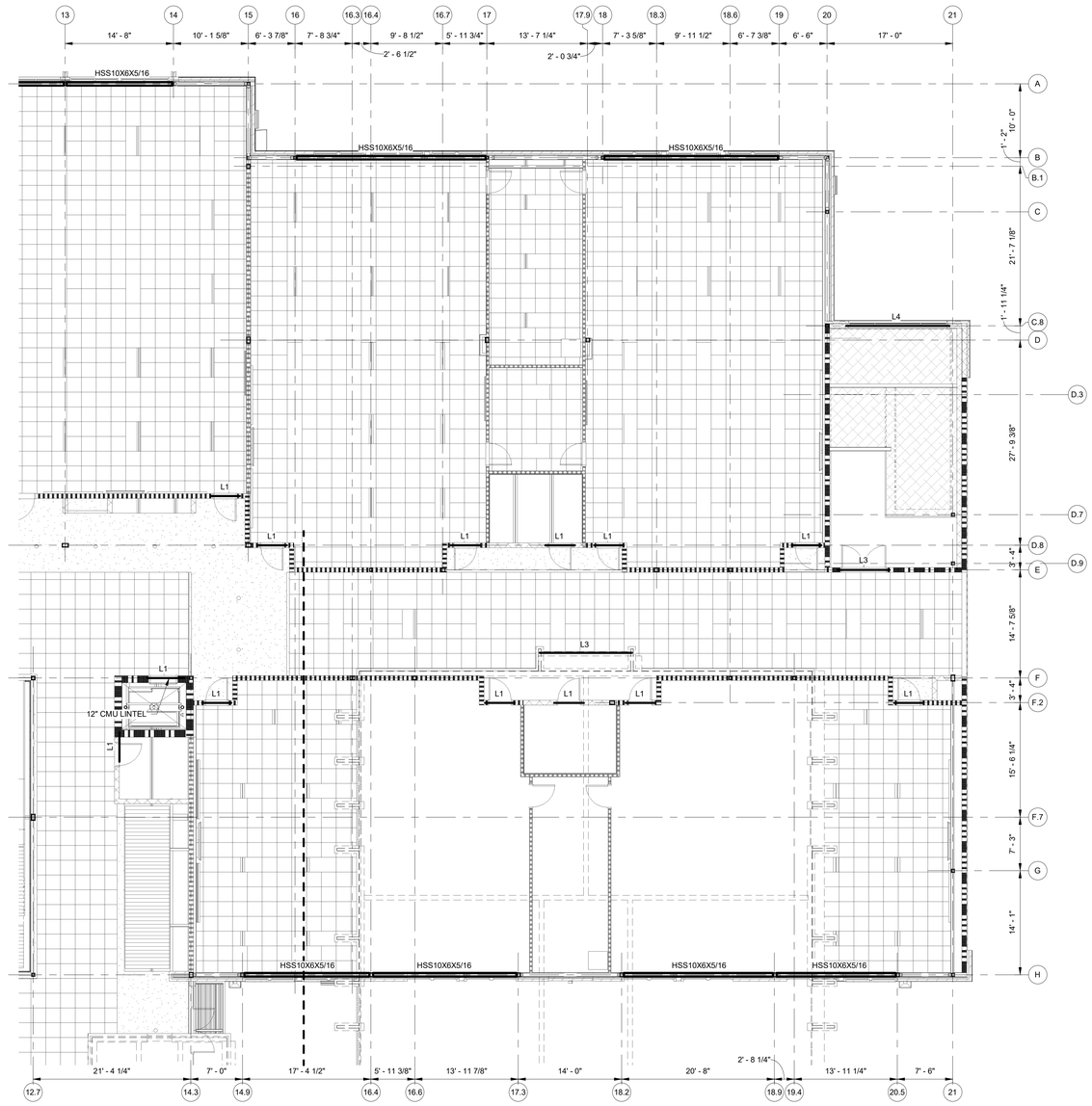
PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

1100 LEVEL LINTEL PLAN - AREA 'A'

SHEET NO. S202

PROJ. NO. 20242



A1/S203 **LEVEL 1100 LINTEL PLAN - AREA 'B'**

1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN S TREET
DUNCAN, SC 29334

SHEET ISSUE:

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FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BHJG,ATR

SHEET TITLE:

1100 LEVEL LINTEL PLAN - AREA 'B'

SHEET NO. S203

PROJ. NO. 20242

A1 / S204 **LEVEL 1100 LINTEL PLAN - AREA 'C'**

1/8" = 1'-0"

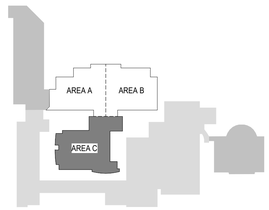
LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.
2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.
3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.
4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.
5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.
6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.
7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.
8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.
9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.
10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE



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GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1100 LEVEL LINTEL PLAN - AREA 'C'

SHEET NO. S204

PROJ. NO. 20242

A1 / S205 **LEVEL 1200 LINTEL PLAN - AREA 'A'**

1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

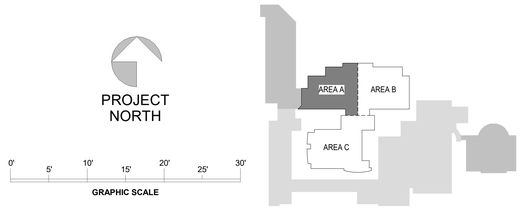
6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.



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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

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PHASE 2 ACADEMIC WING ADDITION

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GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1200 LEVEL LINTEL PLAN - AREA 'A'

SHEET NO. S205

PROJ. NO. 20242

A1 S206 **LEVEL 1200 LINTEL PLAN - AREA 'B'**

1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.

2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.

3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.

4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.

5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.

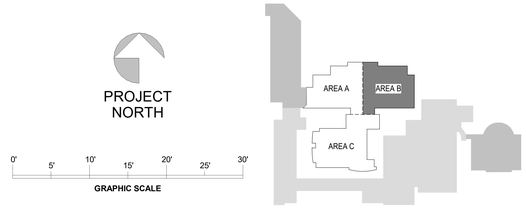
6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.

7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.

8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.

9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.

10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.



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FOR PRICING ONLY

GMP SET 06/01/22

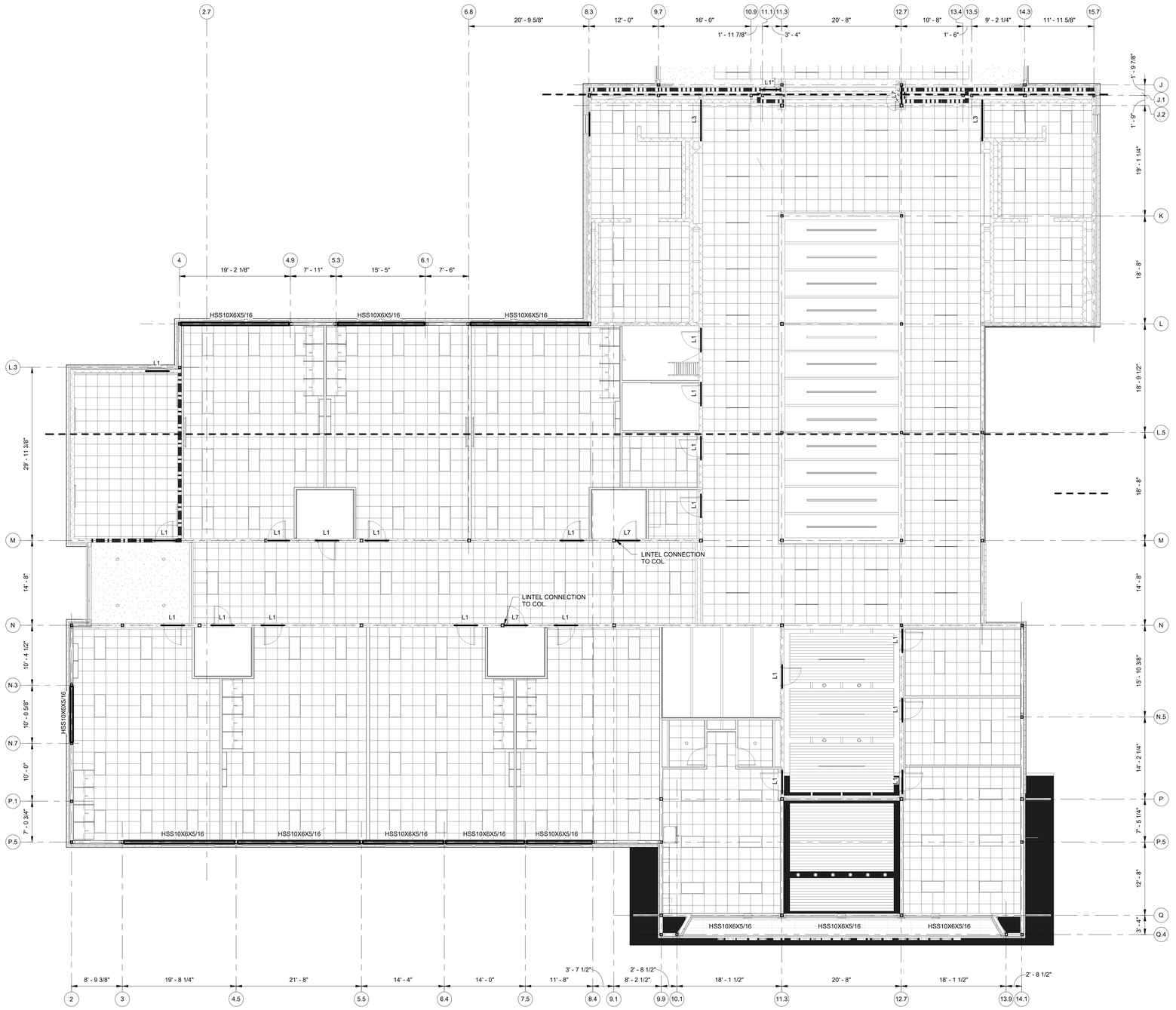
PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

1200 LEVEL LINTEL PLAN - AREA 'B'

SHEET NO. S206

PROJ. NO. 20242



A1/S207 **LEVEL 1200 LINTEL PLAN - AREA 'C'**
1/8" = 1'-0"

LINTEL NOTES:

1. DO NOT PLACE VERTICAL JOINTS WITHIN 16" OF ANY OPENING IN CMU BLOCK WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK VENEER CONTROL JOINTS.
2. ONLY LINTELS IN MASONRY WALL CONSTRUCTION ARE SHOWN.
3. COLD FORMED STEEL LINTELS BY OTHERS. SEE D3/S208 & S403 FOR SUGGESTED FRAMING.
4. REFERENCE DETAIL A3/S208 FOR TYPICAL LINTEL SCHEDULE.
5. FOR CONTINUOUS BOND BEAM AT EXTERIOR AND INTERIOR LOAD BEARING WALLS REFERENCE DETAIL D1/S208.
6. L7 DENOTES STEEL LINTEL WITH BRICK VENEER, SEE DETAIL A1/S208.
7. L8 DENOTES STEEL LINTEL, SEE DETAIL A2/S208.
8. L9 DENOTES STEEL LINTEL IN EXISTING CMU WITH BRICK VENEER, SEE DETAIL A3/S209.
9. L10 DENOTES STEEL LINTEL IN EXISTING CMU, SEE DETAIL A4/S209.
10. L#* DENOTES USE CMU TO MATCH 3 HR. RATED FIREWALL CONSTRUCTION.

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'
GRAPHIC SCALE

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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

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PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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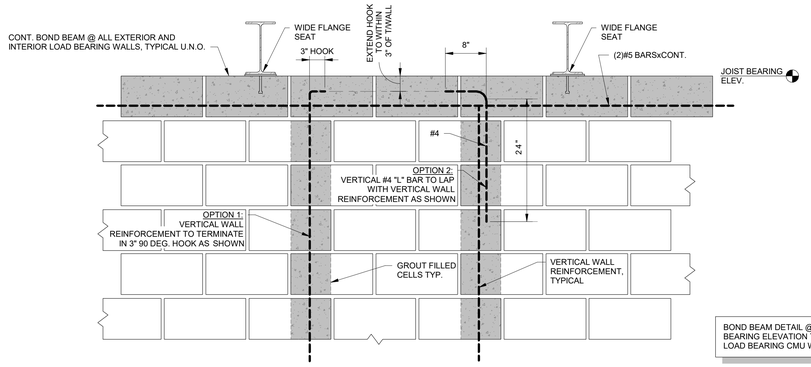
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

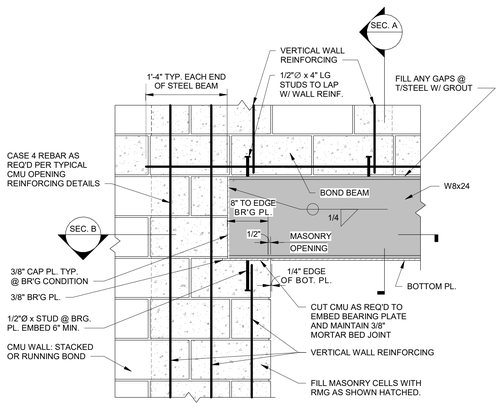
SHEET TITLE:
1200 LEVEL LINTEL PLAN - AREA 'C'

SHEET NO. S207
PROJ. NO. 20242



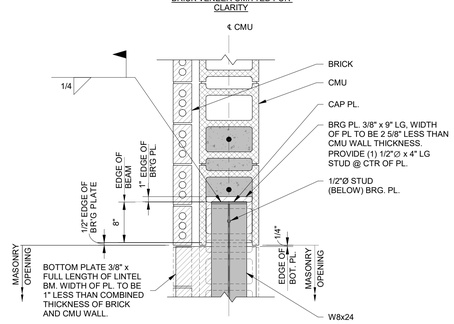
BOND BEAM DETAIL @ TRUSS BEARING ELEVATION TYPICAL ALL LOAD BEARING CMU WALLS.

D1 S208 **BOND BEAM DETAIL W/ BEARING SEATS**
1" = 1'-0"

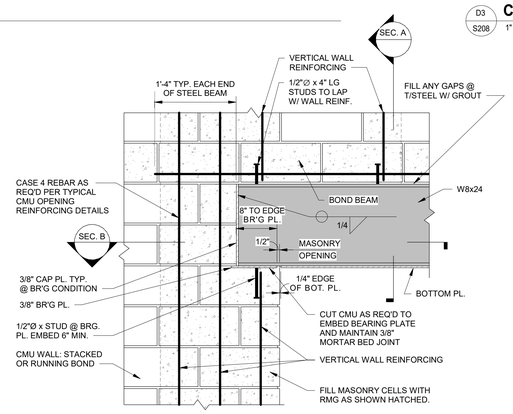


ELEVATION

BRICK VENEER OMITTED FOR CLARITY

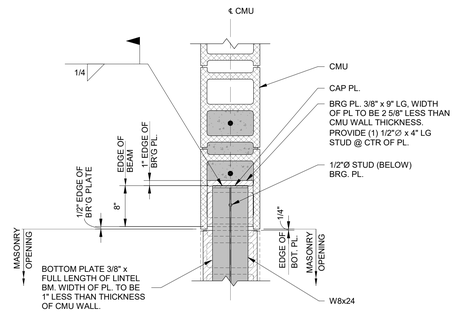


SECTION B

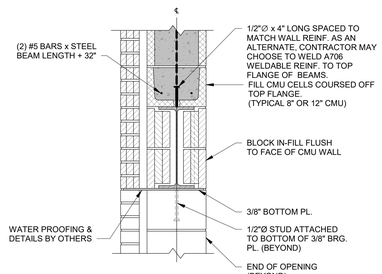


ELEVATION

BLOCK IN-FILL ADJACENT TO WF BEAM OMITTED FOR CLARITY



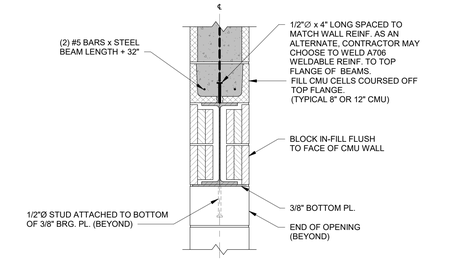
SECTION B



SECTION A

NOTES:
1. PROVIDE A STANDARD CONNECTION FOR ANY STEEL LINTEL THAT INTERFERES PERPENDICULAR WITH ANOTHER STEEL LINTEL.

2. DO NOT LOCATE A WALL CONTROL JOINT WITHIN 2 FEET OF BEAM BEARING.



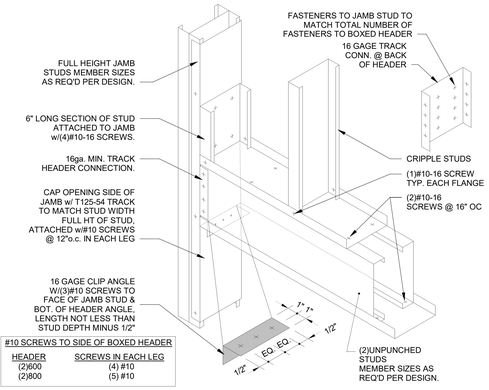
SECTION A

NOTES:
1. PROVIDE A STANDARD CONNECTION FOR ANY STEEL LINTEL THAT INTERFERES PERPENDICULAR WITH ANOTHER STEEL LINTEL.

2. DO NOT LOCATE A WALL CONTROL JOINT WITHIN 2 FEET OF BEAM BEARING.

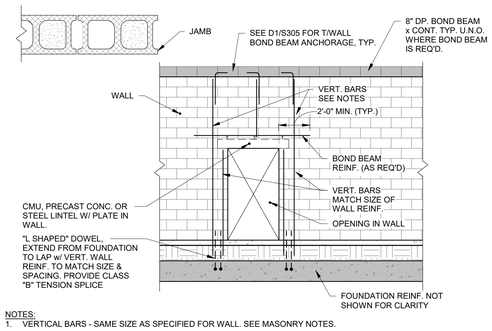
A1 S208 **L7 STEEL LINTEL BEARING DETAIL @ CMU (WITH BRICK VENEER)**
1" = 1'-0"

A2 S208 **L8 STEEL LINTEL BEARING DETAIL @ CMU (NO BRICK VENEER)**
1" = 1'-0"



#10 SCREWS TO SIDE OF BOXED HEADER	
HEADER	SCREWS IN EACH LEG
(2)600	(4) #10
(2)800	(5) #10

D3 S208 **CFS- BOXED HEADER DETAIL (SUGGESTED)**
1" = 1'-0"



NOTES:
1. VERTICAL BARS - SAME SIZE AS SPECIFIED FOR WALL. SEE MASONRY NOTES.

C3 S208 **TYP. DOOR & WINDOW OPENING REINFORCING DETAILS**
1" = 1'-0"

LINTEL SCHEDULE

ALL CMU LINTELS SHALL:

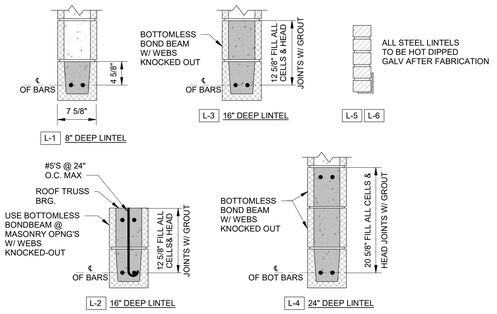
1. LINTEL BLOCK SHALL HAVE A MIN OF 2000 PSI COMPRESSIVE STRENGTH.
2. LINTEL BLOCK AND REBAR SHALL EXTEND A MIN. OF 24" PAST THE EDGE OF THE MASONRY OPENING, SEE C3/S208.
3. BLOCK FILL SHALL BE GROUT WITH A MIN. STRENGTH OF 2500 PSI. MORTAR MIX WILL NOT BE ACCEPTABLE.
4. ALL LINTELS MARKED W/ PREFIX AND/OR SUFFIX "F" SHALL HAVE ITS STEEL FIRE PROTECTED.
5. ALL MASONRY OPENINGS SHOWN ON ARCH, STRUCT, MECH AND ELEC. DRAWINGS SHALL HAVE LINTELS. THE G.C. SHALL FURNISH A LINTEL FOR:

A. LOAD BEARING WALLS - THE G.C. SHALL SELECT A LINTEL SHOWN IN THIS SCHEDULE THAT MOSTLY SIMULATES THE LOADING CONDITION OF THE UNSHOWN LINTEL. THE LOADING CONDITION SHALL BE AT LEAST THE SAME MAGNITUDE OR GREATER THAN THAT OF THE MISSING LINTEL.

B. NON-LOAD BEARING WALLS - THE G.C. SHALL SELECT A LINTEL SHOWN IN THIS SCHEDULE OR THE MISCELLANEOUS LINTEL SCHEDULE SHOWN ON THIS DRAWING.

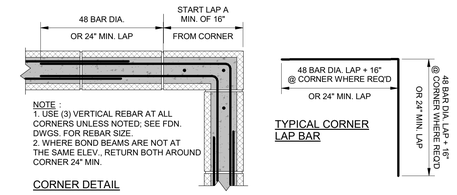
6. ALL EXTERIOR LINTELS W/ STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, THEN TREATED, PRIMED AND GIVEN A FINISH COAT OF PAINT AS REQ'D IN DIV. 9.

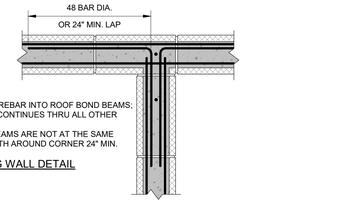
LINTEL NUMBER	SHAPE	STEEL REQUIREMENTS	REMARKS
L-1	SEE SHAPE DESIGNATION BELOW	(2) #5	USE @ NON-BRG WALLS AS SHOWN ON THE FDN DWGS
L-2	SEE SHAPE DESIGNATION BELOW	(2) #5 TOP & BOT	USE @ BOTH LOW ENDS OF THE STRUCTURE
L-3	SEE SHAPE DESIGNATION BELOW	(2) #5	USE @ WALLS AS SHOWN
L-4	SEE SHAPE DESIGNATION BELOW	(2) #5 TOP & BOT	USE @ WALLS AS SHOWN
L-5	SEE SHAPE DESIGNATION BELOW	L3x3x3/8" (LLV)	MIN. 8" BEARING EACH END, UNLESS NOTED
L-6	SEE SHAPE DESIGNATION BELOW	L5x3x3/8" (LLV)	MIN. 8" BEARING EACH END, UNLESS NOTED

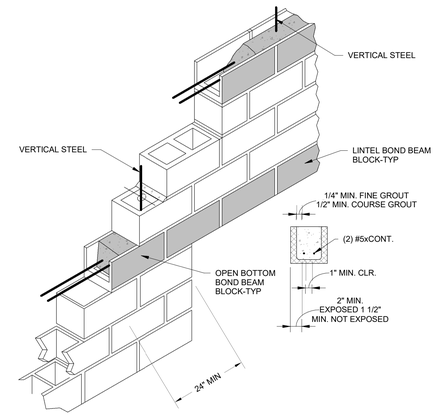


A3 S208 **LINTEL SCHEDULE**
1" = 1'-0"

D4 S208 **TYP. REINF. AT BEARING & SHEAR WALL BOND BEAMS**
1" = 1'-0"





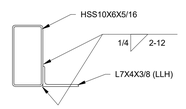


C4 S208 **MASONRY LINTEL DETAIL**
1" = 1'-0"

STEEL LOOSE ANGLE BRICK LINTEL - MAX. HT. (FT.) ALLOWED FOR SINGLE BRICK WYTHE (3-5/8" BRICK @ 36 psf (WALL SURFACE))

		CLEAR SPAN FOR OPENING								
*ANGLE SIZE	WEIGHT	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
L3X3X1/4	5.0	25.5	13.7	7.0	4.0	2.4	1.6	1.1			
L3X3X5/16	6.0		16.7	8.5	4.8	3.0	1.9	1.3			
L3X3X3/8	7.0		19.5	9.9	5.6	3.5	2.3	1.5	1.1		
L3.5X3.5X1/4	5.8			11.4	6.5	4.0	2.6	1.8	1.3		
L3.5X3.5X5/16	7.2			13.8	7.9	4.9	3.2	2.2	1.6	1.1	
L3.5X3.5X3/8	8.5			16.2	9.3	5.8	3.8	2.6	1.8	1.3	
L4X3X1/4	6.0			15.7	9.0	5.6	3.7	2.6	1.8	1.3	
L4X3X5/16	7.0				11.0	6.9	4.5	3.1	2.2	1.6	
L4X3X3/8	8.0				12.9	8.0	5.3	3.7	2.6	1.9	
L4X3.5X1/4	6.2				9.5	5.9	3.9	2.7	1.9	1.4	1.0
L4X3.5X5/16	7.7				11.6	7.2	4.8	3.3	2.3	1.7	1.3
L4X3.5X3/8	9.1				13.6	8.5	5.6	3.9	2.7	2.0	1.5
L5X3X1/4	7.0				16.7	10.5	7.0	4.8	3.5	2.6	1.9
L5X3X5/16	8.0					12.8	8.5	5.9	4.3	3.1	2.4
L5X3X3/8	10.0					15.1	10.0	7.0	5.0	3.7	2.8
L5X3X3.5X1/4	7.0					11.1	7.3	5.1	3.7	2.7	2.0
L5X3.5X5/16	8.7					13.5	9.0	6.2	4.5	3.3	2.5
L5X3.5X3/8	10.4					16.0	10.6	7.4	5.3	3.9	2.9
L6X4X5/16	10.0						15.7	10.9	7.9	5.9	4.4
L6X4X3/8	12.0						18.5	12.9	9.3	6.9	5.3

* ANGLE ORIENTATION IS LONG LEG VERTICAL (LLV).



NOTE:
L7X4X3/8" (LLH) IS MAX. SIZE ANGLE. G.C. TO USE ANGLE LENGTH THAT WILL STOP 1/2" FROM OUTSIDE FACE OF BRICK VENEER. POSTS REQUIRED FOR HSS LINTELS.

A4 S208 **BRICK LINTEL SECTION**
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

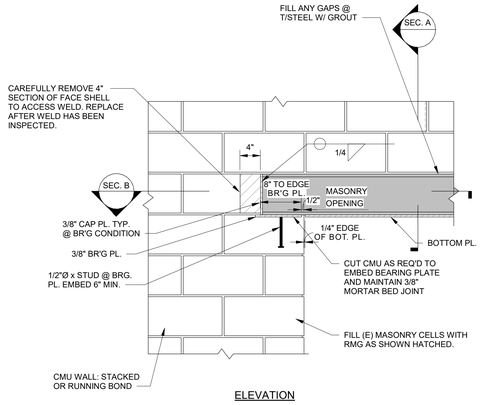
NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

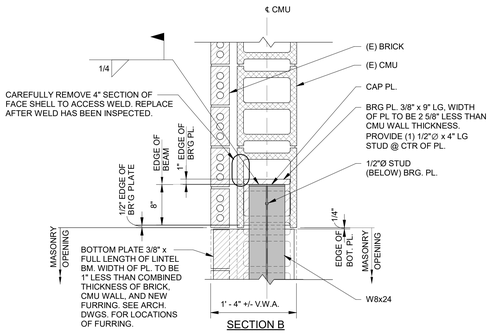
SHEET TITLE:
LINTEL SECTIONS & DETAILS

SHEET NO. S208
PROJ. NO. 20242

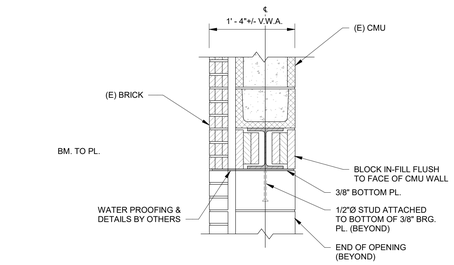


ELEVATION

(E) BRICK VENEER AND NEW FURRING OMITTED FOR CLARITY



SECTION B



SECTION A

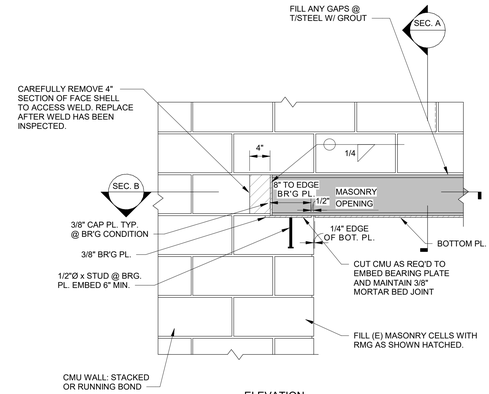
NOTES:
1. PROVIDE A STANDARD CONNECTION FOR ANY STEEL LINTEL THAT INTERFERES PERPENDICULAR WITH ANOTHER STEEL LINTEL.

2. DO NOT LOCATE A WALL CONTROL JOINT WITHIN 2 FEET OF BEAM BEARING.

3. ADJUST BOTTOM PLATE WIDTH AS NECESSARY WHERE 4" CMU FURRING IS NOT INDICATED ON ARCH. DWGS.

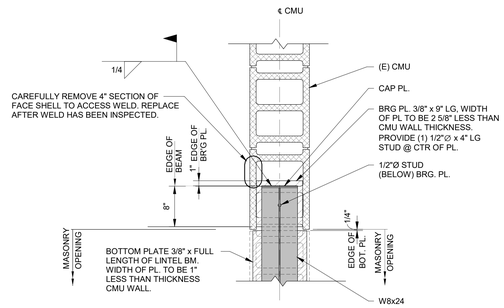
A3 / S209 **L9 - NEW STL. LINTEL BEARING DET. @ NEW OPNG. IN (E) CMU W/ BRICK VENEER**

1" = 1'-0"

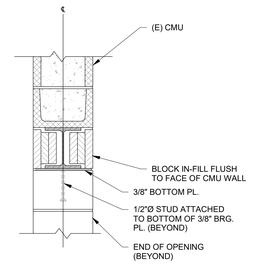


ELEVATION

(E) BRICK VENEER AND NEW FURRING OMITTED FOR CLARITY



SECTION B



SECTION A

NOTES:
1. PROVIDE A STANDARD CONNECTION FOR ANY STEEL LINTEL THAT INTERFERES PERPENDICULAR WITH ANOTHER STEEL LINTEL.

2. DO NOT LOCATE A WALL CONTROL JOINT WITHIN 2 FEET OF BEAM BEARING.

A4 / S209 **L10 - NEW STL. LINTEL BEARING DET. @ NEW OPNG. IN (E) CMU (NO BRICK VENEER)**

1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

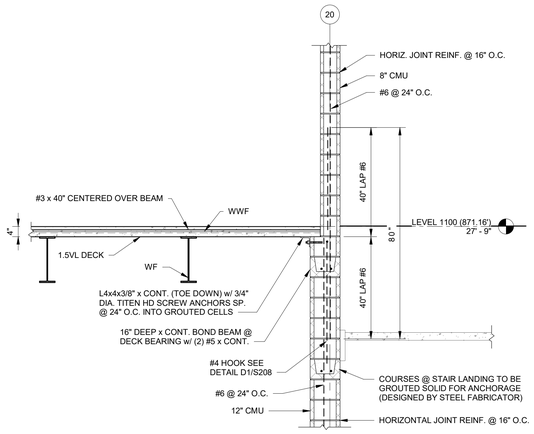
PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:

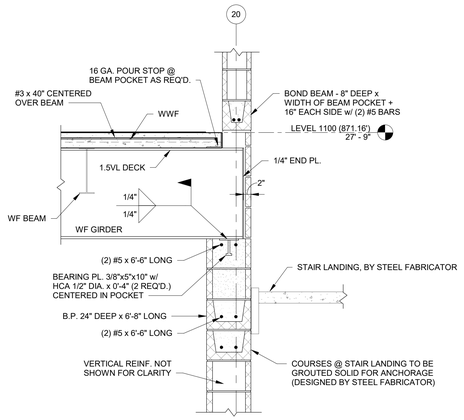
LINTEL SECTIONS & DETAILS

SHEET NO. S209

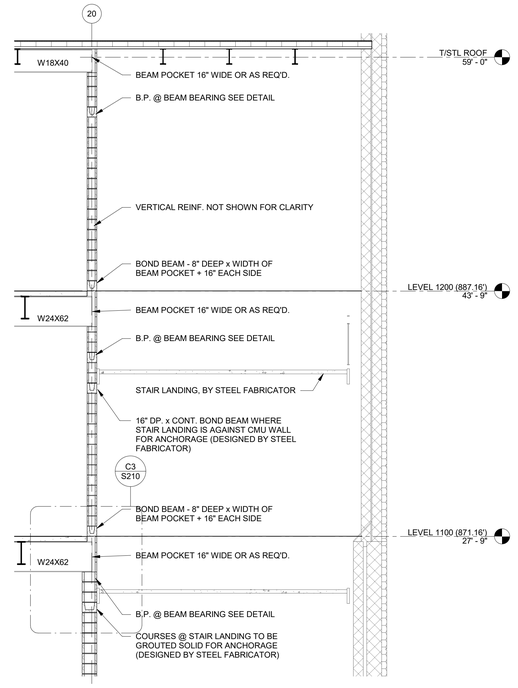
PROJ. NO. 20242



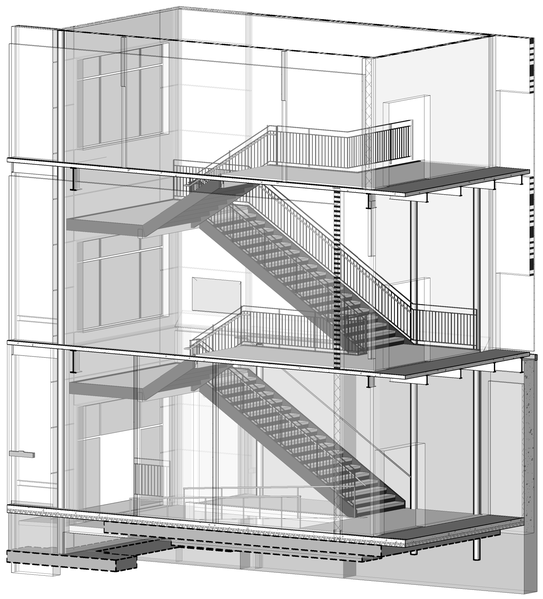
C1 S210 **DETAIL @ DECK BEARING**
1/2" = 1'-0"



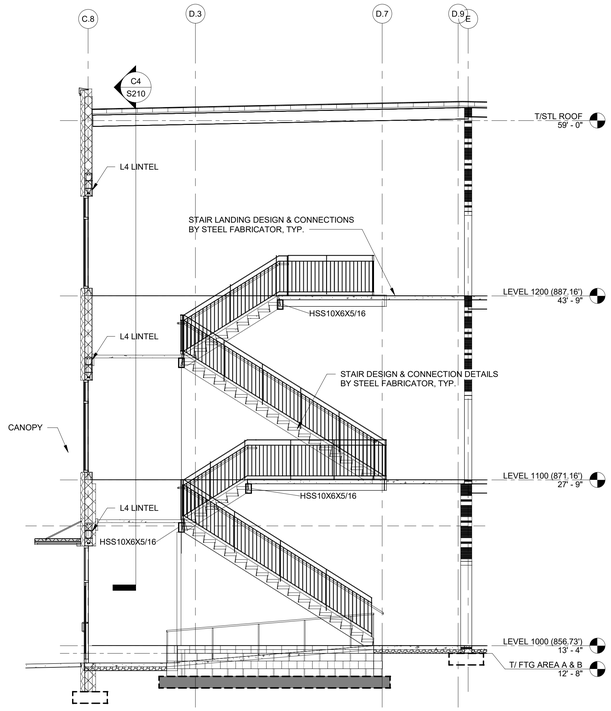
C3 S210 **DETAIL @ GIRDER BEARING**
3/4" = 1'-0"



C4 S210 **SECTION @ STAIR - LOOKING NORTH**
1/4" = 1'-0"



A1 S210 **3D VIEW OF STAIRS @ AREA B FIREWALL**



A4 S210 **SECTION THROUGH STAIRS @ AREA B FIREWALL**
3/16" = 1'-0"

A5 S210 **SECTION THROUGH STAIRS @ AREA A**
3/16" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

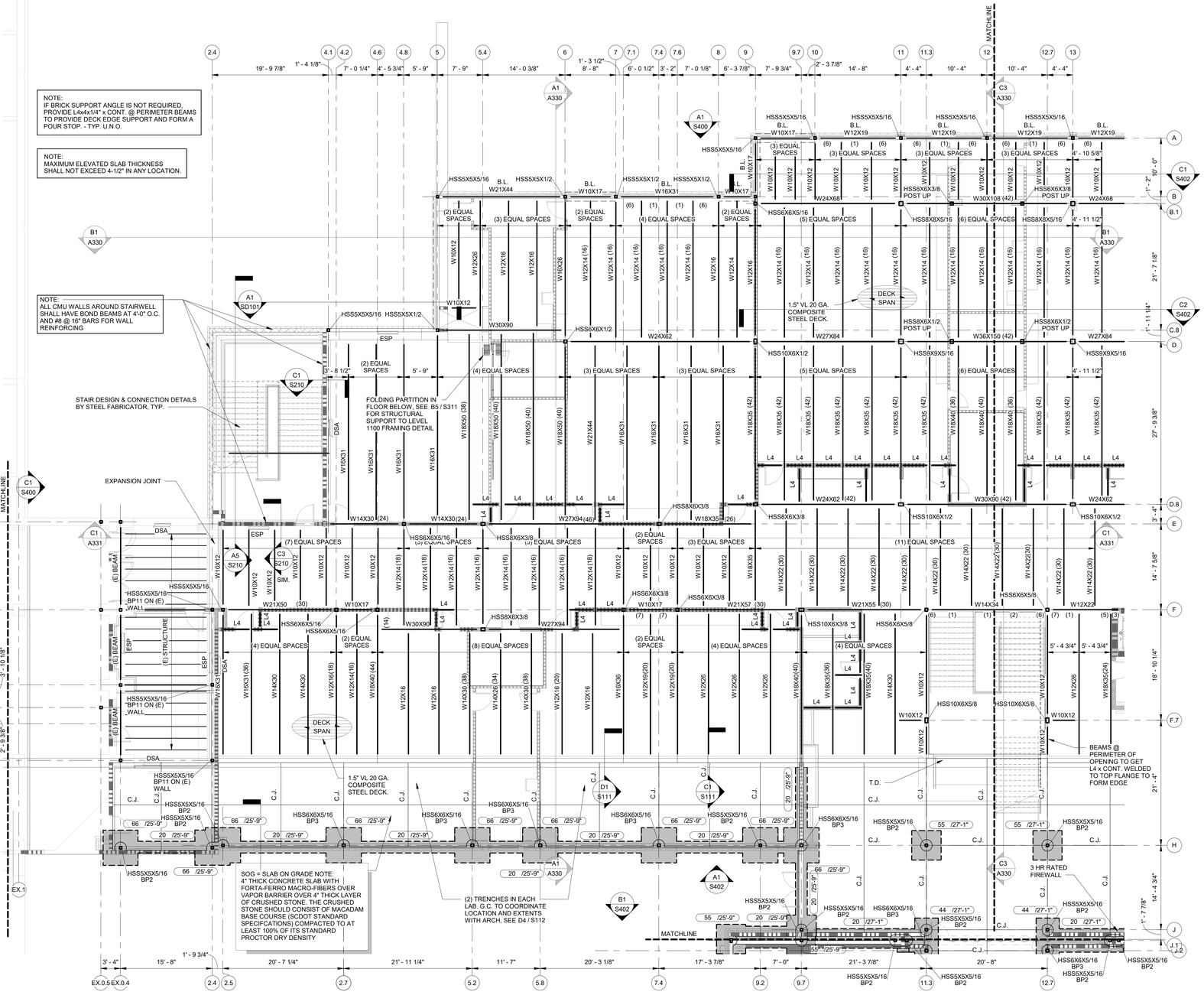
SHEET TITLE:
STAIR ELEVATIONS & SECTIONS

SHEET NO. S210
PROJ. NO. 20242

NOTE:
IF BRICK SUPPORT ANGLE IS NOT REQUIRED, PROVIDE L4x4x1/4" x CONT. @ PERIMETER BEAMS TO PROVIDE DECK EDGE SUPPORT AND FORM A POUR STOP. - TYP. U.N.O.

NOTE:
MAXIMUM ELEVATED SLAB THICKNESS SHALL NOT EXCEED 4-1/2" IN ANY LOCATION.

NOTE:
ALL CMU WALLS AROUND STAIRWELL SHALL HAVE BOND BEAMS AT 4'-0" O.C. AND #8 @ 16" BARS FOR WALL REINFORCING



A1 / S301A **1100 LEVEL FRAMING PLAN - AREA 'A' (F. FLR. ELEV. = 871.16' = +27'-9" T/STL. = +27'-5" TYP. U.N.O.)**
1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Ø x 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.

14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

DSA = CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL. OF DSA = DECK BEARING ELEV. SEE ARCH.

DSP = CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09

B.P. = INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-6" (TOP & BOTTOM REINF.) CENTERED UNDER ALL W/ BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE

= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

L4 & L3 = L4 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

B.E = BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.

VWA = VERIFY W/ ARCHITECTURAL.

ESP = BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.

ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310

PROJECT NORTH

GRAPHIC SCALE 0' 5' 10' 15' 20' 25' 30'

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ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

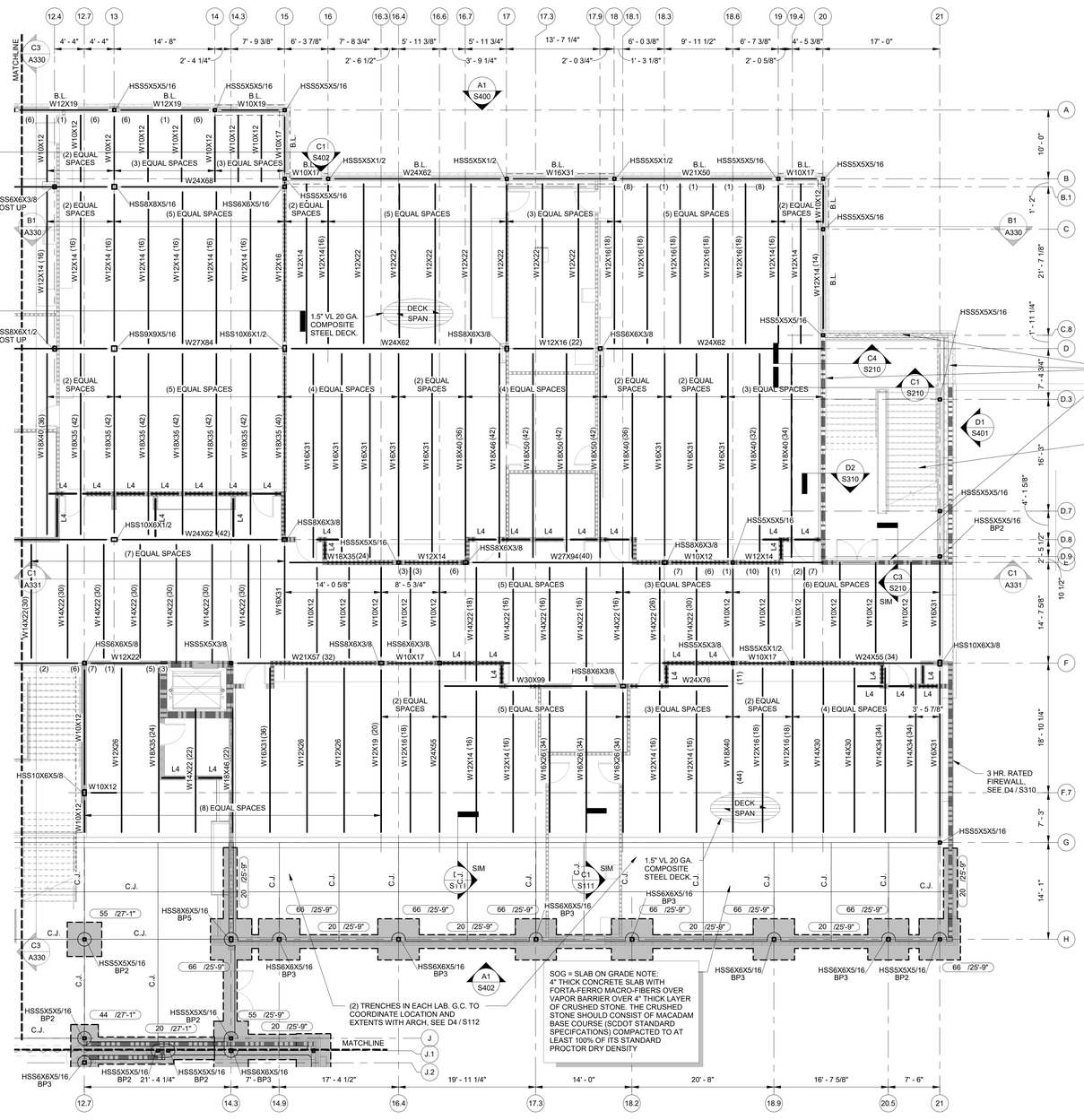
NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1100 LEVEL FRAMING PLAN - AREA 'A'

SHEET NO. S301A
PROJ. NO. 20242



NOTE:
IF BRICK SUPPORT ANGLE IS NOT REQUIRED, PROVIDE L4x4x1/4" x CONT. @ PERIMETER BEAMS TO PROVIDE DECK EDGE SUPPORT AND FORM A POUR STOP. - TYP. U.N.O.

NOTE:
MAXIMUM ELEVATED SLAB THICKNESS SHALL NOT EXCEED 4-1/2" IN ANY LOCATION.

NOTE:
ALL CMU WALLS AROUND STAIRWELL SHALL HAVE BOND BEAMS AT 4'-0" O.C. AND #8 @ 16" BARS FOR WALL REINFORCING

STAIR DESIGN & CONNECTION DETAILS BY STEEL FABRICATOR, TYP.

A1 / S301B — 1100 LEVEL FRAMING PLAN - AREA 'B' (F. FLR. ELEV. = 871.16' = +27'-9" T/STL. = +27'-5" TYP. U.N.O.)

1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Øx 4" LONG HEADED STUDS @ 6" C.C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.

14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

DSA = CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.

DSP = CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09

B.P. = INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL W/ BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE

= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

L4 & L3 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

B.E = BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.

VWA = VERIFY W/ ARCHITECTURAL.

ESP = BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.

ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

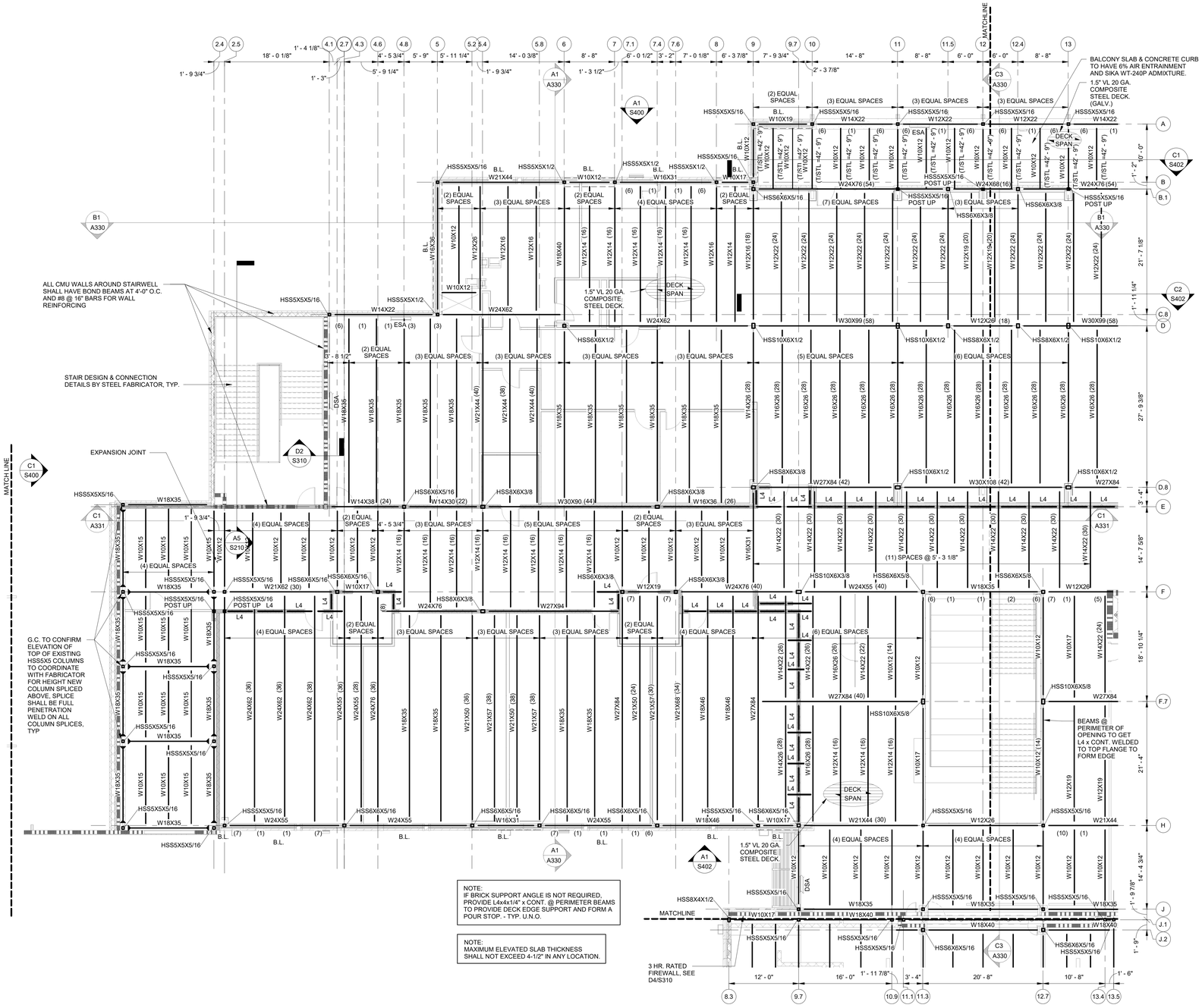
GMP SET 06/01/22

PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:
1100 LEVEL FRAMING PLAN - AREA 'B'

SHEET NO. S301B

PROJ. NO. 20242



A1 S302A **1200 LEVEL FRAMING PLAN - AREA 'A' (F. FLR. ELEV. = 887.16' = +43'-9" T/STL. - +43'-5" TYP. U.N.O.)**

1/8" = 1'-0"

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL, 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL, 3/8 x 10 x 10" WITH (4) 1/2"Ø'x 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.

14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

DSA = CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.

DSP = CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09

B.P. = INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-6" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE

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ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

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B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310

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SEALS

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

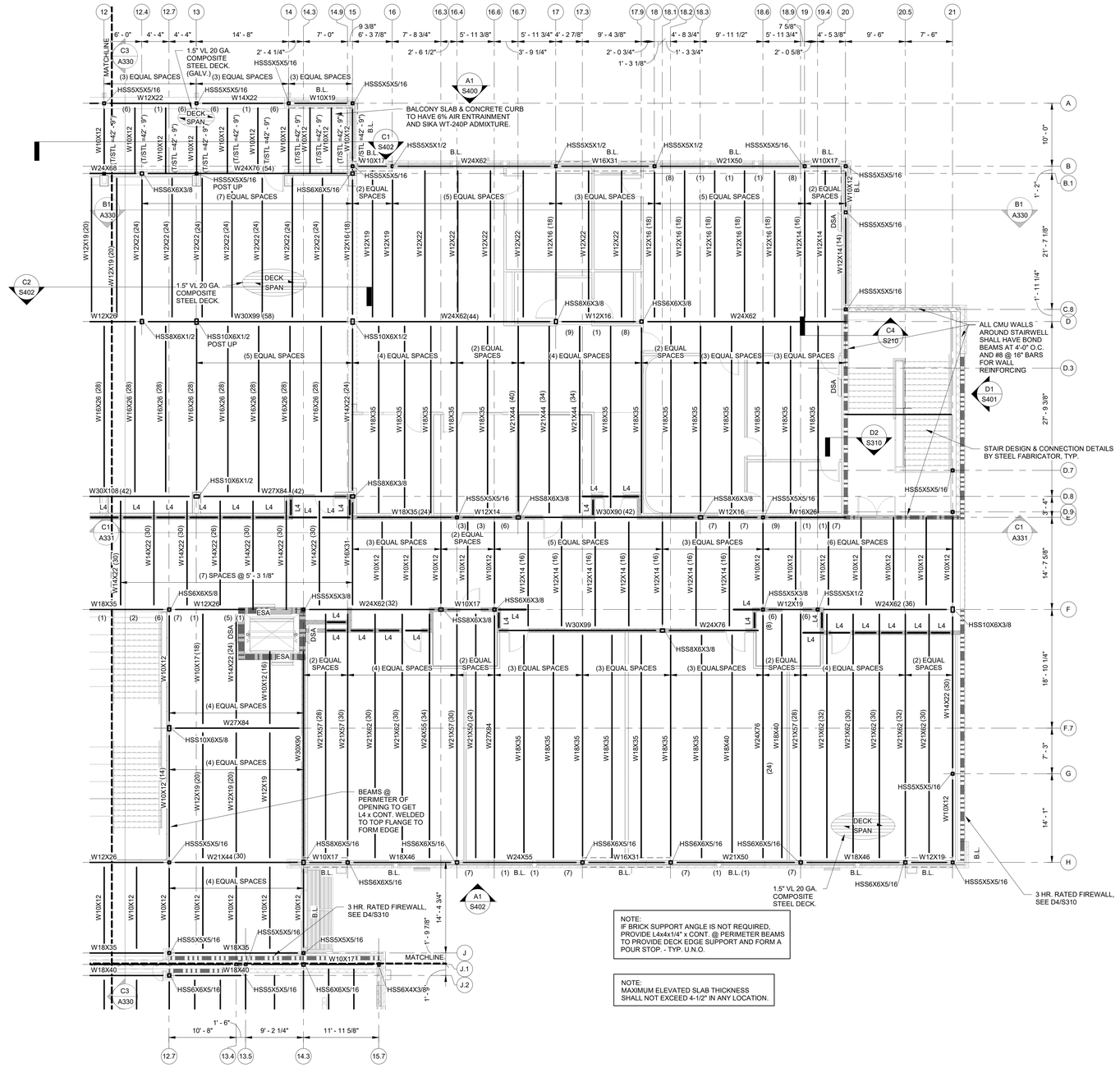
PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1200 LEVEL FRAMING PLAN - AREA 'A'

SHEET NO. S302A

PROJ. NO. 20242

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334



NOTE:
IF BRICK SUPPORT ANGLE IS NOT REQUIRED,
PROVIDE L4x4x1/4" x CONT. @ PERIMETER BEAMS
TO PROVIDE DECK EDGE SUPPORT AND FORM A
POUR STOP. - TYP. U.N.O.

NOTE:
MAXIMUM ELEVATED SLAB THICKNESS
SHALL NOT EXCEED 4-1/2" IN ANY LOCATION.

A1 / S302B **1200 LEVEL FRAMING PLAN - AREA 'B' (F. FLR. ELEV. = 887.16' = +43'9" T/STL. = +43'-5" TYP. U.N.O.)**

1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Øx 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.

14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

▮▯▯▯▯▮▮▯▯▯▯▮	= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.
DSA	= CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.
DSP	= CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09
B.P.	= INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE
◄—*—►	= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
L4 & L3	L4 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.
B.E	= BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.
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D.B.E.	= DECK BEARING ELEVATION.
B.L.	= BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311
F.P.	= FLAT PLATE DECK SUPPORT, SEE A2 / S310

PROJECT NORTH

GRAPHIC SCALE

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
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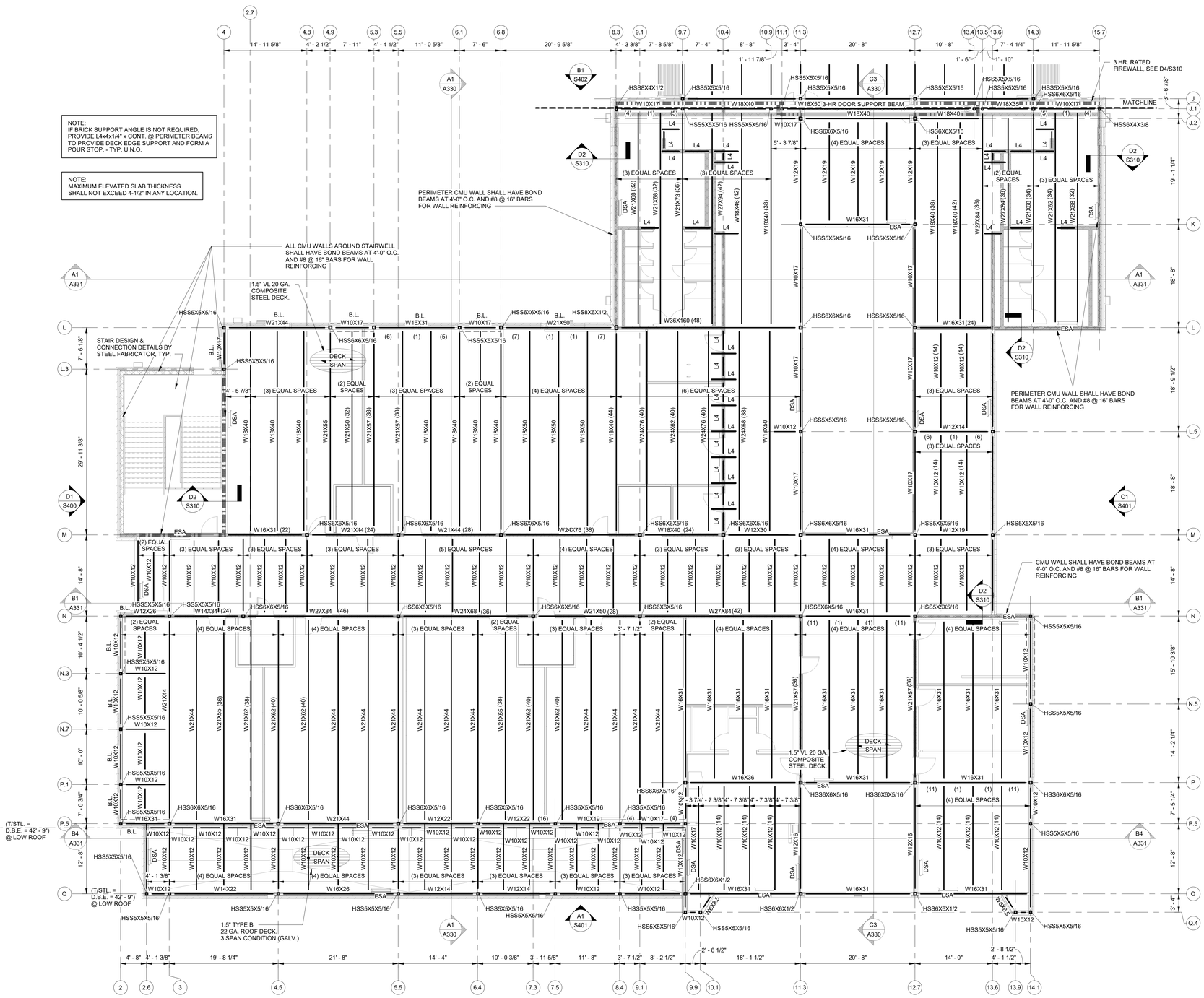
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1200 LEVEL
FRAMING PLAN -
AREA 'B'

SHEET NO.
S302B

PROJ. NO.
20242



A1 S302C **1200 LEVEL FRAMING PLAN - AREA 'C' (F. FLR. ELEV. = 887.16' = +43'-9" T/STL. = +43'-5" TYP. U.N.O.)**

1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).
2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001
3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310
5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.
6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.
7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

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9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.
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FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

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= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

L4 & L3 L4 = A L4x4x3/8 TOED DOWN (±13k) & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

B.E = BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.

VWA = VERIFY W/ ARCHITECTURAL.

ESP = BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.

ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

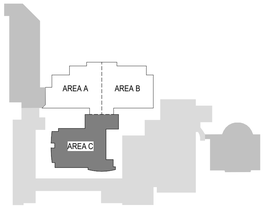
B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'

GRAPHIC SCALE



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

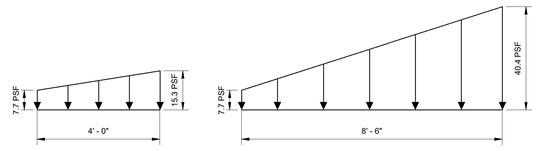
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
1200 LEVEL FRAMING PLAN - AREA 'C'

SHEET NO. S302C

PROJ. NO. 20242



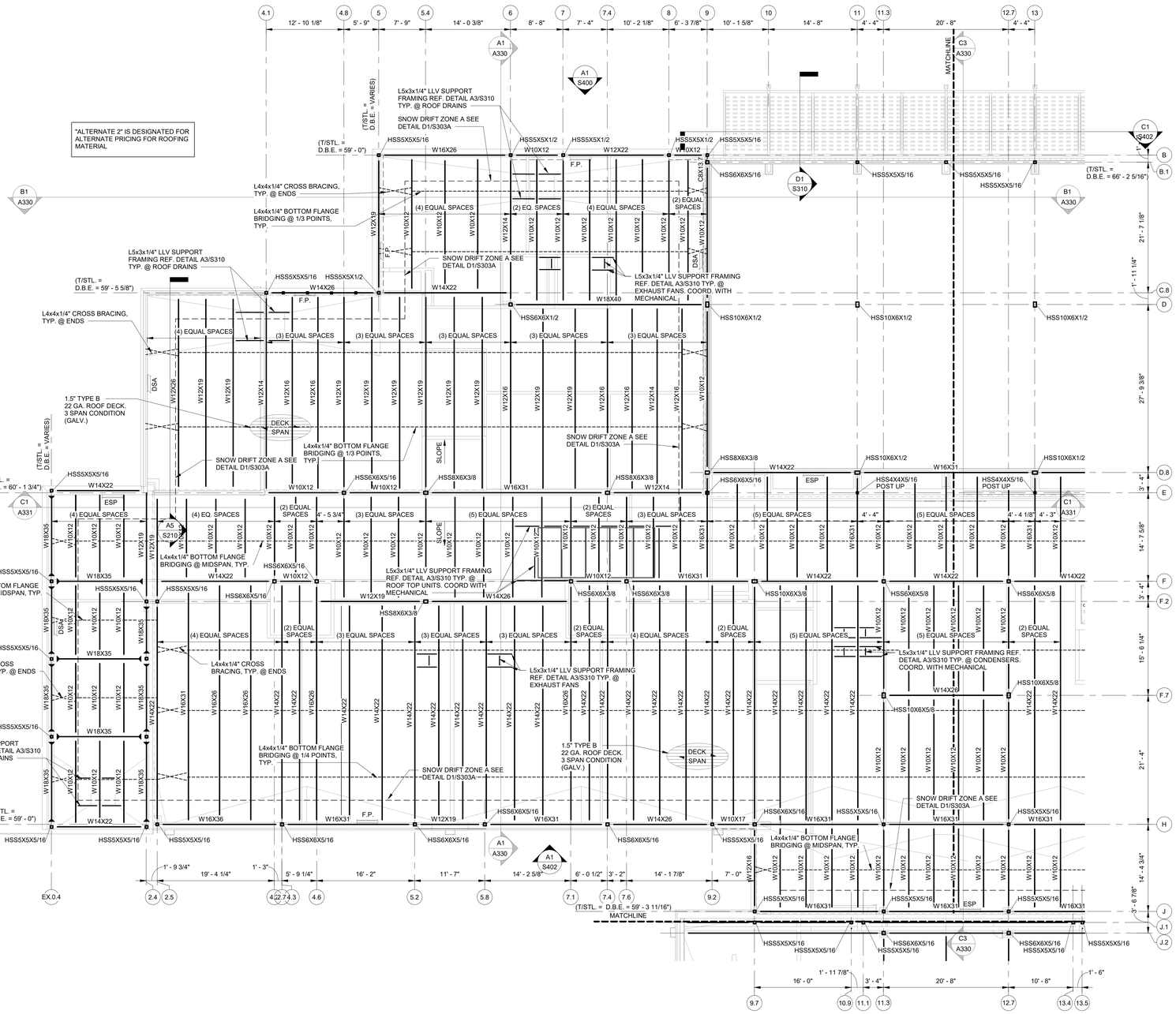
SNOW DRIFT ZONE A

SNOW DRIFT ZONE B

D1 SNOW DRIFT LOADING
D1 / S303A — 1/2" = 1'-0"

ROOFTOP EQUIPMENT WEIGHTS		
UNIT ID	WEIGHT, lbs	AUX. FRAMING REQ'D*
RTU - AREA A	11,870	YES
RTU - AREA B	6,840	YES
RTU - AREA C	11,600	YES
EXHAUST FAN	100	YES
DSS - CONDENSER	181	YES

* FOR AUX. FRAMING SEE DETAIL A3/S310



ROOF FRAMING - AREA A'
A1 / S303A — 1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).
2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001
3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS W/HOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310
5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.
6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.
7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Ø x 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.
9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.
10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.
11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.
12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.
13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.
14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.
16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.
17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

DSA = CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.

DSP = CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09

B.P. = INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)Ø5x6"-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #6 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE

= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

L4 & L3 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

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VWA = VERIFY W/ ARCHITECTURAL.

ESP = BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.

ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

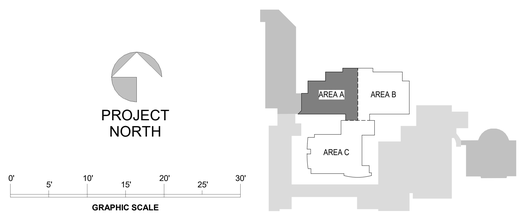
= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

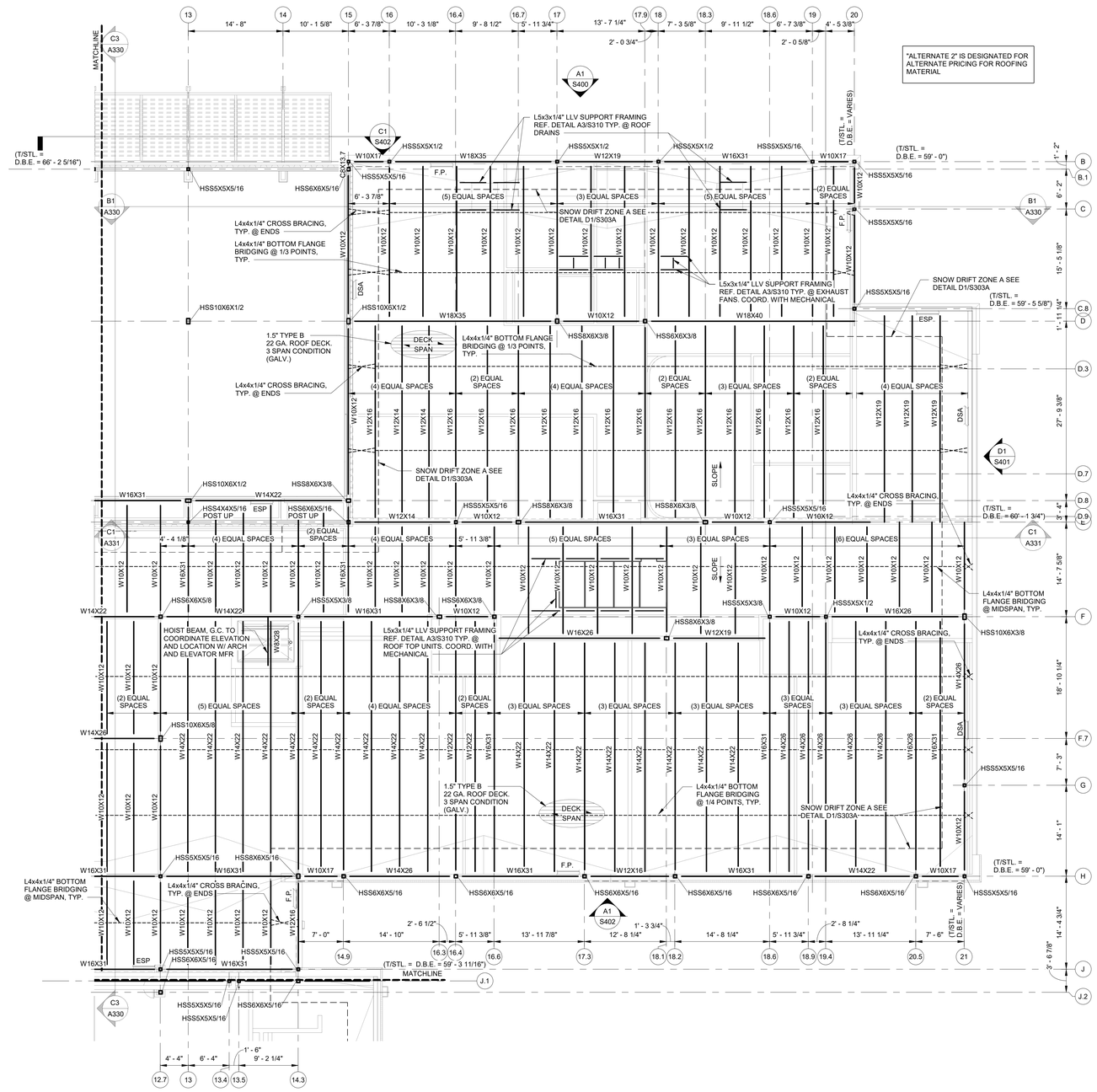
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
ROOF FRAMING PLAN - AREA 'A'

SHEET NO. S303A
PROJ. NO. 20242



*"ALTERNATE 2" IS DESIGNATED FOR ALTERNATE PRICING FOR ROOFING MATERIAL

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Ø x 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEY'S, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

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15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

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ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

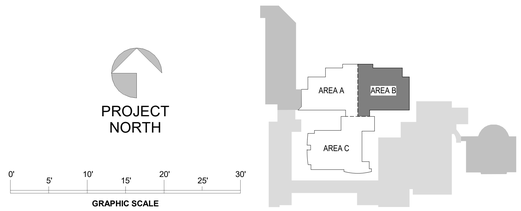
= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

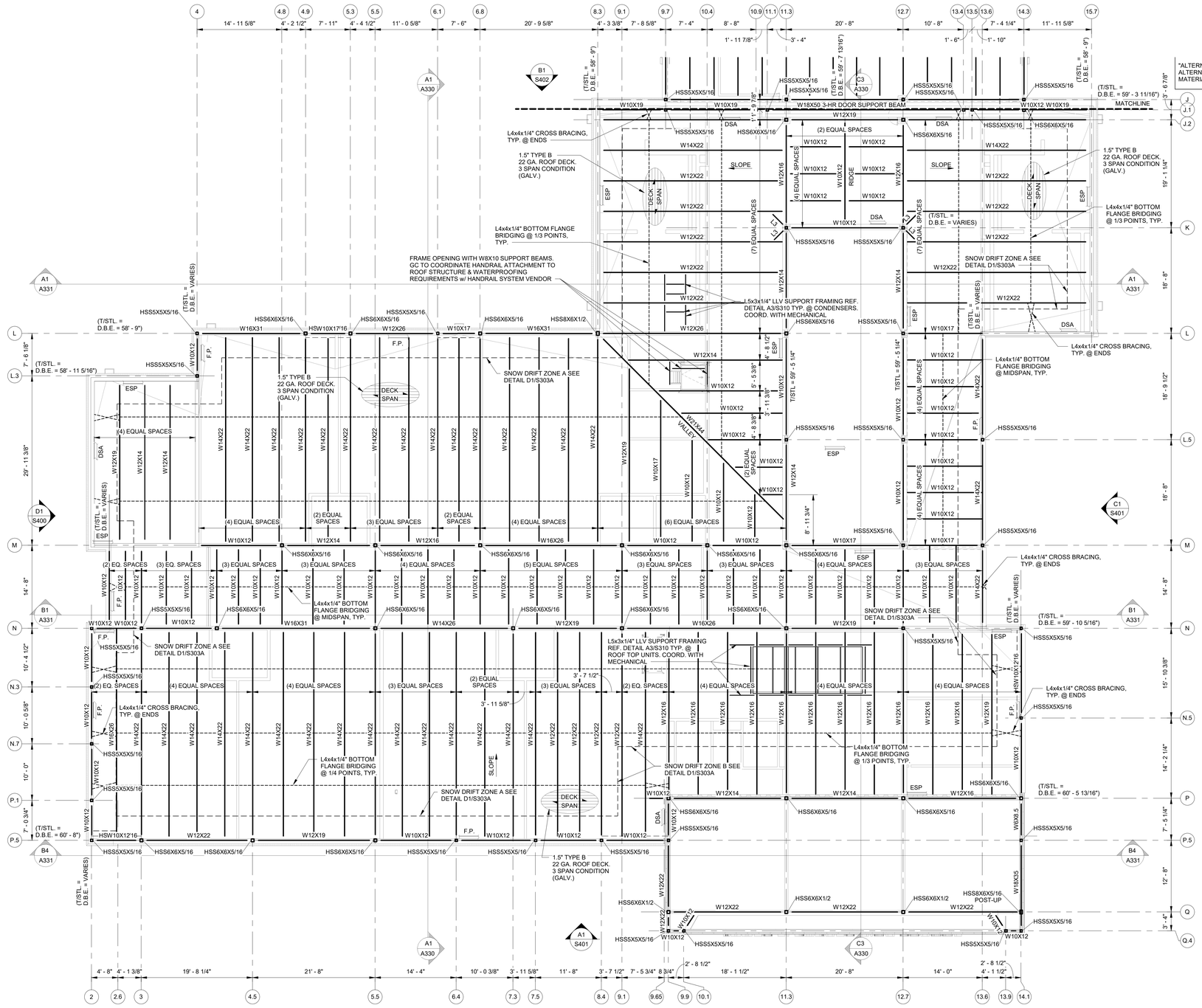
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
ROOF FRAMING PLAN - AREA 'B'

SHEET NO. PROJ. NO. 20242

S303B



A1 S303C **ROOF FRAMING - AREA C'**
1/8" = 1'-0"

PROJECT NORTH

0' 5' 10' 15' 20' 25' 30'
GRAPHIC SCALE

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

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9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

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FRAMING LEGEND:

= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.

DSA = CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.

DSP = CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/SS.09

B.P. = INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE

= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

L4 & L3 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

B.E = BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.

VWA = VERIFY W/ ARCHITECTURAL.

ESP = BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.

ESA = CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)

= X-BRACING

B.O.D. = BOTTOM OF DECK.

D.B.E. = DECK BEARING ELEVATION.

B.L. = BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311

F.P. = FLAT PLATE DECK SUPPORT, SEE A2 / S310

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

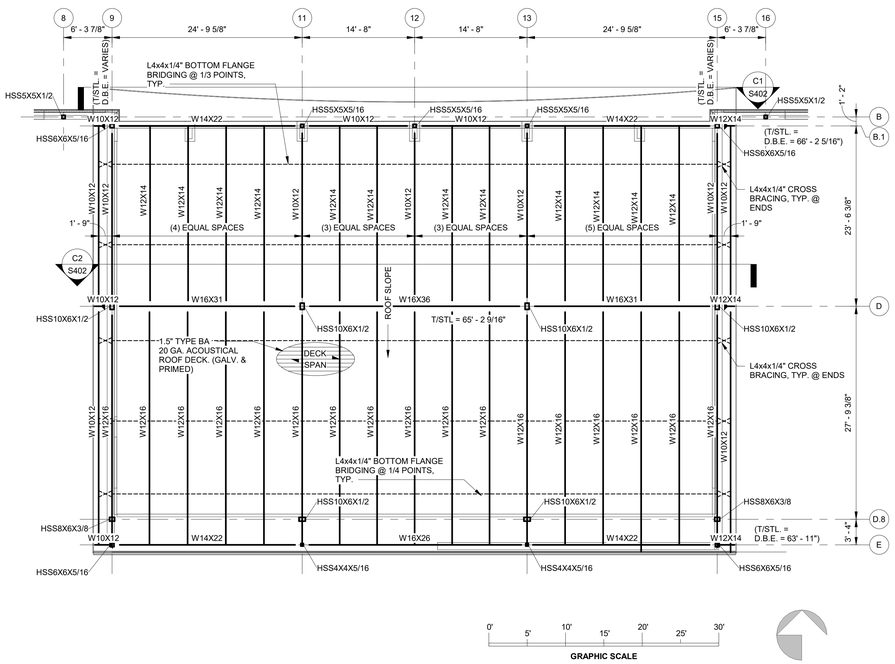
NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

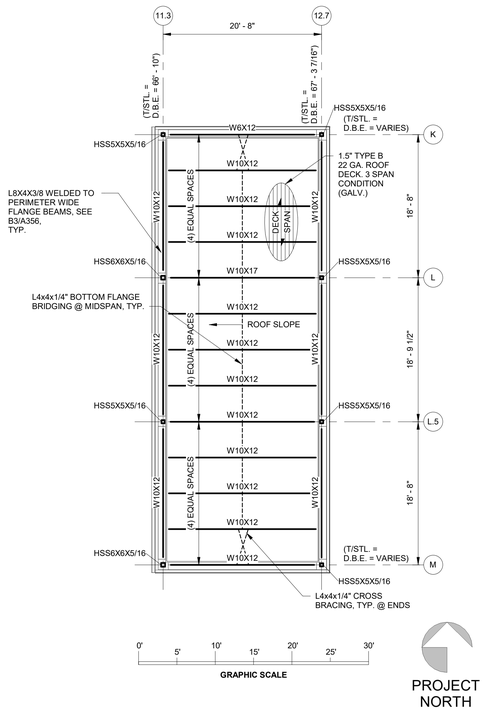
SHEET TITLE:
ROOF FRAMING PLAN - AREA 'C'

SHEET NO. S303C
PROJ. NO. 20242



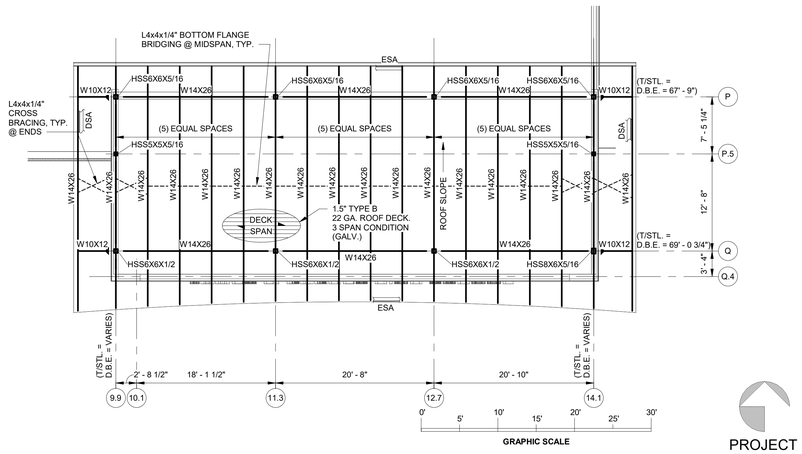
B1 S304 **HIGH ROOF ABOVE LIBRARY**

1/8" = 1'-0"



B2 S304 **HIGH ROOF AT CLERESTORY**

1/8" = 1'-0"



A1 S304 **HIGH ROOF AT ENTRY**

1/8" = 1'-0"

FRAMING NOTES:

1. SEE DRAWINGS S001, S002, S003 & S004 FOR PROJECT NOTES AND DESIGN CRITERIA (UNO).

2. BEAM CONNECTIONS SHALL BE DESIGNED PER NOTE 4 UNDER "STRUCTURAL STEEL NOTES" ON DWG. S001

3. CONTRACTOR SHALL VERIFY DIMENSIONS SHOWN ON THIS PLAN WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY FABRICATION OR CONSTRUCTION. FOR LOCATIONS, AND PLAN DIMENSIONS OF WALLS OTHERWISE NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.

4. PROVIDE WALL BRACING FOR ALL INTERIOR CMU WALLS WHOSE PLAN DIMENSIONS AND CONFIGURATION CREATE A CLEAR UNBRACED LENGTH GREATER THAN 10'-0" BETWEEN INTERSECTING WALLS. SEE DET A1 / S310

5. SEE SECTION & DETAILS SHEETS FOR STANDARD DETAILS, UNLESS NOTED OTHERWISE.

6. ROOF DECK SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB (TYPE B) GALV. W/G-90 COATING, UNLESS NOTED OTHERWISE. SEE B2 / S310 FOR FLOOR DECK DIRECTION CHANGES.

7. PROVIDE BEARING PL. 3/8 x 6 x 10" WITH (2) 1/2"Ø x 4" LONG HEADED STUDS @ 6" O.C. TYPICALLY WHERE JOISTS, BEAMS, OR TRUSSES FRAME INTO 8" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

PROVIDE BEARING PL. 3/8 x 10 x 10" WITH (4) 1/2"Ø x 4" LONG HEADED STUDS @ 6" C-C TYPICALLY WHERE JOISTS, BEAMS OR TRUSSES (SINGLE & DOUBLE) FRAME INTO 12" CMU WALLS. T/PL. EL. = JOIST BRG. EL. (JBE) AS NOTED ON FRAMING PLANS. WHERE JBE IS NOT NOTED, LOCATE T/ PL. TO AGREE WITH JOIST SEAT. SIMILARLY, LOCATE T/PL. TO AGREE WITH MEMBER DEPTH FOR BEAMS & GIRDERS.

8. GENERAL CONTRACTOR SHALL PROVIDE 16 GAGE BENT PLATES ABOVE & BELOW DECK AT RIDGES, VALLEYS, HIPS, AND EAVES AS NECESSARY TO PROVIDE CONTINUOUS SUPPORT FOR ENDS AND EDGES OF METAL DECK. PROVIDE RAKE ANGLE AT ALL GABLE END WALLS.

9. SEE DETAIL B4 / S310 FOR DECK FASTENING PATTERN.

10. MECH. ROOF-TOP UNITS - SEE HVAC DRWGS. PROVIDE ADD'L SUPPORT FRAMING AS NEEDED. GENERAL CONTRACTOR SHALL COORDINATE UNIT DIMENSIONAL SUPPORT INFORMATION WITH STEEL FABRICATOR.

11. FOR FIRE-RATED WALLS SEE ARCH. DWGS.

12. GENERAL CONTRACTOR TO SUPPLY DIMENSIONS FOR ALL ROOF OPENINGS NOT SIZED TO STEEL FABRICATOR UPON PURCHASE OF EQUIPMENT.

13. G.C. TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DIMENSIONS.

14. GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL SLAB/ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.

15. DISCHARGE CONCRETE AS REQUIRED TO LIMIT DEPTH OF CONCRETE IN ANY AREA TO 4.5 INCHES.

16. STAIR FRAMING INCLUDING LANDINGS, STRINGERS, AND JOISTS SUPPORTING STAIRS, SHALL BE BY STAIR MANUFACTURER.

17. COLUMN SPLICES SHALL BE FULL PENETRATION WELDS U.N.O.

FRAMING LEGEND:

	= 3 HR. FIREWALL SEE DETAILS AS INDICATED ON PLAN & ARCH. FOR ADD'L. INFO.
DSA	= CONT. DECK SUPPORT ANGLE = L4x4x3/8"xCONT. (TOE DOWN) PIECE AROUND JOISTS AS REQ'D. ATTACH W/ 3/4"Ø RODS SP. @ 24" O.C. AND EPOXY IN PLACE INTO GROUTED CELLS. T/STL OF DSA = DECK BEARING ELEV. SEE ARCH.
DSP	= CONT DECK SUPPORT PLATE. = 1/4" PLATE WELDED TO THE TOP OF WIDE FLANGE BEAM. T/STL OF DSP = T/STL SHOWN ON FRAMING PLANS. SEE B5/S5.09
B.P.	= INDICATES; PROVIDE BEARING PL. PER NOTE 7 UNDER "FRAMING NOTES" AND BEAR ON 8"x24" D.P. B.B. OR 12"x24" D.P. B.B. W/(4)#5x6'-8" (TOP & BOTTOM REINF.) CENTERED UNDER ALL WF BEAM BEARING POINTS. VERTICAL WALL REINF. REQUIRED #8 @ 16" O.C. EACH SIDE OF BEAM OR COLUMN BEARING POINT FOR THE 6'-8" DISTANCE
	= GC/CM TO COORDINATE FINAL FRAMING LAYOUT SPACING REQUIREMENTS W/ FINAL ROOF PENETRATIONS AS REQ'D BASED ON FINAL SELECTION OF MECHANICAL COMPONENTS.
L4 & L3	L4 = A L4x4x3/8 TOED DOWN (±13k). & A L3 = L3x3x3/8 TOED DOWN (±10k) ATTACHMENT SHALL BE TO UNDERSIDE OF BEAM BOT. CHORD HORIZONTAL ANGLE LEG & TO UNDERSIDE OF DEA HORIZONTAL LEG. AT CONT. PLATE LOCATIONS, PROVIDE A HORIZ. L3x3x1/4x1'-0" (TOED DOWN) ATTACHED TO CMU BOND BEAM W/ (2) 3/4"Ø HILTI HAS-E RODS ON A 9" GAGE INSTALLED WITH HILTI HIT HY150 ADHESIVE. (MIN. EMBED=6-5/8") INSTALL PER MFR'S WRITTEN INSTRUCTIONS.
B.E	= BEARING ELEVATION. IT IS THE G.C.'S RESPONSIBILITY TO DETERMINE WIDE FLANGE BEAM BEARING ELEVATIONS.
VWA	= VERIFY W/ ARCHITECTURAL.
ESP	= BENT PLATE 1/4"x4"x4"xCONT (TOE UP) FOR CONTINUOUS DECK EDGE SUPPORT BETWEEN ALL JOISTS, BEAMS, & BETWEEN ALL TRUSSES. ATTACH W/ 3/4" DIA. RODS SP. @ 24" O.C. AND EPOXY IN PLACE TO GROUTED CELLS WHEN FASTENED TO CMU WALLS. IF APPROVED BY ARCHITECT, ESA MAY BE USED INSTEAD OF ESP.
ESA	= CONTINUOUS DECK EDGE SUPPORT ANGLE BETWEEN ALL JOISTS AND BEAMS = L4X4X1/4 CONT. (TOE UP)
	= X-BRACING
B.O.D.	= BOTTOM OF DECK.
D.B.E.	= DECK BEARING ELEVATION.
B.L.	= BRICK LEDGE, SEE DETAIL B1 / S310 & C5 / S311
F.P.	= FLAT PLATE DECK SUPPORT, SEE A2 / S310

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

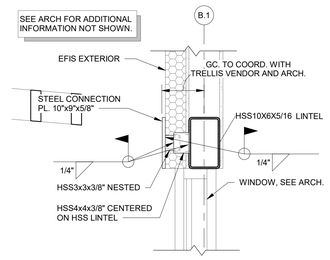
PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:

HIGH ROOF FRAMING PLANS

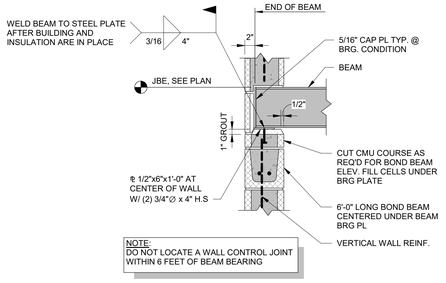
SHEET NO. S304

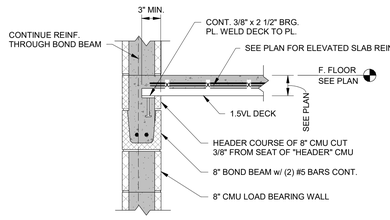
PROJ. NO. 20242



D1 S310 **TRELLIS ATTACHMENT DETAIL**

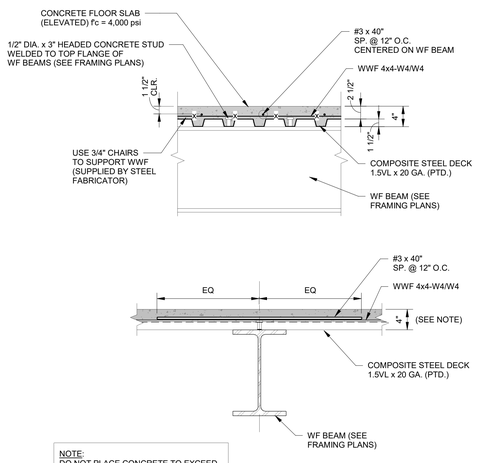
1" = 1'-0"

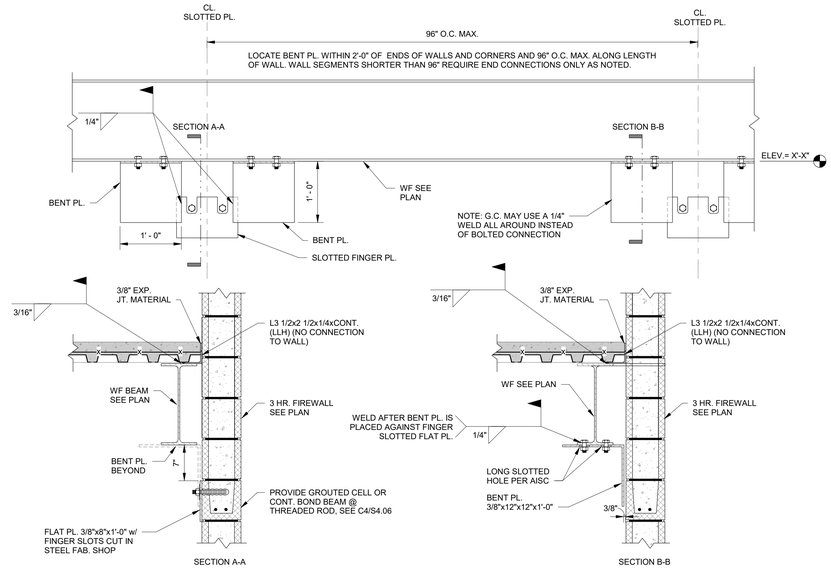




D2 S310 **CMU WALL SUPPORTING FLOOR DECK EDGE**

1" = 1'-0"



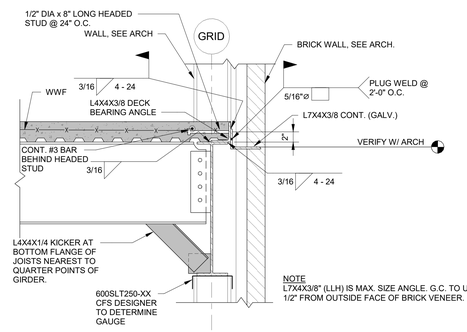


D4 S310 **WF BEAM @ 3HR. FIREWALL**

1" = 1'-0"

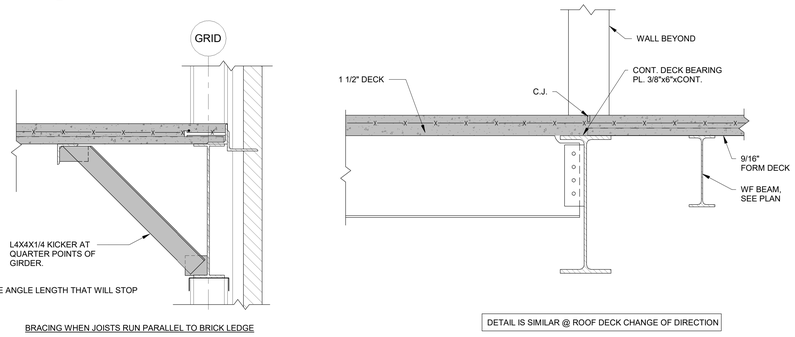
C1 S310 **TYP. BEAM BEARING POCKET @ CMU WALL**

1" = 1'-0"



C2 S310 **COMPOSITE FLOOR**

1" = 1'-0"

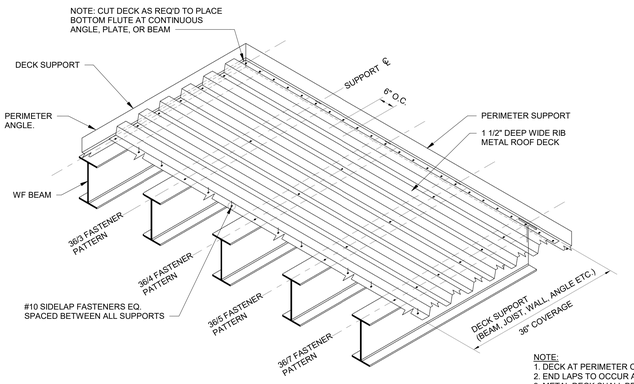


B1 S310 **BRICK LEDGE DETAIL PERPENDICULAR TO JOIST DIRECTION**

1" = 1'-0"

B2 S310 **DIRECTION CHANGE AT FLOOR FRAMING**

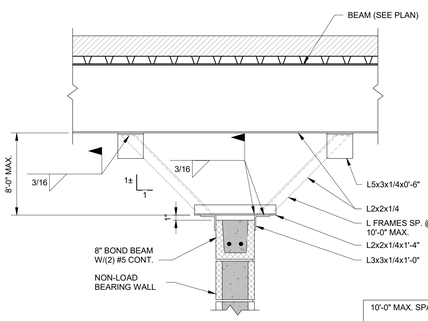
1" = 1'-0"



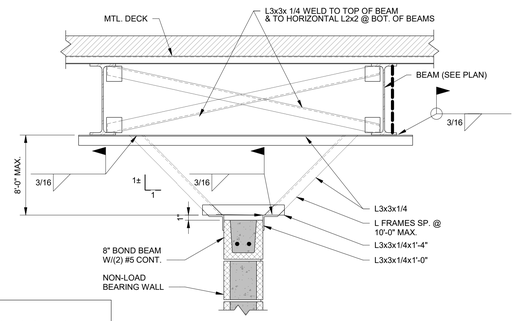
NOTE:
1. DECK AT PERIMETER OF BUILDING TO BE WELDED TO JOISTS OR ANGLES UNO.
2. END LAPS TO OCCUR AT SUPPORTS ONLY, MIN. LAP = 2".
3. METAL DECK SHALL BE CONTINUOUS OVER A MIN. OF 3 SPANS.
4. BUTT WELD ENDS OF PERIMETER ANGLE TOGETHER FOR CONTINUITY.

B4 S310 **1 1/2" ROOF DECK FASTENING ISOMETRIC DETAIL**

1" = 1'-0"



WALL PERPENDICULAR TO BEAM



WALL PARALLEL TO BEAMS

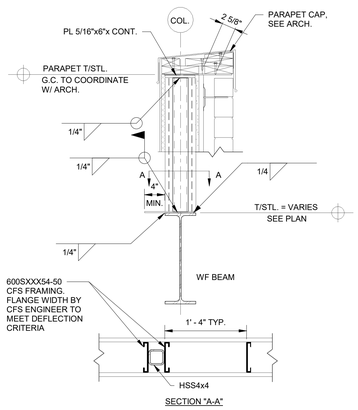
10'-0" MAX. SPACING.

PROVIDE WALL BRACING ALONG WALLS WITH A CLEAR LENGTH BETWEEN INTERSECTING WALLS GREATER THAN 10'-0".

PLACE (ONE) BRACE FRAME @ MID-SPAN FOR WALLS 20'-0" IN LENGTH OR LESS.

A1 S310 **TYPICAL CMU WALL BRACING DETAIL WHERE TOP OF WALL IS BELOW BOTTOM OF BEAM**

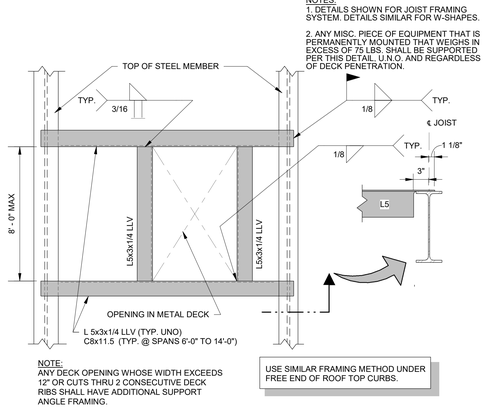
1" = 1'-0"



SECTION "A-A"

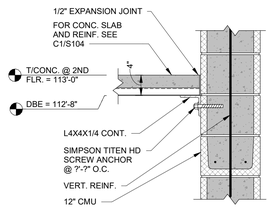
A2 S310 **PARAPET DETAIL**

1" = 1'-0"



A3 S310 **TYPICAL DECK OPENING - AUX. FRAMING**

1" = 1'-0"



A4 S310 **DECK EDGE SUPPORT DETAIL**

1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	2/28/22	DD PRICING	ATR
C	06/01/22	GMP SET	PGG

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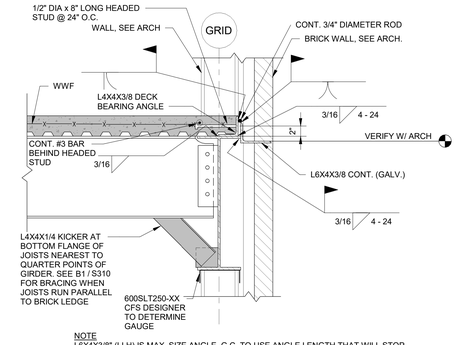
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FRAMING SECTIONS & DETAILS

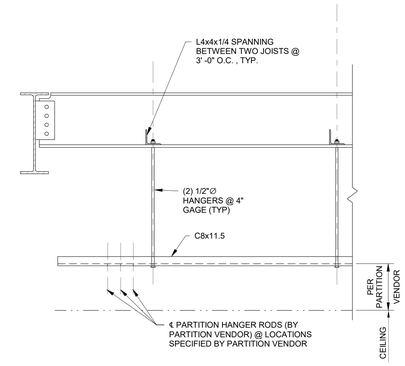
SHEET NO. S310

PROJ. NO. 20242

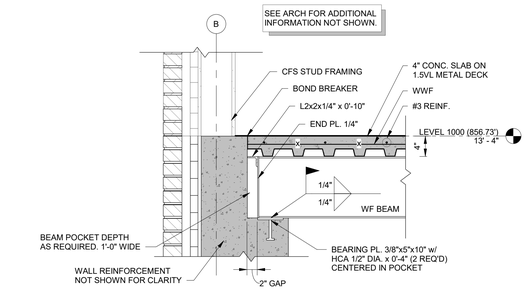


NOTE
L6X4X3/8" (LLH) IS MAX. SIZE ANGLE. G.C. TO USE ANGLE LENGTH THAT WILL STOP 1/2" FROM OUTSIDE FACE OF BRICK VENEER.

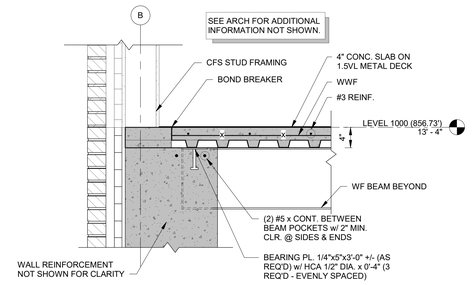
C5 / S311 **BRICK LEDGE DETAIL W/ GAP PERPENDICULAR TO JOIST DIRECTION**
1" = 1'-0"



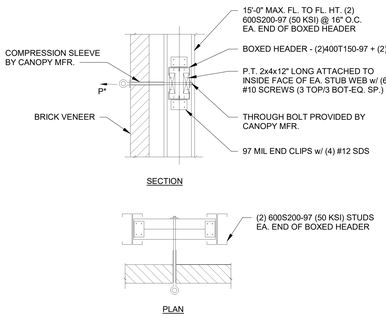
B5 / S311 **FOLDING PARTITION DETAIL PARALLEL TO JOIST**
1" = 1'-0"



B2 / S311 **DETAIL @ BEAM BEARING ON CONCRETE WALL (COL. LINE B)**
1" = 1'-0"



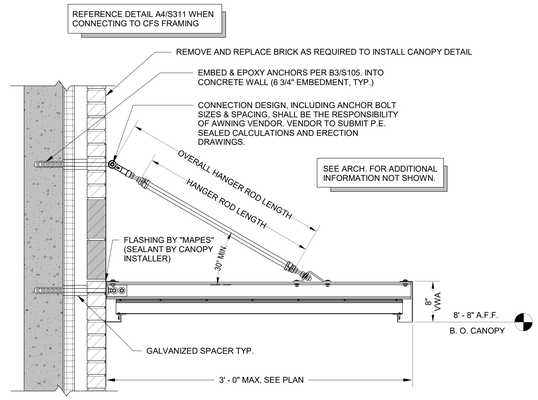
A2 / S311 **DETAIL @ SLAB BEARING BETWEEN BEAM POCKETS (COL. LINE B)**
1" = 1'-0"



CANOPY SUPPORT @ CFS FRAMING WALL

NOTES:
1. DESIGN NOT VALID FOR TENSION ROD FORCES GREATER THAN 1100 LBS.
2. DESIGN NOT VALID EXCEPT WHERE STUDS ARE FULL HEIGHT FROM F/FLOOR TO FLOOR OR ROOF FRAMING ABOVE.
3. G.C. TO SUBMIT P.E. SEALED DRAWINGS AND CALC'S FOR CANOPY SUPPORT CONDITIONS THAT DO NOT FALL WITHIN THE PARAMETERS GIVEN IN #1 AND #2 ABOVE OR IN THE BASIS OF DESIGN AS SHOWN.
4. SEE ARCH. FOR INFORMATION NOT OTHERWISE SHOWN.
5. DETAIL NOT APPLICABLE FOR SINGLE STORY CONSTRUCTION. CFS ENGINEER TO PROVIDE P.E. SEALED DESIGN AND DETAILS.

A4 / S311 **CANOPY SUPPORT @ CFS FRAMING WALL**
1" = 1'-0"



A5 / S311 **WALL HUNG CANOPY**
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

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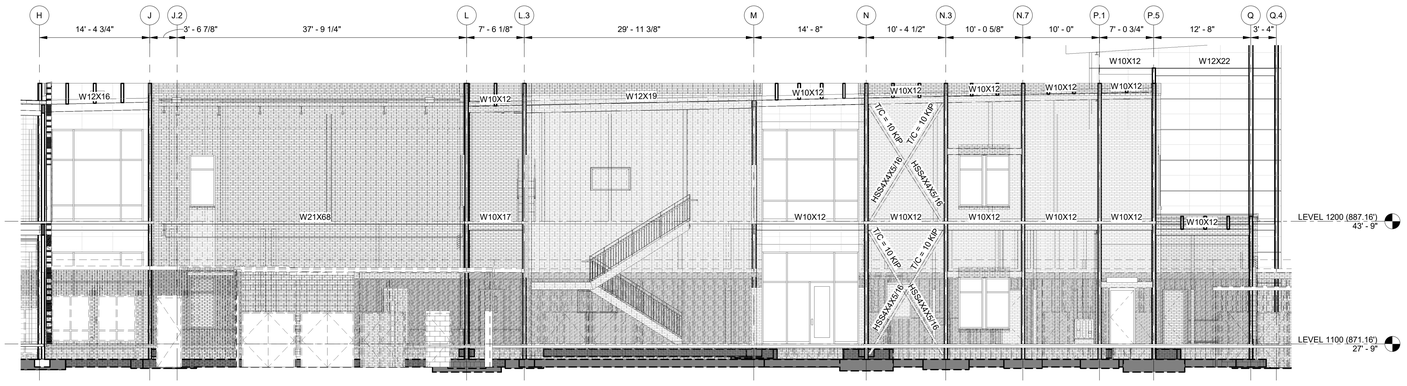
GMP SET 06/01/22

PRINCIPAL IN CHARGE:	PGG
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

SHEET TITLE:
FRAMING SECTIONS & DETAILS

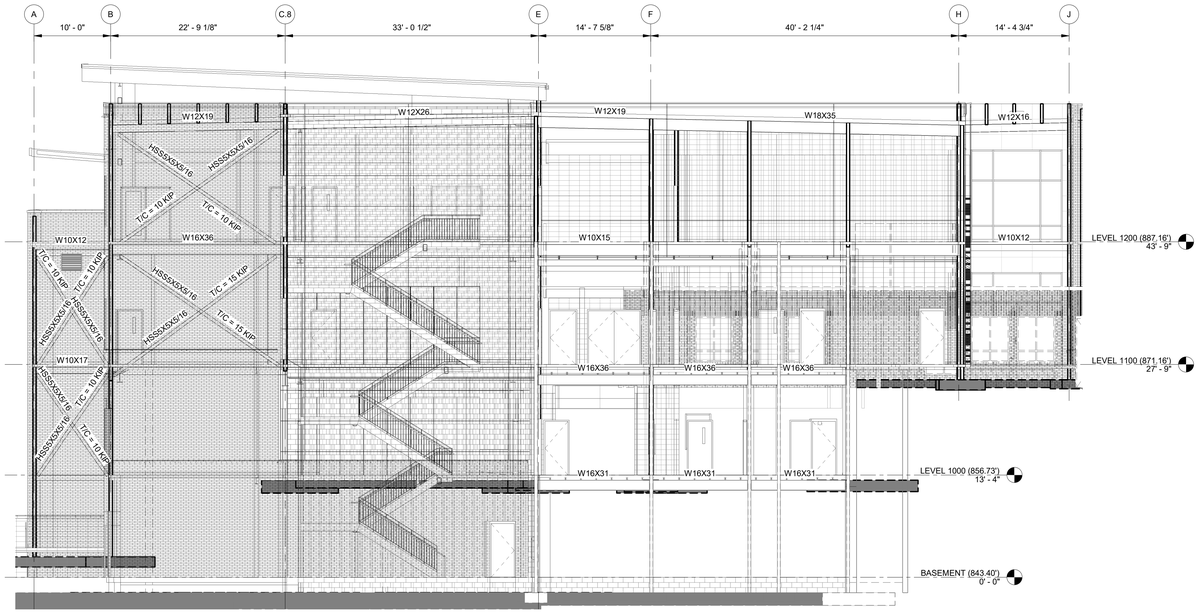
SHEET NO. S311

PROJ. NO. 20242



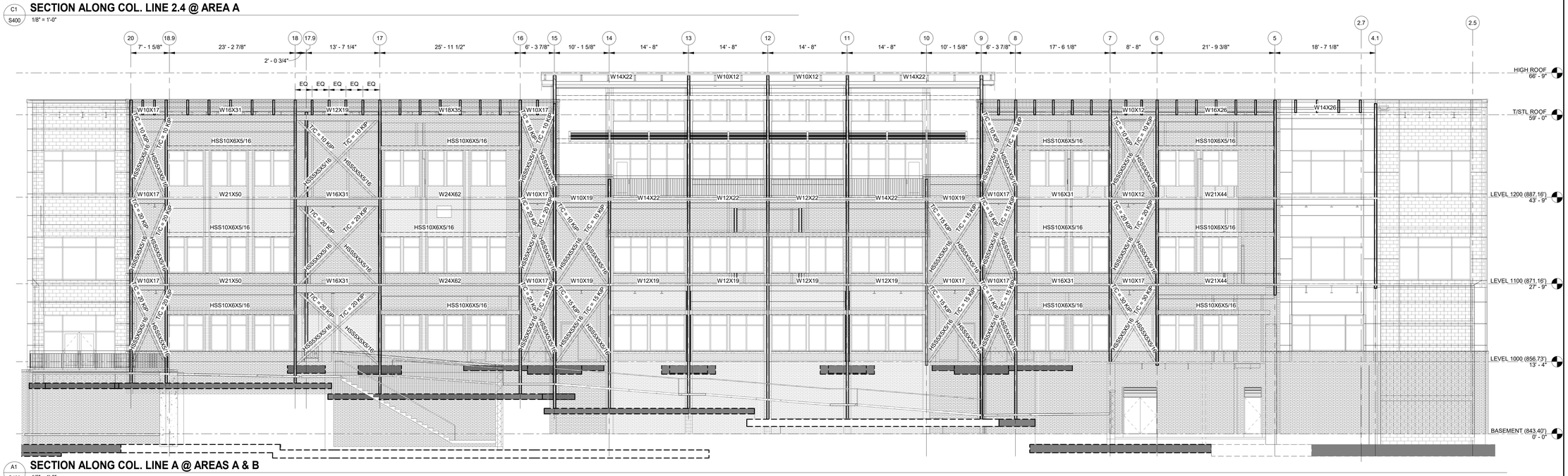
D1 S400 **SECTION ALONG COL. LINE 2.5 @ AREA C**

1/8" = 1'-0"



C1 S400 **SECTION ALONG COL. LINE 2.4 @ AREA A**

1/8" = 1'-0"



A1 S400 **SECTION ALONG COL. LINE A @ AREAS A & B**

1/8" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

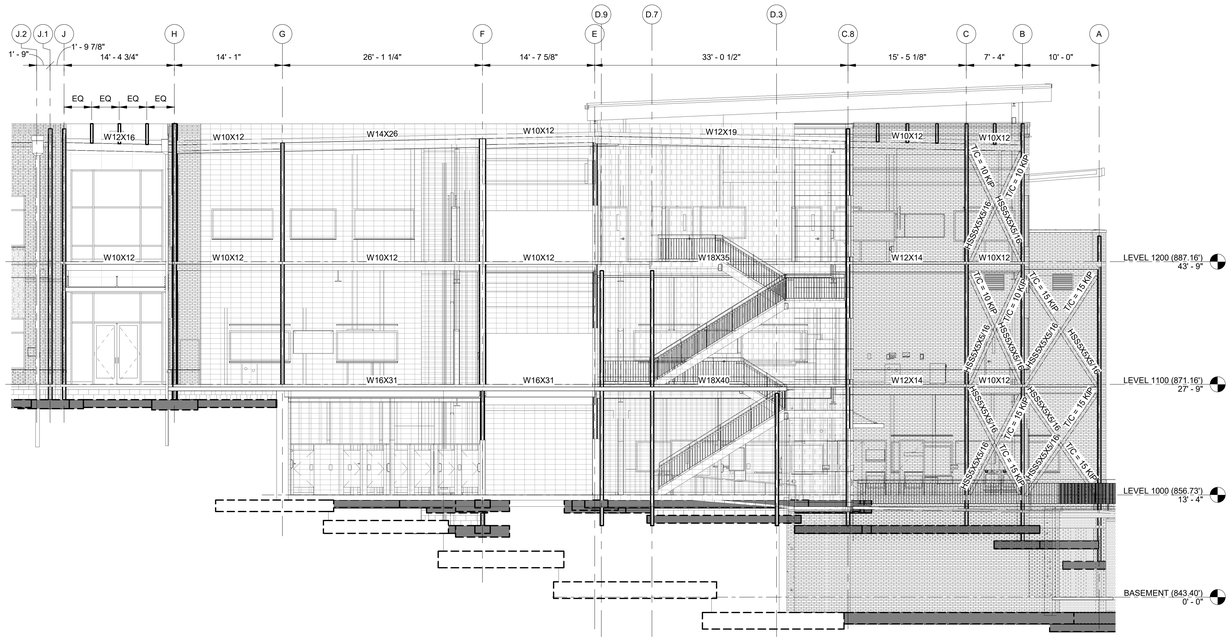
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

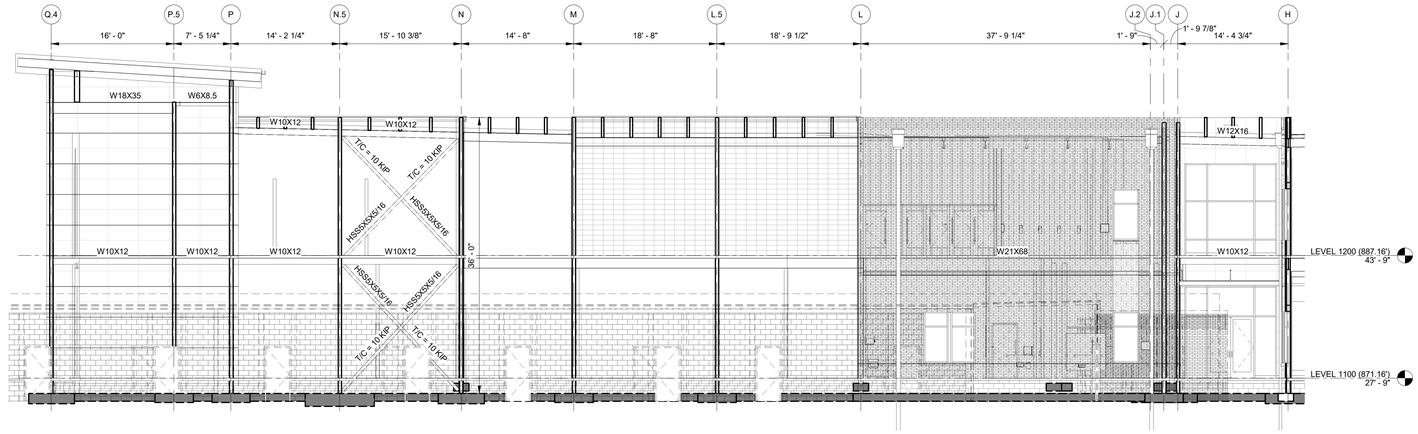
SHEET TITLE:
FRAMING ELEVATIONS

SHEET NO. S400

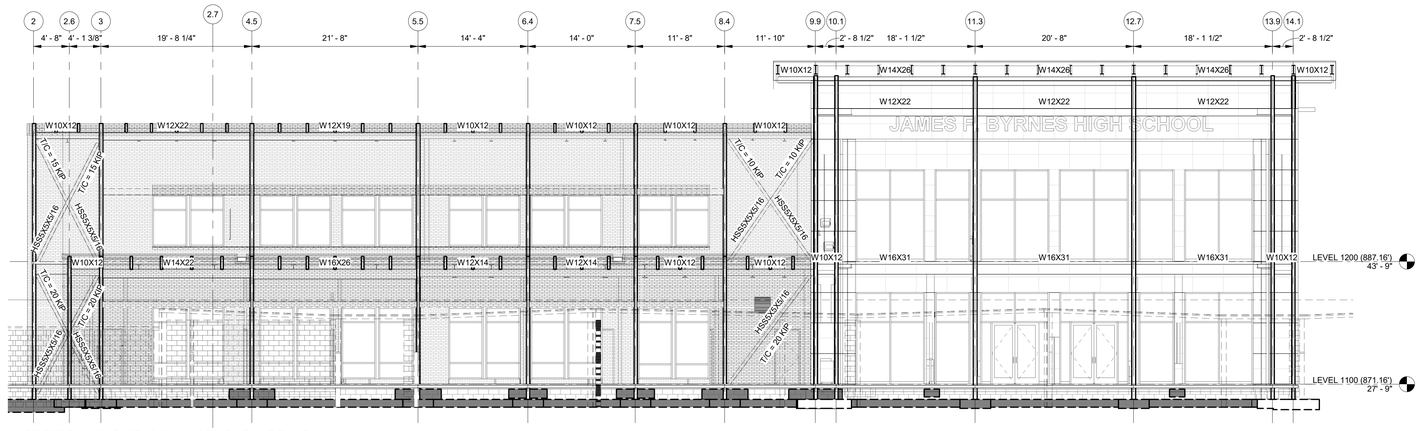
PROJ. NO. 20242



D1 S401 **SECTION ALONG COL. LINE 21 @ AREA B**
1/8" = 1'-0"



C1 S401 **SECTION ALONG COL. LINE 15.7 @ AREA C**
1/8" = 1'-0"



A1 S401 **SECTION ALONG COL. LINE Q @ AREA C**
1/8" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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GMP SET 06/01/22

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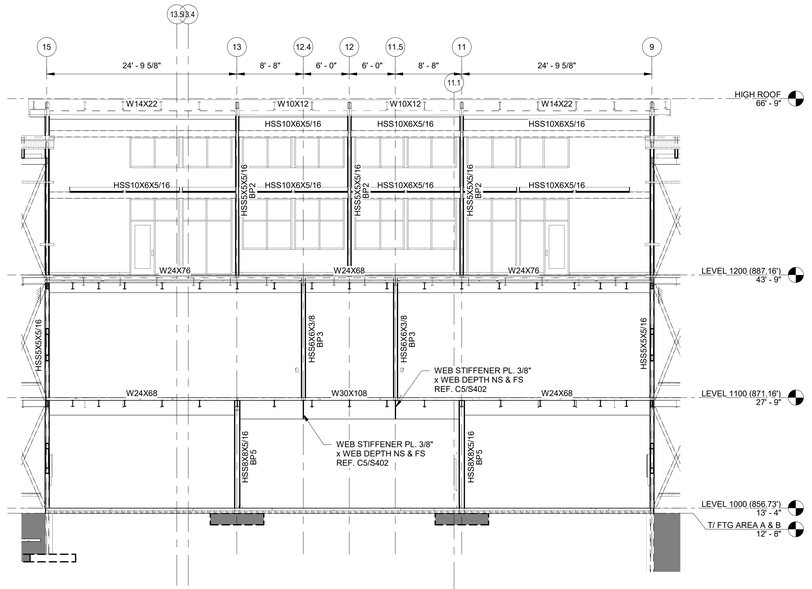
PROJECT ENGINEER:	ATR
DRAWN BY:	JSD,BH,JG,ATR

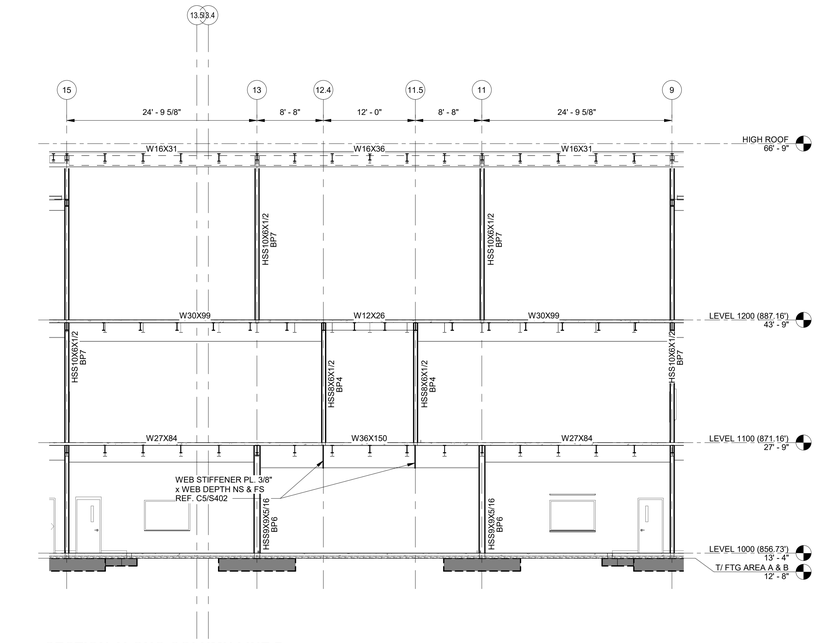
SHEET TITLE:
FRAMING ELEVATIONS

SHEET NO. S401

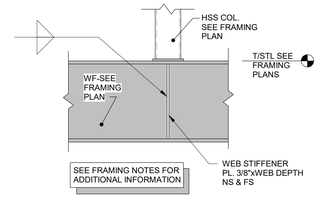
PROJ. NO. 20242



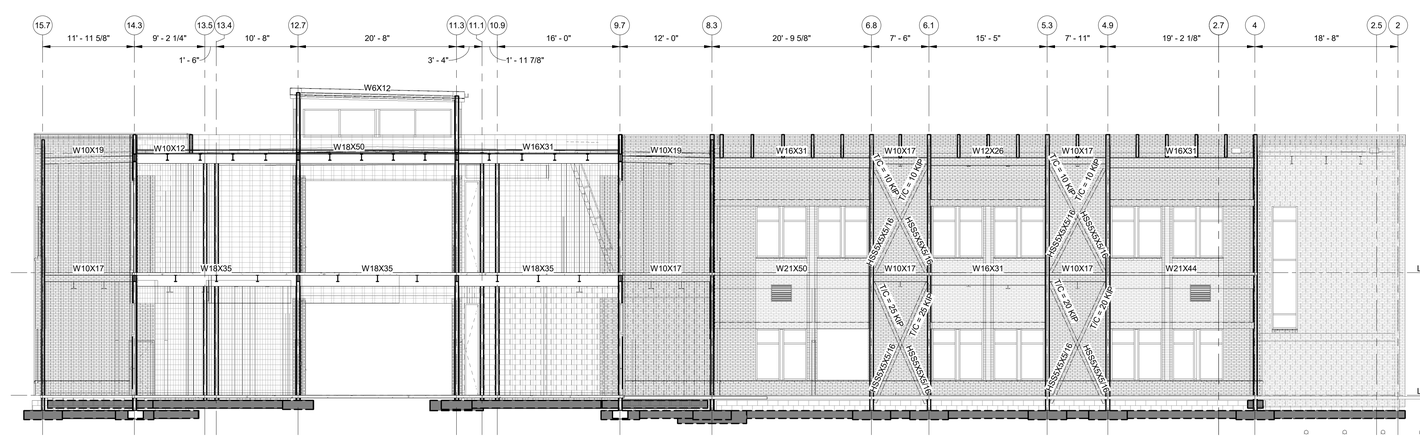
C1 S402 **SECTION ALONG COLUMN LINE B.1**
1/8" = 1'-0"



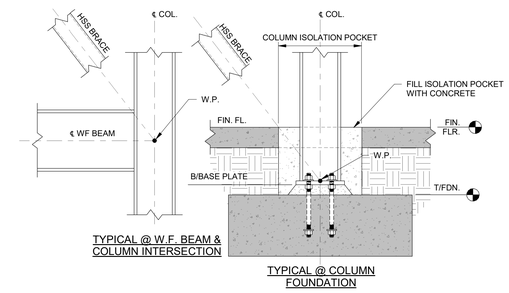
C2 S402 **SECTION ALONG COLUMN LINE D**
1/8" = 1'-0"



C5 S402 **WEB STIFFENER DETAIL**
1" = 1'-0"



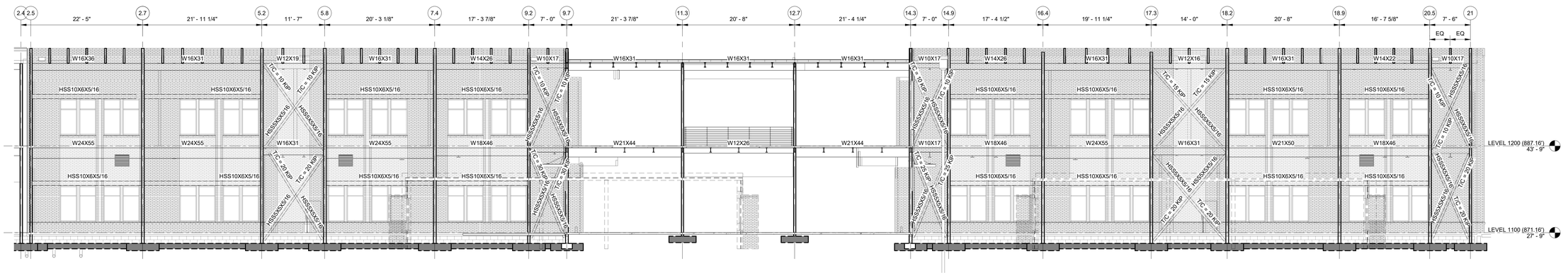
B1 S402 **SECTION ALONG COL. LINE J @ AREA C**
1/8" = 1'-0"



NOTE TO CONTRACTOR :
GC TO COORDINATE WITH STEEL FABRICATOR THE EXTENTS OF THE COLUMN ISOLATION POCKET REQUIRED TO ACCOMMODATE BASE PLATE, DIAGONAL BRACE, & GUSSET PLATE.

NOTE TO FABRICATOR :
STEEL FABRICATOR SHALL DESIGN HSS BRACING CONNECTIONS AS REQUIRED TO RESIST THE AXIAL FORCES INDICATED. NO REDUCTION IN FORCE OR INCREASE IN ALLOWABLE STRESSES IS ALLOWED.

B5 S402 **BRACED FRAME WORK POINTS**
1" = 1'-0"



A1 S402 **SECTION ALONG COL. LINE G @ AREAS A & B**
1/8" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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GMP SET 06/01/22

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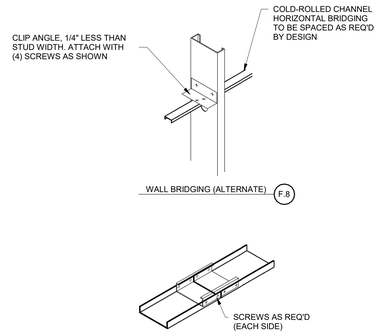
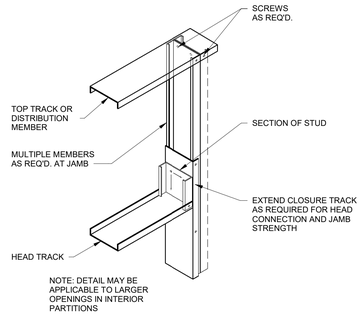
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
FRAMING ELEVATIONS

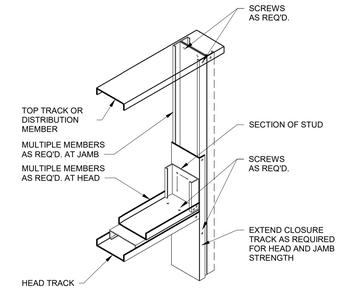
SHEET NO. S402
PROJ. NO. 20242



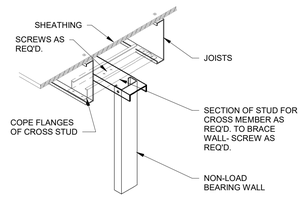
C2 S403 **CFS- WALL BRIDGING (ALTERNATE) AND TOP & BOTTOM TRACK SPLICE DETAILS**
1" = 1'-0"



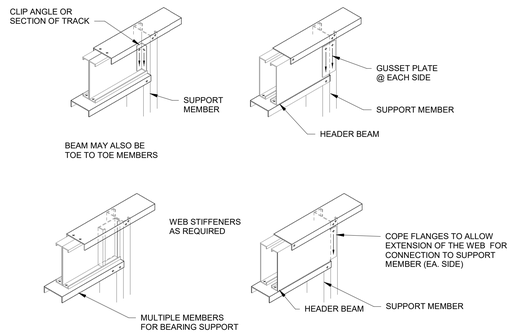
C3 S403 **CFS- NON-AXIAL LOAD BEARING JAMB & HEAD DETAIL (LESS THAN 4'-0")**
1" = 1'-0"



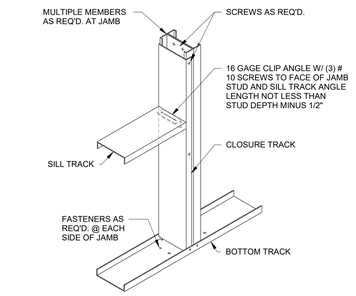
D4 S403 **CFS- NON-AXIAL LOAD BEARING JAMB & HEAD DETAIL (GREATER THAN 4'-0")**
1" = 1'-0"



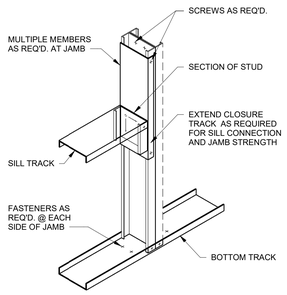
C4 S403 **CFS- T/NON-LOAD BEARING WALL PARALLEL TO JOISTS DETAIL**
1" = 1'-0"



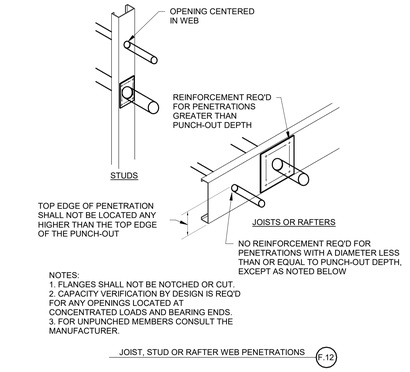
B1 S403 **CFS- ALTERNATE HEADER BEAM CONNECTIONS DETAIL**
1" = 1'-0"



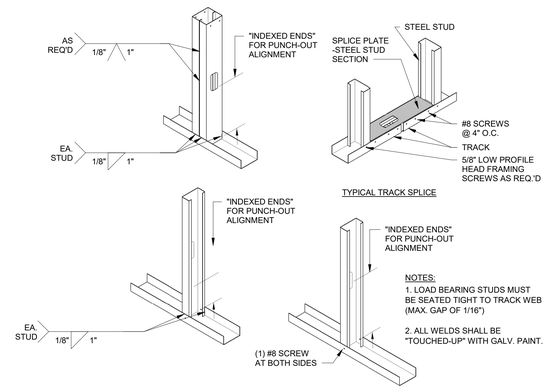
B2 S403 **CFS- SILL DETAIL**
1" = 1'-0"



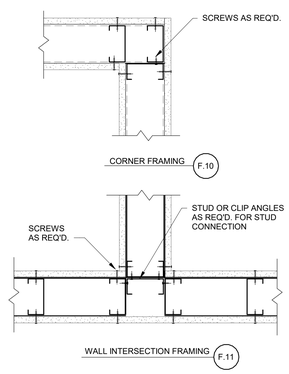
B3 S403 **CFS- JAMB & SILL DETAIL (LESS THAN 4'-0")**
1" = 1'-0"



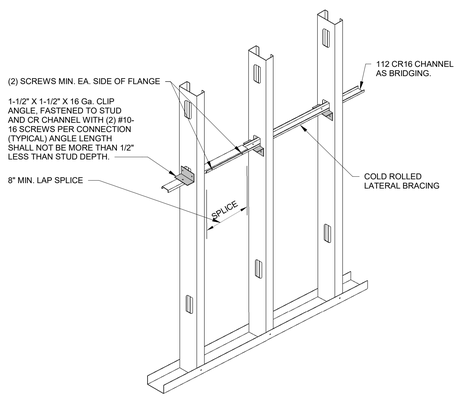
B4 S403 **CFS- JOIST, STUD OR RAFTER WEB PENETRATIONS DETAILS**
1" = 1'-0"



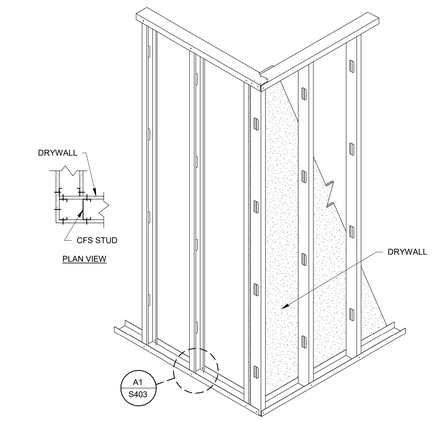
A1 S403 **CFS- TYPICAL STUD TO TRACK CONNECTIONS DETAIL**
1" = 1'-0"



A2 S403 **CFS- WALL FRAMING DETAILS**
1" = 1'-0"



A3 S403 **CFS- TYPICAL BRIDGING WITH CLIP ANGLE DETAIL**
1" = 1'-0"



A4 S403 **CFS- TYPICAL CORNER DETAIL**
1" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	PGG

NOT FOR CONSTRUCTION
FOR PRICING ONLY

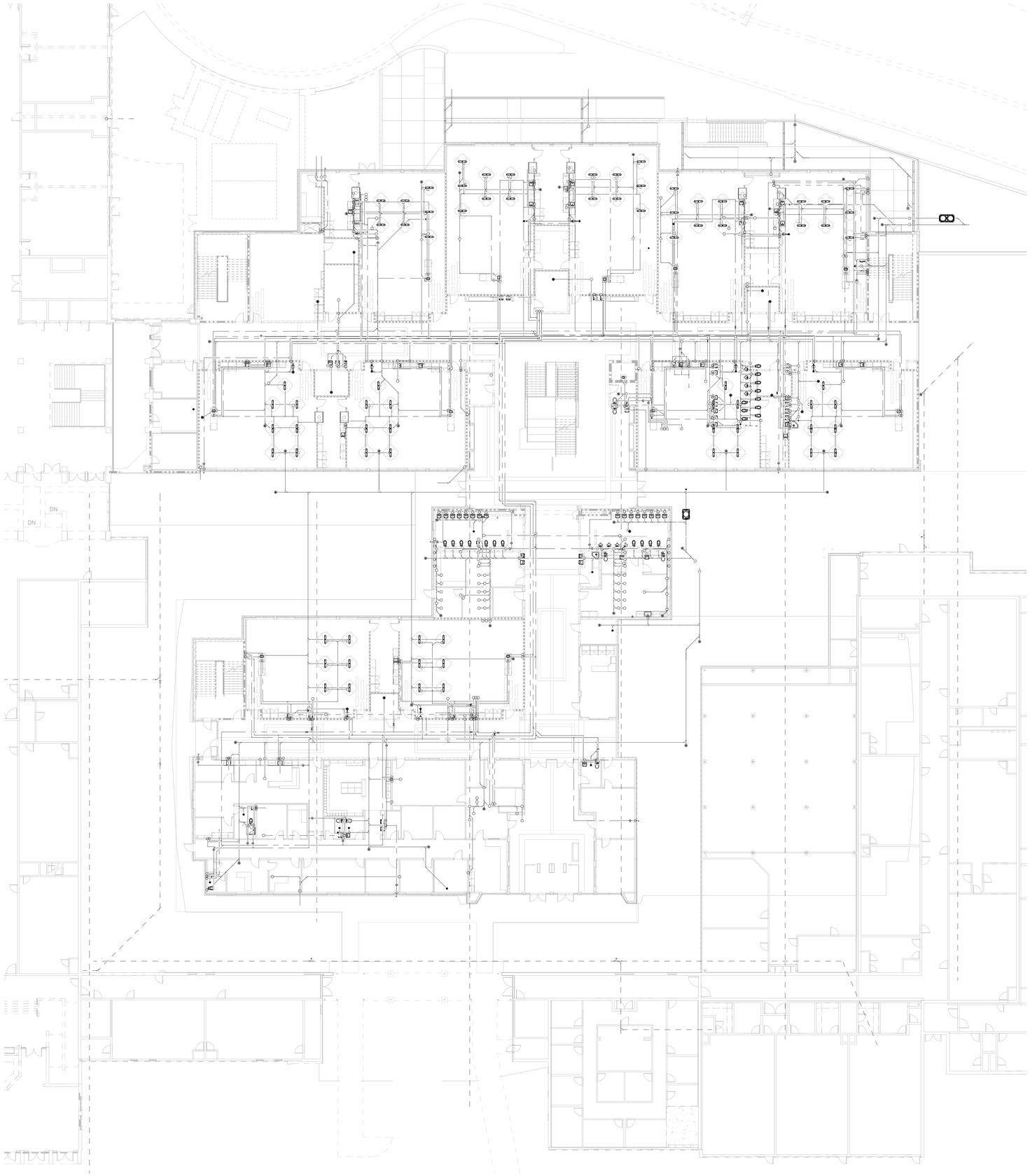
GMP SET 06/01/22

PRINCIPAL IN CHARGE: PGG
PROJECT ENGINEER: ATR
DRAWN BY: JSD,BH,JG,ATR

SHEET TITLE:
COLD FORMED STL. FRAMING DETAILS (SUGGESTED)

SHEET NO. PROJ. NO. 20242

S403



OVERALL FLOOR PLAN
1/16" = 1'-0"

GENERAL NOTES:

1. ALL SEWER FLOOR CLEAN-OUTS SHALL TURN UP TO GRADE/SLAB WITH A LONG SWEEP ELL.
2. OUTSIDE CLEAN-OUTS SHALL BE SET IN A 4" DEEP CONCRETE PAD. SEE SPECS.
3. ALL FLOOR DRAINS, HUB DRAINS, AND A/C CONDENSATE DRAINS SHALL HAVE DEEP SEAL TRAPS (MINIMUM 4" SEAL).
4. ALL WATER CLOSETS SHALL HAVE HYDRAULIC SHOCK ABSORBERS; REFER TO SPECS FOR SIZE. MOUNT EACH SHOCK ABSORBER ON A RISER AND ACCESSIBLE FROM THE CEILING SPACE.
5. FIRE PROOF ALL PIPE PENETRATIONS OF A FIRE WALL. SEE DETAILS ON P201.
6. ALL MANHOLES AND INTERCONNECTING SEWER LINES SHALL BE SET TO A TOLERANCE TO ALLOW LINE OF SITE INSPECTION BETWEEN MANHOLES.
7. CONDENSATE DRAINS SERVE HVAC EQUIPMENT; SEE DETAIL ON P-5 FOR EQUIPMENT CONNECTION DETAIL.
8. INSULATE P-TRAP AND HORIZONTAL DRAIN LINES ABOVE CEILING THAT RECEIVE THE CONDENSATE FROM HVAC EQUIPMENT (SEE SPECIFICATIONS).
9. DO NOT INSTALL PLUMBING VENTS WITHIN 10' FROM A FRESH AIR INTAKE VENT.
10. MECHANICAL ROOMS: COORDINATE THE EXACT LOCATION OF MECHANICAL ROOM FLOOR DRAINS WITH MECHANICAL CONTRACTOR AND G.C. TO AVOID EQUIPMENT AND CONCRETE PADS.
11. COORDINATE LOCATIONS OF OVERFLOW SCUPPERS WITH ARCHITECTURAL ELEVATIONS
12. WHERE SEWER LINES ARE ROUTED BELOW THE STRUCTURAL FOOTINGS OR THROUGH FOUNDATION WALLS, PROVIDE A PIPE SLEEVE. THE SLEEVE SHALL BE A MINIMUM 2 PIPE SIZES LARGER THAN THE PIPE PASSING BELOW THE FOOTING.
13. WHERE PLUMBING LINES PENETRATE A WALL OR WHERE PLUMBING LINES EXTEND THROUGH FLOOR SLABS AND OR THICKENED SLABS, THE PLUMBING LINE SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX INSULATION.
14. INSTALL A FLEXIBLE RUBBER VALVE INSERT IN ADDITION TO THE DEEP SEAL TRAP AT ALL FLOOR DRAINS AND HUB DRAINS.
15. PROTECT ALL PENETRATIONS OF NO-FIRE RESISTANCE RATED ASSEMBLIES WITH AN APPROVED NON-COMBUSTIBLE MATERIAL TO RESIST THE PASSAGE OF FLAME AND SMOKE
16. THE AIR GAP BETWEEN ALL INDIRECT WASTE PIPES AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE MINIMUM TWO PIPE DIAMETERS OF THE INDIRECT WASTE PIPE.
17. PIPE GAS RELIEF VENTS TO OUTSIDE:
    BOILERS & WATER HEATERS: (FOR EACH UNIT)
    RELIEF VALVES FULL SIZE (EA.); PRV VENT FULL SIZE (EA.); GAS TRAIN VENT SHALL BE SIZED AS FOLLOWS:

FUEL LINE DIA.	UP TO 1-1/2"	2"	2-1/2"	3"	4"	5"
VENT LINE DIA.	3/4"	1"	1-1/4"	1-1/4"	2"	2"

SYMBOLS

———	SEWER OR WASTE
- - - - -	VENT (OR EXIST. PIPE IF NOTED)
— — —	POTABLE COLD WATER (CW)
— — —	POTABLE HOT WATER (HW)
— - - —	HOT WATER PUMPED RETURN
—D—	DRAIN
—SD—	STORM DRAIN
—DS—	DOWNSPOUT
	GATE VALVE
	BALL VALVE
	UNION
	CHECK VALVE
	GLOBE VALVE
VB	VALVE BOX
CO	CLEANOUT
FD	FLOOR DRAIN
—G—	NATURAL GAS
HB	HOSE BIBB
WH	WALL HYDRANT
VTR	VENT THRU ROOF
SA	SHOCK ABSORBER
HD	HUB DRAIN
— A —	ACID WASTE
FS	FLOOR SINK
— F —	FIRE LINE
FH	FIRE HYDRANT
— TP —	TRAP PROTECTION (SEE SPECIFICATIONS)
O/H	OVER HEAD
U/G	UNDERGROUND
TG	TRAP GUARD VALVE (SEE SPECIFICATIONS)
AAV	AIR ADMITTANCE VALVE

PLUMBING SHEET LIST

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

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FOR PRICING ONLY

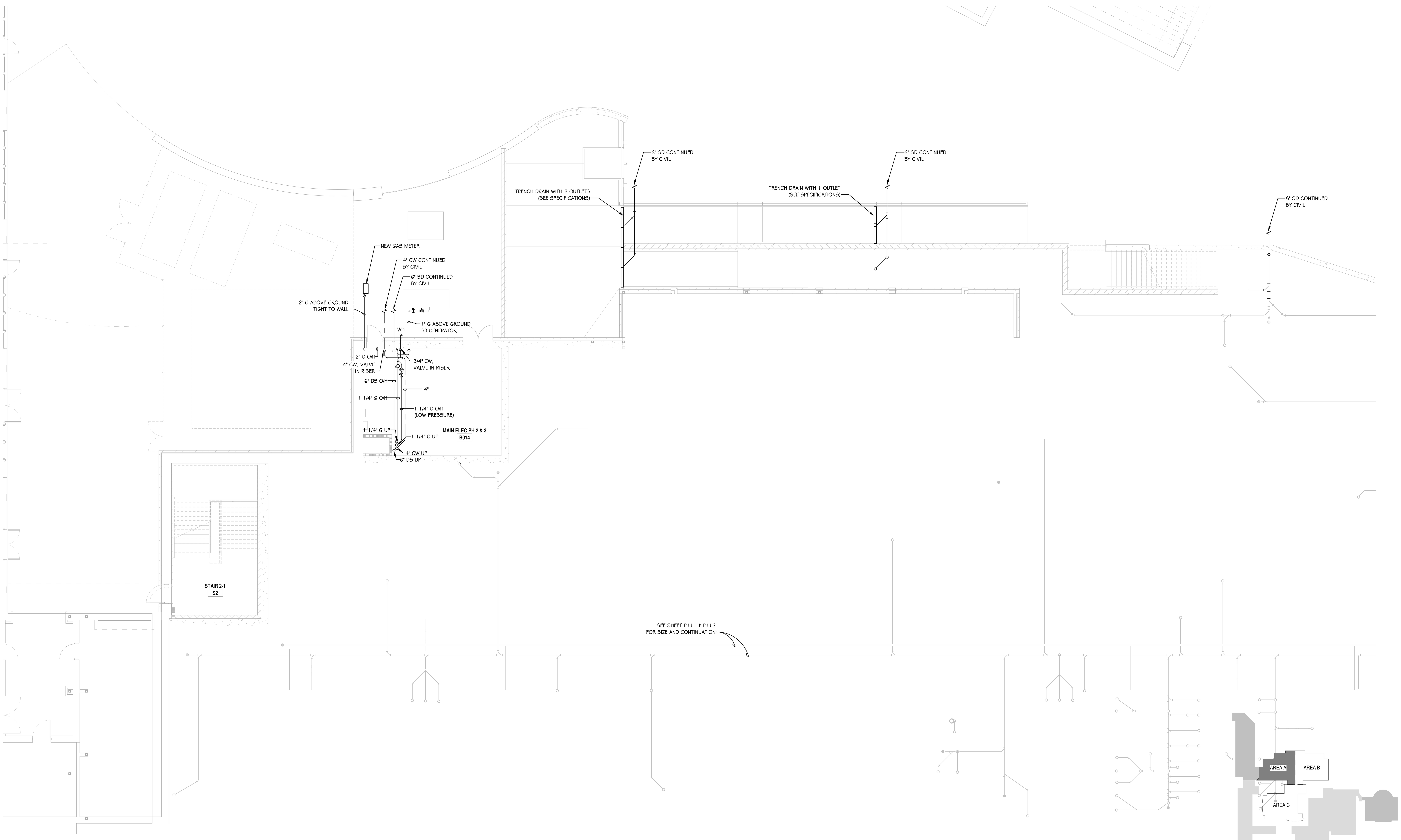
GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
PLUMBING COVER SHEET

SHEET NO. P001

CBE PROJ. NO. 2037



BASEMENT LEVEL PLUMBING PLAN

1/8" = 1'-0"

KEY PLAN

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

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ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

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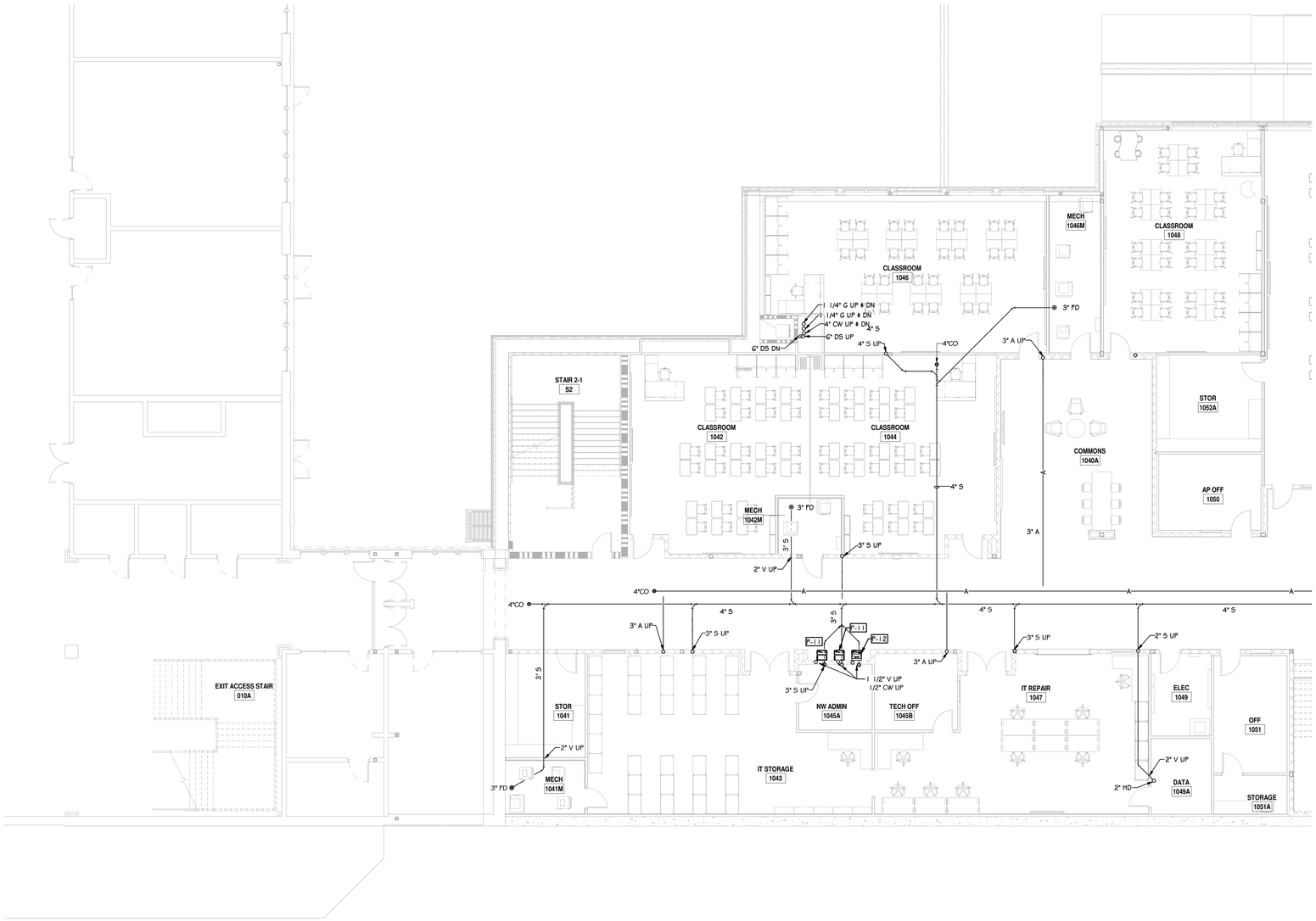
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

BASEMENT PLUMBING PLAN

SHEET NO. CBE PROJ. NO. 2037

P101



1000 LEVEL PLUMBING PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

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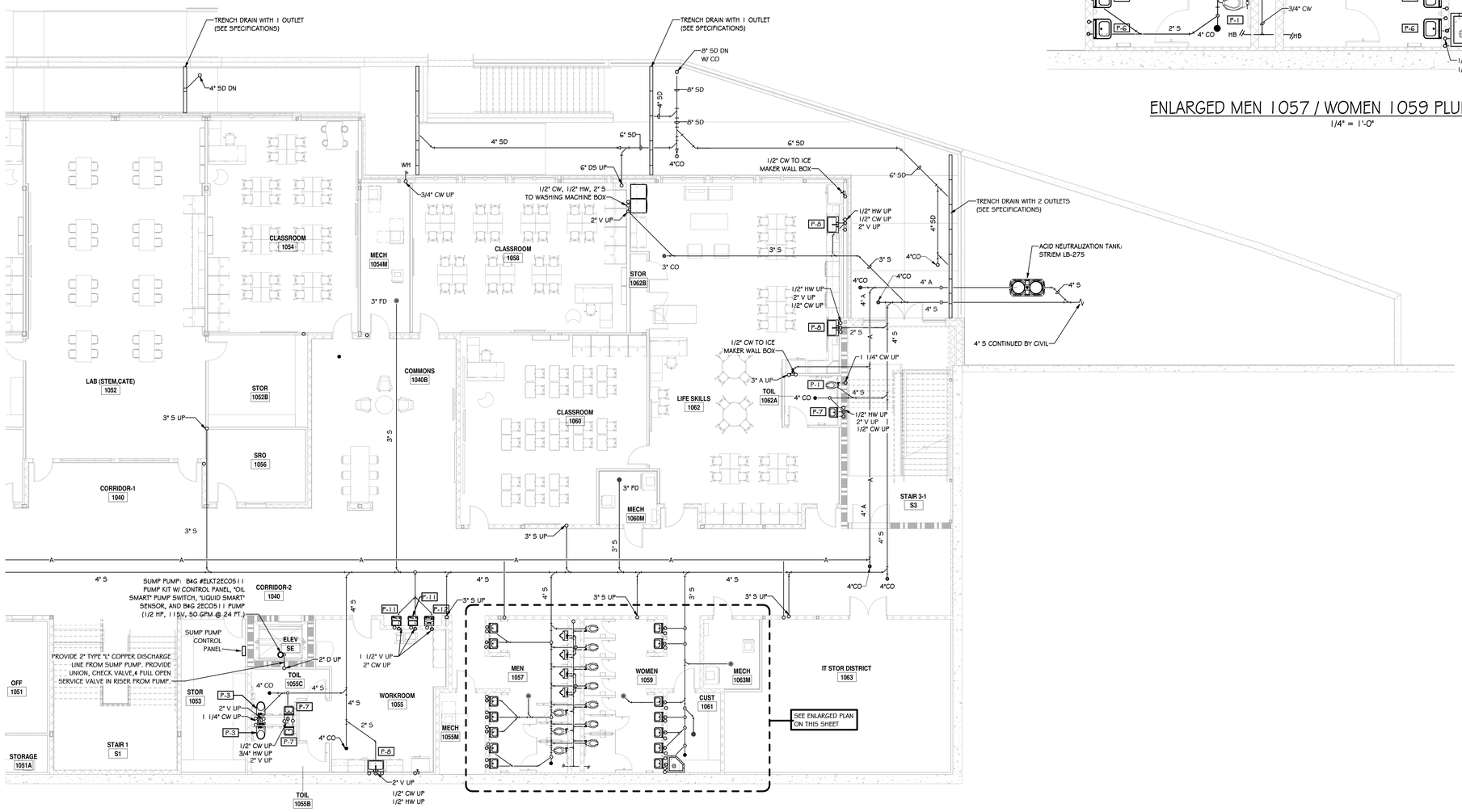
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
1000 LEVEL - PLUMBING PLAN AREA A

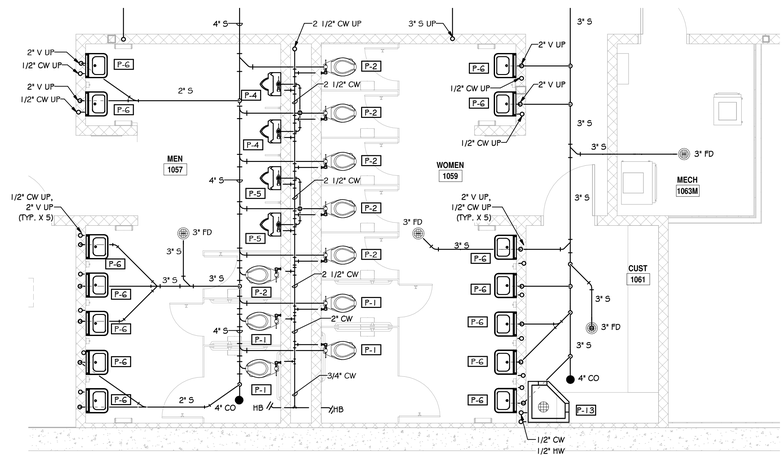
SHEET NO. CBE PROJ. NO. 2037

P111



1000 LEVEL PLUMBING PLAN - AREA 'B'

1/8" = 1'-0"



ENLARGED MEN 1057 / WOMEN 1059 PLUMBING PLAN

1/4" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

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PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
1000 LEVEL - PLUMBING PLAN AREA B

SHEET NO. P112

CBE PROJ. NO. 2037

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

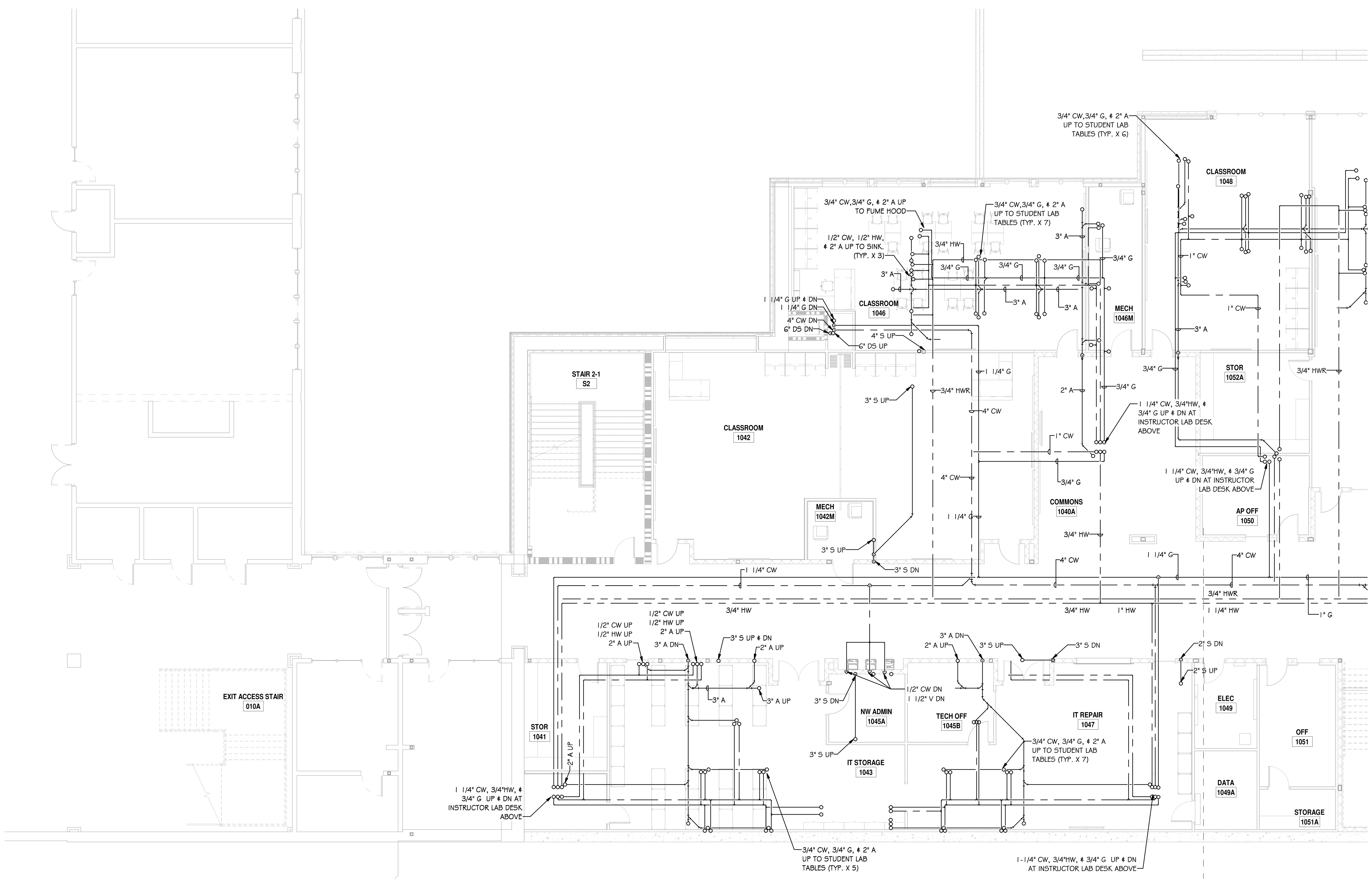
CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334



1000 LEVEL OVERHEAD PLUMBING PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

NOT FOR CONSTRUCTION
FOR PRICING ONLY

KEY PLAN

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

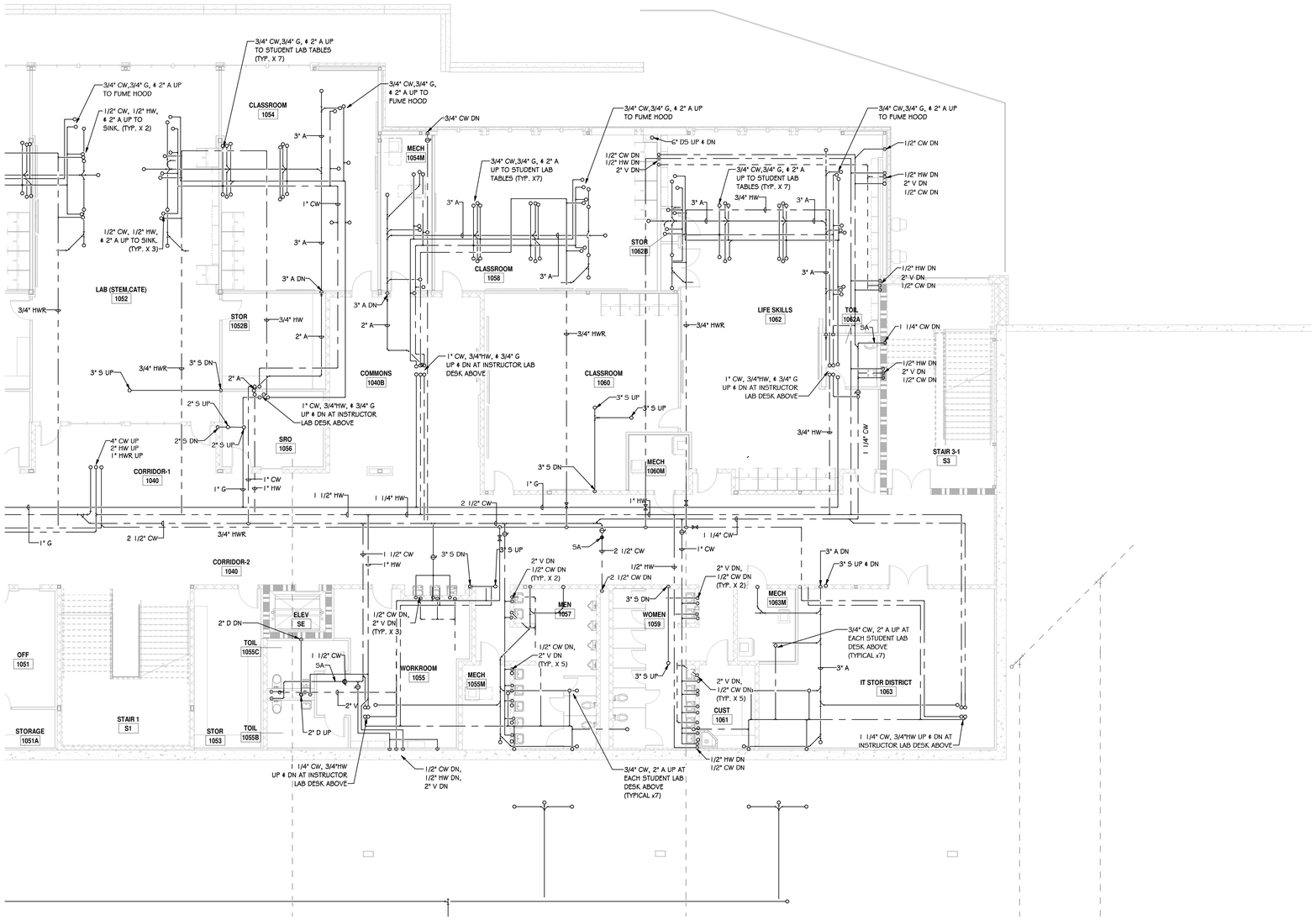
PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1000 LEVEL - OVERHEAD PLUMBING PLAN AREA A

SHEET NO. CBE PROJ. NO. 2037

P113



1000 LEVEL OVERHEAD PLUMBING PLAN - AREA 'B'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION FOR PRICING ONLY

GMP SET 06/01/22

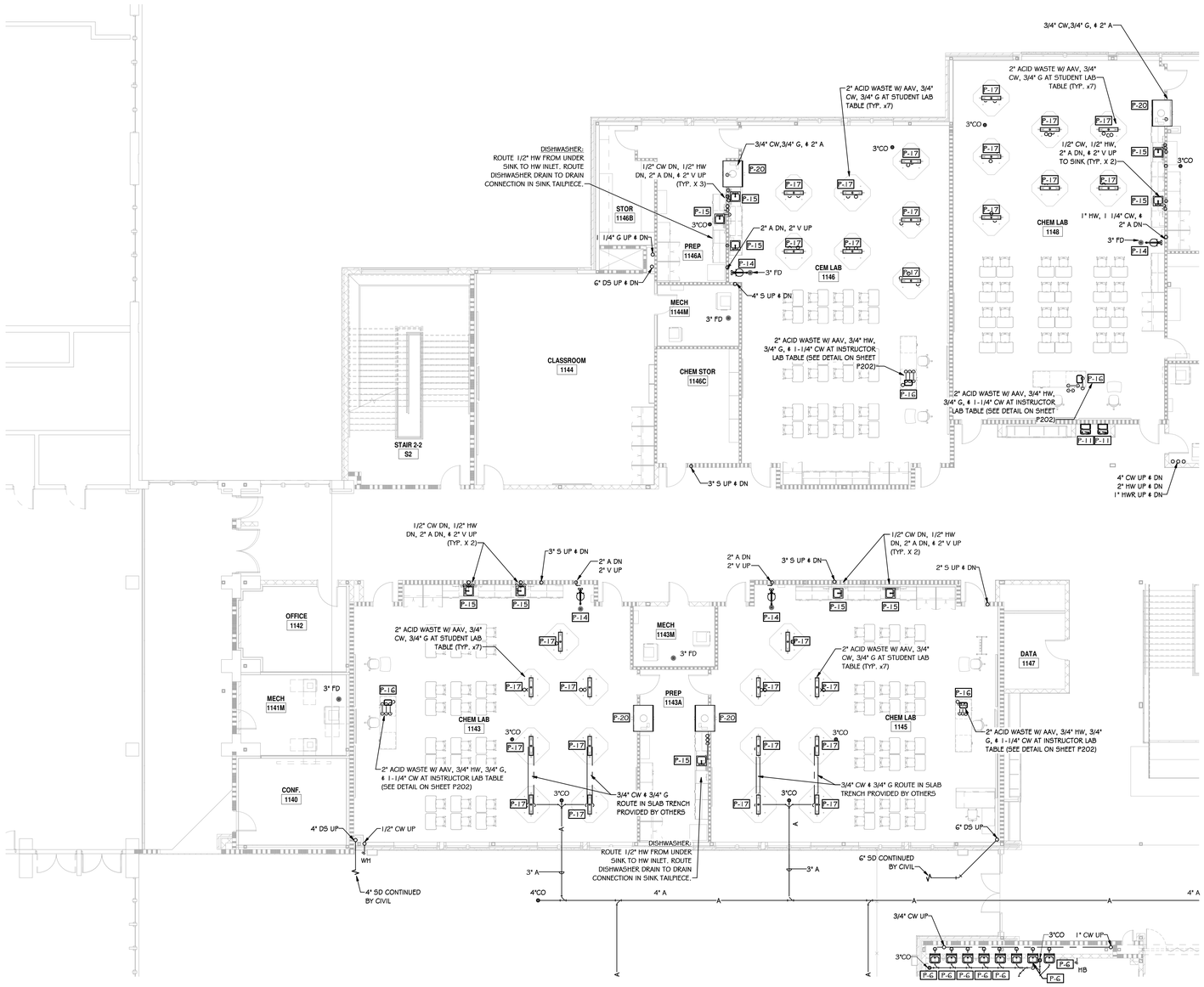
PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1000 LEVEL - OVERHEAD PLUMBING PLAN AREA B

SHEET NO. CBE PROJ. NO. 2037

P114



1100 LEVEL PLUMBING PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
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PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

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NOT FOR CONSTRUCTION
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GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1100 LEVEL - PLUMBING PLAN AREA A

SHEET NO. CBE PROJ. NO. 2037

P121

5/31/2022 11:06:26 PM BIM 360://020420.00_Byrnes HS - Phase 2/Plbg_Byrnes HS_Phase 2_R21.rvt

1100 LEVEL PLUMBING PLAN - AREA 'B'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

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NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

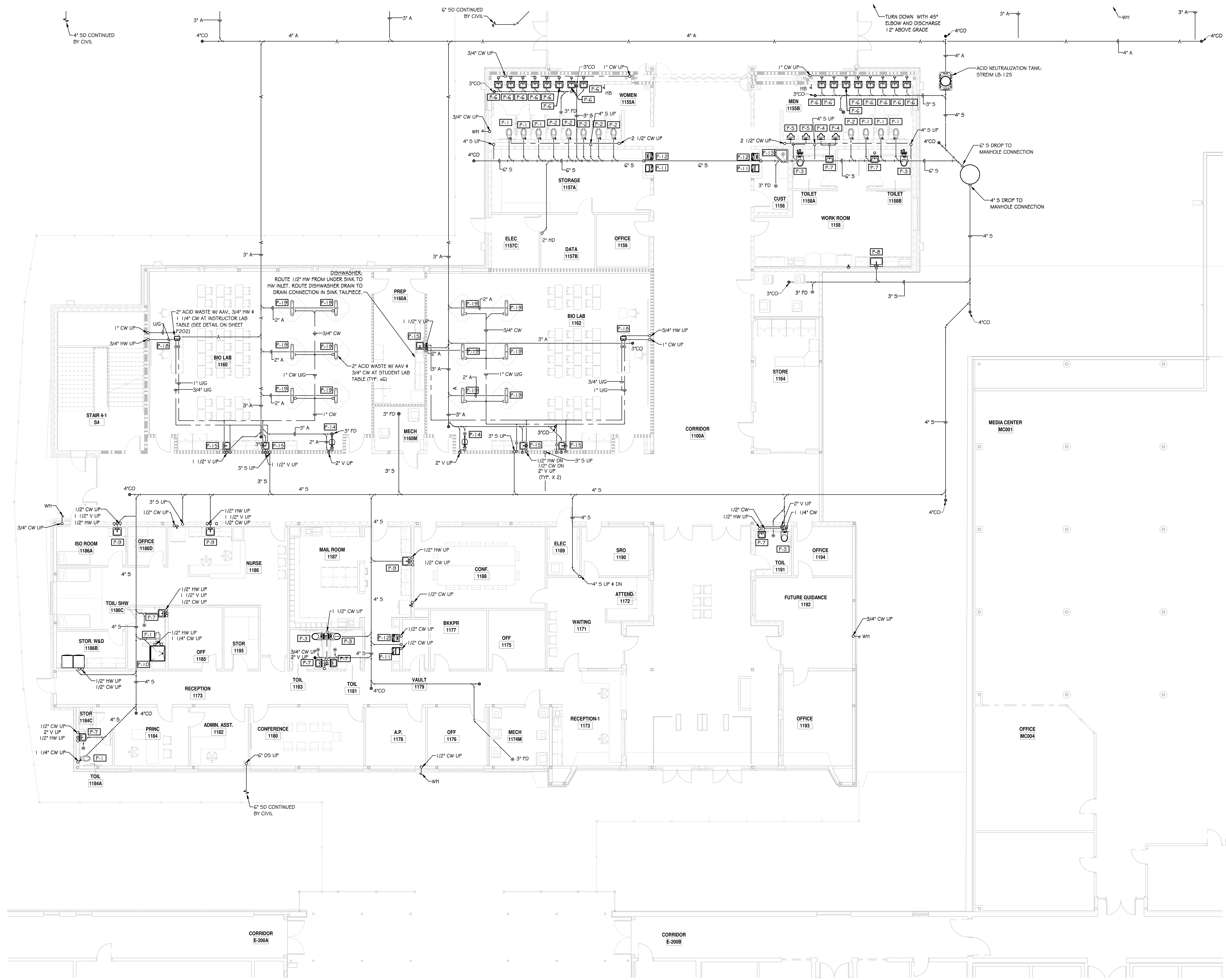
SHEET TITLE:

1100 LEVEL - PLUMBING PLAN AREA B

SHEET NO.

CBE PROJ. NO. 2037

P122

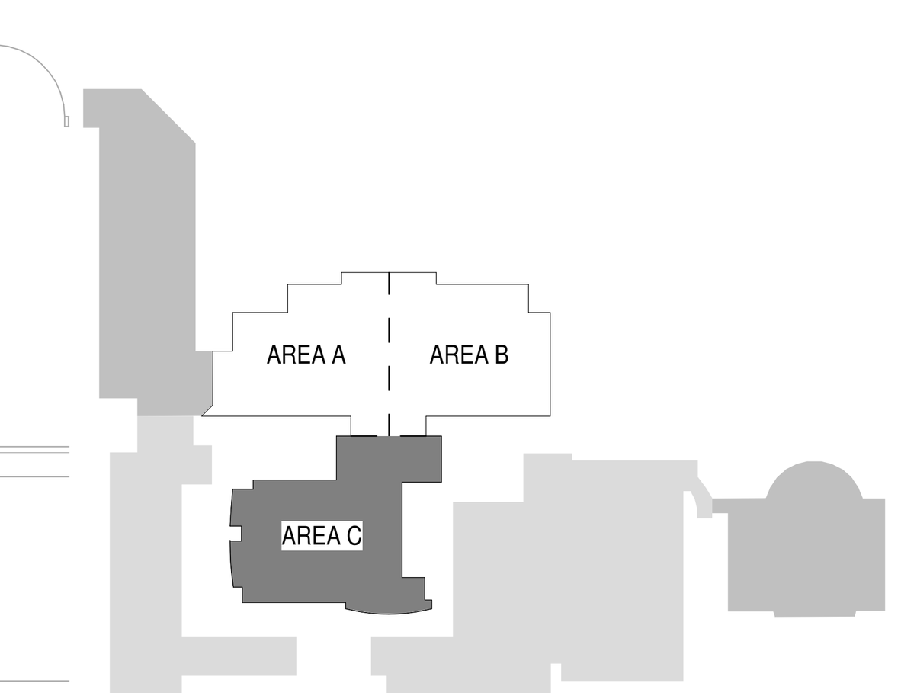


1100 LEVEL PLUMBING PLAN - AREA 'C'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.



KEY PLAN

NOT FOR CONSTRUCTION FOR PRICING ONLY

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

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GMP SET 06/01/22

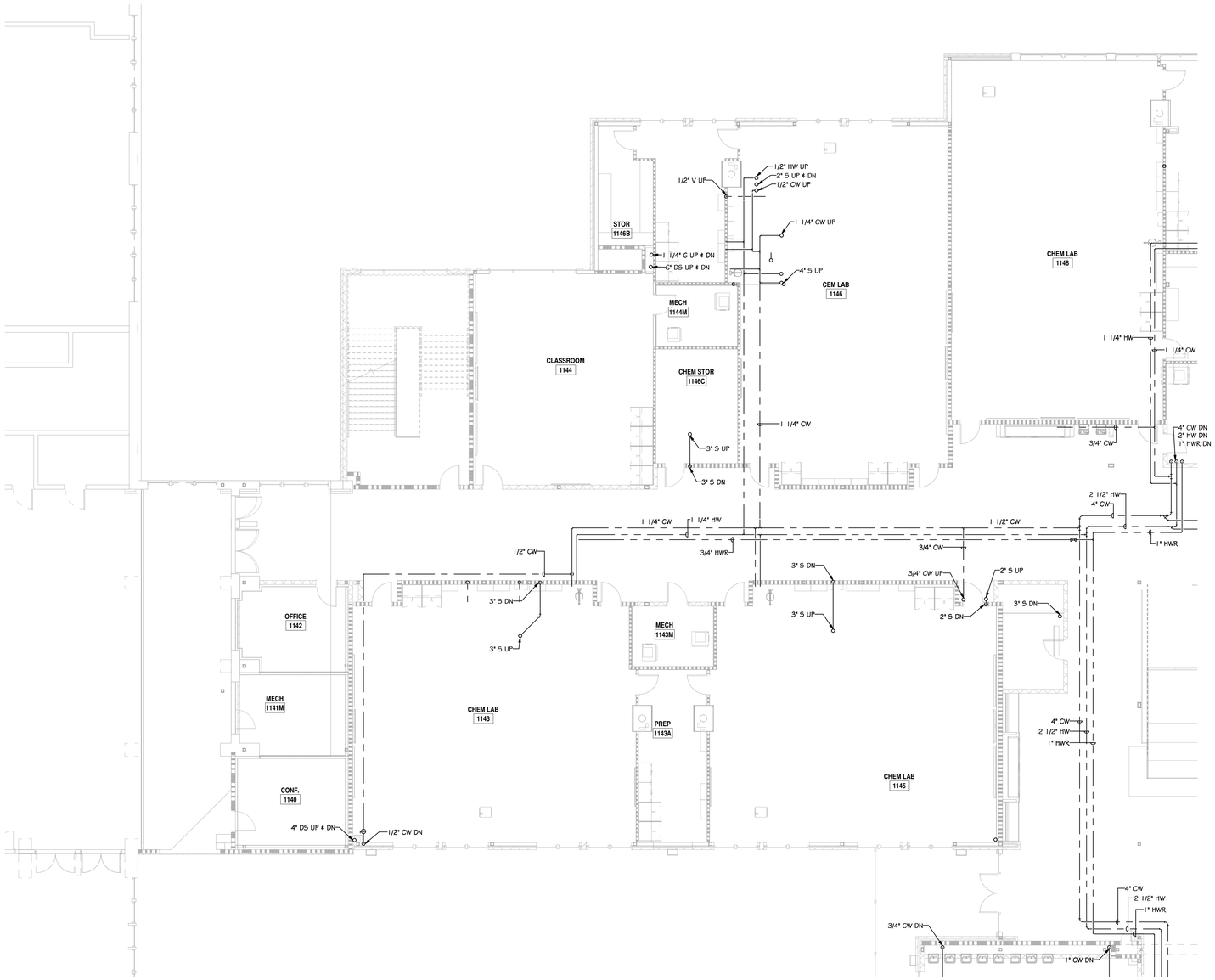
PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1100 LEVEL - PLUMBING PLAN AREA C

SHEET NO. CBE PROJ. NO. 2037

P123



1100 LEVEL OVERHEAD PLUMBING PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

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FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
1100 LEVEL - OVERHEAD PLUMBING PLAN AREA A

SHEET NO. CBE PROJ. NO. 2037

P124

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ARCHITECTURE

CONSULTANT LOGO

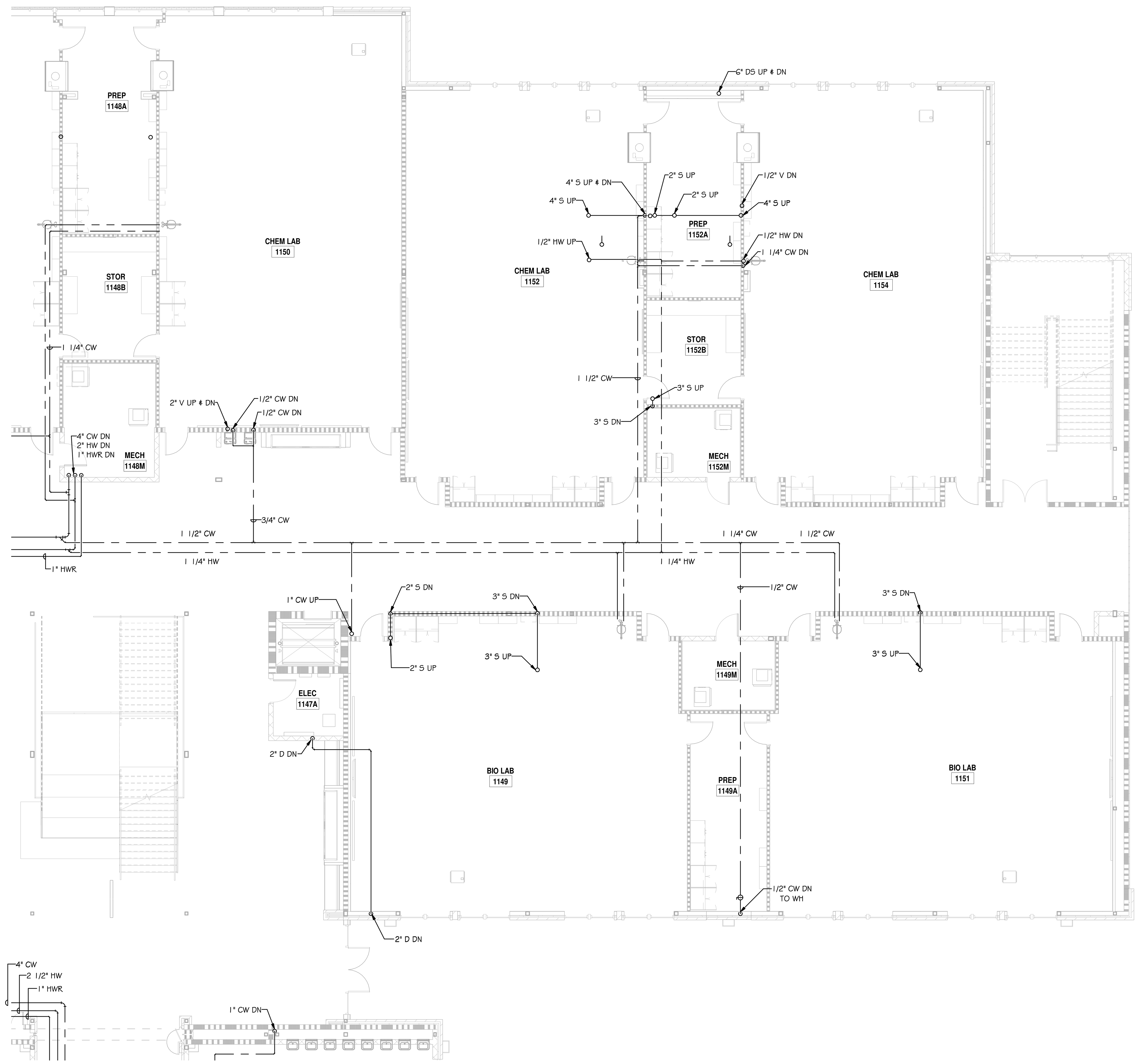
CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334



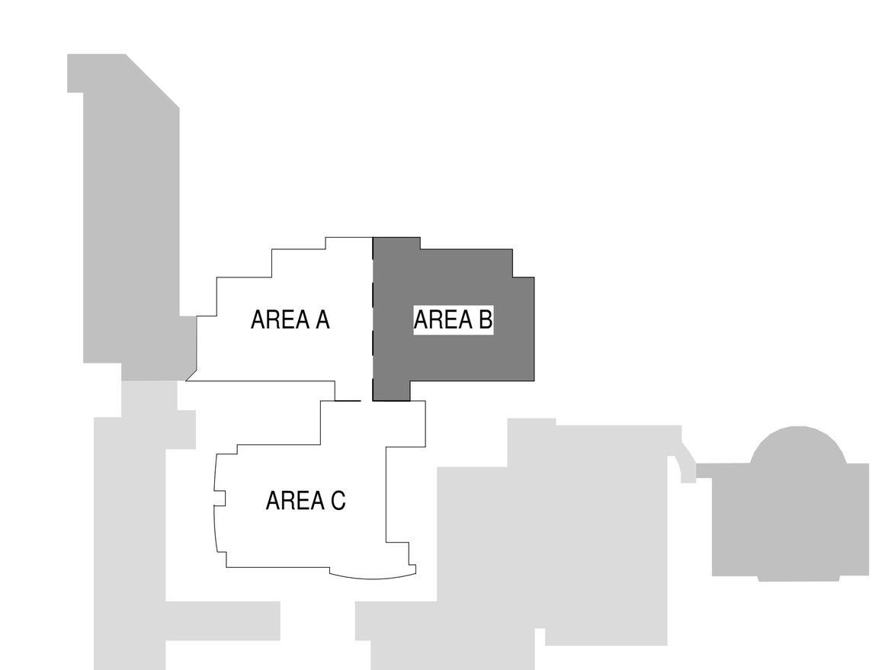
1100 LEVEL OVERHEAD PLUMBING PLAN - AREA 'B'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

NOT FOR CONSTRUCTION
FOR PRICING ONLY



KEY PLAN

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1100 LEVEL - OVERHEAD PLUMBING PLAN AREA B

SHEET NO. CBE PROJ. NO. 2037

P125

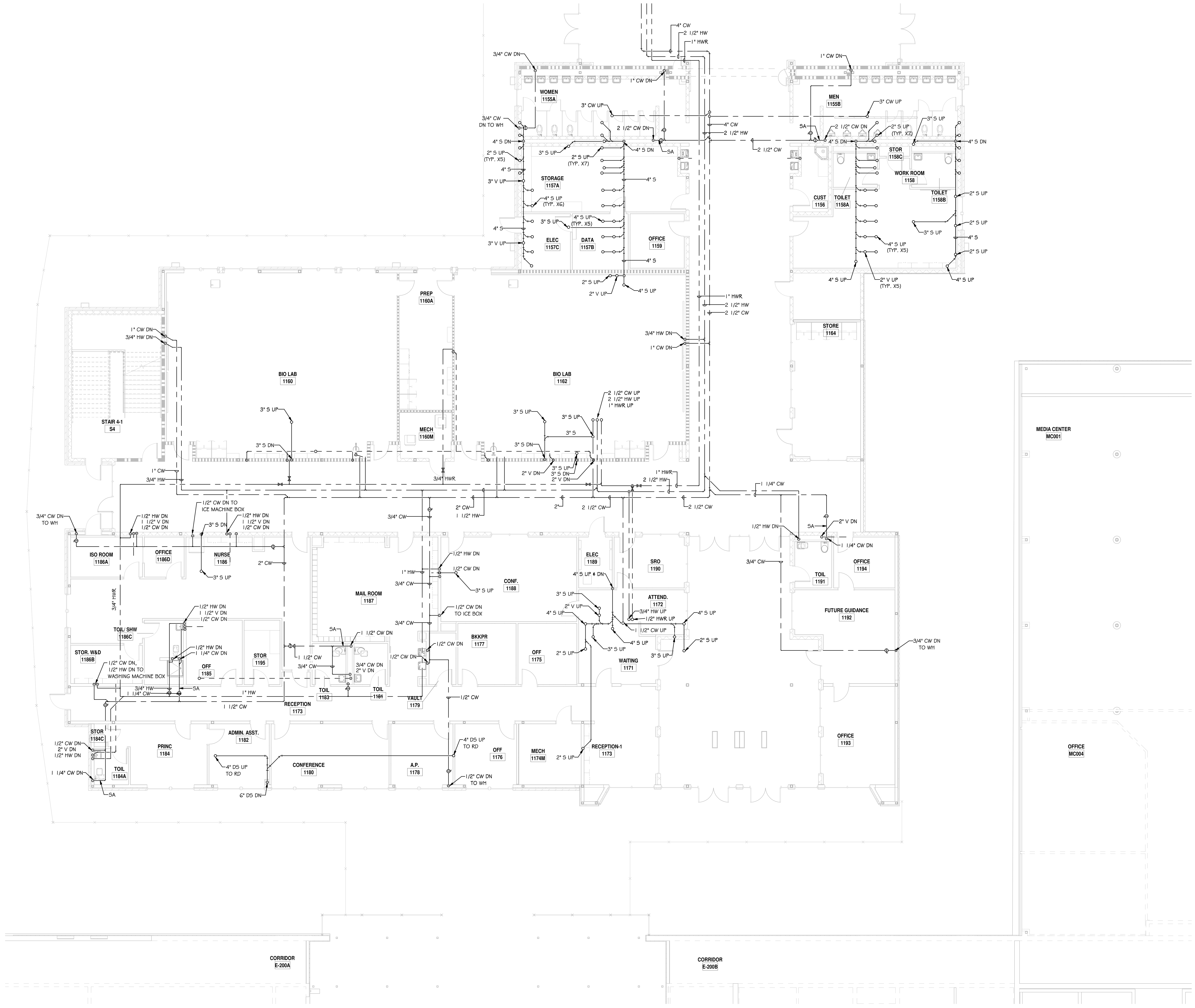
mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

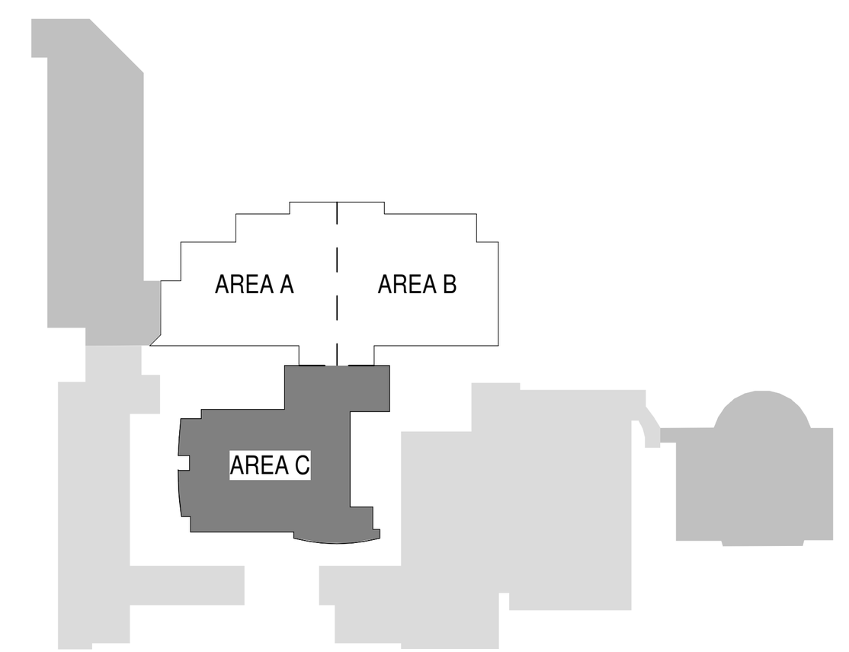
SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL PHASE 2
150 E. MAIN STREET
DUNCAN, SC 29334



SHEET - 1100 LEVEL OVERHEAD PLUMBING PLAN - AREA 'C'
1/8" = 1'-0"

SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET P001.

NOT FOR CONSTRUCTION
FOR PRICING ONLY



KEY PLAN

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

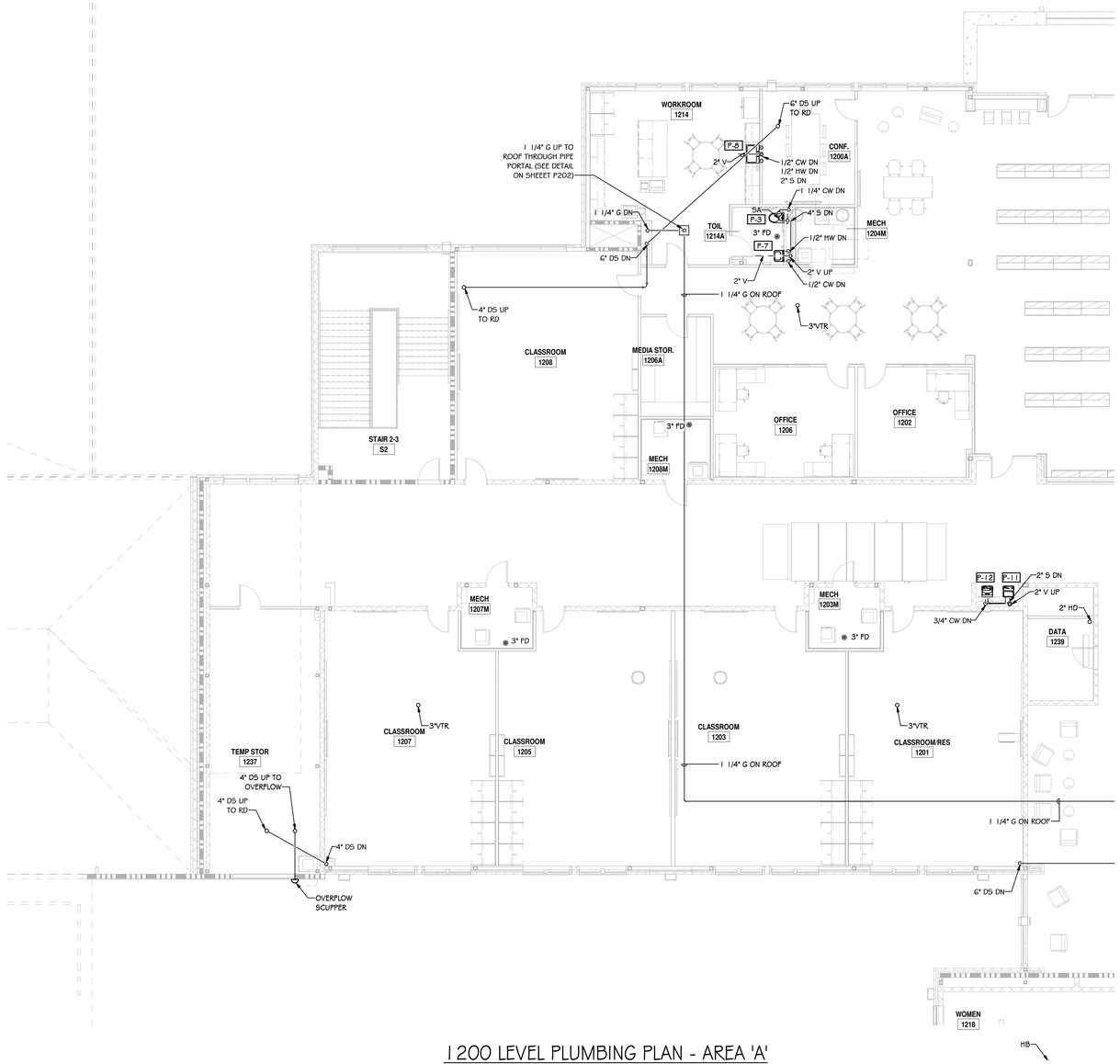
GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
1100 LEVEL - OVERHEAD PLUMBING PLAN AREA C

SHEET NO. CBE PROJ. NO. 2037

P126



1200 LEVEL PLUMBING PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	STB
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NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
1200 LEVEL - PLUMBING PLAN AREA A

SHEET NO. CBE PROJ. NO. 2037

P131

1200 LEVEL PLUMBING PLAN - AREA 'B'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

KEY PLAN

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
830 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1200 LEVEL -
PLUMBING PLAN
AREA B

SHEET NO. CBE PROJ. NO. 2037

P132

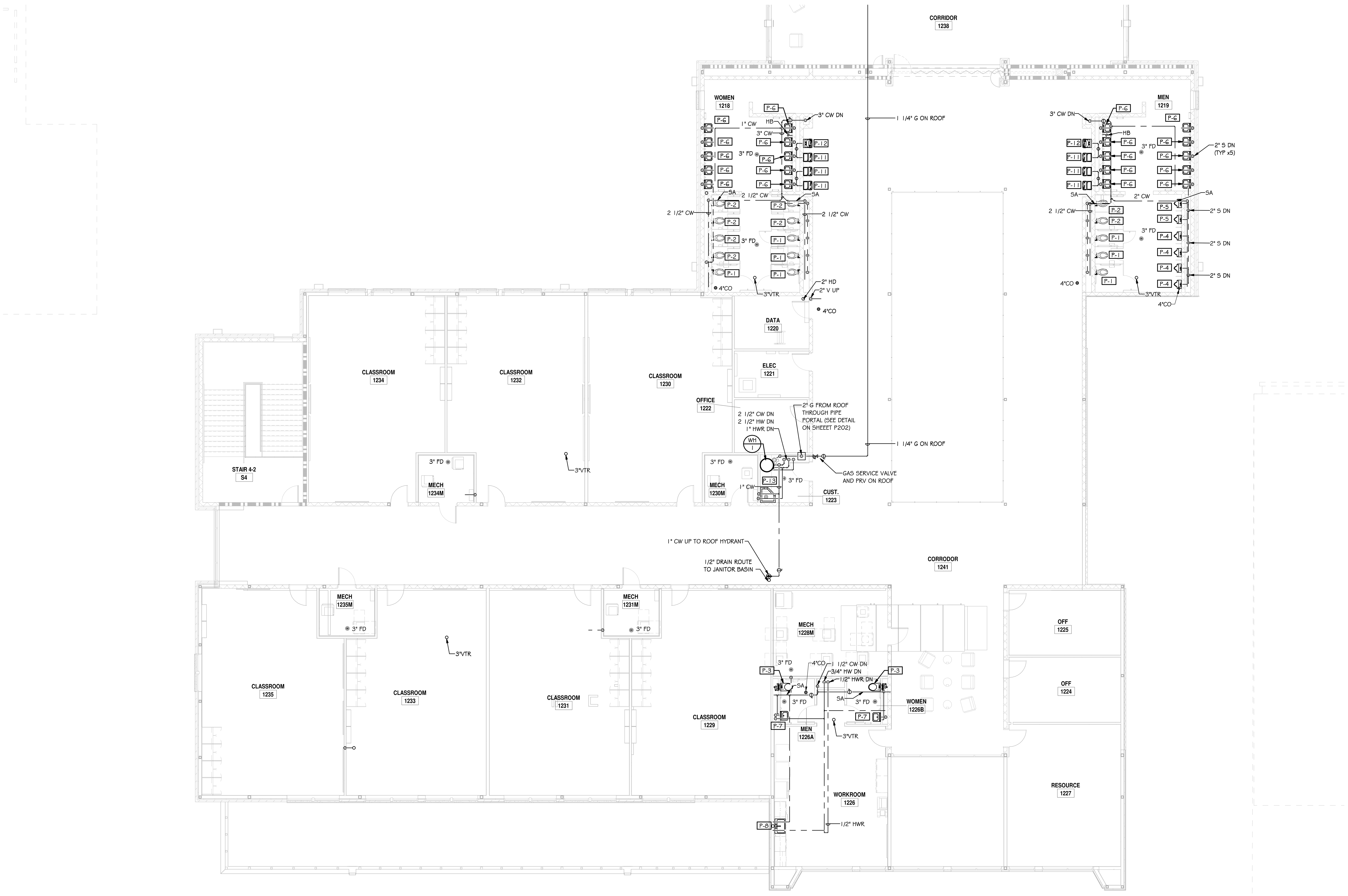
mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2
150 E. MAIN STREET
DUNCAN, SC 29334



1200 LEVEL PLUMBING PLAN - AREA 'C'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET P001.

NOT FOR CONSTRUCTION
FOR PRICING ONLY

KEY PLAN

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

1200 LEVEL - PLUMBING PLAN AREA C

SHEET NO.

CBE PROJ. NO. 2037

P133

WATER HEATER SCHEDULE

TAG	CAPACITY (GAL.)	GAS				ELECTRICAL		RECOVERY		MANUFACTURER	MODEL	CIRCULATOR PUMP	MIXING VALVE	REMARKS
		INPUT	OUTPUT	EFF.	FUEL	VOLTAGE	PHASE	G.P.H.	TEMP. RISE					
WH-1	80	725 MBH	580 MBH	80%	NAT. GAS	115	1	606	100°F	Bradford White Corporation	D-80T-725-3N(A)	B&G ECOCIRC 20-18 (70 W, 115V, 8 GPM, 20 FT HEAD)	LAWLER #802	ASME RATED

FIXTURE SCHEDULE

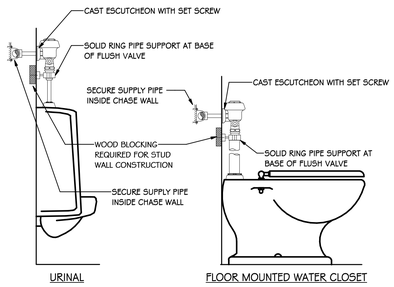
TAG	FIXTURE	H.W.	C.W.	WASTE	TRAP	GAS	MTD. HEIGHT
P-1	WATER CLOSET (FLOOR MTD, ADA) (A)	-	1-1/4"	4"	-	-	-
P-2	WATER CLOSET (FLOOR MTD) (A)	-	1-1/4"	4"	-	-	-
P-3	WATER CLOSET (WALL MTD, ADA) (A)	-	1-1/4"	4"	-	-	SEE "A" DWGS
P-4	URINAL	-	3/4"	2"	-	-	SEE "A" DWGS
P-5	URINAL (ADA)	-	3/4"	2"	-	-	SEE "A" DWGS
P-6	LAVATORY (WALL MTD, ADA, CW ONLY)	-	1/2"	2"	1-1/4"	-	SEE "A" DWGS
P-7	LAVATORY (WALL MTD, ADA, CW & HW)	1/2"	1/2"	2"	1-1/4"	-	SEE "A" DWGS
P-8	WORKROOM SINK	1/2"	1/2"	2"	1-1/2"	-	COUNTERTOP, SEE "A" DWGS
P-9	SINK	1/2"	1/2"	2"	1-1/2"	-	COUNTERTOP, SEE "A" DWGS
P-10	NURSE SHOWER	1/2"	1/2"	2"	2"	-	SEE "A" DWGS FOR SHOWER HEAD HEIGHT
P-11	ELEC WATER COOLER (ADA)	-	1/2"	2"	1-1/4"	-	SEE "A" DWGS
P-12	ELEC WATER COOLER (ADA, BOTTLE FILL)	-	1/2"	2"	1-1/4"	-	SEE "A" DWGS
P-13	JANITORS BASIN	1/2"	1/2"	3"	3"	-	-
P-14	EMERGENCY SHOWER (B)	1"	1-1/4"	2"	1-1/4"	-	-
P-15	PERIMETER LAB SINK (C)	1/2"	1/2"	2"	1-1/2"	-	COUNTERTOP, SEE "A" DWGS
P-16	INSTRUCTOR LAB SINK (GAS) (C)	1/2"	1/2"	2"	1-1/2"	1/2"	COUNTERTOP, SEE "A" DWGS
P-17	STUDENT LAB SINK (GAS) (C)	-	1/2"	2"	1-1/2"	1/2"	COUNTERTOP, SEE "A" DWGS
P-18	INSTRUCTOR LAB SINK (NO GAS) (C)	1/2"	1/2"	2"	1-1/2"	-	COUNTERTOP, SEE "A" DWGS
P-19	STUDENT LAB SINK (NO GAS) (C)	-	1/2"	2"	1-1/2"	-	COUNTERTOP, SEE "A" DWGS
P-20	LAB FUME HOOD (C)	-	1/2"	2"	-	3/4"	SEE "A" DWGS

FIXTURE NOTES:

(A) WATER CLOSET FLUSH VALVE HANDLES SHALL BE ON RIGHT OR LEFT SIDE, TO MATCH THE WIDE SIDE OF THE HANDICAPPED STALL.

(B) PROVIDE WITH HOT WATER MIXING VALVE. CONNECT EYEWASH DRAIN TO ROUGH-IN INSIDE WALL

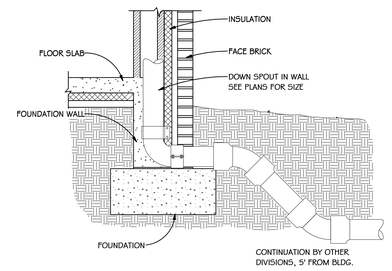
(C) LAB FIXTURES PROVIDED BY OTHERS. PLUMBER TO MAKE FINAL CONNECTIONS. SEE LAB EQUIPMENT CUT SHEETS FOR EXACT LOCATIONS.



NOTE: HANDICAPPED WATER CLOSET FLUSH VALVE LEVER HANDLE SHALL BE ON THE WIDE SIDE OF THE STALL

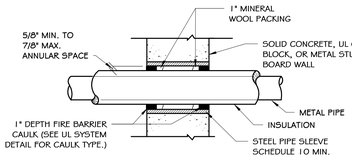
FLUSH VALVE ANCHOR DETAIL

NO SCALE



STORM DRAIN AT FOUNDATION

NO SCALE



APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS 5/8". MAXIMUM ANNULAR SPACE ALLOWABLE IS 7/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF FIRE BARRIER CAULK. (SEE UL SYSTEM DETAIL FOR CAULK TYPE.)

NOTE: FOR PIPE INSULATED WITH RUBBER BASED FLEXIBLE INSULATION, INSTALL A FIBERGLASS INSERT AT THE FIRE WALL PENETRATION IN LIEU OF THE FLEXIBLE RUBBER INSULATION. (THE FIBERGLASS INSERT SHALL BE THE SAME THICKNESS AS THE RUBBER BASED INSULATION.) THE FIBERGLASS INSERT SHALL EXTEND 6" (MIN.) ON EACH SIDE OF FIRE WALL.

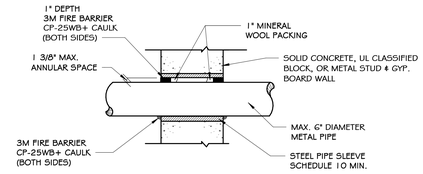
INSULATED PIPE (1, 2, 3 OR 4 HR)

UL SYSTEM #CBJ5002

(FOR PIPING LARGER THAN 6" USE UL SYSTEM #CBJ5003)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE



APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS ZERO, POINT CONTACT. MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF 3M FIRE BARRIER CP-25WB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)

(UL SYSTEM #CAJ1044)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
100 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

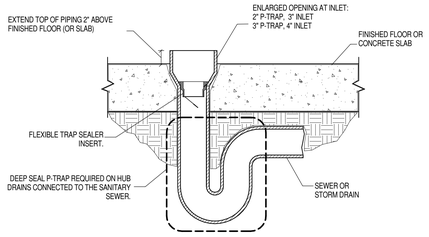
PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:

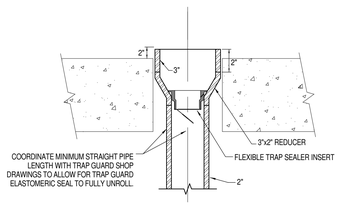
PLUMBING SCHEDULES & DETAILS

SHEET NO. P201

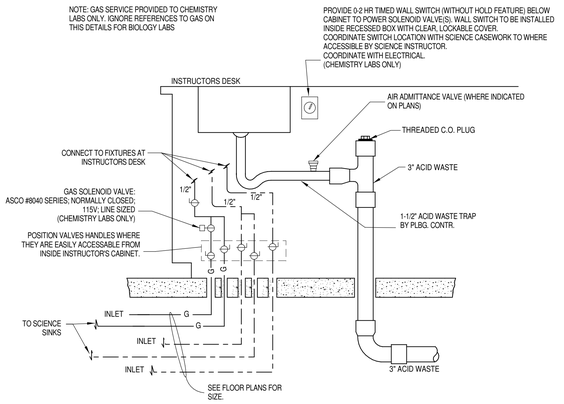
CBE PROJ. NO. 2037



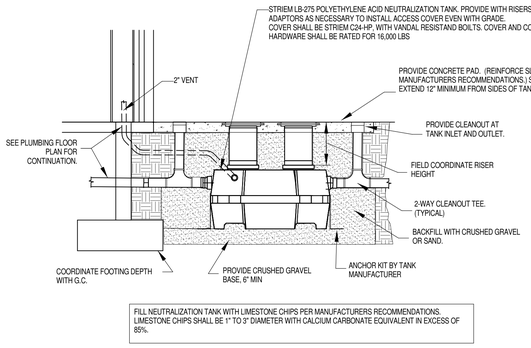
HUB DRAIN DETAIL
NO SCALE



HUB DRAIN TRAP SEALER INSERT DETAIL
NO SCALE

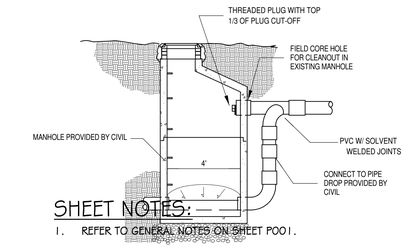


PIPE SCHEMATIC AT INSTRUCTOR'S DESK
NO SCALE



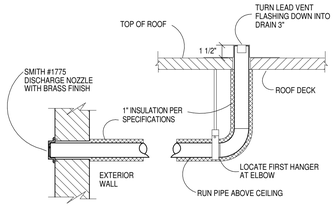
FILL NEUTRALIZATION TANK WITH LIMESTONE CHIPS PER MANUFACTURERS RECOMMENDATIONS. LIMESTONE CHIPS SHALL BE 1" TO 3" DIAMETER WITH CALCIUM CARBONATE EQUIVALENT IN EXCESS OF 85%.

ACID NEUTRALIZATION TANK
NO SCALE

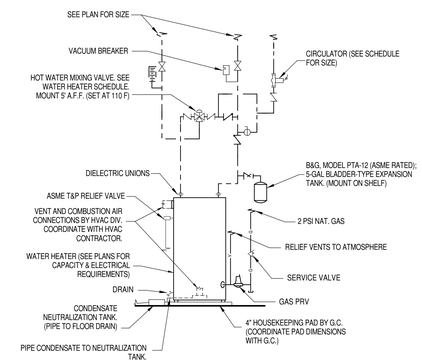


SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET P001.

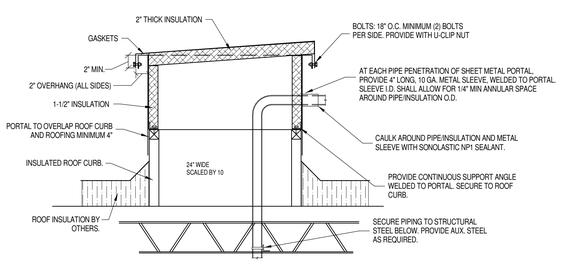
DROP MANHOLE DETAIL
NO SCALE



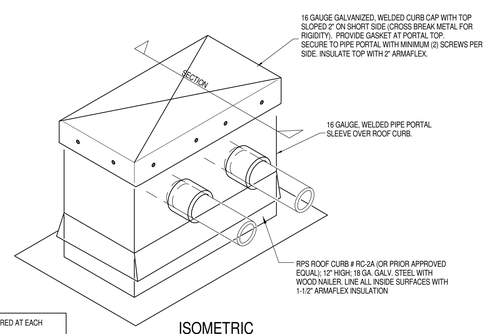
OVERFLOW SCUPPER DETAIL
NO SCALE



WATER HEATER DETAIL
NO SCALE



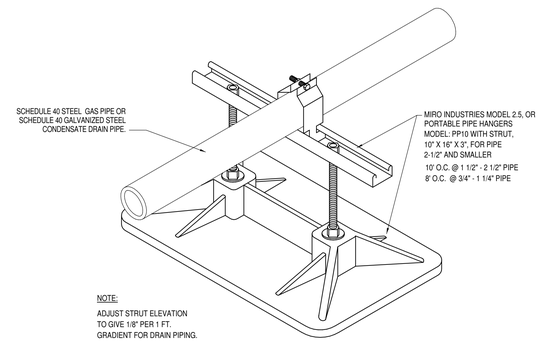
SECTION



ISOMETRIC

NOTES:
- SEE FLOOR PLANS FOR PORTAL SIZE AND NUMBER OF PIPE PENETRATIONS REQUIRED AT EACH PORTAL.
- COORDINATE LOCATIONS FOR POWER/CONTROLS CONDUIT OPENINGS WITH ELECTRICAL AND CONTROLS CONTRACTORS.
- ELECTRICAL AND CONTROLS CONDUIT MAY PENETRATE PIPE PORTAL USING A LIQUIDTIGHT FITTING IN LIEU OF 10 GAUGE METAL SLEEVE.
- ALL WELDS SHALL BE COATED WITH A GALVANIZED FINISH.

ROOF PIPE PENETRATION DETAIL
NO SCALE



NOTE:
ADJUST STRUT ELEVATION TO GIVE 1/8" PER 1 FT. GRADIENT FOR DRAIN PIPING.

ROOF PIPE SUPPORT DETAIL
NO SCALE

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	STB

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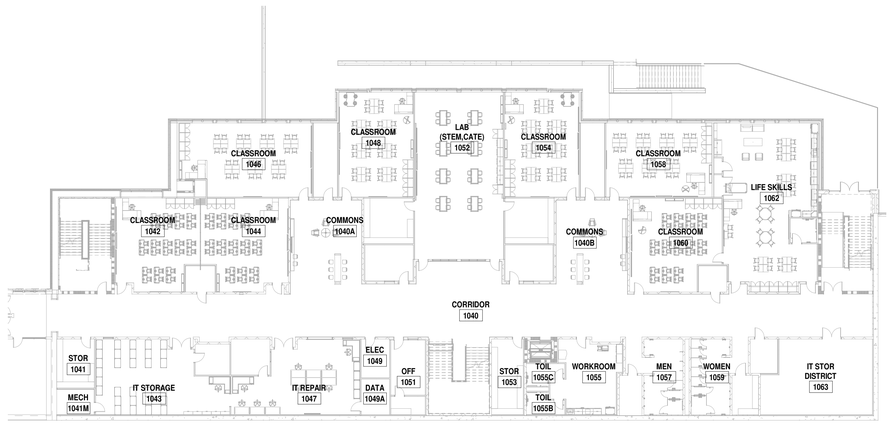
FOR PRICING ONLY

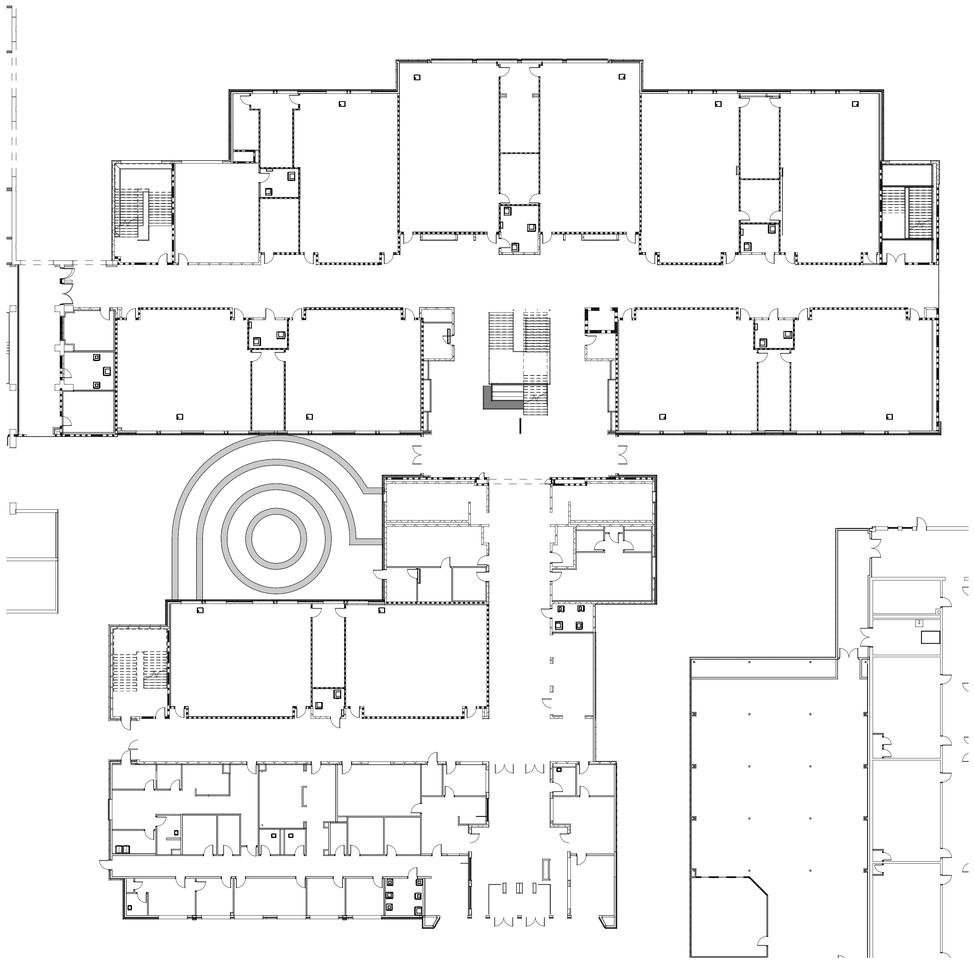
PRINCIPAL IN CHARGE: STB
PROJECT ENGINEER: STB
DRAWN BY: HFC

SHEET TITLE:
PLUMBING DETAILS

SHEET NO. P202
CBE PROJ. NO. 2037



1000 LEVEL OVERALL PLAN



1100 LEVEL OVERALL PLAN

SYMBOLS:

HPS	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
D	DRAIN
G	GAS
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	BALL VALVE (2" AND SMALLER)
	CONTROL VALVE
	BUTTERFLY VALVE (2-1/2" AND LARGER)
	REDUCER
	UNION
	GAUGE COCK
	PRESSURE GAUGE
	THERMOMETER WITH WELL
T	THERMOSTAT
H	HUMIDISTAT
C	CO_2 SENSOR
	SUPPLY AIR (S.A.)
	RETURN AIR (R.A.)
E	EXHAUST AIR
R	RELIEF AIR
AD	ACCESS DOOR
FD	FIRE DAMPER
V	VENT
	STRAINER
	CIRCUIT SETTER
TP	TEMP/PRESS SENSING PORT
R	REFRIGERANT LINES
M	MOTORIZED DAMPER
	TRIPLE DUTY VALVE
	PRESSURE REDUCING VALVE
	FLEXIBLE COUPLING
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
A	AUTO FLOW VALVE
SD	SMOKE DAMPER
DP	DIFFERENTIAL PRESS. SENSOR
SP	STATIC PRESSURE SENSOR
HB	HOSE BIBB
O/H	OVERHEAD
U/G	UNDERGROUND
VD	VOLUME DAMPER
CO	CLEAN OUT
	DUAL WALL SPIRAL DUCTWORK
	SINGLE WALL SPIRAL DUCTWORK
	FABRIC DUCTWORK (SEE SPECIFICATIONS)
	DUCTWORK WITH SOUND TREATMENT WRAP (SEE SPECIFICATIONS.)

GENERAL NOTES:

1. PROVIDE ACCESS DOORS AT EACH MOTORIZED DAMPER AND EACH FIRE DAMPER NOT ACCESSIBLE FROM A GRILLE; SEE SPECS FOR SIZE.
2. WHERE DUCTS CONNECT TO TOP OF CHASE: SEAL AIR TIGHT
3. PIPE CONDENSATE DRAINS TO NEAREST FLOOR DRAIN OR HUB DRAIN.
4. PROVIDE 27" MIN CLEARANCE AT FILTER HOUSINGS FOR FILTER REMOVAL
5. SEE ARCH. DWGS FOR EXACT LOUVER AND BRICK VENT LOCATIONS.
6. SLOPE ALL CONDENSATE LINES MIN. 1/8" PER FOOT.
7. MINIMUM BRANCH CONDENSATE LINE SIZE SHALL BE 1" UNLESS NOTED OTHERWISE ON PLANS.
8. PROTECT ALL FLOOR PENETRATIONS FOR 2 HR. MIN. FIRE RATING.
9. SEE ARCH. DWGS FOR EXACT SIDEWALL REGISTER AND GRILL ELEVATION & LOCATION.
10. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK AT END OF BRANCH DUCTWORK SHALL BE 5'-0" (SUPPLY DUCT SYSTEMS ONLY)
11. CONCRETE HOUSEKEEPING PADS SHALL BE BY OTHER DIVISIONS, SEE "A" DWGS.
12. WHERE HVAC PIPING IS INDICATED TO TERMINATE WITH A BLIND FLANGE. PROVIDE A HOSE BIB IN THE BLIND FLANGE. (HOSE BIB IS TO BE USED TO CROSS-CONNECT PIPING FOR CIRCULATION DURING CHEMICAL TREATMENT.)
13. DUCTWORK COORDINATION:
    - FIELD COORDINATE ROUTING OF DUCTWORK PRIOR TO DUCTWORK FABRICATION.
    - WHERE DUCTWORK IS ROUTED THROUGH OR BETWEEN TRUSSES, CONSTRUCT DUCT SECTION LENGTHS TO ALLOW INSTALLATION IN TRUSSES.
    - COORDINATE DUCTWORK ROUTED THROUGH (OR BETWEEN) TRUSSES WITH STRUCTURAL ROOF TRUSS SHOP DRAWINGS. COORDINATE/VERIFY THAT INTERNAL MEMBERS OF NEW TRUSSES HAVE BEEN DESIGNED TO ALLOW FOR DUCT ROUTING. COORDINATE WITH G.C. WHERE EXISTING ROOF TRUSSES REQUIRE MODIFICATION TO ROUTE DUCTWORK.
14. CLEANOUTS FOR UNDERGROUND DRAIN PIPING OUTSIDE THE BUILDING SHALL BE A RECESSED PLUG IN A THREADED HUB, FLUSH IN A 18"X18"X4" OR 18" DIAMETER CONCRETE PAD. CONCRETE PAD SHALL BE FORMED AND POURED WITH TOP FLUSH WITH FINISH GRADE BY HVAC CONTRACTOR.
15. PROTECT ALL PENETRATIONS OF NON-FIRE RESISTANCE RATED ASSEMBLIES WITH AN APPROVED NON-COMBUSTIBLE MATERIAL TO RESIST THE PASSAGE OF FLAME AND SMOKE.
16. PIPE GAS RELIEF VENTS TO OUTSIDE:
    BOILERS & WATER HEATERS: (FOR EACH UNIT)
    RELIEF VALVES FULL SIZE (EA.); PRV VENT FULL SIZE (EA.); GAS TRAIN VENT SHALL BE SIZED AS FOLLOWS:

FUEL LINE DIA.	UP TO 1-1/2"	2"	2-1/2"	3"	4"	5"
VENT LINE DIA.	3/4"	1"	1-1/4"	1-1/4"	2"	2"

HVAC SHEET LIST

KEY PLAN

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

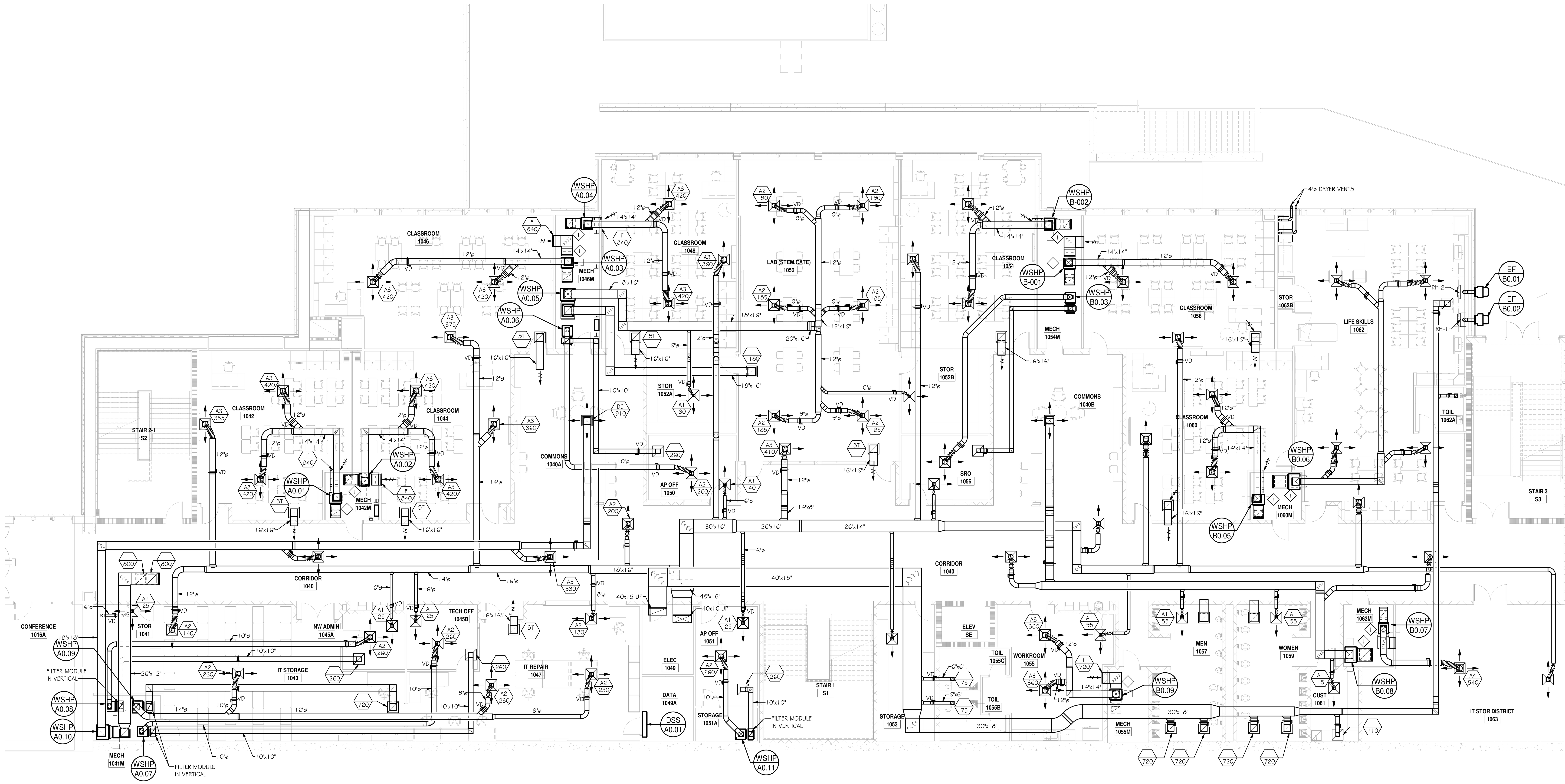
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
HVAC GENERAL NOTES AND SYMBOLS

SHEET NO. M001

PROJ. NO. 2037



1000 LEVEL HVAC PLAN

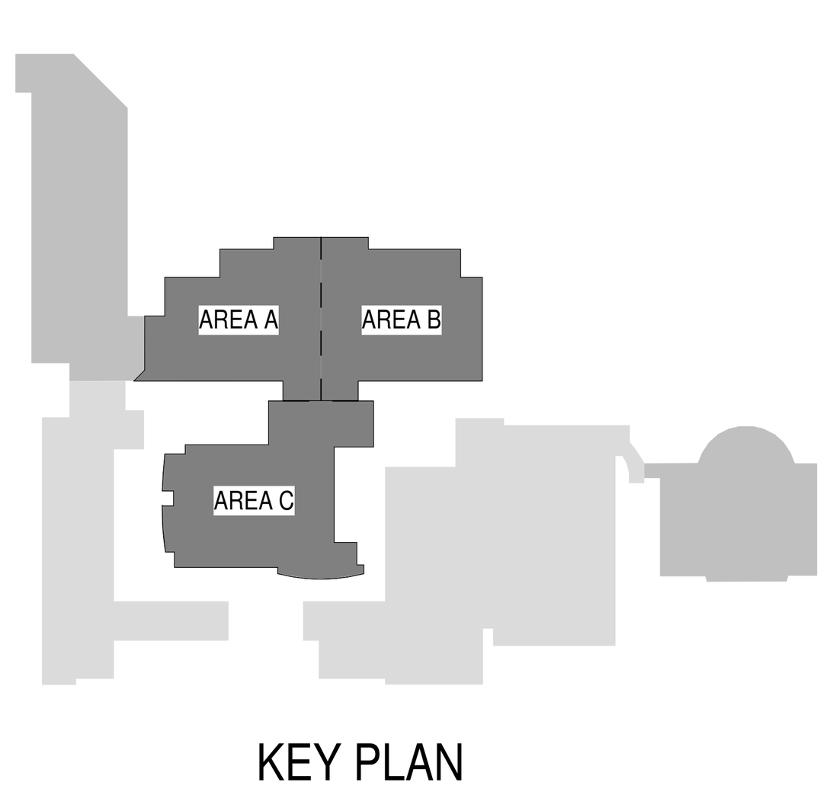
1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.



KEY PLAN

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pazdan
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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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GMP SET 06/01/22

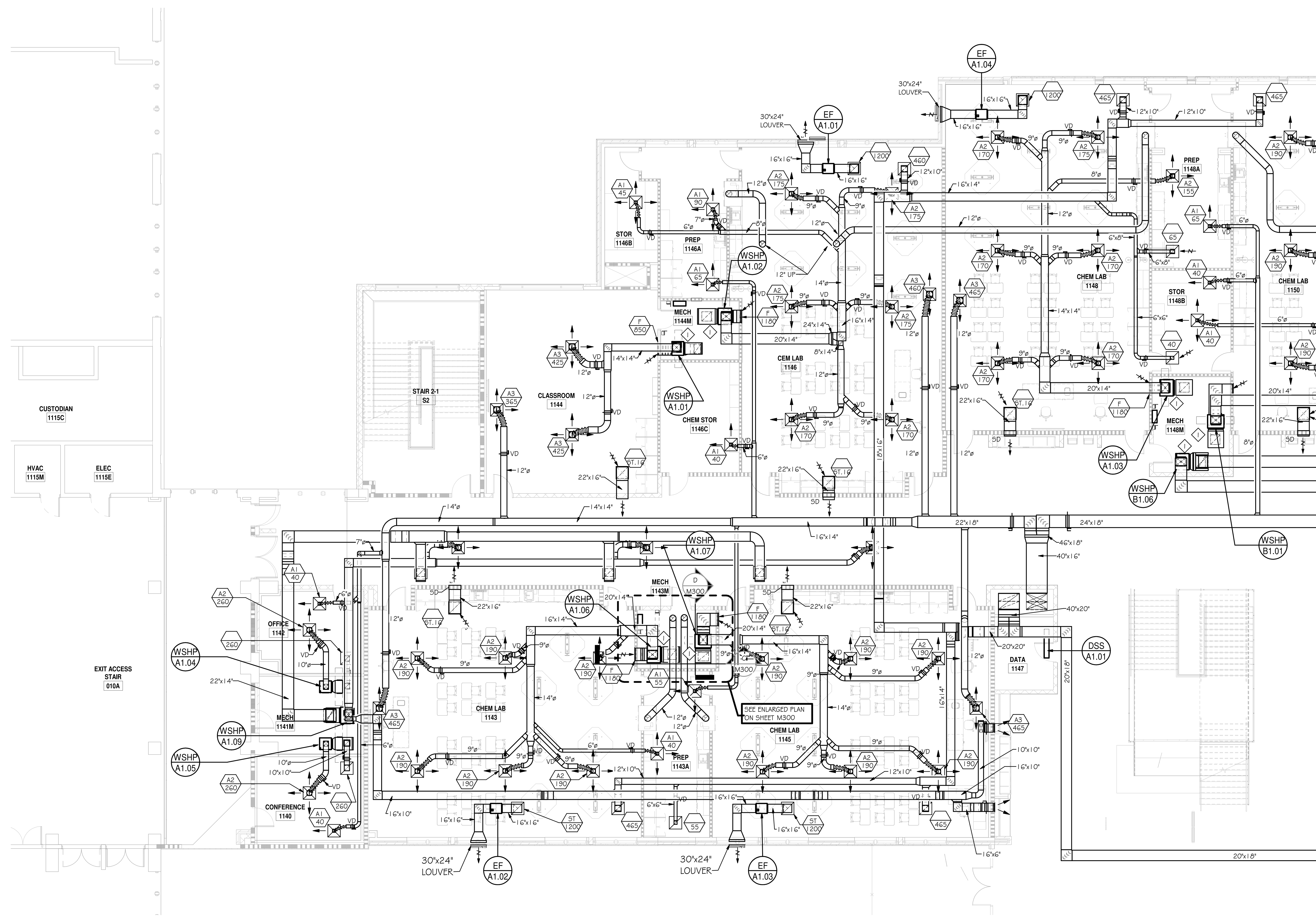
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:

HVAC - LEVEL 1000
FLOOR PLAN PH 2

SHEET NO. PROJ. NO. 2037

M101



1100 LEVEL HVAC PLAN PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.

KEY PLAN

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2

150 E. MAIN STREET DUNCAN, SC 29334

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GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ARCHITECT: STB
DRAWN BY: AYP

SHEET TITLE:

HVAC - LEVEL 1100 - AREA 'A' FLOOR PLAN PH 2

SHEET NO. PROJ. NO. 2037

M102

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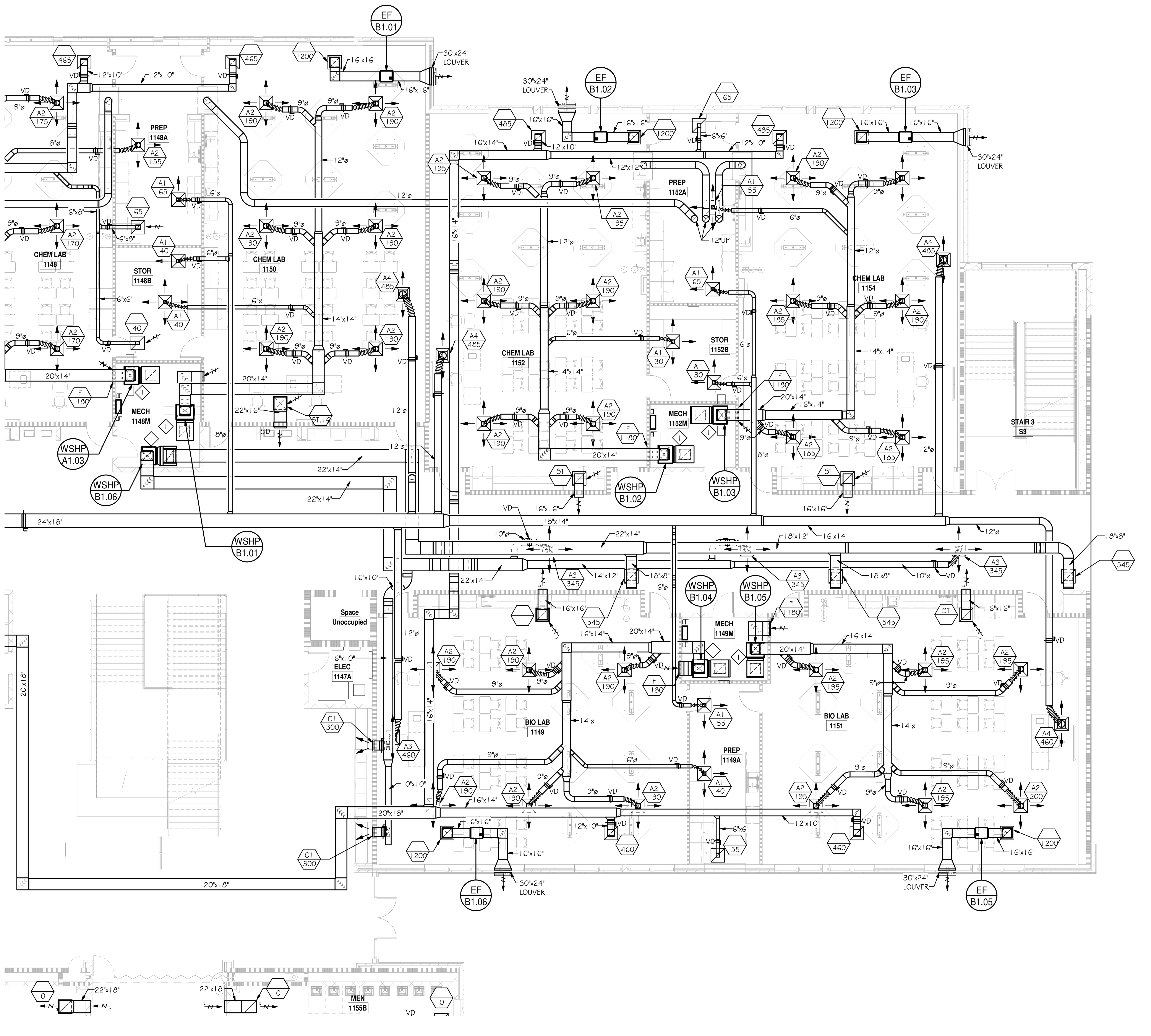
SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2
150 E. MAIN STREET
DUNCAN, SC 29334



1100 LEVEL HVAC PLAN PLAN - AREA 'B'
1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.

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KEY PLAN

SHEET ISSUE:

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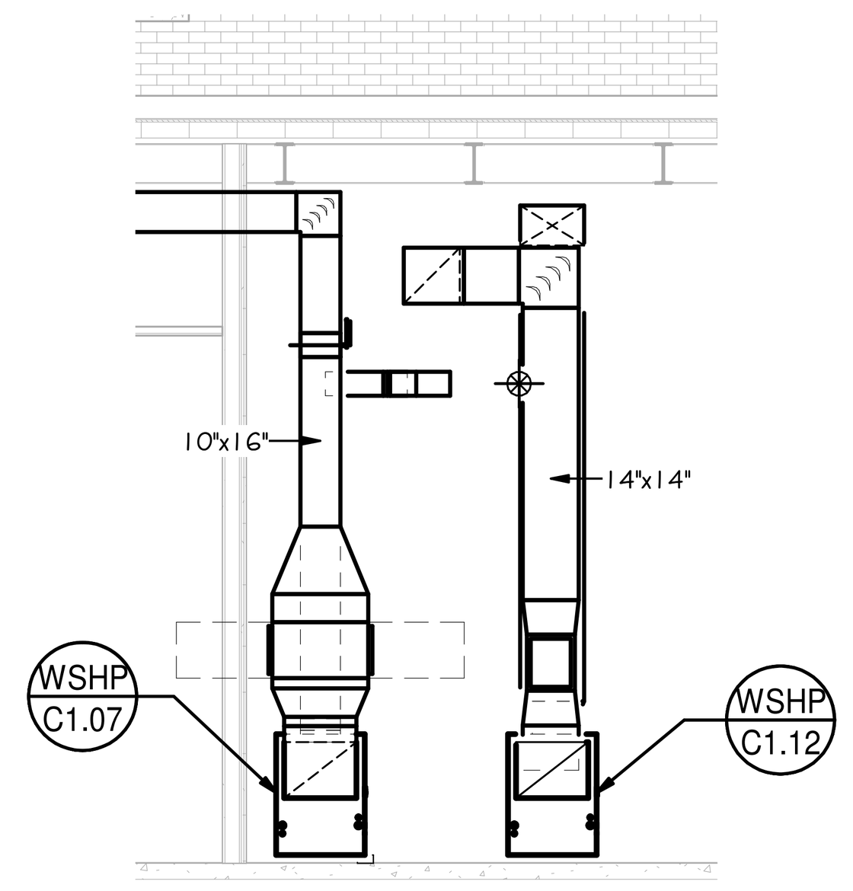
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

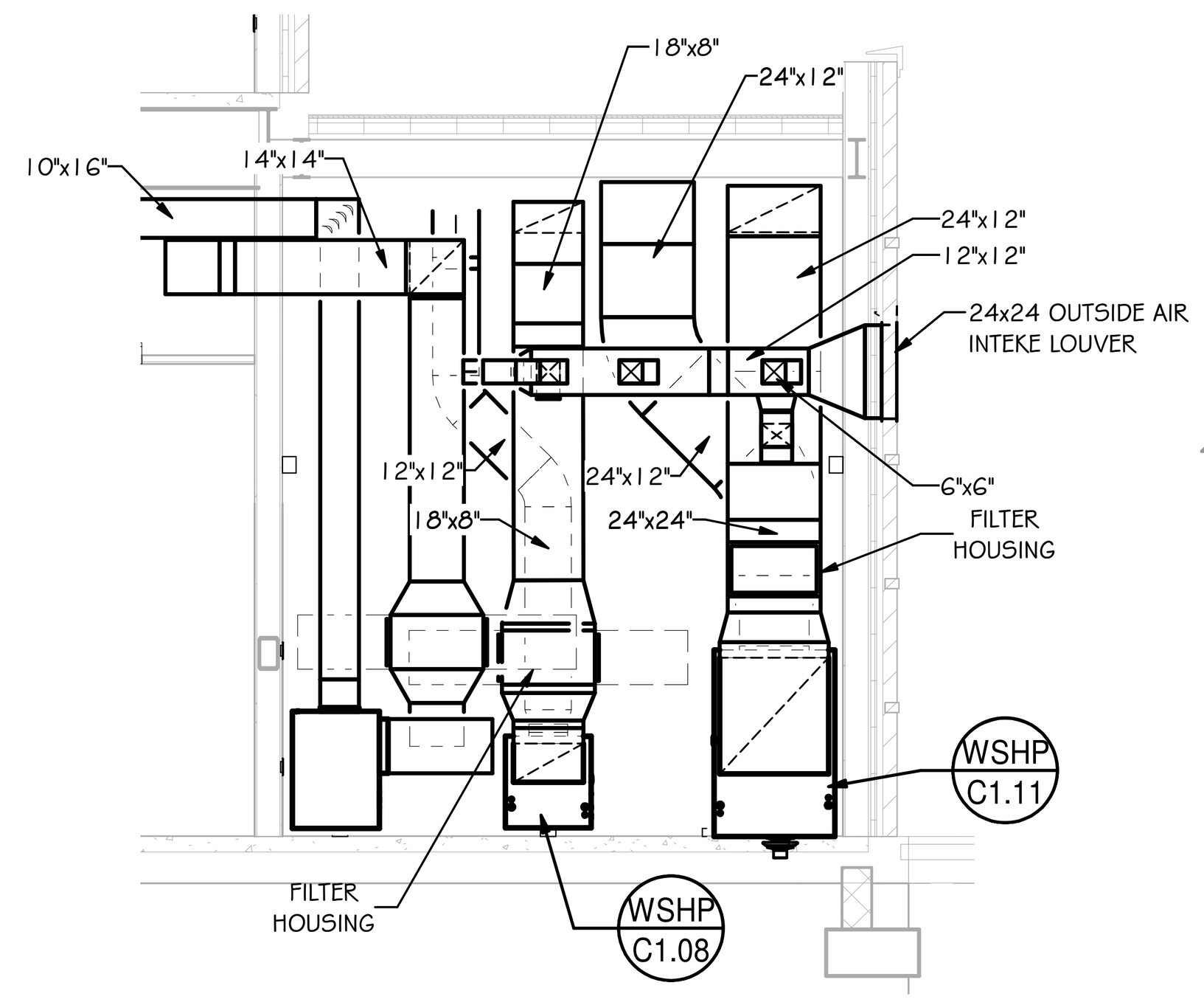
PRINCIPAL IN CHARGE: STB
PROJECT ARCHITECT: STB
DRAWN BY: AYP

SHEET TITLE:
HVAC - LEVEL 1100 - AREA 'B' FLOOR PLAN PH 2

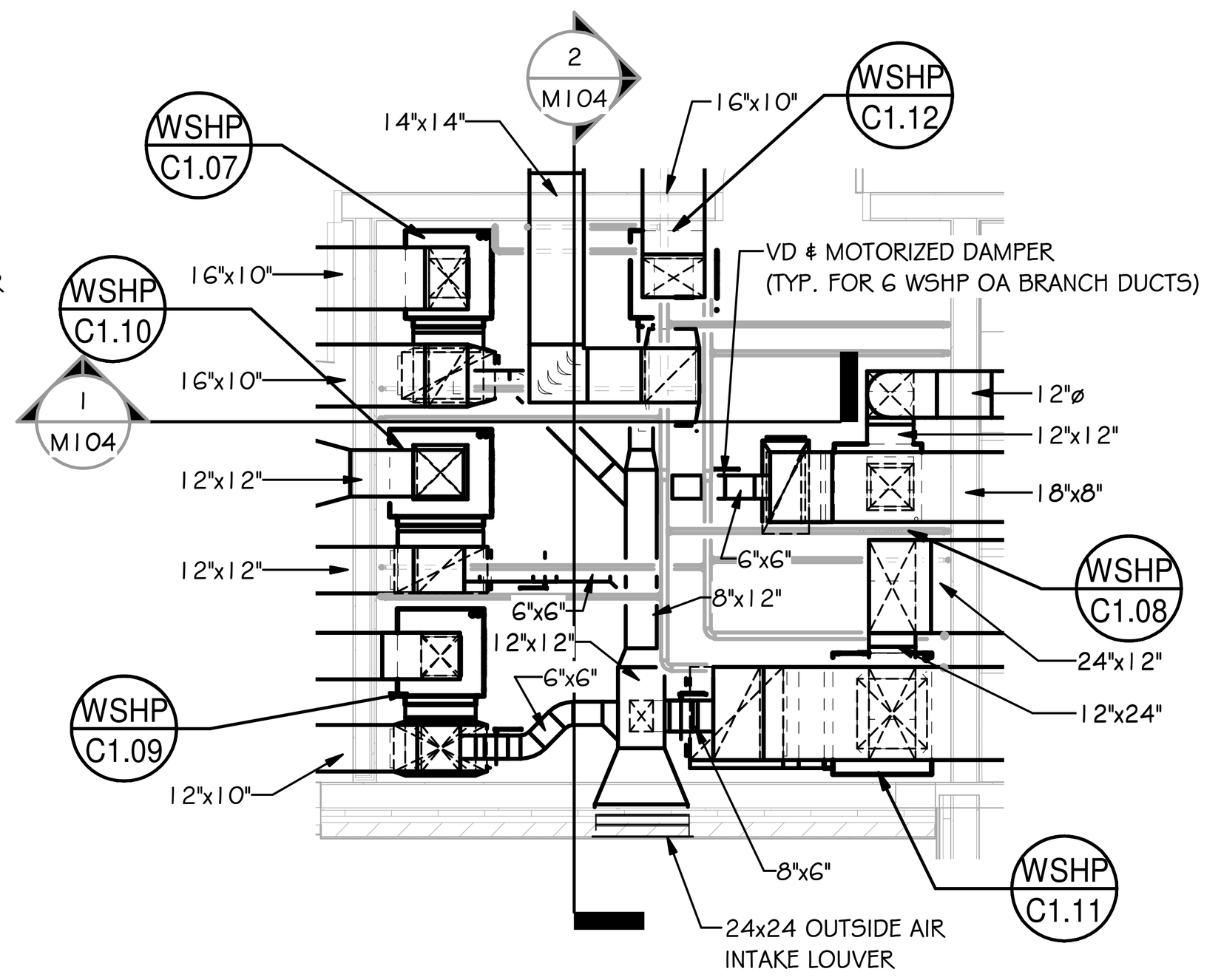
SHEET NO. M103
PROJ. NO. 2037



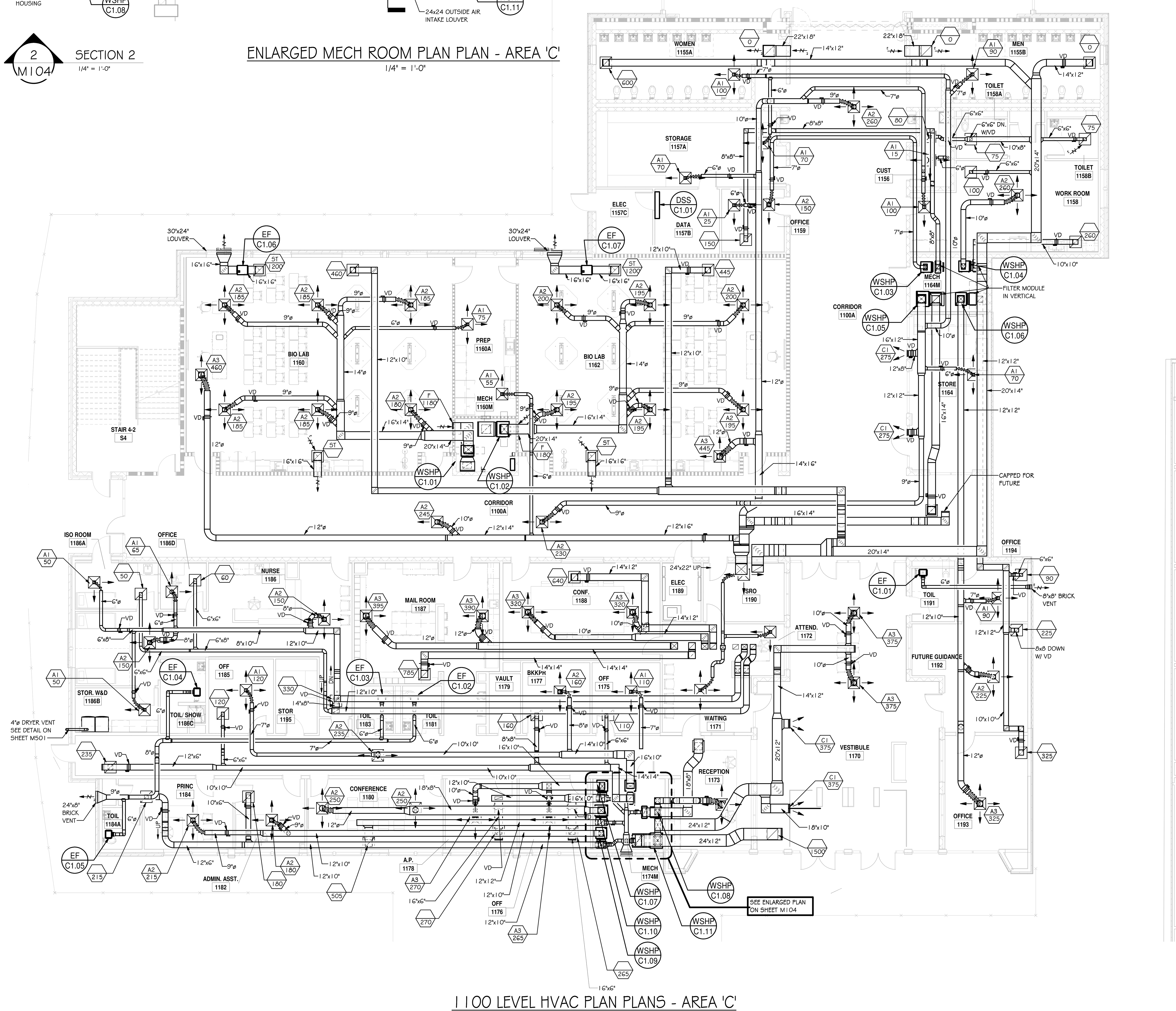
SECTION 1
1/4" = 1'-0"
1 M104



SECTION 2
1/4" = 1'-0"
2 M104



ENLARGED MECH ROOM PLAN PLAN - AREA 'C'
1/4" = 1'-0"



1100 LEVEL HVAC PLAN PLANS - AREA 'C'
1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.

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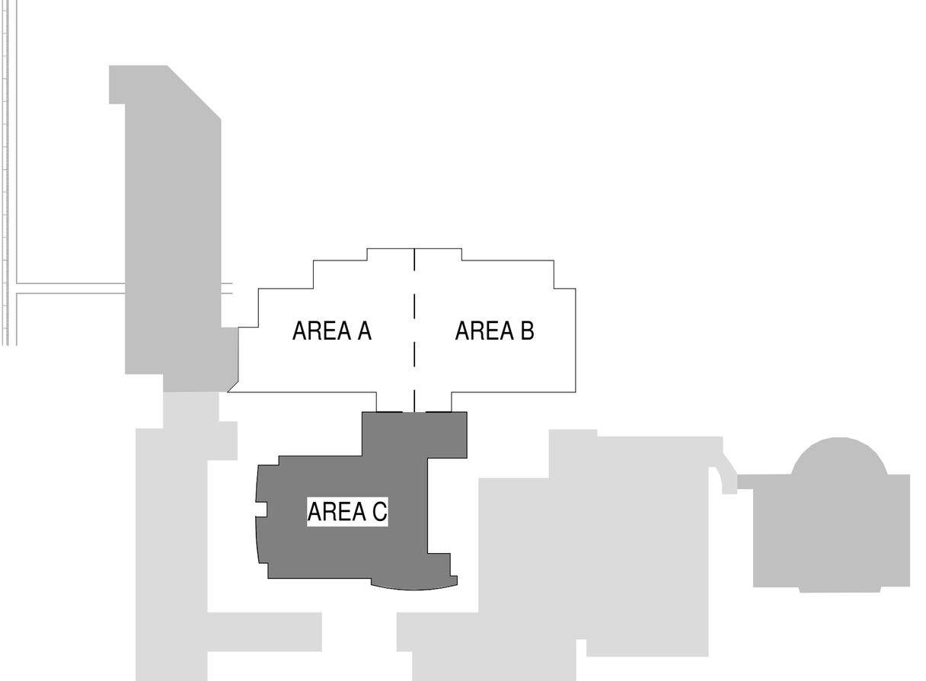
FOR PRICING ONLY



KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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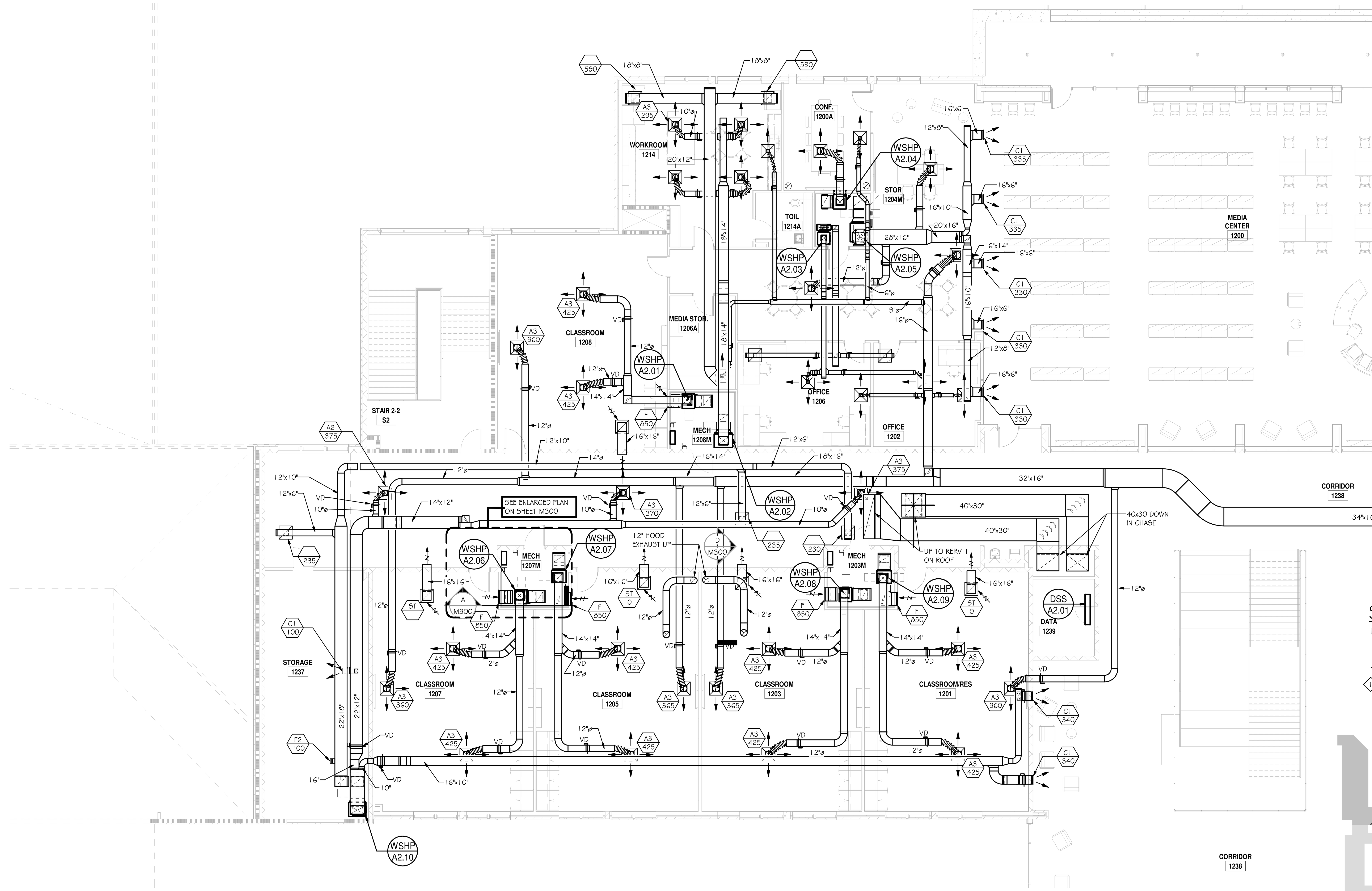
GMP SET 06/01/22

PRINCIPAL IN CHARGE: STB
PROJECT ARCHITECT: STB
DRAWN BY: AYP

SHEET TITLE:

HVAC - LEVEL 1100 - AREA 'C' FLOOR PLAN PH 2

SHEET NO. M104
PROJ. NO. 2037



1200 LEVEL HVAC PLAN - AREA 'A'

1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.

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KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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C	06/01/22	GMP SET	STB

GMP SET 06/01/22

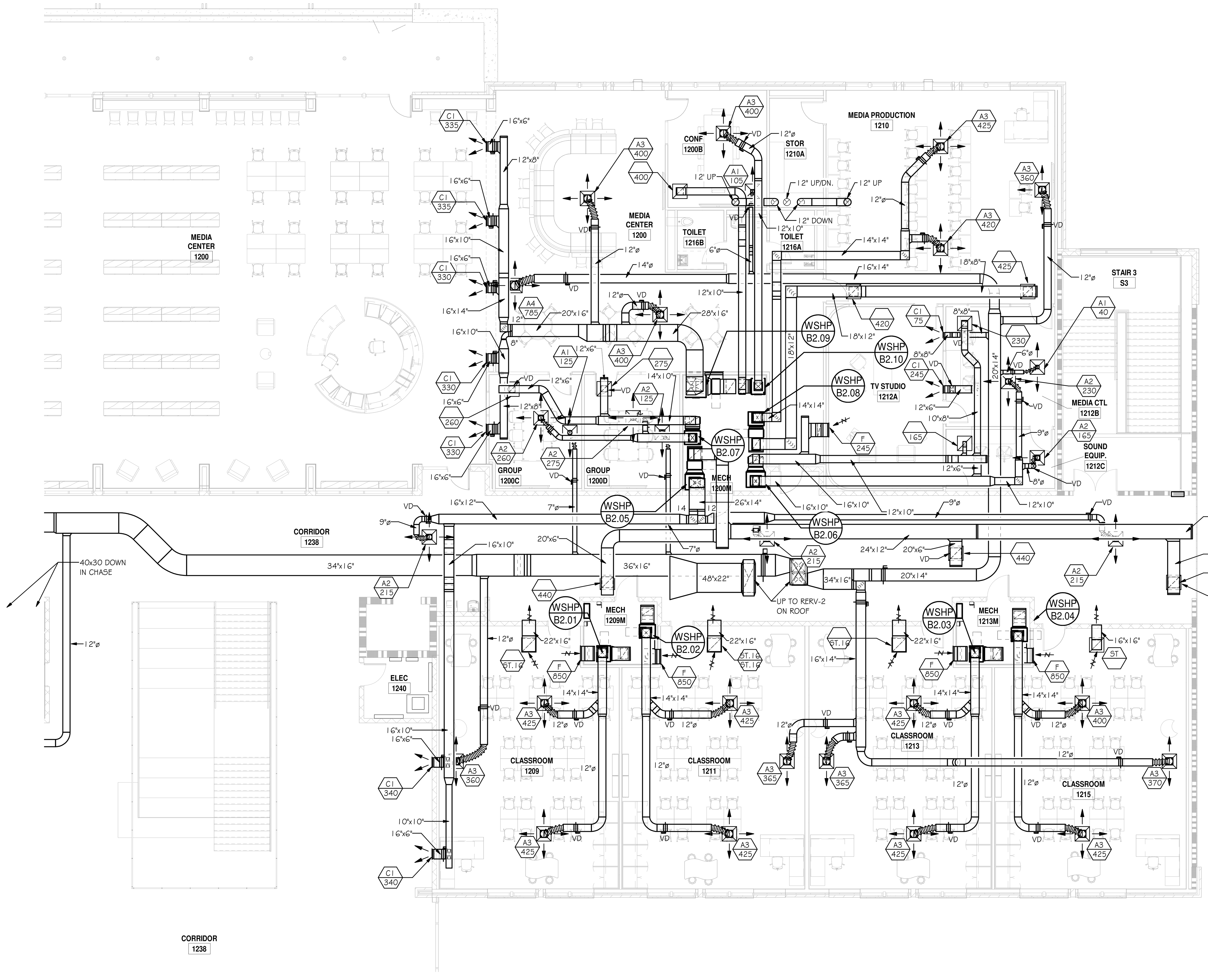
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:

HVAC - LEVEL 1200 - AREA 'A' FLOOR PLAN PH 2

SHEET NO. PROJ. NO. 2037

M105



1200 LEVEL HVAC PLAN - AREA 'B'

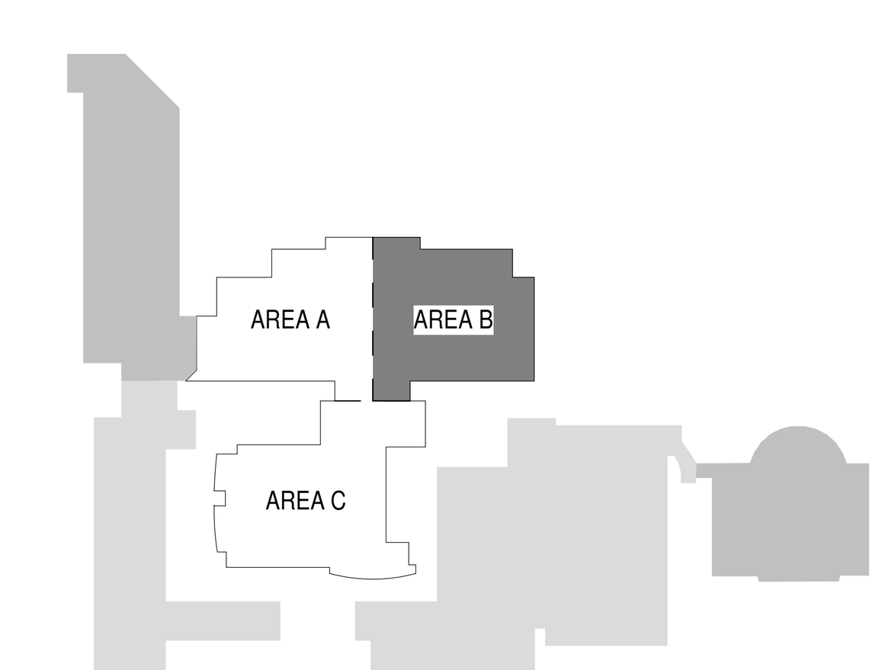
1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.



KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

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GMP SET 06/01/22

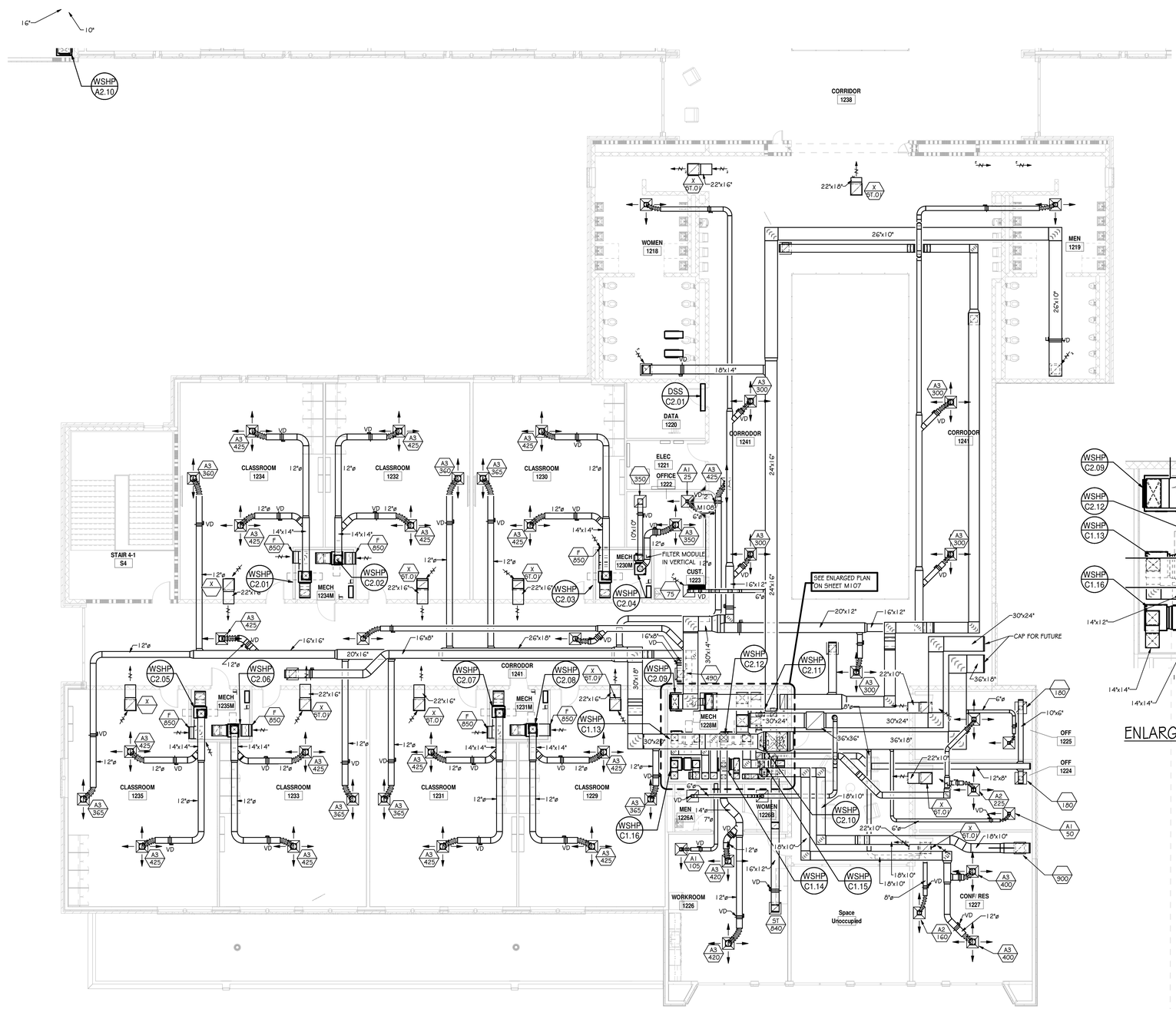
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:

HVAC - LEVEL 1200 - AREA 'B' FLOOR PLAN PH 2

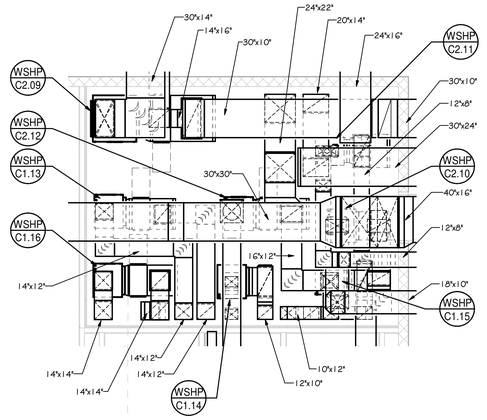
SHEET NO. PROJ. NO. 2037

M106



1200 LEVEL HVAC PLAN - AREA 'C'

1/8" = 1'-0"



ENLARGED MECH. EQUIP. RM. 1228M

1/4" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001

KEYED NOTES:

1. RETURN DUCT ROUTED UNDER UNIT WITH FILTER HOUSING. SEE DETAIL ON SHEET M300.

KEY PLAN

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ARCHITECTURE

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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DUNCAN, SC 29334

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GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

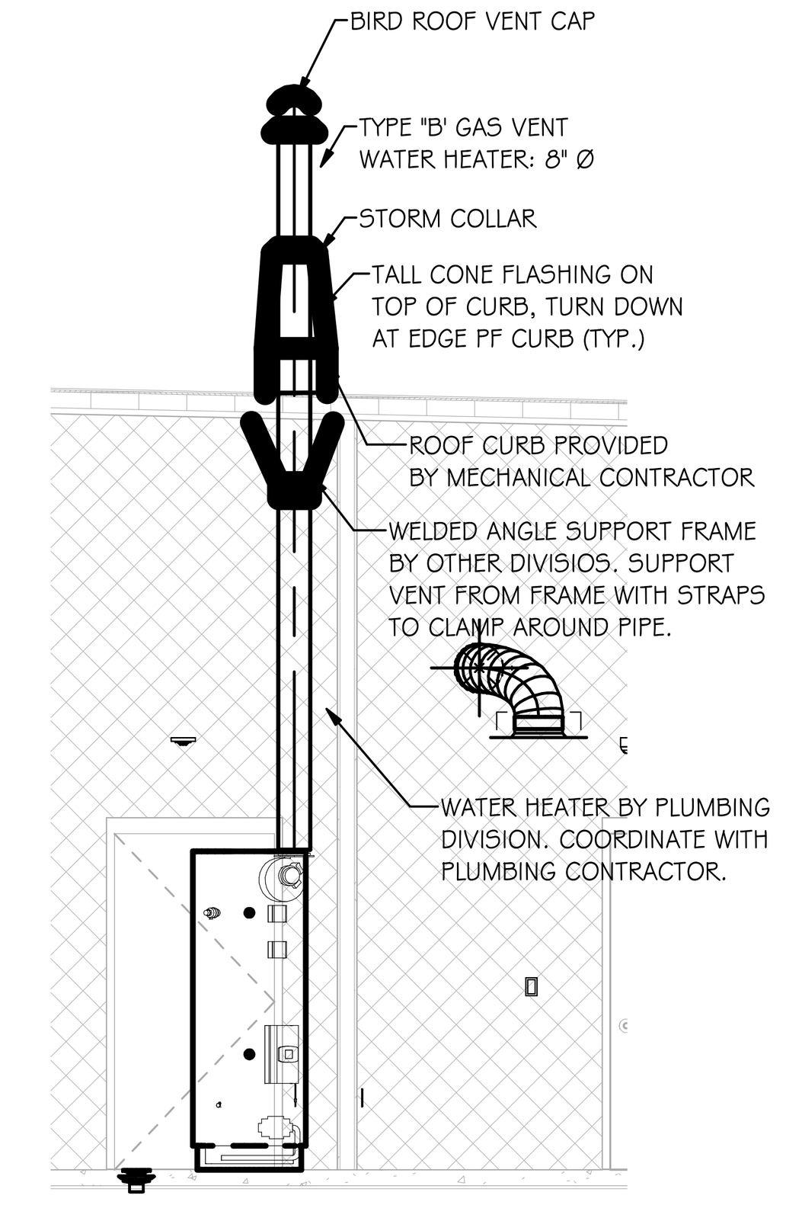
SHEET TITLE:

HVAC - LEVEL 1200 - AREA 'C' FLOOR PLAN PH 2

SHEET NO. M107

PROJ. NO. 2037

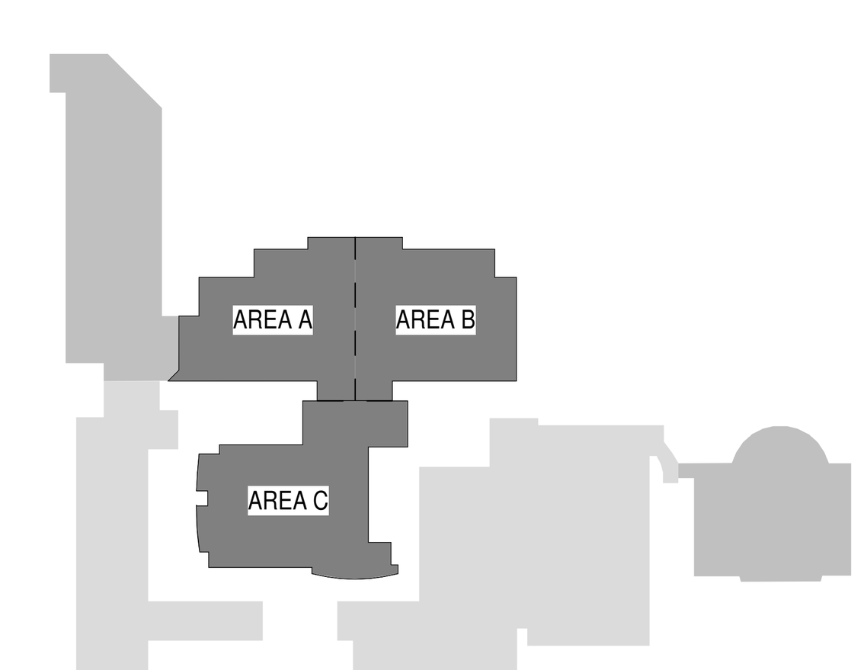
ROOF HVAC PLAN
3/32" = 1'-0"



WATER HEATER DETAIL
1/4" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M001



KEY PLAN

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ARCHITECTURE

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SEALS

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FOR PRICING ONLY

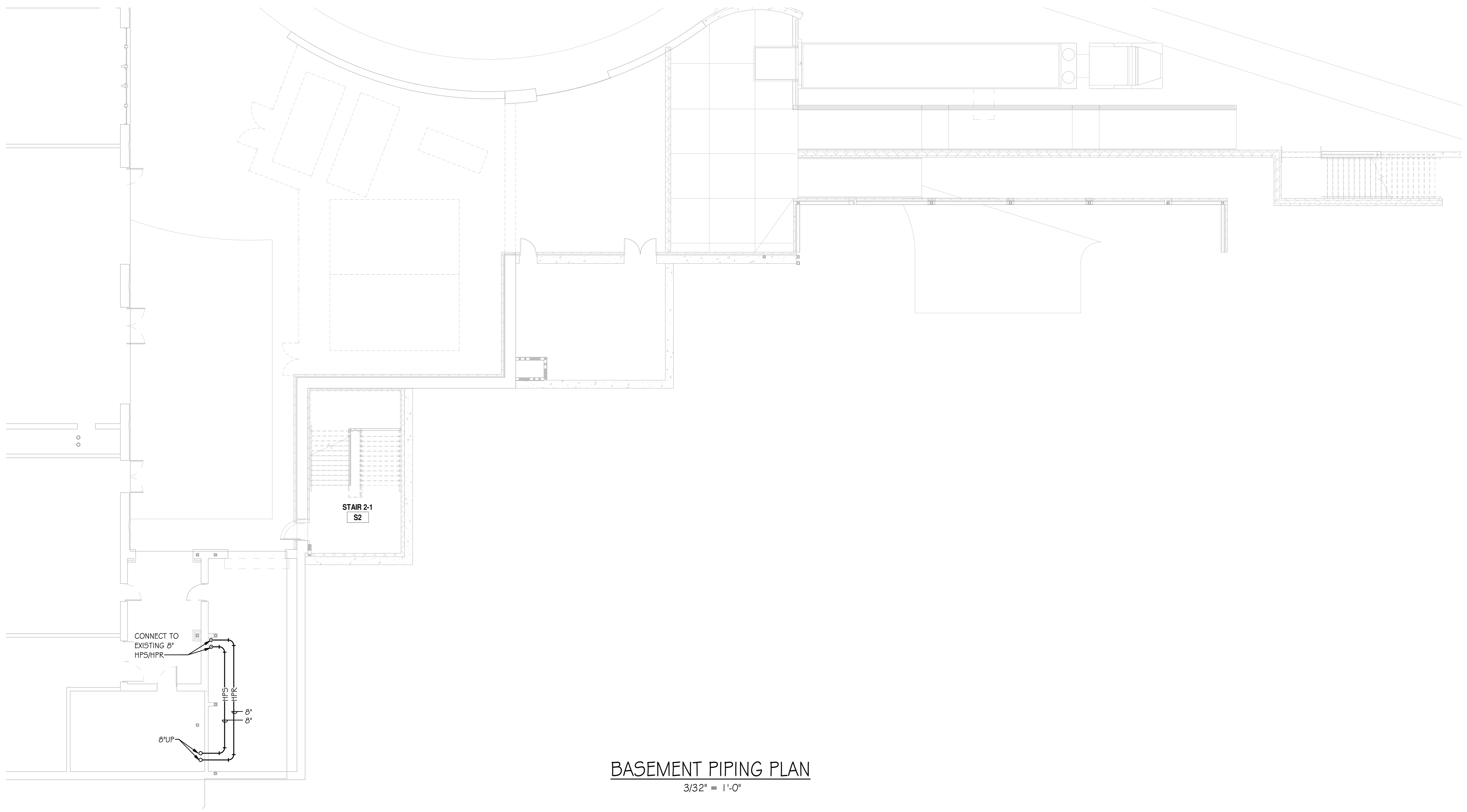
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
HVAC - ROOF PLAN - PHASE 2

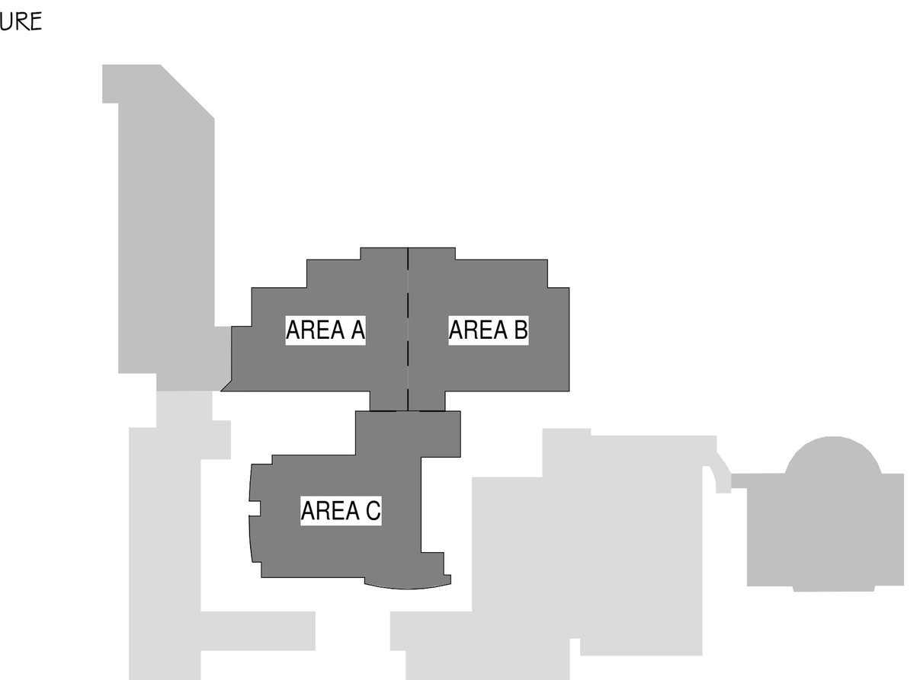
SHEET NO. M108

PROJ. NO. 2037



BASEMENT PIPING PLAN
3/32" = 1'-0"

1000 LEVEL PIPING PLAN
3/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION
FOR PRICING ONLY

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

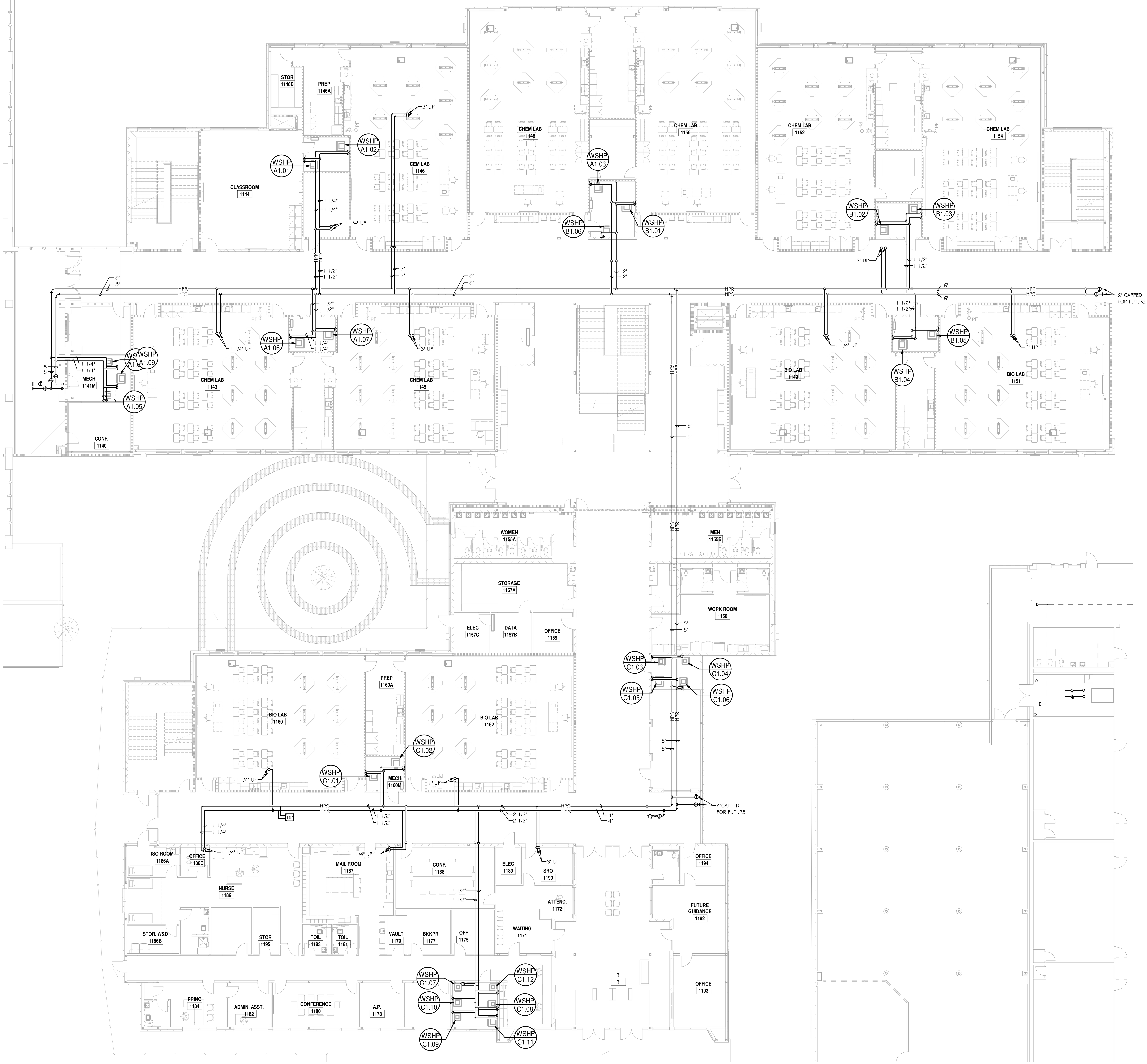
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
PIPING - LEVEL 1000
FLOOR PLAN PH 2

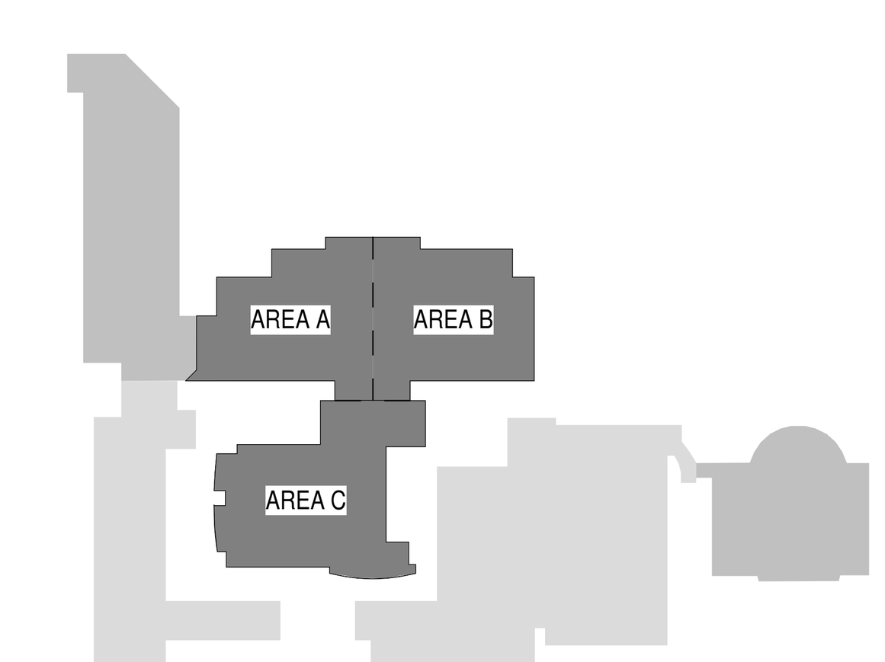
SHEET NO. M201

PROJ. NO. 2037



1100 LEVEL PIPING PLAN

3/32" = 1'-0"



KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

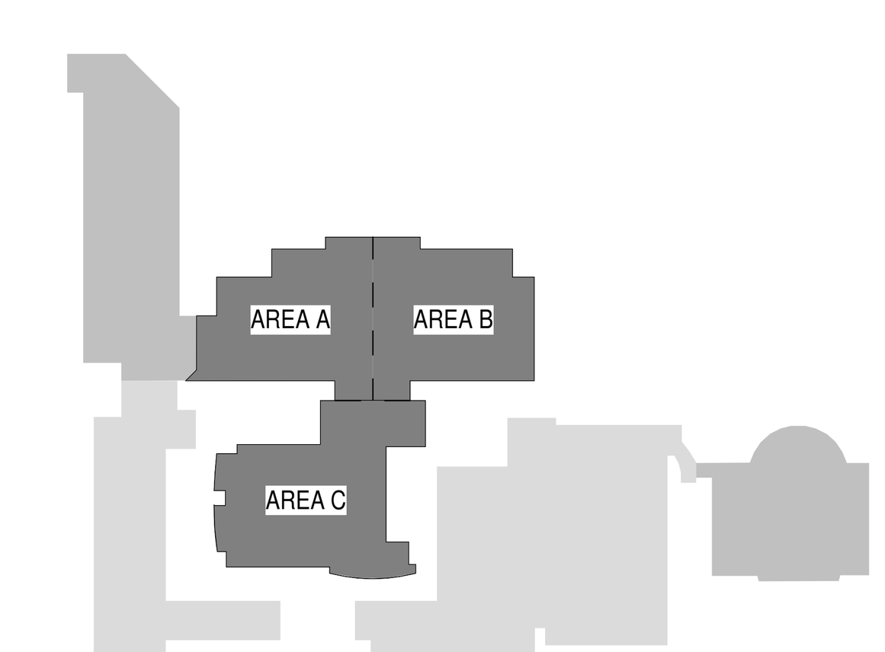
SHEET TITLE:

PIPING - LEVEL 1100 FLOOR PLAN PH 2

SHEET NO. PROJ. NO. 2037

M202

1200 LEVEL PIPING PLAN
3/32" = 1'-0"



KEY PLAN

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

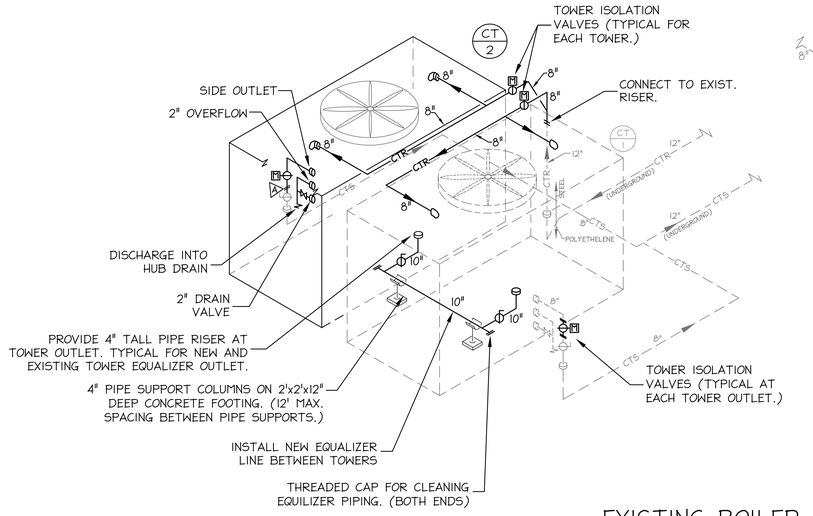
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:

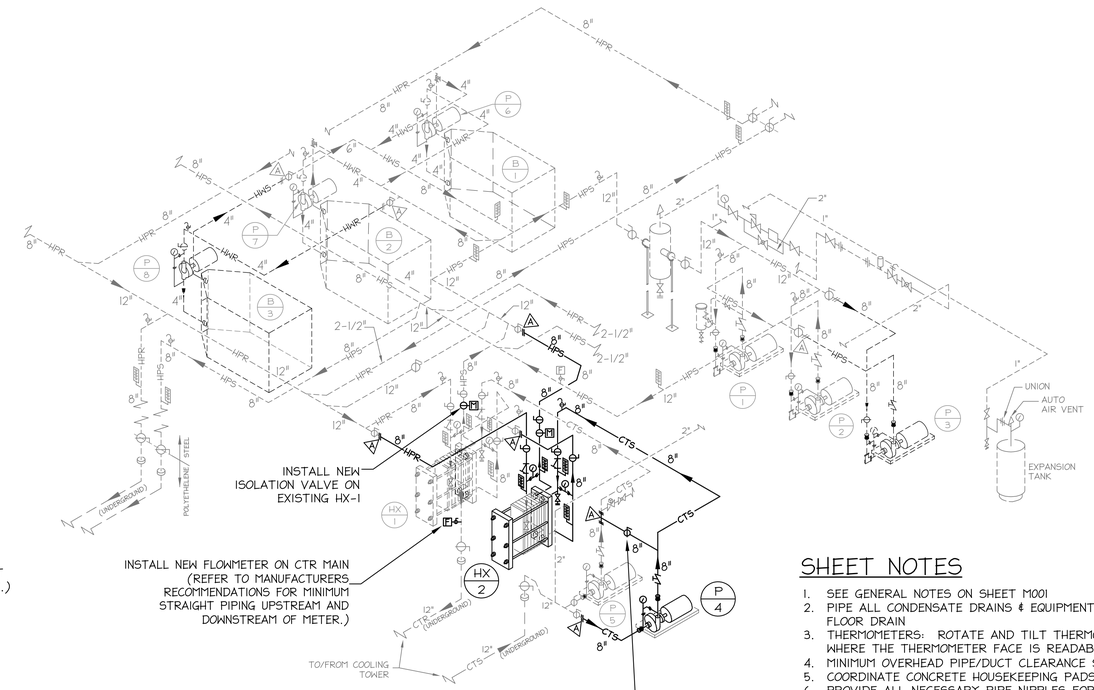
PIPING - LEVEL1200 - FLOOR PLAN PH 2

SHEET NO. M203

PROJ. NO. 2037



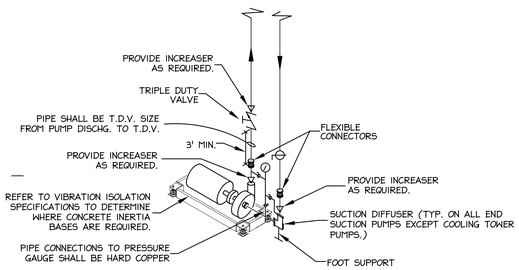
EXISTING BOILER ROOM ISOMETRIC
(ALTERNATE #1)
NO SCALE



SHEET NOTES

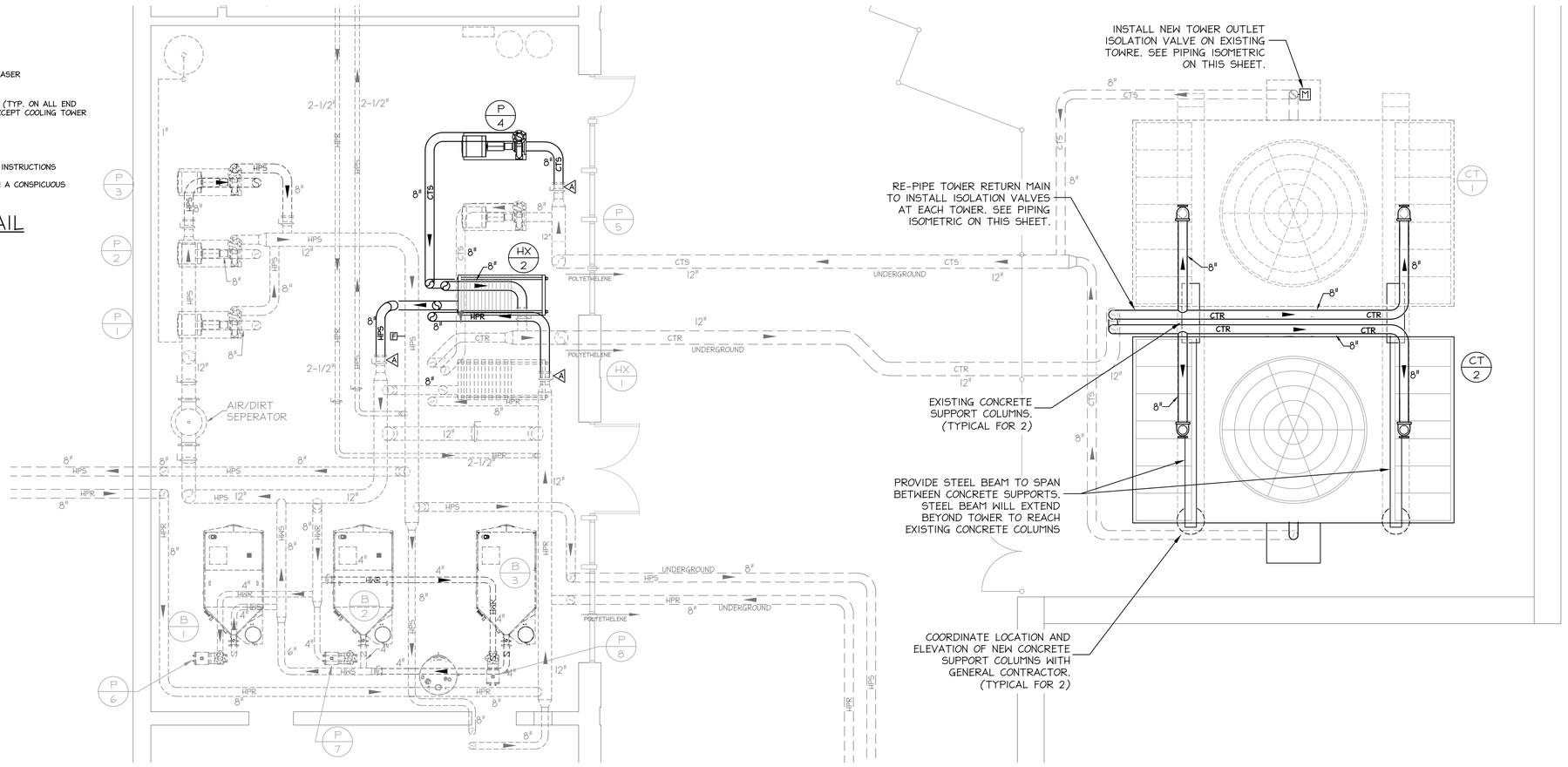
1. SEE GENERAL NOTES ON SHEET M001
2. PIPE ALL CONDENSATE DRAINS & EQUIPMENT DRAINS TO NEAREST FLOOR DRAIN
3. THERMOMETERS: ROTATE AND TILT THERMOMETERS IN PIPING TO WHERE THE THERMOMETER FACE IS READABLE FROM FLOOR LEVEL.
4. MINIMUM OVERHEAD PIPE/DUCT CLEARANCE SHALL BE 7'-6"
5. COORDINATE CONCRETE HOUSEKEEPING PADS LOCATIONS WITH THE G.C.
6. PROVIDE ALL NECESSARY PIPE NIPPLES FOR CONNECTIONS TO ACCOMMODATE THE CHEMICAL TREATMENT HARDWARE.
7. PIPE PUMP DRAIN PANS TO FLOOR DRAIN.

A CONNECT TO EXISTING PIPING



NOTES:
- LEVEL AND GROUT PUMP ACCORDING TO MANUFACTURER'S INSTRUCTIONS BEFORE ALIGNMENT AND START-UP.
- AFTER START-UP, REMOVE PUMP STRAINER AND PLACE IN A CONSPICUOUS LOCATION FOR THE OWNER.

TYPICAL PUMP TRIM DETAIL
NO SCALE



EXISTING BOILER ROOM AND EQUIPMENT YARD PIPING PLAN
(ALTERNATE #1)
SCALE: 1/4" = 1'-0"

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800 EAST MAIN STREET, SPARTANBURG, SC 29302
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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

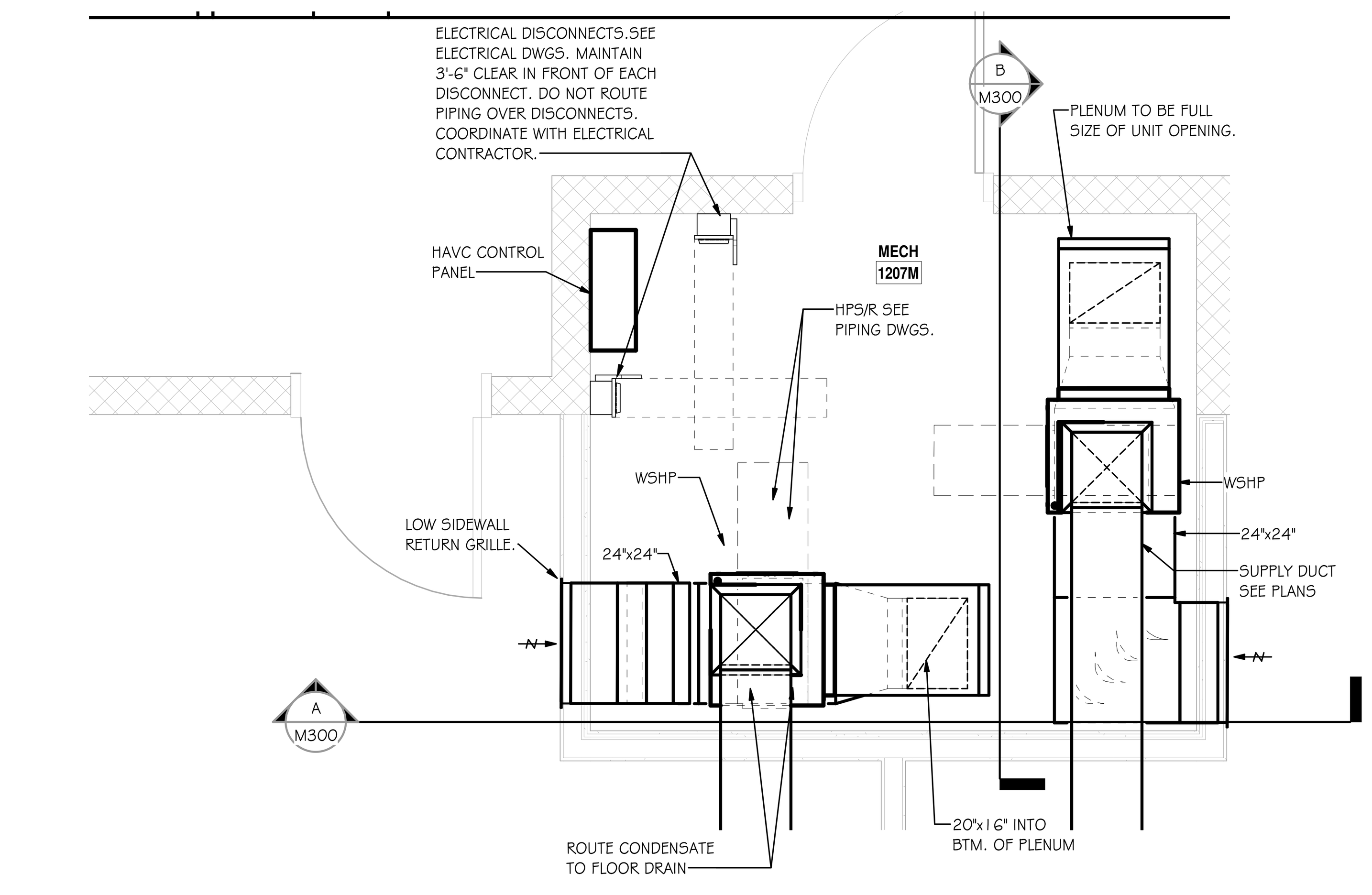
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:

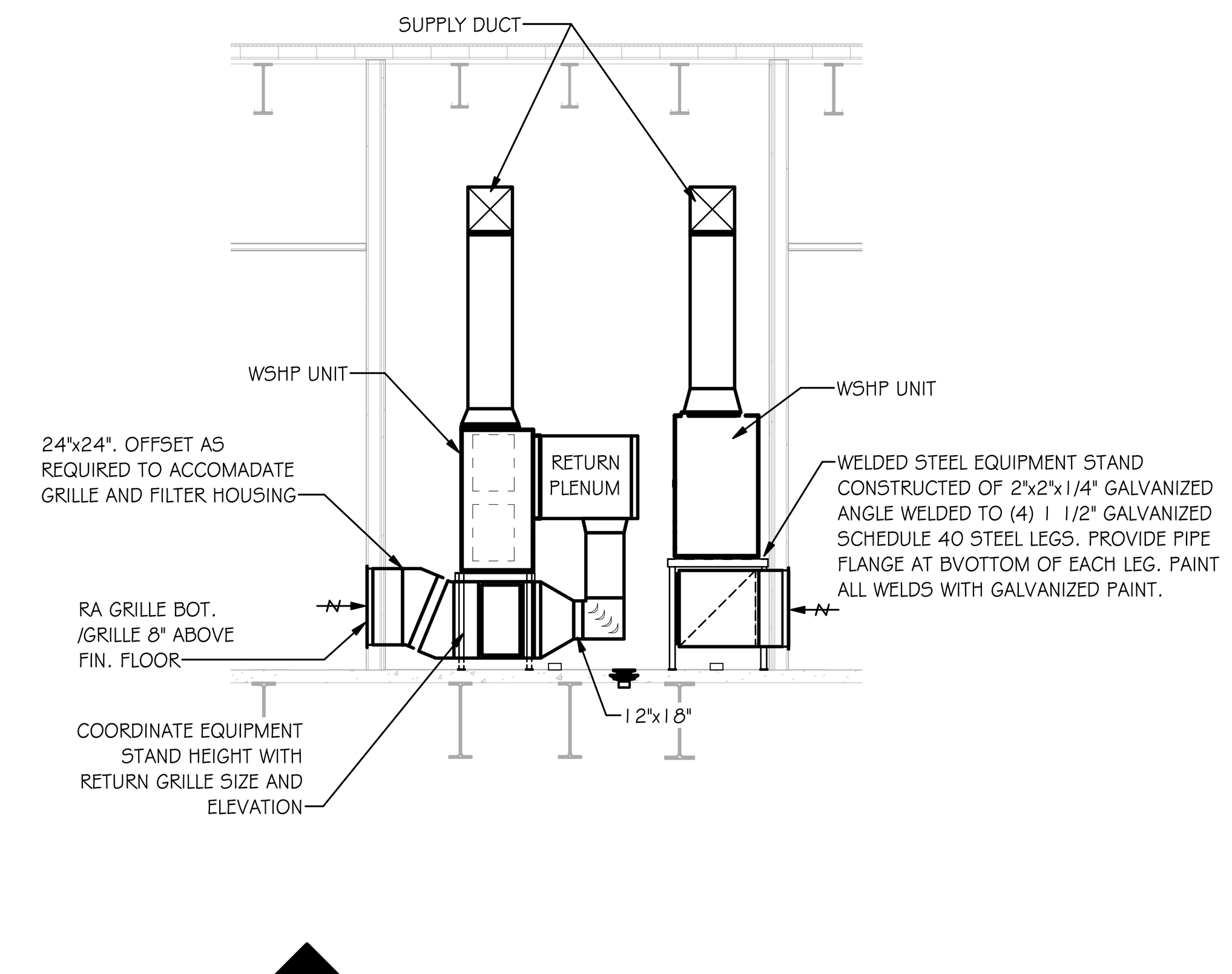
MAIN MECHANICAL ROOM PIPING PLAN & DETAILS.

SHEET NO. M204

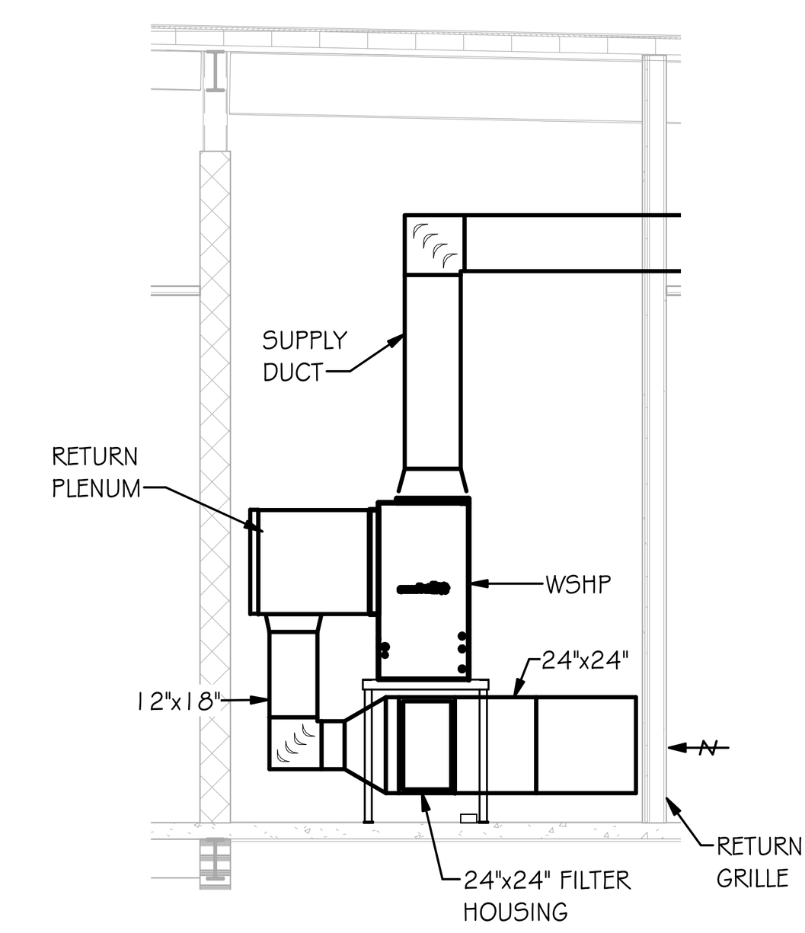
PROJ. NO. 2037



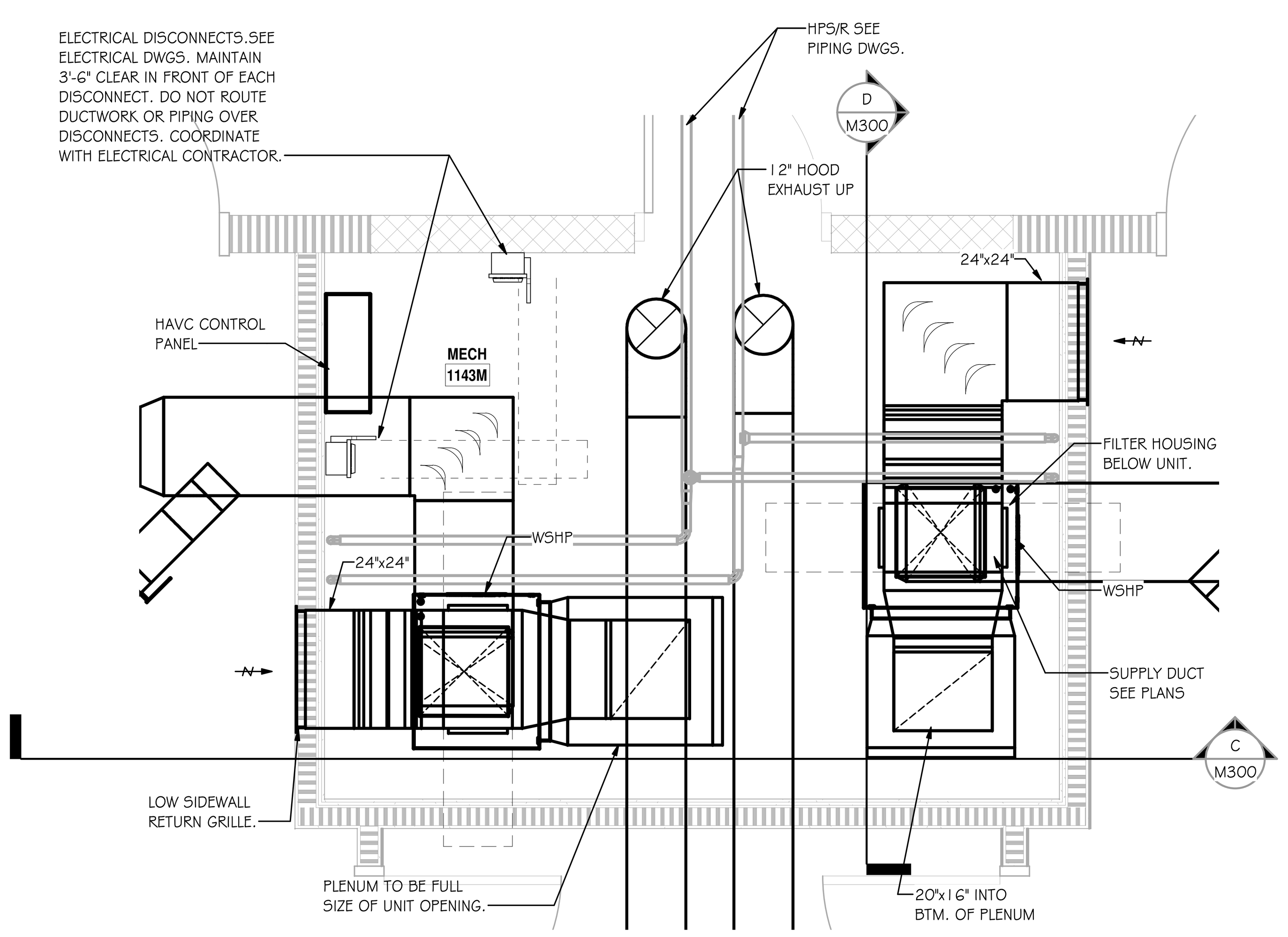
TYPICAL CLASSROOM MECHANICAL ROOM PLAN
1/2" = 1'-0"



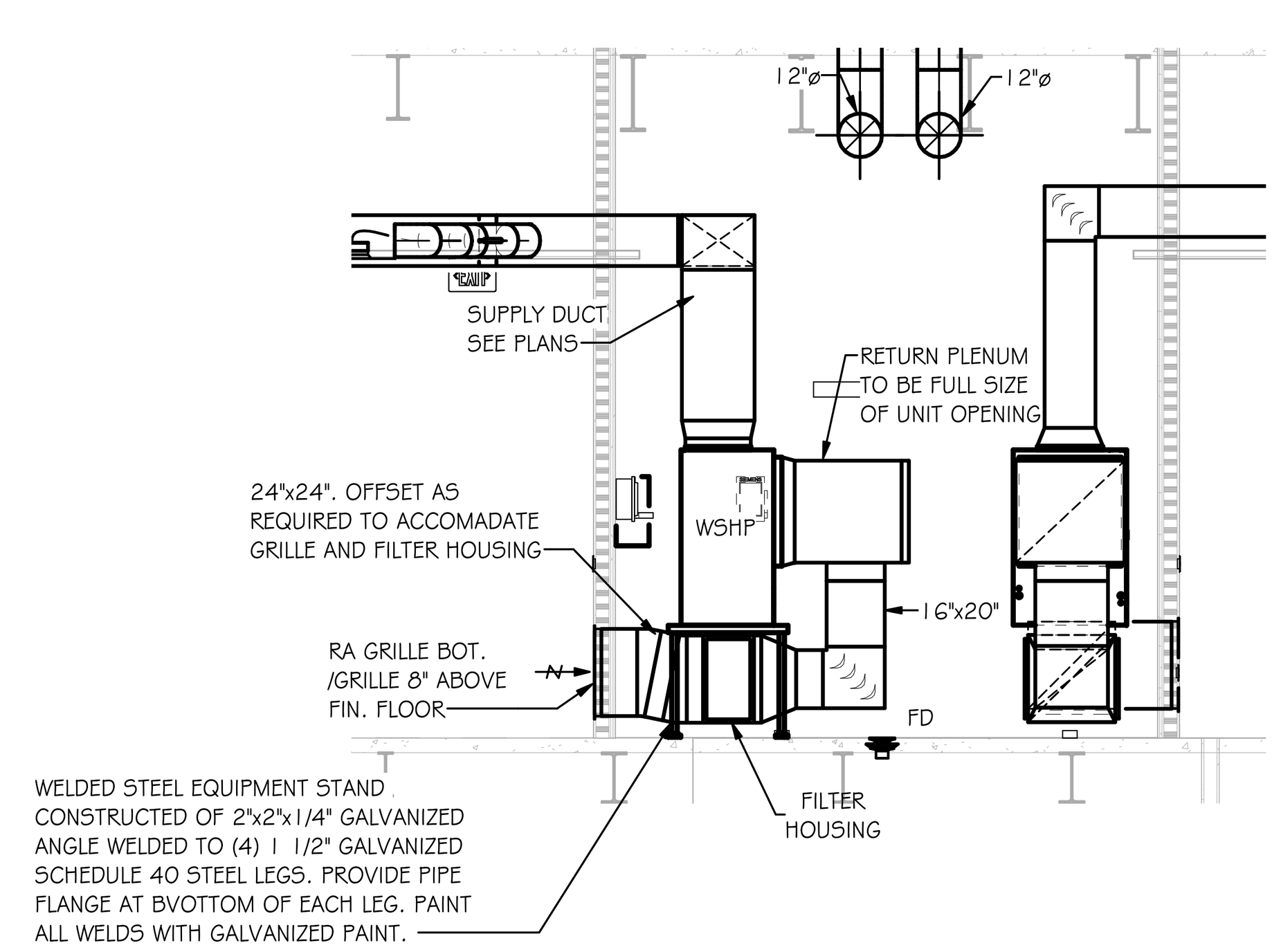
A M102 Section A
1/4" = 1'-0"



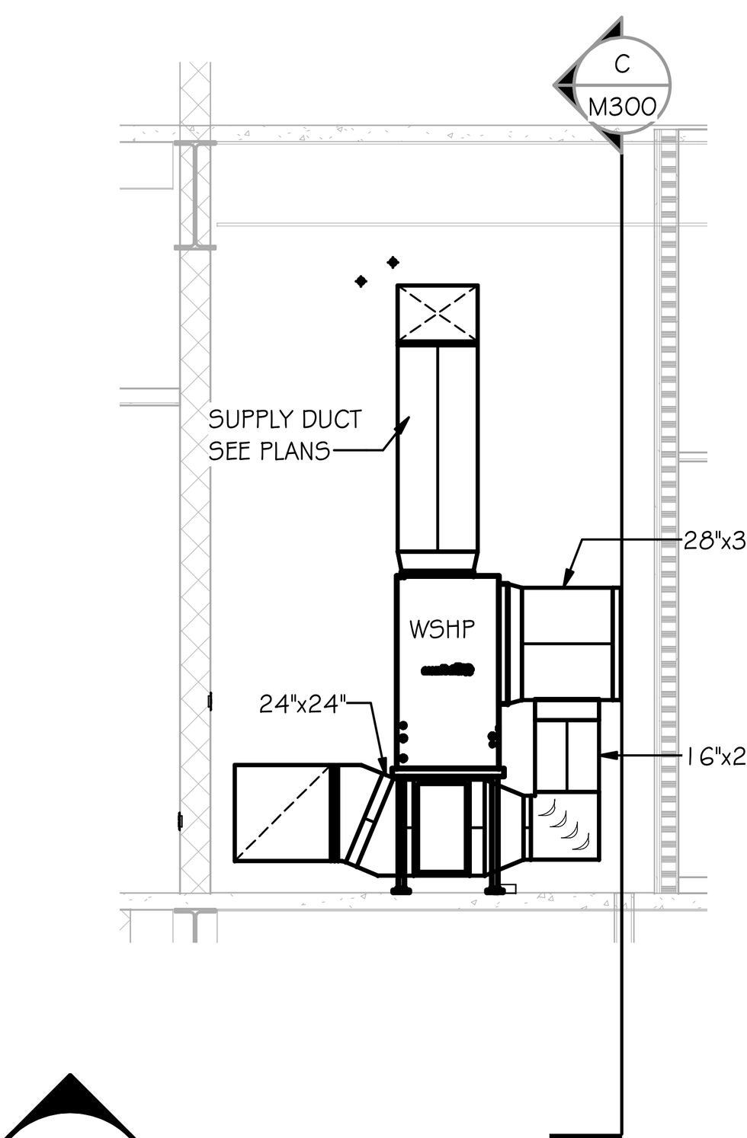
B M300 Section B
1/4" = 1'-0"



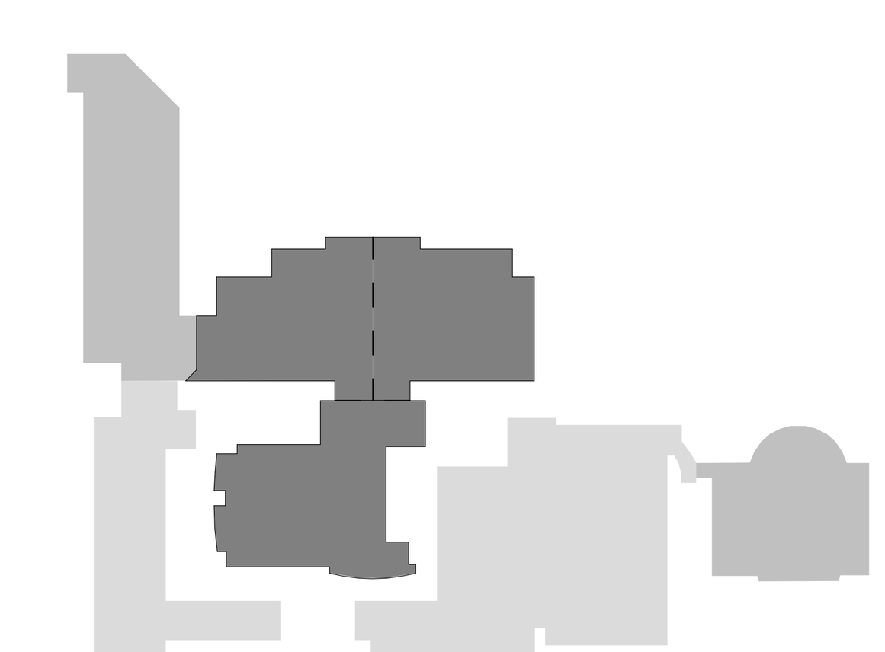
TYPICAL LAB MECHANICAL ROOM PLAN
1/2" = 1'-0"



C M102 Section C
1/4" = 1'-0"



D M102 Section D
1/4" = 1'-0"



mcmillan pazdan smith
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800 EAST MAIN STREET, SPARTANBURG, SC 29302
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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
ENLARGED MECHANICAL ROOM PLANS AND SECTIONS

SHEET NO. PROJ. NO. 2037

M300

WATER SOURCE HEAT PUMP SCHEULE

Tag	Floor Level	Configuration	Manufacturer	Model	Air Flow CFM	Ventilation Air (CFM)	ESP (In WC)	Motor HP	Cooling EAT DB F	Cooling EAT WB F	Cooling EWT F	Cooling Total Capacity MBTUH	Cooling Sensible Capacity MBH	S/T Ratio	Latent MBH	Heat Reject. MBH	Cooling LAT F(C)	Cooling LWT F(C)	Stages	EER @ Design	EER @ AHRI	Heating EAT DB F(C)	Heating EWT F(C)	Heating Total Capacity MBH	Heat Extract. MBH	Heating LAT F	Heating LWT F	COP @ Design	COP @ AHRI	Flow Rate GPM	Pressure Drop FT/HD	Branch Pipe and Trim Size	Control Valve Press. Drop (PSI)	Voltage	Total Unit FLA	Min Circ Amp	Max Fuse / HACR	Filter Housing	Air Purification Unit				Remarks	Tag
																																							MFR/Model	Qty.	Voltage	Power		
WSHP- A0.01	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.01
WSHP- A0.02	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.02
WSHP- A0.03	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.03
WSHP- A0.04	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.04
WSHP- A0.05	1000	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.05
WSHP- A0.06	1000	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.06
WSHP- A0.07	1000	Vertical	Water Furnace	NBV024	720.0	0	0.5	0.5	74.0	62.0	90.0	22.4	16.7	0.75	5.7	27.7	52.6	99.23	1	14.3		72.0	60.0	27.05	21.1	106.8	52.97	4.6		6.0	8.5	1	2 psi	460/60/3	5.6	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.07
WSHP- A0.08	1000	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.08
WSHP- A0.09	1000	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.09
WSHP- A0.10	1000	Vertical	Water Furnace	NBV048	1603.0	0	0.5	1.0	74.0	63.0	90.0	44.6	33.0	0.74	11.6	55.3	55.0	102.29	1	14.2		72.0	60.0	52.36	41.4	102.2	50.8	4.8		9.0	4.3	1-1/4	2 psi	460/60/3	10.1	11.6	15.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.10
WSHP- A0.11	1000	Vertical	Water Furnace	UBV009	330.0	0	0.4	0.1	74.0	62.0	90.0	6.8	6.0	0.88	0.8	9.3	57.3	102.4	1	9.1		72.0	60.0	9.1	6.7	97.5	51.07	3.8		1.5	3.0	3/4	2 psi	115/60/1	9.8	11.8	20.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A0.11
WSHP- B0.01	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.01
WSHP- B0.02	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.02
WSHP- B0.03	1000	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.03
WSHP- B0.04	~~1000~~	~~Vertical~~	~~Water Furnace~~	~~NBV048~~	~~1603.0~~	0	~~0.5~~	~~1.0~~	~~74.0~~	~~63.0~~	~~90.0~~	~~44.6~~	~~33.0~~	~~0.74~~	~~11.6~~	~~55.3~~	~~55.0~~	~~102.29~~	1	~~14.2~~		~~72.0~~	~~60.0~~	~~52.36~~	~~41.4~~	~~102.2~~	~~50.8~~	~~4.8~~		~~9.0~~	~~4.3~~	~~1-1/4~~	~~2 psi~~	~~460/60/3~~	~~10.1~~	~~11.6~~	~~15.0~~	36 x 24	~~GPS-FC48~~	1	~~24/240~~	~~10 W~~	NOT USED	WSHP- B0.04
WSHP- B0.05	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.05
WSHP- B0.06	1000	Vertical	Water Furnace	NBV042	1393.0	0	0.5	1.0	74.0	62.0	90.0	38.5	30.2	0.79	8.3	46.6	53.9	100.36	1	16.1		72.0	60.0	40.32	32.3	98.8	52.82	5.0		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.06
WSHP- B0.07	1000	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.07
WSHP- B0.08	1000	Vertical	Water Furnace	NBV048	1603.0	0	0.5	1.0	74.0	63.0	90.0	44.6	33.0	0.74	11.6	55.3	55.0	102.29	1	14.2		72.0	60.0	52.36	41.4	102.2	50.8	4.8		9.0	4.3	1-1/4	2 psi	460/60/3	10.1	11.6	15.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.08
WSHP- B0.08	1000	Vertical	Water Furnace	NBV048	1603.0	0	0.5	1.0	74.0	63.0	90.0	44.6	33.0	0.74	11.6	55.3	55.0	102.29	1	14.2		72.0	60.0	52.36	41.4	102.2	50.8	4.8		9.0	4.3	1-1/4	2 psi	460/60/3	10.1	11.6	15.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.08
WSHP- B0.09	1000	Vertical	Water Furnace	NBV024	720.0	0	0.5	0.5	74.0	62.0	90.0	22.4	16.7	0.75	5.7	27.7	52.6	99.23	1	14.3		72.0	60.0	27.05	21.1	106.8	52.97	4.6		6.0	8.5	1	2 psi	460/60/3	5.6	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B0.09
WSHP- A1.01	1100	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.01
WSHP- A1.02	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.02
WSHP- A1.03	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.03
WSHP- A1.04	1100	Vertical	Water Furnace	NBV009	260.0	0	0.5	0.1	74.0	62.0	90.0	8.4	5.5	0.66	2.9	10.9	54.3	100.9	1	11.7		72.0	60.0	9.95	7.2	107.4	52.8	3.6		2.0	7.2	3/4	2 psi	265/60/1	5.24	6.3	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.04
WSHP- A1.04	1100	Vertical	Water Furnace	NBV009	260.0	0	0.5	0.1	74.0	62.0	90.0	8.4	5.5	0.66	2.9	10.9	54.3	100.9	1	11.7		72.0	60.0	9.95	7.2	107.4	52.8	3.6		2.0	7.2	3/4	2 psi	265/60/1	5.24	6.3	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.04
WSHP- A1.05	1100	Vertical	Water Furnace	NBV009	260.0	0	0.5	0.1	74.0	62.0	90.0	8.4	5.5	0.66	2.9	10.9	54.3	100.9	1	11.7		72.0	60.0	9.95	7.2	107.4	52.8	3.6		2.0	7.2	3/4	2 psi	265/60/1	5.24	6.3	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.05
WSHP- A1.05	1100	Vertical	Water Furnace	NBV009	260.0	0	0.5	0.1	74.0	62.0	90.0	8.4	5.5	0.66	2.9	10.9	54.3	100.9	1	11.7		72.0	60.0	9.95	7.2	107.4	52.8	3.6		2.0	7.2	3/4	2 psi	265/60/1	5.24	6.3	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.05
WSHP- A1.06	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.06
WSHP- A1.07	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.07
WSHP- A1.09	1100	Vertical	Water Furnace	NBV060	1633.0	0	0.5	1.0	74.0	62.0	90.0	56.5	39.5	0.7	17.0	69.9	51.6	100.75	1	14.4		72.0	60.0	65.02	49.6	108.9	52.37	4.2		13.0	8.8	1-1/4	2 psi	460/60/3	11.8	13.8	20.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- A1.09
WSHP- B1.01	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.01
WSHP- B1.02	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.02
WSHP- B1.03	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.03
WSHP- B1.04	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.04
WSHP- B1.05	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.05
WSHP- B1.06	1100	Vertical	Water Furnace	NBV060	1633.0	0	0.5	1.0	74.0	62.0	90.0	56.5	39.5	0.7	17.0	69.9	51.6	100.75	1	14.4		72.0	60.0	65.02	49.6	108.9	52.37	4.2		13.0	8.8	1-1/4	2 psi	460/60/3	11.8	13.8	20.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- B1.06
WSHP- C1.01	1100	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.01
WSHP- C1.02	1100	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.02
WSHP- C1.03	1100	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.03
WSHP- C1.04	1100	Vertical	Water Furnace	NBV024	720.0	0	0.5	0.5	74.0	62.0	90.0	22.4	16.7	0.75	5.7	27.7	52.6	99.23	1	14.3		72.0	60.0	27.05	21.1	106.8	52.97	4.6		6.0	8.5	1	2 psi	460/60/3	5.6	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.04
WSHP- C1.05	1100	Vertical	Water Furnace	NBV036	1123.0	0	0.5	0.5	74.0	62.0	90.0	31.3	24.5	0.78	6.8	37.8	53.8	100.8	1	16.5		72.0	60.0	34.89	27.7	100.8	52.09	4.9		7.0	3.9	1-1/4	2 psi	460/60/3	6.3	7.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.05
WSHP- C1.06	1100	Vertical	Water Furnace	NBV024	640.0	0	0.5	0.5	76.7	63.7	90.0	22.2	16.2	0.73	5.9	27.5	53.2	101.0	1	14.2		64.2	60.0	26.85	21.3	103.1	51.48	4.8		5.0	5.8	1	2 psi	460/60/3	5.6	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.06
WSHP- C1.07	1100	Vertical	Water Furnace	NBV018	536.0	90	0.5	0.5	75.6	63.1	90.0	15.5	10.2	0.66	5.3	19.2	58.0	100.97	1	14.4		67.2	60.0	19.15	14.5	100.3	51.71	4.1		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.07
WSHP- C1.08	1100	Vertical	Water Furnace	NBV026	772.0	90	0.5	0.5	75.3	62.8	90.0	25.3	17.8	0.71	7.4	30.9	53.9	102.36	2	15.2		68.4	60.0	27.23	21.6	101.1	51.36	4.8		5.0	3.9	1	2 psi	460/60/3	5.6	6.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.08
WSHP- C1.09	1100	Vertical	Water Furnace	NBV018	639.0	90	0.5	0.5	76.9	63.9	90.0	16.0	11.5	0.72	4.5	19.9	60.3	101.37	1	13.9		63.6	60.0	19.66	15.4	92.1	51.2	4.6		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.09
WSHP- C1.10	1100	Vertical	Water Furnace	NBV026	772.0	90	0.5	0.5	76.7	63.1	90.0	25.4	18.5	0.73	6.8	31.0	54.5	102.4	2	15.3		64.2	60.0	27.5	22.1	97.2	51.16	5.1		5.0	3.9	1	2 psi	460/60/3	5.6	6.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.10
WSHP- C1.11	1100	Vertical	Water Furnace	NBV048	1500.0	90	0.5	1.0	75.9	63.2	90.0	44.5	33.9	0.76	10.6	54.9	55.0	100.98	1	14.6		66.6	60.0	53.3	42.8	99.5	51.44	5.1		10.0	5.6	1-1/4	2 psi	460/60/3	10.1	11.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.11
WSHP- C1.12	1100	Vertical	Water Furnace	NBV018	639.0	90	0.5	0.5	76.9	63.9	90.0	16.0	11.5	0.72	4.5	19.9	60.3	101.37	1	13.9		63.6	60.0	19.66	15.4	92.1	51.2	4.6		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.12
WSHP- C1.13	1100	Vertical	Water Furnace	NBV026	772.0	90	0.5	0.5	77.4	64.1	90.0	25.8	18.5	0.72	7.3	31.3	55.3	100.43	2	15.9		62.4	60.0	28.28	23.0	96.3	52.33	5.3		6.0	5.2	1	2 psi	460/60/3	5.6	6.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.13
WSHP- C1.14	1100	Vertical	Water Furnace	NBV015	455.0	90	0.5	0.5	76.9	63.9	90.0	13.2	9.4	0.71	3.8	16.5	57.8	99.43	1	13.6		63.6	60.0	15.48	12.2	95.1	53.03	4.8		3.5	4.9	1	2 psi	265/60/1	8.6	9.9	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.14
WSHP- C1.15	1100	Vertical	Water Furnace	NBV018	455.0	90	0.5	0.5	77.4	64.1	90.0	15.3	9.7	0.63	5.6	18.9	57.7	100.8	1	14.6		62.4	60.0	19.09	14.5	101.3	51.71	4.2		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W	(2)	WSHP- C1.15
WSHP- C1.16	1100	Vertical	Water Furnace	NBV026	772.0	90	0.5	0.5	75.5	62.7	90.0	25.3	18.0	0.71	7.2	30.9	53.9	102.36	2	15.2		69.0	60.0	27.19	21.5	101.6	51.4	4.8		5.0	3.9	1	2 psi	460/60/3	5.6	6.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C1.16
WSHP- A2.01	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.01
WSHP- A2.02	1200	Vertical	Water Furnace	NBV042	1179.0	0	0.5	1.0	74.0	62.0	90.0	37.6	27.5	0.73	10.1	45.4	52.4	100.09	1	16.5		72.0	60.0	39.63	31.3	103.1	53.04	4.7		9.0	5.8	1-1/4	2 psi	460/60/3	9.8	11.2	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.02
WSHP- A2.03	1200	Vertical	Water Furnace	NBV012	260.0	0	0.5	0.1	74.0	62.0	90.0	11.6	7.2	0.62	4.4	14.5	48.5	101.6	1	13.7		72.0	60.0	11.63	8.3	113.4	53.36	3.5		2.5	2.3	3/4	2 psi	265/60/1	5.42	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.03
WSHP- A2.04	1200	Vertical	Water Furnace	NBV015	455.0	0	0.5	0.5	74.0	62.0	90.0	12.8	8.9	0.7	3.9	16.3	55.8	100.87	1	12.7		72.0	60.0	14.97	11.5	102.5	52.33	4.3		3.0	3.7	3/4	2 psi	265/60/1	8.6	9.9	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.04
WSHP- A2.05	1200	Vertical	Water Furnace	UDV084	2460.0	0	0.5	7.5	74.0	62.0	90.0	77.5	54.7	0.71	22.7	97.0	53.4	101.41	1	13.5		72.0	60.0	93.3	73.0	107.1	51.41	4.6		17.0	8.3	1-1/2	2 psi	460/60/3	11.8	14.0	20.0	36 x 24	GPS-FC48	1	24/240	10 W	(1) (2)	WSHP- A2.05
WSHP- A2.06	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.06
WSHP- A2.07	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.07
WSHP- A2.08	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.08
WSHP- A2.09	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.09
WSHP- A2.10	1200	Vertical	Water Furnace	NBV060	1904.0	0	0.5	1.0	74.0	62.0	90.0	57.7	42.8	0.74	14.9	71.6	53.2	101.02	1	14.2		72.0	60.0	65.93	51.1	104.1	52.14	4.4		13.0	8.8	1-1/4	2 psi	460/60/3	11.8	13.8	20.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- A2.10
WSHP- B2.01	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.01
WSHP- B2.02	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.02
WSHP- B2.03	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.03
WSHP- B2.04	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.04
WSHP- B2.05	1200	Vertical	Water Furnace	NBV060	1904.0	0	0.5	1.0	74.0	62.0	90.0	57.7	42.8	0.74	14.9	71.6	53.2	101.02	1	14.2		72.0	60.0	65.93	51.1	104.1	52.14	4.4		13.0	8.8	1-1/4	2 psi	460/60/3	11.8	13.8	20.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.05
WSHP- B2.06	1200	Vertical	Water Furnace	NBV018	639.0	0	0.5	0.5	74.0	62.0	90.0	15.7	11.1	0.71	4.6	19.6	57.9	101.2	1	13.7		72.0	60.0	19.25	14.5	99.9	51.71	4.1		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.06
WSHP- B2.07	1200	Vertical	Water Furnace	NBV018	536.0	0	0.5	0.5	74.0	62.0	90.0	15.3	10.0	0.65	5.3	19.0	56.7	100.86	1	14.2		72.0	60.0	18.92	14.0	104.7	52.0	3.9		3.5	4.7	1	2 psi	265/60/1	9.2	10.6	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.07
WSHP- B2.08	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- B2.08
WSHP- B2.09	1200	Vertical	Water Furnace	UDV084	2460.0	0	0.5	7.5	74.0	62.0	90.0	77.5	54.7	0.71	22.7	97.0	53.4	101.41	1	13.5		72.0	60.0	93.3	73.0	107.1	51.41	4.6		17.0	8.3	1-1/2	2 psi	460/60/3	11.8	14.0	20.0	36 x 24	GPS-FC48	1	24/240	10 W	(1) (2)	WSHP- B2.09
WSHP- C2.01	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.01
WSHP- C2.02	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.02
WSHP- C2.03	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.03
WSHP- C2.04	1200	Vertical	Water Furnace	UBV006	155.0	0	0.4	0.1	74.0	62.0	90.0	5.9	3.5	0.6	2.4	7.7	53.0	100.27	1	10.9		72.0	60.0	7.02	4.7	113.9	53.73	3.1		1.5	4.2	3/4	2 psi	115/60/1	7.9	9.4	15.0	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.04
WSHP- C2.05	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.05
WSHP- C2.06	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.06
WSHP- C2.07	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.07
WSHP- C2.08	1200	Vertical	Water Furnace	NBV030	843.0	0	0.5	0.5	74.0	62.0	90.0	25.3	18.7	0.74	6.6	30.9	53.5	100.3	1	15.4		72.0	60.0	29.36	23.4	104.3	52.2	4.9		6.0	5.1	1	2 psi	460/60/3	5.7	6.6	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.08
WSHP- C2.09	1200	Vertical	Water Furnace	UDV084	2460.0	0	0.5	7.5	74.0	62.0	90.0	77.5	54.7	0.71	22.7	97.0	53.4	101.41	1	13.5		72.0	60.0	93.3	73.0	107.1	51.41	4.6		17.0	8.3	1-1/2	2 psi	460/60/3	11.8	14.0	20.0	36 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.09
WSHP- C2.10	1200	Vertical	Water Furnace	NBV026	772.0	0	0.5	0.5	74.0	62.0	90.0	25.1	17.6	0.7	7.5	30.6	52.9	100.2	2	15.6		72.0	60.0	27.62	21.7	105.1	52.77	4.7		6.0	5.2	1	2 psi	460/60/3	5.6	6.4	10.15	24 x 24	GPS-FC48	1	24/240	10 W	(1)	WSHP- C2.10
WSHP- C2.11	1200	Vertical	Water Furnace	NBV012	260.0	0	0.5	0.1	74.0	62.0	90.0	11.6	7.2	0.62	4.4	14.5	48.5	101.6	1	13.7		72.0	60.0	11.63	8.3	113.4	53.36	3.5		2.5	2.3	3/4	2 psi	265/60/1	5.42	6.5	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.11
WSHP- C2.12	1200	Vertical	Water Furnace	NBV038	1329.0	0	0.5	0.5	74.0	62.0	90.0	35.9	28.6	0.8	7.3	44.6	54.1	102.74	2	14.0		72.0	60.0	38.98	31.0	99.2	51.14	4.9		7.0	4.2	1-1/4	2 psi	460/60/3	7.8	9.2	10.15	24 x 24	GPS-FC48	1	24/240	10 W		WSHP- C2.12

NOTES:
SEE SPECIFICATIONS FOR FILTER HOUSING REQUIREMENTS

SEE HVAC PLANS FOR RIGHT OR LEFT HAND UNIT CONFIGURATION

EXTERNAL STATIC PRESSURE INCLUDES DUCT LOSSSES PLUS DIRTY FILTER DROP

EER AND COP VALUVES ARE BASED ON ASHRAE/AHRI/ISO 13256-1, IWHT ENTERING CONDTIONS OF 80.6 F DB AND 66.2 F WB. ENTERING WATER CONDTIONS AT 86 F (COOLING) AND 68 F (HEATING)

REMARKS
(1) NEW SMOKE DETECTOR. PROVIDED BY ELEC. (FAN SHUTDOWN AND DETECTOR MOUNTING BY MECHANICAL.)

(2) HOT GAS REHEAT DEHUMIDIFICATION CYCLE

(3) MINIMUM VENTILATION AIR CFM IS CONTRLLED USING CO2 BASED DEMAND CONTROL VENTILATION SEQUENCE. (SEE SPECIFICATIONS.)

(4) UNITS WITH NOT CONTROL VALVES FOR MINIMUM PUMP FLOW.

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	STB
C	06/01/22	GMP SET	STB

NOT FOR CONSTRUCTION
FOR PRICING ONLY

GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
HVAC SCHEDULES

SHEET NO. M400

PROJ. NO. 2037

RANGE HOOD SCHDULE

TAG	AREA SERVED	HOOD WIDTH	CONFIGURATION	ELECTRICAL	MFR & MODEL	ASSOCIATED EXHAUST FAN	REMARKS
RH-1	LIFE SKILLS-1062	30"	TOP DISCHG.	115V	GREENHECK #GRRS	EF-B0.01	(1)
RH-2	LIFE SKILLS-1062	30"	TOP DISCHG.	115V	GREENHECK #GRRS	EF-B0.01	(1)

REMARKS / ACCESSORIES: (1) ELECTRIC SHUNT TRIP DEVICE

HEAT EXCHANGER SCHEDULE

TAG	HEAT PUMP SIDE					COOLING TOWER SIDE				MFR & MODEL	REMARKS
	GPM	MIN GPM	EWT (°F)	LWT (°F)	△ P	GPM	EWT (°F)	LWT (°F)	△ P		
HX-1	1600	150	100	90	4.8	1600	85	95	4.9	EXISTING	
HX-2	1600	150	100	90	4.8	1600	85	95	4.9	B&G AP100	ALTERNATE #1

REMARKS:
- ADD 10% ADDITIONAL PLATE SURFACE AREA FOR FOULING.
- PERFORMANCE SHALL BE IN ACCORDANCE WITH AHRI STANDARD 400

PUMP SCHEDULE

TAG	SERVICE	DESIGN GPM	T&B GPM	MIN GPM	FT. HD.	TYPE	MOTOR HP	ELECT.	RPM	MFR & MODEL	TRIPLE DUTY VALVE		REMARKS
											SIZE	Cv	
P-1	HP DISTRIBUTION	1600	1150	--	155	CENTRIFUGAL BASE MOUNTED	75	460/3	1750	B & G 1510-6G	8"	1085	EXISTING
P-2	HP DISTRIBUTION	1600	1150	--	155	CENTRIFUGAL BASE MOUNTED	75	460/3	1750	B & G 1510-6G	8"	1085	EXISTING
P-3	HP DISTRIBUTION	1600	--	--	155	CENTRIFUGAL BASE MOUNTED	75	460/3	1750	B & G 1510-6G	8"	1085	FUTURE
P-4	COOLING TOWER	1600	--	310	80	CENTRIFUGAL BASE MOUNTED	40	460/3	1750	B & G 1510-6E	8"	1085	(1) (2) ALTERNATE #1
P-5	COOLING TOWER	1600	--	310	80	CENTRIFUGAL BASE MOUNTED	40	460/3	1750	B & G 1510-6E	8"	1085	EXISTING
P-6	BOILER	235	--	--	30	IN-LINE CENTRIFUGAL	3	460/3	1750	B & G 80 4x4x7	3"	202	EXISTING
P-7	BOILER	235	--	--	30	IN-LINE CENTRIFUGAL	3	460/3	1750	B & G 80 4x4x7	3"	202	EXISTING
P-8	BOILER	235	--	--	30	IN-LINE CENTRIFUGAL	3	460/3	1750	B & G 80 4x4x7	3"	202	FUTURE

REMARKS / ACCESSORIES:

(1) FURNISH W/ VARIABLE SPEED DRIVE

(2) PUMP IS DESIGNED TO OPERATE IN PARALLEL WITH PUMP P-5. NEW PUMP TO MATCH EXISTING FLOW CURB. COORDINATE EXISTING PUMP MODEL, IMPELLER, AND PRESSURE/FLOW CURB. TEST AND BALANCE CONTRACTOR SHALL TEST NEW P-4 AND EXISTING P-5 THROUGHOUT THEIR SPEED RANGES TO VERIFY PUMP OPERATION.
COORDINATE CONTROL POINTS/SPEEDS WITH CONTROLS CONTRACTOR.

DUCTLESS SPLIT SYSTEM SCHEDULE

TAG	AREA SERVED	AIR HANDLING UNIT			COOLING CAPACITY			CONDENSING UNIT						CONDENSING UNIT	REMARKS
		CFM	VOLTAGE	MFR. & MODEL	E.A.T. (db/wb)	AMBIENT	TC	SEER	VOLT	M.C.A.	CIR PROTECT	REFRIG. LINES		MFR. & MODEL	
												LIQ.	GAS		
DSS-A0.01	--	635	208/1	MITSUBISHI TPKA0A0241KA	80/67	95	24.0	21.4	208/1	19.0	26.0	3/8"	5/8"	MITSUBISHI TRUYA024	(1)
DSS-A1.01	--	635	208/1	MITSUBISHI TPKA0A0241KA	80/67	95	24.0	21.4	208/1	19.0	26.0	3/8"	5/8"	MITSUBISHI TRUYA024	(1)
DSS-A2.01	--	635	208/1	MITSUBISHI TPKA0A0241KA	80/67	95	24.0	21.4	208/1	19.0	26.0	3/8"	5/8"	MITSUBISHI TRUYA024	(1)
DSS-C1.01	--	635	208/1	MITSUBISHI TPKA0A0241KA	80/67	95	24.0	21.4	208/1	19.0	26.0	3/8"	5/8"	MITSUBISHI TRUYA024	(1)
DSS-C2.01	--	635	208/1	MITSUBISHI TPKA0A0241KA	80/67	95	24.0	21.4	208/1	19.0	26.0	3/8"	5/8"	MITSUBISHI TRUYA024	(1)

NOTES:
- MANUFACTURER SHALL CONFIRM REFRIGERANT LINE SIZING BASED ON ACTUAL REFRIGERANT LINE LENGTHS AND FITTINGS.
- PROVIDE WITH WIRED, WALL MOUNTED THERMOSTATS.

REMARKS:

(1). LOW AMBIENT CONTROL.

(2). PROVIDE TEMPERATURE SENSOR FOR MONITORING/ALARM FROM BMS.

COOLING TOWER SCHEDULE

TAG	GPM	MIN. GPM	EWT (°F)	LWT (°F)	WET BULB TEMP	FAN MOTOR		BASIN HEATER		OVERALL SOUND PRESSURE LEVELS (dBA)						MFR. & MODEL	REMARKS
						HP	VOLTAGE	KW	VOLTAGE	FAN DISCHG		AIR INLET		CASED FACE			
										5 FT	50 FT	5 FT	50 FT	5 FT	50 FT		
CT-1	1600	500	95.0	85.0	78	25	460/3	14.0	460/3	64	56	64	52	58	48	EXISTING	
CT-2	1600	500	95.0	85.0	78	25	460/3	14.0	460/3	64	56	64	52	58	48	BAC XESE-1424-07N	(1) (2) (3) (4) ALTERNATE #1

REMARKS:

(1) VARIABLE SPEED DRIVE

(2) SIDE OUTLET

(3) PROVIDE W BOTTOM EQUILIZER OUTLET

(4) PROVIDE STEEL I-BEAM TO BELOW TOWER TO ELEVATE TOWER AND SPAN TO EXISTING CONCRETE COLUMN (SEE PIPING PLANS.)
WATER LEVEL OF NEW TOWER MUST MATCH THE ELEVATION OF THE EXISTING COOLING TOWER.

ROOFTOP ENERGY RECOVERY UNIT SCHEDULE PT. 1

TAG	ERV SUPPLY SIDE									ERV EXHAUST SIDE							
	CFM OA	E.S.P.	FAN HP	DRIVE	WHEEL PRESS DROP	SUMMER E.A.T. (db/wb)	SUMMER L.A.T. (db/wb)	WINTER E.A.T. (db/wb)	WINTER L.A.T. (db/wb)	CFM	E.S.P.	FAN HP	DRIVE	SUMMER E.A.T. (db/wb)	SUMMER L.A.T. (db/wb)	WINTER E.A.T. (db/wb)	WINTER L.A.T. (db/wb)
RERV-1	11,200	1.5	15	BELT	0.7	95/74	80.7/66.2	20.0/19.0	51.0/43.2	9500	1.5	10	BELT	74.0/61.7	89.1/70.7	70.0/54.4	31.8/30
RERV-2	7500	1.5	7.5	BELT	0.7	95/74	80.7/66.2	20.0/19.0	51.0/43.2	6400	1.5	5	BELT	74.0/61.7	89.1/70.7	70.0/54.4	31.8/30
RERV-3	9000	1.5	10	BELT	0.7	95/74	80.7/66.2	20.0/19.0	51.0/43.2	8500	1.5	7.5	BELT	74.0/61.7	89.1/70.7	70.0/54.4	31.8/30

ROOFTOP ENERGY RECOVERY UNIT SCHEDULE NOTES & REMARKS

NOTES:
- EXT. STATIC PRESS. INCLUDES ALL LOSSES EXTERNAL TO THE CABINET.
- TOTAL STATIC PRESS. INCLUDES E.S.P., INTERNAL LOSSES, AND DIRTY FILTER.
- FILTER HOUSING SHALL HAVE 4" FILTER CAPABILITY (SEE SPECIFICATIONS FOR SIZE/TYPE OF FILTERS REQUIRED.) FILTER HOUSING SHALL
- HAVE 4" FILTER CAPABILITY (SEE SPECIFICATIONS FOR SIZE/TYPE OF FILTERS REQUIRED.)
- EACH UNIT SHALL HAVE FACTORY INSTALELD, ULTRA-LOW LEAKAGE MOTORIZED CONTROL DAMPERS AD THE OUTSIDE AIR INLET AND EXHAUST AIR OUTLET.
- EACH UNIT SHALL HAVE MODULATING CONTROL VALVE TO MODULATE FLOW BASED ON HEAD PRESSURE AND TO CLOSE WHEN THE COMPRESSORS ARE NOT OPERATING.

REMARKS:
1. VFD FOR ALL SUPPLY AND EXHAUST FANS
2. SMOKE DETECTOR BY ELEC. (FAN SHUTDOWN AND DETECTOR MOUNTING BY MECHANICAL.)
3. VARIABLE CAPACITY, INVERTER DRIVEN COMPRESSOR ON LEAD CIRCUIT.
4. BYPASS DAMPER FOR 100% INDOOR AIR RECIRCULATION
5. MODULATING HOT GAS REHEAT
6. SPRING ISOLATED BASE RAILS FOR PAD MOUNTING. (SEE SPECIFICATIONS.)
7. AIRFLOW MONITORING (SUPPLY AND EXHAUST CFM)

ROOFTOP ENERGY RECOVERY UNIT SCHEDULE PT.2

TAG	COOLING CAPACITY									HEATING CAPACITY					GPM	WATER ΔP (FT.)	BRANCH PIPE & TRIM SIZE	CONTROL VALVE PRESS. DROP (PSI)	ELECTRICAL			MANUFACTURER	MODEL	DIRTY FILTER ALLOWANCE	REMARKS
	NET SENS.	NET TOTAL	E.A.T. (db/wb)	L.A.T. (COIL) db/wb	HEAT OF REJECTION	E.W.T. (°F)	L.W.T. (°F)	EER @ OP. COND.	HGRH LAT db/wb	HEATING (MBH)	HEAT OF ABSORBTION	E.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)					VOLT	M.C.A.	CIR. PROTECT				
RERV-1	342.5	486.7	81.2/66.5	51.4/51.2	648.6	100	110.0	14.2	87.4/64.9	512.4	--	50.0	--	--	125	13.7	4"	2	460/3	108.9	125	ADDISON	#PRRW-540	0.5"	1, 2, 3, 4, 5, 6, 7
RERV-2	240.0	334.0	81.2/66.5	51.4/51.2	418.8	100	110.0	15.2	87.4/64.9	641.0	--	50.0	--	--	85.0	10.3	3"	2	460/3	69.2	90	ADDISON	#PRRW-360	0.5"	1, 2, 3, 4, 5, 6, 7
RERV-3	283.5	389.9	81.2/66.5	51.4/51.2	511.4	100	110.0	15.7	88.6/65.8	411.2	--	50.0	--	--	100	10.3	3"	2	460/3	83.9	110	ADDISON	#PRRW-480	0.5"	1, 2, 3, 4, 5, 6, 7

AIR DEVICE SCHEDULE

TAG	NECK SIZE	NOMINAL FACE SIZE	SERVICE	MOUNTING	MANUFACTURER	MODEL	REMARKS
		24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
A1	6 x 6	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	W/OBD
A2	9 x 9	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	W/OBD
A3	12 x 12	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	W/OBD
A4	15 x 15	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	W/OBD
B5	18 x 18	23 x 23	SUPPLY	CEILING, SURFACE	PRICE	SMD	W/OBD
C1	16 x 6	18 x 8	SUPPLY	HIGH SIDEWALL	PRICE	520	W/OBD
F			RETURN	LOW SIDEWALL	PRICE		
F2	8 x 8	10 x10	RETURN	HIGH SIDEWALL	PRICE	91	
ST			RETURN		PRICE		

AIR DEVICE NOTES:
- UNLESS NOTED OTHERWISE, ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION. (EXCEPTION: VAV AIR DEVICES)
- BLOW TYPE SHALL BE 4-WAY UNLESS INDICATED OTHERWISE ON THE FLOOR PLANS.
- COORDINATE EXACT LOCATIONS WITH REFLECTED CEILING PLANS.
- PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED.
- ADJUST HORIZONTAL BLADES FOR 15 DEGREES UPWARDS, ALL SIDEWALL SUPPLY REGISTERS
- AIR DEVICES TAGGED WITH "ST" SHALL HAVE A SOUND TRAP.(SEE DETAIL SOUND TRAP DETAIL)

AIR DEVICE REMARKS:

A. PROVIDE STAND ALONE WIRED WALL MOUNT THERMOSTAT/CONTROLLER. THERMOSTAT SHALL MOUNT TO STANDARD ELEC. BOX WITHOUT REQUIRING A FACEPLATE.
24v POWER FOR VAV AIR DEVICE PROVIDED BY CONTROLS CONTRACTOR. COORDINATE LOCATIONS WITH CONTROLS.

EXHAUST FAN SCHEDULE

TAG	LOCATION	SERVICE	CFM	SP IN WG	HP OR WATTS	DRIVE	ELEC. PH.	FAN RPM	SONES	MOUNTING	MFR & MODEL	REMARKS
EF-A1.01	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-A1.02	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-A1.03	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-A1.04	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-A1.05	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-A1.06	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-A1.07	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-A1.08	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-B0.01	--	RANGE HOOD	500	1.0	1/2	DIRECT	115/1	1870	10.3	SIDEWALL	GREENHECK CUE-100HP-VG	(1) (4)(5)(6)
EF-B0.02	--	RANGE HOOD	500	1.0	1/2	DIRECT	115/1	1870	10.3	SIDEWALL	GREENHECK CUE-100HP-VG	(1) (4)(5)(6)
EF-B1.01	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.02	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.03	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.04	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.05	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.06	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-B1.07	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-B1.08	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-B1.09	--	FUME HOOD	750	1.0	1/4	DIRECT	115/1	1652	9.4	ROOF	GREENHECK CUE-100-VG	(1)(2) (4)(5)(6)(7)(8)
EF-C1.01	--	TOILET EXHAUST	75	0.375	17 W	DIRECT	277/1	1068	3.7	CEILING	GREENHECK SP-A390-VG	(1) (4)
EF-C1.02	--	TOILET EXHAUST	75	0.375	17 W	DIRECT	277/1	1068	3.7	CEILING	GREENHECK SP-A390-VG	(1) (4)
EF-C1.03	--	TOILET EXHAUST	75	0.375	17 W	DIRECT	277/1	1068	3.7	CEILING	GREENHECK SP-A390-VG	(1) (4)
EF-C1.04		TOILET EXHAUST	125	0.4	76 W	DIRECT	277/1	1400	1.5	CEILING	GREENHECK SP-A190	(1)
EF-C1.05	--	TOILET EXHAUST	75	0.375	17 W	DIRECT	277/1	1068	3.7	CEILING	GREENHECK SP-A390-VG	(1) (4)
EF-C1.06	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)
EF-C1.07	--	ROOM EXAHST	1200	0.375	1/3	BELT	115/1	1725	12.3	INLINE	GREENHECK BSQ-130	(1)(2)(3)

REMARKS / ACCESSORIES:

(1) BACKDRAFT DAMPER

(2) VIBRATION ISOLATORS

(3) MOTOR STARTER

(4) EC MOTOR

(5) BIRDSCREEN

(6) MOTOR STARTER (W/ NEMA WEATHERPROOF ENCLOSURE)

(7) 18" HIGH WIND-RATED ROOF CURB TO MATCH ROOF SLOPE (SEE ARCH DRAWINGS.)

(8) ACID RESISTANT COATING

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ARCHITECTURE

CONSULTANT LOGO

CROW & BULMAN ENGINEERING, INC.
800 EAST MAIN STREET, SPARTANBURG, SC 29302
PHONE: 864-585-9903, WWW.CBENGR.COM

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

NOT FOR CONSTRUCTION
FOR PRICING ONLY

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
C	06/01/22	GMP SET	STB

GMP SET 06/01/22

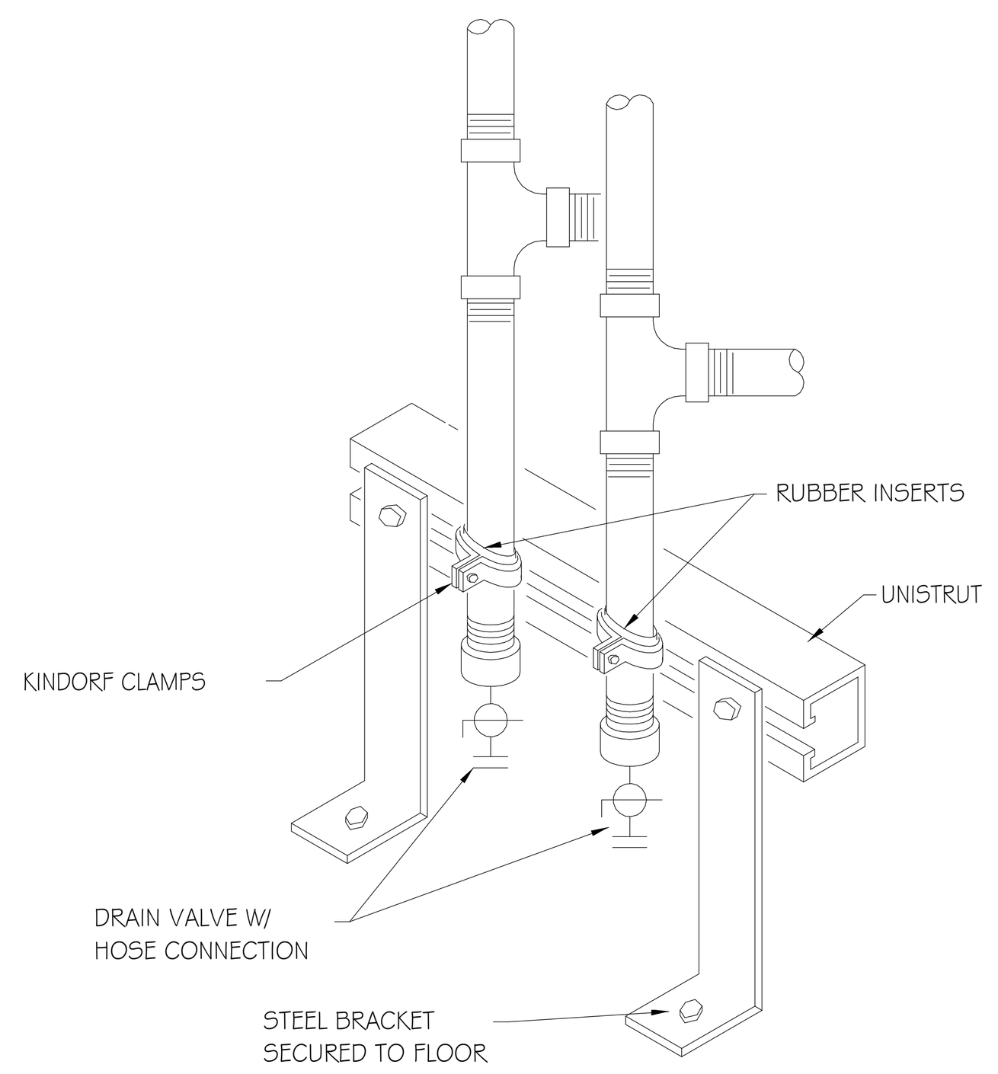
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
HVAC SCHEDULES

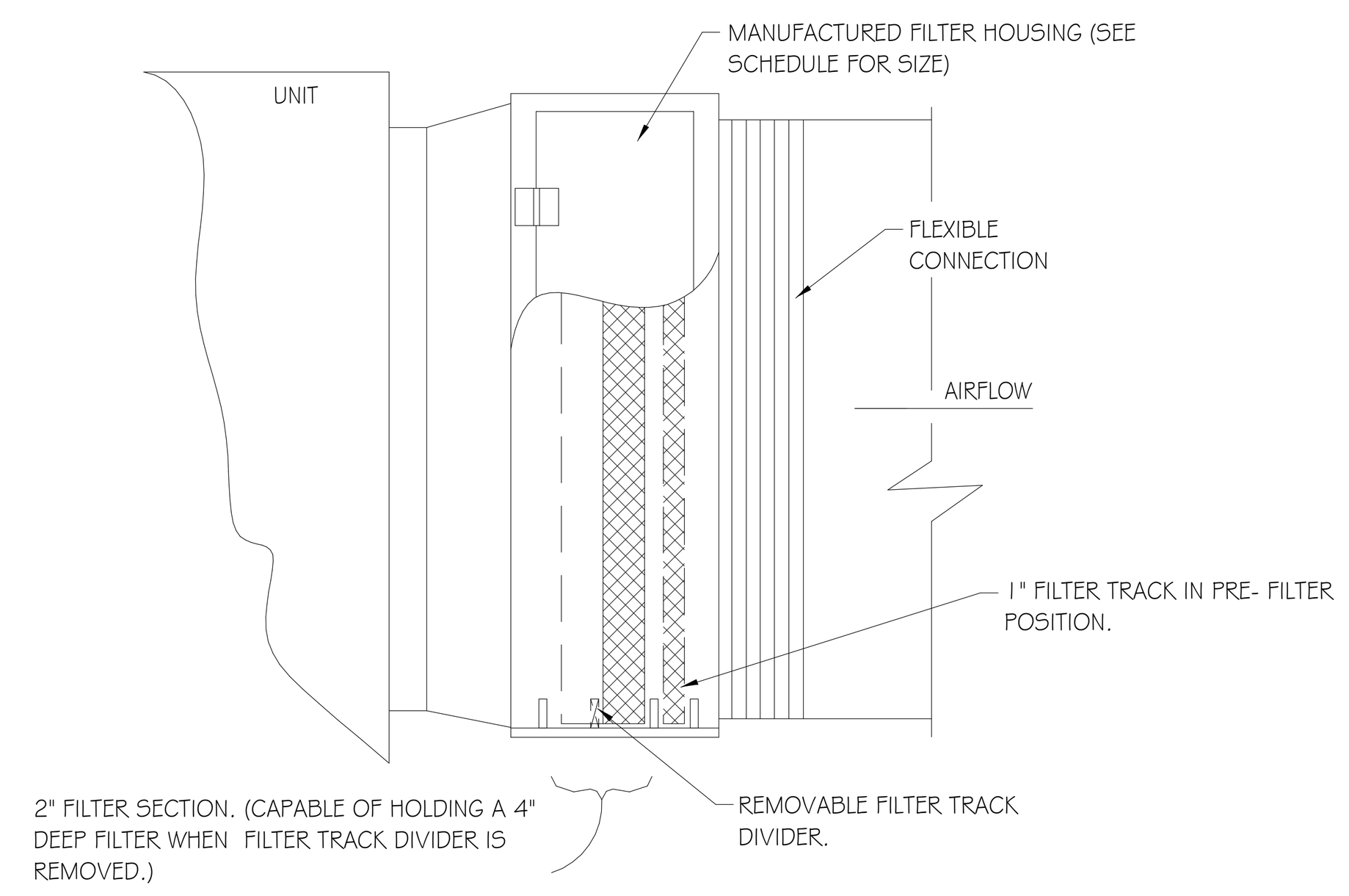
SHEET NO. M401

PROJ. NO. 2037

D

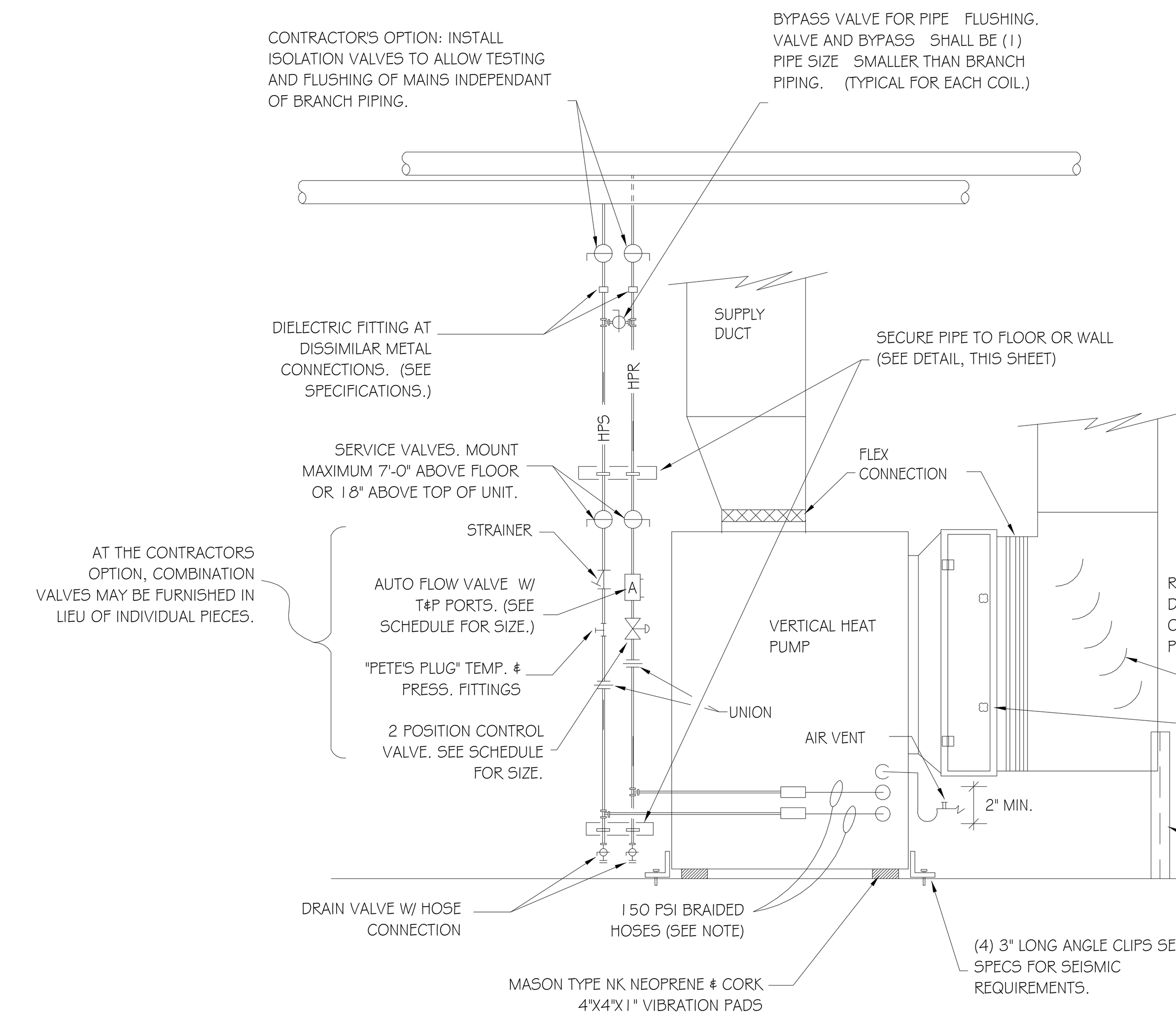


PIPE SUPPORT DETAIL
NO SCALE



NOTE : SEE SPECIFICATIONS FOR TYPE AND SIZE FILTERS TO BE FURNISHED.

FILTER HOUSING DETAIL
NO SCALE

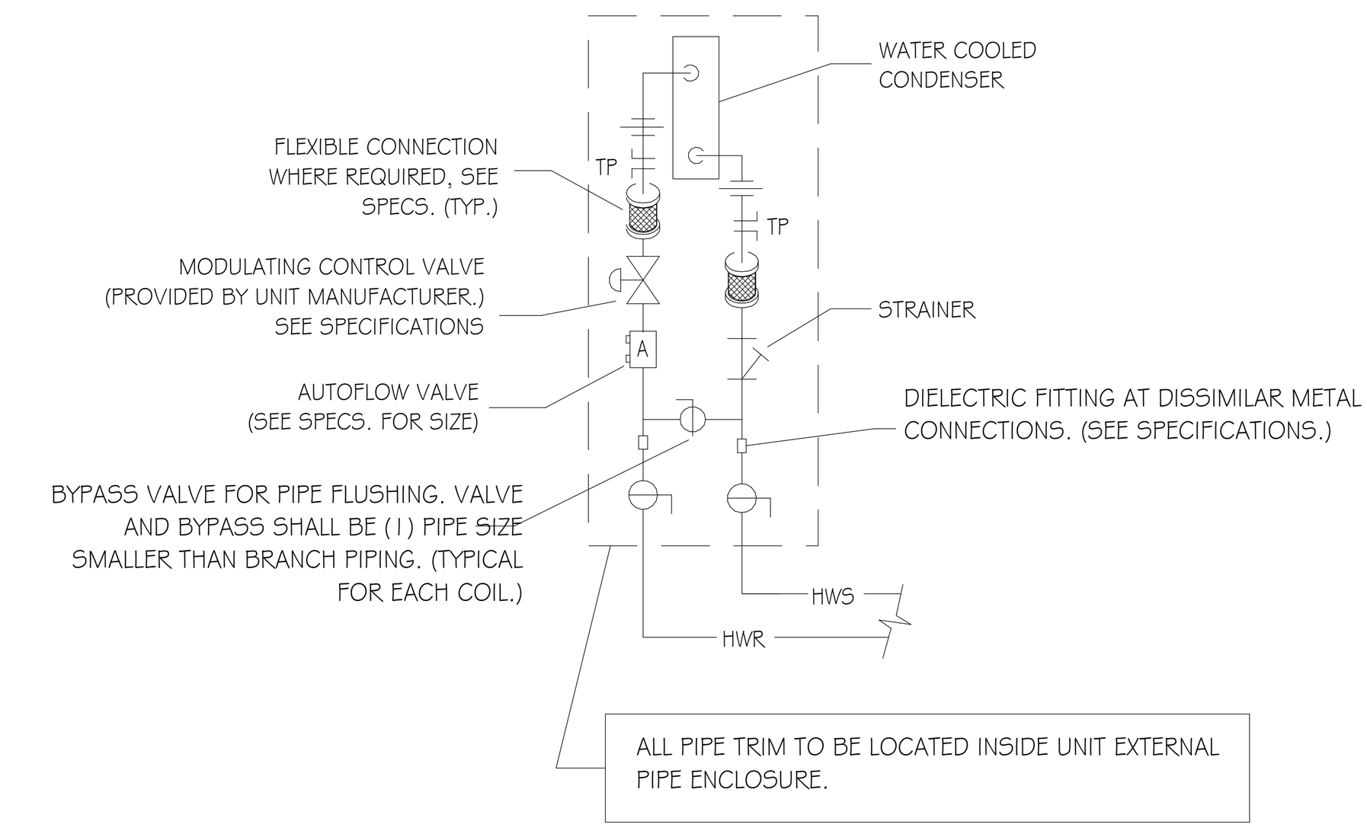


INSTALLATION NOTES:

1) PIPE TRIM TYPICAL FOR ALL UNITS
2) PIPE CONNECTIONS TO UNITS SHALL BE ARRANGED TO NOT PROHIBIT REMOVAL OF UNITS ACCESS PANELS OR RESTRICT ACCESS TO UNIT.
3) TRAP CONDENSATE AND PIPE TO DRAIN, SEE FLOOR PLANS FOR DRAIN LOCATIONS.
4) HOSE CONNECTION FOR UNITS WITH 15 GPM OR LESS: HARD CONNECTION AND FLEXIBLE COUPLINGS FOR UNITS WITH GPM GREATER THAN 15 GPM.
5) MAXIMUM HOSE LENGTH 2 FT.
6) TRANSITION RETURN DUCT TO FILTER SIZE AT UNIT.
7) PIPE A DEMONSTRATION UNIT FOR OWNER AND ENGINEER REVIEW PRIOR TO PIPING REMAINING UNITS.
8) CONTROL VALVE SHALL BE NO SMALLER THAN (2) PIPE SIZES SMALLER THAN THE BRANCH SUPPLY.
9) ACTUAL UNIT CONFIGURATION MAY BE DIFFERENT. SEE PLANS FOR ACTUAL UNIT CONFIGURATION.

HEAT PUMP INSTALLATION DETAIL
NO SCALE

C



RERV & RHP PIPING DETAIL
NO SCALE

B

A

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ARCHITECTURE

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CROW & BULMAN ENGINEERING, INC.

SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

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DRAWN BY: Author

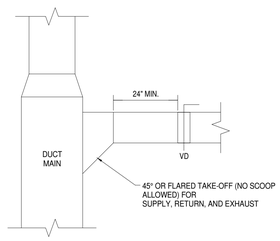
SHEET TITLE:
HVAC DETAILS

SHEET NO. M500

PROJ. NO. 2037

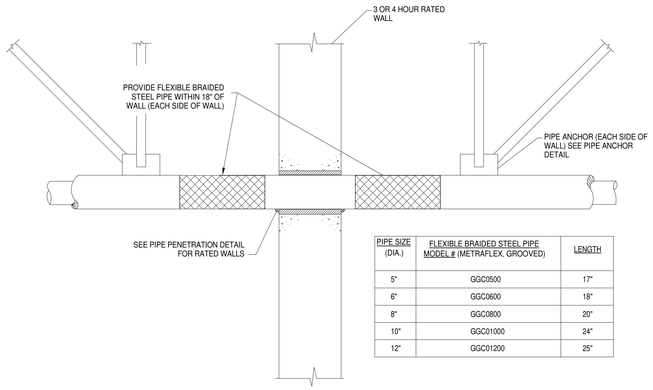
BRANCH DUCT TAKE-OFF DETAIL

NO SCALE



FLEXIBLE PIPE AT RATED WALL DETAIL (PIPE LARGER THAN 4"□)

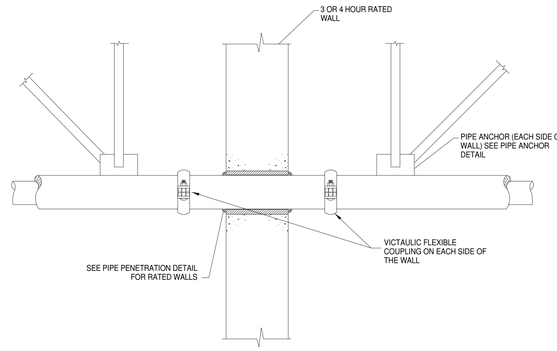
NO SCALE



PIPE SIZE (DIA.)	FLEXIBLE BRAIDED STEEL PIPE MODEL # (METRAFLEX, GROOVED)	LENGTH
5"	GGC0500	17"
6"	GGC0600	18"
8"	GGC0800	20"
10"	GGC01000	24"
12"	GGC01200	25"

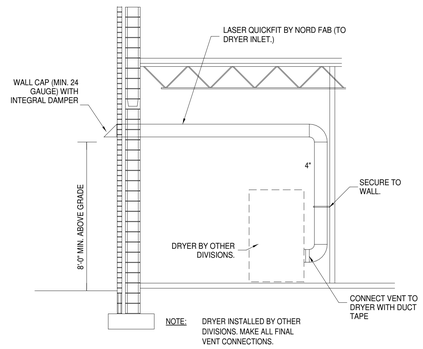
FLEXIBLE COUPLING AT RATED WALL DETAIL (PIPE UP TO 4"□)

NO SCALE



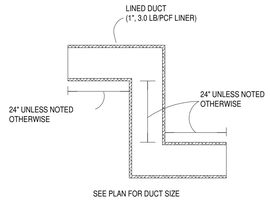
RESIDENTIAL SYTLE DRYER VENT DETAIL

NO SCALE



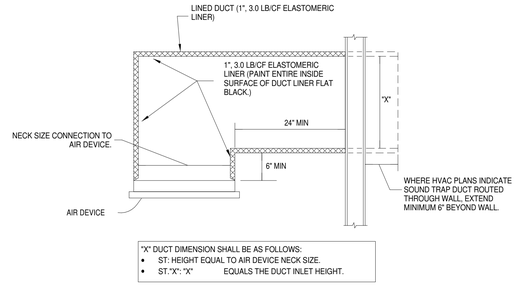
TRANSER DUCT DETAIL

NO SCALE



SOUND TRAP DETAIL

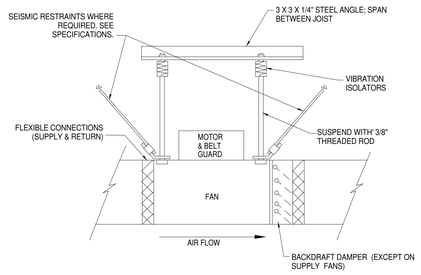
NO SCALE



TYPICAL FOR ALL AIR DEVICES OPENING TO THE CEILING PLENUM. INSTALL WITH INLET DIRECTION AWAY FROM EQUIPMENT ABOVE CEILING OR MECHANICAL PLATFORM.

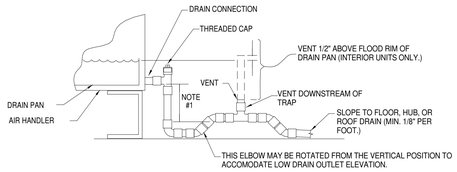
IN-LINE EXHAUST FAN DETAIL

NO SCALE



AIR HANDLER DRAIN DETAIL CLOSE-COUPLED

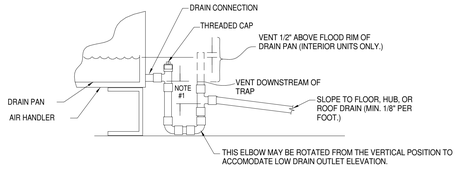
NO SCALE



NOTES:
1.) DISTANCE SHALL BE 2" OR 1/2" GREATER THAN THE FAN SUCTION PRESSURE (WHICH EVER IS GREATER).
2.) DRAIN SHALL BE COPPER TUBING OF SIZE NOTED OR EQUAL TO AIR HANDLER DRAIN CONNECTION.
3.) ALL ELBOW FITTINGS SHALL BE SHORT RADIUS.

AIR HANDLER DRAIN TRAP AND VENT DETAIL

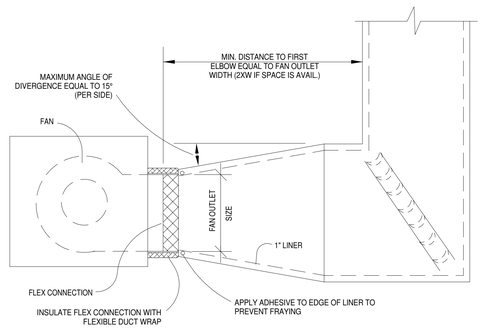
NO SCALE



NOTES:
1.) DISTANCE SHALL BE 2" OR 1/2" GREATER THAN THE FAN SUCTION PRESSURE (WHICH EVER IS GREATER).
2.) DRAIN SHALL BE COPPER TUBING OF SIZE NOTED OR EQUAL TO AIR HANDLER DRAIN CONNECTION.

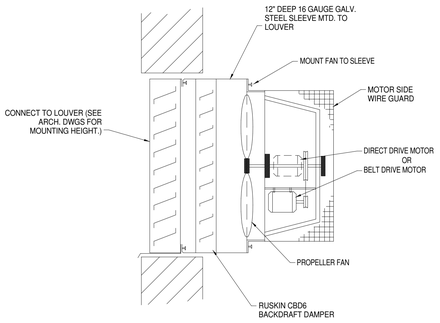
FAN DISCHARGE ARRANGEMENT DETAIL (LINED DUCT)

NO SCALE



SIDEWALL EXHAUST FAN

NO SCALE



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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	STB
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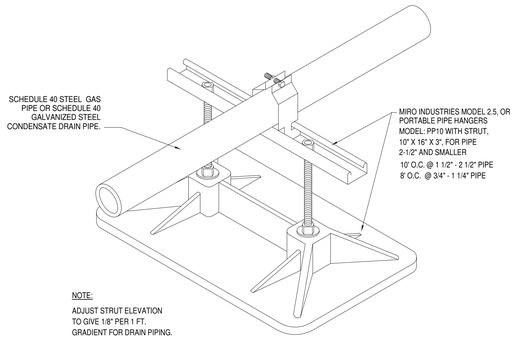
GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
HVAC DETAILS

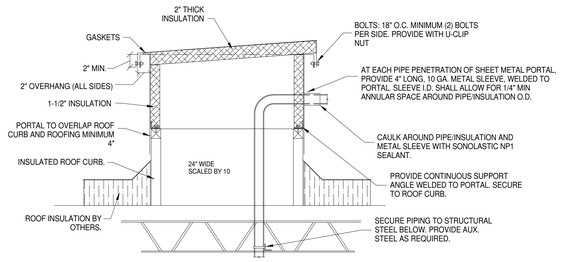
SHEET NO. M501

PROJ. NO. 2037

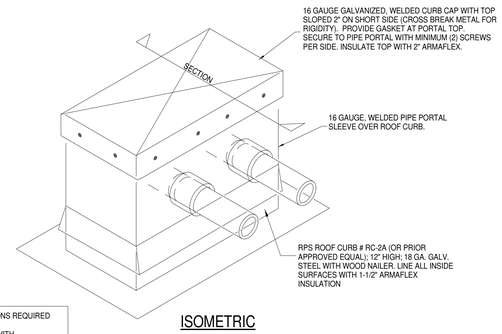


ROOF PIPE SUPPORT DETAIL

NO SCALE



SECTION

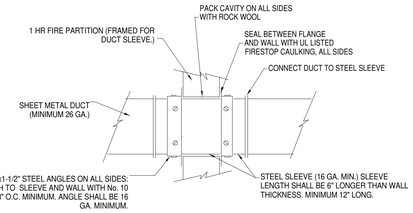


ISOMETRIC

NOTES:
- SEE FLOOR PLANS FOR PORTAL SIZE AND NUMBER OF PIPE PENETRATIONS REQUIRED AT EACH PORTAL.
- COORDINATE LOCATIONS FOR POWER/CONTROLS CONDUIT OPENINGS WITH ELECTRICAL AND CONTROLS CONTRACTORS.
- ELECTRICAL AND CONTROLS CONDUIT MAY PENETRATE PIPE PORTAL USING A LIQUIDTIGHT FITTING IN LIEU OF 10 GAUGE METAL SLEEVE.
- ALL WELDS SHALL BE COATED WITH A GALVANIZED FINISH.

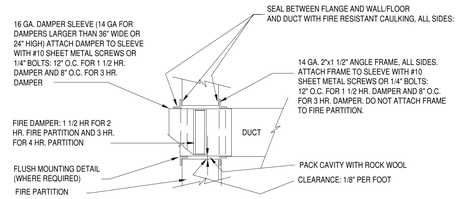
ROOF PIPE PENETRATION DETAIL

NO SCALE



DUCT CLOSURE DETAIL AT ALL PENETRATIONS OF ONE HOUR FIRE PARTITIONS NOT REQUIRING DAMPERS, PENETRATIONS OF SMOKE BARRIERS, OR PENETRATIONS OF SOUND WALLS.

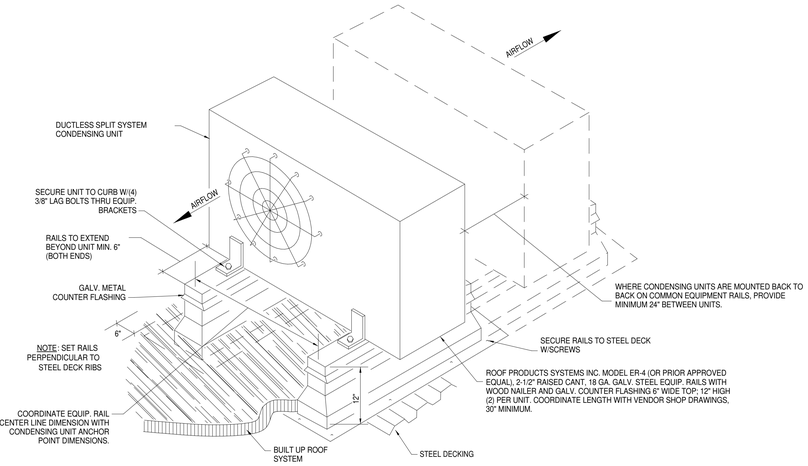
NO SCALE



FIRE DAMPER INSTALLATION DETAIL

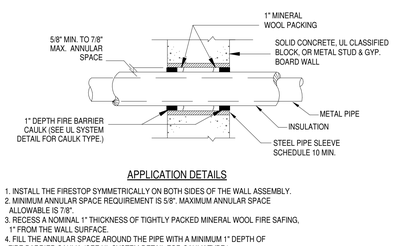
APPLIES TO FIRE WALL, FIRE BARRIER, OR FIRE PARTITION.
NO SCALE

NOTES:
1) FIRE DAMPER SHALL BE SIZED FOR METAL TO METAL DUCT DIMENSIONS. PARTITION OPENING SHALL BE SIZED FOR 1/8" CLEARANCE PER FOOT OF WIDTH OR HEIGHT.
2) REFER TO MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL DETAIL.
3) ALTERNATE INSTALLATION DETAILS SHALL BE ACCEPTABLE IF SHOWN TO BE IN COMPLIANCE WITH NFPA 90A & MFR'S LISTING.
4) FOR INSULATED DUCTS: WRAP EXPOSED PORTION OF SLEEVE WITH 2" THICK, 3/4 PCF DENSITY FIBERGLASS INSULATION WITH FOIL FACING, STAPLE AND SEAL WITH FABRIC AND MASTIC.
5) ACCESS DOOR WHERE REQUIRED, SEE SPECIFICATIONS.



ROOF MOUNTING DETAIL FOR DSS CONDENSING UNITS

NO SCALE



APPLICATION DETAILS

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS 5/8". MAXIMUM ANNULAR SPACE ALLOWABLE IS 7/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF FIRE BARRIER CAULK. (SEE UL SYSTEM DETAIL FOR CAULK TYPE.)

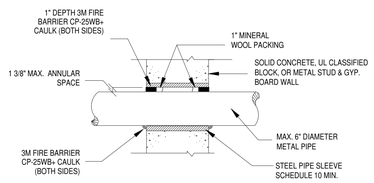
NOTE: FOR PIPE INSULATED WITH RUBBER BASED FLEXIBLE INSULATION, INSTALL A FIBERGLASS INSERT AT THE FIRE WALL PENETRATION IN LIEU OF THE FLEXIBLE RUBBER INSULATION. (THE FIBERGLASS INSERT SHALL BE THE SAME THICKNESS AS THE RUBBER BASED INSULATION.) THE FIBERGLASS INSERT SHALL EXTEND 6" (MIN.) ON EACH SIDE OF FIRE WALL.

INSULATED PIPE (1, 2, 3 OR 4 HR)

UL SYSTEM #CBJ5002
(FOR PIPING LARGER THAN 6" USE UL SYSTEM #CBJ5OO3)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE



APPLICATION DETAILS

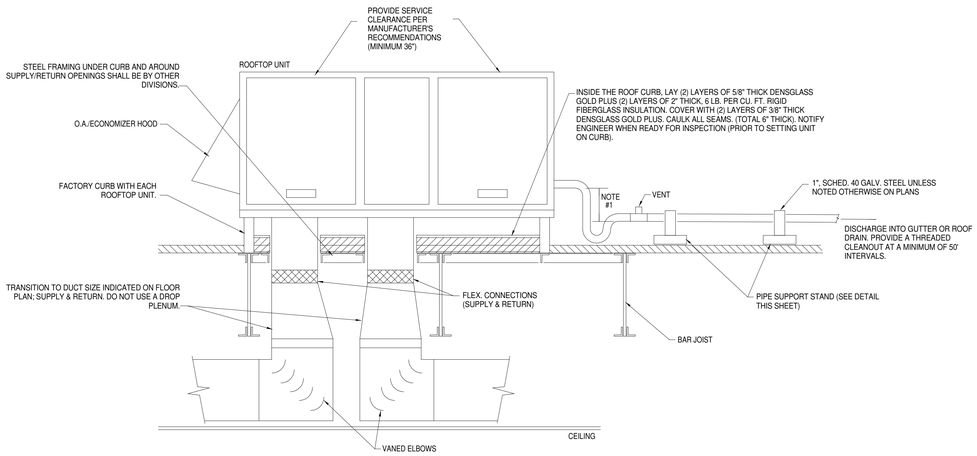
1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE REQUIREMENT IS ZERO, POINT CONTACT. MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. RECESS A NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL FIRE SAFING, 1" FROM THE WALL SURFACE.
4. FILL THE ANNULAR SPACE AROUND THE PIPE WITH A MINIMUM 1" DEPTH OF 3M FIRE BARRIER CP-25WB+ CAULK.

UNINSULATED PIPE (1, 2, 3, OR 4 HR)

(UL SYSTEM #CAJ1044)

DETAIL OF PIPE PENETRATION OF ALL FIRE RATED FLOORS & PARTITIONS

NO SCALE



ROOFTOP WSHP UNIT DETAIL

NO SCALE

NOTES: 1.) DISTANCE SHALL BE 2" OR 1/2" GREATER THAN THE FAN SUCTION PRESSURE (WHICH EVER IS GREATER).

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DRAWN BY: Author

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HVAC DETAILS

SHEET NO. M502

PROJ. NO. 2037

1 SYMBOL LEGEND
12" = 1'-0"

⊖	20A, 125V, 2P, 3W, NEMA 5-20R, TAMPER-RESISTANT DUPLEX RECEPTACLE MTD. 18" ABOVE FLOOR UNLESS NOTED OTHERWISE. SEE ABBREVIATIONS BELOW FOR DESIGNATIONS: ACH - 4" ABOVE COUNTER OR BACKSPLASH HEIGHT. VERIFY WITH ARCHITECTURAL DRAWINGS. C - COPIER. D - DEDICATED CIRCUIT. EWC - ELECTRIC WATER COOLER. F - REFRIGERATOR; 42" AFF. G - GROUND FAULT INTERRUPTER. TV - TELEVISION. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. W - WASHING MACHINE; 42"AFF. WP - WEATHERPROOF IN USE. V - VENDING MACHINE; 42" AFF. R - RECEPTACLE MOUNTED ON ROOF. DW - RECEPTACLE MOUNTED IN CABINETRY FOR DISHWASHER.
⊕	SAME AS ⊖ ABOVE EXCEPT QUADRUPLEX TYPE.
⊖	SAME AS ⊖ ABOVE EXCEPT BOTTOM OF OUTLET MOUNTED 4" ABOVE COUNTER HEIGHT, COORDINATE WITH CABINETRY DETAILS.
FB	FLUSH FIRE PROOF FLOOR BOX FOR POWER AND COMMUNICATION SYSTEMS. PROVIDE MULTI COMPARTMENT FLOOR BOX, (LEGRAND, RESOURCE RFB SERIES CONCRETE FLOOR BOX OR EQUAL), WITH CAST ALUMINUM COVERPLATE CAPABLE OF (2) POWER OUTLETS AND PROVISIONS FOR A (2)-1" CONDUITS FOR TELECOMMUNICATIONS. TELECOMMUNICATIONS JACKS, CAT6A CABLES AND BOX COVER BY ELECTRICAL CONTRACTOR. ALL CONDUITS TO AND FROM FLOOR BOX SHALL BE INSTALLED BELOW SLAB/FLOOR. VERIFY LOCATION WITH ARCHITECTURAL DIMENSIONAL PLANS PRIOR TO INSTALLATION.
CR	120V CEILING MOUNTED CORD REEL (ERICSON 3000, WHITE) SECURELY FASTENED TO CEILING AS REQUIRED. FURNISH AND INSTALL CEILING MOUNTED RECEPTACLE FOR CONNECTION TO CORD REEL. CORD REEL SHALL HAVE INTEGRAL CORD AND PLUG.
◁	DRYER RECEPTACLE. VERIFY ELECTRICAL EQUIPMENT REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO INSTALLATION. MOUNTED AT 42"AFF AND 3#10,#10G-3/4"C.
◀	RANGE RECEPTACLE. VERIFY ELECTRICAL EQUIPMENT REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO INSTALLATION. MOUNTED AT 42"AFF AND 3#8,#8G-3/4"C.
Ⓙ	JUNCTION BOX WITH COVER PLATE. SIZE AS REQUIRED TO FIT APPLICATION.
▭	2'x4' CEILING MOUNTED LIGHT FIXTURE PER FIXTURE SCHEDULE.
⧅	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP.
◩	SAME AS ABOVE EXCEPT UNSWITCHED FOR NIGHT LIGHTING , FED FROM EMERGENCY GENERATOR AND INTEGRAL 90 MINUTE BATTERY BACK-UP.
⊢○⊣	4' LINEAR STRIP LIGHT FIXTURE. LENGTH AS INDICATED
⊢●⊣	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP.
⊢○⊣	SAME AS ABOVE EXCEPT UNSWITCHED FOR NIGHT LIGHTING , FED FROM EMERGENCY GENERATOR AND INTEGRAL 90 MINUTE BATTERY BACK-UP.
▭	LINEAR WALL MOUNTED LIGHT FIXTURE PER FIXTURE SCHEDULE.
⧅	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP.
◩	SAME AS ABOVE EXCEPT UNSWITCHED FOR NIGHT LIGHTING , FED FROM EMERGENCY GENERATOR AND INTEGRAL 90 MINUTE BATTERY BACK-UP.
○	RECESSED DOWNLIGHT PER FIXTURE SCHEDULE.
⊘	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP.
—	LINEAR PENDANT MOUNTED LIGHT FIXTURE PER FIXTURE SCHEDULE.
— G	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP. FIXTURE TAGGED WITH FIXTURE TYPE AND A 'G' AT THE END.
— NL	SAME AS ABOVE EXCEPT UNSWITCHED FOR NIGHT LIGHTING , FED FROM EMERGENCY GENERATOR AND INTEGRAL 90 MINUTE BATTERY BACK-UP. TAGGED WITH FIXTURE TYPE A 'NL' AT THE END.
▭	WALL MOUNTED EXTERIOR AREA LIGHT FIXTURE, UL WET LOCATION RATED.
⧅	SAME AS ABOVE EXCEPT FED FROM EMERGENCY GENERATOR CIRCUIT AND SWITCHED WITH NORMAL POWER ROOM FIXTURES. PROVIDE FIXTURE WITH EMERGENCY BY-PASS RELAY DEVICE CAPABLE OF TURNING FIXTURE ON IN EMERGENCY SITUATIONS REGARDLESS OF SWITCH POSITION. PROVIDE FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK-UP.
⊗	EMERGENCY TYPE EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE CONTINUOUS HOT LEAD TO FIXTURE FED FROM EMERGENCY GENERATOR. "W" INDICATES SIGN EQUIPPED WITH WIRE GUARD. "WP" INDICATES WEATHERPROOF FIXTURE.
S	SINGLE POLE LIGHTING SWITCH, 48" AFF, 120/277 VOLT, 20 AMP, SPEC GRADE, "T" RATED. 'WP' INDICATES WEATHERPROOF ENCLOSURE.
S3	SAME AS "S" ABOVE EXCEPT "3" IN SUBSCRIPT DENOTES 3-WAY SWITCH.
Sa	SAME AS "S" ABOVE EXCEPT "a" IN SUBSCRIPT DENOTES CONTROLLING SWITCH FOR SPECIFIC FIXTURES MARKED THE SAME.
SD	LED SLIDE TYPE DIMMER SWITCH.
SD3	SAME AS "SD" ABOVE EXCEPT "3" IN SUBSCRIPT DENOTES 3-WAY DIMMER.
PS	PASSIVE INFRARED AUTOMATIC OCCUPANCY SENSOR, WALL MOUNTED AT 4'-0" UNLESS NOTED OTHERWISE (WATTSTOPPER #PW-200). COORDINATE WITH OWNERS REPRESENTATIVE FOR USER-SET, TIME DELAY OFF REQUIREMENTS.
SDL	SWITCH FOR DISPOSER, MOUNTED ABOVE COUNTER.
OC→	DENOTES DUAL PASSIVE INFRARED AND ULTRASONIC WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER #DT-200). PROVIDE QUANTITY OF POWER PACKS REQUIRED FOR CONTROL OF FIXTURES IN AREA SHOWN. COORDINATE WITH OWNERS REPRESENTATIVE FOR USER-SET, TIME DELAY FOR OFF REQUIREMENTS.
OC ←OC→	DENOTES DUAL PASSIVE INFRARED AND ULTRASONIC CEILING MOUNTED OCCUPANCY SENSOR (WATTSTOPPER #DT-300). ARROWS INDICATE HALLWAY APPLICATION. PROVIDE QUANTITY OF POWER PACKS REQUIRED FOR CONTROL OF FIXTURES IN AREA SHOWN. COORDINATE WITH OWNERS REPRESENTATIVE FOR USER-SET, TIME DELAY FOR OFF REQUIREMENTS.
EBR	EMERGENCY BY-PASS RELAY (LVS: EPC-A-2 (OR EQUAL)).
EBR-D	DIMMABLE EMERGENCY BY-PASS RELAY (LVS: EPC-A-2-D (OR EQUAL)).
A-7	HOMERUN TO ELECTRICAL PANEL. HOMERUN NOTE (A-7) INDICATES PANEL DESIGNATION AND RELATIVE CIRCUIT NUMBER. UNLESS NOTED OTHERWISE, CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT. HATCH MARKS INDICATE THE QUANTITY OF CONDUCTORS REQUIRED. SHORT HATCH MARKS REPRESENT HOT CONDUCTORS OR SWITCHED LEGS. LONG HATCH MARKS REPRESENT THE NEUTRAL CONDUCTOR. ALL BRANCH CIRCUITS SHALL CONTAIN A #12 INSULATED GREEN GROUND CONDUCTOR. PROVIDE ALL WIRING REQUIRED TO ACCOMPLISH CIRCUITRY AS INDICATED. NO HATCH MARKS INDICATE 2#12,#12G-3/4"C. "TIE" - INDICATES SHARED CIRCUIT.
⌒	BRANCH CIRCUIT WIRING CONCEALED IN WALL OR CEILING SPACE.
╌	BRANCH CIRCUIT WIRING CONCEALED IN FLOOR OR UNDERGROUND.
●	CONDUIT RUN TURNED DOWN OR AWAY FROM OBSERVER.
○	CONDUIT RUN TURNED UP OR TOWARDS OBSERVER.
⊣	CAPPED CONDUIT.
∿	FLEXIBLE CONNECTION TO EQUIPMENT.
▨	ELECTRICAL PANEL, 208/120V, MOUNTING AS INDICATED. COORDINATE EXACT LOCATION IN FIELD.
▭	ELECTRICAL PANEL, 480/277V, MOUNTING AS INDICATED. COORDINATE EXACT LOCATION IN FIELD.
T	DRY TYPE TRANSFORMER WITH NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE. SEE TRANSFORMER SCHEDULE FOR MORE DETAILS.
S 30/2/F	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, 2 INDICATES NUMBER OF POLES, "F" INDICATES FUSED, "NF" INDICATES NON-FUSED. ENCLOSURE TO BE NEMA 1 UNLESS NOTED OTHERWISE (3R, 4X, ETC.) FUSE PER MANUFACTURERS RECOMMENDATIONS.
Sm	MANUAL MOTOR STARTER WITH OVERLOADS (TOGGLE TYPE). PROVIDE NEMA 3R TYPE IF EXPOSED TO WEATHER. 20A UNLESS NOTED OTHERWISE.
DS	LOCAL 120V TOGGLE TYPE EQUIPMENT DISCONNECT. RATED 20A, UNLESS NOTED OTHERWISE.
FACP	FIRE ALARM VOICE EVACUATION PANEL. SEE FIRE ALARM RISER DIAGRAM.
FAAP	FIRE ALARM ANNUNCIATOR. COORDINATE WITH LOCAL FIRE MARSHALL FOR EXACT LOCATION.
FAKB	FIRE ALARM KNOCK BOX. PROVIDE W/TAMPER SWITCH, TIE TO SECURITY SYSTEM. COORDINATE WITH LOCAL FIRE MARSHALL FOR EXACT LOCATION.
FARP	FIRE ALARM REMOTE PANEL. SEE FIRE ALARM RISER DIAGRAM.
H	FIRE ALARM CEILING MOUNTED HEAT DETECTOR.
S A	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR. 'A' INDICATES AUXILIARY CONTACTS.
D	DUCT DETECTOR, FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.
F	FIRE ALARM PULL STATION MOUNTED AT 48" AFF TO TOP OF DEVICE.
▷S	FIRE ALARM SPEAKER/STROBE UNIT MOUNTED AT 84" AFF TO TOP OF DEVICE. 'WP' INDICATES WEATHERPROOF.
○FB	FIRE ALARM SPRINKLER BELL LOCATED OUTSIDE SPRINKLER RISER ROOM. PROVIDE ALL NECESSARY CONNECTIONS FOR PROPER ANNUNCIATION UPON SPRINKLER ACTIVATION.
DH	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE. TIE TO NEAREST 120V EMERGENCY POWER.
TS	FIRE ALARM TAMPER SWITCH
FS	FIRE ALARM WATER FLOW SWITCH
R	FIRE ALARM RELAY IAM.
M	FIRE ALARM MONITORED ZAM.
NAC	FIRE ALARM NOTIFICATION APPLIANCE PANEL.
SYN	SYNCHRONIZATION MODULE
PIV	PIV VALVE
BFP	BACK FLOW PREVENTER
I	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE..
HD	120V HAND DRYER. PROVIDE DUAL GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND W/ 2#10,#10G-3/4"C TO PANEL INDICATED ON DRAWINGS. VERIFY MOUNTING HEIGHT, CONNECTION REQUIREMENTS, AND CIRCUIT SIZE WITH VENDOR AND ARCHITECT PRIOR TO INSTALLATION.
HH	PULLING BOX HAND HOLE WITH HEAVY DUTY COVER, SIZE PER NEC.
GA	GENERATOR REMOTE ALARM ANNUNCIATOR LOCATED IN FRONT ENTRANCE PER PLANS.
EPO	EMERGENCY POWER "OFF" OR SHUTDOWN SWITCH, 120V, 1 PHASE. SEE PANEL SCHEDULES FOR BRANCH CIRCUIT REQUIREMENTS AND WIRING DIAGRAM FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION WITH ARCHITECT AND SCHOOL PERSONNEL.
WSV	WATER SOLENOID VALVE (FBO). PROVIDE POWER TO VALVE FROM DESIGNATED PANEL AND CIRCUIT SHOWN ON DRAWINGS. SEE WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
GSV	GAS SOLENOID VALVE (FBO). PROVIDE POWER TO VALVE FROM DESIGNATED PANEL AND CIRCUIT SHOWN ON DRAWINGS. SEE WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
SACP	EXISTING SECURITY ALARM CONTROL PANEL LOCATED IN PHASE 1 CLASSROOM ADDITION. FIELD COORDINATE EXACT LOCATION.
PLEP	POLLING LOOP EXTENDER/ISOLATOR PANEL.
PIR	WALL/CEILING MOUNTED PASSIVE INFRARED DETECTOR (HONEYWELL DT8050A-SN). DUAL GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING, 18 AWG, 1 PAIR, PLENUM RATED CABLING TERMINATED ONTO DEVICE AND ROUTED IN 3/4" CONDUIT TO CABLE TRAY. CABLING SHALL ROUTE VIA CABLE TRAY AND TERMINATE TO LOCAL DATA CLOSET POLLING LOOP EXTENDER/ISOLATOR PANEL. PROVIDE ALL CONNECTIONS REQUIRED.
DAC	POWER OVER ETHERNET (POE) DOOR ACCESS CONTROL PANEL (PAXTON 682-630-US) MOUNTED ABOVE DOOR SERVED. SEE RISER DIAGRAM ON SHEET E115 FOR ADDITIONAL INFORMATION.
CR	CARD READER (PAXTON MULLION READER 345-220-US-P50M) 48" AFF, UNO. SEE RISER DIAGRAM ON SHEET E115 FOR ADDITIONAL INFORMATION.
⊡	CLOSED CIRCUIT TELEVISION SECURITY CAMERA MOUNTED ON CEILING AND/OR WALL. DUAL GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING MOUNTED ABOVE CEILING ADJACENT TO CAMERA LOCATION, COVERPLATE, AND (1) CAT6A DATA CABLE TERMINATED ONTO DATA JACK AND ROUTED IN 3/4" CONDUIT TO CORRIDOR. CABLE SHALL ROUTE VIA J-HOOKS (3'-0" ON CENTER) AND TERMINATE ONTO LOCAL PATCH PANEL. CAMERA PROVIDED AND INSTALLED BY SCHOOL DISTRICTS SPECIAL SYSTEMS INSTALLER. RACEWAY, DATA JACK, CABLING, COVER PLATE, AND ALL TERMINATIONS BY ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATIONS WITH SCHOOL DISTRICTS INFORMATION TECHNOLOGY DIRECTOR PRIOR TO ROUGH-IN. 'WP' INDICATES WEATHER-PROOF.
DR	DOOR RELEASE SWITCH. MOMENTARY BUTTON TYPE SWITCH LOCATED BY SCHOOL DISTRICTS REPRESENTATIVE FOR DEACTIVATION OF ELECTRIC STRIKE/LATCH. SYSTEM BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER. PROVIDE ALL MATERIAL AND LABOR REQUIRED FOR A COMPLETE SYSTEM.
PA	PANIC ALARM SWITCH. MOMENTARY BUTTON TYPE SWITCH LOCATED BY SCHOOL DISTRICTS REPRESENTATIVE. SYSTEM SHALL BE CAPABLE OF REMOTE DIAL OF 911 EMERGENCY SERVICES AS WELL AS PROVIDE LOCKDOWN OF ALL PERIMETER DOORS. SYSTEM BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER. PROVIDE ALL MATERIAL AND LABOR REQUIRED FOR A COMPLETE SYSTEM.
▭ CT-18	WIRE BASKET CABLE TRAY W/ 3 SECTION DIVIDER (FURNISHED AND INSTALLED BY DATA CABLING INSTALLER). "CT-18" DENOTES 18" X 6" CABLE TRAY. SEE WIRE BASKET TRAY DETAILS FOR ADDITIONAL INFORMATION. ALL CABLE TRAY SHALL BE PROPERLY GROUNDED PER MANUFACTURES SPECIFICATIONS BY ELECTRICAL CONTRACTOR. IN ADDITION, ELECTRICAL CONTRACTOR SHALL PROVIDE WALL PENETRATIONS FOR WIRE BASKET TRAY (SEE WIRE BASKET TRAY DETAILS FOR ADDITIONAL INFORMATION). CONDUIT TERMINATING TO TRAY SHALL HAVE GROUNDING TYPE END BUSHING AND ATTACHED TO TRAY.
EZ33	FIREWALL PENETRATION; SPECIFIED TECHNOLOGIES EZ-PATH 4 GANG EZDP433GK-C W/ (8) RADIUS CONTROL MODULES (RCM33) FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE LOCATIONS WITH DATA CABLING INSTALLER.
MGB	TELECOMMUNICATIONS MAIN GROUND BUS. SEE GROUNDING DETAILS.
TGB	TELECOMMUNICATIONS GROUND BUS. SEE GROUNDING DETAILS.
▯	FLOOR MOUNTED DATA RACK BOLTED TO FLOOR WITH FULL DOUBLE SIDED VERTICAL CABLE MANAGEMENT. INCLUDE LADDER RACK LATERAL WALL SUPPORT. RACK AND EQUIPMENT (FURNISHED AND INSTALLED BY SPECIAL SYSTEMS INSTALLER. RACK SHALL BE GROUNDED TO ROOM TELECOMMUNICATIONS GROUND BUS 'TGB' VIA #6AWG GREEN INSULATED GROUND. SEE DRAWING E117 FOR ADDITIONAL INFORMATION.
TS	TOUCH SCREEN POWER INTERFACE BOX (HUBBELL ADVANTAGE FLAT PANEL CONNECTION ENCLOSURE WITH BLOCK WALL ADAPTER ACCESSORY, OR EQUAL). SEE DRAWING E114 FOR ADDITIONAL INFORMATION. COORDINATE WITH SCHOOLS REPRESENTATIVE FOR ADDITIONAL INFORMATION AND REQUIREMENTS NOT SHOWN ON THESE PLANS.
TAV	TOUCH SCREEN AUDIO/VIDEO/DATA INTERFACE BOX (HUBBELL ADVANTAGE FLAT PANEL CONNECTION ENCLOSURE WITH BLOCK WALL ADAPTER ACCESSORY, OR EQUAL). SEE DRAWING E110 FOR ADDITIONAL INFORMATION. COORDINATE WITH SCHOOLS REPRESENTATIVE FOR ADDITIONAL INFORMATION AND REQUIREMENTS NOT SHOWN ON THESE PLANS.
TD	TEACHER DESK AUDIO/VIDEO/DATA INTERFACE CONNECTION MOUNTED AT 18"AFF. DUAL GANG DEEP JUNCTION BOX WITH SINGLE GANG PLASTER RING AND STAINLESS COVER-PLATE. SEE DRAWING E114 FOR ADDITIONAL INFORMATION.
JB1	12"X12"X8" JUNCTION BOX W/ COVER MOUNTED ABOVE CEILING FOR LOW VOLTAGE CABLE MANAGEMENT. SEE DRAWING E114 FOR ADDITIONAL INFORMATION.
▽	DATA/PHONE OUTLET 18" AFF, UNO. DUAL GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING, COVERPLATE, AND QUANTITY OF PLENUM RATED CAT 6A DATA CABLE(S) (BLUE JACKET) TERMINATED ONTO DATA JACK(S) AND ROUTED IN 1" CONDUIT TO CABLE TRAY. CABLING SHALL ROUTE VIA CABLE TRAY AND TERMINATE TO LOCAL DATA CLOSET PATCH PANEL. '3' INDICATES QUANTITY OF CABLES AND JACKS. IF A NUMBER IS NOT PRESENT ASSUME (1) CAT6A CABLE FOR DATA AND (1) CAT6A CABLE FOR VOICE. "ACH" INDICATES 4" ABOVE COUNTER HEIGHT. RACEWAY, JACKS, CABLING, COVER PLATE, AND ALL TERMINATIONS BY ELECTRICAL CONTRACTOR'S SPECIAL SYSTEMS INSTALLER.
▼	SAME AS DATA/PHONE JACK ABOVE EXCEPT DATA ONLY.
FB ▼ ▽	SAME AS DATA/PHONE JACK ABOVE EXCEPT MOUNTED INSIDE FLOORBOX.
AP	CEILING MOUNTED WIRELESS ACCESS POINT. PROVIDE (1) PLENUM RATED CAT 6A DATA CABLE (PURPLE JACKET) TERMINATED ONTO CAT 6A DATA JACK AND ROUTED IN 3/4" CONDUIT TO CABLE TRAY. CABLING SHALL ROUTE VIA CABLE TRAY AND TERMINATE TO LOCAL DATA CLOSET PATCH PANEL. RACEWAY, DATA JACK, CABLE, COVER PLATE, AND ALL TERMINATIONS BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER.
IS	EXISTING INTERCOM SYSTEM HEAD-END (VALCOM MULTI-PATH). PROVIDE ALL REQUIRED UPGRADES TO ACCOMMODATE NEW ADDITION.
S	2'X2' LAY IN 8 OHM PAGING INTERCOM SPEAKER W/ TRANSFORMER AND 3/4" CONDUIT WITH CAT6 PLENUM RATED CABLE ROUTED TO CABLE TRAY AND TERMINATING TO LOCAL IDF CLOSET 66 BLOCKS. DEVICE AND CABLE BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER.
S WP	WALL MOUNTED 8 OHM PAGING SPEAKER W/ TRANSFORMER, BACK BOX, 3/4" CONDUIT WITH CAT 6 PLENUM RATED CABLE ROUTED TO CABLE TRAY AND TERMINATING TO LOCAL IDF CLOSET 66 BLOCKS. 'WP' INDICATES WEATHERPROOF. COLOR BY ARCHITECT. DEVICE AND CABLE BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER.
V	VOLUME CONTROL FOR ROOM INTERCOM SPEAKER. GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING WITH 3/4" CONDUIT AND PLENUM RATED CAT 6A CABLING TO ROOM SPEAKER. DEVICE AND CABLE BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER.
ICS	INTERCOM CALL STATION (PART:TBD). DUAL GANG JUNCTION BOX WITH 3/4" CONDUIT AND PLENUM RATED WIRING ROUTED TO CABLE TRAY AND TERMINATING TO LOCAL IDF CLOSET 66 BLOCKS. DEVICE AND CABLE BY ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER.

2 GENERAL NOTES
12" = 1'-0"

1. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS. ELECTRICAL WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL AND MECHANICAL CONSTRUCTION. ANY CORRECTIONS WILL BE MADE BY THE ELECTRICAL CONTRACTOR AT NO COST TO THE OWNER.
2. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE IBC AND THE NATIONAL ELECTRICAL CODE, LATEST EDITIONS, AND ALL APPLICABLE STATE AND LOCAL CODES. ALL WORK SHALL BE ACCOMPLISHED IN A NEAT AND PROFESSIONAL MANNER.
3. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE U/L LABEL.
4. CONTRACTOR SHALL CONFIRM BRANCH CIRCUIT SIZING, LOCATIONS AND CONNECTION REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. ANY ADJUSTMENTS REQUIRED SHALL BE MADE BY THE ELECTRICAL CONTRACTOR. SUBSTANTIAL CHANGES TO THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
5. ALL TERMINALS SHALL BE RATED FOR 75 DEGREES CELSIUS COPPER WIRE.
6. RECEPTACLES SHALL BE OF THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO THE RACEWAY AND GROUNDING SYSTEMS. COVERPLATES FOR ALL WIRING DEVICES TO BE JUMBO STAINLESS STEEL.DETERMINE THE COLOR OF ALL WIRING DEVICES W/ARCHITECT.
7. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE IN ALL RESPECTS PER FIXTURE SCHEDULE. VERIFY CEILING FINISHES AND SUSPENSION SYSTEMS FOR SELECTION OF PROPER TRIM AND SUPPORT ARRANGEMENTS. INSTALL ALL LIGHT FIXTURES WITH LAMPS AS REQUIRED.
8. RECESSED FIXTURES MOUNTED IN GRID CEILING SHALL BE SECURELY FASTENED TO THE GRID BY A MECHANICAL MEANS THAT COMPLIES WITH REQUIREMENTS FOR SEISMIC EVENTS PER IBC 1621 AND ASCE 7-16. THE GRID SHALL BE ABLE TO SUPPORT THE WEIGHT OF THE FIXTURE, AND SHALL BE SECURED TO TRUE STRUCTURE AS REQUIRED. ALL EMERGENCY AND EXIT FIXTURES SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE BY A MECHANICAL MEANS THAT COMPLIES WITH THE SAME STIPULATIONS AS ABOVE.
9. ALL WIRING SHALL BE CONCEALED WHERE POSSIBLE AND INSTALLED IN SUITABLE RACEWAYS. EMT SHALL BE USED (3/4" MIN) FOR LIGHTING AND POWER BRANCH CIRCUITRY. EMT SHALL BE USED EMT SHALL BE USED FOR EQUIPMENT FEEDERS. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. 'MC' CABLE SHALL BE ALLOWED IN STUD WALLS ONLY. UL MANUFACTURED LIGHTING WHIPS SHALL BE ALLOWED.
10. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE SEALED USING APPROVED MATERIALS AND METHODS TO MAINTAIN THE ORIGINAL FIRE-RESISTANCE RATING.
11. RECEPTACLES INSTALLED BACK TO BACK IN FIRE RATED WALLS SHALL BE A MINIMUM OF 24" APART AND SHALL NOT OCCUPY THE SAME STUD CAVITY.
12. DISCONNECT SWITCHES SHALL BE FURNISHED AS SHOWN ON THE DRAWINGS WITH VOLTAGE RATING, AMPERAGE RATING AND NUMBER OF POLES AS INDICATED. PROVIDE NEMA 3R TYPE WHERE EXPOSED TO WEATHER. PROVIDE HEAVY DUTY TYPE SWITCHES.
13. FUSES FOR FUSIBLE SWITCHES SHALL BE OF THE DUAL ELEMENT, REJECTION TYPE.
14. DISCONNECT SWITCHES SHALL HAVE EXTERNAL SWITCH HANDLE, SWITCH AND DOOR SHALL BE INTERLOCKED SUCH THAT THE DOOR CAN NOT BE OPENED UNLESS THE SWITCH IS IN THE OPENED POSITION.
15. ALL WIRE SHALL BE SINGLE CONDUCTOR STRANDED, COPPER SIZED AS INDICATED ON THE DRAWINGS. MINIMUM SIZE SHALL BE #12 AWG.
16. SOLID WIRE MAY BE USED FOR #12 AND #10 AWG WIRE USED ON LIGHTING FIXTURES, RECEPTACLES AND SWITCHES ONLY.
17. INSULATION OF WIRE SHALL BE 75 DEGREES CELSIUS (THHN, THWN), 600 VOLT.
18. UNLESS INDICATED ON THE DRAWINGS, ALL WIRING SHALL BE #12 AWG. CONTRACTOR SHALL CONFIRM AND ROUTE THE PROPER QUANTITY OF WIRES AND SIZE OF CONDUIT TO FIT THE APPLICATION AND THE CIRCUITRY INDICATED.
19. CONTRACTOR SHALL PROVIDE A PROPERLY SIZED, GREEN COLORED INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS. THIS CONDUCTOR IS NOT INDICATED IN THE HASH MARKS ON THE CONDUIT RUNS ON THE PLANS.
20. INSTALL A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NEC ARTICLE 250 AND THESE SPECIFICATIONS. GROUNDING SYSTEM SHALL BE ELECTRICALLY CONTINUOUS THOUGHOUT.
21. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE LOCAL POWER AND TELEPHONE UTILITY COMPANIES FOR ALL COST REQUIREMENTS AND METHODS FOR THE NEW SERVICES INDICATED. PROVIDE ALL MATERIALS AND LABOR AS DIRECTED BY THE LOCAL UTILITY SERVICES FOR A COMPLETE AND OPERABLE INSTALLATION.
22. PANELBOARDS SHALL BE PROVIDED WITH DISTRIBUTIVE PHASING AND RATINGS AND BREAKER REQUIREMENTS AS PER SCHEDULES. LABEL ALL PANELS AND PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES. PROVIDE PERMANENT LABELING ON ALL ELECTRICAL EQUIPMENT TO INCLUDE THE EQUIPMENT DESIGNATION, VOLTAGE, PHASE AND THE PANEL FROM WHICH IT IS BEING FED FROM. IN ADDITION THE CONTRACTOR IS TO PERMANENTLY LABEL EACH RECEPTACLE WITH ITS PANEL DESIGNATION AND CIRCUIT NUMBER.
23. THE SHORT CIRCUIT RATING OF ALL SERVICE EQUIPMENT AND PANELBOARDS SHALL BE NO LESS THAN THAT INDICATED ON THE PANEL SCHEDULES UNLESS BEFORE PURCHASING EQUIPMENT, THE ELECTRICAL CONTRACTOR CONTACTS THE LOCAL UTILITY COMPANY PROVIDING SERVICE AND OBTAIN IN WRITING THE MAXIMUM SHORT CIRCUIT CURRENT SUPPLIED TO THE SERVICE EQUIPMENT. ALL EQUIPMENT SHALL BE RATED AND COORDINATED TO NO LESS THAN THAT SUPPLIED.
24. TRANSFORMERS SHALL BE FLOOR MOUNTED, GENERAL PURPOSE DRY TYPE AND OF THE KVA RATING AS INDICATED ON THE PLANS. ALL SHALL BE VENTILATED, 150°C TEMP RISE, CORE AND COIL ASSEMBLIES MOUNTED ON RUBBER ISOLATION PADS TO MINIMIZE THE SOUND LEVEL. SQUARE "D" CALSS 7410 SERIES OR EQUAL.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, WIRE, AND FIXTURES NOT RE-USED IN THE RENOVATION OR INTERFERING WITH CONSTRUCTION. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO EXAM THE EXISTING FACILITY TO BETTER UNDERSTAND THE EXTENT OF THE DEMOLITION AND EXISTING CONDITIONS.
26. CONTRACTOR SHALL CARRY AN ALLOWANCE AND WILL BE RESPONSIBLE FOR ENGAGING A TESTING AGENCY IF AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IS REQUIRED FOR THE FACILITY. IF REQUIRED, CONTRACTOR SHALL FURNISH AND INSTALL SYSTEM PER INTERNATIONAL FIRE CODE (IFC) SECTION 510.

3 WIRING METHODS AND NOTES
12" = 1'-0"

FEEDER/CIRCUIT TYPE	WIRING METHOD
UNDERGROUND SERVICE ENTRANCE-5' OR MORE BEYOND BLDG	CONCRETE ENCASED SCHEDULE 40 PVC CONDUIT. MINIMUM DEPTH SHALL BE 24" BELOW GRADE.
UNDERGROUND SERVICE ENTRANCE-WITHIN 5' OR UNDER BLDG	CONCRETE ENCASED SCHEDULE 80 PVC CONDUIT. MINIMUM DEPTH SHALL BE 24" BELOW FLOOR SLAB.
UNDERGROUND FEEDER-5' OR MORE BEYOND BLDG	CONCRETE ENCASED PVC DUCT,
UNDERGROUND FEEDER-WITHIN 5' OR UNDER BLDG	CONCRETE ENCASED PVC CONDUIT, SCHEDULE 80. MINIMUM DEPTH SHALL BE 30" BELOW BOTTOM OF FLOOR SLAB
UNDERGROUND BRANCH CIRCUIT-5' OR MORE BEYOND BUILDING	DIRECT BURIED PVC CONDUIT, SCHED 40. MINIMUM DEPTH SHALL BE 24" BELOW GRADE
UNDERGROUND BRANCH CIRCUIT-WITHIN 5' OR UNDER BUILDING	DIRECT BURIED PVC CONDUT, SCHED 40. MINIMUM DEPTH SHALL BE 18" BELOW BOTTOM OF FLOOR SLAB
INTERIOR FEEDERS/CIRCUITS-IN FLOOR SLABS	PVC CONDUIT, SCHED 80
EXTERIOR, WET OR DAMP LOCATION FEEDERS/CIRCUITS	RGS CONDUIT
ALL WIRING-HAZARDOUS LOCATIONS	RGS CONDUIT
INTERIOR FEEDERS-EXPOSED	2" OR LESS: EMT. 2 1/2" OR GREATER: RGS CONDUIT-PROVIDE RGS CONDUIT WHERE EXPOSED BELOW 10' AFF, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, OR WHERE REQUIRED BY NEC.
INTERIOR FEEDERS-CONCEALED IN WALL OR ABV CLG	2" OR LESS: EMT. 2 1/2" OR GREATER: RGS CONDUIT-PROVIDE RGS CONDUIT WHERE EXPOSED BELOW 10' AFF, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, OR WHERE REQUIRED BY NEC.
FIRE PUMP FEEDERS/CIRCUITS-EXPOSED	MI CABLE, OR RGS CONDUIT WHERE ALLOWED BY NFPA 20
FIRE PUMP FEEDERS/CIRCUITS-BELOW FLOOR SLAB OR UNDERGROUND	CONCRETE ENCASED PVC CONDUIT, IAW NFPA 20-MINIMUM DEPTH SHALL BE 30" BELOW BOTTOM OF FLOOR SLAB.
CONNECTIONS TO XFMR'S, MOTORS, AND VIBRATING EQPT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT, 3 FT MAXIMUM LENGTH
TELECOMMUNICATIONS GROUND SYSTEM GROUND CONDUCTORS	RGS CONDUIT BONDED TO GND CONDUCTOR AT BOTH ENDS, OR PVC SCHED 40 WHERE ALLOWED BY NEC IN NON-PLENUM SPACES.
FACILITY GROUND SYSTEM GROUND CONDUCTORS SIGNAL REFERENCE GROUND SYSTEM GROUND CONDUCTORS	RGS CONDUIT BONDED TO GND CONDUCTOR AT BOTH ENDS, OR PVC SCHED 40 WHERE ALLOWED BY NEC IN NON-PLENUM SPACES.
GROUNDING ELECTRODE CONDUCTORS	RGS CONDUIT BONDED TO GND CONDUCTOR AT BOTH ENDS, OR PVC SCHED 40 WHERE ALLOWED BY NEC IN NON-PLENUM SPACES.
SIGNAL AND TELECOMMUNICATIONS WIRING	EMT, EXCEPT WHERE RGS CONDUIT IS REQUIRED BY NEC. PROVIDE 200 LB. TEST NYLON PULL LINE IN ALL TELECOMMUNICATIONS CONDUITS.
INTERIOR CIRCUITS-EXPOSED	2" OR LESS: EMT. 2 1/2" OR GREATER: RGS CONDUIT-PROVIDE RGS CONDUIT WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, OR WHERE REQUIRED BY NEC.
INTERIOR CIRCUITS-CONCEALED IN WALL OR ABOVE CEILING	2" OR LESS: EMT. 2 1/2" OR GREATER: RGS CONDUIT-PROVIDE RGS CONDUIT WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, OR WHERE REQUIRED BY NEC.
WIRING OUTSIDE OF CABLE TRAYS TO INSTRUMENTATION, SENSORS, AND PROCESS EQUIPMENT	RGS CONDUIT
UNDERGROUND FEEDERS AND BRANCH CIRCUITS ENCASED IN CONCRETE POLE FOUNDATIONS	SCHEDULE 80 PVC

1. WIRING METHODS SHALL BE AS INDICATED ABOVE, UNLESS SPECIFIED OR INDICATED OTHERWISE. WIRING METHODS SHALL COMPLY WITH NEC REQUIREMENTS AS A MINIMUM. SEE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS. SEE LEGEND AND PANEL SCHEDULES FOR MINIMUM CONDUIT SIZES.

2. RISERS AND ELBOWS FROM UNDERGROUND OR IN-SLAB PVC CONDUITS/DUCTS SHALL BE RGS CONDUITS.

3. CONDUITS AND WIRING SHALL BE RUN ABOVE THE FLOOR UNLESS SPECIFICALLY INDICATED OTHERWISE; WIRING BELOW SLABS IS PROHIBITED EXCEPT WHERE SPECIFICALLY INDICATED. CONDUITS AND WIRING IN FINISHED SPACES SHALL BE CONCEALED WITHIN PARTITIONS AND ABOVE CEILINGS UNLESS SPECIFIED OR INDICATED OTHERWISE. CONDUITS AND WIRING IN ELECTRICAL/MECHANICAL ROOMS, UTILITY SPACES, AND MANUFACTURING AREAS SHALL BE EXPOSED AFF UNLESS SPECIFIED OR INDICATED OTHERWISE. WHERE EXISTING SOLID CONSTRUCTION IN FINISHED SPACES NECESSITATES USE OF EXPOSED WIRING FOR BRANCH CIRCUITS, OBTAIN OWNER'S APPROVAL TO PROVIDE CONDUCTORS IN WIREMOLD V2000 IVORY SURFACE METAL RACEWAY, PAINTED TO MATCH ADJACENT SURFACES. WHERE APPROVED BY THE OWNER, WIRING DROPS WITHIN EXISTING PARTITIONS MAY BE 1/2" FLEXIBLE METAL CONDUIT (NO MC CABLE ALLOWED) .

4. ADDITIONAL REQUIREMENTS

A. UNDERGROUND DUCTS/CONDUITS-HORIZONTAL CHANGES IN DIRECTION SHALL BE ACCOMPLISHED WITH LONG SWEEP BENDS, HAVING A MINUMUM RADIUS OF 25 FT. VERTICAL ELBOWS TO RISERS SHALL BE RGS CONDUITS HAVING A MINIMUM BEND RADIUS OF 36" FOR FEEDERS AND 24" FOR CIRCUITS, UNLESS NOTED OTHERWISE. SEAL PENETRATIONS OF DUCTS AND CONDUITS THROUGH FLOOR SLAB VAPOR BARRIERS.

B. ABOVE GRADE POWER WIRING CONDUITS. PROVIDE PULL BOXES IAW NEC AT LOCATIONS APPROVED BY THE OWNER, WHERE REQUIRED BY NEC OR FIELD CONDITIONS. CONDUIT BENDS SHALL COMPLY WITH NEC. INCREASE CONDUIT BEND RADIUS ABOVE NEC REQUIREMENTS WHERE REQUIRED TO PROVIDE AT LEAST 125% OF THE MINIMUM ALLOWABLE BEND RADIUS SPECIFIED BY THE CABLE MANUFACTURER FOR THE CABLES CONTAINED IN THE CONDUIT.

C. ABOVE GRADE CONTROL, INSTUMENTATION, SIGNAL AND TELECOMMUNICATIONS CONDUITS: INSIDE RADIUS OF CONDUIT BENDS SHALL BE AT LEAST 10 TIMES INTERNAL CONDUIT DIAMETER. INCREASE CONDUIT BEND RADIUS ABOVE NEC REQUIREMENTS WHERE REQUIRED TO PROVIDE AT LEAST 125% OF THE MINIMUM ALLOWABLE BEND RADIUS SPECIFIED BY THE CABLE MANUFACTURER FOR THE CABLES CONTAINED IN THE CONDUIT. PROVIDE PULL BOXES AT LOCATIONS APPROVED BY THE OWNER, TO LIMIT CONDUIT RUNS TO 100 FEET OR LESS, AND TO LIMIT THE QUANTITY OF BENDS IN A CONDUIT RUN TO TWO. MINIMUM PULL BOX SIZE SHALL BE AS DESCRIBED BELOW; INCREASE IF NECESSARY FOR FIELD CONDITIONS OR IF NOTED OTHERWISE.

- FOR CONDUITS 1" AND SMALLER: MINIMUM JUCTION BOX SIZE SHALL BE 4" x 2 1/8" SQUARE AND THERE SHALL BE NO MORE THAN ONE EXTENSION PER JUNCTION BOX.

- FOR CONDUITS 1 1/4 " AND LARGER WITH STRAIGHT PULLS: PULL BOX LENGTH SHALL BE 8 TIMES CONDUIT DIAMETER.

- FOR CONDUITS 1 1/4 " AND LARGER WITH ANGLE PULLS: PULL BOX LENGTH AND WIDTH SHALL BE AT LEAST 10 TIMES LARGEST CONDUIT DIAMETER PLUS SUM OF CONDUIT DIAMETERS ON SAME WALL OF BOX, FOR WORST CASE SIDE. LENGTH AND WIDTH SHALL ALSO MAINTAIN MINIMUM SEPARATION OF 6 TIMES CONDUIT DIAMETER BETWEEN CONDUITS CONTAINING THE SAME CONDUCTORS/CABLES. PULL BOX DEPTH SHALL BE APPROPRIATE FOR LARGEST CONDUIT ENTERING THE BOX. FOR BOXES WITH CONDUITS EXITING OPPOSITE A REMOVABLE COVER, MINIMUM PULL BOX DEPTH SHALL BE 6 TIMES DIAMETER OF LARGEST CABLE/CONDUCTOR PLUS DIAMETER OF LARGEST CONDUIT.

5. CONDUCTORS: SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. UNLESS INDICATED OR SPECIFIED OTHERWISE, CONDUCTORS FOR FEEDERS, AND BRANCH CIRCUITS SHALL BE:

A. COPPER: SOLID FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER.

B. THHN/THWN AND XHHW INSULATION, RATED AT LEAST 90°C FOR DRY LOCATIONS AND 75°C FOR WET LOCATIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE. INSULATION SHALL BE THHN/THWN FOR CONDUCTOR SIZES #6 AND SMALLER AND XHHW FOR CONDUCTOR SIZES LARGER THAN #6. INSULATION VOLTAGE RATING SHALL BE 600V. SEE NOTES BELOW

C. FOR ISOLATED POWER AND GFCI CIRCUIT WIRING ADDITIONAL REQUIREMENTS. POWER FEEDER CABLES SHALL NOT BE SPLICED.

D. LIGHTING AND CONVENIENCE OUTLETS SHALL BE IN SEPERATE RACEWAYS AND SHALL NOT BE ON THE SAME CIRCUIT.

E. #10AWG CONDUCTORS SHALL BE USED ON THE ENTIRE BRANCH CIRCUIT, FOR BRANCH CIRCUITS EXCEEDING 75 FEET IN LENGTH AT 120 VOLTS 200 FEET IN LENGTH AT 277 VOLTS.

6. ADDITIONAL REQUIREMENTS FOR ISOLATED POWER WIRING AND GFCI CIRCUIT WIRING:

A. WIRING SHALL BE IN 3/4" CONDUIT MINIMUM; SHALL BE EMT, IMC, OR RGS CONDUIT.

B. MINIMIZE CIRCUIT LENGTH TO THE GREATEST EXTENT PRACTICAL, WHILE MAINTAINING COMPLIANCE WITH SPECIFICATIONS AND DRAWINGS.

C. PROVIDE XHHW-2 INSULATION FOR ISOLATED POWER WIRING AND GFCI WIRING, WHERE SPECIFIED ON THE PANEL SCHEDULES. CABLE LUBRICANTS NOT PERMITTED ON ISOLATED POWER AND GFCI CIRCUIT WIRING.

D. COMPLY WITH NEC AND NFPA 99.

7. ALL LOW VOLTAGE AND LINE VOLTAGE CABLES SHALL BE IN CONDUIT OR CABLE TRAY. NO MORE THAN 5" OF EXPOSED WIRE WILL BE ALLOWED FOR LOW VOLTAGE SYSTEMS.

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
ELECTRICAL
SYMBOLS AND
SPECIFICATIONS

SHEET NO. PROJ. NO.
020420.00

E101

GENERAL LIGHTING NOTES:

1. MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. TEN DAYS PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.

2. ALL FIXTURES TO BE U.L. LISTED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE INSTALLING FIXTURE.

3. CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED FOR A COMPLETE SYSTEM.

4. EMERGENCY GENERATOR LIGHTING TRANSFER DEVICE UL-924, (EBR) AND UL-924 DIMMING (EBR-D) WHEN INDICATED IN FIXTURES, SHALL CONTAIN INTEGRAL SENSING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED WITH AREA FIXTURES FOR NORMAL OPERATION WHERE INDICATED, AND ENERGIZE LAMPS EQUALLY UPON LOSS OF POWER CIRCUIT, REGARDLESS OF SWITCH POSITION.

5. CONTRACTOR TO COORDINATE AND DETERMINE EXACT MOUNTING HEIGHTS OF ALL INTERIOR AND EXTERIOR WALL MOUNTED LIGHT FIXTURES IN FIELD PRIOR TO ROUGH-IN. FIXTURES TO BE UNIFORM AND CONSISTANT IN ALL APPLICATIONS.

6. IN ADDITION TO THE EXIT SIGNS SHOWN ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (10) ADDITIONAL EXIT SIGNS AT THE DISCRETION OF THE ARCHITECT/ENGINEER, THE OWNER, AND/OR THE LOCAL BUILDING OFFICIAL. FOR BIDDING PURPOSES, ASSUME A 100' RUN OF 2#12, #12G-3/4"C ALONG WITH LABOR FOR INSTALLATION (PER SIGN). FIXTURES NOT USED SHALL BE TURNED OVER TO THE OWNER.

FIXTURE TYPE	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	LAMPS/LUMEN/ COLOR TEMP	FIXTURE WATTAGE	VOLTAGE
A1	EXTERIOR RATED 1' LOW VOLTAGE, RGB, DIFFUSED LENS FIXTURE.	LUMEN PULSE: LOGN-4W-48V-12-RGBW40K-10x90-CL-(MOUNTING)-(FINISH)-UCTL-UL PROVIDE ALL MATERIAL FOR A COMPLETE SYSTEM.	LED/200L/RGB	5	MULTI
A2	EXTERIOR RATED 2' LOW VOLTAGE, RGB, DIFFUSED LENS FIXTURE.	LUMEN PULSE: LOGN-4W-48V-24-RGBW40K-10x60-CL-(MOUNTING)-(FINISH)-UCTL-UL PROVIDE ALL MATERIAL FOR A COMPLETE SYSTEM.	LED/401L/RGB	9	MULTI
A4	EXTERIOR RATED 4' LOW VOLTAGE, RGB, DIFFUSED LENS FIXTURE.	LUMEN PULSE: LOGN-4W-48V-48-RGBW40K-10x60-CL-(MOUNTING)-(FINISH)-UCTL-UL PROVIDE ALL MATERIAL FOR A COMPLETE SYSTEM.	LED/802L/RGB	16	MULTI
B	EXTERIOR RATED IN-GROUND LOW VOLTAGE, RGB, DIFFUSED LENS FIXTURE.	LUMEN PULSE: LBIL-120_277-RGBW40K-NS-CL-INTL-DMX_RDM PROVIDE ALL MATERIAL FOR A COMPLETE SYSTEM.	LED/1077L/RGB	35	MULTI
EXA	UNIVERSAL MOUNTED EXIT SIGN WITH RED LED ON WHITE ALUMINUM HOUSING, BATTERY, DIFFUSER LENS, SPEC GRADE.	LIGHT ALARMS #1/2XDN-W-RW	LED	10	MULTI
IA	4'; 2 LAMP STANDARD CHANNEL STRIP LIGHT, 22 GA. STEEL, ALL PARTS PAF, WIRE GUARD, ELECTRONIC BALLAST.	COLUMBIA: MPS4-35ML-CW-EDU / MSPWG4	LED/4468L/ 4000K	31	MULTI
IAG	SAME AS "IA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND EBR DEVICE (NOTE 4).	COLUMBIA: MPS4-35ML-CW-EDU-ELL14 / MSPWG4	LED/4468L/ 4000K	31	MULTI
LA	RECESSED LINEAR LED 2', ARMSTRONG METALWORKS MOUNTING	JLC TECH: GEMS-MW-1000-2-24-DW-A-W-UNV	LED/2169L/ 3500K	31	MULTI
LB	RECESSED LINEAR LED 8', ARMSTRONG METALWORKS MOUNTING	JLC TECH: GEMS-MW-1000-2-24-DW-A-W-UNV	LED/8676L/ 3500K	74	MULTI
LC	RECESSED LINEAR LED 2', VERTICAL SYMMETRIC LENSING.	FLUXWERX: NT1LD2BD35F2M04	LED/2279L/ 3500K	20	MULTI
LL4	RECESSED LINEAR LED 4', LENSED.	JLC TECH: GEMS-MW-1000-4-24-DW-A-W-UNV	LED/4388L/ 3500K	43	MULTI
LL4G	SAME AS "LL4" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	JLC TECH: GEMS-MW-1000-4-24-DW-A-W-UNV-EM	LED/2279L/ 3500K	20	MULTI
LPA	LED 12' LINEAR PENDANT HUNG.	AXIS: TB2DLED-1000-80-35-SO-12	LED/12003L/ 3500K	120	MULTI
LPAG	SAME AS "LPA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR DEVICE (NOTE 4).	AXIS: TB2DLED-1000-80-35-SO-12-EM	LED/12003L/ 3500K	120	MULTI
LPB	LED 9' LINEAR PENDANT HUNG.	AXIS: TB2DLED-1000-80-35-SO-9	LED/9002L/ 3500K	90	MULTI
LPC	LED 5' LINEAR PENDANT HUNG.	AXIS: TB2DLED-1000-80-35-SO-5	LED/5001L/ 3500K	50	MULTI
PA24	LED CYLINDER PENDANT 24" DIAMETER, 60 DEGREE OPTIC.	OCL: TB7-P1FF-24-MW-WTP	LED/3570L/ 3500K	26	MULTI
PA24G	SAME AS "PA24" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	OCL: TB7-P1FF-24-MW-WTP	LED/3570L/ 3500K	26	MULTI
PA36	LED CYLINDER PENDANT 36" DIAMETER, 25 DEGREE OPTIC	OCL: TB7-P1FF-36-MW-WTP	LED/5378L/ 3500K	39	MULTI
PA48	LED CYLINDER PENDANT 48" DIAMETER, 25 DEGREE OPTIC	OCL: TB7-P1FF-48-MW-WTP	LED/7184L/ 3500K	52	MULTI
PL	ELEVATOR PIT LIGHT WITH GLASS DOME AND WIRE GUARD	HUBBELL: VWGL-2	LED	19	120V
RA	RECESSED, 6" DIA. OPEN CAN LIGHT, 38 DEGREE OPTIC, BAR HANGERS.	PRESCOLITE: LFR-6RD-M-35L35K8MD-DM1 / LFR-6RD-T-SS	LED/3833L/ 3500K	30	MULTI
RAG	SAME AS "RA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	PRESCOLITE: LFR-6RD-M-35L35K8MD-DM1EM / LFR-6RD-T-SSEM	LED/3833L/ 3500K	30	MULTI
RB	RECESSED, 6" DIA. OPEN CAN LIGHT, 46 DEGREE OPTIC, BAR HANGERS.	PRESCOLITE: LFR-6RD-M-35L35K8W-DM1 / LFR-6RD-T-SS	LED/3088L/ 3500K	30	MULTI
RBG	SAME AS "RB" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	PRESCOLITE: LFR-6RD-M-35L35K8W-DM1EM / LFR-6RD-T-SSEM	LED/3088L/ 3500K	30	MULTI
RC	RECESSED, 6" DIA. OPEN CAN LIGHT, 59 DEGREE OPTIC, BAR HANGERS.	PRESCOLITE: LFR-6RD-M-35L35K8XW-DM1 / LFR-6RD-T-SS	LED/3787L/ 3500K	30	MULTI
SL	4' SURFACE MOUNTED EXTERIOR RATED LINEAR FIXTURE WITH DIFFUSED LENS.	XXX	LED/XXXXL/ ??00K	30	MULTI
TLA	RECESSED 2X4 LINEAR LED TROFFER, DIMMING, WITH CENTER LENS.	COLUMBIA #LCAT24-35XLG-EDU	LED/8411L/ 3500K	74	MULTI
TLAG	SAME AS "TLA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	COLUMBIA #LCAT24-35XLG-EDU-DTS	LED/8411L/ 3500K	74	MULTI
TLB	RECESSED 2X4 LINEAR LED TROFFER, DIMMING, WITH CENTER LENS.	COLUMBIA #LCAT24-35VLG-EDU	LED/7208L/ 3500K	59	MULTI
TLBG	SAME AS "TLB" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	COLUMBIA #LCAT24-35VLG-EDU-DTS	LED/7208L/ 3500K	59	MULTI
TLC	RECESSED 2X4 LINEAR LED TROFFER, DIMMING, WITH CENTER LENS.	COLUMBIA #LCAT24-35HLG-EDU	LED/5606L/ 3500K	44	MULTI
TLCG	SAME AS "TLC" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR-D DEVICE (NOTE 4).	COLUMBIA #LCAT24-35HLG-EDU-DTS	LED/5606L/ 3500K	44	MULTI
TG	LINEAR LED 15/16" T-BAR W/ INTEGRAL DRIVER.	JLC TECH: TBSL-MW-4-24-D-U-W-CUSTOM OUTPUT	LED/2279L/ 3500K	31	MULTI
TGG	SAME AS "LPA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR DEVICE (NOTE 4).	JLC TECH: TBSL-MW-4-24-D-U-W-EM	LED/2279L/ 3500K	31	MULTI
TG2	LINEAR LED 15/16" T-BAR W/ INTEGRAL DRIVER.	JLC TECH: TBECOH-MW-4-24-DWS-X-UNV	LED/2701L/ 3500K	19	MULTI
TG2G	SAME AS "TG2" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR DEVICE (NOTE 4).	JLC TECH: TBECOH-MW-4-24-DWS-X-UNV-EM	LED/2701L/ 3500K	19	MULTI
WL	42' EXTERIOR RATED RECESSED LED, DIFFUSED LENS.	METALUMEN: RM4D0D-1L40K-42'-MA-SAL-L3-1-R-4	LED/25000L/ 4000K	250	MULTI
WPA	WALL MOUNTED DECORATIVE ARCHITECTURAL LIGHT FIXTURE.	SPITZER: DFLV-3-U-CC-RAL-MMB	LED/3000L/ 4000K	30	MULTI
WPAG	SAME AS "WPA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR DEVICE (NOTE 4).	SPITZER: DFLV-3-U-CC-RAL- MMB-EM1	LED/3000L/ 4000K	30	MULTI
WPB	WALL MOUNTED DECORATIVE ARCHITECTURAL LIGHT FIXTURE.	SPITZER: DFLV-2-U-CC-RAL	LED/2000L/ 4000K	20	MULTI
WPBG	SAME AS "WPA" ABOVE EXCEPT WITH (1) FACTORY INSTALLED BATTERY AND REMOTE EBR DEVICE (NOTE 4).	SPITZER: DFLV-2-U-CC-RAL -EM1	LED/2000L/ 4000K	20	MULTI

1 LIGHTING FIXTURE SCHEDULE
12" = 1'-0"

A, AMP	AMPERE	KV	KILO-VOLT
AC	ALTERNATING CURRENT	KVA	KILO-VOLT AMPERES
ACT	ABOVE COUNTER HEIGHT	KW	KILOWATT
AF	AMP FRAME	LB(S)	POUND(S)
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	LTS	LIGHTS
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER
ASYM	ASYMMETRICAL	MFR	MANUFACTURER
AT	AMP TRIP	MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AVG.	AVERAGE	N, NEUT	NEUTRAL
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
BKR	BREAKER	N.C.	NORMALLY CLOSED
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
C, CND	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CAT	CATALOG	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION CAMERA	N.O.	NORMALLY OPEN
CKT	CIRCUIT	NTE	NOT TO EXCEED
CONT	CONTINUOUS	NTS	NOT TO SCALE
CRI	COLOR RENDERING INDEX	P	POLE
CT	CURRENT TRANSFORMER	PDU	POWER DISTRIBUTION UNIT
CU	COEFFICIENT OF UTILIZATION	PH, □	PHASE
DISC	DISCONNECT	PMCS	POWER MONITORING AND CONTROL SYSTEM
DIST	DISTRIBUTION	PNL	PANEL
DIV	DIVISION	PVC	POLYVINYL CHLORIDE
DWG(S)	DRAWING(S)	RCPT(S)	RECEPTACLE(S)
DPDT	DOUBLE POLE-DOUBLE THROW	RCR	ROOM CAVITY RATIO
EC	EMPTY CONDUIT	RGS	RIGID GALVANIZED STEEL
ELEC	ELECTRIC	RM	ROOM
EMER	EMERGENCY	SS	STAINLESS STEEL
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EPP	EXISTING POWER POLE	SWBD	SWITCHBOARD
EQPT	EQUIPMENT	SYM	SYMMETRICAL
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
EWH	ELECTRIC WATER HEATER	UG, UGND	UNDERGROUND
EXST	EXISTING	UH	UNIT HEATER
FACP	FIRE ALARM CONTROL PANEL	UL	UNDERWRITERS' LABORATORIES
FBO	FURNISHED BY OTHERS, FURNISHED BY OWNER	UNO	UNLESS NOTED OTHERWISE
FIXT	FIXTURE	V	VOLT(S)
FWE	FURNISHED WITH EQUIPMENT, INDICATES ITEM IS FURNISHED WITH EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS, BUT INSTALLED UNDER DIVISION 16.	VFD	VARIABLE FREQUENCY DRIVE
		W	WATT(S), WIRE
G, GND	GROUND	W/	WITH
GA	GAUGE	W/O	WITHOUT
GEN	GENERATOR	WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER
GFI	GROUND FAULT INTERRUPTER	1/C	SINGLE CONDUCTOR CABLE
HID	HIGH INTENSITY DISCHARGE	3/C	THREE CONDUCTOR CABLE
HP	HORSEPOWER	Z	IMPEDANCE
HPF	HIGH POWER FACTOR	%Z	PERCENT IMPEDANCE
HPS	HIGH PRESSURE SODIUM	SPST	SINGLE POLE-SINGLE THROW
HZ	HERTZ	DPST	DOUBLE POLE-SINGLE THROW
IG	ISOLATED GROUND	3PST	THREE POLE-SINGLE THROW
IMC	INTERMEDIATE METAL CONDUIT	SPDT	SINGLE POLE-DOUBLE THROW
INC, INCAND	INCANDESCENT	DPDT	DOUBLE POLE-DOUBLE THROW
KCMIL	ONE THOUSAND CIRCULAR MILS	3PDT	THREE POLE-DOUBLE THROW

2 GENERAL ABBREVIATIONS
12" = 1'-0"

DEVICE/EQUIPMENT	MTG HT, AFF	MEASURED TO	DEVICE/EQUIPMENT	MTG HT, AFF	MEASURED TO
RECEPTACLES	AS INDICATED	TOP	GROUND FAULT CIRCUIT INTERRUPTERS	4'-0"	TOP
TOGGLE SWITCHES	4'-0"	TOP	GROUND BUSES	2'-0"	CENTER
WALL DIMMERS	4'-0"	TOP	CABLE TRAYS	AS INDICATED	BOTTOM
MANUAL MOTOR STARTERS	4'-0"	TOP	TELECOMMUNICATIONS OUTLETS.	1'-6"	CENTER
WALL/SWITCH OCCUPANCY SENSORS	4'-0"	TOP	TELECOMMUNICATIONS OUTLETS, WITH "W" DESIGNATION ON PLANS.	4'-0"	TOP
LIGHTING CONTROL PANELS	5'-0"	TOP	TELECOMMUNICATIONS OUTLETS, WITH "A" DESIGNATION ON PLANS.	AS INDICATED	-
LIGHTING CONTROL STATIONS	4'-0"	TOP	SPEAKERS	7'-6"	CENTER
JUNCTION BOXES	AS INDICATED	CENTER	PAGING SYSTEM CONTROL PANELS	6'-0"	TOP
MONITORING OR CONTROL PANELS, UNO	5'-0"	TOP			
SURFACE METAL RACEWAY	AS INDICATED	TOP	VOLUME CONTROLS	4'-0"	TOP
PANELBOARDS	6'-0"	TOP	INTEGRATED COMMUNICATION SYSTEM PANELS	6'-0"	TOP
DISCONNECT SWITCHES	5'-0"	TOP			
AUTOMATIC TRANSFER SWITCHES	6'-0"	TOP	ELECTRICALLY OPERATED DOOR STRIKES	AS INDICATED	CENTER
MANUAL TRANSFER SWITCHES	6'-0"	TOP			
CONTROL STATIONS	6'-0"	TOP	TOUCH PADS	AS INDICATED	CENTER
TRANSIENT VOLTAGE SURGE SUPPRESSORS	NTE 6'-0"	TOP	CLOSED CIRCUIT TELEVISION CAMERAS	AS INDICATED	CENTER
MAGNETIC MOTOR STARTERS	6'-0"	TOP	VOLUMETRIC SENSORS	AS INDICATED	CENTER
LIGHTING CONTACTORS	6'-0"	TOP	GEN REMOTE ALARM ANNUNCIATORS	5'-0"	TOP
INDIVIDUAL CIRCUIT BREAKER	6'-0"	TOP	GEN/BAS TERMINAL BLOCKS	5'-0"	TOP
EMERGENCY SHUTDOWN SWITCHES	4'-0"	CENTER	GEN EMERGENCY STOP SWITCHES	4'-0"	TOP
TIME SWITCHES	6'-0"	TOP	GEN TANK FUEL LEVEL INDICATORS	5'-0"	TOP
POWER CONTROL PANELS	5'-0"	TOP	LIGHTING FIXTURES	AS INDICATED	CENTER, UNO
FIRE ALARM AUDIO/VISUAL ALARMS	6'-8"	CENTER	SMOKE DETECTORS (WALL MTD)	6"CLEARANCE TO CEILING	TOP
FIRE ALARM VISUAL ALARMS	6'-8"	CENTER	BEAM-TYPE SMOKE DETECTORS	AS INDICATED	CENTER
			FIRE ALARM CONTROL PANELS	6'-0"	TOP
FIRE ALARM HORNS	6'-8"	CENTER	FIRE ALARM ANNUNCIATOR PANELS	6'-0"	TOP
FIRE ALARM MANUAL STATIONS	4'-0"	TOP	FIRE ALARM MASTER BOXES	AS INDICATED	-
FIRE FIGHTER PHONE JACKS	4'-6"	CENTER	FIRE PUMP ALARM PANELS	6'-0"	TOP
FIRE FIGHTER MASTER PHONES	4'-6"	CENTER	FIRE ALARM GRAPHIC ANNUNCIATORS	6'-0"	TOP

NOTES:
1. COORDINATE MOUNTING HEIGHTS WITH FIELD CONDITIONS, OTHER TRADES, AND RELATED EQUIPMENT.
2. EXCEPTIONS TO MOUNTING HEIGHTS INDICATED ABOVE ARE INDICATED ON PLANS.

3 GENERAL MOUNTING HEIGHTS
12" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CAROLINA ENGINEERING SOLUTIONS, LLC
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GREENVILLE, SOUTH CAROLINA 29601
PH: (864) 370-9355 FAX: (864) 370-9505
WWW.CAROLINAENGR.COM

SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING FIXTURE SCHEDULE & DETAILS

SHEET NO. E102
PROJ. NO. 020420.00

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

EQUIPMENT	HP/A/W	VOLTAGE/PHASE	CIRCUIT #	FEEDER	LOCAL DISCONNECT	STARTER/VFD	NOTES
WSHP-A0.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.02	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.03	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.04	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.05	12.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.06	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A0.07	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.08	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A0.09	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A0.10	10.1A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A0.11	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B0.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.02	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.03	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B0.04	12.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.05	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.06	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.07	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.08	12.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B0.09	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.02	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.03	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15
WSHP-A1.04	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A1.05	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15,25
WSHP-A1.06	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.07	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.08	12.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A1.09	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.01	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.02	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.03	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.04	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.05	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B1.06	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.01	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.02	9.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.03	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.04	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.05	12.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.06	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.07	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.08	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.09	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.10	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.11	10.1A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.12	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.13	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C1.14	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.15	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-C1.16	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.02	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.03	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A2.04	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-A2.05	15.0A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.06	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.07	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.08	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-A2.09	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.02	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.03	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.04	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.05	17.6A	480/3	SEE PANEL SCHEDULES	4#10,1#10(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-B2.06	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B2.07	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B2.08	9.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B2.09	15.0A	277/1	SEE PANEL SCHEDULES	3#10,1#10(G)-3/4"C	30/2/F	F.W.E.	1,15
WSHP-B2.10	5.2A	277/1		3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15,25
WSHP-C2.01	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.02	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.03	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.04	5.2A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/2/F	F.W.E.	1,15,25
WSHP-C2.05	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.06	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.07	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.08	5.7A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.09	11.8A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.10	5.6A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
WSHP-C2.11	5.42A	277/1	SEE PANEL SCHEDULES	3#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15
WSHP-C2.12	6.3A	480/3	SEE PANEL SCHEDULES	4#12,1#12(G)-3/4"C	30/3/F	F.W.E.	1,15,25
DSS-A0.01 (OUT)	0.9A	208/1	AEL-7/9	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15,22
DSS-A0.01 (IN)	9.0A	208/1	FED BY OUTDOOR UNIT	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15
DSS-A1.01 (OUT)	0.9A	208/1	B1EL-7/9	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15,22
DSS-A1.01 (IN)	9.0A	208/1	FED BY OUTDOOR UNIT	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15
DSS-C1.01 (OUT)	0.9A	208/1	B2EL-7/9	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15,22
DSS-C1.01 (IN)	9.0A	208/1	FED BY OUTDOOR UNIT	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15
DSS-A2.01 (OUT)	0.9A	208/1	C1EL-7/9	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15,22
DSS-A2.01 (IN)	9.0A	208/1	FED BY OUTDOOR UNIT	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15
DSS-C2.01 (OUT)	0.9A	208/1	C2EL-7/9	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15,22
DSS-C2.01 (IN)	9.0A	208/1	FED BY OUTDOOR UNIT	2#10,1#10(G)-3/4"C	30/2/NF/3R	N/A	1,15
EF-00.1	1/2HP	120/1	AL-97	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,12
EF-B0.01	1/2HP	120/1	AL-93	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,30
EF-B0.02	1/2HP	120/1	AL-95	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,30
EF-A1.01	1/2HP	120/1	S1-21	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-A1.02	1/2HP	120/1	S5-10	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-A1.03	1/2HP	120/1	S5-12	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-A1.04	1/2HP	120/1	S2-10	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-A1.05	1/4HP	120/1	S1-23	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-A1.06	1/4HP	120/1	S2-14	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-A1.07	1/4HP	120/1	S5-14	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-A1.08	1/4HP	120/1	S4-16	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16

LEVEL 1000 — LEVEL 1100 — LEVEL 1200

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

EQUIPMENT	HP/A/W	VOLTAGE/PHASE	CIRCUIT #	FEEDER	LOCAL DISCONNECT	STARTER/VFD	NOTES
EF-B1.01	1/2HP	120/1	S2-12	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-B1.02	1/2HP	120/1	S3-10	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-B1.03	1/2HP	120/1	S3-12	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-B1.04	1/2HP	120/1	S4-8	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-B1.05	1/2HP	120/1	S4-6	2#12,1#12(G)-3/4"C	TOGGLE TYPE	FWE	1,2,10
EF-B1.06	1/4HP	120/1	S2-16	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-B1.07	1/4HP	120/1	S3-14	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-B1.08	1/4HP	120/1	S3-16	2#12,1#12(G)-3/4"C	TOGGLE TYPE, NEMA 3R	FWE	1,2,16
EF-C1.01	50W	277/1	TIE TO LTG. CIRCUIT	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1,3
EF-C1.02	50W	277/1	TIE TO LTG. CIRCUIT	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1,3
EF-C1.03	50W	277/1	TIE TO LTG. CIRCUIT	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1,3
EF-C1.04	50W	277/1	TIE TO LTG. CIRCUIT	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1,3
EF-C1.05	50W	277/1	TIE TO LTG. CIRCUIT	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1,3
EF-C1.06	1/2HP	120/1	S6-6	2#12,1#12(G)-3/4"C	TOGGLE TYPE/NEMA 3R	FWE	1,2,10
EF-C1.07	1/2HP	120/1	S6-8	2#12,1#12(G)-3/4"C	TOGGLE TYPE/NEMA 3R	FWE	1,2,10
RH-1	1/2HP	120/1	AL-32	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	29
RH-2	1/2HP	120/1	AL-40	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	29
RERV-1	104.3A	480/3	MSB-7	4#1,1#6(G)-2"C	200/3/F/3R	F.W.E.	1,6,15,20
RERV-2	77.2A	480/3	MSB-8	4#2,1#6(G)-2"C	200/3/F/3R	F.W.E.	1,6,15,20
RERV-3	63.4A	480/3	MSB-9	4#3,1#8(G)-2"C	100/3/F/3R	F.W.E.	1,6,15,20
WH-1	5A	120/1	C2L-55	2#12,1#12(G)-3/4"C	TOGGLE TYPE	N/A	1
RP-1	1/3HP	120/1	C2L-57	2#12,1#12(G)-3/4"C	TOGGLE TYPE	F.W.E.	1,2,8

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE (ALTERNATE #1)

EQUIPMENT	HP/A/W	VOLTAGE/PHASE	CIRCUIT #	FEEDER	LOCAL DISCONNECT	STARTER/VFD	NOTES
CT-2 TOWER	25.0HP	480/3	BMH-49/51/53	3#4,#8G-2"C	100/3/F/3R	FWE	1,13
CT-2 BASIN HEATER	14.0KW	480/3	BMH-44/46/48	3#10,#10G-3/4"C	30/3/F/3R	FWE	1,2
CT-2 HEAT TRACE	16A	120/1	BL-17	2#12,#12G-3/4"C	30/3/F/3R	N/A	
CT-2 WATER LEVEL	10A	120/1	BL-13	2#12,#12G-3/4"C	30/3/F/3R	N/A	
P-4	40.0	480/3	BMH-8/10/12	3#3,#8G-2"C	100/3/F	FWE	1,13

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE NOTES:

1. DISCONNECTING MEANS SHALL BE FURNISHED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE MECHANICAL EQUIPMENT FOR EXACT MOUNTING LOCATION. DISCONNECTING MEANS SHALL BE INSTALLED ACCESSIBLY ADJACENT TO UNIT AND PER THE NEC FOR WORKING CLEARANCES.
2. STARTER SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MOUNT AND CONNECT. COORDINATE WITH MECHANICAL EQUIPMENT.
3. INTERLOCK EXHAUST FAN WITH ROOM LIGHT SWITCH. PROVIDE 277V/120V STEP-DOWN TRANSFORMER.
4. 120V/277V TRANSFORMER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
5. NOT USED.
6. DUCT SMOKE DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL. ELECTRICAL CONTRACTOR TO CONNECT TO FIRE ALARM PANEL. SEE DUCT DETECTOR SCHEDULE ON SHEET E112 FOR ADDITIONAL INFORMATION.
7. NOT USED.
8. INTERLOCK WITH BUILDING MANAGEMENT SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
9. NOT USED.
10. ROUTE CIRCUIT THOUGH WALL MOUNTED TIME SWITCH. TIMED SWITCH FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.
11. PROVIDE WALL MOUNTED TOGGLE TYPE SWITCH FOR CONTROL, COORDINATE WITH MECHANICAL CONTRACTOR.
12. ROUTE CIRCUIT THOUGH WALL MOUNTED THERMOSTAT. THERMOSTAT FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.
13. ROUTE CIRCUIT THOUGH VARIABLE SPEED DRIVE, SIZE AS REQUIRED.
14. NOT USED.
15. DISCONNECT AND STARTER FURNISHED WITH EQUIPMENT BY MANUFACTURE. COORDINATE WITH MECHANICAL CONTRACTOR.
16. PROVIDE UNITED MOUNTED TOGGLE TYPE SWITCH FOR CONTROL, COORDINATE WITH MECHANICAL CONTRACTOR.
17. NOT USED.
18. NOT USED.
19. NOT USED.
20. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V RECEPTACLE IN WEATHERPROOF ENCLOSURE. INSTALL WITH-IN 5'-0" OF UNIT AND POWER TO NEAREST 120V/1P CIRCUIT.
21. NOT USED.
22. INDOOR UNIT FED FROM OUTDOOR UNIT.
23. NOT USED.
24. NOT USED.
25. ELECTRICAL CONTRACTOR SHALL INCLUDED A NEUTRAL CONDUCTOR AS WELL.
26. NOT USED.
27. NOT USED.
28. NOT USED.
29. WIRE OVEN/RANGE THROUGH AUTOMATIC DISCONNECT FURNISHED WITH THE HOOD. COORDINATE WITH ACTUAL EQUIPMENT PRIOR TO PERFORMING ANY WORK.
30. WIRE THROUGH RANGE HOOD CONTROLS. COORDINATE WITH ACTUAL EQUIPMENT PRIOR TO PERFORMING ANY WORK.

mcmillan pazdan smith
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
MECHANICAL ELECTRICAL SCHEDULE

SHEET NO. E103
PROJ. NO. 020420.00

SERVICE FEEDER SCHEDULE (90/75°C-3PH,N)

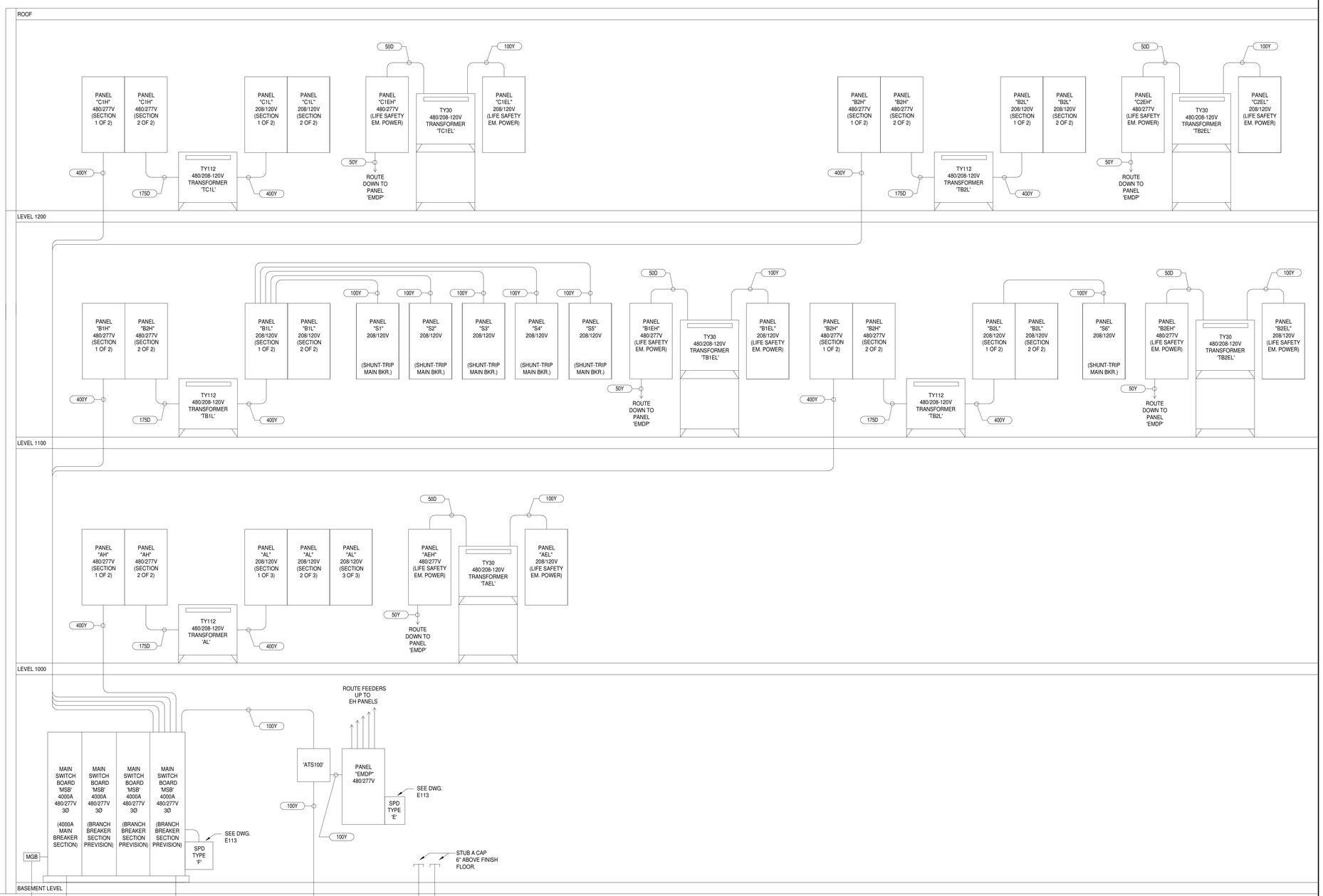
SYMBOL	NO. OF SETS	PHASE	NEUTRAL	GROUND	ISOLATED GROUND	CONDUIT	REMARKS
400F	10	3-600KCMIL	600KCMIL	--	--	4"	

FEEDER SCHEDULE (90/75°C-3PH,N,G)

SYMBOL	NO. OF SETS	PHASE	NEUTRAL	GROUND	ISOLATED GROUND	CONDUIT	REMARKS
20Y	1	3#12	#12	#12	--	1/2"	
30Y	1	3#10	#10	#10	--	3/4"	
40Y	1	3#8	#8	#10	--	1"	
50Y	1	3#6	#6	#10	--	1"	
60Y	1	3#6	#6	#10	--	1"	
70Y	1	3#4	#4	#8	--	1 1/4"	
80Y	1	3#2	#2	#8	--	1 1/4"	
90Y	1	3#2	#2	#8	--	1 1/4"	
100Y	1	3#2	#2	#8	--	1 1/4"	
125Y	1	3#1/0	#1/0	#6	--	2"	
150Y	1	3#2/0	#2/0	#6	--	2"	
175Y	1	3#3/0	#3/0	#6	--	2 1/2"	
200Y	1	3#4/0	#4/0	#6	--	2 1/2"	
225Y	1	3-250KCMIL	250KCMIL	#4	--	3"	
250Y	1	3-300KCMIL	300KCMIL	#4	--	3"	
300Y	1	3-400KCMIL	400KCMIL	#4	--	3"	
400Y	2	3#4/0	#4/0	#2	--	2 1/2"	

FEEDER SCHEDULE (90/75°C-3PH,G)

SYMBOL	NO. OF SETS	PHASE	NEUTRAL	GROUND	ISOLATED GROUND	CONDUIT	REMARKS
20D	1	3#12	--	#12	--	1/2"	
30D	1	3#10	--	#10	--	1/2"	
40D	1	3#8	--	#10	--	3/4"	
50D	1	3#8	--	#10	--	3/4"	
60D	1	3#6	--	#10	--	3/4"	
70D	1	3#4	--	#8	--	1"	
80D	1	3#4	--	#8	--	1"	
90D	1	3#2	--	#8	--	1 1/4"	
100D	1	3#2	--	#8	--	1 1/4"	
125D	1	3#1	--	#6	--	1 1/2"	
150D	1	3#1/0	--	#6	--	1 1/2"	
175D	1	3#2/0	--	#6	--	2"	
200D	1	3#3/0	--	#6	--	2"	
225D	1	3#4/0	--	#4	--	2"	
250D	1	3-250KCMIL	--	#4	--	2 1/2"	
300D	1	3-350KCMIL	--	#4	--	3"	
400D	1	3-500KCMIL	--	#2	--	3"	



POWER RISER NOTES:

1. SWITCHBOARD, PANEL, AND TRANSFORMER DIMENSIONS ARE BASED ON SQUARE D EQUIPMENT. IF ALTERNATE GEAR MANUFACTURER IS USED, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE GEAR WILL FIT INTO THE ALLOTTED AREAS AND ROOMS SHOWN ON THE DRAWINGS.
2. SERIES RATING OF EQUIPMENT WILL NOT BE PERMITTED.
3. CONTRACTOR SHALL POUR A 6" THICK HOUSEKEEPING PAD FOR SWITCHBOARD 'MSB' AND ALL TRANSFORMERS GROUND MOUNTED IN ELECTRICAL ROOMS.
4. ROUTE A 2" CONDUIT BELOW GRADE TO PHASE III ELECTRICAL ROOM FOR FUTURE USE. EXACT TERMINATION POINT TO BE DETERMINED AT A LATER TIME. FOR BIDDING PURPOSES ASSUME 300'-0" OF CONDUIT. STUB CONDUIT UP 6" ABOVE FINISHED FLOOR, CAP AND LABEL FUTURE EMERGENCY POWER.
5. ROUTE A (4)-3" CONDUITS BELOW GRADE TO PHASE III ELECTRICAL ROOM FOR FUTURE USE. EXACT TERMINATION POINT TO BE DETERMINED AT A LATER TIME. FOR BIDDING PURPOSES ASSUME 300'-0" OF CONDUIT. STUB CONDUITS UP 6" ABOVE FINISHED FLOOR, CAP AND LABEL FUTURE NORMAL POWER.

GENERATOR NOTES:

A. ROUTE 14#12,#12G-1¼"C FROM GENERATOR TO BOTH AUTOMATIC TRANSFER SWITCHES AND GENERATOR ANNUNCIATOR PANEL FOR ALL NECESSARY CONTROL WIRING.
B. ROUTE 3#10,#10(G)-1¼"C TO CIRCUIT AEL-13 & AEL-15/17 FOR BATTERY CHARGER AND BLOCK HEATER.
C. ROUTE #3/0 BARE COPPER GROUND IN 1" CONDUIT FROM GENERATOR TO MAIN GROUNDING BUS IN MAIN ELECTRICAL ROOM IN BASEMENT.
D. ROUTE A 1½" C EMPTY CONDUIT WITH PULL WIRE TO MAIN ELECTRICAL ROOM B14 FOR FUTURE USE.
E. FURNISH GENERATOR WITH (2) OUTPUT BREAKERS, SIZE AS NOTED.
F. PROVIDE A WEATHER PROOF ENCLOSURE WITH LEVEL II SOUND ATTENUATION.

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRICAL RISER DIAGRAM

SHEET NO. E104

PROJ. NO. 020420.00

Branch Panel: AL

Location: ELEC 1049
Supply From: TAL
Mounting: SURFACE
Enclosure: INDOOR

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000A
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
AL-1	R.-CLASSROOM 1046	20 A	1	1260...	720 VA					1	20 A	R.-OFFICE 1050	AL-2
AL-3	R.-CLASSROOM 1046	20 A	1			720 VA	720 VA			1	20 A	R.-OFFICE 1056	AL-4
AL-5	SPARE	20 A	1					0 VA	1620...	1	20 A	R.-COMMONS 1040A	AL-6
AL-7	R.-CLASSROOM 1048	20 A	1	1260...	1620...					1	20 A	R.-COMMONS 1040B	AL-8
AL-9	R.-CLASSROOM 1048	20 A	1			720 VA	1080...			1	20 A	R.-CLASSROOM 1058	AL-10
AL-11	SPARE	20 A	1					0 VA	540 VA	1	20 A	R.-CLASSROOM 1058	AL-12
AL-13	R.-CLASSROOM 1042	20 A	1	1080...	0 VA					1	20 A	SPARE	AL-14
AL-15	R.-CLASSROOM 1042	20 A	1			720 VA	1260...			1	20 A	R.-CLASSROOM 1060	AL-16
AL-17	SPARE	20 A	1					0 VA	540 VA	1	20 A	R.-CLASSROOM 1060	AL-18
AL-19	R.-CLASSROOM 1044	20 A	1	1080...	0 VA					1	20 A	SPARE	AL-20
AL-21	R.-CLASSROOM 1044	20 A	1			720 VA	1260...			1	20 A	R.-LIFE 1062	AL-22
AL-23	SPARE	20 A	1					0 VA	360 VA	1	20 A	R.-LIFE 1062	AL-24
AL-25	R.-LAB 1052	20 A	1	720 VA	1000...					1	20 A	REFRIGERATOR (NOTE:1)	AL-26
AL-27	R.-LAB 1052	20 A	1			720 VA	540 VA			1	20 A	R.-LIFE 1062	AL-28
AL-29	R.-LAB 1052	20 A	1					1800...	1000...	1	20 A	MIRCOWAVE (NOTE:1)	AL-30
AL-31	R.-LAB 1052	20 A	1	720 VA	500 VA					1	20 A	STOVE HOOD	AL-32
AL-33	R.-CLASSROOM 1054	20 A	1			1260...	2500...			2	50 A	RANGE (NOTE:2)	AL-34
AL-35	R.-CLASSROOM 1054	20 A	1					720 VA	2500...	--	--	--	AL-36
AL-37	SPARE	20 A	1	0 VA	1000...					1	20 A	MIRCOWAVE (NOTE:1)	AL-38
AL-39	SPARE	20 A	1			0 VA	500 VA			1	20 A	STOVE HOOD	AL-40
AL-41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-42
AL-43	RANGE (NOTE:2)	50 A	2	2500...	1725...					1	25 A	HAND DRYER	AL-44
AL-45	--	--	--			2500...	1725...			1	25 A	HAND DRYER	AL-46
AL-47	R.-LIFE 1062	20 A	1					720 VA	360 VA	1	20 A	R.-TOILETS 1055B &1055C	AL-48
AL-49	DISHWASHER (NOTE:1)	20 A	1	1000...	180 VA					1	20 A	R.-ELEVATOR	AL-50
AL-51	REFRIGERATOR (NOTE:1)	20 A	1			1000...	180 VA			1	20 A	R.-ELEVATOR	AL-52
AL-53	R.-IT STORAGE 1063	20 A	1					900 VA	720 VA	1	20 A	R.-SRO 1053	AL-54
AL-55	HAND DRYER	25 A	1	1725...	900 VA					1	20 A	AP OFF 1051	AL-56
AL-57	HAND DRYER	25 A	1			1725...	720 VA			1	20 A	R.-AMDIN 1045A	AL-58
AL-59	HAND DRYER	25 A	1					1725...	720 VA	1	20 A	R.-TEACH 1045B	AL-60
AL-61	HAND DRYER	25 A	1	1725...	1440...					1	20 A	R.-IT REPAIR 1047	AL-62
AL-63	HAND DRYER	25 A	1			1725...	720 VA			1	20 A	R.-IT REPAIR 1047	AL-64
AL-65	HAND DRYER	25 A	1					1725...	1080...	1	20 A	R.-IT REPAIR 1047	AL-66
AL-67	HAND DRYER	25 A	1	1725...	540 VA					1	20 A	R.-IT REPAIR 1047	AL-68
AL-69	HAND DRYER	25 A	1			1725...	1440...			1	20 A	R.-IT STORAGE 1043	AL-70
AL-71	COPY MACHINE	20 A	1					500 VA	1440...	1	20 A	R.-GENERAL PURPOSE	AL-72
AL-73	R.-WORKROOM 1055	20 A	1	540 VA	500 VA					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	AL-74
AL-75	R.-WORKROOM 1055	20 A	1			720 VA	500 VA			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	AL-76
AL-77	MIRCOWAVE (NOTE:1)	20 A	1					1000...	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	AL-78
AL-79	REFRIGERATOR (NOTE:1)	20 A	1	180 VA	1260...					1	20 A	R.-GENERAL PURPOSE	AL-80
AL-81	VENDING MACHINE (NOTE:1)	20 A	1			180 VA	500 VA			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	AL-82
AL-83	VENDING MACHINE (NOTE:1)	20 A	1					180 VA	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	AL-84
AL-85	ELECTRIC WATER COOLER (NOTE:1)	20 A	1	500 VA	0 VA					1	20 A	SPARE	AL-86
AL-87	R.-CONFERENCE 1016A	20 A	1			900 VA	0 VA			1	20 A	SPARE	AL-88
AL-89	R.-MAIN ELECTRIACL ROOM B014	20 A	1					540 VA	0 VA	1	20 A	SPARE	AL-90
AL-91	MIRCOWAVE (NOTE:1)	20 A	1	1000...	0 VA					1	20 A	SPARE	AL-92
AL-93	EF-B0.01	20 A	1			1176...	0 VA			1	20 A	SPARE	AL-94
AL-95	EF-B0.02	20 A	1					1176...	0 VA	1	20 A	SPARE	AL-96
AL-97	EF-00.1	20 A	1	1152...	0 VA					1	20 A	SPARE	AL-98
AL-99	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AL-100
AL-101	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-102
AL-103	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AL-104
AL-105	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AL-106
AL-107	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-108
AL-109	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AL-110
AL-111	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AL-112
AL-113	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-114
AL-115	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AL-116
AL-117	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AL-118
AL-119	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-120
AL-121	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AL-122
AL-123	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AL-124
AL-125	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AL-126
		Total Load:		29552 VA		30156 VA		22866 VA					
		Total Amps:		255 A		260 A		191 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3504 VA	100.00%	3504 VA		
Receptacle	39780 VA	62.57%	24890 VA	**Total Conn. Load:**	82574 VA
Power	39290 VA	100.00%	39290 VA	**Total Est. Demand:**	67684 VA
				Total Conn.:	229 A
				Total Est. Demand:	188 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. RANGE TO 'PLUG INTO' FIRE READY HOOD SYSETM FOR POWER SHUNT-TRIP. COORDINATE WITH HOOD INSTALLER.

Branch Panel: AEL

Location: ELEC 1049
Supply From: TAEL
Mounting: SURFACE
Enclosure: INDOOR

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
AEL-1	R.-DATA 1049A	20 A	1	360 VA	0 VA					1	20 A	SPARE	AEL-2
AEL-3	R.-DATA 1049A	20 A	1			360 VA	0 VA			1	20 A	SPARE	AEL-4
AEL-5	R.-DATA 1049A	20 A	1					360 VA	0 VA	1	20 A	SPARE	AEL-6
AEL-7	DSS-A0.01	30 A	2	1030...	0 VA					1	20 A	SPARE	AEL-8
AEL-9	--	--	--			1030...	0 VA			1	20 A	SPARE	AEL-10
AEL-11	ELEVATOR CAB LIGHTS	20 A	1					500 VA	0 VA	1	20 A	SPARE	AEL-12
AEL-13	GENERATOR BATTERY CHARGER	20 A	1	500 VA	0 VA					1	20 A	SPARE	AEL-14
AEL-15	GENERATOR BLOCK HEATER	30 A	2			1500...	0 VA			1	20 A	SPARE	AEL-16
AEL-17	--	--	--					1500...	0 VA	1	20 A	SPARE	AEL-18
AEL-19	IT STORAGE 1043 DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	AEL-20
AEL-21	IT REPAIR 1047 DAC	20 A	1			500 VA	0 VA			1	20 A	SPARE	AEL-22
AEL-23	IT STORAGE 1063 DAC	20 A	1					500 VA	0 VA	1	20 A	SPARE	AEL-24
AEL-25	STAIR 3 DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	AEL-26
AEL-27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEL-28
AEL-29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEL-30
AEL-31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEL-32
AEL-33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEL-34
AEL-35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEL-36
AEL-37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEL-38
AEL-39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEL-40
AEL-41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEL-42
		Total Load:		2890 VA		3390 VA		2860 VA					
		Total Amps:		24 A		28 A		24 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	9139 VA
Power	6000 VA	100.00%	6000 VA	**Total Est. Demand:**	9139 VA
				Total Conn.:	25 A
				Total Est. Demand:	25 A

Notes:

Branch Panel: AH

Location: ELEC 1049
Supply From: MSB
Mounting: SURFACE
Enclosure: INDOOR

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42,000A
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
AH-1	WSHP-A0.01	20 A	3	1579...	1579...					3	20 A	WSHP-A0.02	AH-2
AH-3	--	--	--			1579...	1579...			--	--	--	AH-4
AH-5	--	--	--					1579...	1579...	--	--	--	AH-6
AH-7	WSHP-A0.03	20 A	3	1579...	1579...					3	20 A	WSHP-A0.04	AH-8
AH-9	--	--	--			1579...	1579...			--	--	--	AH-10
AH-11	--	--	--					1579...	1579...	--	--	--	AH-12
AH-13	WSHP-A0.05	20 A	3	3518...	1440...					1	20 A	WSHP-A0.06	AH-14
AH-15	--	--	--	3518...	1440...					1	20 A	WSHP-A0.08	AH-16
AH-17	--	--	--					3518...	2798...	3	20 A	WSHP-A0.10	AH-18
AH-19	WSHP-A0.07	20 A	3	3269...	2798...					--	--	--	AH-20
AH-21	--	--	--			3269...	2798...			--	--	--	AH-22
AH-23	--	--	--					3269...	1579...	3	20 A	WSHP-B0.02	AH-24
AH-25	WSHP-A0.09	20 A	1	1440...	1579...					--	--	--	AH-26
AH-27	WSHP-A0.11	20 A	1			1440...	1579...			--	--	--	AH-28
AH-29	WSHP-B0.01	20 A	3					1579...	3518...	3	20 A	WSHP-B0.04	AH-30
AH-31	--	--	--	1579...	3518...					--	--	--	AH-32
AH-33	--	--	--			1579...	3518...			--	--	--	AH-34
AH-35	WSHP-B0.03	20 A	1					1440...	472 VA	3	20 A	WSHP-B0.06	AH-36
AH-37	WSHP-B0.05	20 A	3	1579...	472 VA					--	--	--	AH-38
AH-39	--	--	--			1579...	472 VA			--	--	--	AH-40
AH-41	--	--	--					1579...	3518...	3	20 A	WSHP-B0.08	AH-42
AH-43	WSHP-B0.07	20 A	3	1551...	3518...					--	--	--	AH-44
AH-45	--	--	--			1551...	3518...			--	--	--	AH-46
AH-47	--	--	--					1551...	0 VA	1	20 A	SPARE	AH-48
AH-49	WSHP-B0.09	20 A	3	3269...	0 VA					1	20 A	SPARE	AH-50
AH-51	--	--	--			3269...	0 VA			1	20 A	SPARE	AH-52
AH-53	--	--	--					3269...	0 VA	1	20 A	SPARE	AH-54
AH-55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AH-56
AH-57	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AH-58
AH-59	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AH-60
AH-61	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AH-62
AH-63	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AH-64
AH-65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AH-66
AH-67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AH-68
AH-69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AH-70
AH-71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AH-72
AH-73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AH-74
AH-75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AH-76
AH-77	SPARE	20 A	1					0 VA	2100...	1	20 A	L.-CORRIDOR	AH-78
AH-79	TRANSFORMER 'TAL'	175 A	3	2955...	2677...					1	20 A	L.-CLASSROOMS & OFFICE SPACE	AH-80
AH-81	--	--	--			3015...	2102...			1	20 A	L.-CLASSROOMS & OFFICE SPACE	AH-82
AH-83	--	--	--					2286...	2289...	1	20 A	L.-CLASSROOMS & OFFICE SPACE	AH-84
		Total Load:		68074 VA		68103 VA		61660 VA					
		Total Amps:		249 A		249 A		223 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	109600 VA	100.00%	109600 VA		
Receptacle	39780 VA	62.57%	24890 VA	**Total Conn. Load:**	197838 VA
Lighting	9168 VA	100.00%	9168 VA	**Total Est. Demand:**	182948 VA
Power	39290 VA	100.00%	39290 VA	**Total Conn.:**	238 A
				Total Est. Demand:	220 A

Notes:

Branch Panel: AEH

Location: ELEC 1049
Supply From: EMDP
Mounting: SURFACE
Enclosure: INDOOR

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 14,000A
Mains Type: MLO
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
AEH-1	L.-CORRIDOR	20 A	1	730 VA	0 VA					1	20 A	SPARE	AEH-2
AEH-3	L.-CLASSROOMS & OFFICE SPACE	20 A	1			590 VA	0 VA			1	20 A	SPARE	AEH-4
AEH-5	L.-CLASSROOMS & OFFICE SPACE	20 A	1					531 VA	0 VA	1	20 A	SPARE	AEH-6
AEH-7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEH-8
AEH-9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEH-10
AEH-11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEH-12
AEH-13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEH-14
AEH-15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEH-16
AEH-17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEH-18
AEH-19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEH-20
AEH-21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEH-22
AEH-23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEH-24
AEH-25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEH-26
AEH-27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEH-28
AEH-29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEH-30
AEH-31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	AEH-32
AEH-33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	AEH-34
AEH-35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	AEH-36
AEH-37	TRAMSFORMER 'TAEL'	50 A	3	2890...	0 VA					1	20 A	SPARE	AEH-38
AEH-39	--	--	--			3390...	0 VA			1	20 A	SPARE	AEH-40
AEH-41	--	--	--					2860...	0 VA	1	20 A	SPARE	AEH-42
		Total Load:		3620 VA		3980 VA		3391 VA					
		Total Amps:		13 A		14 A		12 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	10990 VA
Lighting	1851 VA	100.00%	1851 VA	**Total Est. Demand:**	10990 VA
Power	6000 VA	100.00%	6000 VA	**Total Conn.:**	13 A
				Total Est. Demand:	13 A

Notes:

KEY PLAN

AL	AH
AEL	AEH

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NO. E105

PROJ. NO. 020420.00

Branch Panel: B1L

Location: ELEC 1147A **Supply From:** TB1L **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22,000A **Mains Type:** MCB **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B1L-1	PANEL 'S1'	100 A	3	3700...	7096...					3	100 A	PANEL 'S2'	B1L-2
B1L-3	--	--	--			3476...	6332...			--	--	--	B1L-4
B1L-5	--	--	--					3856...	5736...	--	--	--	B1L-6
B1L-7	PANEL 'S3'	100 A	3	6916...	6676...					3	100 A	PANEL 'S4'	B1L-8
B1L-9	--	--	--			6512...	3960...			--	--	--	B1L-10
B1L-11	--	--	--					5376...	5236...	--	--	--	B1L-12
B1L-13	PANEL 'S5'	100 A	3	6556...	1260...					1	20 A	R.-CLASSROOM 1144	B1L-14
B1L-15	--	--	--			5432...	720 VA			1	20 A	R.-CLASSROOM 1144	B1L-16
B1L-17	--	--	--					6096...	0 VA	1	20 A	SPARE	B1L-18
B1L-19	SPARE	20 A	1	0 VA	900 VA					1	20 A	R.-OFFICE 1142	B1L-20
B1L-21	SPARE	20 A	1			0 VA	900 VA			1	20 A	R.-CONFERENCE 1140	B1L-22
B1L-23	SPARE	20 A	1					0 VA	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B1L-24
B1L-25	SPARE	20 A	1	0 VA	500 VA					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B1L-26
B1L-27	SPARE	20 A	1			0 VA	1260...			1	20 A	R.-GENERAL PURPOSE	B1L-28
B1L-29	SPARE	20 A	1					0 VA	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B1L-30
B1L-31	SPARE	20 A	1	0 VA	500 VA					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B1L-32
B1L-33	SPARE	20 A	1			0 VA	1800...			1	20 A	R.-GENERAL PURPOSE	B1L-34
B1L-35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-36
B1L-37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-38
B1L-39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-40
B1L-41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-42
B1L-43	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-44
B1L-45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-46
B1L-47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-48
B1L-49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-50
B1L-51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-52
B1L-53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-54
B1L-55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-56
B1L-57	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-58
B1L-59	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-60
B1L-61	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-62
B1L-63	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-64
B1L-65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-66
B1L-67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-68
B1L-69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-70
B1L-71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-72
B1L-73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-74
B1L-75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-76
B1L-77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-78
B1L-79	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1L-80
B1L-81	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1L-82
B1L-83	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1L-84
			Total Load:	34104 VA		30392 VA		27300 VA					
			Total Amps:	288 A		257 A		228 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	15456 VA	100.00%	15456 VA		
Receptacle	62840 VA	57.96%	36420 VA	**Total Conn. Load:**	91796 VA
Power	13500 VA	100.00%	13500 VA	**Total Est. Demand:**	65376 VA
				Total Conn.:	255 A
				Total Est. Demand:	181 A

Notes:

1. GFCI TYPE CIRCUIT BREAKER.

Branch Panel: B1H

Location: ELEC 1147A **Supply From:** MSB **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42,000A **Mains Type:** MLO **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WSHP-A1.01	20 A	3	1579...	2715...					3	20 A	WSHP-A1.02	2
3	--	--	--			1579...	2715...			--	--	--	4
5	--	--	--					1579...	2715...	--	--	--	6
7	WSHP-A1.03	20 A	3	2715...	1440...					1	20 A	WSHP-A1.04	8
9	--	--	--			2715...	2715...			3	20 A	WSHP-A1.06	10
11	--	--	--					2715...	2715...	--	--	--	12
13	WSHP-A1.05	20 A	1	1440...	2715...					--	--	--	14
15	WSHP-A1.07	20 A	3			2715...	2715...			3	20 A	WSHP-B1.02	16
17	--	--	--					2715...	2715...	--	--	--	18
19	--	--	--	2715...	2715...					--	--	--	20
21	WSHP-A1.09	20 A	3			3269...	2715...			3	20 A	WSHP-B1.04	22
23	--	--	--					3269...	2715...	--	--	--	24
25	--	--	--	3269...	2715...					--	--	--	26
27	WSHP-B1.01	20 A	3			2715...	3269...			3	20 A	WSHP-B1.06	28
29	--	--	--					2715...	3269...	--	--	--	30
31	--	--	--	2715...	3269...					--	--	--	32
33	WSHP-B1.03	20 A	3			2715...	0 VA			1	20 A	SPARE	34
35	--	--	--					2715...	0 VA	1	20 A	SPARE	36
37	--	--	--	2715...	0 VA					1	20 A	SPARE	38
39	WSHP-B1.05	20 A	3			2715...	0 VA			1	20 A	SPARE	40
41	--	--	--					2715...	0 VA	1	20 A	SPARE	42
43	--	--	--	2715...	0 VA					1	20 A	SPARE	44
45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	46
47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	50
51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	56
57	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	58
59	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	62
63	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	64
65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	68
69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	70
71	SPARE	20 A	1					0 VA	1752...	1	20 A	L.-CORRIDOR	72
73	SPARE	20 A	1	0 VA	1220...					1	20 A	L.-CORRIDOR	74
75	SPARE	20 A	1			0 VA	2590...			1	20 A	L.-CLASSROOMS & OFFICE SPACE	76
77	SPARE	20 A	1					0 VA	1979...	1	20 A	L.-CLASSROOMS & OFFICE SPACE	78
79	TRANSFORMER 'TB1L'	175 A	3	3410...	2468...					1	20 A	L.-CLASSROOMS	80
81	--	--	--			3039...	2520...			1	20 A	L.-CLASSROOMS	82
83	--	--	--					2730...	2560...	1	20 A	L.-CLASSROOMS	84
			Total Load:	73220 VA		68050 VA		66139 VA					
			Total Amps:	265 A		247 A		239 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	115981 VA	100.00%	115981 VA		
Receptacle	62840 VA	57.96%	36420 VA	**Total Conn. Load:**	207410 VA
Lighting	15089 VA	100.00%	15089 VA	**Total Est. Demand:**	180990 VA
Power	13500 VA	100.00%	13500 VA	**Total Conn.:**	249 A
				Total Est. Demand:	218 A

Notes:

Branch Panel: B2L

Location: ELEC 1189 **Supply From:** TB2L **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22,000A **Mains Type:** MCB **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B2L-1	PANEL 'S6'	100 A	3	5416...	1000...					1	20 A	COPY MACHINE	B2L-2
B2L-3	--	--	--			4500...	1000...			1	20 A	COPY MACHINE	B2L-4
B2L-5	--	--	--					5056...	720 VA	1	20 A	R.-MAIL 1187	B2L-6
B2L-7	HAND DRYER	25 A	1	1725...	720 VA					1	20 A	R.-OFFICE1186D	B2L-8
B2L-9	R.-OFFICE 1184	20 A	1			900 VA	1000...			1	20 A	REFRIGERATOR (NOTE:1)	B2L-10
B2L-11	R.-ADMIN 1182	20 A	1					720 VA	360 VA	1	20 A	R.-NURSE 1186	B2L-12
B2L-13	R.-CONFERENCE 1180	20 A	1	1440...	360 VA					1	20 A	R.-NURSE 1186	B2L-14
B2L-15	R.-AP 1178	20 A	1			720 VA	1260...			1	20 A	R.-NURSE 1186	B2L-16
B2L-17	R.-OFFICE 1176	20 A	1					720 VA	720 VA	1	20 A	R.-ISO 1186A	B2L-18
B2L-19	COPY MACHINE	20 A	1	1000...	720 VA					1	20 A	R.-OFFICE 1185	B2L-20
B2L-21	R.-RECEPTION 1173	20 A	1			360 VA	1725...			1	25 A	HAND DRYER	B2L-22
B2L-23	R.-RECEPTION 1173	20 A	1					540 VA	1725...	1	25 A	HAND DRYER	B2L-24
B2L-25	R.-WAITING 1171	20 A	1	1080...	360 VA					1	20 A	R.-TOILETS 1181 & 1183	B2L-26
B2L-27	R.-OFFICE 1175	20 A	1			720 VA	500 VA			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B2L-28
B2L-29	R.-BOOK 1177	20 A	1					720 VA	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B2L-30
B2L-31	R.-SRO 1190	20 A	1	720 VA	1440...					1	20 A	R.-GENERAL PURPOSE	B2L-32
B2L-33	R.-CONFERENCE 1188	20 A	1			1620...	720 VA			1	20 A	R.-OFFICE 1193	B2L-34
B2L-35	MICOWAVE (NOTE:1)	20 A	1					1000...	900 VA	1	20 A	R.-OFFICE 1192	B2L-36
B2L-37	MICOWAVE (NOTE:1)	20 A	1	1000...	720 VA					1	20 A	R.-OFFICE 1194	B2L-38
B2L-39	R.-MAIL 1187	20 A	1			720 VA	900 VA			1	20 A	R.-VESTIBULE 1170	B2L-40
B2L-41	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1725...	1	25 A	HAND DRYER	B2L-42
B2L-43	R.-STORE 1164	20 A	1	900 VA	500 VA					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	B2L-44
B2L-45	R.-WORKROOM 1158	20 A	1			1080...	1260...			1	20 A	R.-GENERAL PURPOSE	B2L-46
B2L-47	COPY MACHINE	20 A	1					1000...	180 VA	1	20 A	METAL DETECTORS	B2L-48
B2L-49	VENDING (NOTE:1)	20 A	1	1000...	1000...					1	20 A	WASHING MACHINE (NOTE:1)	B2L-50
B2L-51	VENDING (NOTE:1)	20 A	1			1000...	2500...			2	30 A	DRYER	B2L-52
B2L-53	REFRIGERATOR (NOTE:1)	20 A	1					1000...	2500...	--	--	--	B2L-54
B2L-55	R.-WORKROOM 1158	20 A	1	360 VA	0 VA					1	20 A	SPARE	B2L-56
B2L-57	MICOWAVE (NOTE:1)	20 A	1			1000...	0 VA			1	20 A	SPARE	B2L-58
B2L-59	MICOWAVE (NOTE:1)	20 A	1					1000...	0 VA	1	20 A	SPARE	B2L-60
B2L-61	HAND DRYER	25 A	1	1725...	0 VA					1	20 A	SPARE	B2L-62
B2L-63	HAND DRYER	25 A	1			1725...	0 VA			1	20 A	SPARE	B2L-64
B2L-65	R.-TOILETS 1158A & 1158B	20 A	1					360 VA	0 VA	1	20 A	SPARE	B2L-66
B2L-67	HAND DRYER	25 A	1	1725...	0 VA					1	20 A	SPARE	B2L-68
B2L-69	HAND DRYER	25 A	1			1725...	0 VA			1	20 A	SPARE	B2L-70
B2L-71	HAND DRYER	25 A	1					1725...	0 VA	1	20 A	SPARE	B2L-72
B2L-73	HAND DRYER	25 A	1	1725...	0 VA					1	20 A	SPARE	B2L-74
B2L-75	R.-OFFICE 1159	20 A	1			720 VA	0 VA			1	20 A	SPARE	B2L-76
B2L-77	R.-GENERAL PURPOSE	20 A	1					1260...	0 VA	1	20 A	SPARE	B2L-78
B2L-79	ELECTRIC WATER COOLER (NOTE:1)	20 A	1	500 VA	0 VA					1	20 A	SPARE	B2L-80
B2L-81	ELECTRIC WATER COOLER (NOTE:1)	20 A	1			500 VA	0 VA			1	20 A	SPARE	B2L-82
B2L-83	ELECTRIC WATER COOLER (NOTE:1)	20 A	1					500 VA	0 VA	1	20 A	SPARE	B2L-84
			Total Load:	27136 VA		28155 VA		25931 VA					
			Total Amps:	228 A		236 A		216 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2352 VA	100.00%	2352 VA		
Receptacle	37620 VA	63.29%	23810 VA	**Total Conn. Load:**	81222 VA
Power	41250 VA	100.00%	41250 VA	**Total Est. Demand:**	67412 VA
				Total Conn.:	225 A
				Total Est. Demand:	187 A

Notes:

1. GFCI TYPE CIRCUIT BREAKER.

Branch Panel: B2H

Location: ELEC 1189 **Supply From:** MSB **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42,000A **Mains Type:** MLO **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B2H-1	WSHP-C1.01	20 A	3	2715...	2715...					3	20 A	WSHP-C1.02	B2H-2
B2H-3	--	--	--			2715...	2715...			--	--	--	B2H-4
B2H-5	--	--	--					2715...	2715...	--	--	--	B2H-6
B2H-7	WSHP-C1.03	20 A	1	1440...	1551...					3	20 A	WSHP-C1.04	B2H-8
B2H-9	WSHP-C1.05	20 A	3			3518...	1551...			--	--	--	B2H-10
B2H-11	--	--	--					3518...	1551...	--	--	--	B2H-12
B2H-13	--	--	--	3518...	1551...					3	20 A	WSHP-C1.06	B2H-14
B2H-15	WSHP-C1.07	20 A	1			2548...	1551...			--	--	--	B2H-16
B2H-17	WSHP-C1.09	20 A	1					2548...	1551...	--	--	--	B2H-18
B2H-19	WSHP-C1.11	20 A	3	2798...	1551...					3	20 A	WSHP-C1.08	B2H-20
B2H-21	--	--	--			2798...	1551...			--	--	--	B2H-22
B2H-23	--	--	--					2798...	1551...	--	--	--	B2H-24
B2H-25	WSHP-C1.13	20 A	3	1551...	1551...					3	20 A	WSHP-C1-10	B2H-26
B2H-27	--	--	--			1551...	1551...			--	--	--	B2H-28
B2H-29	--	--	--					1551...	1551...	--	--	--	B2H-30
B2H-31	WSHP-C1.15	20 A	1	2548...	2548...					1	20 A	WSHP-C1-12	B2H-32
B2H-33	SPARE	20 A	1			0 VA	2548...			1	20 A	WSHP-C1.14	B2H-34
B2H-35	SPARE	20 A	1					0 VA	1551...	3	20 A	WSHP-C1.16	B2H-36
B2H-37	SPARE	20 A	1	0 VA	1551...					--	--	--	B2H-38
B2H-39	SPARE	20 A	1			0 VA	1551...			--	--	--	B2H-40
B2H-41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-42
B2H-43	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-44
B2H-45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-46
B2H-47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-48
B2H-49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-50
B2H-51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-52
B2H-53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-54
B2H-55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-56
B2H-57	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-58
B2H-59	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-60
B2H-61	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-62
B2H-63	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-64
B2H-65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-66
B2H-67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-68
B2H-69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-70
B2H-71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2H-72
B2H-73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2H-74
B2H-75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2H-76
B2H-77	SPARE	20 A	1					0 VA	832 VA	1	20 A	L.-CORRIDOR	B2H-78
B2H-79	TRANSFORMER 'TB2L'	175 A	3	2713...	2422...					1	20 A	L.-FRONT OFFICE AREA	B2H-80
B2H-81	--	--	--			2815...	1922...			1	20 A	L.-CLASSROOMS	B2H-82
B2H-83	--	--	--					2593...	2156...	1	20 A	L.-FRONT OFFICE & STORE	B2H-84
			Total Load:	57147 VA		56226 VA		52520 VA					
			Total Amps:	208 A		205 A		190 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	79691 VA	100.00%	79691 VA		
Receptacle	37620 VA	63.29%	23810 VA	**Total Conn. Load:**	165893 VA
Lighting	7332 VA	100.00%	7332 VA	**Total Est. Demand:**	152083 VA
Power	41250 VA	100.00%	41250 VA	**Total Conn.:**	200 A
				Total Est. Demand:	183 A

Notes:

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NO. E106

PROJ. NO. 020420.00

KEY PLAN

B1L	B1H
B2L	B2H

Branch Panel: B1EL

Location: ELEC 1147A	**Volts:** 120/208 Wye	**A.I.C. Rating:** 10,000A	
Supply From: TB1EL	**Phases:** 3	**Mains Type:** MCB	
Mounting: SURFACE	**Wires:** 4	**Mains Rating:** 100 A	
Enclosure: INDOOR		**MCB Rating:** 100 A	

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B1EL-1	R.-DATA 1147	20 A	1	360 VA	0 VA					1	20 A	SPARE	B1EL-2
B1EL-3	R.-DATA 1147	20 A	1			360 VA	0 VA			1	20 A	SPARE	B1EL-4
B1EL-5	R.-DATA 1147	20 A	1					360 VA	0 VA	1	20 A	SPARE	B1EL-6
B1EL-7	DSS-A1.01	30 A	2	1030...	0 VA					1	20 A	SPARE	B1EL-8
B1EL-9	--	--	--			1030...	0 VA			1	20 A	SPARE	B1EL...
B1EL...	CORRIDOR 1100 DAC	20 A	1					500 VA	0 VA	1	20 A	SPARE	B1EL...
B1EL...	CORRIDOR 1100 DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1146	20 A	1			500 VA	0 VA			1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1148	20 A	1					500 VA	0 VA	1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1150	20 A	1	500 VA	0 VA					1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1143	20 A	1			500 VA	0 VA			1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1145	20 A	1					500 VA	0 VA	1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1152	20 A	1	500 VA	0 VA					1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1148	20 A	1			500 VA	0 VA			1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1149	20 A	1					500 VA	0 VA	1	20 A	SPARE	B1EL...
B1EL...	EPO - CHEM LAB 1151	20 A	1	500 VA	0 VA					1	20 A	SPARE	B1EL...
B1EL...	SMOKE DAMPER ACTUATORS	20 A	1			1250...	0 VA			1	20 A	SPARE	B1EL...
B1EL...	SMOKE DAMPER ACTUATORS	20 A	1					1250...	0 VA	1	20 A	SPARE	B1EL...
B1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EL...
B1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EL...
B1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EL...
			Total Load:	3390 VA		4140 VA		3610 VA					
			Total Amps:	28 A		35 A		30 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	11139 VA
Power	8000 VA	100.00%	8000 VA	**Total Est. Demand:**	11139 VA
				Total Conn.:	31 A
				Total Est. Demand:	31 A

Notes:

Branch Panel: B1EH

Location: ELEC 1147A	**Volts:** 480/277 Wye	**A.I.C. Rating:** 14,000A	
Supply From: EMDP	**Phases:** 3	**Mains Type:** MLO	
Mounting: SURFACE	**Wires:** 4	**Mains Rating:** 125 A	
Enclosure: INDOOR		**MCB Rating:** 125 A	

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B1EH-1	L.-CORRIDOR	20 A	1	660 VA	0 VA					1	20 A	SPARE	B1EH-2
B1EH-3	L.-CLASSROOMS & OFFICE SPACE	20 A	1			730 VA	0 VA			1	20 A	SPARE	B1EH-4
B1EH-5	L.-CLASSROOMS	20 A	1					620 VA	0 VA	1	20 A	SPARE	B1EH-6
B1EH-7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EH-8
B1EH-9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B1EH...
B1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B1EH...
B1EH...	TRANSFORMER 'TB1EL'	50 A	3	3390...	0 VA					1	20 A	SPARE	B1EH...
B1EH...	--	--	--			4140...	0 VA			1	20 A	SPARE	B1EH...
B1EH...	--	--	--					3610...	0 VA	1	20 A	SPARE	B1EH...
			Total Load:	4050 VA		4870 VA		4230 VA					
			Total Amps:	15 A		18 A		15 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	13149 VA
Lighting	2010 VA	100.00%	2010 VA	**Total Est. Demand:**	13149 VA
Power	8000 VA	100.00%	8000 VA	**Total Conn.:**	16 A
				Total Est. Demand:	16 A

Notes:

Branch Panel: B2EL

Location: ELEC 1189	**Volts:** 120/208 Wye	**A.I.C. Rating:** 10,000A	
Supply From: TB2EL	**Phases:** 3	**Mains Type:** MCB	
Mounting: SURFACE	**Wires:** 4	**Mains Rating:** 100 A	
Enclosure: INDOOR		**MCB Rating:** 100 A	

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
B2EL-1	R.-DATA 1157C	20 A	1	360 VA	0 VA					1	20 A	SPARE	B2EL-2
B2EL-3	R.-DATA 1157C	20 A	1			360 VA	0 VA			1	20 A	SPARE	B2EL-4
B2EL-5	R.-DATA 1157C	20 A	1					360 VA	0 VA	1	20 A	SPARE	B2EL-6
B2EL-7	R.-DATA 1157C	20 A	1	360 VA	0 VA					1	20 A	SPARE	B2EL-8
B2EL-9	DSS-C1.01	30 A	2			1030...	0 VA			1	20 A	SPARE	B2EL...
B2EL...	--	--	--					1030...	0 VA	1	20 A	SPARE	B2EL...
B2EL...	MAIN ENTRANCE DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	B2EL...
B2EL...	CORRIDOR 1100A DAC	20 A	1			500 VA	0 VA			1	20 A	SPARE	B2EL...
B2EL...	VESTIBULE 1170 DAC	20 A	1					1000...	0 VA	1	20 A	SPARE	B2EL...
B2EL...	VESTIBULE 1170 DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	B2EL...
B2EL...	EPO - BIO LAB 1160	20 A	1			500 VA	0 VA			1	20 A	SPARE	B2EL...
B2EL...	EPO - BIO LAB 1162	20 A	1					500 VA	0 VA	1	20 A	SPARE	B2EL...
B2EL...	FACP	20 A	1	500 VA	0 VA					1	20 A	SPARE	B2EL...
B2EL...	SMOKE DAMPER ACTUATORS	20 A	1			500 VA	0 VA			1	20 A	SPARE	B2EL...
B2EL...	STORE 1164 DAC	20 A	1					500 VA	0 VA	1	20 A	SPARE	B2EL...
B2EL...	MAIL ROOM 1187 DAC	20 A	1	500 VA	0 VA					1	20 A	SPARE	B2EL...
B2EL...	R.-RECEPTION 1173 DAC	20 A	1			500 VA	0 VA			1	20 A	SPARE	B2EL...
B2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2EL...
B2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	B2EL...
B2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	B2EL...
B2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	B2EL...
			Total Load:	2720 VA		3390 VA		3390 VA					
			Total Amps:	23 A		29 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1440 VA	100.00%	1440 VA	**Total Conn. Load:**	9499 VA
Power	6000 VA	100.00%	6000 VA	**Total Est. Demand:**	9499 VA
				Total Conn.:	26 A
				Total Est. Demand:	26 A

Notes:

Branch Panel: B2EH

Location: ELEC 1189	**Volts:** 480/277 Wye	**A.I.C. Rating:** 14,000A	
Supply From: EMDP	**Phases:** 3	**Mains Type:** MLO	
Mounting: SURFACE	**Wires:** 4	**Mains Rating:** 125 A	
Enclosure: INDOOR		**MCB Rating:** 125 A	

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	L.-CORRIDOR	20 A	1	616 VA	0 VA					1	20 A	SPARE	2
3	L.-CLASSROOMS & OFFICE SPACE	20 A	1			836 VA	0 VA			1	20 A	SPARE	4
5	L.-FRONT OFFICE & STORE	20 A	1					452 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	TRANSFORMER 'TB2EL'	50 A	3	2720...	0 VA					1	20 A	SPARE	38
39	--	--	--			3390...	0 VA			1	20 A	SPARE	40
41	--	--	--					3390...	0 VA	1	20 A	SPARE	42
			Total Load:	3336 VA		4226 VA		3842 VA					
			Total Amps:	12 A		16 A		14 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1440 VA	100.00%	1440 VA	**Total Conn. Load:**	11403 VA
Lighting	1904 VA	100.00%	1904 VA	**Total Est. Demand:**	11403 VA
Power	6000 VA	100.00%	6000 VA	**Total Conn.:**	14 A
				Total Est. Demand:	14 A

Notes:

mcmillan
pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

CES
CAROLINA ENGINEERING SOLUTIONS, LLC
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NO. E107

PROJ. NO. 020420.00

KEY PLAN

B1EL	B1EH
B2EL	B2EH

1 2 3 4 5

Branch Panel: C1L

Location: ELEC 1240 **Supply From:** TC1L **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22,000A **Mains Type:** MCB **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C1L-1	R.- CLASSROOM 1208	20 A	1	1260...	720 VA					1	20 A	R.-MEDIA 1200	C1L-2
C1L-3	R.- CLASSROOM 1208	20 A	1			720 VA	720 VA			1	20 A	R.-MEDIA 1200	C1L-4
C1L-5	SPARE	20 A	1					0 VA	720 VA	1	20 A	R.-OFFICE 1202	C1L-6
C1L-7	R.-WORKROOM 1214	20 A	1	900 VA	1080...					1	20 A	R.-OFFICE 1206	C1L-8
C1L-9	COPY MACHINE	20 A	1			1000...	900 VA			1	20 A	R.-MEDIA 1200	C1L-10
C1L-11	COPY MACHINE	20 A	1					1000...	180 VA	1	20 A	R.-MEDIA 1200	C1L-12
C1L-13	REFRIGERATOR (NOTE:1)	20 A	1	1000...	540 VA					1	20 A	R.-MEDIA 1200	C1L-14
C1L-15	R.-WORKROOM 1214	20 A	1			720 VA	900 VA			1	20 A	R.-CONFERENCE 1200B	C1L-16
C1L-17	MICROWAVE (NOTE:1)	20 A	1					1000...	180 VA	1	20 A	R.-CONFERENCE 1200B	C1L-18
C1L-19	R.-CONFERENCE 1200A	20 A	1	900 VA	720 VA					1	20 A	R.-GENERAL PURPOSE	C1L-20
C1L-21	R.-CONFERENCE 1200A	20 A	1			180 VA	540 VA			1	20 A	R.-MEDIA 1210	C1L-22
C1L-23	R.-MEDIA 1200	20 A	1					900 VA	1080...	1	20 A	R.-MEDIA 1210	C1L-24
C1L-25	R.-MEDIA 1200	20 A	1	720 VA	1080...					1	20 A	R.-MEDIA 1210	C1L-26
C1L-27	R.-MEDIA 1200	20 A	1			720 VA	540 VA			1	20 A	R.-MEDIA 1210	C1L-28
C1L-29	R.-MEDIA 1200	20 A	1					720 VA	540 VA	1	20 A	R.-MEDIA 1210	C1L-30
C1L-31	R.-MEDIA 1200	20 A	1	900 VA	540 VA					1	20 A	R.-MEDIA 1212B	C1L-32
C1L-33	R.-MEDIA 1200	20 A	1			360 VA	360 VA			1	20 A	R.-MEDIA 1212B	C1L-34
C1L-35	R.-MEDIA 1200	20 A	1					360 VA	360 VA	1	20 A	R.-MEDIA 1212B	C1L-36
C1L-37	R.-MEDIA 1200	20 A	1	360 VA	720 VA					1	20 A	R.-MEDIA 1212B	C1L-38
C1L-39	R.-MEDIA 1200	20 A	1			1440...	720 VA			1	20 A	R.-MEDIA 1212B	C1L-40
C1L-41	R.-MEDIA 1200	20 A	1					720 VA	540 VA	1	20 A	R.-MEDIA 1212C	C1L-42
C1L-43	R.-GROUP 1200D	20 A	1	1080...	540 VA					1	20 A	R.-MEDIA 1212C	C1L-44
C1L-45	R.-GROUP 1200D	20 A	1			180 VA	540 VA			1	20 A	R.-MEDIA 1212C	C1L-46
C1L-47	R.-GROUP 1200C	20 A	1					900 VA	360 VA	1	20 A	R.-MEDIA 1212C	C1L-48
C1L-49	R.-GROUP 1200C	20 A	1	180 VA	360 VA					1	20 A	R.-MEDIA 1212C	C1L-50
C1L-51	ELECTRIC WATER COOLER (NOTE:1)	20 A	1			500 VA	1260...			1	20 A	R.-MEDIA 1212A	C1L-52
C1L-53	ELECTRIC WATER COOLER (NOTE:1)	20 A	1					500 VA	540 VA	1	20 A	R.-MEDIA 1212A	C1L-54
C1L-55	HAND DRYER	25 A	1	1725...	540 VA					1	20 A	R.-CLASSROOM 1205	C1L-56
C1L-57	HAND DRYER	25 A	1			1725...	1260...			1	20 A	R.-CLASSROOM 1207	C1L-58
C1L-59	R.-CLASSROOM 1215	20 A	1					1260...	540 VA	1	20 A	R.-CLASSROOM 1207	C1L-60
C1L-61	R.-CLASSROOM 1215	20 A	1	540 VA	1725...					1	20 A	HAND DRYER	C1L-62
C1L-63	R.-CLASSROOM 1213	20 A	1			1260...	500 VA			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C1L-64
C1L-65	R.-CLASSROOM 1213	20 A	1					360 VA	500 VA	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C1L-66
C1L-67	R.-CLASSROOM 1211	20 A	1	1260...	500 VA					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C1L-68
C1L-69	R.-CLASSROOM 1211	20 A	1			540 VA	500 VA			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C1L-70
C1L-71	R.-CLASSROOM 1209	20 A	1					1260...	1440...	1	20 A	R.-GENERAL PURPOSE	C1L-72
C1L-73	R.-CLASSROOM 1209	20 A	1	360 VA	1440...					1	20 A	R.-GENERAL PURPOSE	C1L-74
C1L-75	R.-CLASSROOM 1201	20 A	1			1260...	1080...			1	20 A	R.-ROOF	C1L-76
C1L-77	R.-CLASSROOM 1201	20 A	1					540 VA	0 VA	1	20 A	SPARE	C1L-78
C1L-79	R.-CLASSROOM 1203	20 A	1	1260...	0 VA					1	20 A	SPARE	C1L-80
C1L-81	R.-CLASSROOM 1203	20 A	1			540 VA	0 VA			1	20 A	SPARE	C1L-82
C1L-83	R.-CLASSROOM 1205	20 A	1					1260...	0 VA	1	20 A	SPARE	C1L-84
			Total Load:	22950 VA		20965 VA		17760 VA					
			Total Amps:	195 A		179 A		148 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	49500 VA	60.10%	29750 VA		
Power	12175 VA	100.00%	12175 VA	**Total Conn. Load:**	61675 VA
				Total Est. Demand:	41925 VA
				Total Conn.:	171 A
				Total Est. Demand:	116 A

Notes:

1. GFCI TYPE CIRCUIT BREAKER.

Branch Panel: C1H

Location: ELEC 1240 **Supply From:** MSB **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42,000A **Mains Type:** MLO **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C1H-1	WSHP-A2.01	20 A	3	1579	1579					3	20 A	WSHP-A2.02	C1H-2
C1H-3	--	--	--			1579	1579			--	--	--	C1H-4
C1H-5	--	--	--					1579	1579	--	--	--	C1H-6
C1H-7	WSHP-A2.03	20 A	1	1440	1440					1	20 A	WSHP-A2.04	C1H-8
C1H-9	WSHP-A2.05	25 A	3			4155	1579			3	20 A	WSHP-A2.06	C1H-10
C1H-11	--	--	--					4155	1579	--	--	--	C1H-12
C1H-13	--	--	--	4155	1579					--	--	--	C1H-14
C1H-15	WSHP-A2.07	20 A	3			1579	1579			3	20 A	WSHP-A2.08	C1H-16
C1H-17	--	--	--					1579	1579	--	--	--	C1H-18
C1H-19	--	--	--	1579	1579					--	--	--	C1H-20
C1H-21	WSHP-A2.09	20 A	3			1579	1579			3	20 A	WSHP-B2.02	C1H-22
C1H-23	--	--	--					1579	1579	--	--	--	C1H-24
C1H-25	--	--	--	1579	1579					--	--	--	C1H-26
C1H-27	WSHP-B2.01	20 A	3			1579	1579			3	20 A	WSHP-B2.04	C1H-28
C1H-29	--	--	--					1579	1579	--	--	--	C1H-30
C1H-31	--	--	--	1579	1579					--	--	--	C1H-32
C1H-33	WSHP-B2.03	20 A	3			1579	2548			1	20 A	WSHP-B2.06	C1H-34
C1H-35	--	--	--					1579	1745	3	20 A	WSHP-B2.08	C1H-36
C1H-37	--	--	--	1579	1745					--	--	--	C1H-38
C1H-39	WSHP-B2.05	30 A	3			4875	1745			--	--	--	C1H-40
C1H-41	--	--	--					4875	1440	1	20 A	WSHP-B2.10	C1H-42
C1H-43	--	--	--	4875	0					1	20 A	SPARE	C1H-44
C1H-45	WSHP-B2.07	20 A	1			2548	0			1	20 A	SPARE	C1H-46
C1H-47	WSHP-B2.09	25 A	3					4155	0	1	20 A	SPARE	C1H-48
C1H-49	--	--	--	4155	0					1	20 A	SPARE	C1H-50
C1H-51	--	--	--			4155	0			1	20 A	SPARE	C1H-52
C1H-53	SPARE	20 A	1					0	0	1	20 A	SPARE	C1H-54
C1H-55	SPARE	20 A	1	0	0					1	20 A	SPARE	C1H-56
C1H-57	SPARE	20 A	1			0	0			1	20 A	SPARE	C1H-58
C1H-59	SPARE	20 A	1					0	0	1	20 A	SPARE	C1H-60
C1H-61	SPARE	20 A	1	0	0					1	20 A	SPARE	C1H-62
C1H-63	SPARE	20 A	1			0	0			1	20 A	SPARE	C1H-64
C1H-65	SPARE	20 A	1					0	0	1	20 A	SPARE	C1H-66
C1H-67	SPARE	20 A	1	0	0					1	20 A	SPARE	C1H-68
C1H-69	SPARE	20 A	1			0	1423			1	20 A	L.-CORRIDOR	C1H-70
C1H-71	SPARE	20 A	1					0	2780	1	20 A	L.-CORRIDOR	C1H-72
C1H-73	SPARE	20 A	1	0	2124					1	20 A	L.-CLASSROOMS	C1H-74
C1H-75	SPARE	20 A	1			0	1100			1	20 A	L.-CLASSROOMS	C1H-76
C1H-77	SPARE	20 A	1					0	1800	1	20 A	ASSUMED LOADS FOR MEDIA CENTER	C1H-78
C1H-79	TRANSFORMER 'TC1L'	175 A	3	22950	1800					1	20 A	ASSUMED LOADS FOR MEDIA CENTER	C1H-80
C1H-81	--	--	--			20965	1719			1	20 A	L.-CLASSROOMS	C1H-82
C1H-83	--	--	--					17760	2300	1	20 A	L.-CLASSROOMS	C1H-84
			Total Load:	60474 VA		61023 VA		56800 VA					
			Total Amps:	220 A		222 A		205 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	101577 VA	100.00%	101577 VA		
Receptacle	49500 VA	60.10%	29750 VA	**Total Conn. Load:**	178298 VA
Lighting	15046 VA	100.00%	15046 VA	**Total Est. Demand:**	158548 VA
Power	12175 VA	100.00%	12175 VA	**Total Conn.:**	214 A
				Total Est. Demand:	191 A

Notes:

Branch Panel: C2L

Location: ELEC 1221 **Supply From:** TC2L **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22,000A **Mains Type:** MCB **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C2L-1	R.-CLASSROOM 1234	20 A	1	1440	1000					1	20 A	VENDING MACHINE (NOTE:1)	C2L-2
C2L-3	R.-CLASSROOM 1234	20 A	1			540	1000			1	20 A	REFRIGERATOR (NOTE:1)	C2L-4
C2L-5	R.-CLASSROOM 1232	20 A	1					1440	540	1	20 A	R.-WORKROOM 1226	C2L-6
C2L-7	R.-CLASSROOM 1232	20 A	1	540	1000					1	20 A	MICROWAVE (NOTE:1)	C2L-8
C2L-9	R.-CLASSROOM 1230	20 A	1			1440	1000			1	20 A	MICROWAVE (NOTE:1)	C2L-10
C2L-11	R.-CLASSROOM 1230	20 A	1					540	900	1	20 A	R.-WORKROOM 1226	C2L-12
C2L-13	R.-CLASSROOM 1235	20 A	1	1620	1725					1	25 A	HAND DRYER	C2L-14
C2L-15	R.-CLASSROOM 1235	20 A	1			540	1725			1	25 A	HAND DRYER	C2L-16
C2L-17	R.-CLASSROOM 1233	20 A	1					1440	1725	1	25 A	HAND DRYER	C2L-18
C2L-19	R.-CLASSROOM 1233	20 A	1	540	1725					1	25 A	HAND DRYER	C2L-20
C2L-21	R.-CLASSROOM 1231	20 A	1			1440	1725			1	25 A	HAND DRYER	C2L-22
C2L-23	R.-CLASSROOM 1231	20 A	1					540	1725	1	25 A	HAND DRYER	C2L-24
C2L-25	R.-CLASSROOM 1229	20 A	1	1440	1725					1	25 A	HAND DRYER	C2L-26
C2L-27	R.-CLASSROOM 1229	20 A	1			540	1725			1	25 A	HAND DRYER	C2L-28
C2L-29	R.-OFFICE 1222	20 A	1					720	1725	1	25 A	HAND DRYER	C2L-30
C2L-31	R.-OFFICE 1225	20 A	1	720	1725					1	25 A	HAND DRYER	C2L-32
C2L-33	R.-OFFICE 1224	20 A	1			720	500			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C2L-34
C2L-35	R.-OFFICE 1227	20 A	1					720	500	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C2L-36
C2L-37	R.-WORKROOM 1226	20 A	1	360	500					1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C2L-38
C2L-39	COPY MACHINE	20 A	1			1000	500			1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C2L-40
C2L-41	VENDING MACHINE (NOTE:1)	20 A	1					1000	500	1	20 A	ELECTRIC WATER COOLER (NOTE:1)	C2L-42
C2L-43	ELECTRIC WATER COOLER (NOTE:1)	20 A	1	500	0					1	20 A	SPARE	C2L-44
C2L-45	ELECTRIC WATER COOLER (NOTE:1)	20 A	1			500	0			1	20 A	SPARE	C2L-46
C2L-47	ELECTRIC WATER COOLER (NOTE:1)	20 A	1					500	0	1	20 A	SPARE	C2L-48
C2L-49	R.-GENERAL PURPOSE	20 A	1	1440	0					1	20 A	SPARE	C2L-50
C2L-51	R.-GENERAL PURPOSE	20 A	1			1620	0			1	20 A	SPARE	C2L-52
C2L-53	R.-ROOF	20 A	1					540	0	1	20 A	SPARE	C2L-54
C2L-55	WATER HEATER (WH-1)	20 A	1	600	0					1	20 A	SPARE	C2L-56
C2L-57	WH RECIRCULATION PMUMP (RP-1)	20 A	1			864	0			1	20 A	SPARE	C2L-58
C2L-59	SPARE	20 A	1					0	0	1	20 A	SPARE	C2L-60
C2L-61	SPARE	20 A	1	0	0					1	20 A	SPARE	C2L-62
C2L-63	SPARE	20 A	1			0	0			1	20 A	SPARE	C2L-64
C2L-65	SPARE	20 A	1					0	0	1	20 A	SPARE	C2L-66
C2L-67	SPARE	20 A	1	0	0					1	20 A	SPARE	C2L-68
C2L-69	SPARE	20 A	1			0	0			1	20 A	SPARE	C2L-70
C2L-71	SPARE	20 A	1					0	0	1	20 A	SPARE	C2L-72
C2L-73	SPARE	20 A	1	0	0					1	20 A	SPARE	C2L-74
C2L-75	SPARE	20 A	1			0	0			1	20 A	SPARE	C2L-76
C2L-77	SPARE	20 A	1					0	0	1	20 A	SPARE	C2L-78
C2L-79	SPARE	20 A	1	0	0					1	20 A	SPARE	C2L-80
C2L-81	SPARE	20 A	1			0	0			1	20 A	SPARE	C2L-82
C2L-83	SPARE	20 A	1					0	0	1	20 A	SPARE	C2L-84
			Total Load:	18600 VA		17379 VA		15055 VA					
			Total Amps:	158 A		148 A		125 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	22320 VA	72.40%	16160 VA		
Power	28714 VA	100.00%	28714 VA	**Total Conn. Load:**	51034 VA
				Total Est. Demand:	44874 VA
				Total Conn.:	142 A
				Total Est. Demand:	125 A

Notes:

1. GFCI TYPE CIRCUIT BREAKER.

Branch Panel: C2H

Location: ELEC 1221 **Supply From:** MSB **Mounting:** SURFACE **Enclosure:** INDOOR
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 42,000A **Mains Type:** MLO **Mains Rating:** 400 A **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WSHP-C2.01	20 A	3	1579	1579					3	20 A	WSHP-C2.02	2
3	--	--	--			1579	1579			--	--	--	4
5	--	--	--					1579	1579	--	--	--	6
7	WSHP-C2.03	20 A	3	1579	1440					1	20 A	WSHP-C2.04	8
9	--	--	--			1579	1579			3	20 A	WSHP-C2.06	10
11	--	--	--					1579	1579	--	--	--	12
13	WSHP-C2.05	20 A	3	1579	1579					--	--	--	14
15	--	--	--			1579	1579			3	20 A	WSHP-C2.08	16
17	--	--	--					1579	1579	--	--	--	18
19	WSHP-C2.07	20 A	3	1579	1579					--	--	--	20
21	--	--	--			1579	1551			3	20 A	WSHP-C2.10	22
23	--	--	--					1579	1551	--	--	--	24
25	WSHP-C2.09	20 A	3	3267	1551					--	--	--	26
27	--	--	--			3267	1745			3	20 A	WSHP-C2.12	28
29	--	--	--					3267	1745	--	--	--	30
31	WSHP-C2.11	20 A	1	1501	1745					--	--	--	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	SPARE	20 A	1	0	0					1	20 A	SPARE	44
45	SPARE	20 A	1			0	0			1	20 A	SPARE	46
47	SPARE	20 A	1					0	0	1	20 A	SPARE	48
49	SPARE	20 A	1	0	0					1	20 A	SPARE	50
51	SPARE	20 A	1			0	0			1	20 A	SPARE	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	0					1	20 A	SPARE	56
57	SPARE	20 A	1			0	0			1	20 A	SPARE	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
61	SPARE	20 A	1	0	0					1	20 A	SPARE	62
63	SPARE	20 A	1			0	0			1	20 A	SPARE	64
65	SPARE	20 A	1					0	0	1	20 A	SPARE	66
67	SPARE	20 A	1	0	0					1	20 A	SPARE	68
69	SPARE	20 A	1			0	0			1	20 A	SPARE	70
71	SPARE	20 A	1					0	0	1	20 A	SPARE	72
73	SPARE	20 A	1	0	1748					1	20 A	L.-CORRIDOR	74
75	SPARE	20 A	1			0	1680			1	20 A	L.-CORRIDOR	76
77	SPARE	20 A	1					0	1620	1	20 A	L.-ATRIUM/ENTRY	78
79	TRANSFORMER 'TC2L'	175 A	3	18600	1795					1	20 A	L.-WORKROOM, OFFICES, CLASSROOM	80
81	--	--	--			17379	1947			1	20 A	L.-CLASSROOMS	82
83	--	--	--					15055	1794	1	20 A	L.-CLASSROOMS, BATHROOMS	84
			Total Load:	42700 VA		38622 VA		36085 VA					
			Total Amps:	156 A		141 A		130 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	55790 VA	100.00%	55790 VA		
Receptacle	22320 VA	72.40%	16160 VA	**Total Conn. Load:**	117408 VA
Lighting	10584 VA	100.00%	10584 VA	**Total Est. Demand:**	111248 VA
Power	28714 VA	100.00%	28714 VA	**Total Conn.:**	141 A
				Total Est. Demand:	134 A

Notes:

1 2 3 4 5

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NO. E108
PROJ. NO. 020420.00

KEY PLAN

C1L	C1H
C2L	C2H

6/1/2022 8:43:03 AM BIM 360://020420.00_Byrnes HS - Phase 2/Elec_Byrnes HS_Phase 2_R21.rvt

Branch Panel: C1EL

Location: ELEC 1240
Supply From: TC1EL
Mounting: SURFACE
Enclosure: INDOOR
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10,000A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C1EL-1	R.-DATA 1239	20 A	1	360 VA	0 VA					1	20 A	SPARE	C1EL-2
C1EL-3	R.-DATA 1239	20 A	1			360 VA	0 VA			1	20 A	SPARE	C1EL-4
C1EL-5	R.-DATA 1239	20 A	1					360 VA	0 VA	1	20 A	SPARE	C1EL-6
C1EL-7	DSS-A2.01	30 A	2	1030...	0 VA					1	20 A	SPARE	C1EL-8
C1EL-9	--	--	--			1030...	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EL...
C1EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EL...
			Total Load:	1390 VA		1390 VA		360 VA					
			Total Amps:	13 A		13 A		3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load:	3139 VA
				Total Est. Demand:	3139 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

Notes:

Branch Panel: C1EH

Location: ELEC 1240
Supply From: EMDP
Mounting: SURFACE
Enclosure: INDOOR
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14,000A
Mains Type: MLO
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C1EH-1	L.-CORRIDOR	20 A	1	820 VA	0 VA					1	20 A	SPARE	C1EH-2
C1EH-3	L.-CLASSROOMS	20 A	1			610 VA	0 VA			1	20 A	SPARE	C1EH-4
C1EH-5	L.-ASSUMMED LOAD FOR MEDIA CENTER	20 A	1					800 VA	0 VA	1	20 A	SPARE	C1EH-6
C1EH-7	L.-CLASSROOMS	20 A	1	649 VA	0 VA					1	20 A	SPARE	C1EH-8
C1EH-9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C1EH...
C1EH...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C1EH...
C1EH...	TRANSFORMER 'TB1EL'	50 A	3	1390...	0 VA					1	20 A	SPARE	C1EH...
C1EH...	--	--	--			1390...	0 VA			1	20 A	SPARE	C1EH...
C1EH...	--	--	--					360 VA	0 VA	1	20 A	SPARE	C1EH...
			Total Load:	2859 VA		2000 VA		1160 VA					
			Total Amps:	11 A		8 A		4 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load:	6018 VA
Lighting	2879 VA	100.00%	2879 VA	Total Est. Demand:	6018 VA
				Total Conn.:	7 A
				Total Est. Demand:	7 A

Notes:

Branch Panel: C2EL

Location: ELEC 1221
Supply From: TC2EL
Mounting: SURFACE
Enclosure: INDOOR
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10,000A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
C2EL-1	R.-DATA 1220	20 A	1	360 VA	0 VA					1	20 A	SPARE	C2EL-2
C2EL-3	R.-DATA 1220	20 A	1			360 VA	0 VA			1	20 A	SPARE	C2EL-4
C2EL-5	R.-DATA 1220	20 A	1					360 VA	0 VA	1	20 A	SPARE	C2EL-6
C2EL-7	DSS-C2.01	30 A	2	1030...	0 VA					1	20 A	SPARE	C2EL-8
C2EL-9	--	--	--			1030...	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	C2EL...
C2EL...	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	C2EL...
			Total Load:	1390 VA		1390 VA		360 VA					
			Total Amps:	13 A		13 A		3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load:	3139 VA
				Total Est. Demand:	3139 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

Notes:

Branch Panel: C2EH

Location: ELEC 1221
Supply From: EMDP
Mounting: SURFACE
Enclosure: INDOOR
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 14,000A
Mains Type: MLO
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	L.-CORRIDOR	20 A	1	1196...	--					1	--	SPACE	2
3	L.-WORKROOM, CLASSROOMS	20 A	1			472 VA	--			1	--	SPACE	4
5	L.-CLASSROOMS, BATHROOMS	20 A	1					531 VA	--	1	--	SPACE	6
7	SPARE	20 A	1	0 VA	--					1	--	SPACE	8
9	SPARE	20 A	1			0 VA	--			1	--	SPACE	10
11	SPARE	20 A	1					0 VA	--	1	--	SPACE	12
13	SPARE	20 A	1	0 VA	--					1	--	SPACE	14
15	SPARE	20 A	1			0 VA	--			1	--	SPACE	16
17	SPARE	20 A	1					0 VA	--	1	--	SPACE	18
19	SPARE	20 A	1	0 VA	--					1	--	SPACE	20
21	SPARE	20 A	1			0 VA	--			1	--	SPACE	22
23	SPARE	20 A	1					0 VA	--	1	--	SPACE	24
25	SPARE	20 A	1	0 VA	--					1	--	SPACE	26
27	SPARE	20 A	1			0 VA	--			1	--	SPACE	28
29	SPARE	20 A	1					0 VA	--	1	--	SPACE	30
31	SPARE	20 A	1	0 VA	--					1	--	SPACE	32
33	SPARE	20 A	1			0 VA	--			1	--	SPACE	34
35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36
37	TRANSFORMER 'TC2EL'	50 A	3	1390...	--					1	--	SPACE	38
39	--	--	--			1390...	--			1	--	SPACE	40
41	--	--	--					360 VA	--	1	--	SPACE	42
			Total Load:	2586 VA		1862 VA		891 VA					
			Total Amps:	10 A		7 A		3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2059 VA	100.00%	2059 VA		
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load:	5338 VA
Lighting	2199 VA	100.00%	2199 VA	Total Est. Demand:	5338 VA
				Total Conn.:	6 A
				Total Est. Demand:	6 A

Notes:

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRIACL PANEL SCHEDULES

SHEET NO. E109

PROJ. NO. 020420.00

KEY PLAN

C1EL	C1EH
C2EL	C2EH

Branch Panel: S1

Location: PREP 1146A | **Supply From:** B1L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S1-1	R.-PREP/STORAGE (NOTE:1)	20 A	1	540 VA	0 VA					1	20 A	SPARE	S1-2
S1-3	R.-PREP (NOTE:1)	20 A	1			540 VA	0 VA			1	20 A	SPARE	S1-4
S1-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	0 VA	1	20 A	SPARE	S1-6
S1-7	DISHWASHER (NOTE:1)	20 A	1	1000...	0 VA					1	20 A	SPARE	S1-8
S1-9	FUME HOOD	20 A	1			500 VA	0 VA			1	20 A	SPARE	S1-10
S1-11	R.-LAB (NOTE:1)	20 A	1					1080...	0 VA	1	20 A	SPARE	S1-12
S1-13	R.-LAB (NOTE:1)	20 A	1	1440...	0 VA					1	20 A	SPARE	S1-14
S1-15	R.-LAB (NOTE:1)	20 A	1			1260...	0 VA			1	20 A	SPARE	S1-16
S1-17	R.-LAB (NOTE:1)	20 A	1					1080...	0 VA	1	20 A	SPARE	S1-18
S1-19	R.-LAB (NOTE:1)	20 A	1	720 VA	0 VA					1	20 A	SPARE	S1-20
S1-21	EF-A1.01	20 A	1			1176...	0 VA			1	20 A	SPARE	S1-22
S1-23	EF-A1.05	20 A	1					696 VA	0 VA	1	20 A	SPARE	S1-24
			Total Load:	3700 VA		3476 VA		3856 VA					
			Total Amps:	31 A		29 A		32 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1872 VA	100.00%	1872 VA		
Receptacle	6660 VA	100.00%	6660 VA	**Total Conn. Load:**	11032 VA
Power	2500 VA	100.00%	2500 VA	**Total Est. Demand:**	11032 VA
				Total Conn.:	31 A
				Total Est. Demand:	31 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

Branch Panel: S2

Location: PREP 1148A | **Supply From:** B1L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S2-1	R.-PREP (NOTE:1)	20 A	1	360 VA	1620...					1	20 A	R.-LAB (NOTE:1)	S2-2
S2-3	R.-PREP (NOTE:1)	20 A	1			540 VA	720 VA			1	20 A	R.-LAB (NOTE:1)	S2-4
S2-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1440...	1	20 A	R.-LAB (NOTE:1)	S2-6
S2-7	DISHWASHER (NOTE:1)	20 A	1	1000...	1080...					1	20 A	R.-LAB (NOTE:1)	S2-8
S2-9	FUME HOOD	20 A	1			500 VA	1176...			1	20 A	EF-A1.04	S2-10
S2-11	FUME HOOD	20 A	1					500 VA	1176...	1	20 A	EF-B1.01	S2-12
S2-13	R.-LAB (NOTE:1)	20 A	1	900 VA	696 VA					1	20 A	EF-A1.06	S2-14
S2-15	R.-LAB (NOTE:1)	20 A	1			1620...	696 VA			1	20 A	EF-B1.06	S2-16
S2-17	R.-LAB (NOTE:1)	20 A	1					720 VA	0 VA	1	20 A	SPARE	S2-18
S2-19	R.-LAB (NOTE:1)	20 A	1	1440...	0 VA					1	20 A	SPARE	S2-20
S2-21	R.-LAB (NOTE:1)	20 A	1			1080...	0 VA			1	20 A	SPARE	S2-22
S2-23	R.-LAB (NOTE:1)	20 A	1					900 VA	0 VA	1	20 A	SPARE	S2-24
			Total Load:	7096 VA		6332 VA		5736 VA					
			Total Amps:	60 A		54 A		48 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3744 VA	100.00%	3744 VA		
Receptacle	12420 VA	90.26%	11210 VA	**Total Conn. Load:**	19164 VA
Power	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	17954 VA
				Total Conn.:	53 A
				Total Est. Demand:	50 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

Branch Panel: S3

Location: PREP 1152A | **Supply From:** B1L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S3-1	R.-PREP (NOTE:1)	20 A	1	360 VA	1800...					1	20 A	R.-LAB (NOTE:1)	S3-2
S3-3	R.-PREP (NOTE:1)	20 A	1			540 VA	720 VA			1	20 A	R.-LAB (NOTE:1)	S3-4
S3-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1440...	1	20 A	R.-LAB (NOTE:1)	S3-6
S3-7	DISHWASHER (NOTE:1)	20 A	1	1000...	1080...					1	20 A	R.-LAB (NOTE:1)	S3-8
S3-9	FUME HOOD	20 A	1			500 VA	1176...			1	20 A	EF-B1.02	S3-10
S3-11	FUME HOOD	20 A	1					500 VA	1176...	1	20 A	EF-B1.03	S3-12
S3-13	R.-LAB (NOTE:1)	20 A	1	540 VA	696 VA					1	20 A	EF-B1.07	S3-14
S3-15	R.-LAB (NOTE:1)	20 A	1			1800...	696 VA			1	20 A	EF-B1.08	S3-16
S3-17	R.-LAB (NOTE:1)	20 A	1					720 VA	0 VA	1	20 A	SPARE	S3-18
S3-19	R.-LAB (NOTE:1)	20 A	1	1440...	0 VA					1	20 A	SPARE	S3-20
S3-21	R.-LAB (NOTE:1)	20 A	1			1080...	0 VA			1	20 A	SPARE	S3-22
S3-23	R.-LAB (NOTE:1)	20 A	1					540 VA	0 VA	1	20 A	SPARE	S3-24
			Total Load:	6916 VA		6512 VA		5376 VA					
			Total Amps:	59 A		56 A		45 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3744 VA	100.00%	3744 VA		
Receptacle	14060 VA	85.56%	12030 VA	**Total Conn. Load:**	18804 VA
Power	1000 VA	100.00%	1000 VA	**Total Est. Demand:**	16774 VA
				Total Conn.:	52 A
				Total Est. Demand:	47 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

Branch Panel: S4

Location: PREP 1149A | **Supply From:** B1L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S4-1	R.-PREP (NOTE:1)	20 A	1	360 VA	1440...					1	20 A	R.-LAB (NOTE:1)	S4-2
S4-3	R.-PREP (NOTE:1)	20 A	1			720 VA	1080...			1	20 A	R.-LAB (NOTE:1)	S4-4
S4-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1176...	1	20 A	EF-B1.05	S4-6
S4-7	DISHWASHER (NOTE:1)	20 A	1	1000...	1176...					1	20 A	EF-B1.04	S4-8
S4-9	R.-LAB (NOTE:1)	20 A	1			720 VA	0 VA			1	20 A	SPARE	S4-10
S4-11	R.-LAB (NOTE:1)	20 A	1					1260...	0 VA	1	20 A	SPARE	S4-12
S4-13	R.-LAB (NOTE:1)	20 A	1	1440...	0 VA					1	20 A	SPARE	S4-14
S4-15	R.-LAB (NOTE:1)	20 A	1			720 VA	0 VA			1	20 A	SPARE	S4-16
S4-17	R.-LAB (NOTE:1)	20 A	1					1080...	0 VA	1	20 A	SPARE	S4-18
S4-19	R.-LAB (NOTE:1)	20 A	1	1260...	0 VA					1	20 A	SPARE	S4-20
S4-21	R.-LAB (NOTE:1)	20 A	1			720 VA	0 VA			1	20 A	SPARE	S4-22
S4-23	R.-LAB (NOTE:1)	20 A	1					720 VA	0 VA	1	20 A	SPARE	S4-24
			Total Load:	6676 VA		3960 VA		5236 VA					
			Total Amps:	57 A		33 A		45 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2352 VA	100.00%	2352 VA		
Receptacle	11520 VA	93.40%	10760 VA	**Total Conn. Load:**	15872 VA
Power	2000 VA	100.00%	2000 VA	**Total Est. Demand:**	15112 VA
				Total Conn.:	44 A
				Total Est. Demand:	42 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

Branch Panel: S5

Location: PREP 1143A | **Supply From:** B1L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S5-1	R.-PREP (NOTE:1)	20 A	1	360 VA	720 VA					1	20 A	R.-LAB (NOTE:1)	S5-2
S5-3	R.-PREP (NOTE:1)	20 A	1			540 VA	720 VA			1	20 A	R.-LAB (NOTE:1)	S5-4
S5-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1440...	1	20 A	R.-LAB (NOTE:1)	S5-6
S5-7	DISHWASHER (NOTE:1)	20 A	1	1000...	1080...					1	20 A	R.-LAB (NOTE:1)	S5-8
S5-9	FUME HOOD	20 A	1			500 VA	1176...			1	20 A	EF-A1.02	S5-10
S5-11	FUME HOOD	20 A	1					500 VA	1176...	1	20 A	EF-A1.03	S5-12
S5-13	R.-LAB (NOTE:1)	20 A	1	1260...	696 VA					1	20 A	EF-A1.07	S5-14
S5-15	R.-LAB (NOTE:1)	20 A	1			720 VA	696 VA			1	20 A	EF-A1.08	S5-16
S5-17	R.-LAB (NOTE:1)	20 A	1					720 VA	0 VA	1	20 A	SPARE	S5-18
S5-19	R.-LAB (NOTE:1)	20 A	1	1440...	0 VA					1	20 A	SPARE	S5-20
S5-21	R.-LAB (NOTE:1)	20 A	1			1080...	0 VA			1	20 A	SPARE	S5-22
S5-23	R.-LAB (NOTE:1)	20 A	1					1260...	0 VA	1	20 A	SPARE	S5-24
			Total Load:	6556 VA		5432 VA		6096 VA					
			Total Amps:	55 A		45 A		52 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3744 VA	100.00%	3744 VA		
Receptacle	11340 VA	94.09%	10670 VA	**Total Conn. Load:**	18084 VA
Power	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	17414 VA
				Total Conn.:	50 A
				Total Est. Demand:	48 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

Branch Panel: S6

Location: PREP 1160A | **Supply From:** B2L | **Mounting:** FLUSH | **Enclosure:** INDOOR
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10,000A | **Mains Type:** MCB (NOTE:2) | **Mains Rating:** 100 A | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
S6-1	R.-PREP (NOTE:1)	20 A	1	540 VA	720 VA					1	20 A	R.-LAB (NOTE:1)	S6-2
S6-3	R.-PREP (NOTE:1)	20 A	1			540 VA	1080...			1	20 A	R.-LAB (NOTE:1)	S6-4
S6-5	REFRIGERATOR (NOTE:1)	20 A	1					1000...	1176...	1	20 A	EF-C1.06	S6-6
S6-7	DISHWASHER (NOTE:1)	20 A	1	1000...	1176...					1	20 A	EF-C1.07	S6-8
S6-9	R.-LAB (NOTE:1)	20 A	1			1260...	0 VA			1	20 A	SPARE	S6-10
S6-11	R.-LAB (NOTE:1)	20 A	1					720 VA	0 VA	1	20 A	SPARE	S6-12
S6-13	R.-LAB (NOTE:1)	20 A	1	720 VA	0 VA					1	20 A	SPARE	S6-14
S6-15	R.-LAB (NOTE:1)	20 A	1			900 VA	0 VA			1	20 A	SPARE	S6-16
S6-17	R.-LAB (NOTE:1)	20 A	1					1080...	0 VA	1	20 A	SPARE	S6-18
S6-19	R.-LAB (NOTE:1)	20 A	1	1260...	0 VA					1	20 A	SPARE	S6-20
S6-21	R.-LAB (NOTE:1)	20 A	1			720 VA	0 VA			1	20 A	SPARE	S6-22
S6-23	R.-LAB (NOTE:1)	20 A	1					1080...	0 VA	1	20 A	SPARE	S6-24
			Total Load:	5416 VA		4500 VA		5056 VA					
			Total Amps:	46 A		38 A		43 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2352 VA	100.00%	2352 VA		
Receptacle	10620 VA	97.08%	10310 VA	**Total Conn. Load:**	14972 VA
Power	2000 VA	100.00%	2000 VA	**Total Est. Demand:**	14662 VA
				Total Conn.:	42 A
				Total Est. Demand:	41 A

Notes:
1. GFCI TYPE CIRCUIT BREAKER.
2. SHUNT-TRIP TYPE MAIN BREAKER. CONNECT TO 'EPO' FOR AUTOMATIC SHUT-OFF.

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NO. E110
PROJ. NO. 020420.00

KEY PLAN

S1	S2
S2	S4
S5	S6

Switchboard: MSB

Location: MAIN ELEC PH 2 & 3 B014	**Volts:** 480/277 Wye	**A.I.C. Rating:** 100,000A
Supply From:	**Phases:** 3	**Mains Type:** MCB
Mounting: FREESTANDING	**Wires:** 4	**Mains Rating:** 4000 A
Enclosure: NEMA 1		**MCB Rating:** 4000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL 'AH'	3	400 A	400 A	197838 VA	
2	PANEL 'B1H'	3	400 A	400 A	207410 VA	
3	PANEL 'B2H'	3	400 A	400 A	165893 VA	
4	PANEL 'C1H'	3	400 A	400 A	178298 VA	
5	PANEL 'C2H'	3	400 A	400 A	117408 VA	
6	PANEL 'EMDP' VIA ATS100	3	200 A	100 A	46898 VA	
7	RERV-1	3	200 A	125 A	86424 VA	
8	RERV-2	3	200 A	110 A	64153 VA	
9	RERV-2	3	200 A	90 A	64153 VA	
10	ELEVATOR (NOTES:1&2)	3	200 A	175 A	102200 VA	
11	SPD	3	100 A	50 A	0 VA	
12	SPARE	3	200 A	200 A	0 VA	
13	SPARE	3	400 A	400 A	0 VA	
14	SPARE	3	400 A	400 A	0 VA	
15	SPARE	3	800 A	800 A	0 VA	
16	SPARE	3	800 A	800 A	0 VA	
				Total Conn. Load:	1230675 VA	
				Total Amps:	1480 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	687664 VA	100.00%	687664 VA		
Receptacle	217820 VA	52.30%	113910 VA	**Total Conn. Load:**	1230675 VA
Lighting	68062 VA	100.00%	68062 VA	**Total Est. Demand:**	1126765 VA
Power	257129 VA	100.00%	257129 VA	**Total Conn.:**	1480 A
				Total Est. Demand:	1355 A

Notes:
1. COORDINATE WITH ACTUAL ELEVATOR FOR EXACT POWER REQUIREMENTS PRIOR TO PERFORMING ANY WORK. ADJUST BREAKER SIZE AND WIRING AS REQUIRED AT NO ADDITIONAL COST.
2. PROVIDE SHUNT-TRIP BREAKER.

Branch Panel: EMDP

Location: MAIN ELEC PH 2 & 3 B014	**Volts:** 480/277 Wye	**A.I.C. Rating:** 64,000A
Supply From: ATS100	**Phases:** 3	**Mains Type:** MCB
Mounting: SURFACE	**Wires:** 4	**Mains Rating:** 100 A
Enclosure: INDOOR		**MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 'AEH'	50 A	3	3620...	--					1	--	SPACE	2
3	--	--	--			3980...	--			1	--	SPACE	4
5	--	--	--					3391...	--	1	--	SPACE	6
7	PANEL 'B1EH'	50 A	3	4050...	--					1	--	SPACE	8
9	--	--	--			4870...	--			1	--	SPACE	10
11	--	--	--					4230...	--	1	--	SPACE	12
13	PANEL 'B2EH'	50 A	3	3336...	--					1	--	SPACE	14
15	--	--	--			4226...	--			1	--	SPACE	16
17	--	--	--					3842...	--	1	--	SPACE	18
19	PANEL 'C1EH'	50 A	3	2859...	--					1	--	SPACE	20
21	--	--	--			2000...	--			1	--	SPACE	22
23	--	--	--					1160...	--	1	--	SPACE	24
25	PANEL 'C2EH'	50 A	3	2586...	--					1	--	SPACE	26
27	--	--	--			1862...	--			1	--	SPACE	28
29	--	--	--					891 VA	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPD	50 A	3	0 VA	--					1	--	SPACE	38
39	--	--	--			0 VA	--			1	--	SPACE	40
41	--	--	--					0 VA	--	1	--	SPACE	42
			Total Load:	16449 VA		16936 VA		13514 VA					
			Total Amps:	61 A		63 A		49 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10295 VA	100.00%	10295 VA		
Receptacle	5760 VA	100.00%	5760 VA	**Total Conn. Load:**	46898 VA
Lighting	10843 VA	100.00%	10843 VA	**Total Est. Demand:**	46898 VA
Power	20000 VA	100.00%	20000 VA	**Total Conn.:**	56 A
				Total Est. Demand:	56 A

Notes:

PANELBOARD: "BMH" (EXISTING) — VOLTAGE: 277/480V, 3-PH, 4W
MOUNTING: SURFACE — MAINS: MLO — MIN. AIC RATING: 100,000A
MANUFACTURER: SQUARE 'D' — TRIP: N/A — FRAME: 400A

	LOAD	DESCRIPTION	CKT.	TRIP	TRIP	CKT.	DESCRIPTION	LOAD	L1	L2	L3	
□	3490	WSHP B-01	1	20	20	2	WSHP B-08	3131	6621			□
	3490		3			4		3131		6621		
	3490		5			6		3131			6621	
□	3408	WSHP B-02 & B-03	7	20	90	8	P-4	14404	17812			■
	3408		9			10		14404		17812		
	3408		11			12		14404			17812	
□	1717	WSHP B-05	13	20	60	14	P-5	11084	12801			□
	1717		15			16		11084		12801		
	1717		17			18		11084			12801	
□	1994	WSHP B-06	19	20	20	20	P-6	2106	4100			□
□	1994	WSHP B-07	21	20		22		2106		4100		
□	3300	UH-1	23	20		24		2106			5406	
□	3000	UH-2	25	20	20	26	P-7	2106	5106			□
□	3300	UH-3	27	20		28		2106		5406		
□	1600	UH-4	29	20		30		2106			3706	
	1600		31		20	32	P-8	2106	3706			□
	1600		33			34		2106		3706		
□	7482	CT-1	35	40		36		2106			9588	
	7482		37		20	38	EF B-01	305	7787			□
	7482		39			40		305		7787		
			41			42		305			305	
		SECTION TWO (SUBFED)					SECTION TWO (SUBFED)					
□	4600	CT-1 BASIN HEATER	43	25	30	44	CT-2 BASIN HEATER	4667	9267			■
	4600		45			46		4667		9267		
	4600		47			48		4667			9267	
■	9418	CT-2	49	70	20	50	WSHP B-04	3490	12908			□
	9418		51			52		3490		12908		
	9418		53			54		3490			12908	
		SPACE	55		20	56	EF B-02	443	443			□
		SPACE	57			58		443		443		
		SPACE	59			60		443			443	
		SPACE	61		20	62	SPARE					
		SPACE	63		20	64	SPARE					
		SPACE	65		20	66	SPARE					
		SPACE	67		20	68	SPARE					
		SPACE	69		20	70	SPARE					
		SPACE	71		20	72	SPARE					
		SPACE	73			74						
		SPACE	75			76						
		SPACE	77			78						
		TVSS (SPD)	79			80						
			81			82						
			83			84						

PANEL LEGEND
- □ EXISTING BREAKER, EXISTING LOAD
- ■ NEW BREAKER, EXISTING LOAD

TOTAL L1	80551
TOTAL L2	80851
TOTAL L3	78857
TOTAL VA	240259

289 AMPS CONNECTED
@ 480V, 3PH

PANELBOARD: "BL" (EXISTING) — VOLTAGE: 120/208V, 3-PH, 4W
MOUNTING: SURFACE — MAINS: MCB — MIN. AIC RATING: 22,000A
MANUFACTURER: SQUARE 'D' — TRIP: 225A — FRAME: 225A

	LOAD	DESCRIPTION	CKT.	TRIP	TRIP	CKT.	DESCRIPTION	LOAD	L1	L2	L3	
□	360	R.-HVAC/STO	1	20	20	2	B-1	1440	1800			□
□	720	R.-BOILER ROOM	3	20		4		1440		2160		
□	900	R.-ELEC/FIRE/STO	5	20		6		1440			2340	
□	900	R.-MECH YARD	7	20	20	8	B-2	1440	2340			□
□	500	CHEMICAL TREATMENT PL	9	20		10		1440		1940		
□	1200	CT-1 WATER LEVELER	11	20		12		1440			2640	
■	1200	CT-2 WATER LEVELER	13	20	20	14	B-3	1440	2640			□
□	1500	CT-1 HEAT TRACE	15	20		16		1440		2940		
■	1500	CT-2 HEAT TRACE	17	20		18		1440			2940	
□	500	WH-1 CONTROLS	19	20	40	20	DSS-1	2700	3200			□
□	600	WH-1 REC.PMP (RP-1)	21	20		22		2700		3300		
□	500	GEN. BATTERY CHARGER	23	20	20	24	SPARE				500	
□	1500	GEN ENGINE HEATER	25	30	20	26	SPARE		1500			
	1500		27		20	28	SPARE			1500		
□	500	EXTERIOR LTG. CTRL.	29	20	20	30	SPARE				500	
□	1440	DH-1	31	20	20	32	SPARE		1440			
□	100	EF B-04	33	20	20	34	SPARE			100		
		SPARE	35	20	20	36	SPARE					
□	8880	PANEL 'BLP'	37	100	20	38	SPARE		8880			
	7520		39		20	40	SPARE			7520		
	8516		41		20	42	SPARE				8516	

PANEL LEGEND
- □ EXISTING BREAKER, EXISTING LOAD
- ■ NEW BREAKER, EXISTING LOAD

TOTAL L1	21800
TOTAL L2	19460
TOTAL L3	17436
TOTAL VA	58696

163 AMPS CONNECTED
@ 208V, 3PH

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

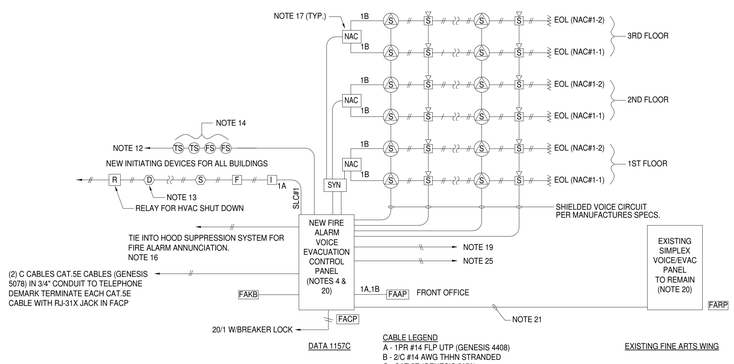
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NO. E111
PROJ. NO. 020420.00

KEY PLAN

MSB	EMDP
BMH	BL

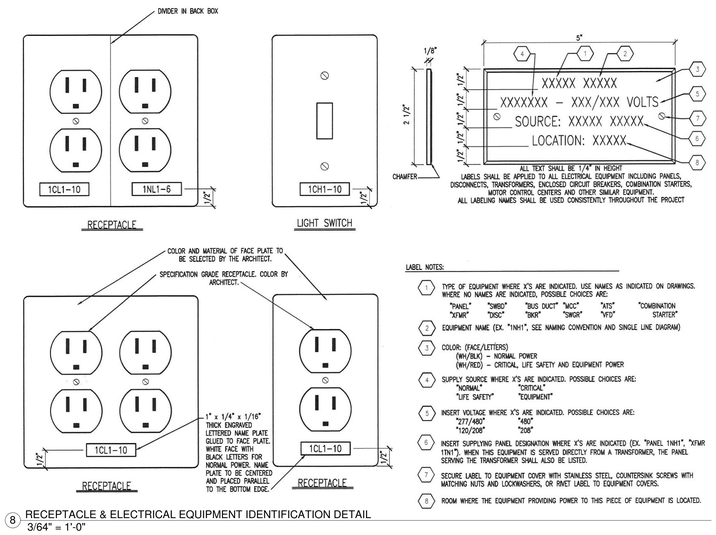


NOTES

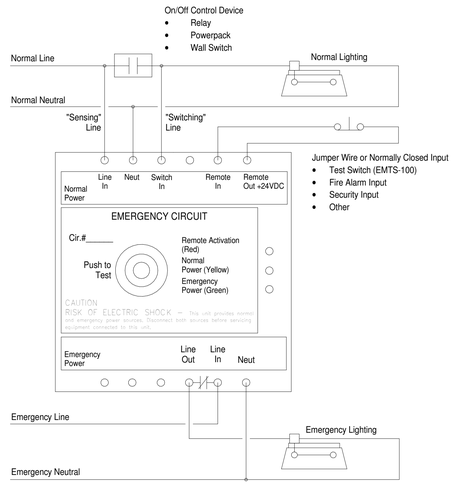
1. SEE PLANS FOR DEVICE LOCATIONS AND QUANTITIES. SEE WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE W/ FIRE ALARM SYSTEMS INTEGRATOR FOR ALL ASPECTS OF PROJECT.
3. THE FIRE ALARM SYSTEM SHALL BE A LOW VOLTAGE (24VDC) SYSTEM, FULLY ADDRESSABLE WITH 24 HOUR STANDBY FOLLOWED BY NOT LESS THAN 5 MINUTE ALARM BATTERY BACKUP SYSTEM SHALL COMPLY WITH NFPA 72, A.D.A., IBC, MUST MEET ALL APPLICABLE STATE AND LOCAL CODES.
4. THE FIRE ALARM SYSTEM SHALL BE U.L. AND F.M. APPROVED EQUIPMENT OF A SINGLE MANUFACTURER/MODEL: SIMPLEX. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE NEW VOICE EVACUATION SYSTEM IN THE NEW ADDITION . ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES (I.E. NAC PANELS, CONTROL PANELS, FIBER CONVERTERS, ETC.) AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE PHASING AND TIE-IN TO EXISTING MAIN FIRE ALARM PANEL (FARP) LOCATED IN FINE ARTS WING WITH SCHOOL DISTRICT REPRESENTATIVE.
5. ALL FIRE ALARM WIRING SHALL BE CONCEALED AND INSTALLED IN 3/4" EMT CONDUIT.
6. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3 FEET OF RETURN AND SUPPLY DUCT VENTS.
7. INITIATING DEVICES, NOTIFICATION APPLIANCES, AND SIGNALING LINE CIRCUITS SHALL BE CLASS B WIRING. INITIATING DEVICE CIRCUITS SHALL BE STYLE B, NOTIFICATION APPLIANCE CIRCUITS SHALL BE STYLE Y, AND SIGNALING LINE CIRCUITS SHALL BE STYLE 4.
8. AUDIBLE SIGNAL APPLIANCES (ASA) SHALL HAVE A SOUND LEVEL NOT LESS .75 dBA @ 10 FEET OR MORE THAN 120 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE DEVICE. ASA'S SHALL HAVE A SOUND LEVEL ATLEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OF 55 dBA (PLACE OF ASSEMBLY).
9. REMOTE ALARM INDICATORS SHALL BE INSTALLED DIRECTLY UNDER DUCT DETECTOR AND SHALL BE CLEARLY LABELED TO INDICATE BOTH THEIR FUNCTION AND AIR HANDLING UNIT(S) ASSOCIATED WITH DUCT SMOKE DETECTOR. PROVIDE A REMOTE ALARM INDICATOR FOR EACH DUCT SMOKE DETECTOR.
10. INSTALL ISOLATION MODULES ON SLC CIRCUIT TO KEEP AN ABNORMAL CONDITION FROM DISABLING THE SLC ON THE OTHER FLOORS.
11. LABEL EACH ADDRESSABLE DEVICE W/.5" P-TOUCH TAPE (LOOP#-DEVICE#) PROVIDE DETAILED FIRE ALARM DEVICE MAP OF BUILDING NEXT TO FACP & FAA.
12. COORDINATE WITH FIRE ALARM VENDOR TO PROVIDE VOLTAGE DROP CALCULATIONS TO INSURE THE PROPER WIRING IS PROVIDED FOR VOLTAGE DROP REQUIREMENTS FOR THE EXTERIOR TAMPER SWITCHES PRIOR TO BIDDING.
13. NOT SHOWN ON PLANS ARE EXISTING HVAC DUCT DETECTORS. FOR BIDDING PURPOSES ALLOW (35) DUCT DETECTORS AND 200'-0" OF 3/4" CONDUIT AND WIRING FOR EACH TIED BACK TO CONTROL CIRCUIT. NEW CONSTRUCTION DUCT DETECTORS INDICATED ON DUCT SMOKE DETECTOR SCHEDULE.
14. PROVIDE ALL NECESSARY TAMPER AND FLOW SWITCHES AT ALL BACK FLOW PITS, PIV'S, AND RISERS. REFERENCE CIVIL PLANS & FIRE PROTECTION DRAWINGS FOR LOCATIONS.
15. PROVIDE A VOICE/ALARM COMMUNICATIONS SYSTEM THAT COMPLIES WITH IBC 907.2.1.1 AND NFPA 72.
16. PROVIDE MONITORING MODULES AT HOOD SUPPRESSION SYSTEM(S) FOR PROPER NOTIFICATION UPON ACTUATION.
17. PROVIDE NAC PANEL(S) W/ DEDICATED 120V CIRCUIT FED FROM LOCAL EMERGENCY PANEL. PROVIDE LOCK-OUT ON BREAKER.
18. DEVICES LOCATED IN EXTERIOR AREAS SHALL BE WEATHER-PROOF.
19. FURNISH AND INSTALL ALL CONTROL WIRING IN 3/4" CONDUIT TIED TO ELEVATORS.
20. FURNISH AND INSTALL NETWORK COMMUNICATION MODULE AS REQUIRED FOR FIBER CONNECTION BACK TO MAIN CONTROL PANEL.
21. FURNISH AND INSTALL PLENUM RATED 62.5 MICRON/125MM, 6 STRAND MULTIMODE FIBER WITH SC CONNECTORS ROUTED IN 1 1/4" CONDUIT (UNO). PROVIDE ALL TERMINATIONS BETWEEN 'FACP' AND ALL 'FARP'.
22. PROVIDE ALL NECESSARY WIRING AS REQUIRED TO DOOR ELECTRIC LATCHES FOR DEACTIVATION OF DOOR LOCKS UPON FIRE ALARM INITIATION.
23. IN ADDITION TO THE FIRE ALARM DEVICES SHOWN ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING FIRE ALARM DEVICES AT THE DISCRETION OF THE ARCHITECT/ENGINEER, THE OWNER, AND/OR THE LOCAL BUILDING OFFICIAL IN THE FOLLOWING QUANTITIES. TURN OVER TO OWNER IF NOT USED:

    10-SPEAKER/STROBE DEVICES 5-HEAT DETECTORS
    3-DUCT DETECTORS
    10-SMOKE DETECTORS 5-PULL STATIONS

1 FIRE ALARM RISER DIAGRAM
12" = 1'-0"



8 RECEPTACLE & ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL
3/64" = 1'-0"



3 EMERGENCY BYPASS RELAY (EBR) DETAIL
12" = 1'-0"

DUCT SMOKE DETECTOR SCHEDULE

AHU TAG	LOCATION (NOTE 1)	SUPPLY DUCT SMOKE DETECTOR REQUIRED (NOTE 2)	SUPPLY DUCT C.F.M. (NOTE 1)	RETURN DUCT SMOKE DETECTOR REQUIRED (NOTE 3)	CONTROL CIRCUIT (NOTE 8)
RERV-1	AS SHOWN ON DRAWING	NOT REQUIRED	-	REQUIRED	LOCAL
RERV-2	AS SHOWN ON DRAWING	NOT REQUIRED	-	REQUIRED	LOCAL
RERV-3	AS SHOWN ON DRAWING	NOT REQUIRED	-	REQUIRED	LOCAL

DUCT SMOKE DETECTOR SCHEDULE NOTES:

1. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT UNIT LOCATIONS AND SUPPLY AND RETURN C.F.M.
2. SUPPLY AIR SYSTEMS: PROVIDE A SUPPLY DUCT SMOKE DETECTOR, WHERE INDICATED AS 'REQUIRED', DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS FOR SUPPLY DUCTS EXCEEDING 2,000 C.F.M.
3. RETURN AIR SYSTEMS: PROVIDE A RETURN DUCT SMOKE DETECTOR, WHERE INDICATED AS 'REQUIRED', FOR RETURN DUCTS EXCEEDING 2,000 C.F.M.; AT EVERY RETURN AIR OPENING WITHIN THE SMOKE COMPARTMENT, WHERE THE AIR LEAVES EACH SMOKE COMPARTMENT OR IN THE DUCT SYSTEM BEFORE THE AIRS ENTERS THE RETURN AIR SYSTEM COMMON TO MORE THAN ON SMOKE COMPARTMENT. WHERE DUCT SIZES ARE WIDER THAN 36 INCHES, PROVIDE TWO OR MORE DUCT SMOKE DETECTORS AS REQUIRED BY NFPA 72.
4. DETECTORS SHALL BE ACCESSIBLE FOR CLEANING AND SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ACCESS DOORS OR PANELS SHALL EB PROVIDED IN ACCORANDCE WITH NFPA 90A.
5. THE LOCATION OF ALL DETECTORS IN AIR DUCT SYSTEMS SHALL BE PERMANENTLY AND CLEARLY IDENTIFIED AND RECORDED.
6. ALL PENETRATIONS OF AIR DUCTS IN THE VICINITY OF DUCT DETECTORS INSTALLED ON OR IN AIR DUCTS SHALL BE SEALED TO PREVENT ENTRANCE OF OUTSIDE AIR AND POSSIBLE DILLUTION OR REDIRECTION OF SMOKE WITHIN THE DUCT.
7. WHERE IN-DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS, MORE THAN 10 FEET ABOVE FINISHED FLOOR, OR IN ARRANGEMENTS WHERE THE DETECTOR'S ALARM INDICATION IS NOT READILY VISIBLE TO RESPONDING PERSONNEL, THE DETECTOR SHALL BE PROVIDED WITH REMOTE ALARM INDICATORS. REMOTE ALARM INDICATORS SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND SHALL BE CLEARLY LABELED TO INDICATE BOTH THEIR FUNCTION AND AIR HANDLING UNIT(S) ASSOCIATED WITH EACH DETECTOR.
8. PROVIDE 120V CONTROL POWER TO DUCT DETECTORS VIA LOCAL UNSWITCHED EMERGENCY GENERATOR 120V CIRCUIT.

2 FIRE ALARM DUCT DETECTOR SCHEDULE
12" = 1'-0"

SMOKE DETECTOR REQUIREMENTS FOR DOOR RELEASE SERVICE

DEPTH "A" OF WALL SECTION ABOVE DOOR	CEILING MOUNTED SMOKE DETECTOR LOCATION	DISTANCE "B" AWAY FROM WALL SECTION ABOVE DOOR	GRAPHICAL REPRESENTATION
0" - 24" ON BOTH SIDES	PROVIDE ONE ON EITHER SIDE. MOUNT CENTERLINE OF SINGLE OR DOULBE DOOR.	MAXIMUM OF 5 FEET AND MININMUM OF "A" BUT NOT LESS THAN 12"	CEILIN, CEILING, CEILING MOUNTED SMOKE DETECTOR, A, G, B, DOOR FRAME
OVER 24" ON ONE SIDE	PROVIDE ONE ON EITHER SIDE. MOUNT CENTERLINE OF SINGLE OR DOULBE DOOR.	MAXIMUM OF 5 FEET AND MININMUM OF "C".	CEILIN, CEILING, CEILING MOUNTED SMOKE DETECTOR, A, G, C, B, DOOR FRAME
OVER 24" ON BOTH SIDES	PROVIDE ONE ON EACH SIDE, MOUNT CENTERLINE OF SINGLE OR DOULBE DOOR.	MAXIMUM OF 5 FEET AND MININMUM OF "A"	CEILING MOUNTED SMOKE DETECTOR, CEILING, A, B, B, CEILING MOUNTED SMOKE DETECTOR, DOOR FRAME

SMOKE DETECTOR REQUIREMENTS FOR DOOR RELEASE SERVICE NOTES:

1. WHERE DOOR RELEASE SERVICE DEVICES ARE INDICATED ON PLANS, CEILING MOUNTED DETECTORS SHALL BE PROVIDED. QUANTITY AND LOCATION OF SMOKE DETECTORS SHALL BE AS DETERMINED BY THE "SMOKE DETECTOR REQUIREMENTS FOR DOOR RELEASE SERVICE," AND WITH ARCHITECTURAL WALL SECTIONS. COORDINATE WITH ARCHITECTURAL WALL SECTIONS, LIGHTS FIXTURES, MECHANICAL DUCT SUPPLY AND RETURNS, FIRE SUPPRESSION SYSTEMS, AND OTHER CEILING RELATED ITEMS.
2. WHERE THERE ARE MULTIPLE DOORWAYS, ADDITIONAL CEILING MOUNTED SMOKE DETECTORS SHALL BE REQUIRED AS FOLLOWS:
   A. WHERE THE SEPARATION BETWEEN DOORWAYS EXCEEDS 24 INCHES, EACH DOORWAY SHALL BE TREATED SEPARATELY.
   B. WHERE THE SEPARATION BETWEEN DOORWAYS IS 24 INCHES OR LESS, A SMOKE DETECTOR SHALL BE LOCATED ON THE CENTERLINE OF THE SEPARATION.
   C. EACH GROUP OF THREE DOORWAY OPENINGS SHALL BE TREATED SEPARATELY.
   D. EACH GROUP OF DOORWAY OPENINGS THAT EXCEEDS 20 FEET IN WIDTH SHALL BE TREATED SEPARATELY.
3. UPON ACTUATION OF ONE DOOR HOLDER DEVICE AT A STAIRWELL, THE ASSOCIATED DOOR HOLDERS ON THE ABOVE AND BELOW FLOORS SHALL ALSO RELEASE THEDOORS OF THE SHARED STAIRWELL.

4 FIRE ALARM DOOR HOLD OPEN SMOKE DETECTOR REQUIREMENTS
12" = 1'-0"

ENGINE-GENERATOR SET SCHEDULE

DESIGNATION	VOLTAGE	PHASE	WIRE	RATINGS					STARTING KVA/ %MAX INSTANTANEOUS VOLTAGE DIP	REMARKS
				KW	PF	KVA	DUTY	°C RISE		
EG-1	480Y277	3	4	80	0.8	100	STANDBY	130	-	CLASS H INSULATION; 2/3 PITCH OR 4/5 PITCH WINDINGS

ENGINE-GENERATOR SET NOTES:

1. ACCEPTABLE MANUFACTURERS: AS INDICTED IN SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE GENERATOR WITH WEATHERPROOF ENCLOSURE.
3. PROVIDE GENERATOR WITH DUAL OUTPUT BREAKERS.

AUTOMATIC TRANSFER SWITCH (ATS) SCHEDULE

DESIGNATION	CONT AMPERE RATING	POLE QUANTITY	VOLTAGE RATING	WITHSTAND/CLOSING RATING (AMPS RMS SYMMETRICAL @ 480VAC)		ENCLOSURE	FEATURES/REMARKS
				WITH CLASS J, RK1, OR L FUSES	WITH CIRCUIT BREAKERS		
ATS100	100	3	480	200,000	65,000	NEMA 1	AAPC, GEXT, GPPR, IPHM, NPPR, OVLN, PMRC

ATS SCHEDULE NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE RATINGS, TYPES, SETTINGS, AND MANUFACTURERS/MODELS OF FUSES AND CIRCUIT BREAKERS THAT PROTECT ATS'S TO COMPLY WITH UL-1008 AND ATS MANUFACTURER'S INSTRUCTIONS.
2. ACCEPTABLE ATS MANUFACTURERS: ASCO, KOHLER, CUMMINS/ONAN AND ZENITH.
3. FEATURE/REMARK OPTION CODES ARE AS FOLLOWS:
   AAPC - AUXILIARY AUTOMATIC TRANSFER SWITCH POSITION CONTACTS: 2-SPDT
   ABPC - AUXILIARY BYPASS - ISOLATION SWITCH POSITION CONTACTS: 2-SPDT
   BEFORE TRANSFER, AND RESETTING 20 SECONDS AFTER TRANSFER.
   BPIS - BYPASS-ISOLATION SWITCH TYPE
   CTTS - CLOSED TRANSITION TRANSFER SWITCH TYPE
   DOOM - DIGITAL COMMUNICATIONS INTERFACE
   GEXT - GENERATOR EXERCISING TIMER; LOAD/NO-LOAD SELECTABLE

FEATURE/REMARK OPTION CODES ARE AS FOLLOWS(CONTINUED):
GPPR - AUXILIARY RELAY CONTACTS TO INDICATE PRESENCE OF GENERATOR POWER AT ATS TERMINALS: 2-SPDT
HTRT - STRIP HEATER WITH THERMOSTAT; CONNECT TO LOAD TERMINALS WITH TRANSFORMER IF REQUIRED.
IPHM - IN-PHASE MONITOR CONTROL
LSCO - LOAD-SHEDDING CONTROL CONTACTS: 1-SPDT
NPPR - AUXILIARY RELAY CONTACTS TO INDICATE PRESENCE OF NORMAL POWER AT ATS TERMINALS: 2-SPDT
OVLN - OVERLAPPING NEUTRAL TRANSFER CONTACTS-INCLUDED IN POLE QUANTITY INDICATED
PMRC - POWER MONITOR RELAY CONTACTS
SLDC - SELECTIVE LOAD DISCONNECT CONTROL CONTACTS: 2-SPDT, OPERATING 20 SECONDS
SOLN - FULLY RATED SOLID NEUTRAL
TTMP - TIMED TRANSFER MIDPOINT POSITION

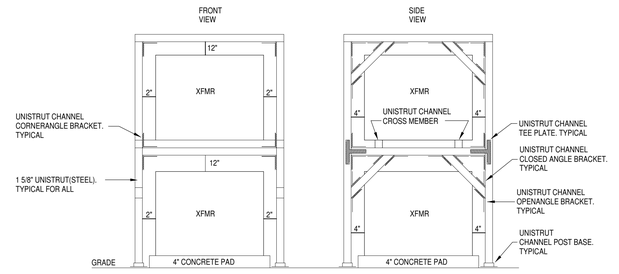
5 GENERATOR AND ATS
12" = 1'-0"

TAG	KVA RATING	PHASE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	FREQ (HZ)	K RATING	SPECIFICATION TYPE	GROUNDING ELECTRODE CONDUCTOR	MOUNTING	NOMINAL %Z	MAX SOUND LEVEL (DB)	TEMP RISE °C	REMARKS
TY15	15	3	480Δ	208Y120	60	-	GENERAL PURPOSE	#8 IN 1"C	FLOOR,UNO	3.0-5.5	45	NOTE 1	
TY30	30	3	480Δ	208Y120	60	-	GENERAL PURPOSE	#8 IN 1"C	FLOOR,UNO	3.0-5.5	45	NOTE 1	
TY45	45	3	480Δ	208Y120	60	-	GENERAL PURPOSE	#4 IN 1"C	FLOOR,UNO	3.0-5.5	45	NOTE 1	
TY75	75	3	480Δ	208Y120	60	-	GENERAL PURPOSE	#2 IN 1"C	FLOOR,UNO	3.0-5.5	50	NOTE 1	
TY112	112.5	3	480Δ	208Y120	60	-	GENERAL PURPOSE	#1/0 IN 1"C	FLOOR,UNO	3.0-5.5	50	NOTE 1	

TRANSFORMER NOTES:

1. TRANSFORMER WITH A 60% OR HIGHER ESTIMATED DEMAND LOAD SHALL BE 80 DEGREE RISE ABOVE 40 DEGREE C MAXIMUM AMBIENT TEMPERATURE. TRANSFORMERS WITH ESTIMATED DEMAND LOADS LESS THAN 60% OF CAPACITY SHALL BE RATED NEMA TP-1 CLASS 1 EFFICIENCY WITH A 150 DEGREE C RISE ABOVE 40 DEGREE C MAXIMUM AMBIENT TEMPERATURE.

6 TRANSFORMER SCHEDULE
12" = 1'-0"



CONTRACTOR SHALL PROVIDE A FABRICATION SHOP DRAWING TO THE A/E PRIOR TO PURCHASE, FABRICATION, AND INSTALLATION FOR REVIEW AND COMMENT. UPON APPROVAL W/O EXCEPTION BY A/E, THE CONTRACTOR MAY PROCEED WITH THE PURCHASE, FABRICATION, AND INSTALLATION TRANSFORMER MOUNTING ASSEMBLY.

BOLT,WASHER(S),NUT ASSEMBLY FOR ALL BRACKETS SHALL BE AS RECOMMENDED BY MANUFACTURER.

7 TRANSFORMER MOUNTING ASSEMBLY DETAIL
12" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

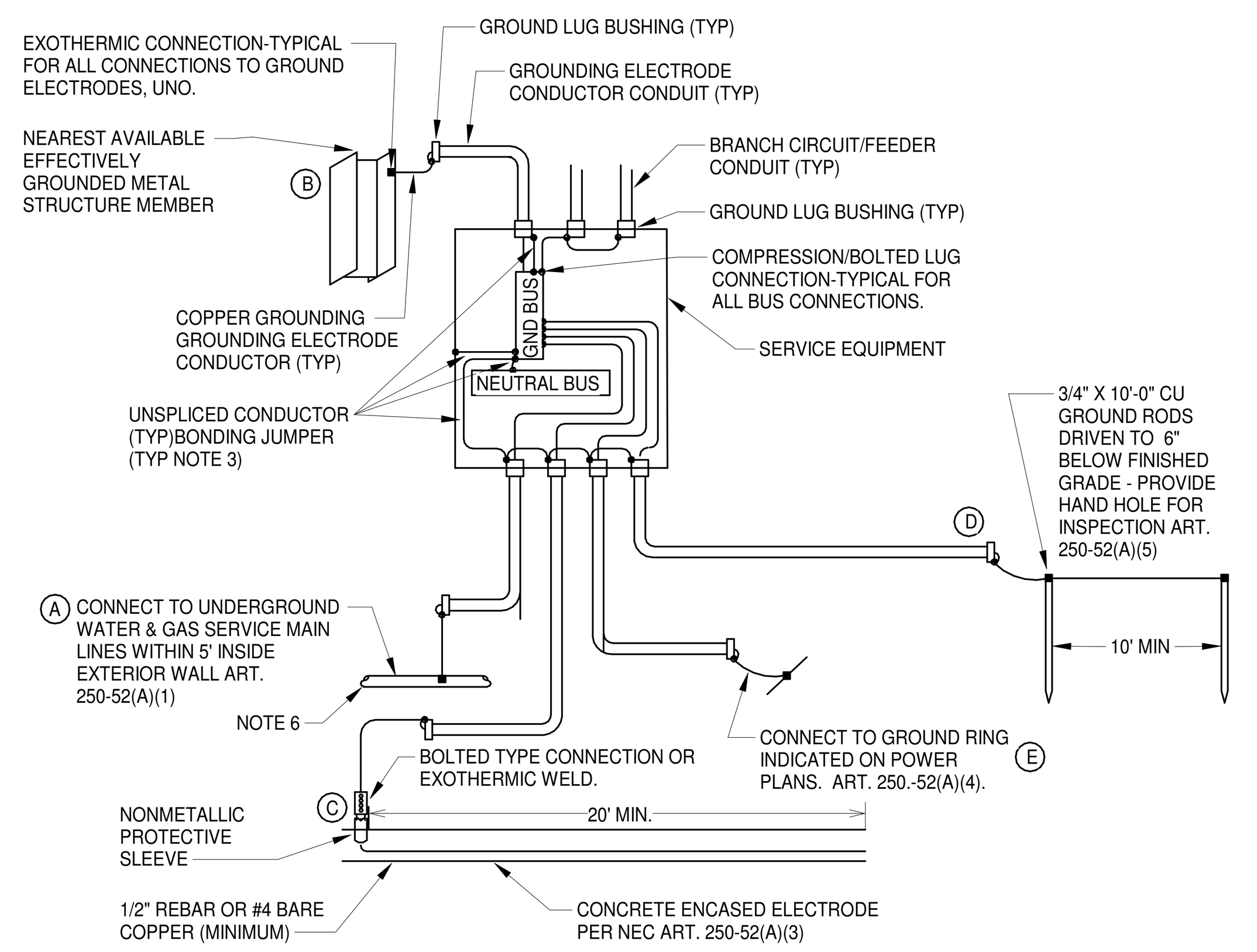
NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NO. E112
PROJ. NO. 020420.00

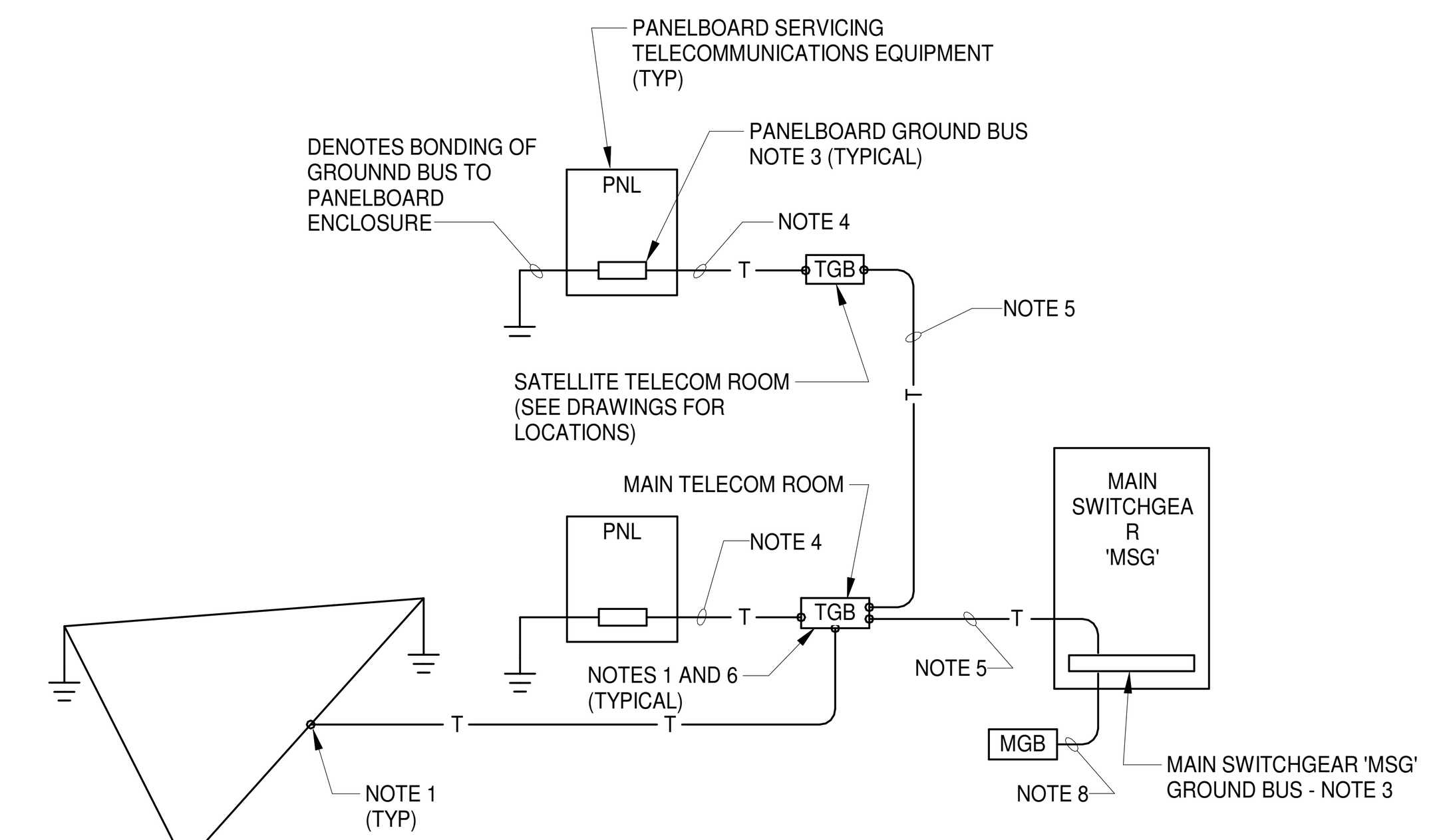


SERVICE GROUNDING SCHEDULE				
EQUIPMENT DESIGNATION	GROUNDING ELECTRODE/ JUMPER CONDUCTOR	CON-DUIT SIZE	APPLICABLE GROUNDING ELECTRODE CONNECTIONS	REMARKS
MSB	#3/0	1"	(A) (B) (C) AND (D)	SERVICE EQUIPMENT
EG-1	#3/0	1"	(A) (B) (C) AND (D)	SERVICE EQUIPMENT

NOTES:

1. THIS DETAIL APPLIES TO ALL EQUIPMENT INDICATED ON THE SERVICE GROUNDING SCHEDULE INDICATED.
2. SEE GROUNDING ELECTRODE CONDUCTOR SCHEDULE ABOVE FOR: EQUIPMENT DESIGNATIONS (PANELBOARDS, SWITCHBOARDS, ETC), CONDUCTOR SIZES, RELATED CONDUIT SIZES AND APPLICABLE GROUNDING ELECTRODE CONNECTIONS (A) (B) (C) (D) (E)
3. BONDING JUMPERS INDICATED SHALL BE SIZED IAW NEC, AND NO LESS THAN GROUND AND GROUNDING ELECTRODE CONDUCTORS INDICATED FOR EQUIPMENT, OR PROVIDE BUS LINK ACCESSORY BY EQUIPMENT MANUFACTURER FOR NEUTRAL/GROUND CONNECTION.
4. PHASE, NEUTRAL, AND ISOLATED GROUND CONDUCTORS FOR LOADS SERVED BY EQUIPMENT INDICATED ARE NOT SHOWN FOR CLARITY.
5. WORK INDICATED ON THIS DETAIL IS IN ADDITION TO GROUNDING WORK INDICATED ON OTHER DRAWINGS.
6. PROVIDE BONDING JUMPER ACROSS METERS AND NON-CONDUCTIVE SECTIONS OF ALL METALLIC PIPING SYSTEMS. CONNECT ALL METALLIC PIPING SYSTEMS TO SERVICE EQUIPMENT ENCLOSURE WITH BONDING JUMPER.
7. GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER, AND CONTINUOUS WITH NO SPLICES, UNLESS NOTED OTHERWISE. CONNECTIONS TO GROUNDING ELECTRODES SHALL BE EXOTHERMIC TYPE, UNLESS NOTED OTHERWISE.

1 TYPICAL SERVICE SERVICE GROUNDING DETAIL
12" = 1'-0"



NOTES:

1. CONNECTIONS TO TELECOMMUNICATIONS GROUND BUSES SHALL BE EXOTHERMIC TYPE.

2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. CONNECTIONS TO EQUIPMENT GROUND BUS SHALL BE:
   A. BUS MECHANICAL COMPRESSION LUG FOR PANELBOARD.
   B. COMPRESSION CRIMP LUG WITH BOLTED CONNECTION FOR SWITCHBOARDS.

4. #4 INSULATED GROUND IN 3/4" CONDUIT.

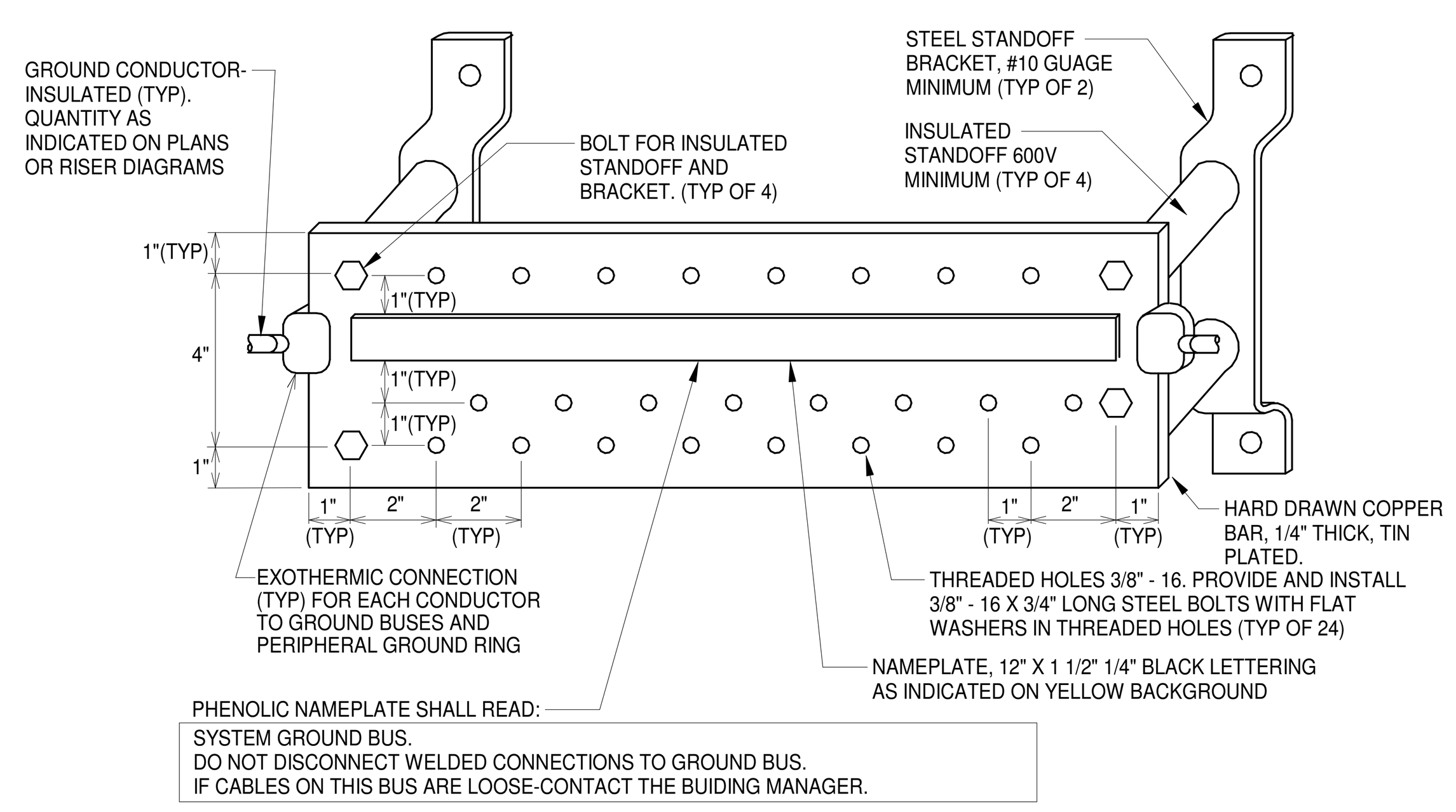
5. #1/0 INSULATED GROUND IN 1" CONDUIT.

6. SEE E4.0 SERIES PLANS FOR LOCATION. COORDINATE LOCATION WITH OTHER WORK.

7. ALL CONDUIT TYPES SHALL BE AS INDICATED ON WIRING METHODS SCHEDULE [SHEET E1.1].

8. SEE GROUNDING DETAIL ON E6.11 FOR SIZE.

2 TELECOMMUNICATIONS SYSTEM GROUNDING RISER
12" = 1'-0"



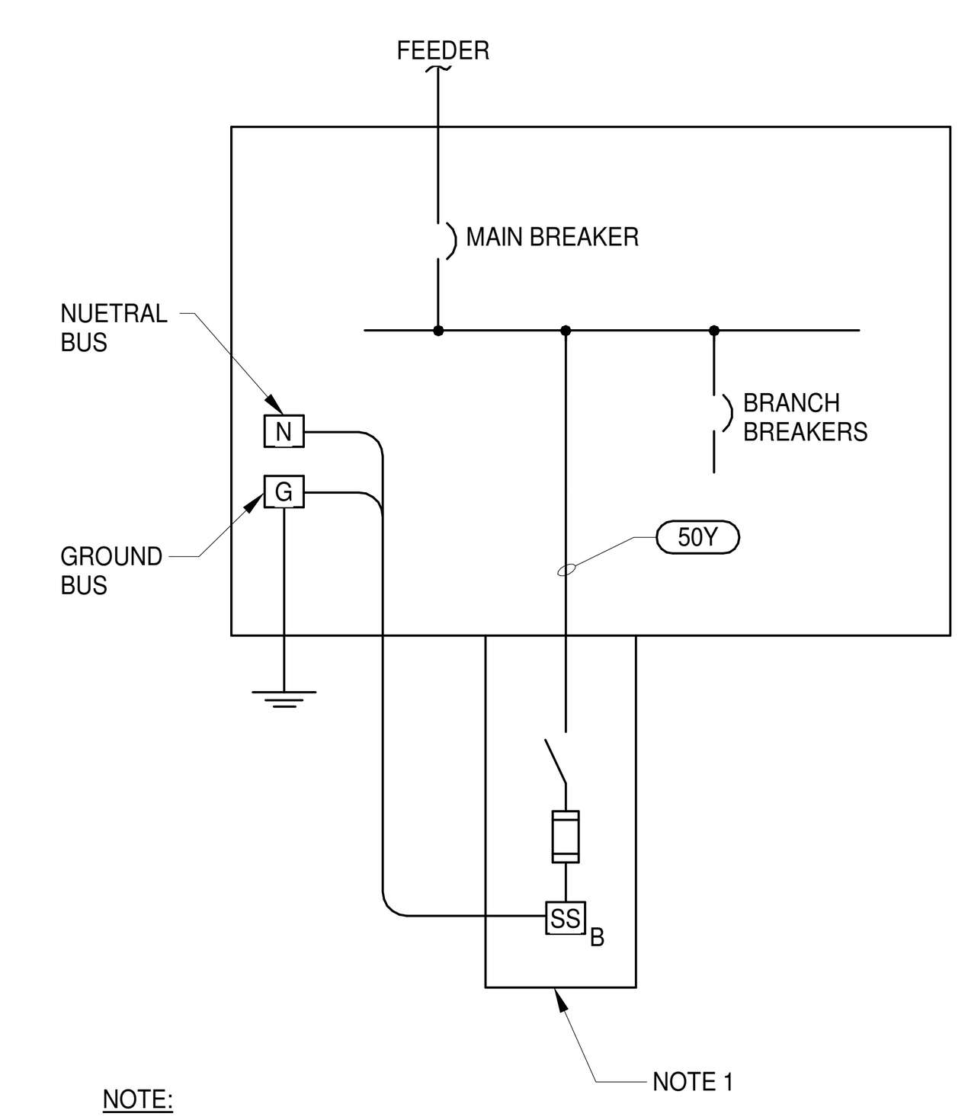
3 TELECOM GROUND BUS DETAIL FOR 'MGB' AND 'TGB'
12" = 1'-0"

SURGE PROTECTION SUPPRESSOR (SPD) SCHEDULE					
TYPE	NOMINAL VOLTAGE	MINIMUM SURGE CURRENT RATING (AMPS/PHASE)	MAXIMUM UL 1449 CLAMPING CATEGORY (V)	MAXIMUM IEEE C62.45 CLAMPING VOLTAGE (V)	REMARKS
A	208Y120	40,000	400	500	SEPARATE ENCLOSURE W/FIELD WIRING
B	208Y120	75,000	400	500	SEPARATE ENCLOSURE W/FIELD WIRING
C	208Y120	140,000	400	500	SEPARATE ENCLOSURE W/FIELD WIRING
D	480Y277	40,000	800	1000	SEPARATE ENCLOSURE W/FIELD WIRING
E	480Y277	75,000	800	1000	SEPARATE ENCLOSURE W/FIELD WIRING
F	480Y277	140,000	800	1000	SEPARATE ENCLOSURE W/FIELD WIRING
G	480△	40,000	1500	1500	SEPARATE ENCLOSURE W/FIELD WIRING
H	480△	75,000	1500	1500	SEPARATE ENCLOSURE W/FIELD WIRING
I	480△	140,000	1500	1500	SEPARATE ENCLOSURE W/FIELD WIRING

SPD SCHEDULE NOTES/SPECIFICATIONS:

1. UL 1449 AND SURGE CURRENT RATINGS ARE SINGLE PULSE, AND BASED ON IEEE C62.41 CATEGORY B WAVEFORM AT 6KV (1.2/50 MICRO-SECOND) AND 0.5KA (8/20 MICRO-SECOND) USED FOR UL 1449 LISTING.
2. IEEE C62.45 CLAMPING VOLTAGE RATINGS ARE LINE-NEUTRAL, NEUTRAL-GROUND, AND LINE-GROUND, BASED ON IEEE C62.41 CATEGORY C3 WAVEFORM AT 20KV (1.2/50 MICRO-SECOND) AND 10KA (8/20 MICRO-SECOND).
3. SURGE CURRENT DIVERSION PATHS: L-N, L-G, & N-G FOR WYE AND HIGH-LEG DELTA SYSTEMS; L-L & L-G IN DELTA SYSTEMS.
4. PROTECTION: EACH MODE SHALL HAVE USER SERVICEABLE 200 KAIC SURGE RATED FUSE WITH A THERMAL CUTOUT DEVICE. PROVIDE DISCONNECT SWITCH IF UNIT IS NOT PROTECTED BY A CIRCUIT BREAKER IN PANELBOARD/SWITCHBOARD.
5. MONITORING: EACH PHASE SHALL HAVE GREEN/RED SOLID STATE CONDITION INDICATOR LIGHT. PROVIDE AUDIBLE ALARM WITH SILENCE SWITCH.
6. DESIGN: METAL OXIDE VARISTOR SURGE MODULES WITH MAXIMUM CONTINUOUS OPERATING VOLTAGE OF 115% OF NOMINAL, AND EMI/RFI NOISE FILTER PROVIDING 34dB REDUCTION AT 100KHZ USING MIL-STD-220A TEST METHOD. 5 YEAR FULL PARTS AND LABOR WARRANTY FROM DATE OF ACCEPTANCE. INTEGRAL OR EXTERNAL DESIGN AS INDICATED IN SCHEDULE. ACCEPTABLE MANUFACTURERS: GE, CURRENT TECHNOLOGIES, OR INNOVATING TECHNOLOGIES. NO SUBSTITUTIONS. NO ALTERNATIVES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. LISTING: UL 1449 SECOND EDITION FOR CLAMPING CATEGORY INDICATED. COMPLY WITH NEMA LS-1.
8. TVSS UNITS SHALL BE CLOSE COUPLED TO PANELS WITH A MAXIMUM NOT TO EXCEED CONDUCTOR LENGTH OF 3'-0".

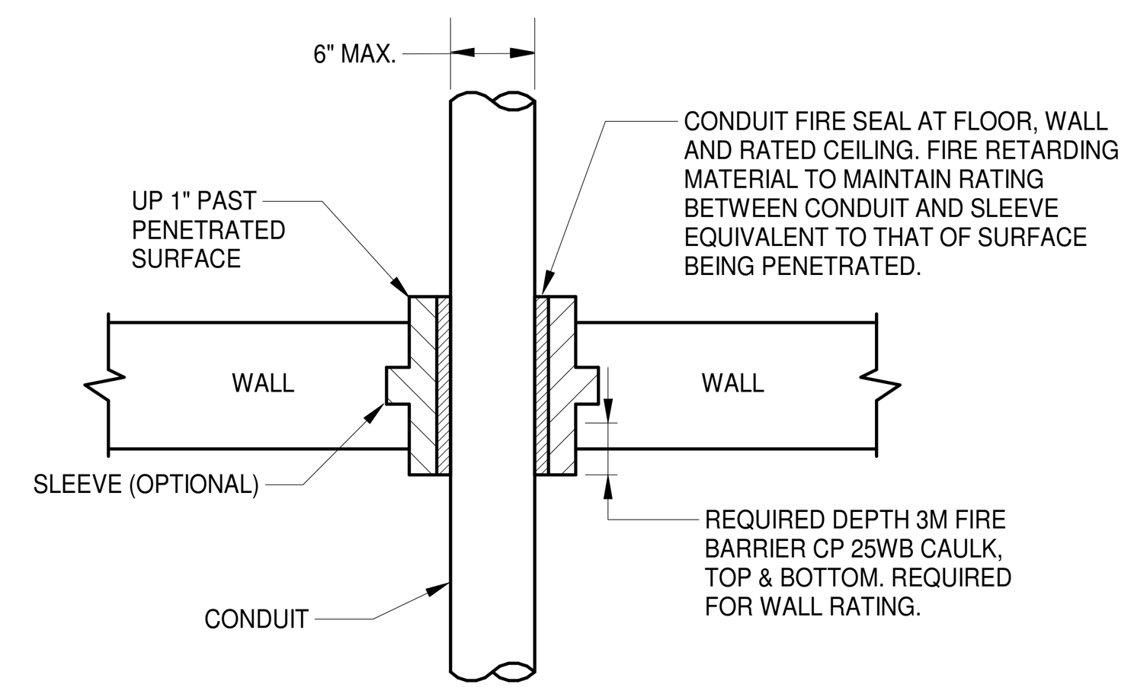
4 SURGE PROTECTION SUPRESSOR SCHEDULE
12" = 1'-0"



NOTE:

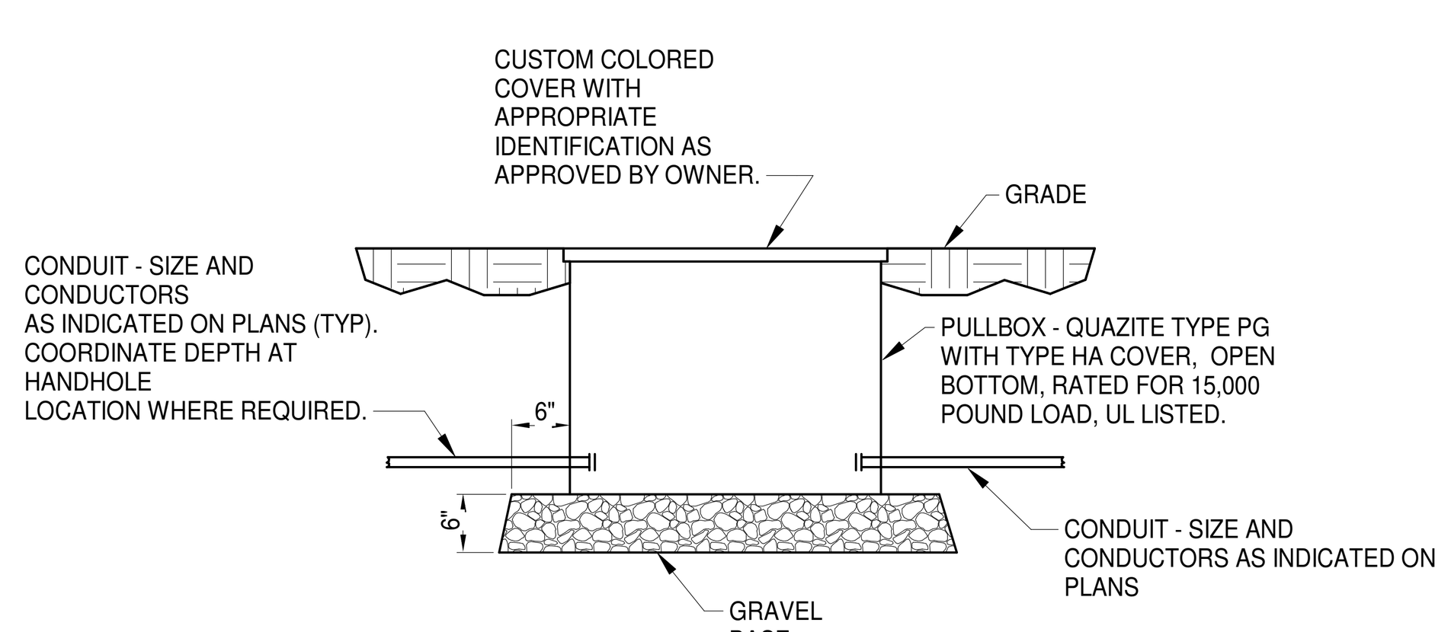
1. TVSS MUST BE MOUNTED ADJACENT TO EQUIPMENT PROTECTED TO MINIMIZE FEEDER LENGTH.

5 TVSS GROUNDING - SEPERATE ENCLOSURE
12" = 1'-0"

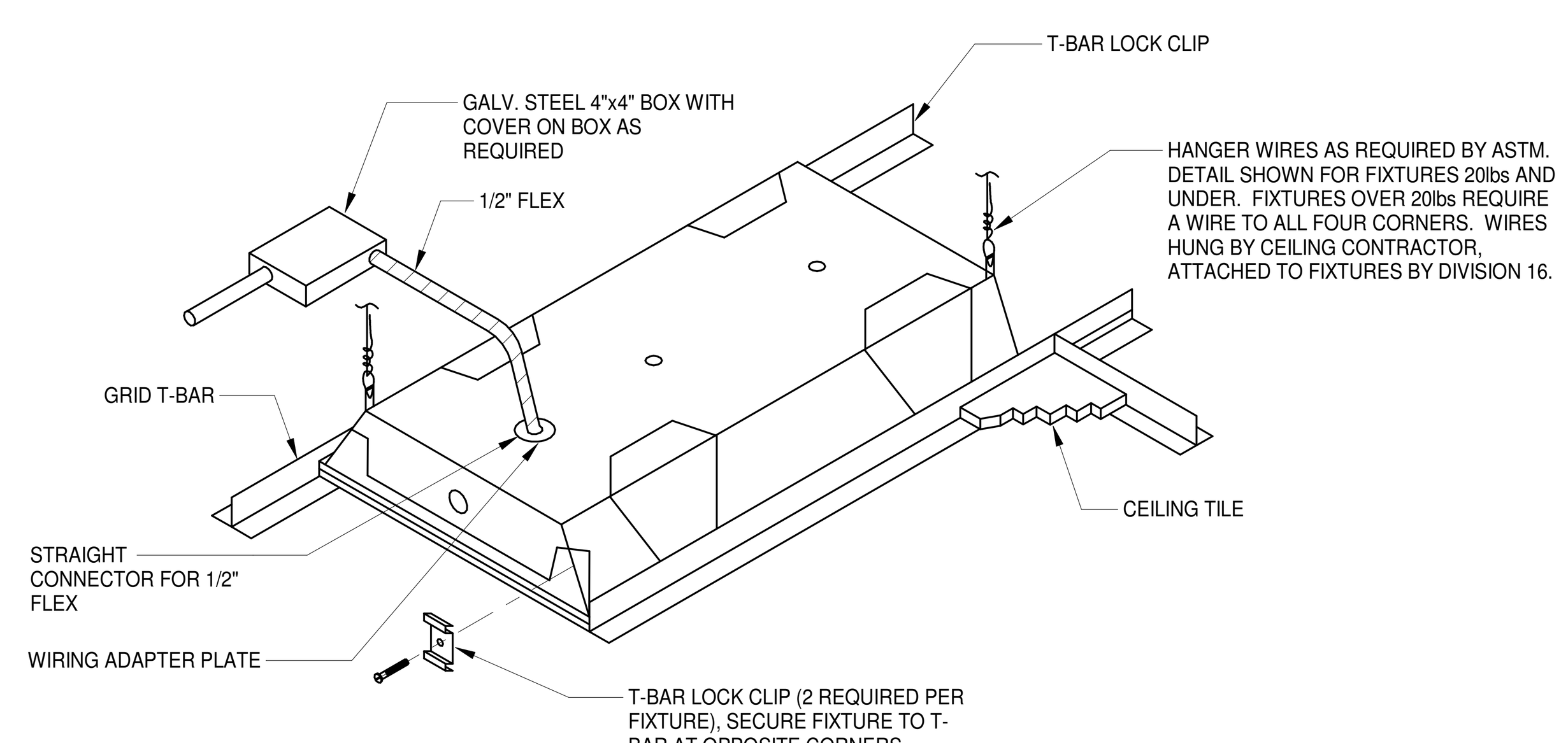


PROVIDE FIRE STOPPING THRU ALL RATED (1 HOUR AND ABOVE) WALLS. FIRE STOPPING SHALL BE 3M CP 25WB CAULK OR FIREDAM 150 CAULK OR EQUAL. FIRE STOPPING SHALL BE AS REQUIRED TO MAINTAIN A U.L. SYSTEM 319 CLOSURE.

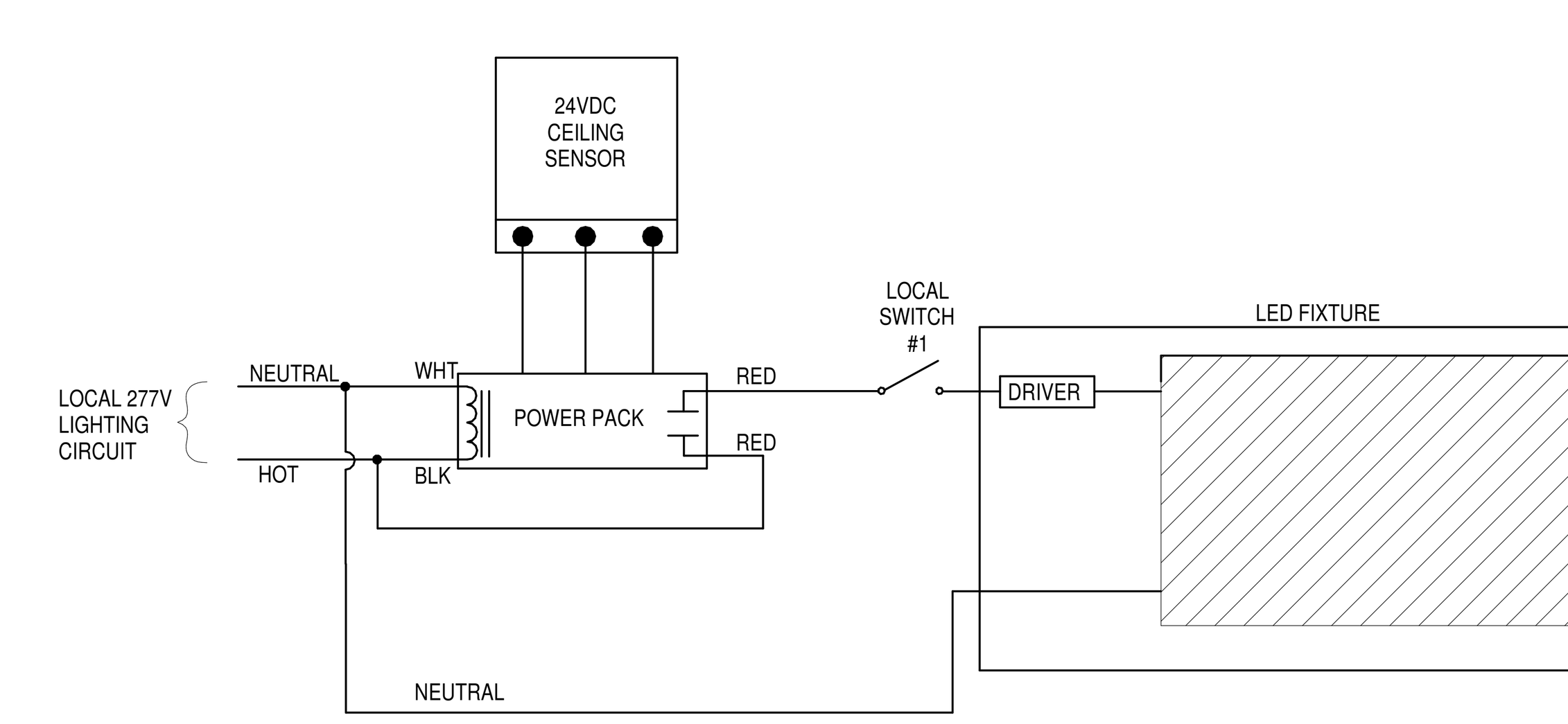
6 FIRE WALL CONDUIT SLEEVE DETAIL
12" = 1'-0"



7 HAND HOLE DETAIL
12" = 1'-0"



8 GRID FIXTURE MOUNTING DETAIL
12" = 1'-0"



9 LIGHTING FIXTURE CONTROL DETAIL
12" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

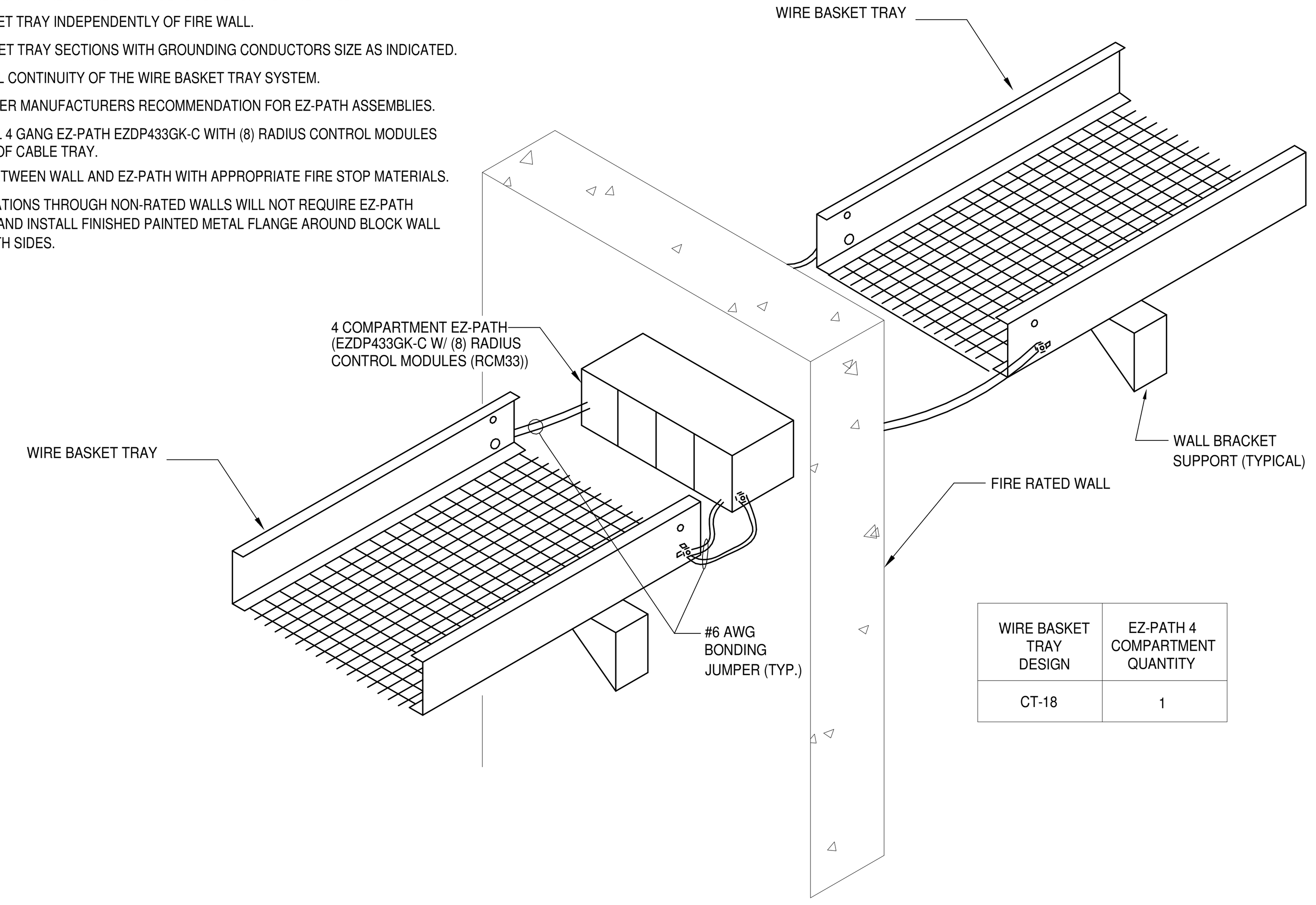
SHEET TITLE:
ELECTRICAL DETAILS

SHEET NO. PROJ. NO. 020420.00

E113

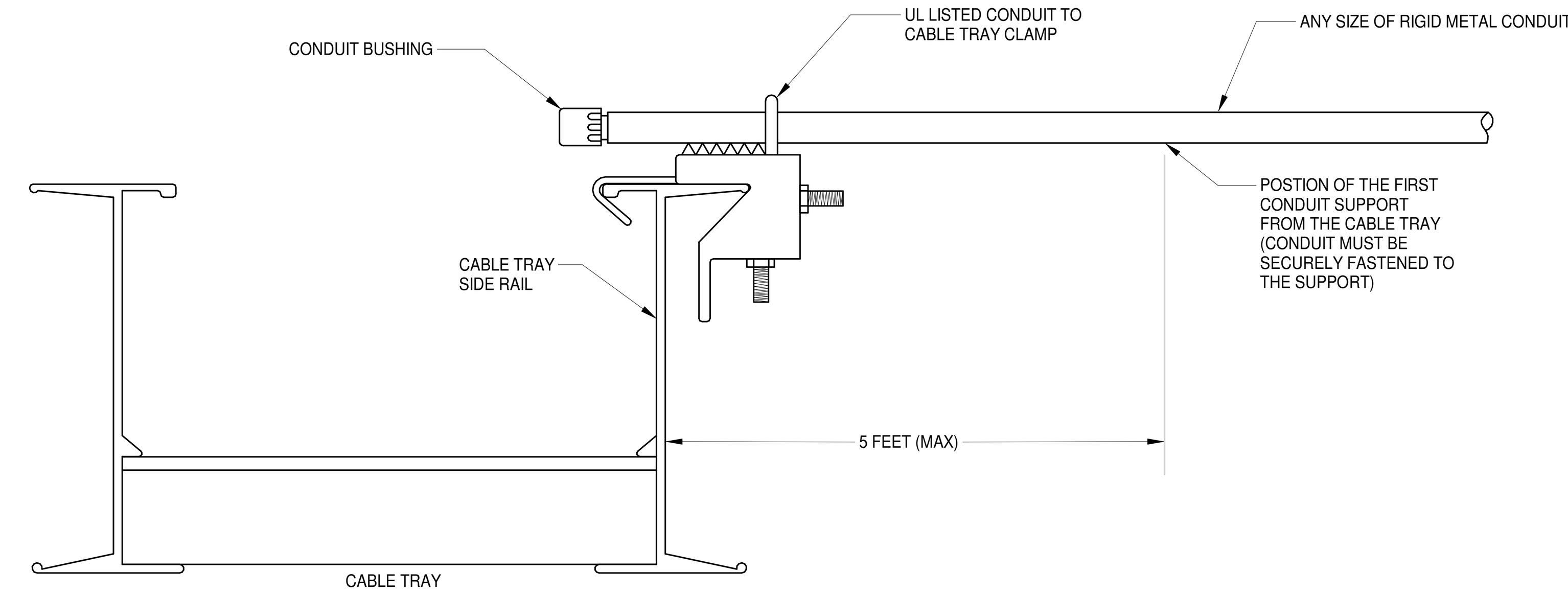
WIRE BASKET TRAY FIRE WALL DETAIL NOTES:

1. TERMINATE AND SUPPORT WIRE BASKET TRAY BEFORE REACHING FIRE WALL.
2. SUPPORT WIRE BASKET TRAY INDEPENDENTLY OF FIRE WALL.
3. CONNECT WIRE BASKET TRAY SECTIONS WITH GROUNDING CONDUCTORS SIZE AS INDICATED.
4. MAINTAIN ELECTRICAL CONTINUITY OF THE WIRE BASKET TRAY SYSTEM.
5. CUT WALL OPENING PER MANUFACTURERS RECOMMENDATION FOR EZ-PATH ASSEMBLIES.
6. FURNISH AND INSTALL 4 GANG EZ-PATH EZDP433GK-C WITH (8) RADIUS CONTROL MODULES BETWEEN SECTIONS OF CABLE TRAY.
7. PACK OPEN AREAS BETWEEN WALL AND EZ-PATH WITH APPROPRIATE FIRE STOP MATERIALS.
8. CABLE TRAY PENETRATIONS THROUGH NON-RATED WALLS WILL NOT REQUIRE EZ-PATH ASSEMBLY. FURNISH AND INSTALL FINISHED PAINTED METAL FLANGE AROUND BLOCK WALL PENETRATION ON BOTH SIDES.



WIRE BASKET TRAY DESIGN	EZ-PATH 4 COMPARTMENT QUANTITY
CT-18	1

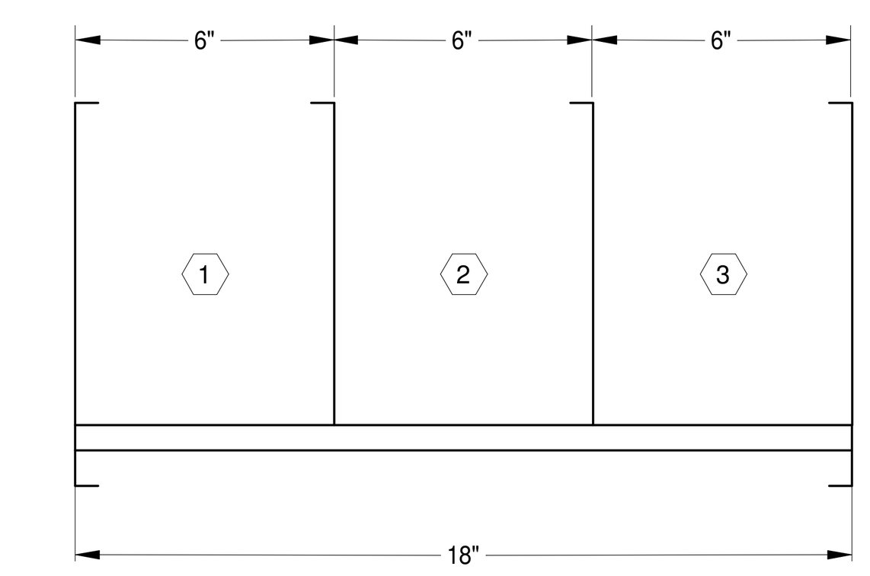
1 WIRE BASKET TRAY FIREWALL DETAIL - EZ PATH
12" = 1'-0"



NOTE:

1. CONDUIT MUST TERMINATE IN WIRE BASKET TRAY.

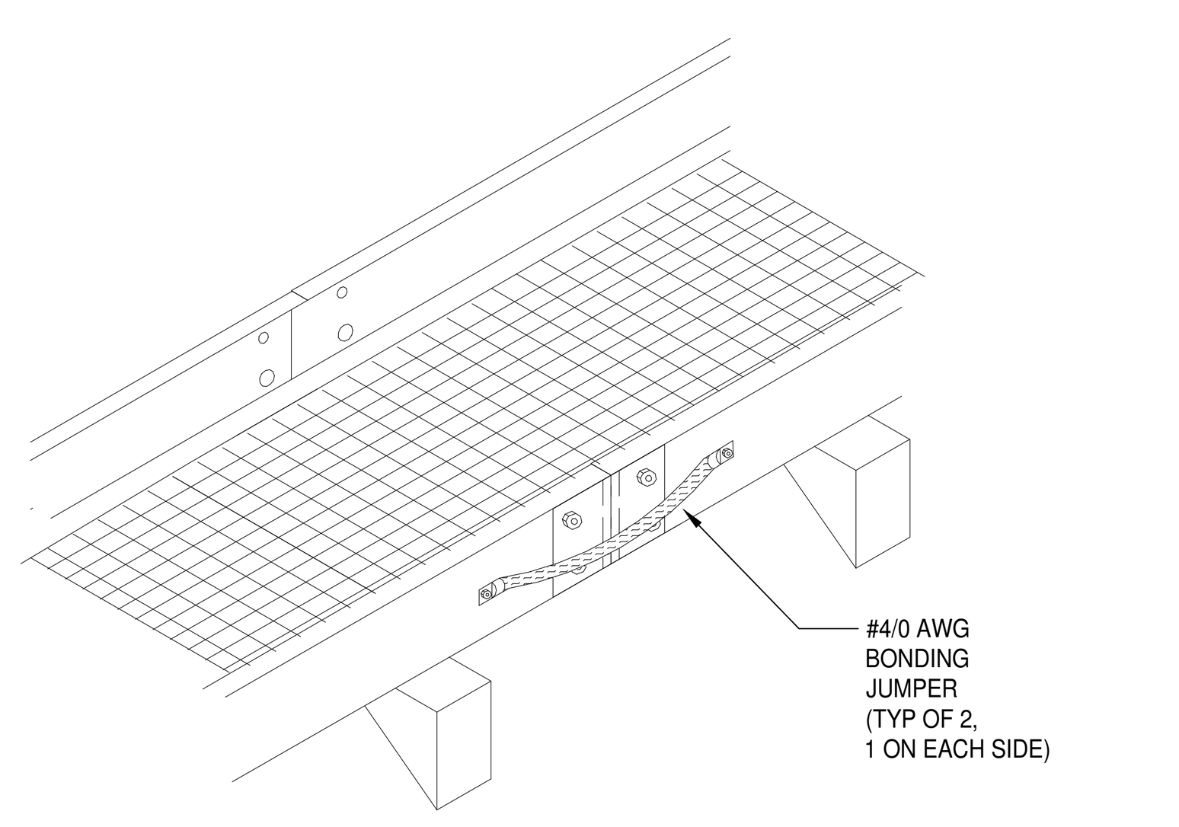
2 TYPICAL CONDUIT TERMINATION ON WIRE BASKET TRAY
12" = 1'-0"



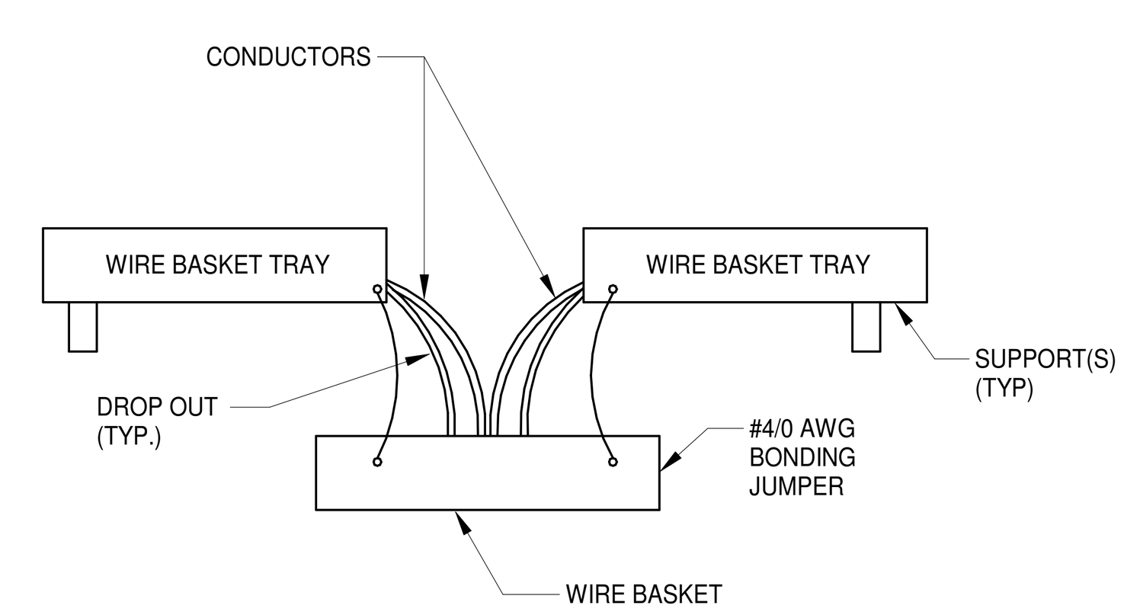
1 MISCELLANEOUS LOW VOLTAGE CABLING
2 SCETV & CCTV COAX CABLING
3 DATA & TELEPHONE CABLING

NOTES:
1. FIRE ALARM WIRING SHALL BE ROUTED IN CONDUIT & WILL NOT BE ALLOWED IN THE CABLE TRAY.

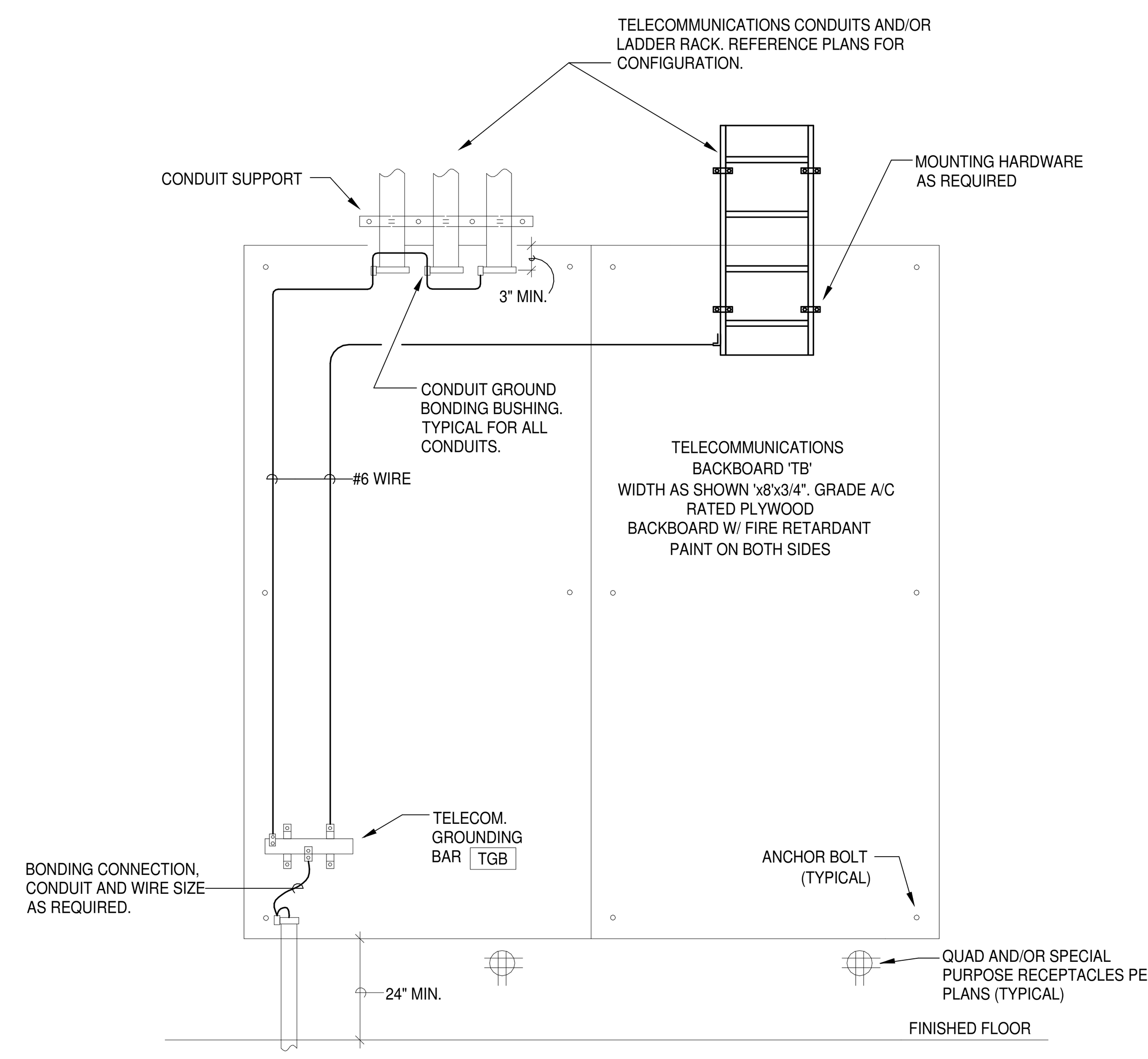
3 TYPICAL WIRE BASKET CROSS SECTION
12" = 1'-0"



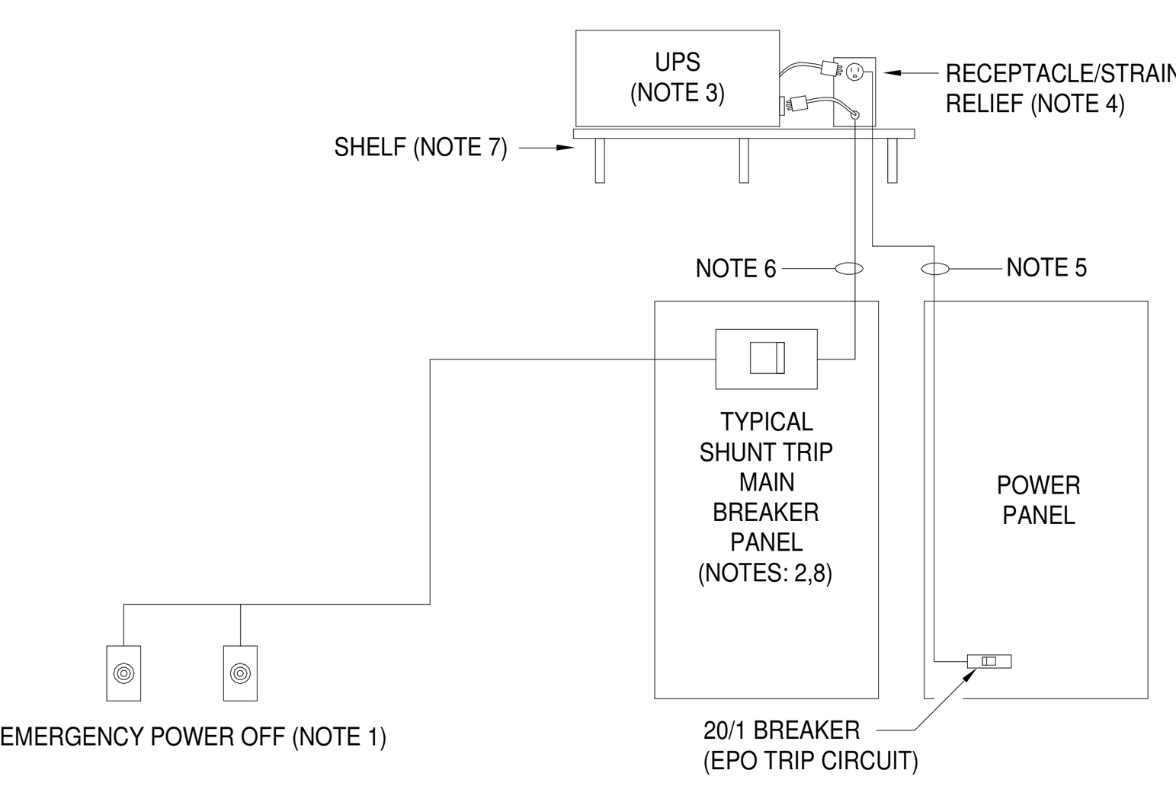
4 TYPICAL WIRE BASKET TRAY GROUNDING DETAIL
12" = 1'-0"



5 TYPICAL WIRE BASKET TRAY ELEVATION
12" = 1'-0"



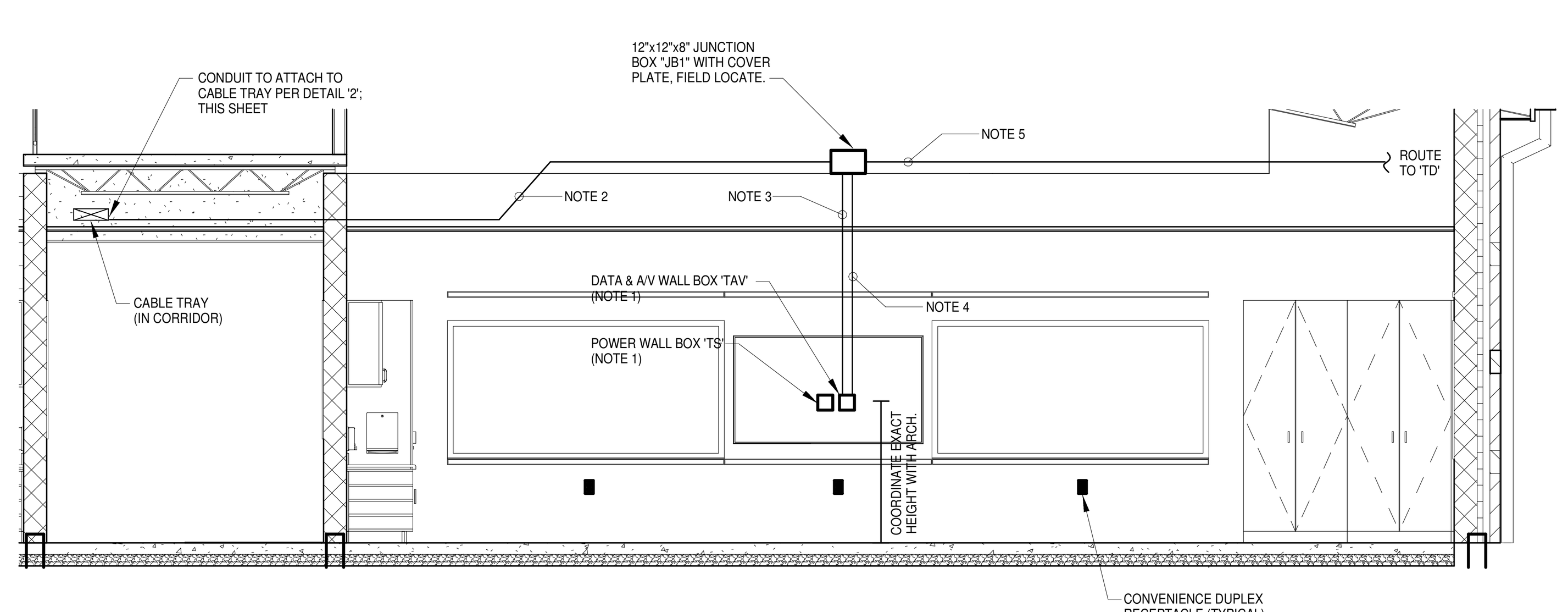
6 TELECOMMUNICATIONS BACKBOARD DETAIL
12" = 1'-0"



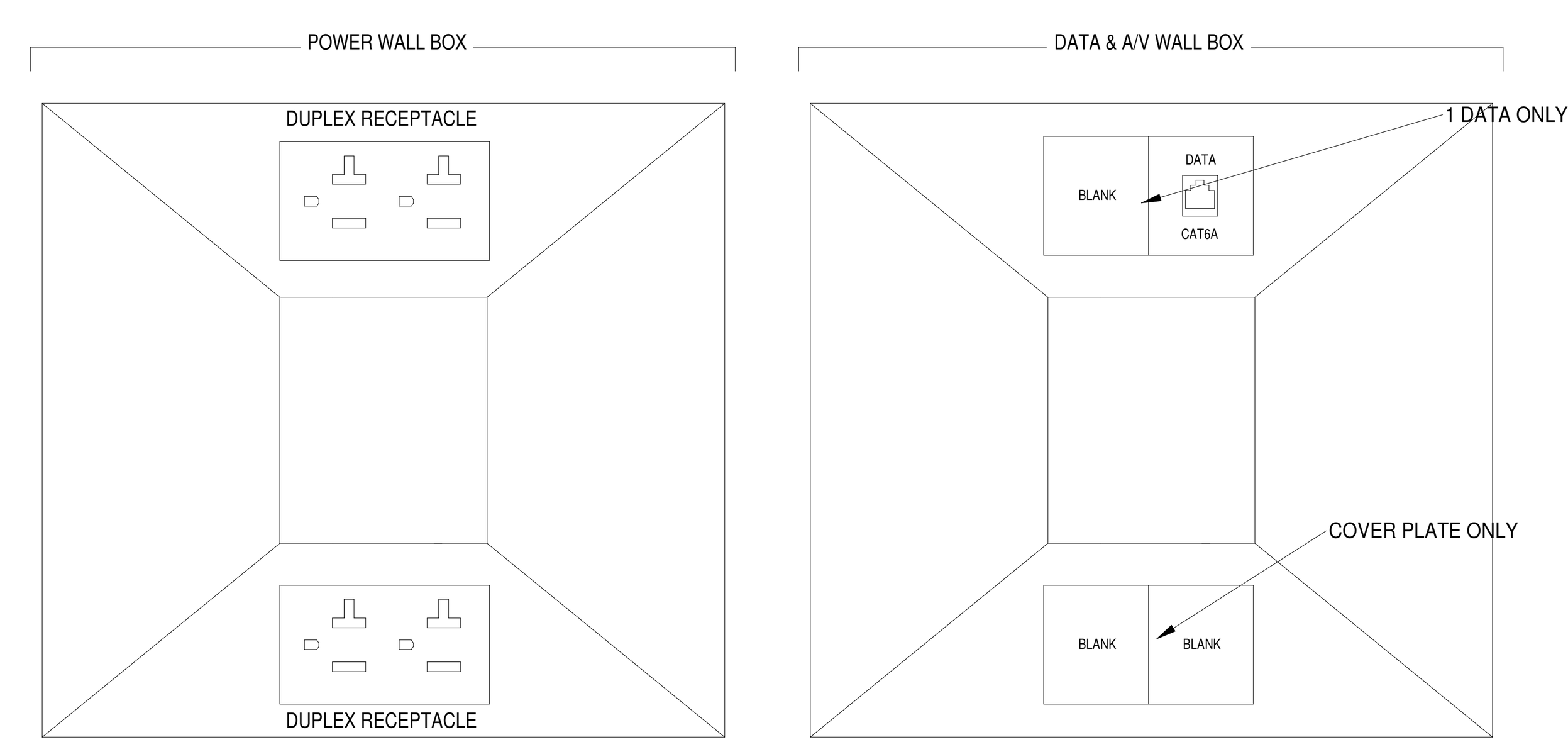
NOTES:

1. PROVIDE EMERGENCY POWER "OFF" (EPO) MUSHROOM BUTTON WITH LED LIGHT MODULE, ALUMINUM LEGEND PLATE WITH RED BACKGROUND AND SILVER LETTERING "EMERGENCY STOP", MOUNTED IN STAINLESS STEEL BOX. QUANTITY OF DEVICES INDICATED ON PLANS. INSTALL AT 48" ABOVE FINISHED FLOOR
2. SHUNT TRIP MAIN BREAKER PANEL PER ELECTRICAL PANEL SCHEDULE TIED INTO EPO.
3. PROVIDE UNINTERRUPTIBLE POWER SUPPLY (ACP-BK350) 120V, 200WATTS CONNECTED TO RECEPTACLE SHOWN.
4. SINGLE GANG JUNCTION BOX AND COVER PLATE WITH (1) 20A DUPLEX RECEPTACLE AND (1) STRAIN RELIEF FOR SO CORD.
5. ROUTE 2#12,#12G-3/4"C FROM 20/1 BREAKER (INDICATED ON PANEL SCHEDULE) TO DUPLEX RECEPTACLE ABOVE.
6. PROVIDE PRE-MANUFACTURED UL APPROVED NEMA 5-15 PLUG AND CORDSET ROUTED FROM UPS ABOVE THROUGH STRAIN RELIEF ON COVER PLATE TO POWER CIRCUIT FOR SHUNT TRIP BREAKER.
7. PROVIDE METAL SHELF 24" WIDE X 10" DEPTH WITH BRACKETS AND HARDWARE CAPABLE OF SUPPORTING 20LB LOAD. INSTALL ABOVE ELECTRICAL PANEL, FIELD LOCATE.
8. FURNISH AND INSTALL ADDITIONAL CONDUIT AND WIRING AS REQUIRED TO INTERLOCK ELECTRIC GAS AND WATER SOLENOID VALVES TO THIS 'EPO' SYSTEM.

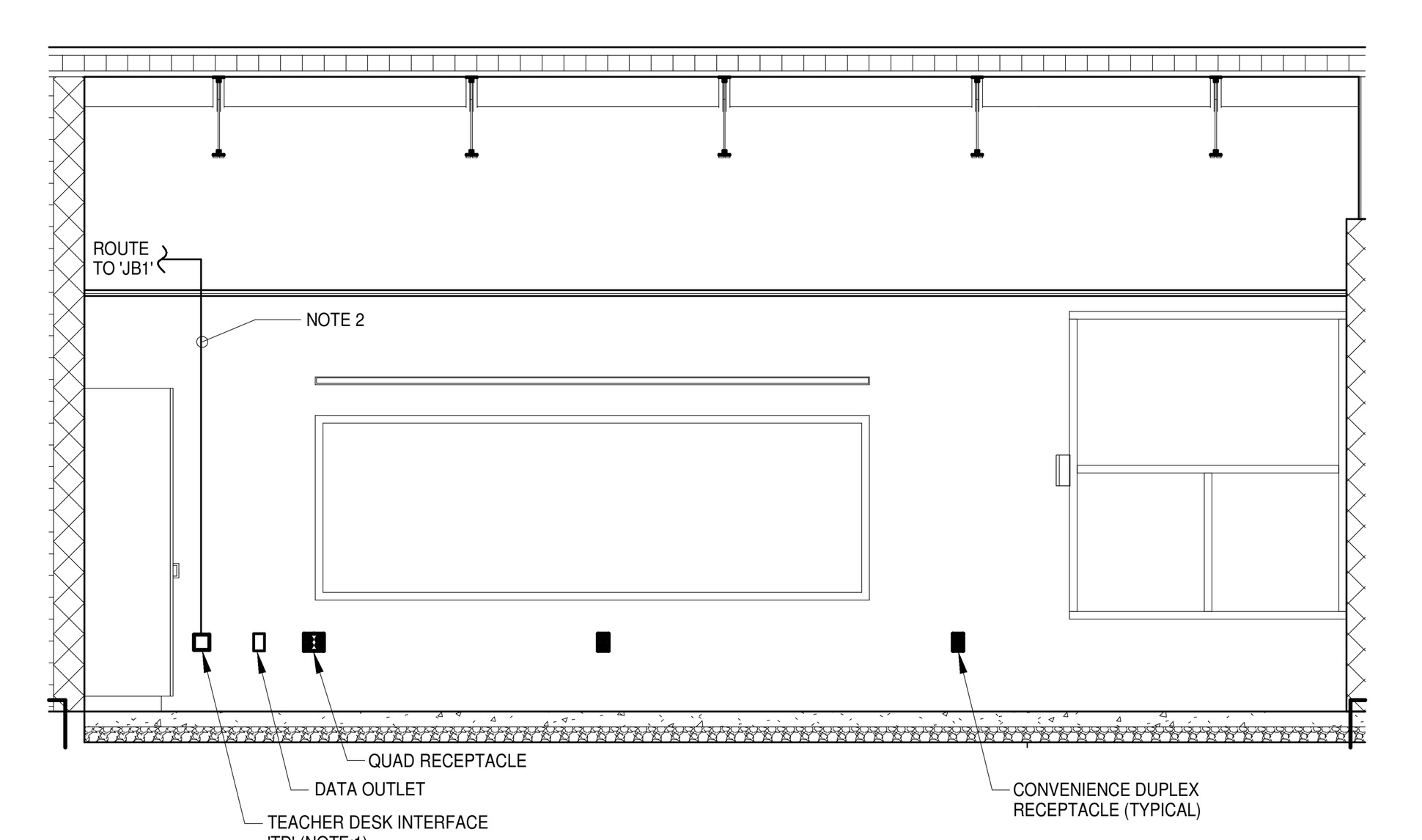
7 EMERGENCY POWER OFF 'EPO' DETAIL
12" = 1'-0"



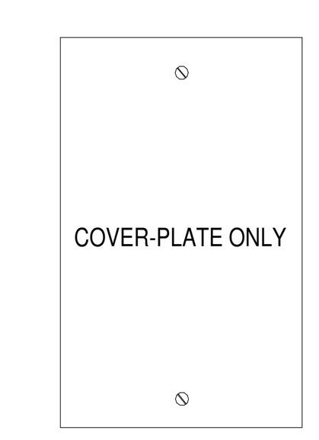
8 TYPICAL TEACHING WALL DETAIL
1/4" = 1'-0"



9 TOUCH SCREEN 'TAV' AND 'TS' INTERFACE DETAILS
12" = 1'-0"



10 TYPICAL TEACHER DESK DETAIL
1/4" = 1'-0"



11 TEACHER DESK 'TD' INTERFACE DETAIL
12" = 1'-0"

TEACHING WALL DETAIL NOTES:

1. COORDINATE EXACT LOCATION OF TOUCH SCREEN INTERFACE 'TS' AND 'TAV' BOXES WITH ARCHITECT PRIOR TO PERFORMING ANY WORK.

2. FURNISH AND INSTALL (1)-1" CONDUIT WITH:
   a. (2)-CAT6A PLENUM RATED DATA CABLES.

3. FURNISH AND INSTALL (1)-1" CONDUIT WITH:
   a. (2)-CAT6A PLENUM RATED DATA CABLES.

4. FURNISH AND INSTALL (2)-1 1/4" CONDUITS WITH:
   a. (1)-HDMI CABLE.
   b. (1) USB 2.0 TYPE A/B CABLE.

5. FURNISH AND INSTALL (1)-1 1/2" CONDUIT WITH:
   a. (1)-USB 2.0 TYPE A/B CABLE.
   b. (1)-HDMI CABLE.

CABLING NOTES:

A. ALL HDMI CABLES BETWEEN TEACHER DESK AND TOUCH SCREEN SHALL BE KRAMER C-HM/HM-40. CONTRACTOR SHALL FURNISH AND INSTALL POWER AMPLIFICATION EQUIPMENT AS REQUIRED IF LENGTH OF HDMI RUN EXCEEDS 40'-0".

B. ALL USB CABLES BETWEEN TEACHER DESK AND TOUCH SCREEN SHALL BE QUIKTRON QT 39000. CONTRACTOR SHALL KEEP ROUTING OF CABLE UNDER 30'. CONTRACTOR SHALL FURNISH AND INSTALL POWER AMPLIFICATION EQUIPMENT AS REQUIRED IF LENGTH OF USB RUN EXCEEDS 35'-0".

C. ALL RS232 CABLING BETWEEN CLASSROOM AUDIO CONTROLLER AND TOUCH SCREEN SHALL BE DB9 SERIES LOW PROFILE.

TEACHER DESK DETAIL NOTES:

1. COORDINATE EXACT LOCATION OF TEACHER DESK INTERFACE 'TD' BOX WITH ARCHITECT PRIOR TO PERFORMING ANY WORK.

2. FURNISH AND INSTALL (2)-1 1/4" CONDUITS WITH:
   a. (1)-USB 2.0 TYPE A/B CABLE.
   b. (1)-HDMI CABLE.

CABLING NOTES:

A. ALL HDMI CABLES BETWEEN TEACHER DESK AND TOUCH SCREEN SHALL BE KRAMER C-HM/HM-40. CONTRACTOR SHALL FURNISH AND INSTALL POWER AMPLIFICATION EQUIPMENT AS REQUIRED IF LENGTH OF HDMI RUN EXCEEDS 40'-0".

B. ALL USB CABLES BETWEEN TEACHER DESK AND TOUCH SCREEN SHALL BE QUIKTRON QT 39000. CONTRACTOR SHALL KEEP ROUTING OF CABLE UNDER 30'. CONTRACTOR SHALL FURNISH AND INSTALL POWER AMPLIFICATION EQUIPMENT AS REQUIRED IF LENGTH OF USB RUN EXCEEDS 35'-0".

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

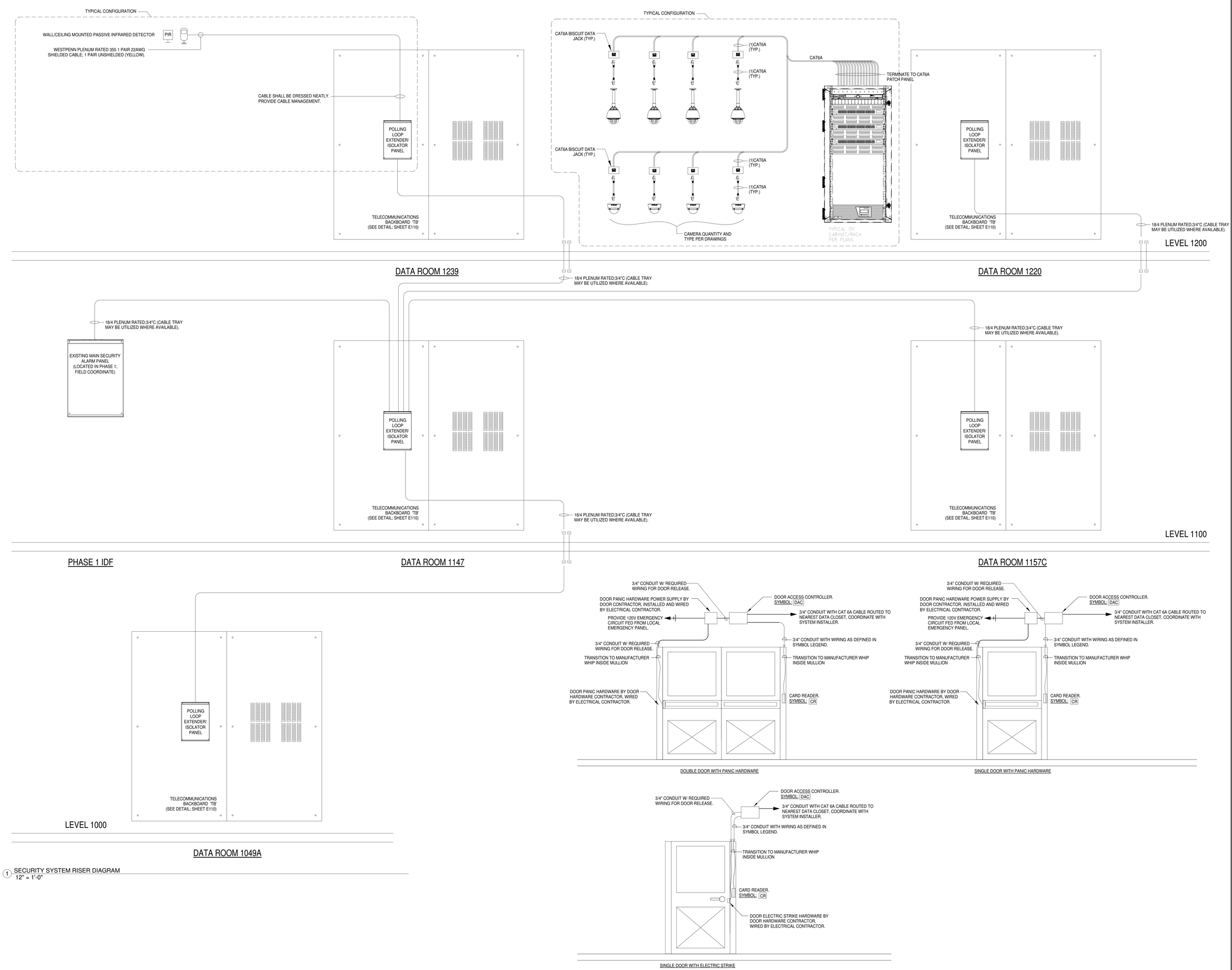
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

ELECTRICAL DETAILS

SHEET NO. PROJ. NO. 020420.00

E114



1 SECURITY SYSTEM RISER DIAGRAM
12" = 1'-0"

2 TYPICAL ACCESS CONTROL DIAGRAM
12" = 1'-0"

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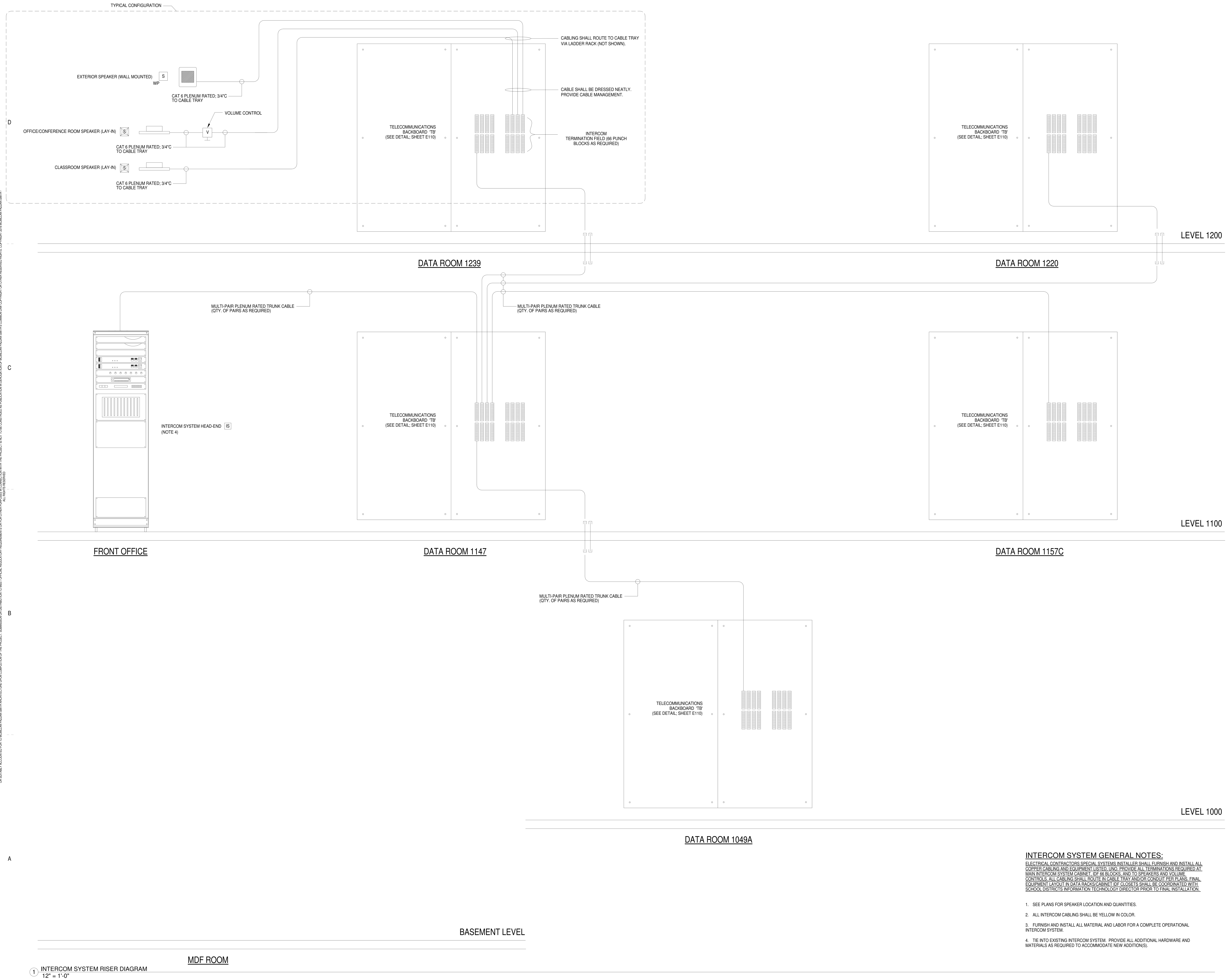
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
CCTV CAMERA AND SECURITY RISER DIAGRAM

SHEET NO. E115
PROJ. NO. 020420.00



1 INTERCOM SYSTEM RISER DIAGRAM
12" = 1'-0"

INTERCOM SYSTEM GENERAL NOTES:

ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER SHALL FURNISH AND INSTALL ALL COPPER CABLING AND EQUIPMENT LISTED, UNO. PROVIDE ALL TERMINATIONS REQUIRED AT MAIN INTERCOM SYSTEM CABINET, IDF 66 BLOCKS, AND TO SPEAKERS AND VOLUME CONTROLS. ALL CABLING SHALL ROUTE IN CABLE TRAY AND/OR CONDUIT PER PLANS. FINAL EQUIPMENT LAYOUT IN DATA RACKS/CABINET IDF CLOSETS SHALL BE COORDINATED WITH SCHOOL DISTRICTS INFORMATION TECHNOLOGY DIRECTOR PRIOR TO FINAL INSTALLATION.

1. SEE PLANS FOR SPEAKER LOCATION AND QUANTITIES.
2. ALL INTERCOM CABLING SHALL BE YELLOW IN COLOR.
3. FURNISH AND INSTALL ALL MATERIAL AND LABOR FOR A COMPLETE OPERATIONAL INTERCOM SYSTEM.
4. TIE INTO EXISTING INTERCOM SYSTEM. PROVIDE ALL ADDITIONAL HARDWARE AND MATERIALS AS REQUIRED TO ACCOMMODATE NEW ADDITION(S).

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150 E. MAIN STREET
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PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
INTERCOM SYSTEM
RISER DIAGRAM

SHEET NO. E116
PROJ. NO. 020420.00

DATA SYSTEMS GENERAL NOTES:

ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER SHALL FURNISH AND INSTALL ALL COPPER/FIBER CABLING AND EQUIPMENT LISTED, UNO. PROVIDE ALL TERMINATIONS FROM MDF/IDF CLOSETS TO DEVICE/JACK. ALL CABLING SHALL ROUTE IN CABLE TRAY AND/OR CONDUIT PER PLANS. FINAL EQUIPMENT LAYOUT IN DATA RACKS/CABINET SHALL BE COORDINATED WITH SCHOOL DISTRICTS INFORMATION TECHNOLOGY DIRECTOR PRIOR TO FINAL INSTALLATION.

1. 6 STRAND INTERLOCKING ARMORED CABLE, PLENUM RATED OM4 FIBER (CORNING: 006T88-31190-A3).

2. ALL DATA CABLING SHALL BE CAT6A CABLE (BELDEN: 10GXW13D151000) CMP-LP PLENUM RATED UUTP 4 PAIR CABLING. PROVIDE 6'-0" SERVICE LOOP FOR ALL DATA DROPS. SEE CABLE COLOR CODES BELOW (NOTE 8).

3. FACEPLATES SHALL BE STAINLESS STEEL (PANDUIT CFPL2SY OR CFPL4SY AS IT APPLIES) WITH QUANTITY OF JACKS PER PLANS.

4. ALL CABLES, PATCH PANELS, DATA JACKS, AND DEVICES SHALL BE LABELED IN ACCORDANCE TO TIA 568 STANDARDS.

5. ALL DATA, VOICE, CCTV, AND WIRELESS ACCESS POINT JACKS SHALL BE RJ-45 JACKS (PANDUIT CAT6A) CONFIGURED FOR 568B WIRING, CERTIFIED FOR CAT 6A CABLING. SEE NOTE 7 BELOW.

6. DATA JACK COLOR SHALL COORDINATE WITH COLOR CODE BELOW.

7. PROVIDE RECORD OF CAT 6A CERTIFICATION.

8. THE FOLLOWING COLOR CODES WILL APPLY FOR LOW VOLTAGE CABLING:
- DATA; BLUE
- VOICE; BLUE
- CCTV; GREEN
- WIRELESS ACCESS POINTS; PURPLE
- INTERCOM; GRAY,
- SECURITY; GREEN.

9. SHOWN IS TYPICAL (3) RACK CONFIGURATION. SPECIAL SYSTEMS INSTALLER SHALL CONFIGURE FIBER ENCLOSURE, PATCH PANELS, AND HORIZONTAL CABLE MANAGERS IN RACK ACCORDINGLY BASED OFF OF DATA REQUIREMENTS FOR EACH FLOOR SERVED. PROVIDE ADDITIONAL 48 PORT PATCH PANEL AND 2RU HORIZONTAL CABLE MANAGER FOR EACH RACK.

10. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR EQUIPMENT IN RACK/CABINET, MOUNTING OF VERTICAL CABLE MANAGERS TO ADJACENT RACKS (AS IT APPLIES) AND SECURING TO FLOOR. PROVIDE HORIZONTAL LADDER FOR ADDITIONAL SUPPORT IF REQUIRED.

11. PROVIDE ALL GROUNDING FROM TGB TO RACKS AND LADDER.

KEYED NOTES:

ELECTRICAL CONTRACTORS SPECIAL SYSTEMS INSTALLER SHALL FURNISH AND INSTALL ALL EQUIPMENT AND CABLING LISTED ON THIS SHEET, UNO. BASIS OF DESIGN IS PANDUIT. TEN DAYS PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.

1A. 4RU FIBER ENCLOSURE (PANDUIT FCE4U) WITH (12) 6 PORT SC SINGLEMODE ZIRCONIA FIBER ADAPTER PANELS (PANDUIT FAP6WAQSCZ).

1B. 1RU FIBER ENCLOSURE (PANDUIT FCE1U) WITH (3) 6 PORT SC SINGLEMODE ZIRCONIA FIBER ADAPTER PANELS (PANDUIT FFAP6WAQSCZ) AND (1) 6 PORT LC SINGLEMODE ZIRCONIA FIBER ADAPTER PANELS (PANDUIT FAP6WAQDLCZ).

2. 48 PORT MODULAR PATCH PANEL (PANDUIT) WITH (48) CAT 6A RJ45 JACK MODULES, 568B, 8 POSITION, 8 WIRE UNIVERSAL MODULE (PANDUIT CAT6A COLOR) JACK COLOR TO CORRESPOND WITH COLOR CODE (NOTE 9). DATA AND VOICE TO TERMINATE TO THIS PATCH PANEL.

3A. 24 PORT MODULAR PATCH PANEL (PANDUIT) WITH (24) CAT 6A RJ45 JACK MODULES, 568B, 8 POSITION, 8 WIRE UNIVERSAL MODULE: PANDUIT CAT6A-COLOR. JACK COLOR TO CORRESPOND WITH COLOR CODE (NOTE 9). DATA AND VOICE TO TERMINATE TO THIS PATCH PANEL.

4. 1GbE 48 PORT SWITCH FURNISHED AND INSTALLED BY SCHOOL DISTRICTS SPECIAL SYSTEMS INSTALLER.

5. 1GbE 24 PORT SWITCH FURNISHED AND INSTALLED BY SCHOOL DISTRICTS SPECIAL SYSTEMS INSTALLER.

6. 2200VA UNINTERRUPTABLE POWER SUPPLY (UPS) (APC SRT2200RMXLA).

7. 2RU HORIZONTAL DOUBLE SIDED CABLE MANAGEMENT (PANDUIT WMP1E).

8. 1RU HORIZONTAL DOUBLE SIDED CABLE MANAGEMENT (PANDUIT WMPSE).

9. VERTICAL DOUBLE SIDED CABLE MANAGEMENT (PANDUIT WMPV45E).

10. 84" X 19" 45U 2 POST BLACK FLOOR MOUNTED RACK (PANDUIT R2P).

11. (2) 4" SLEEVES WITH GROUNDING TYPE END BUSHINGS AND #6 TO TGB.

1 DATA SYSTEMS RISER DIAGRAM
12" = 1'-0"

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

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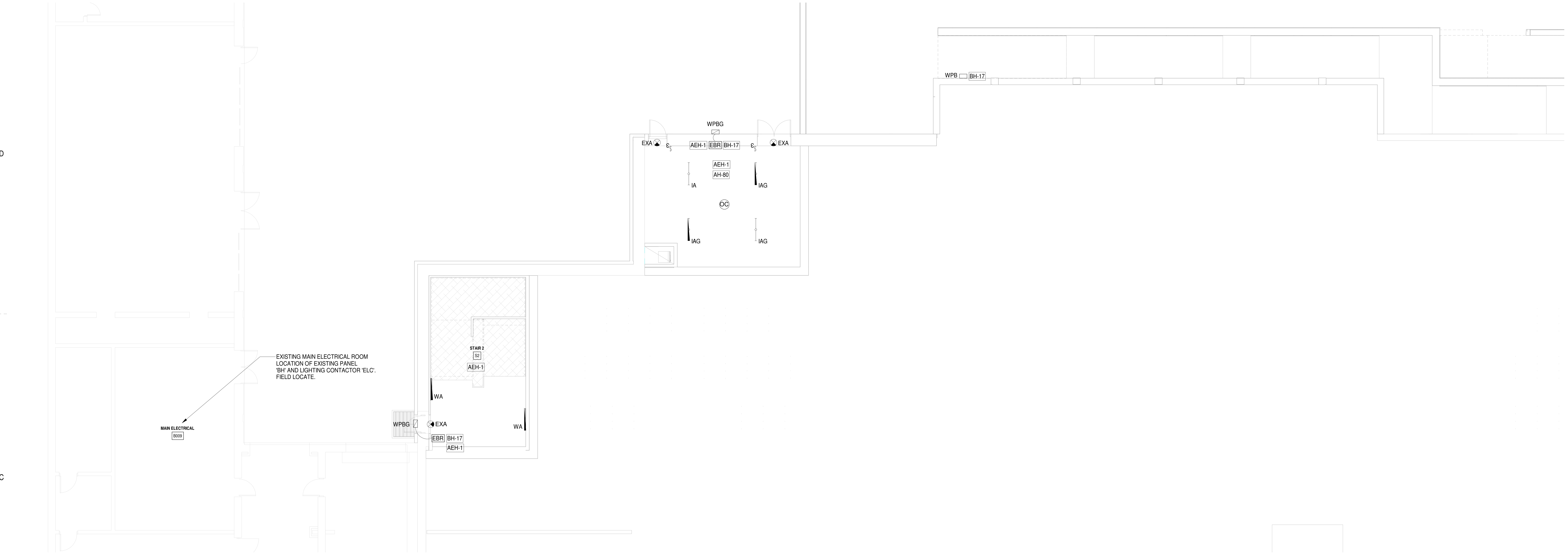
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

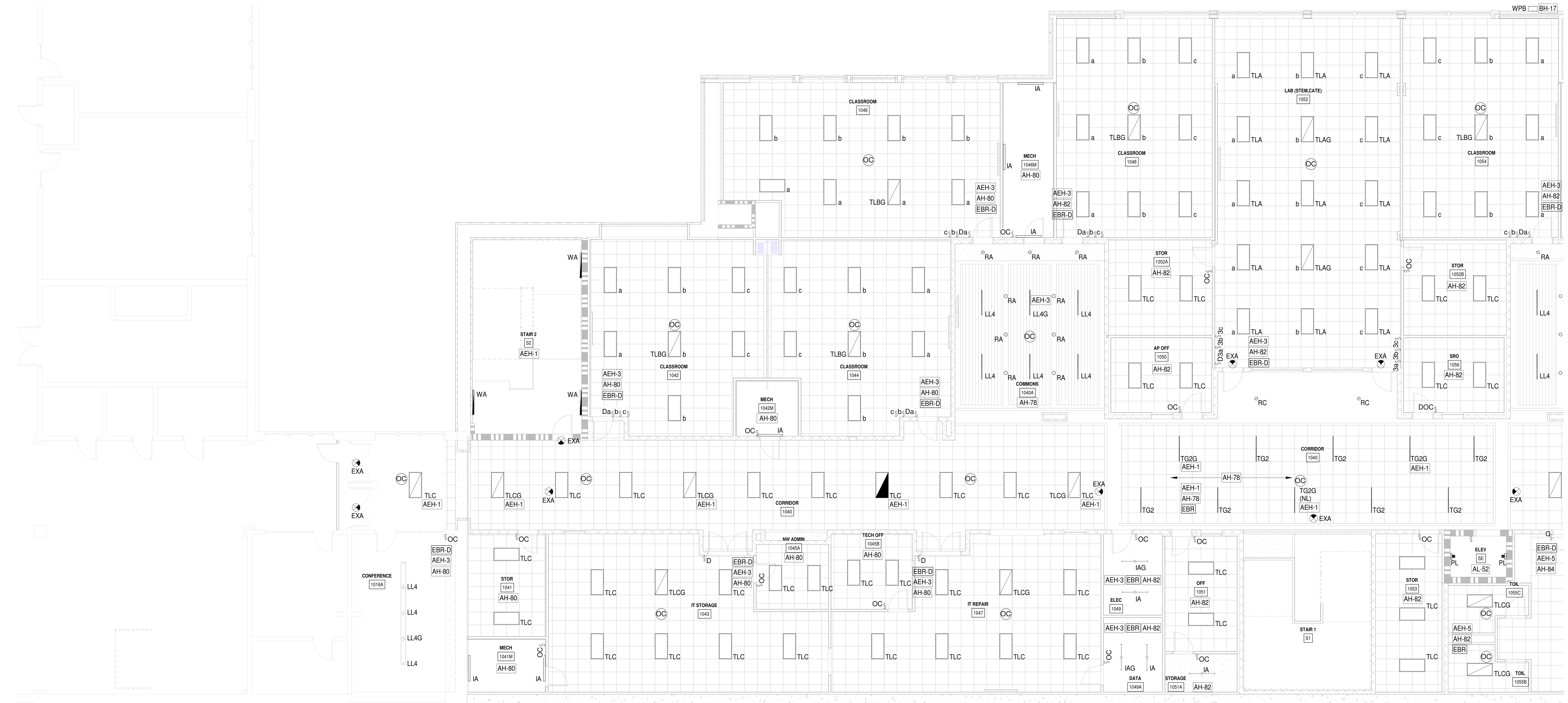
SHEET TITLE:
DATA SYSTEMS RISER DIAGRAM

SHEET NO. E117

PROJ. NO. 020420.00



1 LIGHTING PLAN-BASEMENT
1/8" = 1'-0"



2 LIGHTING PLAN - LEVEL 1000 - AREA 'A'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

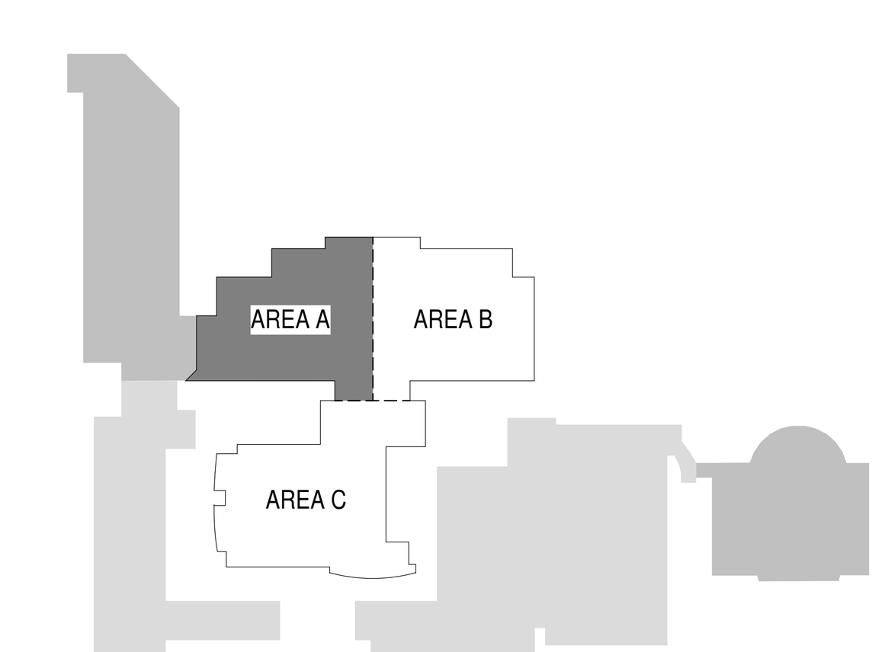
3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR LIGHTING WILL ROUTE THROUGH EXISTING LIGHTING CONTROLLER 'ELC' LOCATED IN PHASE 1 MAIN ELECTRICAL ROOM 'B009'. ROUTE 2#10,#10G-3/4"C FOR CIRCUIT.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

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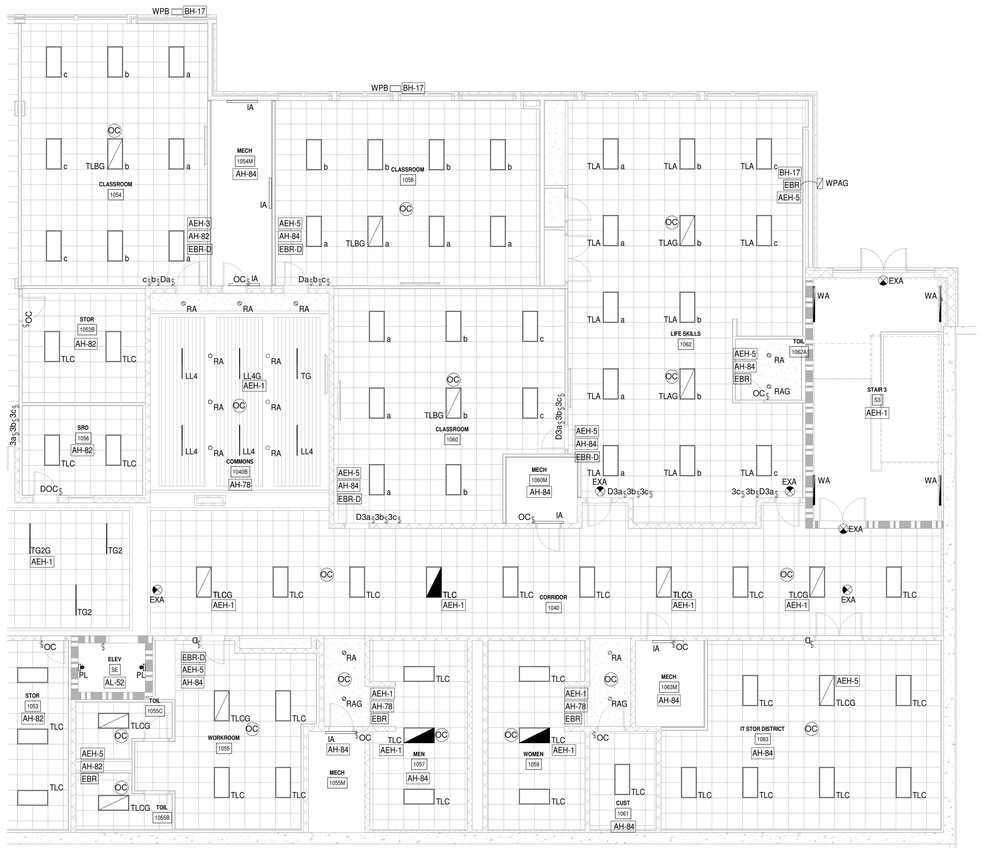
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

LIGHTING PLAN - BASEMENT & LEVEL 1000 - AREA 'A'

SHEET NO. PROJ. NO. 020420.00

E201



1 LIGHTING PLAN - LEVEL 1000 - AREA 'B'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

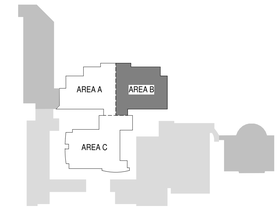
3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR LIGHTING WILL ROUTE THROUGH EXISTING LIGHTING CONTROLLER 'ELC' LOCATED IN PHASE 1 MAIN ELECTRICAL ROOM 'B009'. ROUTE 2#10,#10G-3/4"C FOR CIRCUIT.



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SEALS

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JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

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PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1000 - AREA 'B'

SHEET NO. E202

PROJ. NO. 020420.00

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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

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PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

1 LIGHTING PLAN - LEVEL 1100 - AREA 'A'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

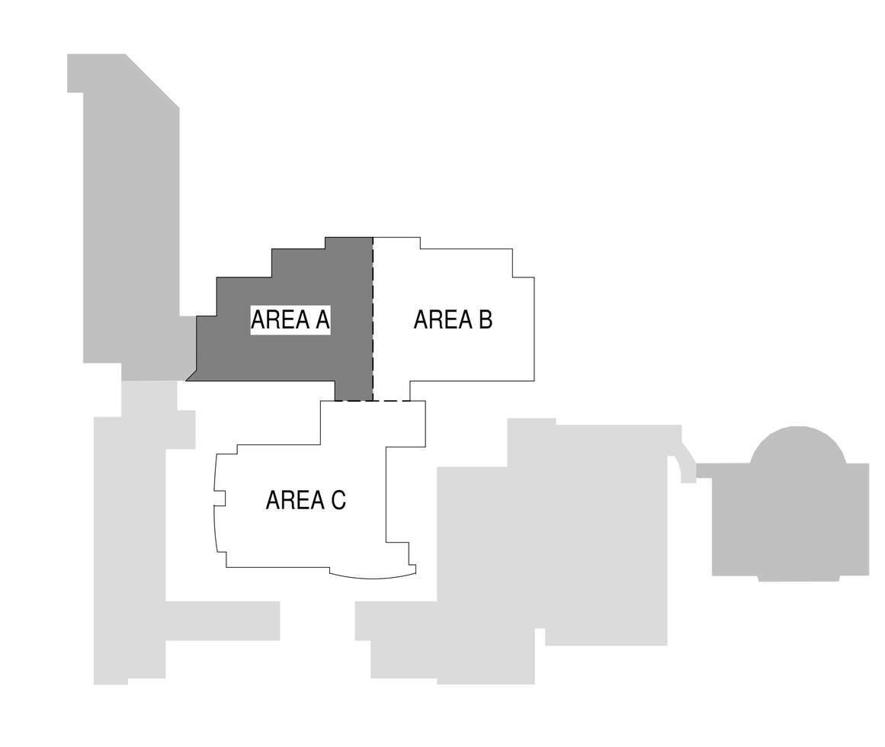
3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR LIGHTING WILL ROUTE THROUGH EXISTING LIGHTING CONTROLLER 'ELC' LOCATED IN PHASE 1 MAIN ELECTRICAL ROOM 'B009'. ROUTE 2#10,#10G-3/4"C FOR CIRCUIT.



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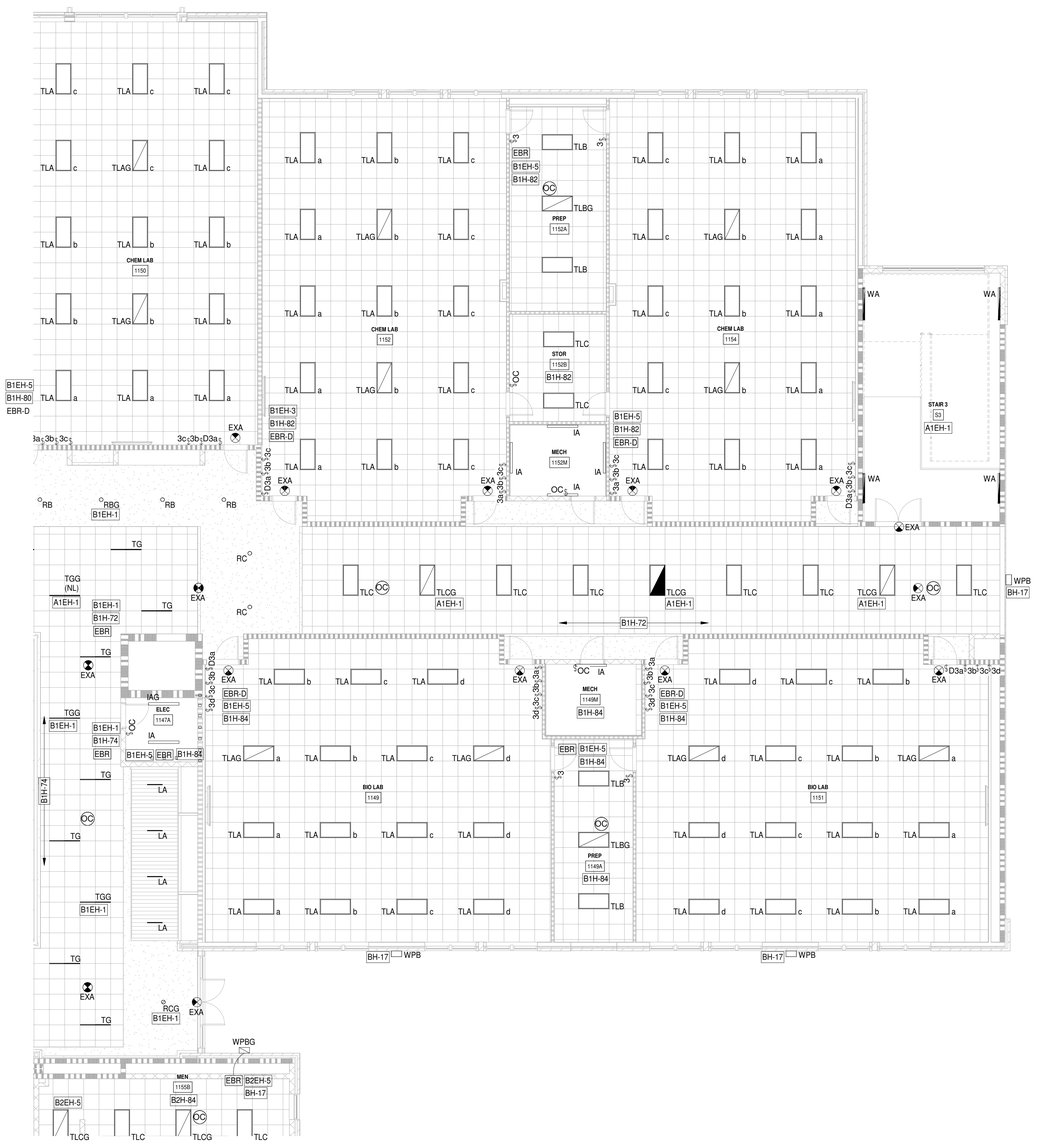
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1100 - AREA 'A'

SHEET NO. E203

PROJ. NO. 020420.00



1 LIGHTING PLAN - LEVEL 1100 - AREA 'B'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR LIGHTING WILL ROUTE THROUGH EXISTING LIGHTING CONTROLLER 'ELC' LOCATED IN PHASE 1 MAIN ELECTRICAL ROOM 'B009'. ROUTE 2#10,#10G-3/4"C FOR CIRCUIT.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

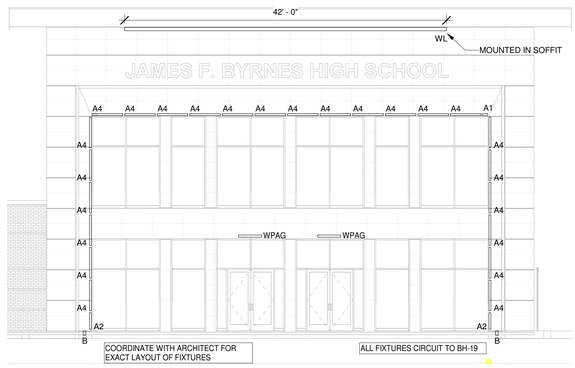
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1100 - AREA 'B'

SHEET NO. E204

PROJ. NO. 020420.00

1 LIGHTING PLAN - LEVEL 1100 - AREA 'C'
1/8" = 1'-0"



2 ENTRANCE LIGHTING
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR LIGHTING WILL ROUTE THROUGH EXISTING LIGHTING CONTROLLER 'ELC' LOCATED IN PHASE 1 MAIN ELECTRICAL ROOM 'B009'. ROUTE 2#10,#10G-3/4"C FOR CIRCUIT.

8. FURNISH AND INSTALL HAND HOLE FOR FUTURE PHASE 3 LIGHTING REQUIREMENTS. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1100 - AREA 'C'

SHEET NO. E205

PROJ. NO. 020420.00

1 LIGHTING PLAN - LEVEL 1200 - AREA 'A'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1200 - AREA 'A'

SHEET NO.
E206

PROJ. NO.
020420.00

LIGHTING PLAN - LEVEL 1200 - AREA 'B'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

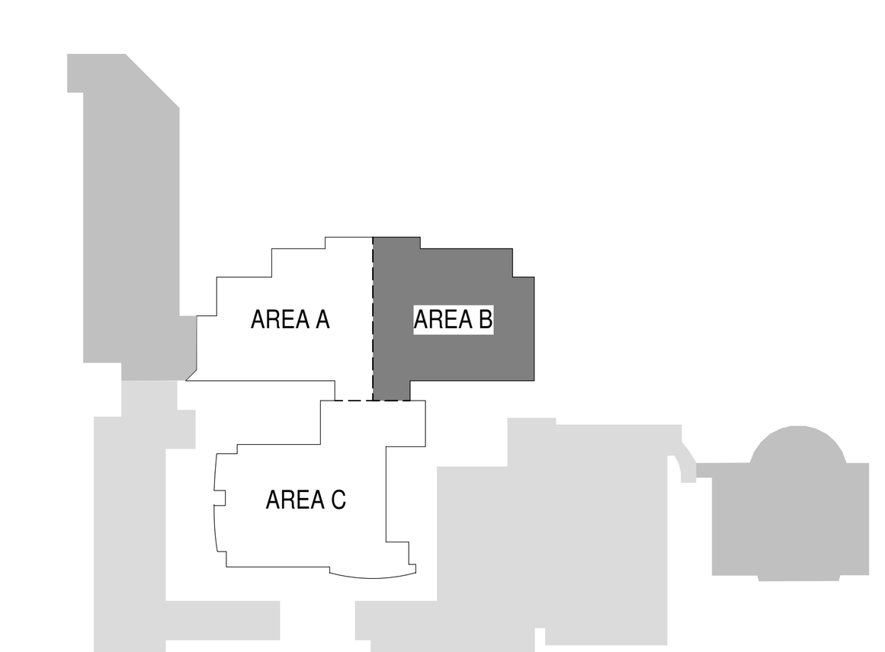
3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. SEE AVL DRAWINGS FOR DETAILED INFORMATION IN THIS AREA INCLUDING BUT NOT LIMITED TO: POWER, LIGHTING, LOW VOLTAGE, AND RACEWAY REQUIREMENTS. ADDITIONAL POWER AND LIGHTING CIRCUITS INDICATED ON AVL PLANS. FEED FROM LOCAL PANEL AND PROVIDE QUANTITY OF BREAKERS AS REQUIRED.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

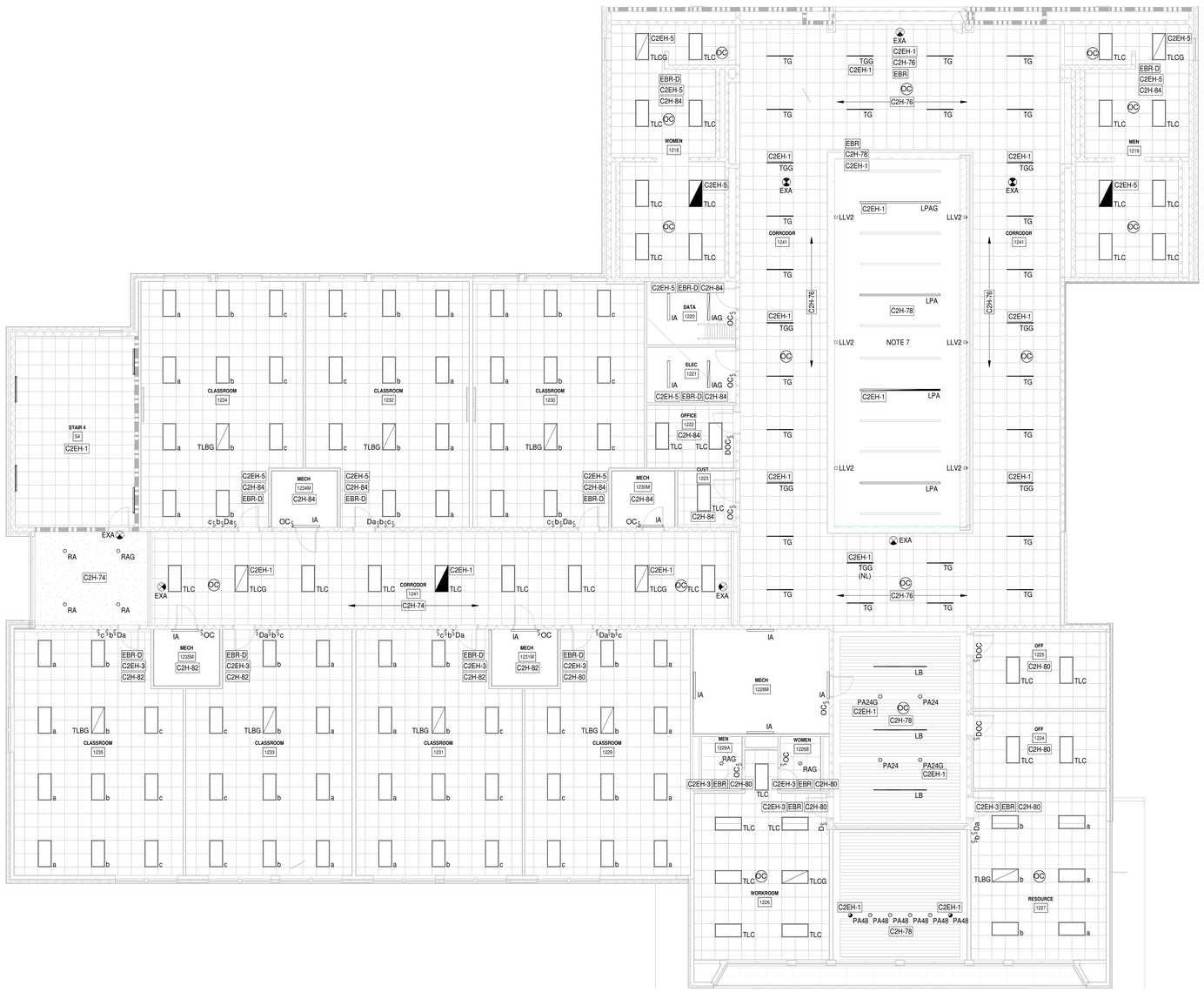
NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1200 - AREA 'B'

SHEET NO. E207
PROJ. NO. 020420.00



1 LIGHTING PLAN - LEVEL 1200 - AREA 'C'
1/8" = 1'-0"

LIGHTING NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE NOT INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (2) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL. IF LENGTH OF BRANCH CIRCUIT EXCEEDS 150'-0", ROUTE #10AWG.

2. PULL AN UN-SWITCHED LEG OF THE LOCAL NORMAL POWER LIGHTING CIRCUIT TO ALL FIXTURES SHOWN WITH EMERGENCY GENERATOR TRANSFER DEVICE (EBR).

3. DETERMINE EXACT LOCATION FOR ALL LIGHT FIXTURES IN FIELD. COORDINATE WITH CEILING GRID LAYOUT WHERE APPLICABLE AND WITH OTHER TRADES.

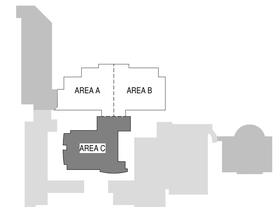
4. EXIT SIGNS SHALL BE FED FROM LOCAL EMERGENCY GENERATOR CIRCUIT.

5. CIRCUIT EMERGENCY LIGHTING FIXTURES AS SHOWN VIA GENERATOR TRANSFER DEVICE (EBR). IN ADDITION, FIXTURE SHALL BE CIRCUITED TO LOCAL LIGHTING CIRCUIT.

6. ALL FIXTURES ARE TYPE 'TLB' UNLESS OTHERWISE NOTED.

7. PROVIDE (2) WALL MOUNTED OC SENSORS LOCATED ON 1100 FLOOR FOR ACTIVATION OF 'LPA' AND 'LLV2' FIXTURES.

8. PROVIDE (1) WALL MOUNTED OC SENSOR LOCATED ON 1100 FLOOR FOR ACTIVATION OF 'PA48' FIXTURES.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

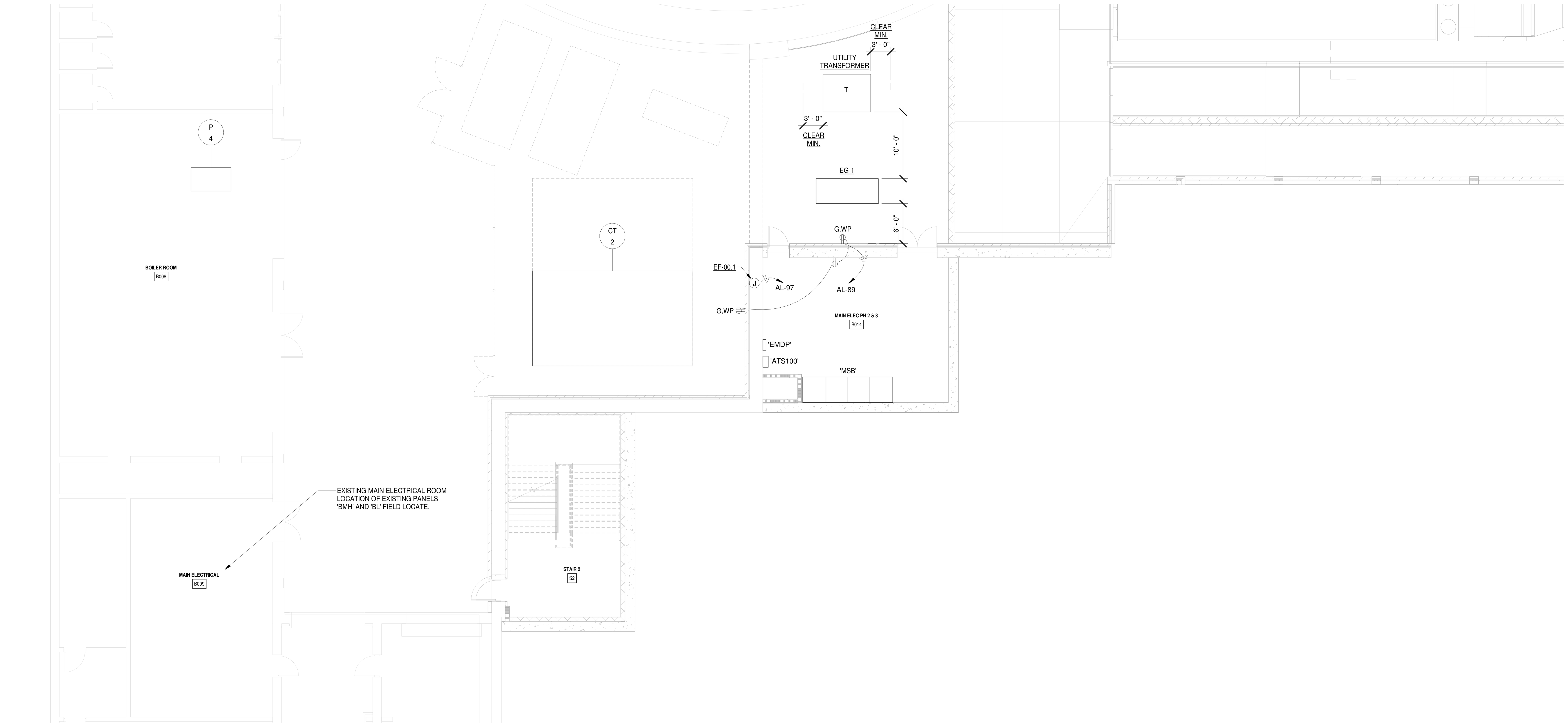
NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
LIGHTING PLAN - LEVEL 1200 - AREA 'C'

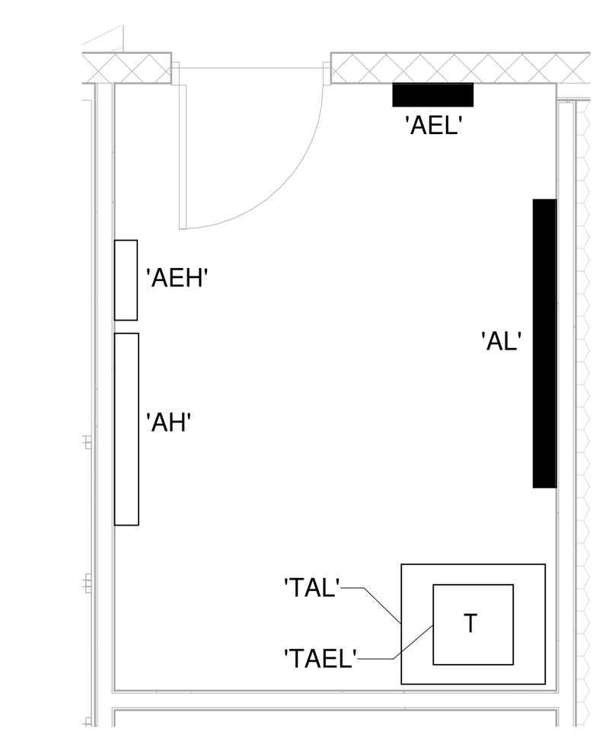
SHEET NO.
E208

PROJ. NO.
020420.00

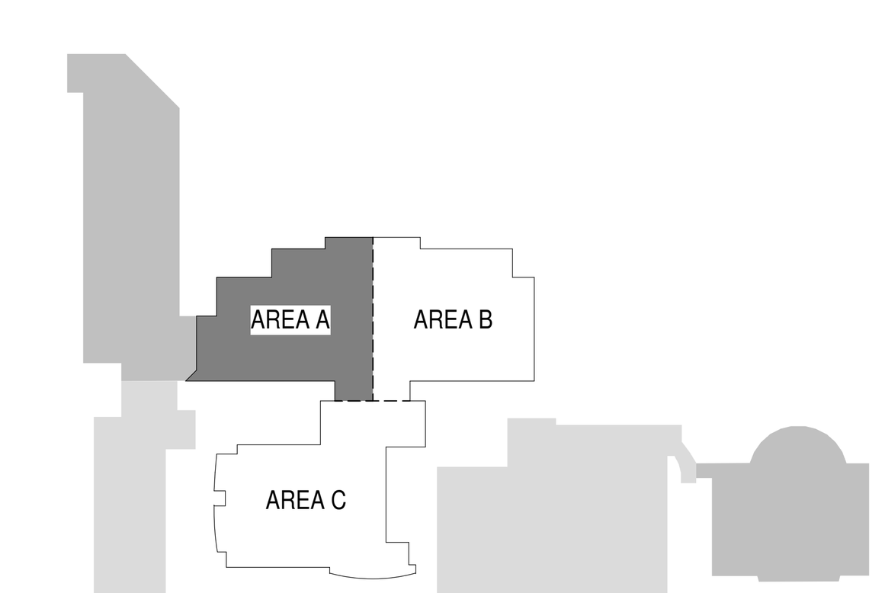


1 POWER PLAN - BASEMENT
1/8" = 1'-0"

2 POWER PLAN - LEVEL 1000 - AREA 'A'
1/8" = 1'-0"



3 ENLARGED ELECTRICAL ROOM 1049
1/4" = 1'-0"



GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE PLAN AND OWNER PRIOR TO OUTLET BOX ROUGH-IN.
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

mcmillan pazdan smith
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

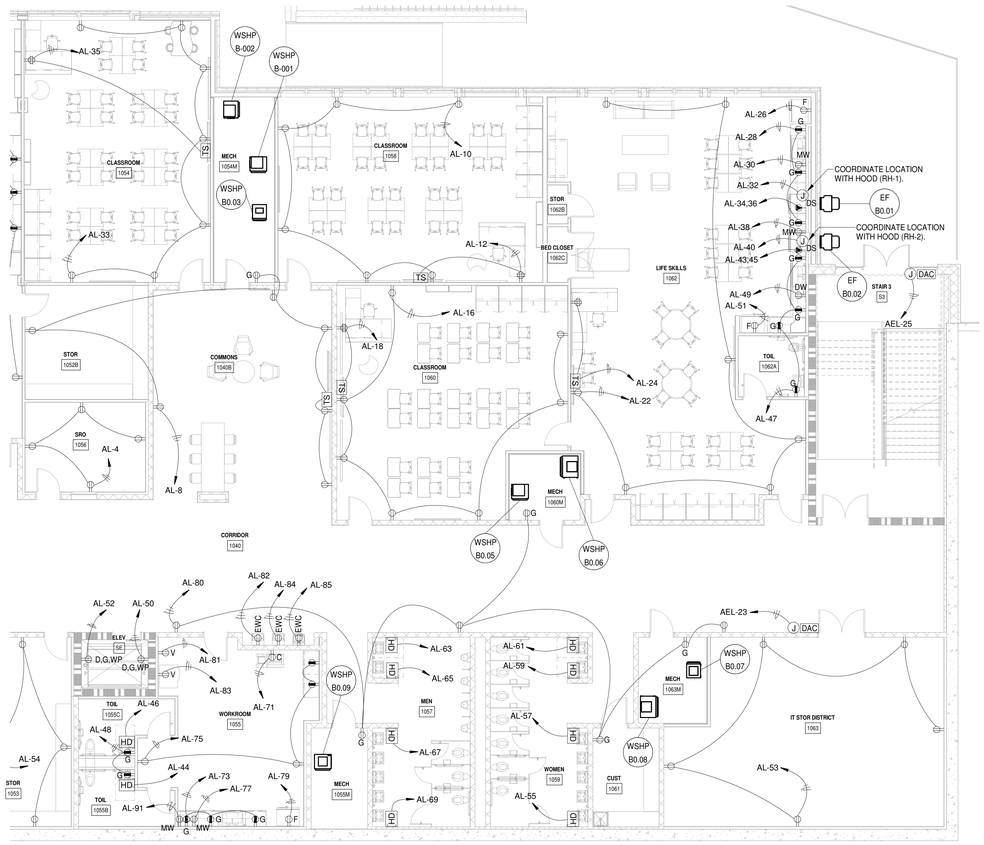
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

POWER PLAN - BASEMENT & LEVEL 1000 - AREA 'A'

SHEET NO. E301

PROJ. NO. 020420.00



1 POWER PLAN - LEVEL 1000 - AREA 'B'
1/8" = 1'-0"

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE PLAN AND OWNER PRIOR TO OUTLET BOX ROUGH-IN.
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

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CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

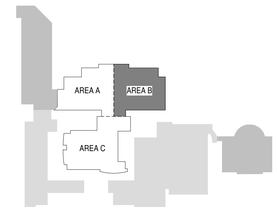
SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

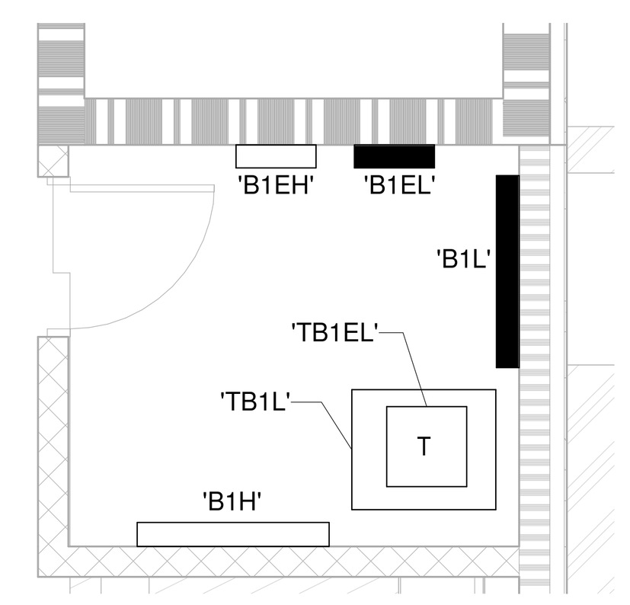
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
POWER PLAN - LEVEL 1000 - AREA 'B'



SHEET NO. E302

PROJ. NO. 020420.00

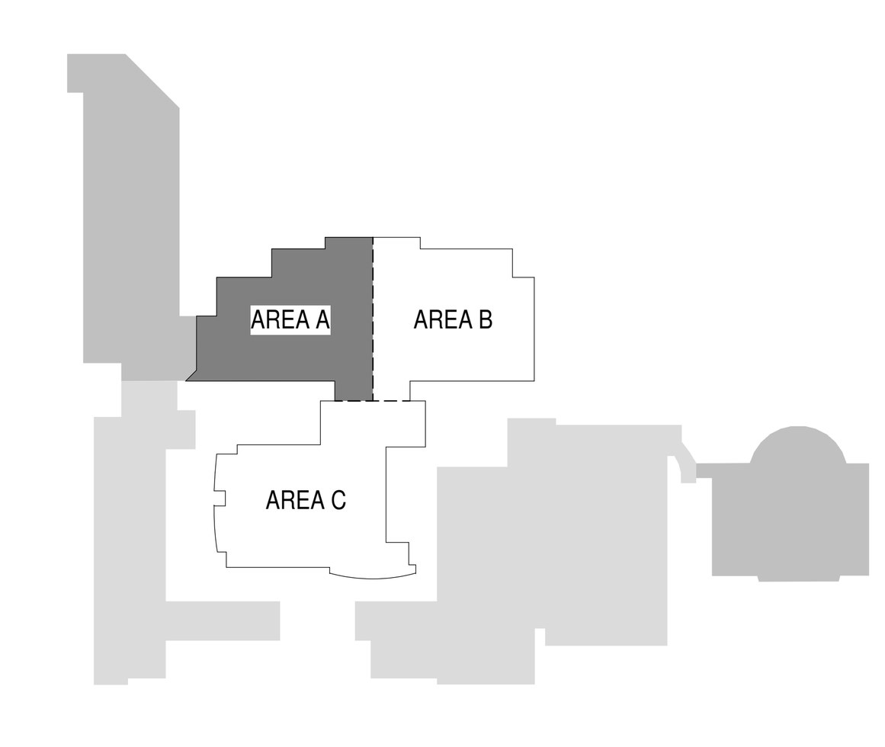


2 ENLARGED ELECTRICAL ROOM 1147A
1/4" = 1'-0"

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE PLAN AND OWNER PRIOR TO OUTLET BOX ROUGH-IN.
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

1 POWER PLAN - LEVEL 1100 - AREA 'A'
1/8" = 1'-0"



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

CES
CAROLINA ENGINEERING SOLUTIONS, LLC

SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

POWER PLAN - LEVEL 1100 - AREA 'A'

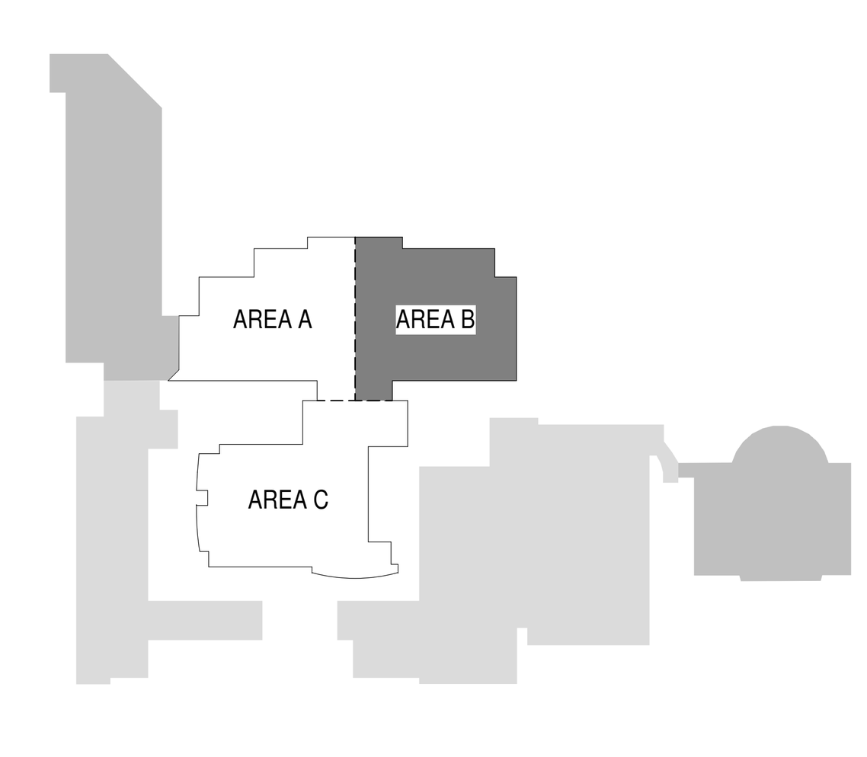
SHEET NO. PROJ. NO. 020420.00

E303

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE PLAN AND OWNER PRIOR TO OUTLET BOX ROUGH-IN.
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

1 POWER PLAN - LEVEL 1100 - AREA 'B'
1/8" = 1'-0"



mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

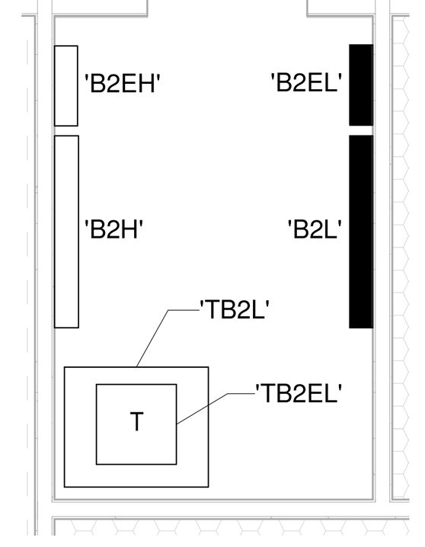
NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
POWER PLAN - LEVEL 1100 - AREA 'B'

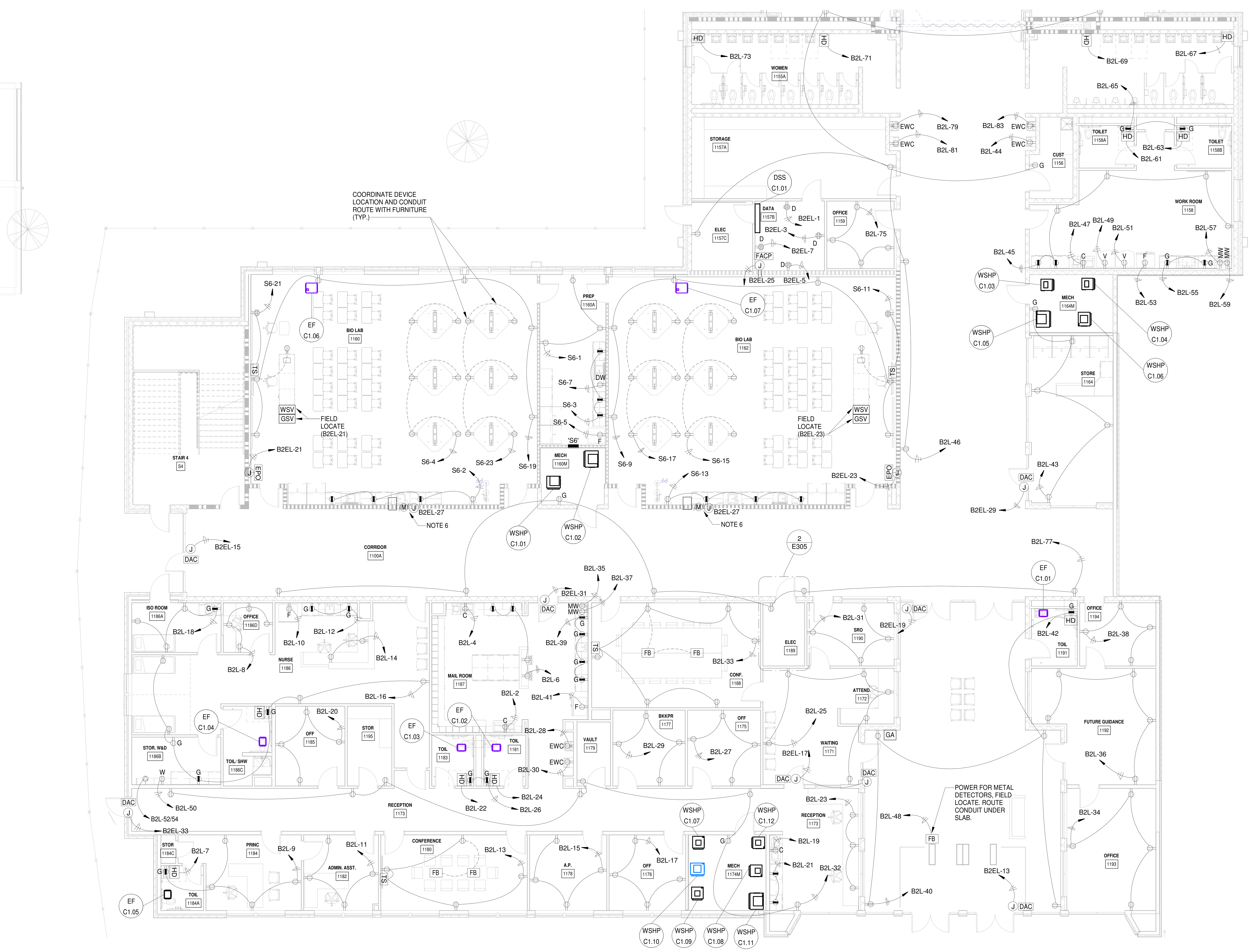
SHEET NO. E304
PROJ. NO. 020420.00



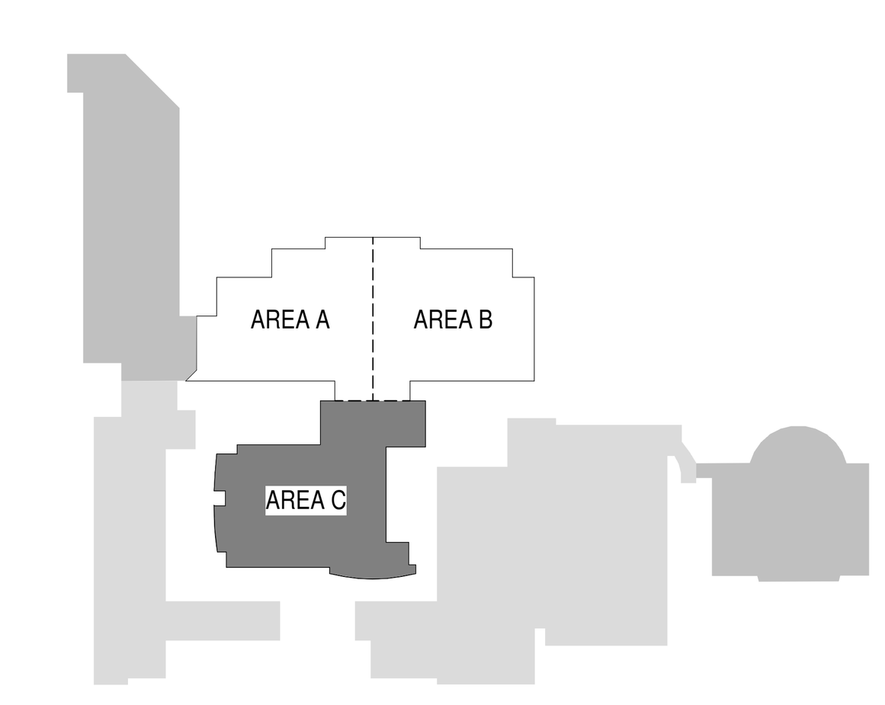
2 ENLARGED ELECTRICAL ROOM 1189
1/4" = 1'-0"

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE PLAN AND OWNER PRIOR TO OUTLET BOX ROUGH-IN.
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.



1 POWER PLAN - LEVEL 1100 - AREA 'C'
1/8" = 1'-0"



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

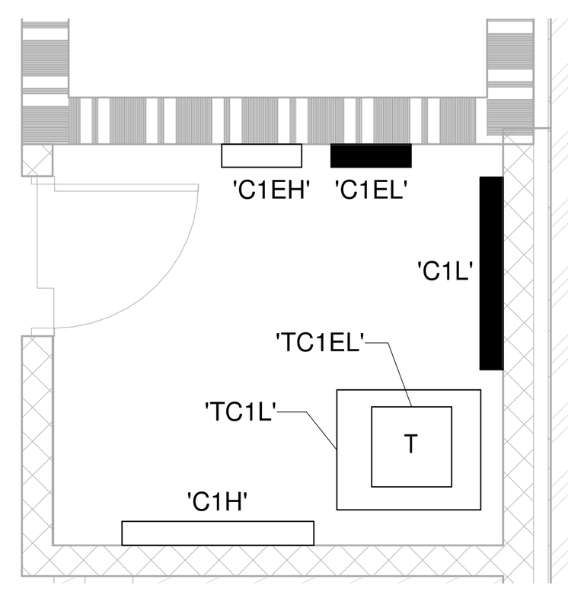
NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
POWER PLAN - LEVEL 1100 - AREA 'C'

SHEET NO. PROJ. NO. 020420.00

E305



2 ENLARGED ELECTRICAL ROOM 1240
1/4" = 1'-0"

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
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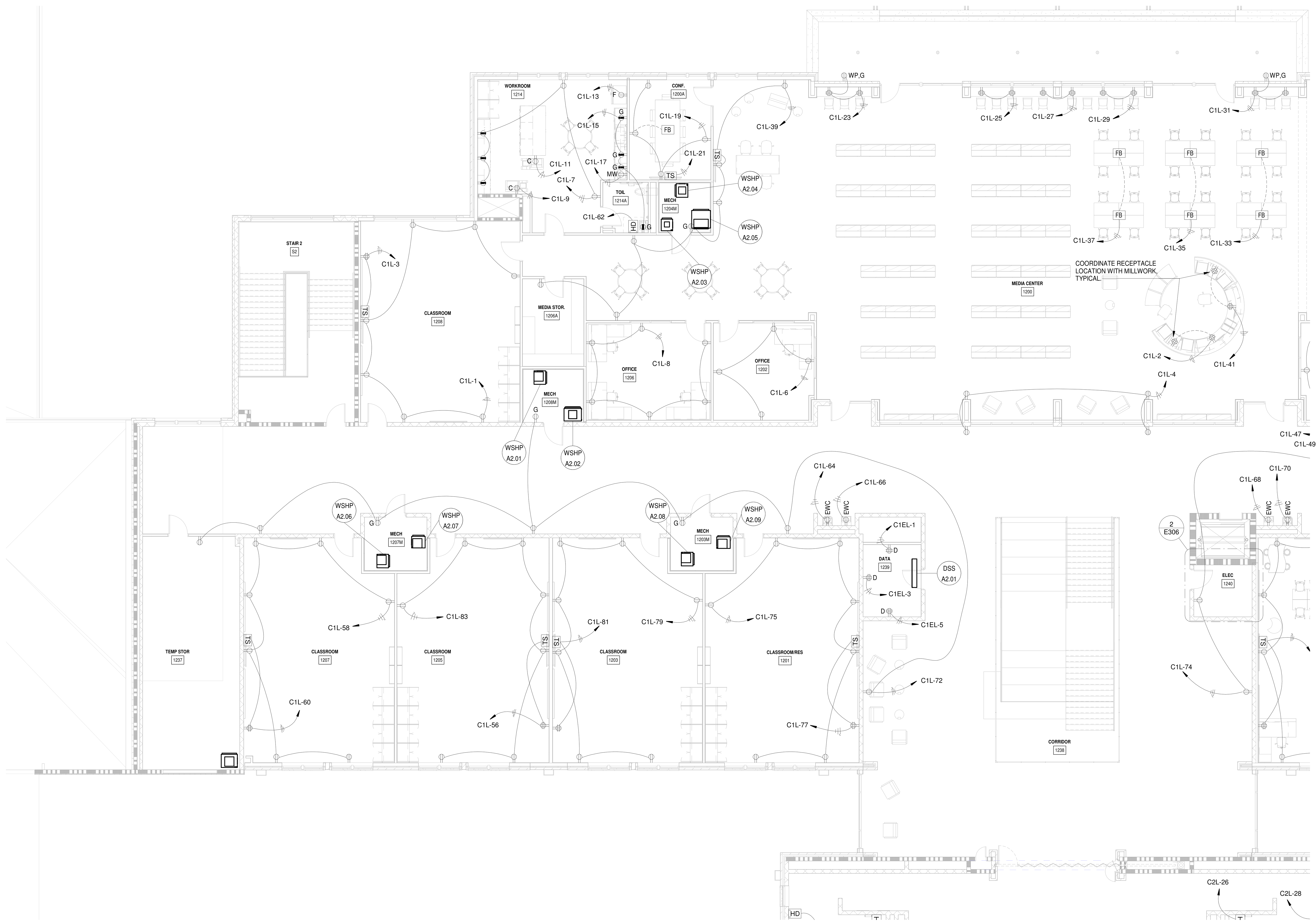
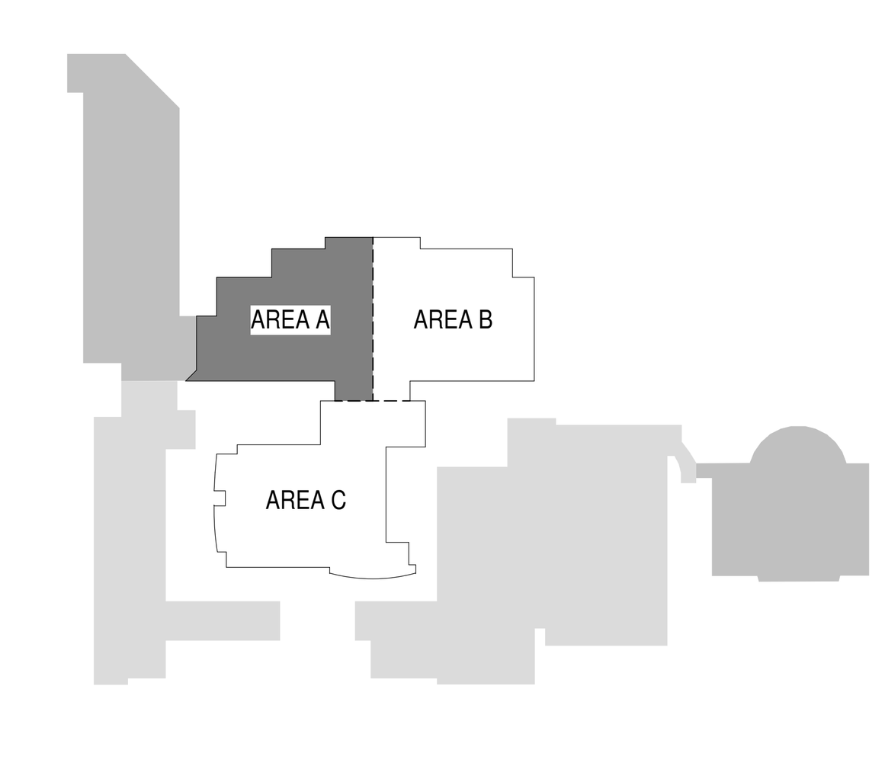
3. ALL RECEPTACLES WITH-IN 6'-0" OF A WATER SOURCE SHALL BE GFCI PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECT AND OTHER TRADES PRIOR TO ANY INSTALLATION. NO DEVICE SHALL BE INSTALLED IN SUCH A WAY AS TO HAVE IT'S OPERATION CONCEALED OR OBSTRUCTED BY OTHER EQUIPMENT IN THE VICINITY.
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.



1 POWER PLAN - LEVEL 1200 - AREA 'A'
1/8" = 1'-0"



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
POWER PLAN - LEVEL 1200 - AREA 'A'

SHEET NO. E306
PROJ. NO. 020420.00

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
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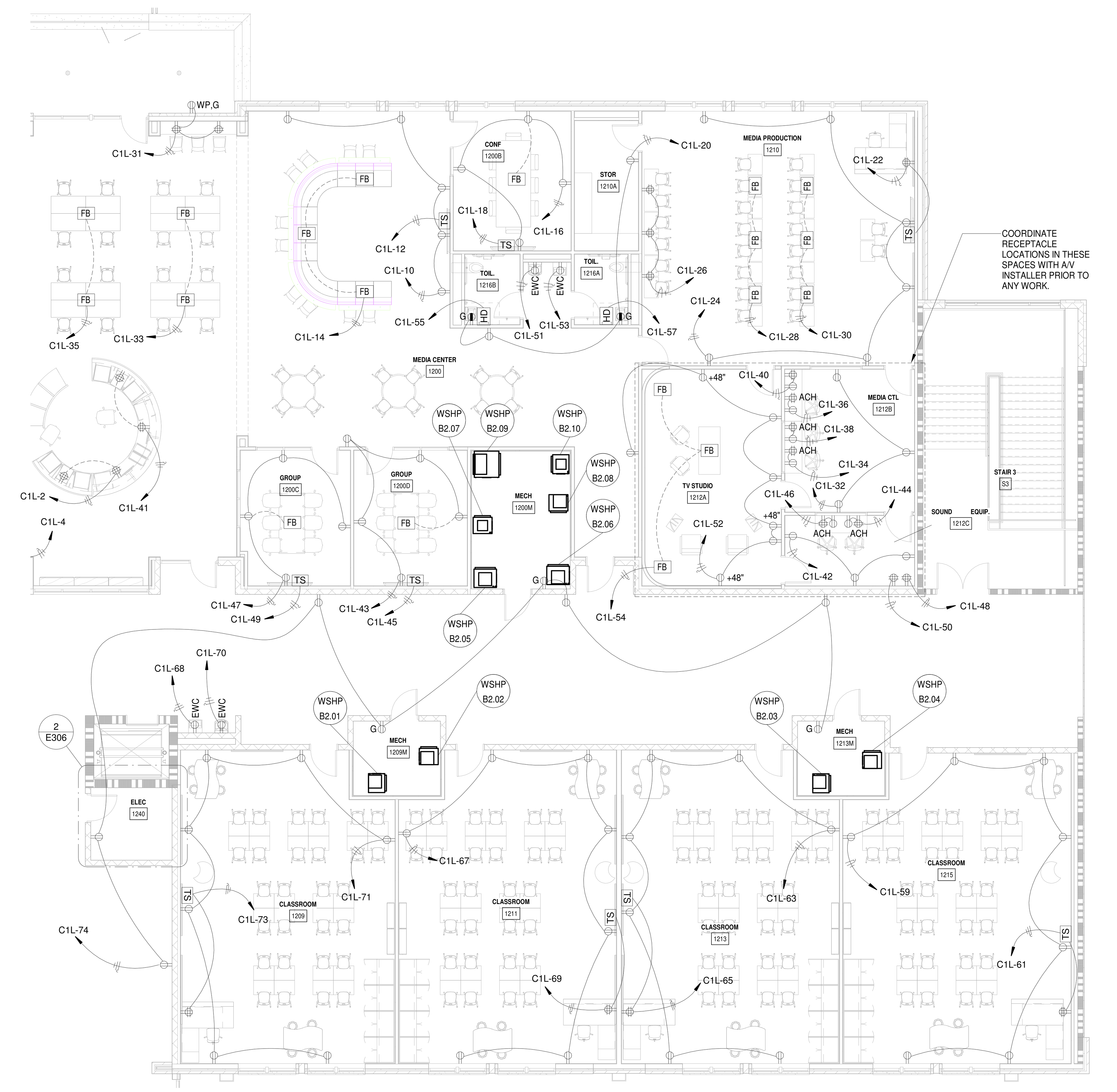
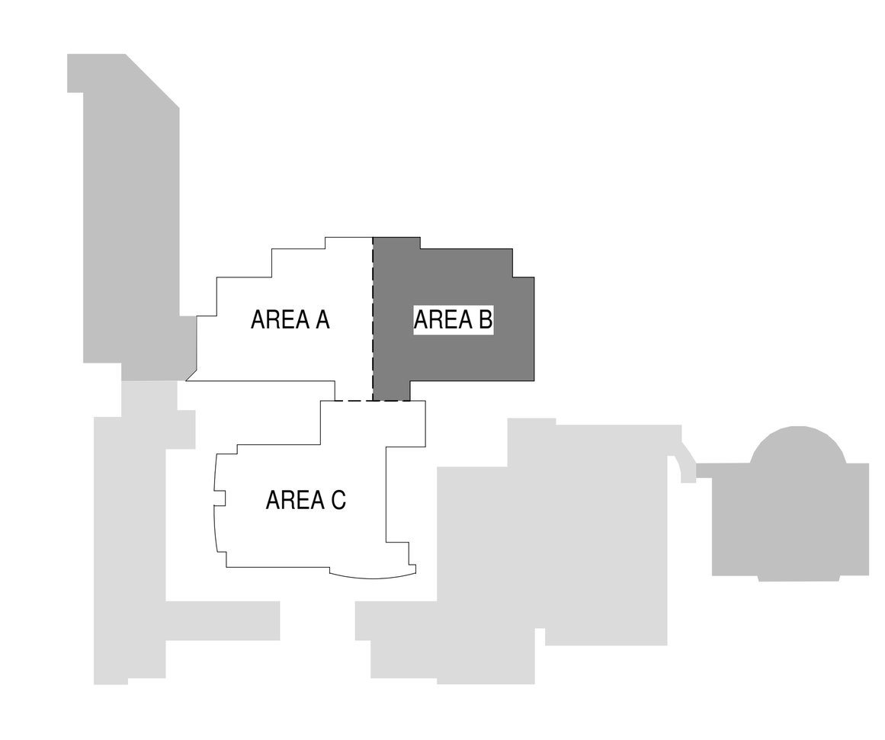
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.



1 POWER PLAN - LEVEL 1200 - AREA 'B'
1/8" = 1'-0"



mcmillan pazdan smith
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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

POWER PLAN - LEVEL 1200 - AREA 'B'

SHEET NO. E307

PROJ. NO. 020420.00

6/1/2022 8:43:57 AM BIM 360://020420.00_Byrnes HS - Phase 2/Elec_Byrnes HS_Phase 2_R21.rvt

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
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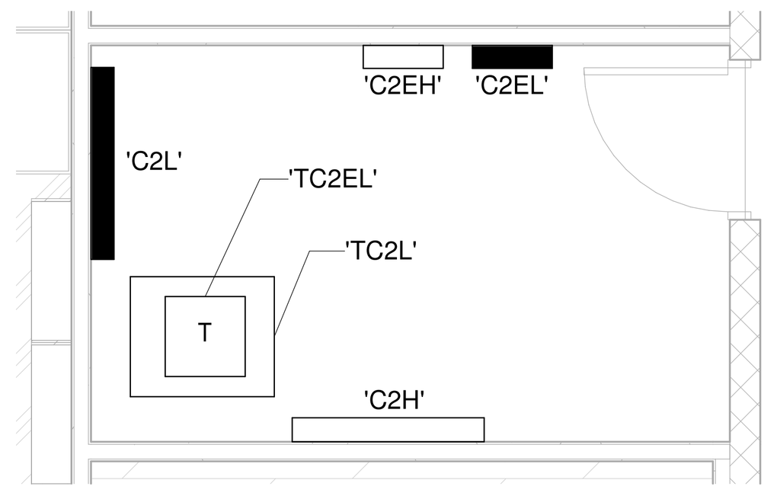
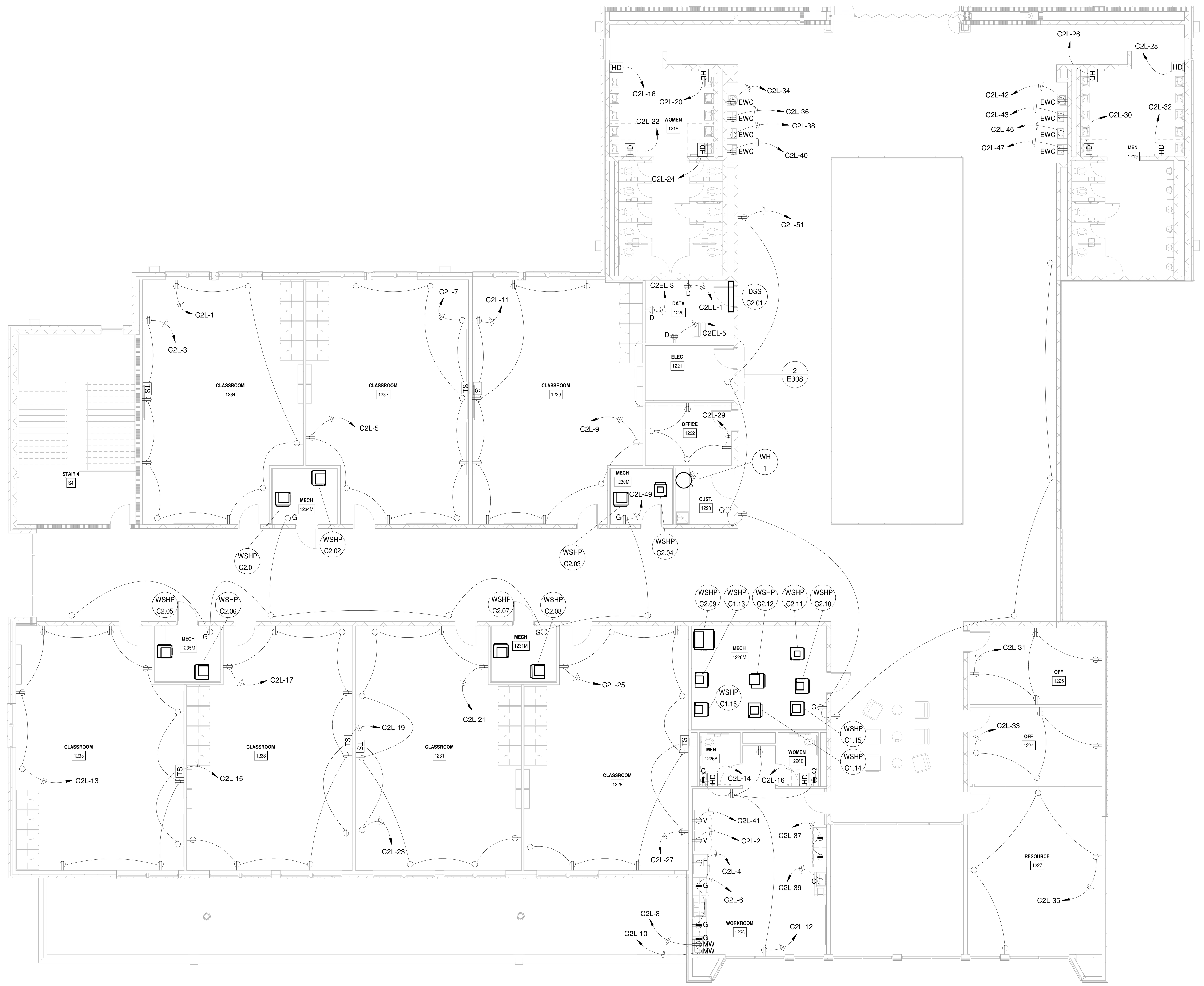
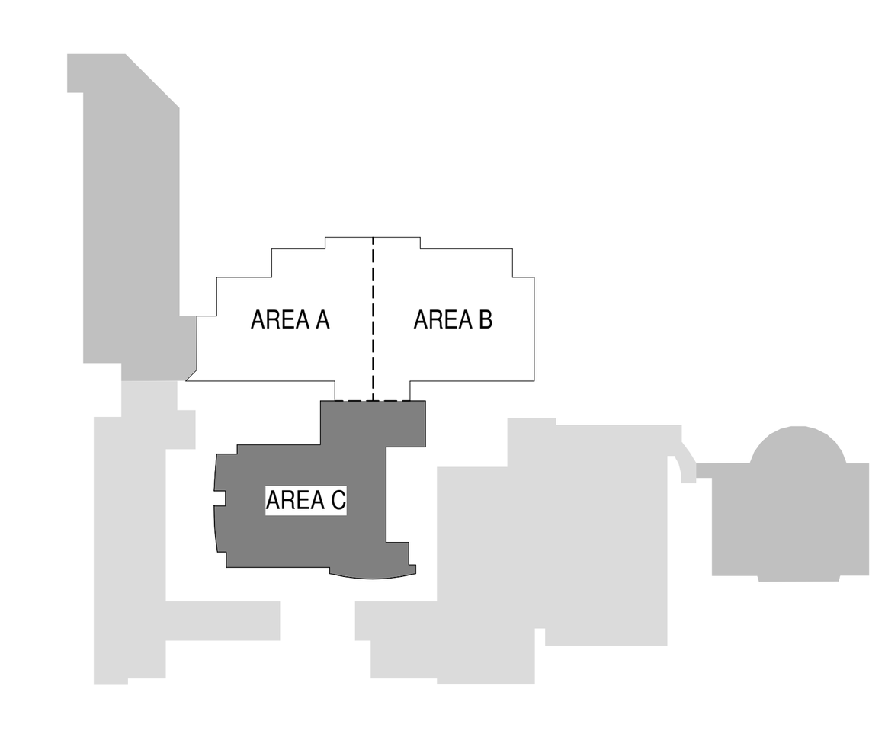
5. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.



2 ENLARGED ELECTRICAL ROOM 1221
1/4" = 1'-0"



1 POWER PLAN - LEVEL 1200 - AREA 'C'
1/8" = 1'-0"



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ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

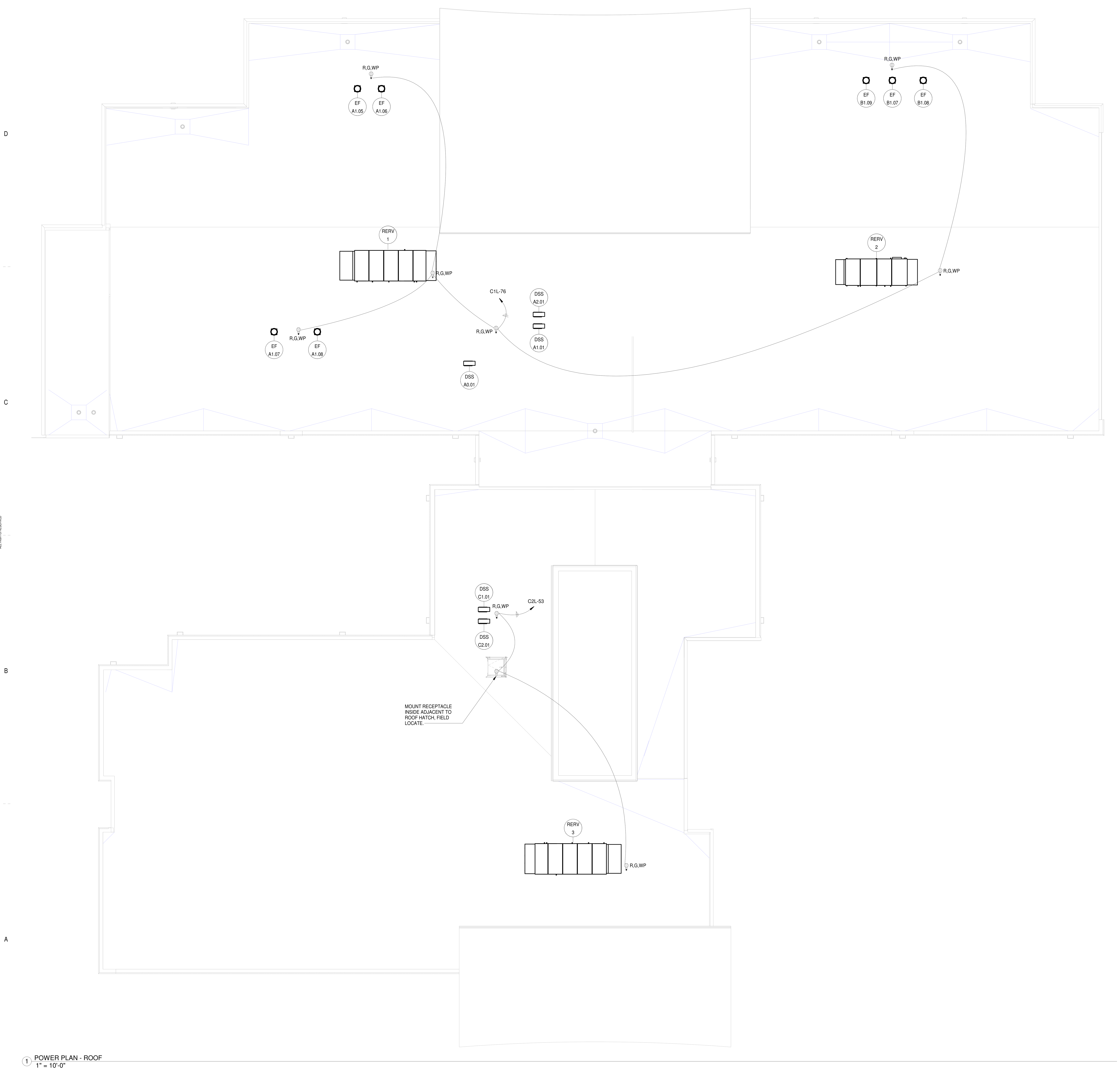
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

POWER PLAN - LEVEL 1200 - AREA 'C'

SHEET NO. E308

PROJ. NO. 020420.00



1 POWER PLAN - ROOF
1" = 10'-0"

GENERAL PLAN NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ROUTE 2#12,#12G-3/4"C TO EACH BRANCH CIRCUIT, UNLESS NOTED OTHERWISE. IF THE LENGTH EXCEEDS 75'-0", CONTRACTOR SHALL ROUTE 2#10,#10G-3/4"C FOR EACH BRANCH CIRCUIT. ELECTRICAL CONTRACTOR MAY RUN UP TO (3) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
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6. PROVIDE POWER FOR MOTORIZED SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.

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ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

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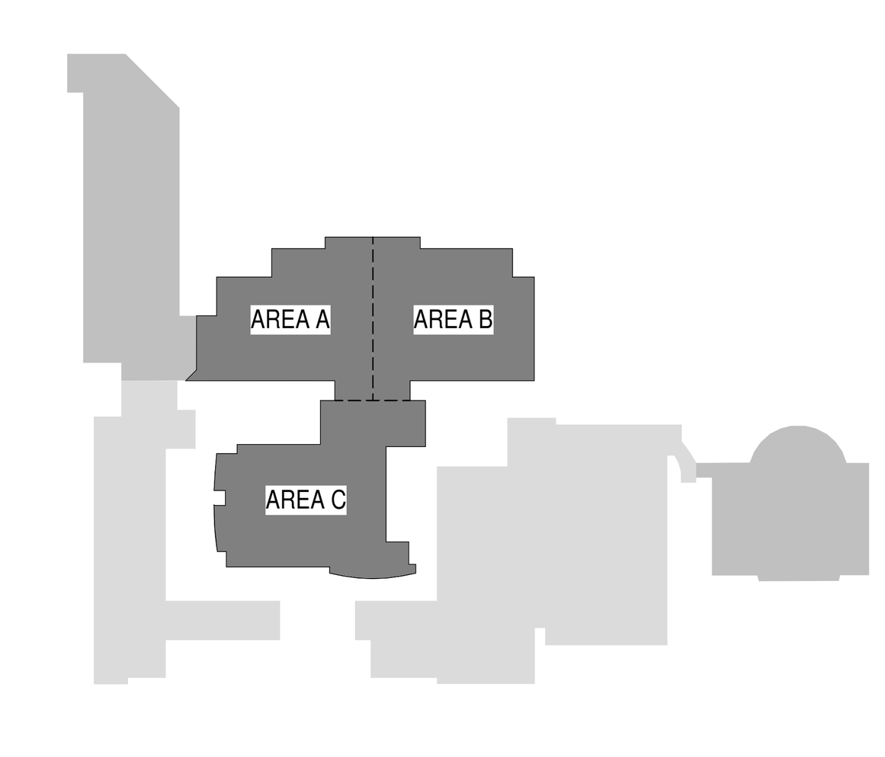
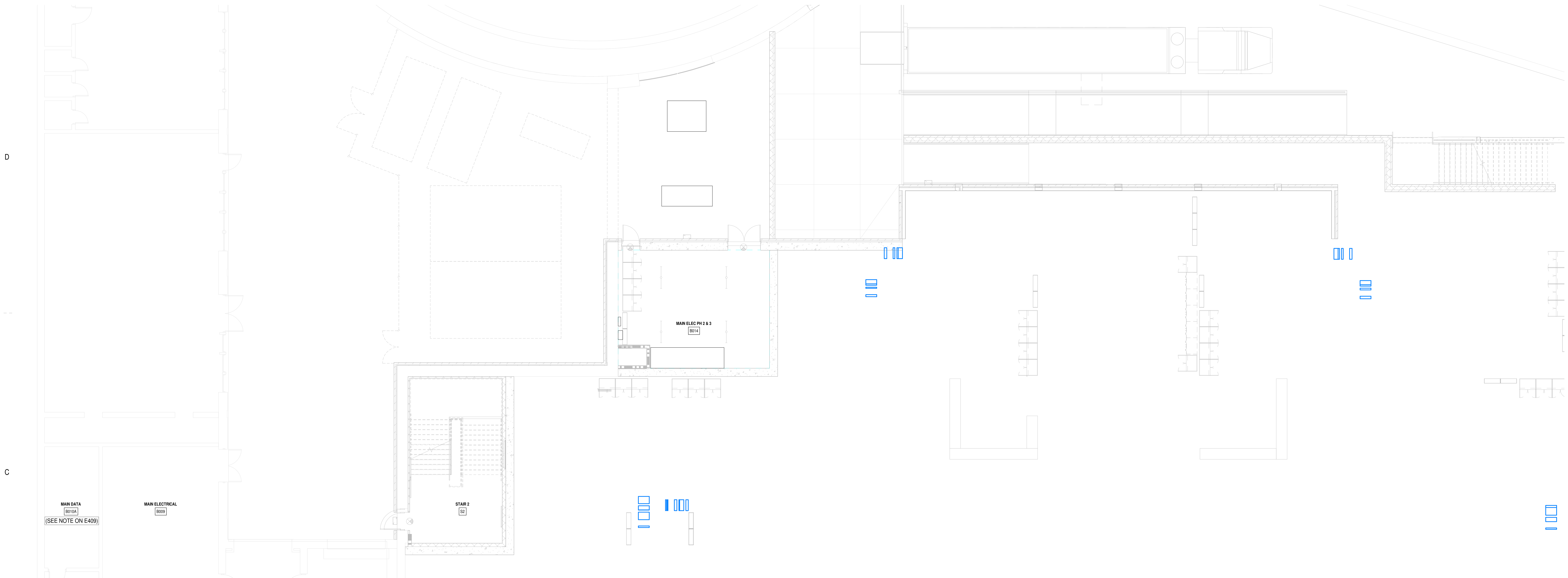


PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
POWER PLAN - ROOF

SHEET NO.
E309

PROJ. NO.
020420.00



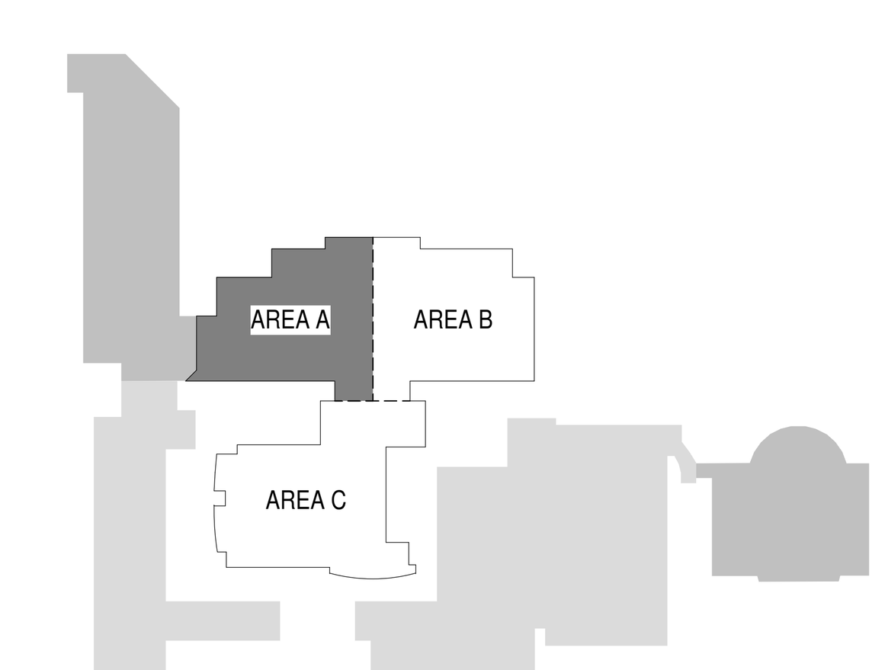
2 SPECIAL SYSTEMS PLAN - BASEMENT
1/8" = 1'-0"

1 SPECIAL SYSTEMS PLAN - LEVEL 1000 - AREA 'A'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.



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pazdan
smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
SPECIAL SYSTEMS PLAN - BASEMENT & LEVEL 1000 - AREA 'A'

PROJ. NO. 020420.00

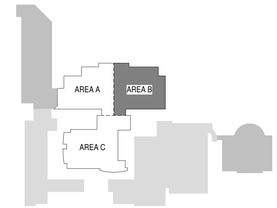
E401

1 SPECIAL SYSTEMS PLAN - LEVEL 1000 - AREA 'B'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1000 - AREA 'B'

SHEET NO.

E402

PROJ. NO.
020420.00

1 SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'A'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
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PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

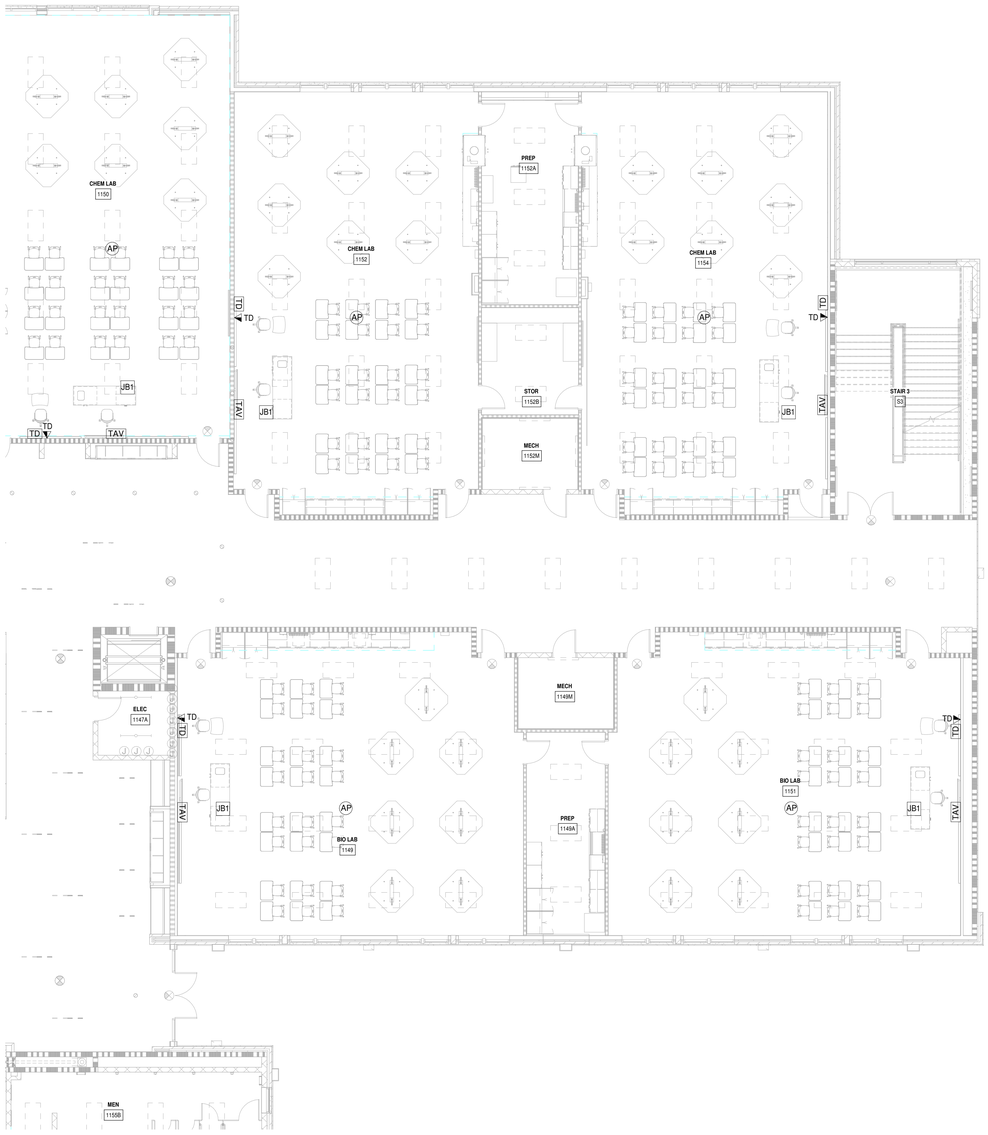
SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'A'

SHEET NO.

E403

PROJ. NO.
020420.00



1 SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'B'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.

mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'B'

SHEET NO. E404

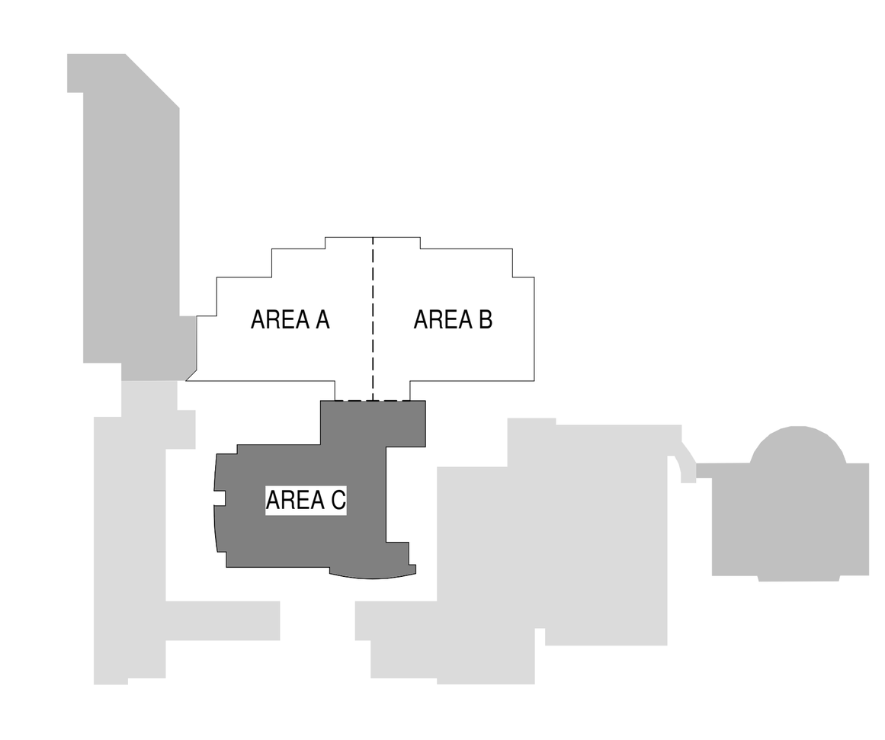
PROJ. NO. 020420.00

SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'C'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

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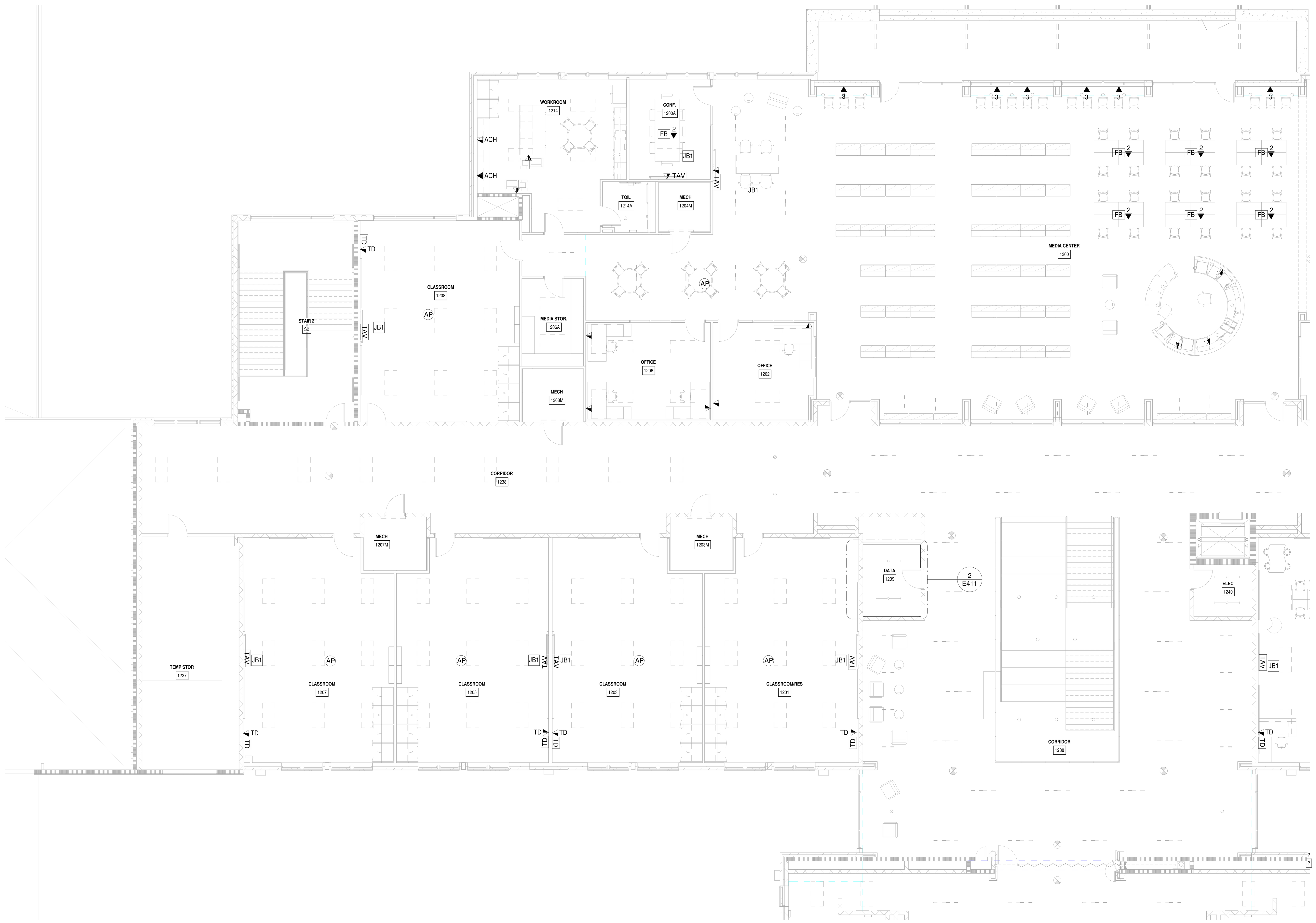
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1100 - AREA 'C'

SHEET NO. E405

PROJ. NO. 020420.00



1 SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'A'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

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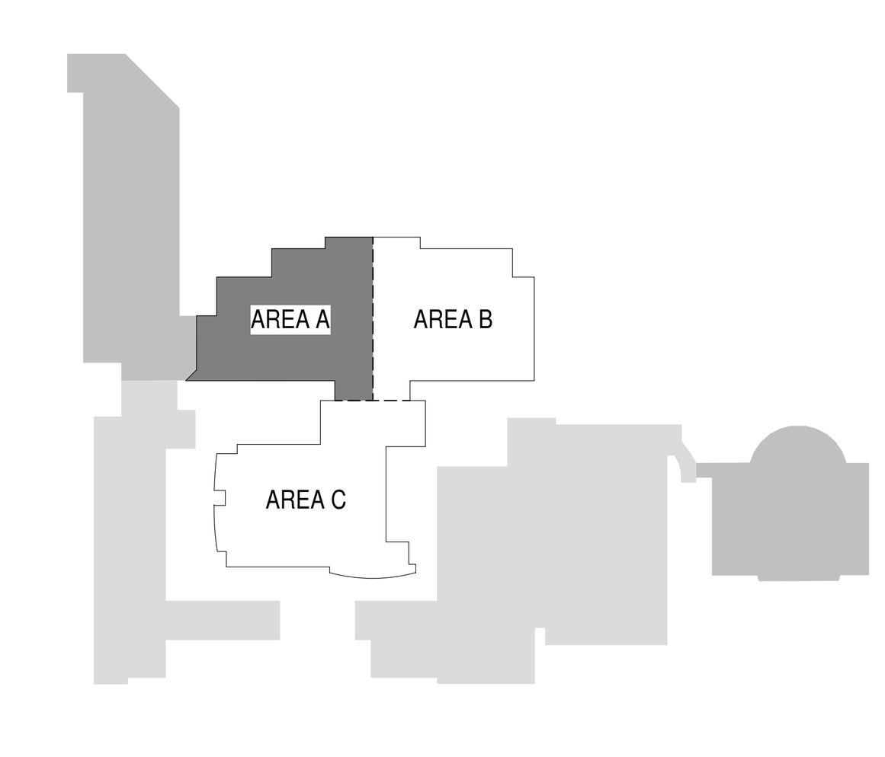
2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
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PRINCIPAL IN ENGINEER: JDJ
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DRAWN BY: REA/LHO

SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'A'

SHEET NO. E406

PROJ. NO. 020420.00

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pazdan
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CONSULTANT LOGO

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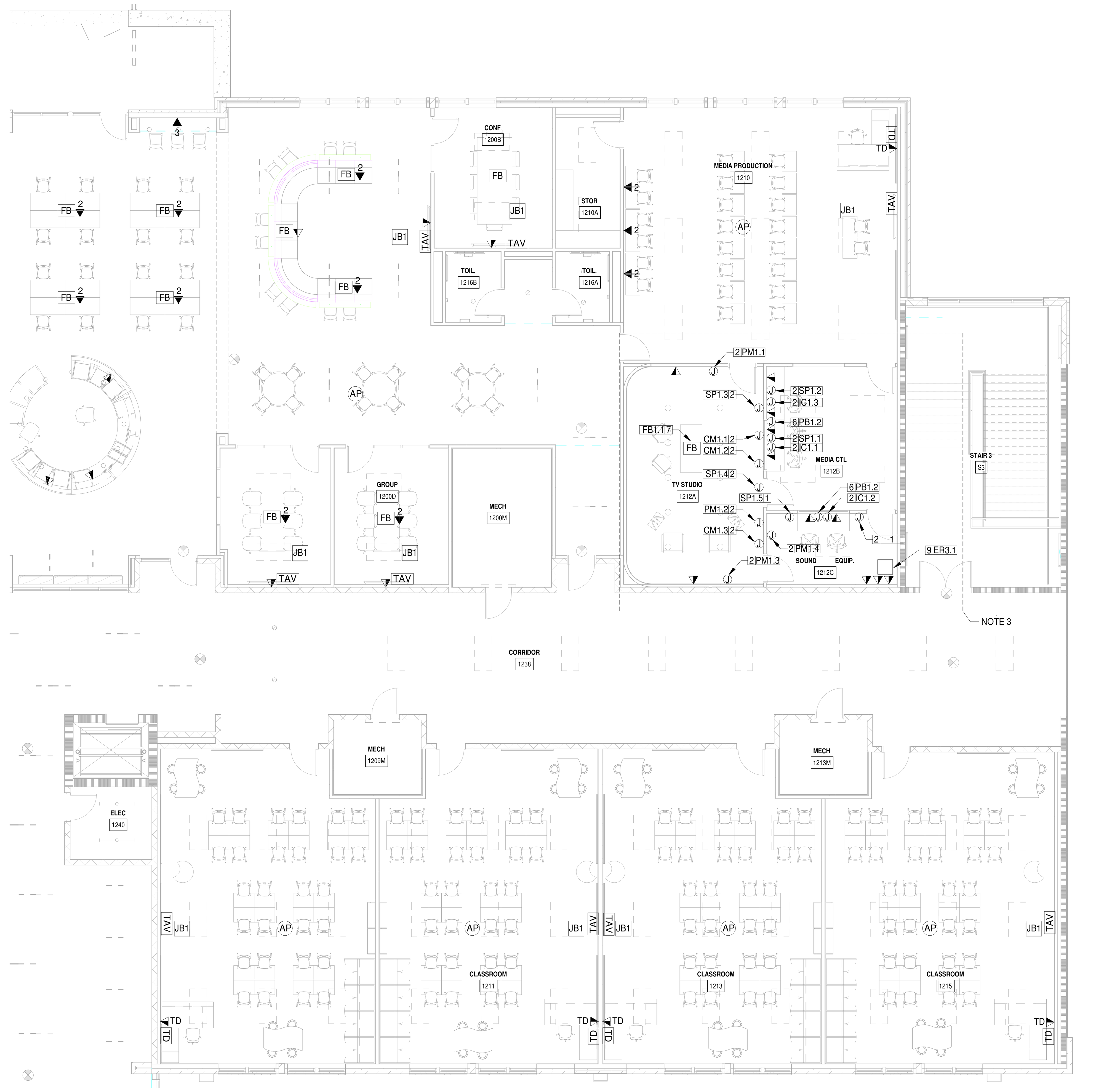
SEALS



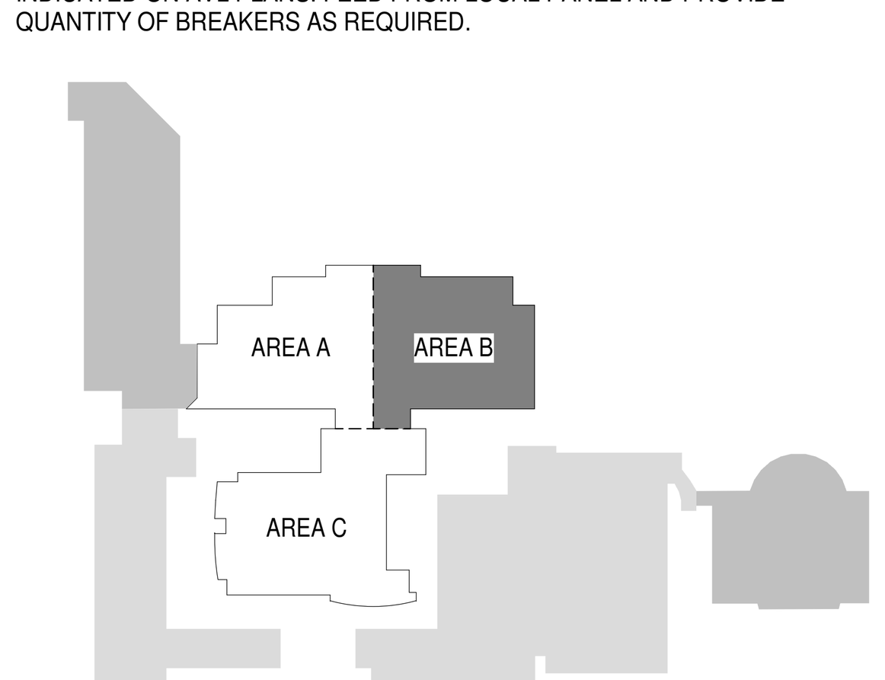
SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'B'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.

3. SEE AVL DRAWINGS FOR DETAILED INFORMATION IN THIS AREA INCLUDING BUT NOT LIMITED TO: POWER, LIGHTING, LOW VOLTAGE, AND RACEWAY REQUIREMENTS. ADDITIONAL POWER AND LIGHTING CIRCUITS INDICATED ON AVL PLANS. FEED FROM LOCAL PANEL AND PROVIDE QUANTITY OF BREAKERS AS REQUIRED.



SPARTANBURG COUNTY SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

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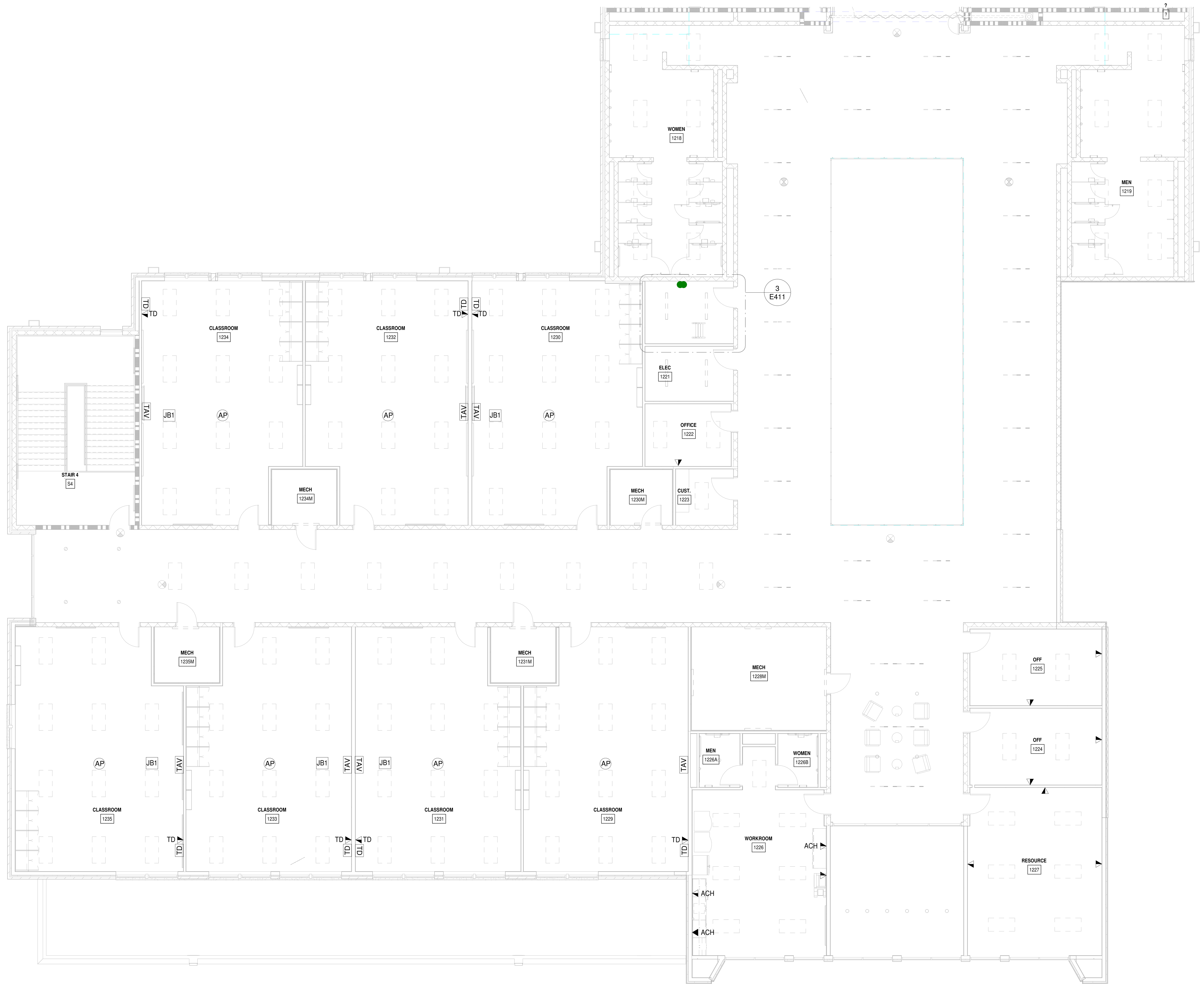
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'B'

SHEET NO. E407
PROJ. NO. 020420.00

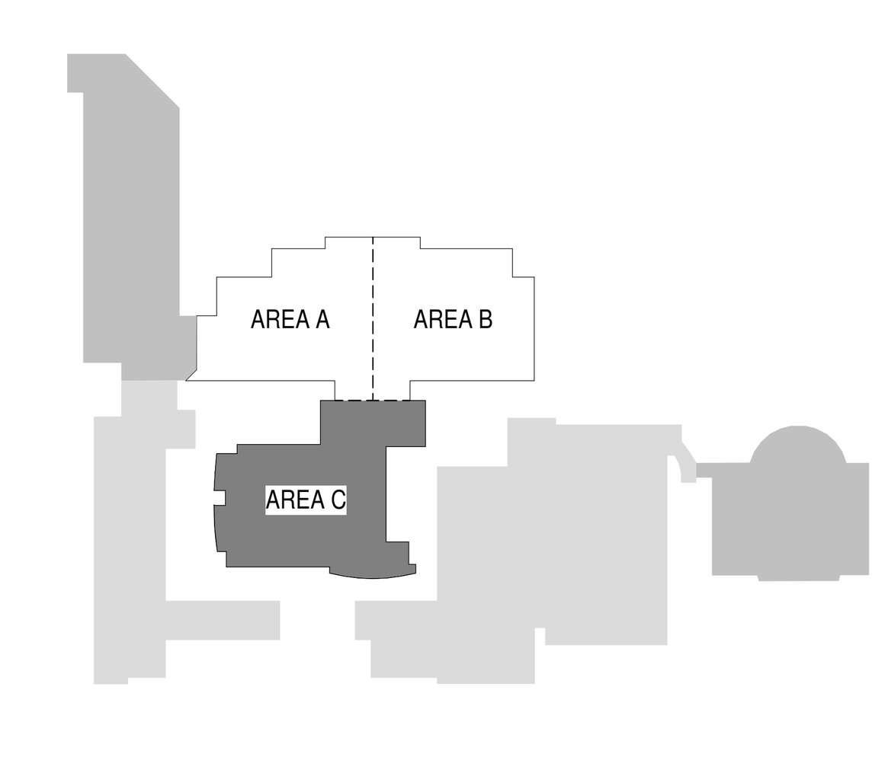


1 SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA'C'
1/8" = 1'-0"

SPECIAL SYSTEMS NOTES:

1. LOCATE DATA OUTLET WITHIN 12" OF CORRESPONDING RECEPTACLE SHOWN ON POWER DRAWINGS.

2. VERIFY DEVICE LAYOUT WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

SPECIAL SYSTEMS PLAN - LEVEL 1200 - AREA 'C'

SHEET NO. E408

PROJ. NO. 020420.00

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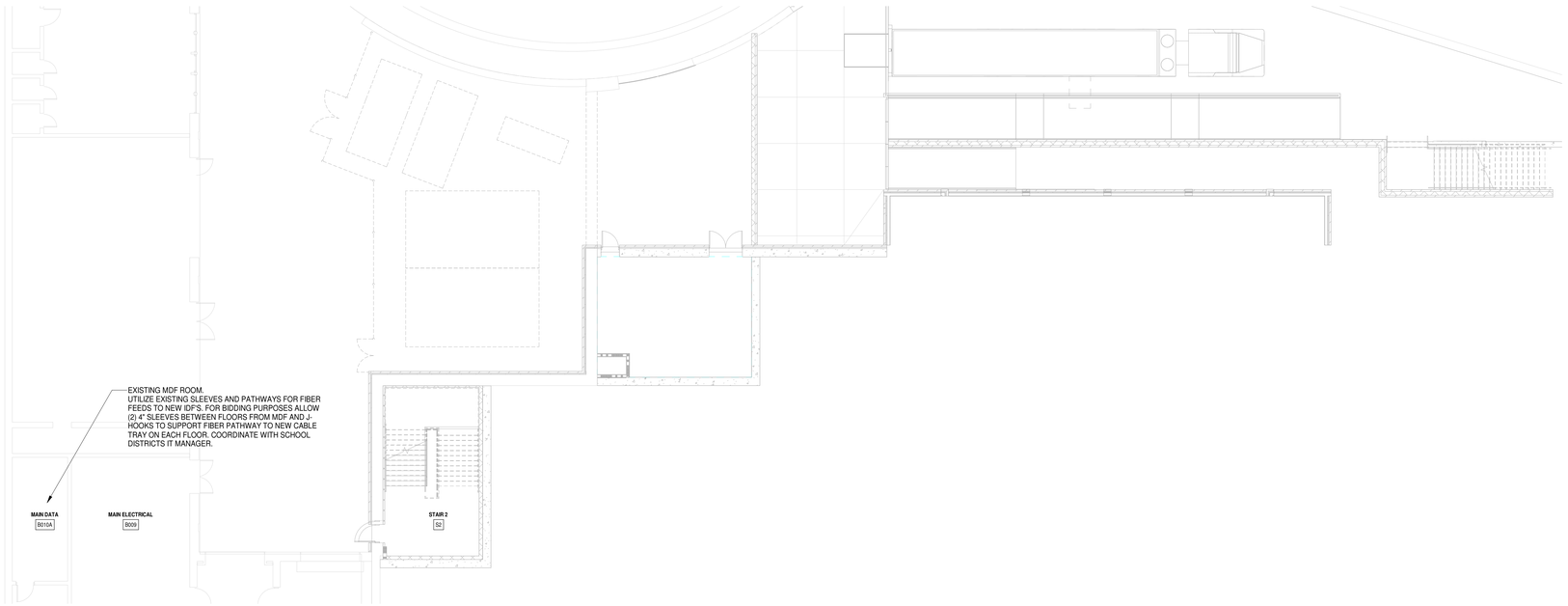
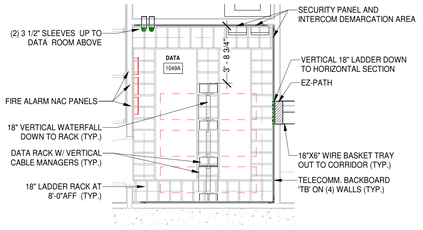


2 CABLE TRAY & IDF PLAN - BASEMENT LEVEL - OVERALL
3/32" = 1'-0"



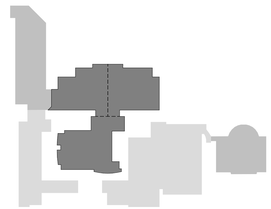
3 ENLARGED DATA ROOM 1049A
1/4" = 1'-0"

1 CABLE TRAY & IDF PLAN - LEVEL 1000 - OVERALL
3/32" = 1'-0"

OVERALL CABLE TRAY NOTES:

1. FIELD COORDINATE CABLE TRAY ROUTING AND MOUNTING HEIGHTS WITH OTHER TRADES.

2. SEE ARCHITECTURAL PLANS FOR RATED WALLS & FIRE WALL DETAIL '1' ON SHEET E114 FOR EZ-PATH TO BE USED.



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JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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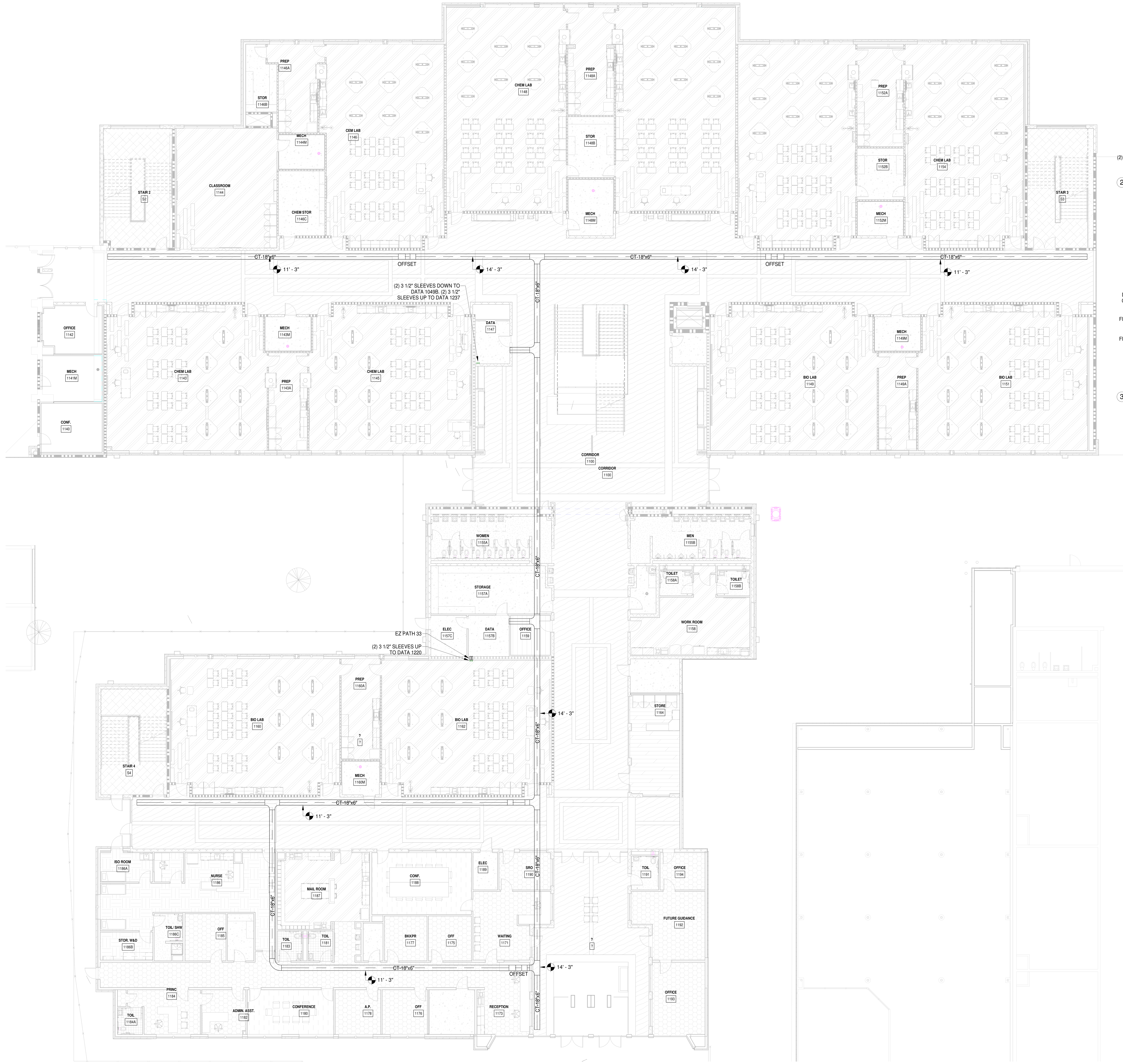
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

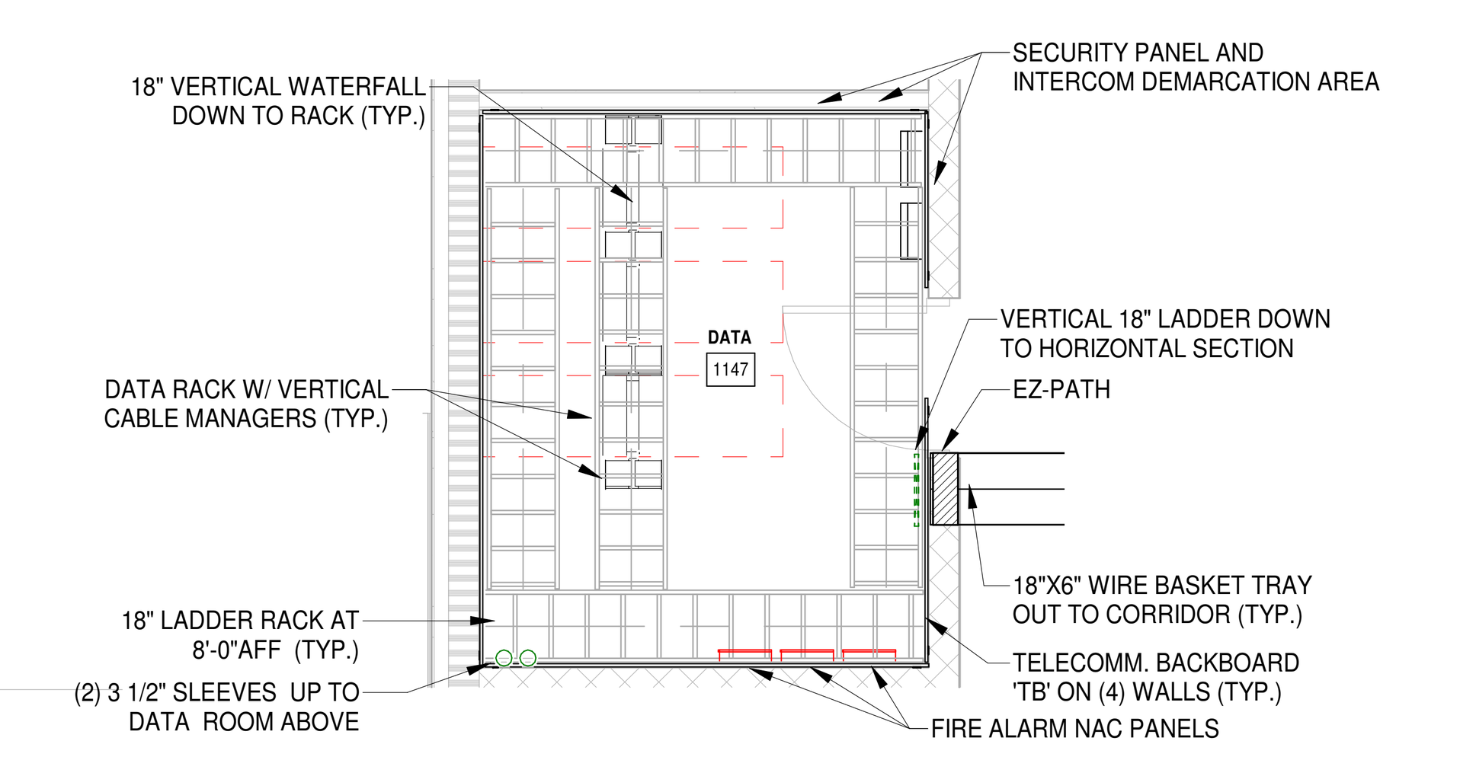
SHEET TITLE:
CABLE TRAY & IDF PLAN - LEVEL 1000

SHEET NO.
E409

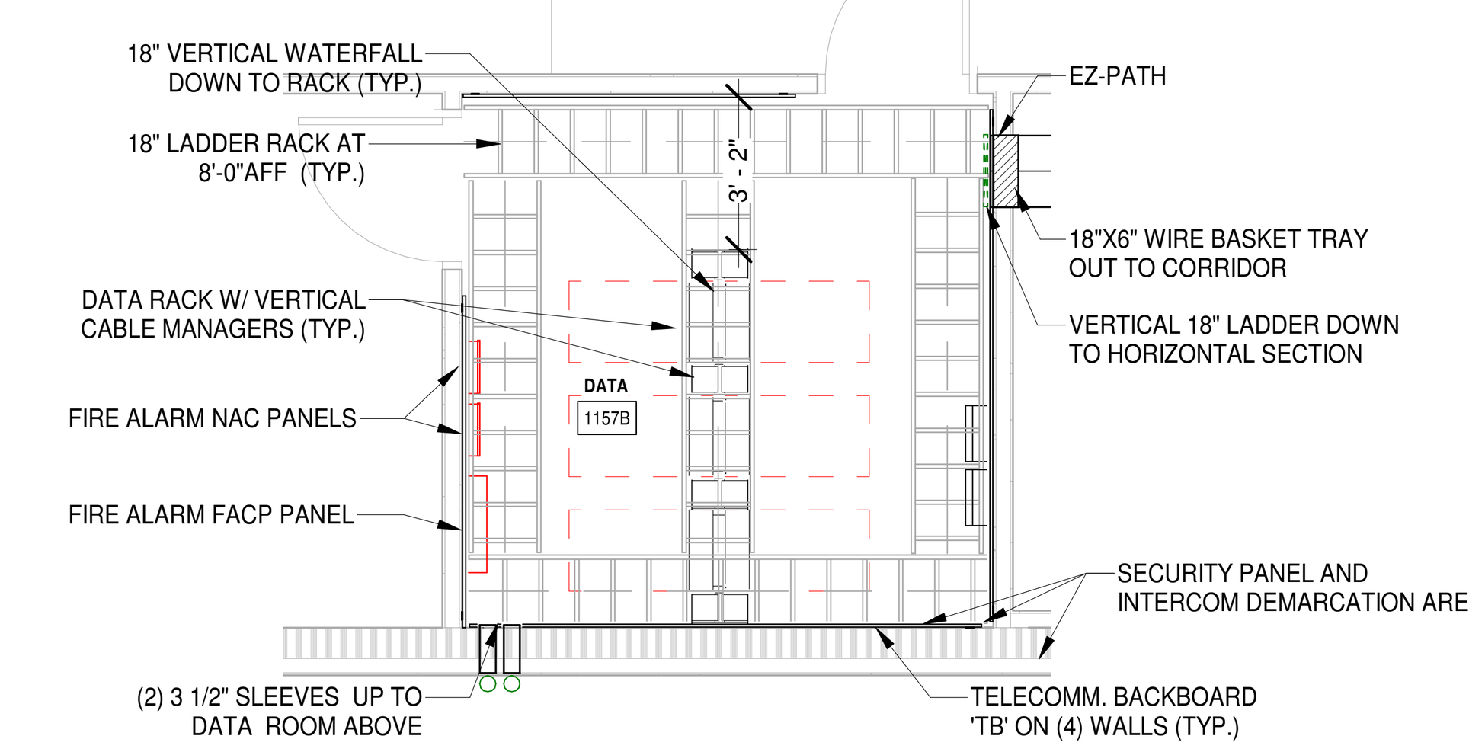
PROJ. NO.
020420.00



1 CABLE TRAY & IDF PLAN - LEVEL 1100 - OVERALL
3/32" = 1'-0"



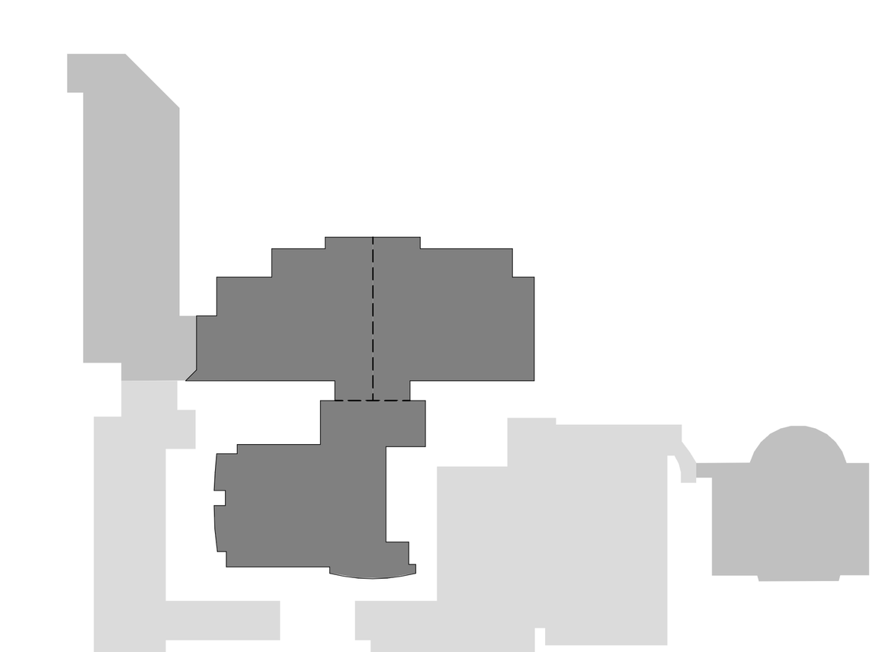
2 ENLARGED DATA ROOM 1147
1/4" = 1'-0"



3 ENLARGED DATA ROOM 1157C
1/4" = 1'-0"

OVERALL CABLE TRAY NOTES:

1. FIELD COORDINATE CABLE TRAY ROUTING AND MOUNTING HEIGHTS WITH OTHER TRADES.
2. SEE ARCHITECTURAL PLANS FOR RATED WALLS & FIRE WALL DETAIL '1' ON SHEET E110 FOR EZ-PATH TO BE USED.



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JAMES F. BYRNES HIGH SCHOOL PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
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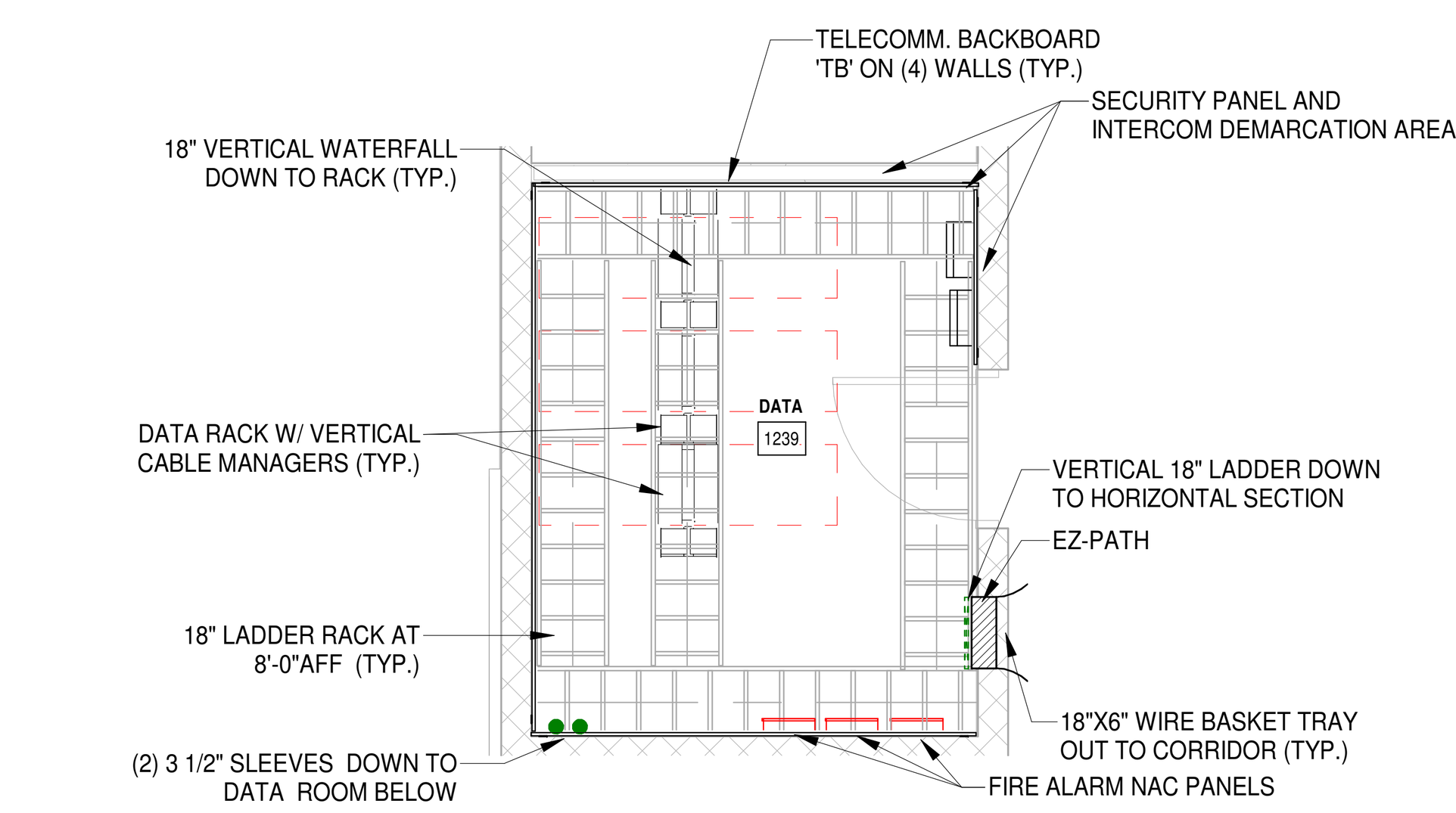
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

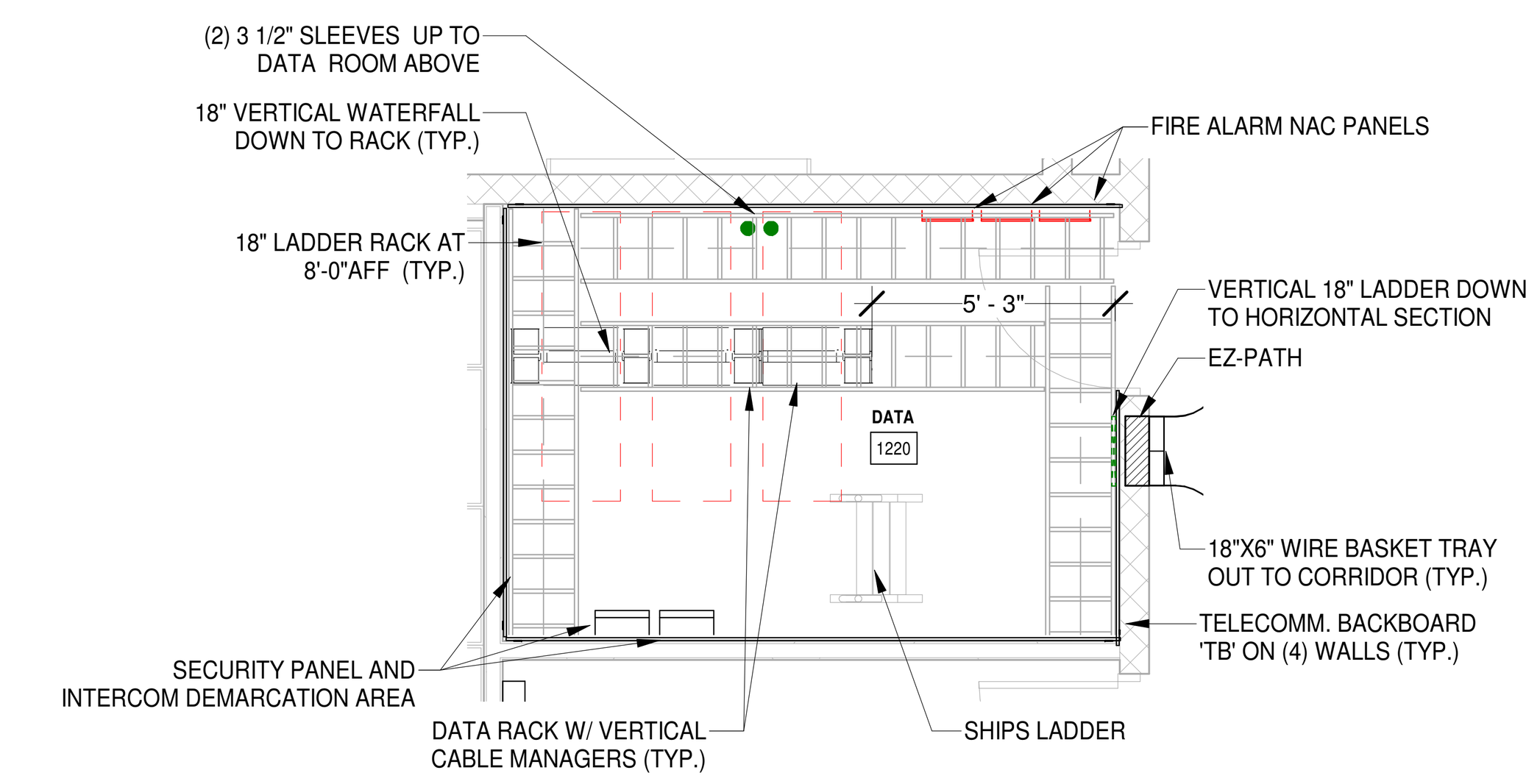
SHEET TITLE:
CABLE TRAY & IDF PLAN - LEVEL 1100

SHEET NO. E410
PROJ. NO. 020420.00

1 CABLE TRAY & IDF PLAN - LEVEL 1200 - OVERALL
3/32" = 1'-0"



2 ENLARGED DATA ROOM 1239
1/4" = 1'-0"



3 ENLARGED DATA ROOM 1220
1/4" = 1'-0"

OVERALL CABLE TRAY NOTES:

1. FIELD COORDINATE CABLE TRAY ROUTING AND MOUNTING HEIGHTS WITH OTHER TRADES.
2. SEE ARCHITECTURAL PLANS FOR RATED WALLS & FIRE WALL DETAIL '1' ON SHEET E110 FOR EZ-PATH TO BE USED.

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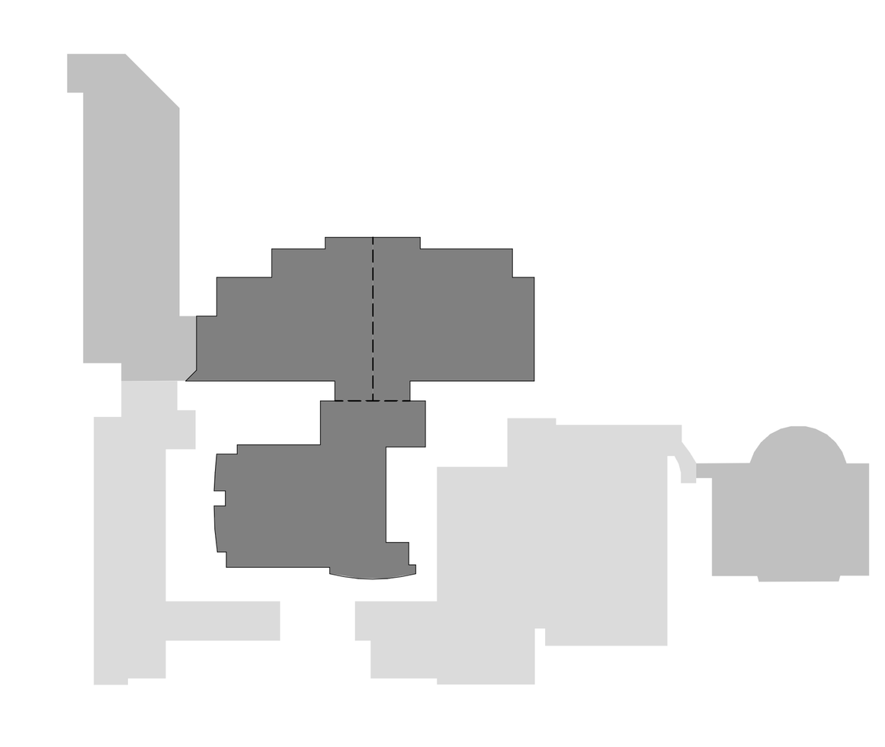

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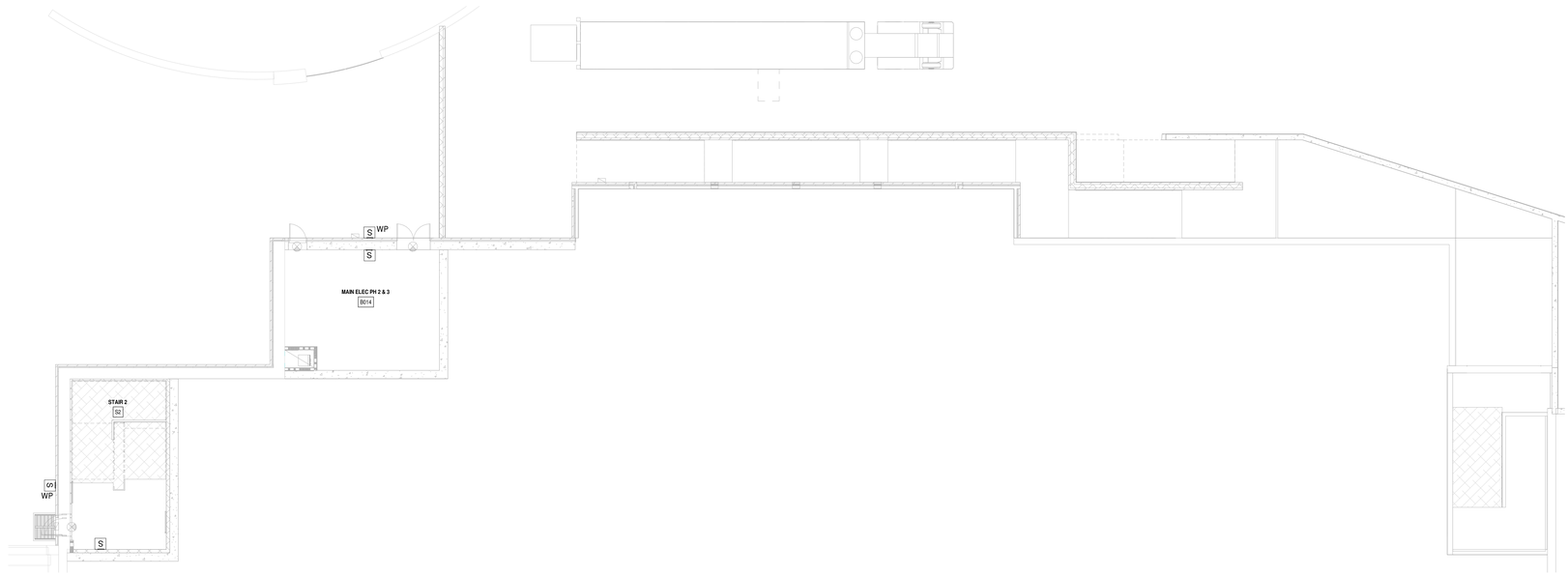
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

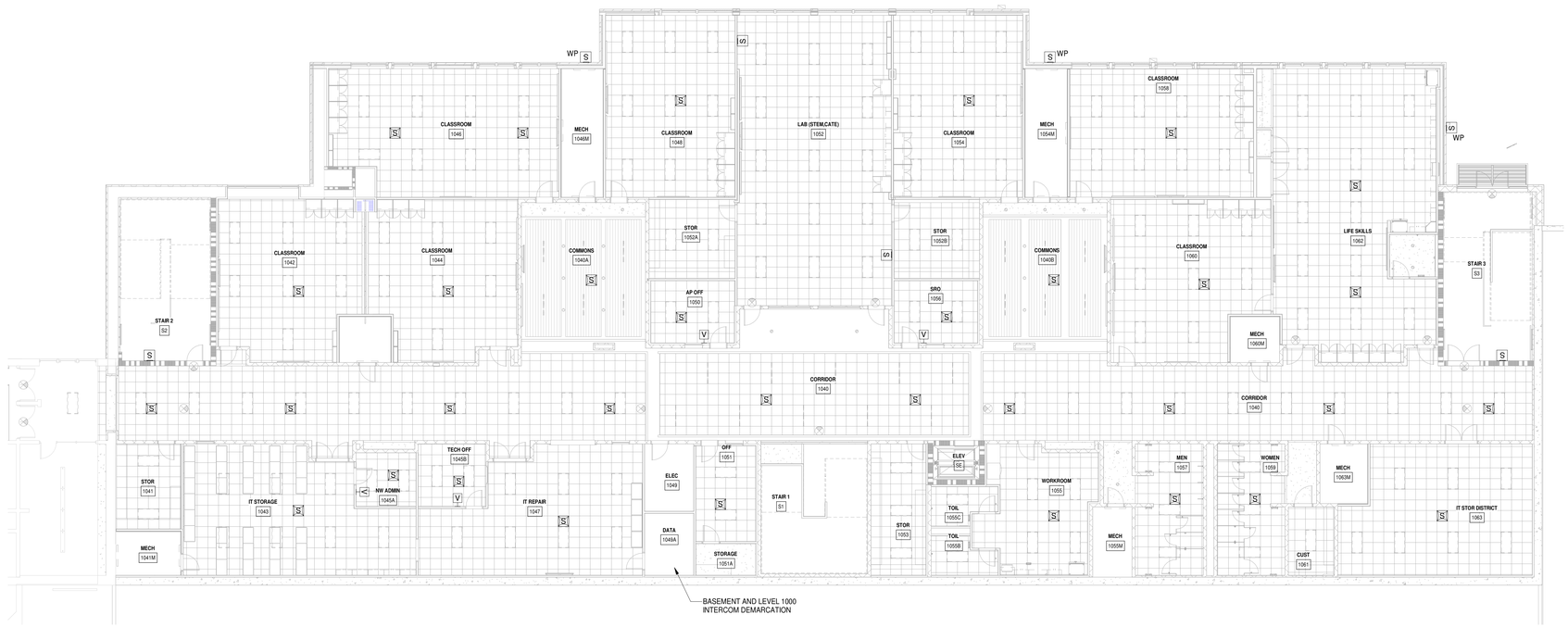
SHEET TITLE:
CABLE TRAY & IDF PLAN - LEVEL 1200

SHEET NO.
E411

PROJ. NO.
020420.00



1 INTERCOM SYSTEM PLAN - BASEMENT
3/32" = 1'-0"

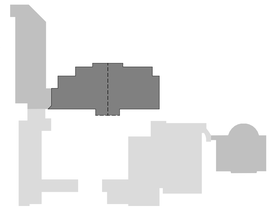


2 INTERCOM SYSTEM PLAN - LEVEL 1000
3/32" = 1'-0"

INTERCOM SYSTEM PLAN NOTES:

1. COORDINATE CEILING MOUNTED SPEAKER LOCATIONS WITH OTHER DEVICES AND HVAC SUPPLY/RETURNS.

2. COORDINATE FINAL MOUNTING HEIGHT AND COLOR OF WALL MOUNTED SPEAKERS WITH ARCHITECT.



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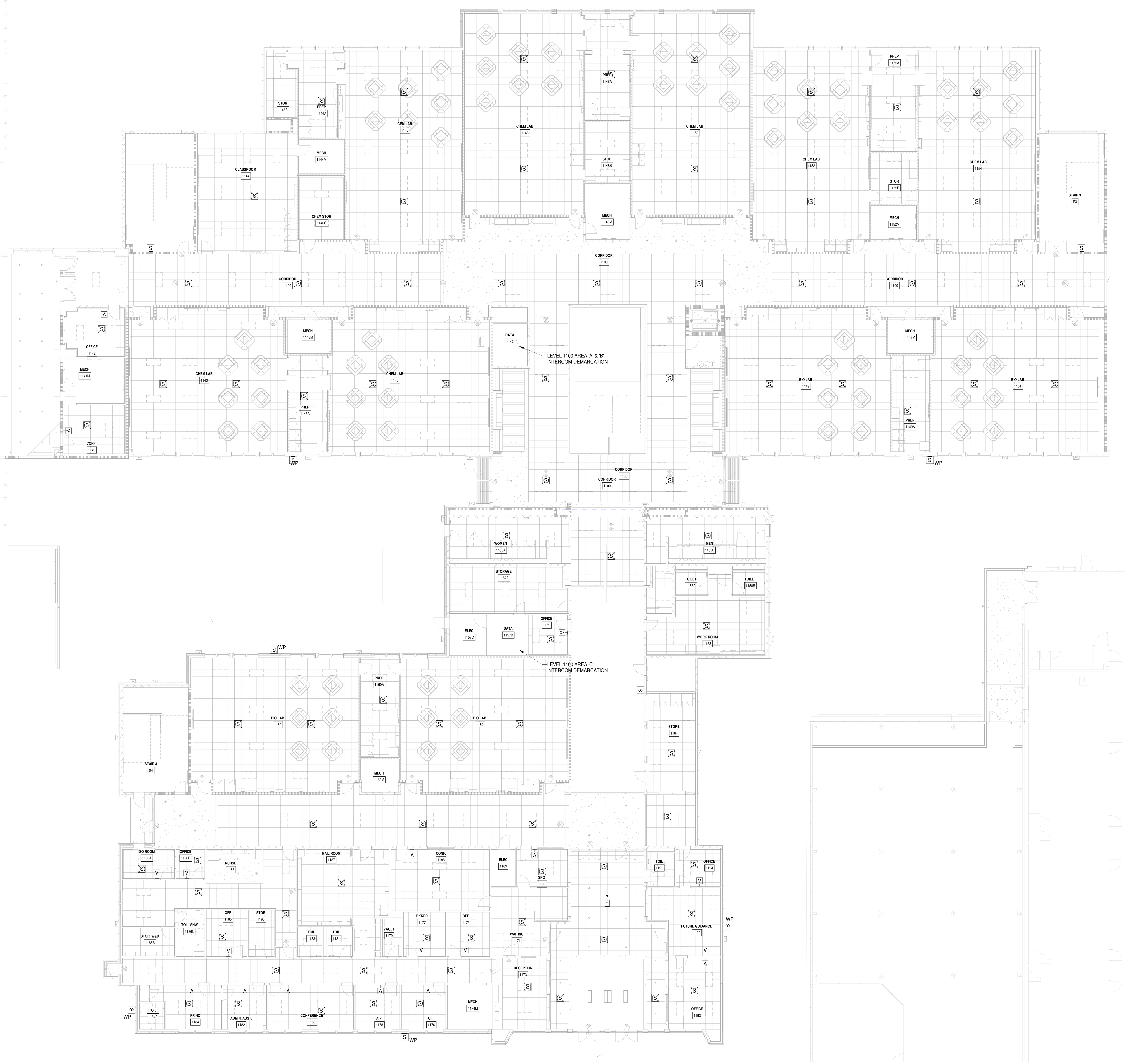
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

INTERCOM SYSTEM PLAN - LEVEL 1000

SHEET NO. E412

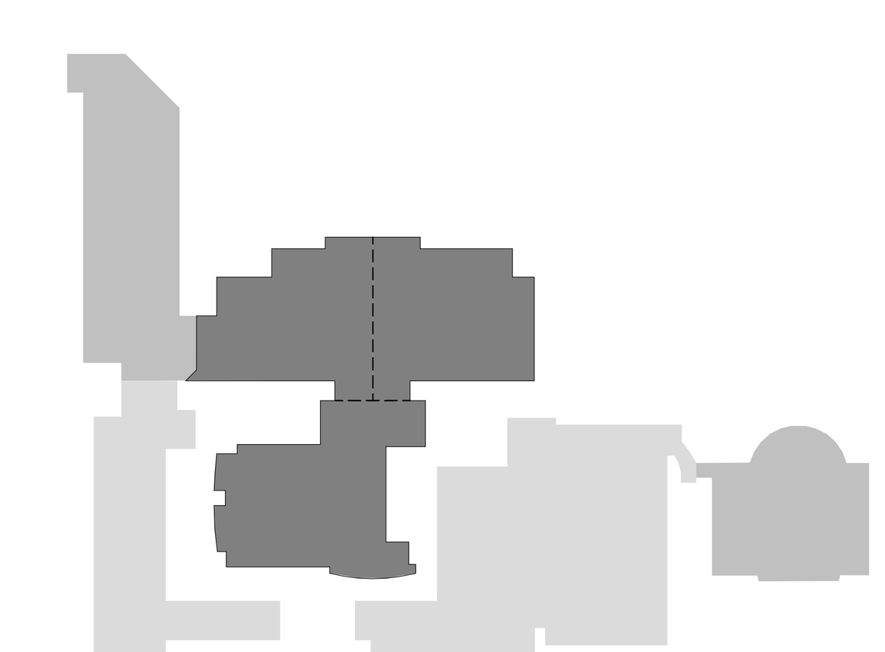
PROJ. NO. 020420.00



1 INTERCOM SYSTEM PLAN - LEVEL 1100
3/32" = 1'-0"

INTERCOM SYSTEM PLAN NOTES:

1. COORDINATE CEILING MOUNTED SPEAKER LOCATIONS WITH OTHER DEVICES AND HVAC SUPPLY/RETURNS.
2. COORDINATE FINAL MOUNTING HEIGHT AND COLOR OF WALL MOUNTED SPEAKERS WITH ARCHITECT.



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SHEET TITLE:
INTERCOM SYSTEM PLAN - LEVEL 1100

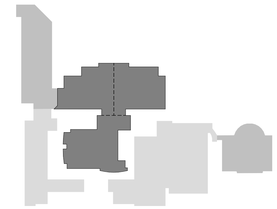
SHEET NO. E413
PROJ. NO. 020420.00

1 INTERCOM SYSTEM PLAN - LEVEL 1200
3/32" = 1'-0"

INTERCOM SYSTEM PLAN NOTES:

1. COORDINATE CEILING MOUNTED SPEAKER LOCATIONS WITH OTHER DEVICES AND HVAC SUPPLY/RETURNS.

2. COORDINATE FINAL MOUNTING HEIGHT AND COLOR OF WALL MOUNTED SPEAKERS WITH ARCHITECT.



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PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
INTERCOM SYSTEM PLAN - LEVEL 1200

SHEET NO.
E414

PROJ. NO.
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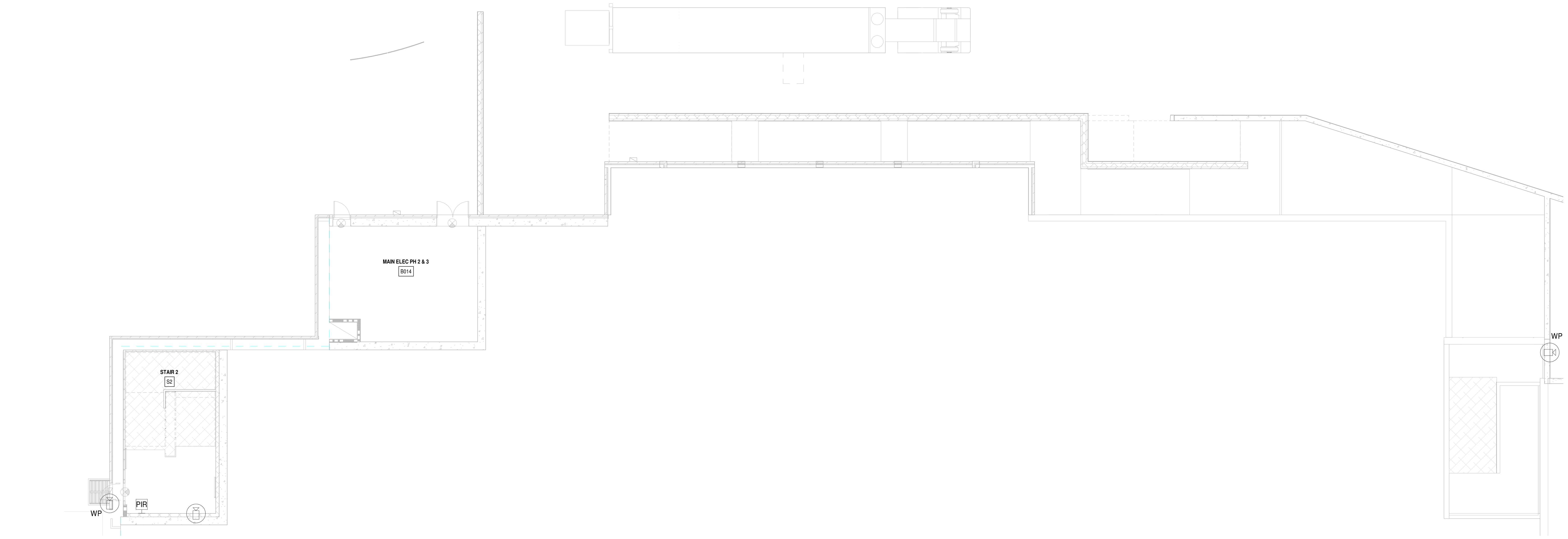
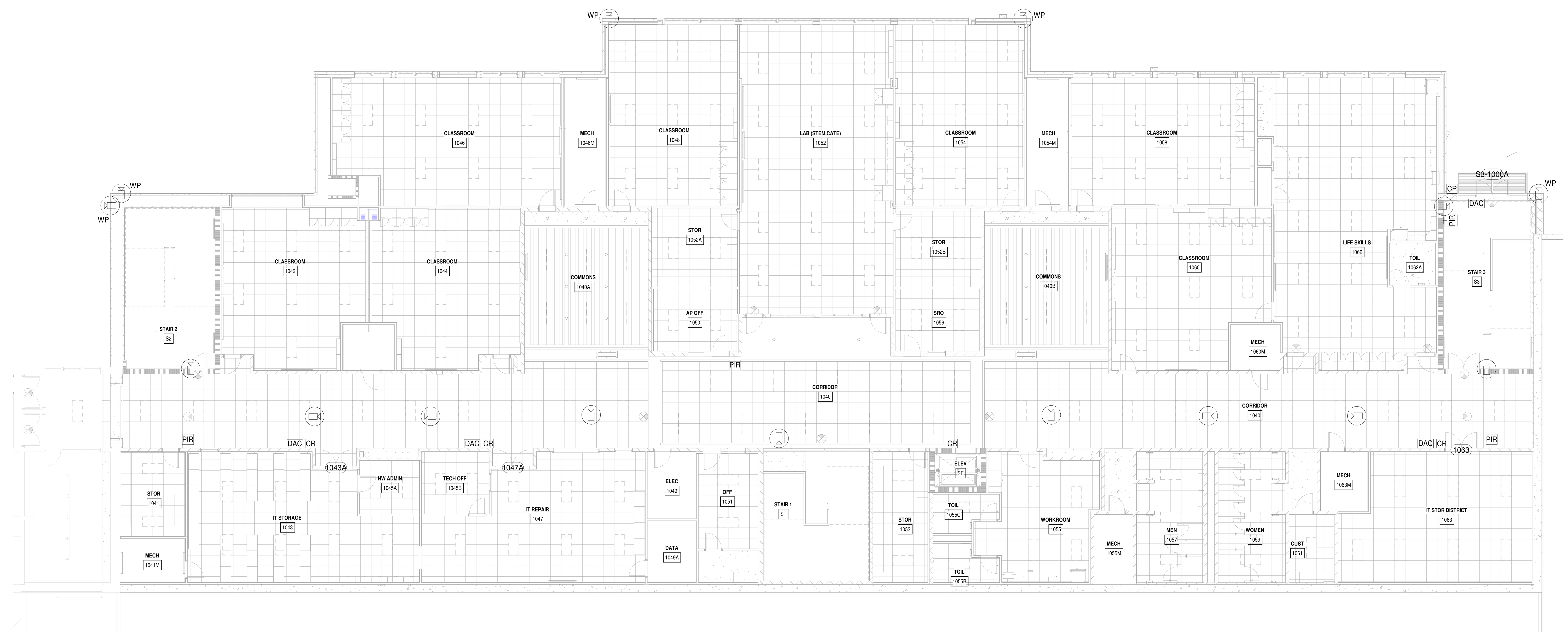


1 SECURITY SYSTEM PLAN - BASEMENT
3/32" = 1'-0"



2 SECURITY SYSTEM PLAN - LEVEL 1000
3/32" = 1'-0"

SECURITY SYSTEM PLAN NOTES:

1. COORDINATE MOUNTING HEIGHTS FOR WALL MOUNTED CAMERA'S AND VIEWING ANGLE FOR ALL CCTV CAMERA'S.

2. COORDINATE FINAL VOLTAGE REQUIRED FOR ELECTRIFIED DOOR HARDWARE WITH ARCHITECT & DOOR INSTALLER.

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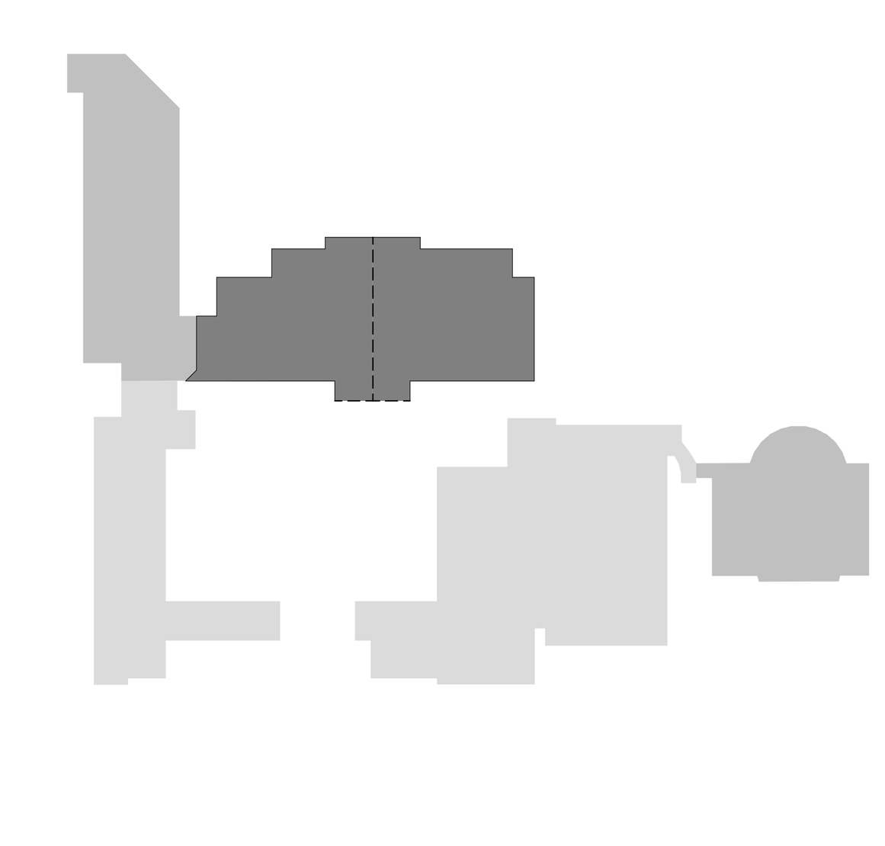

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C	06/01/22	GMP SET	JDJ

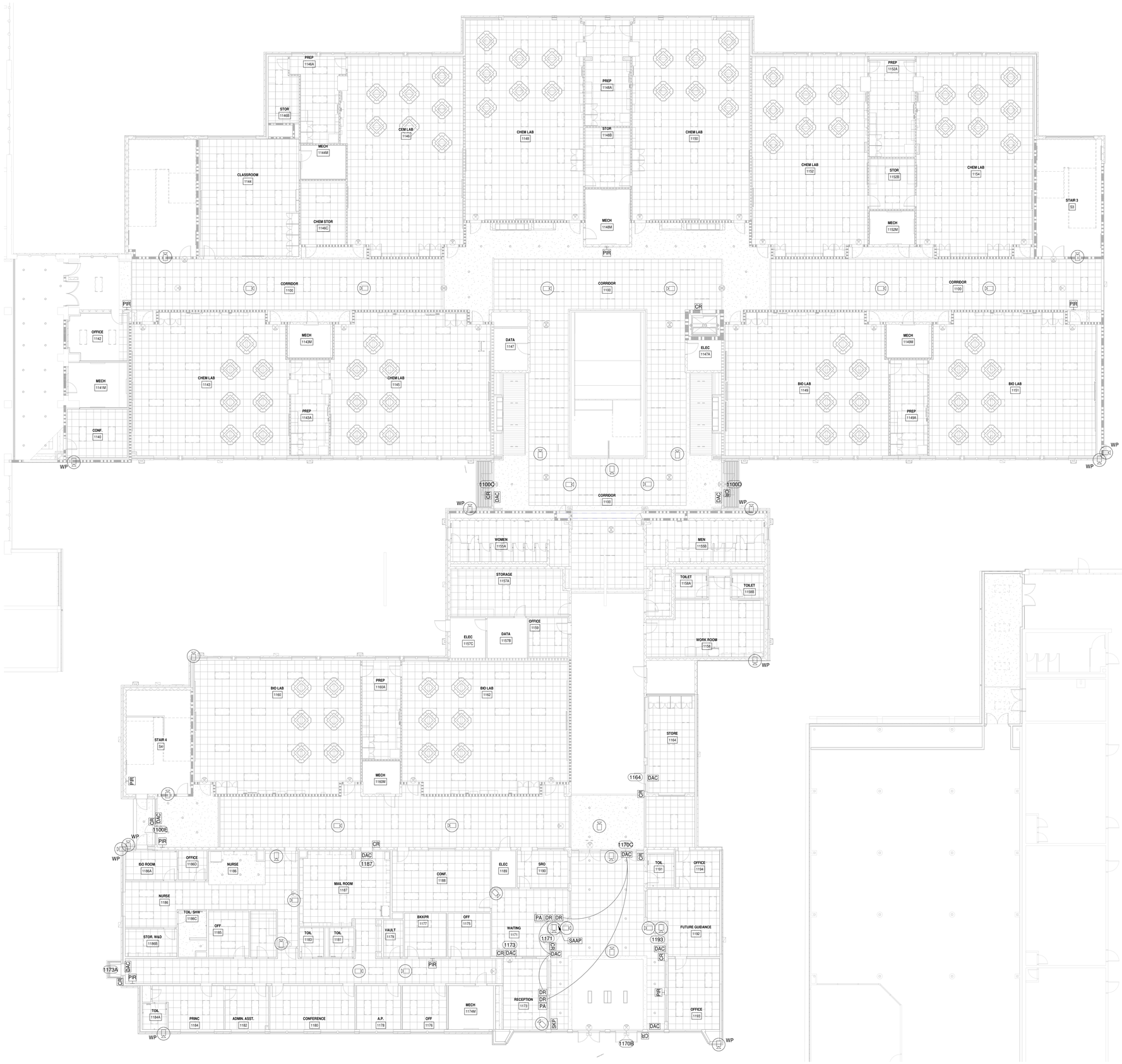
PRINCIPAL IN ENGINEER:	JDJ
PROJECT ENGINEER:	JDJ
DRAWN BY:	REA/LHO

SHEET TITLE:

SECURITY SYSTEM PLAN - LEVEL 1000

SHEET NO. PROJ. NO. 020420.00

E415

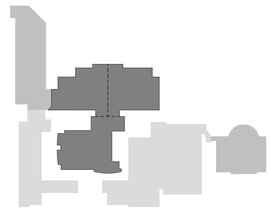


1 SECURITY SYSTEM PLAN - LEVEL 1100
3/32" = 1'-0"

SECURITY SYSTEM PLAN NOTES:

1. COORDINATE MOUNTING HEIGHTS FOR WALL MOUNTED CAMERA'S AND VIEWING ANGLE FOR ALL CCTV CAMERAS.

2. COORDINATE FINAL VOLTAGE REQUIRED FOR ELECTRIFIED DOOR HARDWARE WITH ARCHITECT & DOOR INSTALLER.



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SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

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DUNCAN, SC 29334

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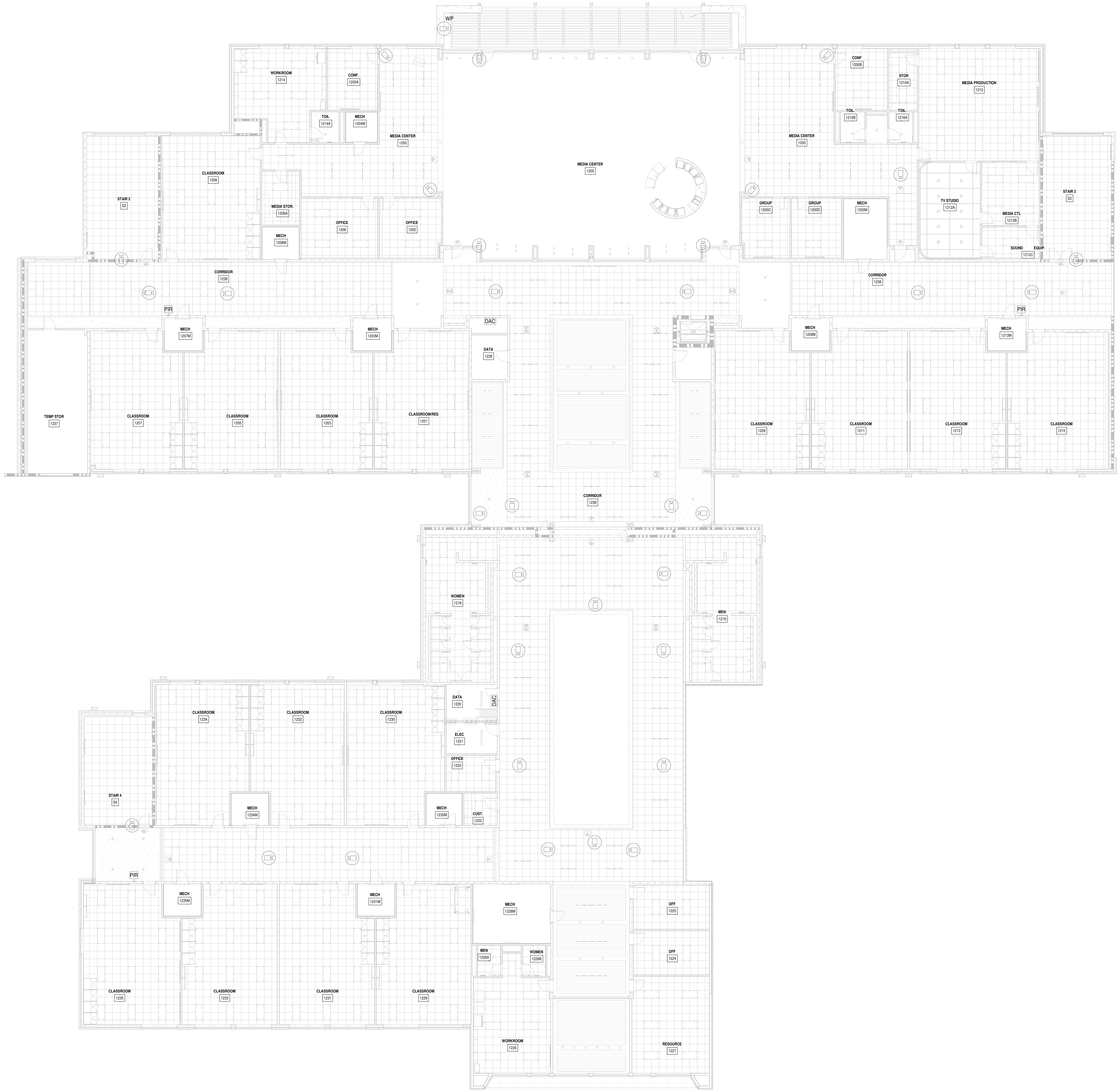
DRAWN BY: REA/LHO

SHEET TITLE:
SECURITY SYSTEM PLAN - LEVEL 1100

SHEET NO. E416

PROJ. NO. 020420.00

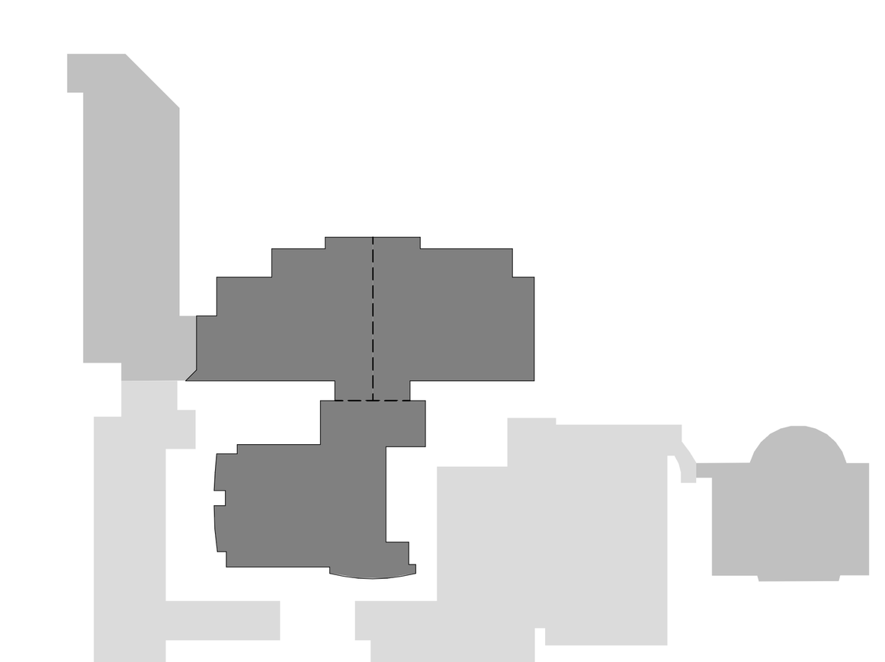


1 SECURITY SYSTEM PLAN - LEVEL 1200
3/32" = 1'-0"

SECURITY SYSTEM PLAN NOTES:

1. COORDINATE MOUNTING HEIGHTS FOR WALL MOUNTED CAMERA'S AND VIEWING ANGLE FOR ALL CCTV CAMERA'S.

2. COORDINATE FINAL VOLTAGE REQUIRED FOR ELECTRIFIED DOOR HARDWARE WITH ARCHITECT & DOOR INSTALLER.



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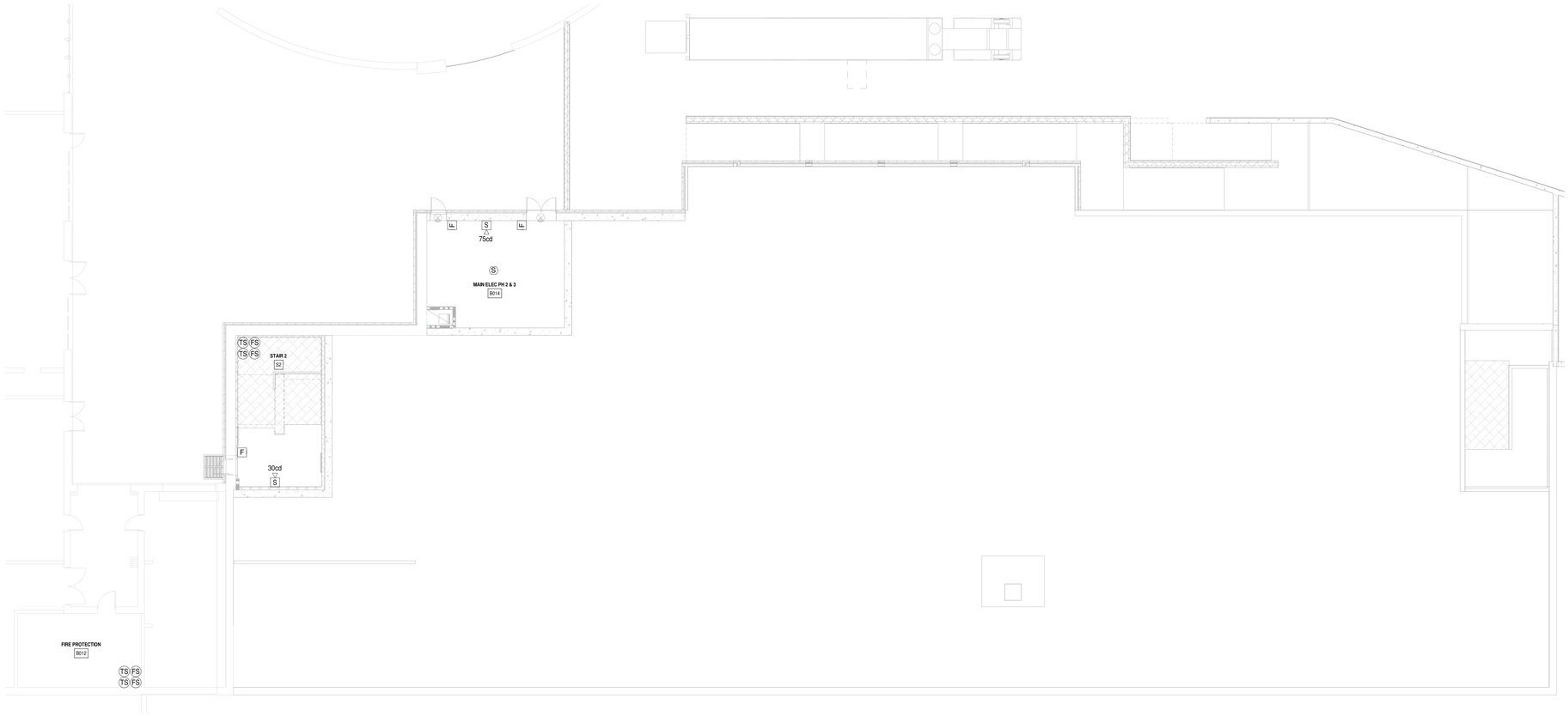
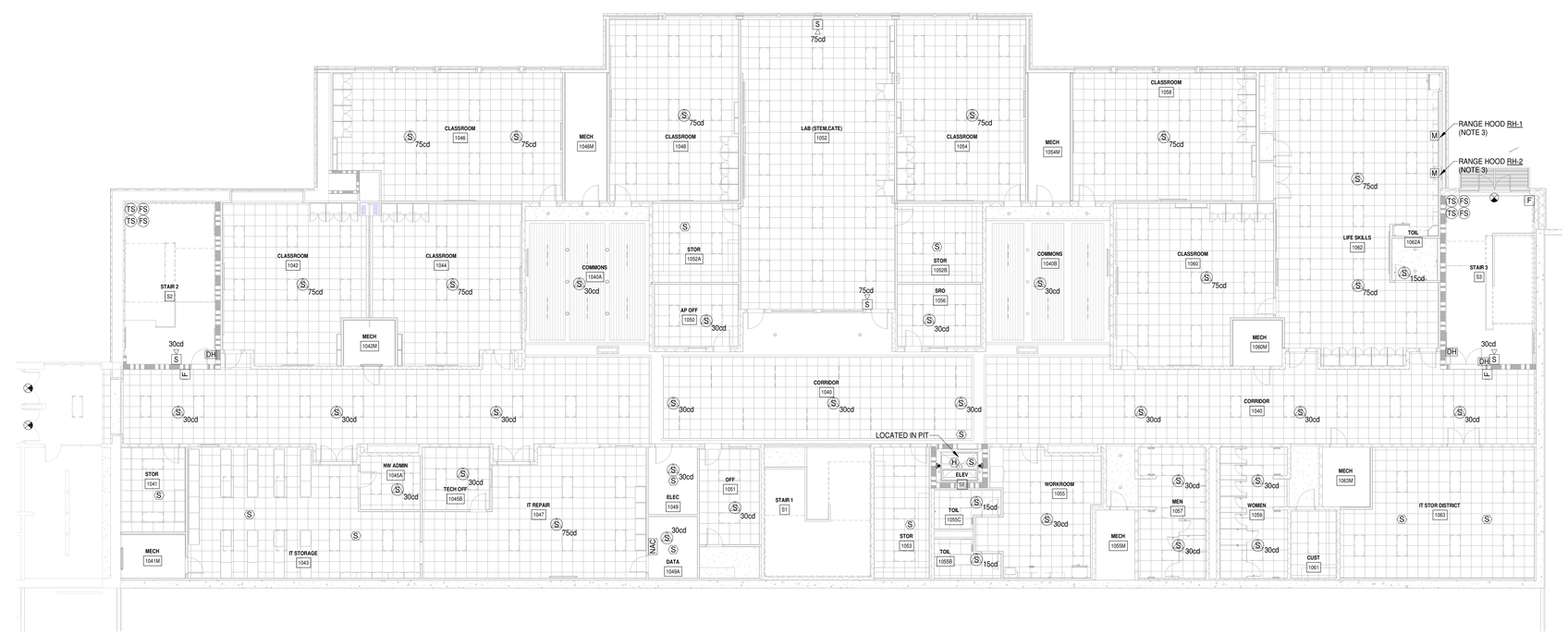
SHEET TITLE:
SECURITY SYSTEM PLAN - LEVEL 1200

SHEET NO. E417

PROJ. NO. 020420.00



1 FIRE ALARM SYSTEM PLAN - BASEMENT
3/32" = 1'-0"



2 FIRE ALARM SYSTEM PLAN - LEVEL 1000
3/32" = 1'-0"

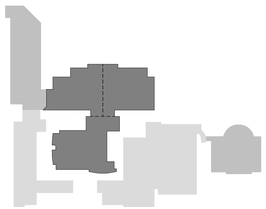
FIRE ALARM SYSTEM PLAN NOTES:

1. REFERENCE FIRE ALARM RISER DIAGRAM.

2. COORDINATE FINAL LOCATION FOR SMOKE DETECTOR LOCATED AT SMOKE DAMPER WITH MECHANICAL DRAWINGS. PROVIDE ALL REQUIRED CONNECTIONS. SEE POWER PLANS FOR MOTORIZED DAMPER POWER REQUIREMENTS.

3. COORDINATE EXACT LOCATION AND PROVIDE ALL REQURIED CONNECTIONS FOR MONITORING OF RANGE HOODS.

4. COORDINATE LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES SHOWN.



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/21	DD PRICING	JDJ
C	06/01/22	GMP SET	JDJ

NOT FOR CONSTRUCTION
FOR PRICING ONLY

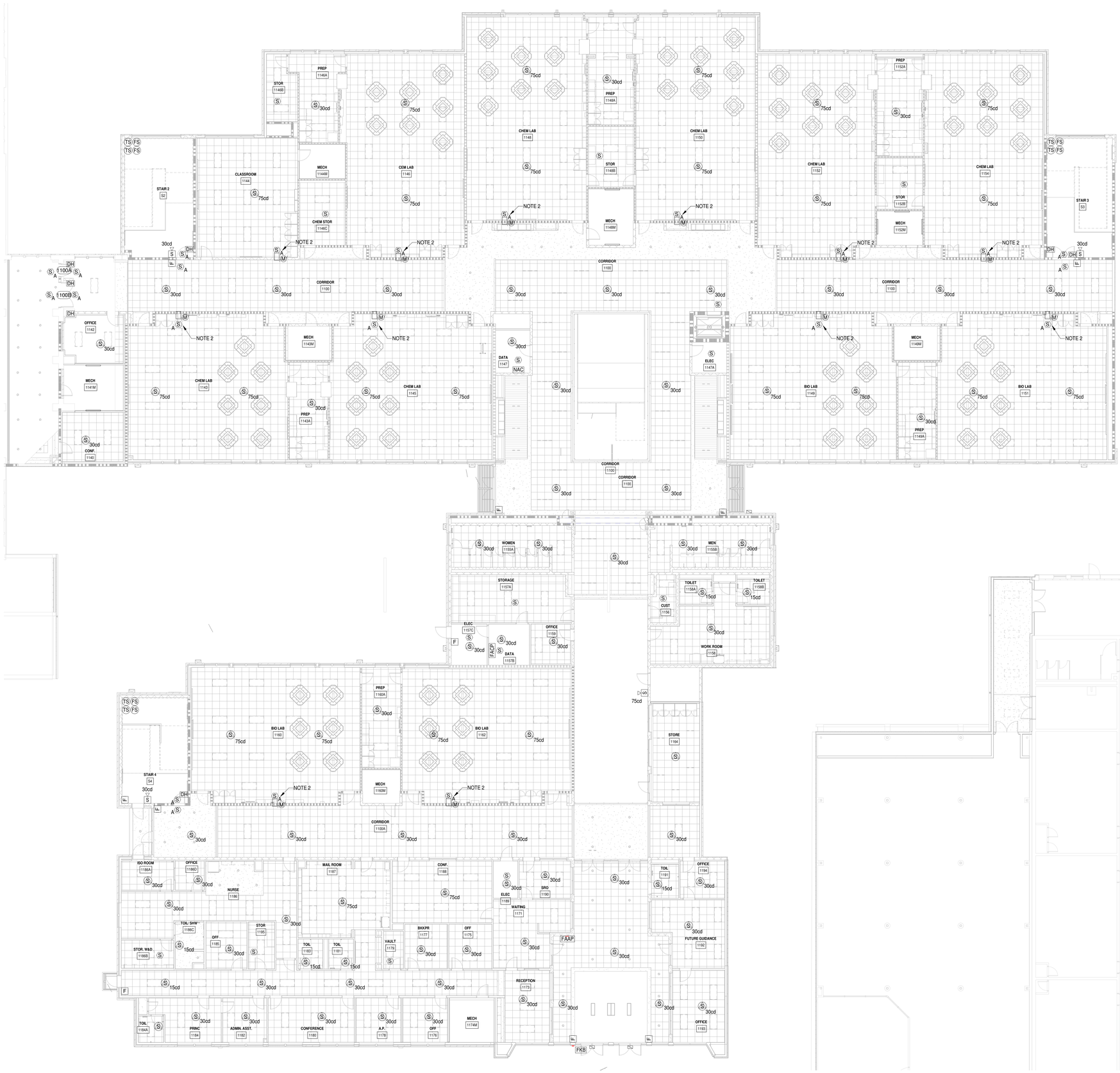
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

FIRE ALARM PLAN - LEVEL 1000

SHEET NO. E418

PROJ. NO. 020420.00



1 FIRE ALARM SYSTEM PLAN - LEVEL 1100
3/32" = 1'-0"

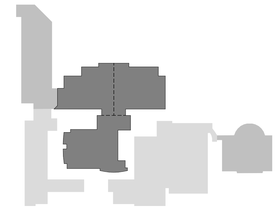
FIRE ALARM SYSTEM PLAN NOTES:

1. REFERENCE FIRE ALARM RISER DIAGRAM.

2. COORDINATE FINAL LOCATION FOR SMOKE DETECTOR LOCATED AT SMOKE DAMPER WITH MECHANICAL DRAWINGS. PROVIDE ALL REQUIRED CONNECTIONS. SEE POWER PLANS FOR MOTORIZED DAMPER POWER REQUIREMENTS.

3. COORDINATE EXACT LOCATION AND PROVIDE ALL REQURIED CONNECTIONS FOR MONITORING OF RANGE HOODS.

4. COORDINATE LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES SHOWN.



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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:

FIRE ALARM PLAN - LEVEL 1100

SHEET NO. E419

PROJ. NO. 020420.00

1 FIRE ALARM SYSTEM PLAN - LEVEL 1200
3/32" = 1'-0"

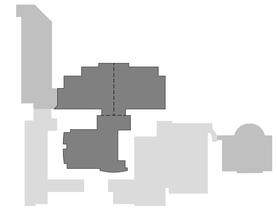
FIRE ALARM SYSTEM PLAN NOTES:

1. REFERENCE FIRE ALARM RISER DIAGRAM.

2. COORDINATE FINAL LOCATION FOR SMOKE DETECTOR LOCATED AT SMOKE DAMPER WITH MECHANICAL DRAWINGS. PROVIDE ALL REQUIRED CONNECTIONS. SEE POWER PLANS FOR MOTORIZED DAMPER POWER REQUIREMENTS.

3. COORDINATE EXACT LOCATION AND PROVIDE ALL REQUIRED CONNECTIONS FOR MONITORING OF RANGE HOODS.

4. COORDINATE LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES SHOWN.



mcmillan pazdan smith
ARCHITECTURE

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SEALS

SPARTANBURG COUNTY SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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150 E. MAIN STREET
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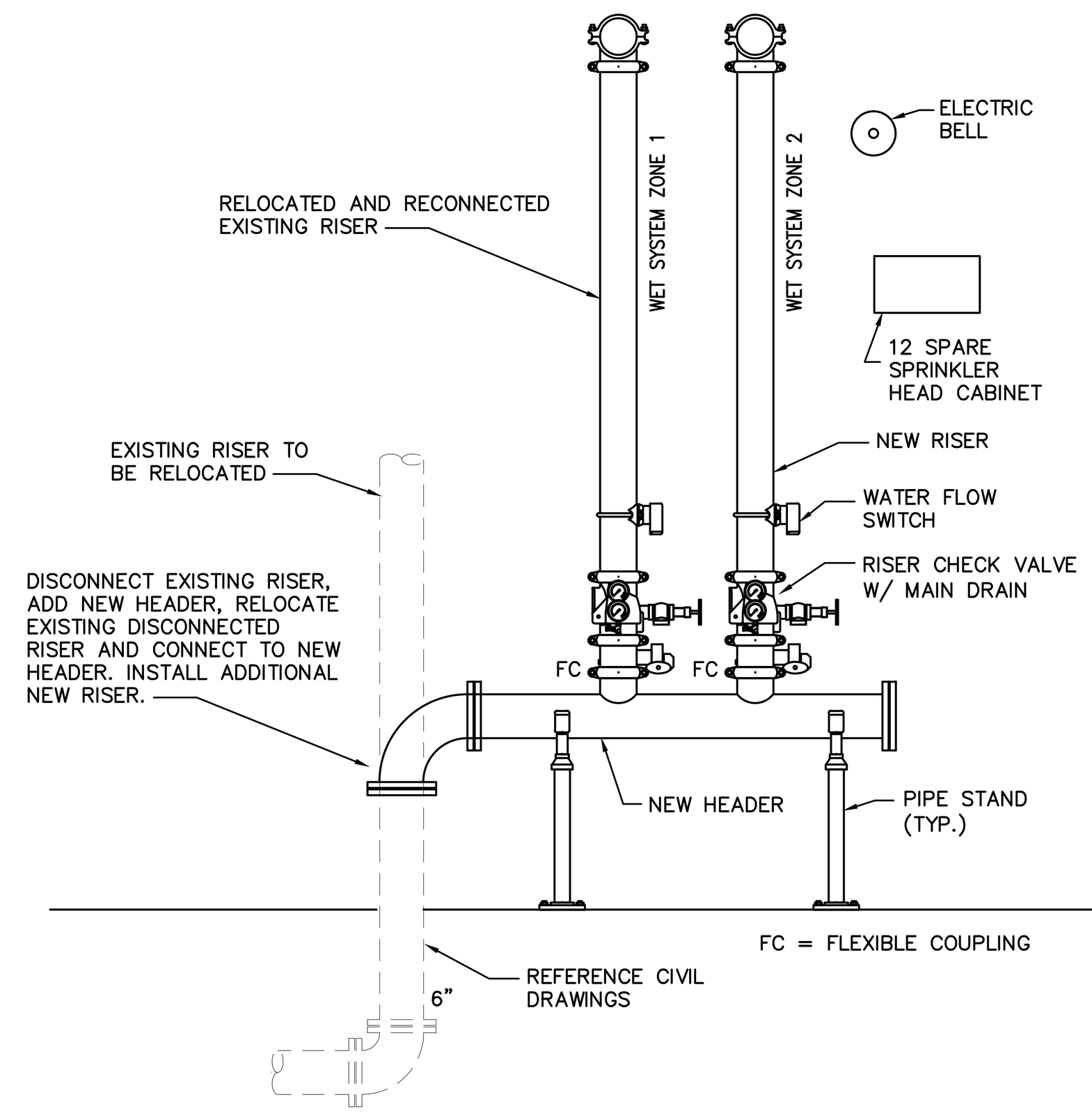
PRINCIPAL IN ENGINEER: JDJ
PROJECT ENGINEER: JDJ
DRAWN BY: REA/LHO

SHEET TITLE:
FIRE ALARM PLAN - LEVEL 1200

SHEET NO. E420

PROJ. NO. 020420.00



NOTES:

1. PROVIDE FLEXIBLE COUPLINGS WITHIN 24" OF TOP AND BOTTOM OF RISERS.
2. PROVIDE SYSTEM DRAIN FOR EACH RISER. SYSTEM DRAIN SHALL BE ROUTED TO THE EXTERIOR OF THE BUILDING.
3. PROVIDE INSPECTOR'S TEST CONNECTION.
4. PROVIDE ELECTRONIC SUPERVISION FOR EACH RISER PER NFPA 13.
5. PROVIDE DRY SYSTEM WITH QUICK OPENING DEVICE AS REQUIRED PER NFPA 13 7.2.3.4.\
6. ONE SET OF INSTALLATION RECORDS FOR FIRE PROTECTION SYSTEMS SHALL BE INSTALLED AT THE PREMISES UPON COMPLETION OF THE PROJECT PER IFC 901.6.2.1. THE RECORDS SHALL BE PLACED WITHIN A BINDER OR PLAN TUBE, LABELED 'FIRE PROTECTION PLANS – DO NOT REMOVE', AND POSTED NEAR THE SPRINKLER RISER, FIRE ALARM PANEL, OR OTHER APPROVED AREA. WE RECOMMEND THAT YOU CONSIDER COMPLETING THIS FOR ONE SET OF BUILDING PLANS.

1 / FP001 — FIRE SPRINKLER RISER DETAIL

NTS

Project Data

Project name: Byrnes High School Phase 2			
Location in South Carolina:	Address (street # & street name): 150 E Main Street		State project: ☐ Yes ■ No
	City: Duncan. 29334	County: Spartanburg	State project #: N/A

Water Supply Information
(flow test data must be less than 1 year old per §40-10-250(A)(1))

Date test conducted:	Static pressure (psi):	Residual pressure (psi):	Flow (gpm):
Distances of test gauges relative to the base of the riser:	Horizontal (ft.):	Vertical (elevation difference in ft.): 0	
Source of water supply:	☐ Municipal dead-end ☑ Municipal circulation ☐ Other:		Pipe Size (in.): 6
Test data by/from:	Name:	Title: Tech	
	Organization:		Telephone #: (864)
Fire pump:	☐ News ☐Existing	Pump Capacity (gpm):	Churn Pressure (psi):
	■ No Pump	Rated Pressure (psi):	Pressure @ 150% flow (psi):
On-site storage tank:	☐ Yes ☑No	☐New ☐ Existing	Tank capacity (gallons):

NFPA Hazard Classification (attach continuation page when necessary)

Area #	Class or Code Reference	Description of Hazard Protected (commodity description, storage height, and arrangement as applicable.)
1	Light Hazard	Offices, Classrooms, Restrooms, Corridors, etc.
2	Ordinary Group 1	Storage, Mech and Electrical rooms, etc.

Design Parameters (attach continuation page when necessary)

Area #	System Type	Density (gpm/ft²) / Area (ft²) or Other (reference code section)	Inside Hose (gpm)	Outside Hose (gpm)
1	Wet	0.10 / 1500	0	100
2	Wet	0.15 / 1500	0	250

Seismic Design Data: Ss= 0.397

Codes and Standards
(attach continuation page when necessary)

Applicable Codes, Standards & Editions (i.e. "2006 IBC", "2007 NFPA 13", etc.) **for the Scope of Work on the Sprinkler System**

NFPA 13-2016; NFPA 14-2016; IBC -2018; IFC- 2018

Scope of work (such as sprinkler system A.G. from 1'-0" A.F.F., U.G. from tap to 5'-0" outside, etc.) and notes (attach continuation page when necessary):
Contractor to start at existing riser and add new riser to serve the new addition. Install new standpipes in Stairs 2 and 3 with floor control valves serving each floor. Use concealed heads for all finished ceiling locations.

Specifier's Information

Name: Warren E. Maddox, P.E.	
Engineering services provided through a firm: ☑ Yes ☐No	
Firm name: Maddox Engineering, Inc.	
Address: PO Box 26266	
City: Greenville	
State: SC	Zip: 29616
Phone #: 864-334-1875	Fax #: 864-334-1878
E-mail: warren@maddoxeng.pro	

SOUTH CAROLINA MADDOX ENGINEERING, INC. No. C 02747 CERTIFICATE OF AUTHORIZATION

Certificate of Authorization

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 9124 WARREN EUGENE MADDOX

12/10/2021

Professional Engineer's Seal

FIRE PROTECTION NOTES

GENERAL REQUIREMENTS:

1. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED AUTOMATIC SPRINKLER SYSTEM. INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO DELIVER ALL SYSTEMS COMPLETE, IN PERFECT WORKING ORDER AND IN FULL ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, THE OWNER'S INSURANCE UNDERWRITER AND LOCAL AUTHORITIES.
2. OBTAIN CURRENT WATER FLOW TEST INFORMATION FROM THE LOCAL WATER UTILITY BEFORE STARTING ANY SPRINKLER SHOP DRAWINGS.
3. OBTAIN A COMPLETE AND CURRENT SET OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL MECHANICAL. ELECTRICAL, PLUMBING DRAWINGS AND COORDINATE SPRINKLER SHOP DRAWINGS WITH ALL TRADES PRIOR TO CONSTRUCTION.
4. PROVIDE SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO ALL ITEMS WHICH APPLY AS OUTLINED IN NFPA–13 SECTION 23.1; "WORKING PLANS" AND IN NFPA I3 SECTION 23.3; "HYDRAULIC CALCULATIONS".
5. THE SPRINKLER CONTRACTOR SHALL DETERMINE AND NOTE ON THE DRAWINGS; THE HAZARD CLASSIFICATION USED TO DETERMINE SPRINKLER SPACING AND DESIGN DENSITIES.
6. PRIOR TO THE START OF CONSTRUCTION, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SUBMITTING TO ALL AUTHORITIES HAVING JURISDICTION AND THE DESIGN ENGINEER/ARCHITECT COMPLETE DESIGN/SHOP DRAWINGS AND HYDRAULIC CALCULATIONS BEARING A CURRENT NICET LEVEL 3 OR 4 SIGNATURE.
7. OBTAIN A PERMIT FROM THE LOCAL AUTHORITIES PRIOR TO THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEM.
8. PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN THE PIPING AND AUXILIARY DRAINS AS REQUIRED BY ALL APPLICABLE CODES WHETHER OR NOT SHOWN ON THE PLANS.
9. THE DESIGN, MATERIALS, AND INSTALLATION SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE N.F.P.A. CODES, STATE FIRE MARSHAL, LOCAL FIRE MARSHAL HAVING JURISDICTION, OWNERS INSURANCE CARRIER, AND GOVERNING CITY AND COUNTY CODES.
10. WARRANTY THE SYSTEM, LABOR, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER OWNERS ACCEPTANCE. REPLACE OR REPAIR DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
11. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SEISMIC PROTECTION REQUIREMENTS FOR THE PROJECT AND THE SEISMIC DESIGN CONFORMING TO ALL APPLICABLE CODES.
12. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING APPARATUS EQUIPMENT, ETC. IN ACCORDANCE WITH ALL APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
13. ALL SPRINKLE ALARM, TAMPER AND DETECTION SYSTEMS ARE TO BE CONNECTED TO THE BUILDINGS CENTRAL FIRE ALARM SYSTEM.
14. VALVES, HEADS, FLOW SWITCHES, ETC., SHALL CARRY EITHER THE F.M. OR U.L. APPROVAL AND CONFORM TO ALL REQUIREMENTS AS LISTED IN THE LATEST EDITION OF THE NFPA CODES.
15. ABOVE GRADE AND FITTINGS: BLACK STEEL CONFORMING TO ASTM SPECIFICATIONS FOR BLACK AND HOT DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS STEEL PIPE FOR ORDINARY USES, ANSI/ASTM A53, FITTINGS SHALL BE WELDED, SCREWED, OR GROOVED MECHANICAL JOINT.
16. PIPE HANGER: SHALL CONFORM TO N.F.P.A. AND U.L. STANDARDS FOR SPACING, NUMBER, SIZE, AND TYPE. PIPE TO BE GENERALLY SUPPORTED BY CLAMPS AND RODS SECURED TO OVERHEAD CONSTRUCTION.
17. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, FLOORS, OR CEILING. PROVIDE PRIME COAT PAINTED ESCUTCHEON PLATES WHEREVER PIPES PASS THROUGH THE WALLS, FLOOR, OR CEILINGS IN UNFURNISHED EXPOSED AREAS.
18. TESTING AND FLUSHING: OVERHEAD SPRINKLER PIPING: TESTED FOR A PERIOD OF TWO HOURS AT A HYDROSTATIC PRESSURE OF 200 LBS. AND ALL PIPING, VALVES, HEADS, ETC. SHALL BE WATERTIGHT.
19. CUTTING AND PATCHING OF ANY EXISTING CONDITIONS INCLUDING FLOORS, WALLS AND CEILINGS DUE TO THE INSTALLATION OF THE FIRE PROTECTION SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK SHALL BE COORDINATED WITH ALL OTHER TRADES.
20. PAINT ALL EXPOSED PIPING IN CLOSETS, STAIRWELLS, MECHANICAL ROOM, ETC. COLOR TO BE SELECTED BY THE ARCHITECT.
21. HEAD LOCATIONS ARE TO BE IN CENTER OF THE CEILING TILE USING THE REFLECTIVE CEILING PLANS IN THE CONTRACT DOCUMENTS, AND AS COORDINATED WITH THE CEILING CONTRACTOR. FLEXIBLE HEADS MAY BE UTILIZED IN FINISHED CEILINGS.
22. PROVIDE RECORD DRAWINGS WHICH CLEARLY SHOW ALL UNDERGROUND PIPING DIMENSIONED FROM ANY PERMANENT STRUCTURE, AND ALL WORK ADDED TO THE CONTRACT DOCUMENTS.
23. THE ENGINEER OF RECORD SHALL REVIEW THE SHOP DRAWINGS AND CALCULATIONS AS SUBMITTED BY THE SPRINKLER CONTRACTOR AND PREPARE THE FIRE SPRINKLER SPECIFICATION SHEET AND CERTIFICATE OF COMPLIANCE AND SUBMIT TO LLR, DIVISION OF FIRE AND LIFE SAFETY, OFFICE OF STATE FIRE MARSHAL.
24. EACH FIRE LINE SERVING A RISER ASSEMBLY SHALL CONTAIN EITHER A FREE STANDING POST INDICATOR VALVE, OR A WALL INDICATOR VALVE VISIBLE FROM THE OUTSIDE OF THE BUILDING. THESE ABOVE GRADE VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES CONNECTED TO THE BUILDING FIRE ALARM.
25. ABOVE GROUND PIPING SHALL BE METALLIC IN ACCORDANCE WITH NFPA 13.
26. QUICK RESPONSE TYPE SPRINKLER HEADS SHALL NOT BE USED IN COOLERS AND FREEZERS.
27. OVERSIZED, METALLIC ESCUTCHEONS FOR SPRINKLER HEADS SHALL BE PROVIDED IN SEISMIC SUSPENDED CEILINGS AS REQUIRED BY THE IBC. A FLEXIBLE CONNECTION TO THE SPRINKLER HEAD IS AN ACCEPTABLE ALTERNATIVE.
28. THE FIRE SPRINKLER SYSTEM SEISMIC RESTRAINT SYSTEM SHALL BE DESIGNED WITH A MINIMUM IMPORTANCE FACTOR OF 1.5 AS DESIGNATED BY THE STRUCTURAL DESIGN CHAPTER OF THE IBC. SEE ALSO THE REQUIREMENTS OF N.F.P.A. 13.
29. PIV TO BE ELECTRICALLY MONITORED.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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Greenville, SC 29616
420 IA The Parkway
Greer, SC 29650

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02-28-2022	DD PRICING	WEM
C	06-01-2022	GMP SET	WEM

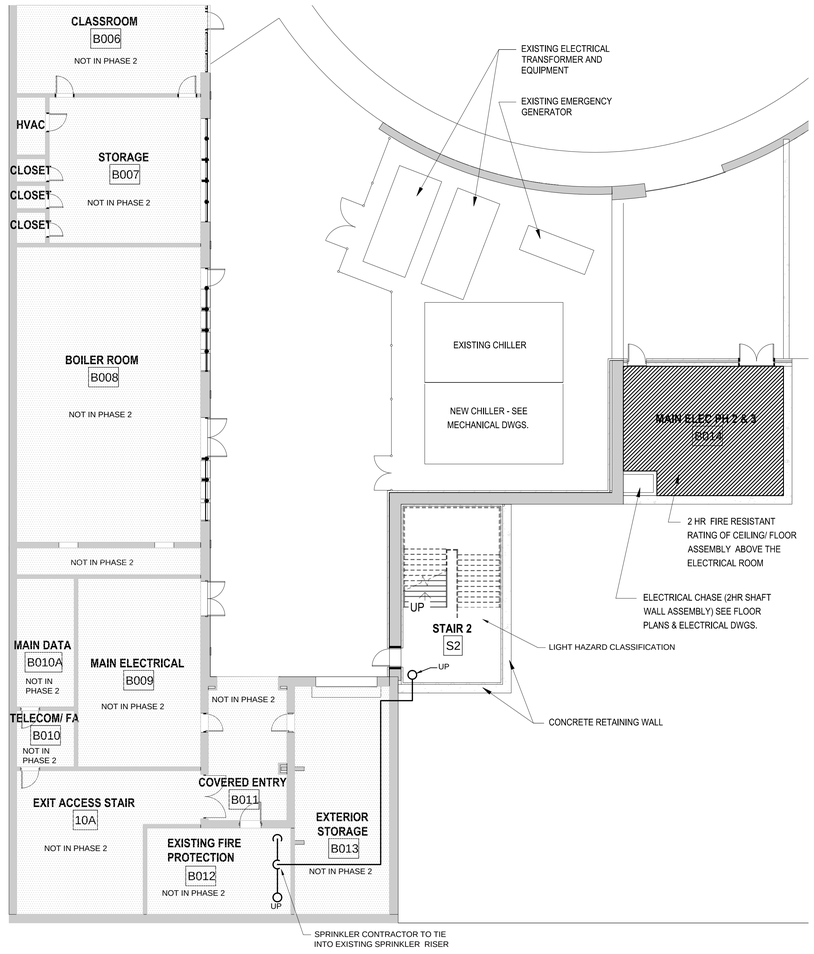
NOT FOR CONSTRUCTION
FOR PRICING ONLY

PRINCIPAL IN CHARGE: WEM
PROJECT ARCHITECT: RC
DRAWN BY: ARL

SHEET TITLE:
FIRE PROTECTION NOTES, DETAILS AND SPEC. SHEET

SHEET NO. FP001

PROJ. NO. 020420.00



1 FP100 FIRE PROTECTION PLAN – PHASE 2 BASEMENT
NTS

LEGEND

SPRINKLER COVERAGE
ALL AREAS ARE LIGHT HAZARD, UNLESS NOTED OTHER WISE.
DENSITY: 0.10 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 100 GPM

SPRINKLER COVERAGE
ORDINARY GROUP 1,
DENSITY: 0.15 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 250 GPM

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEA

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SPARTANBURG SCHOOL DISTRICT FIVE

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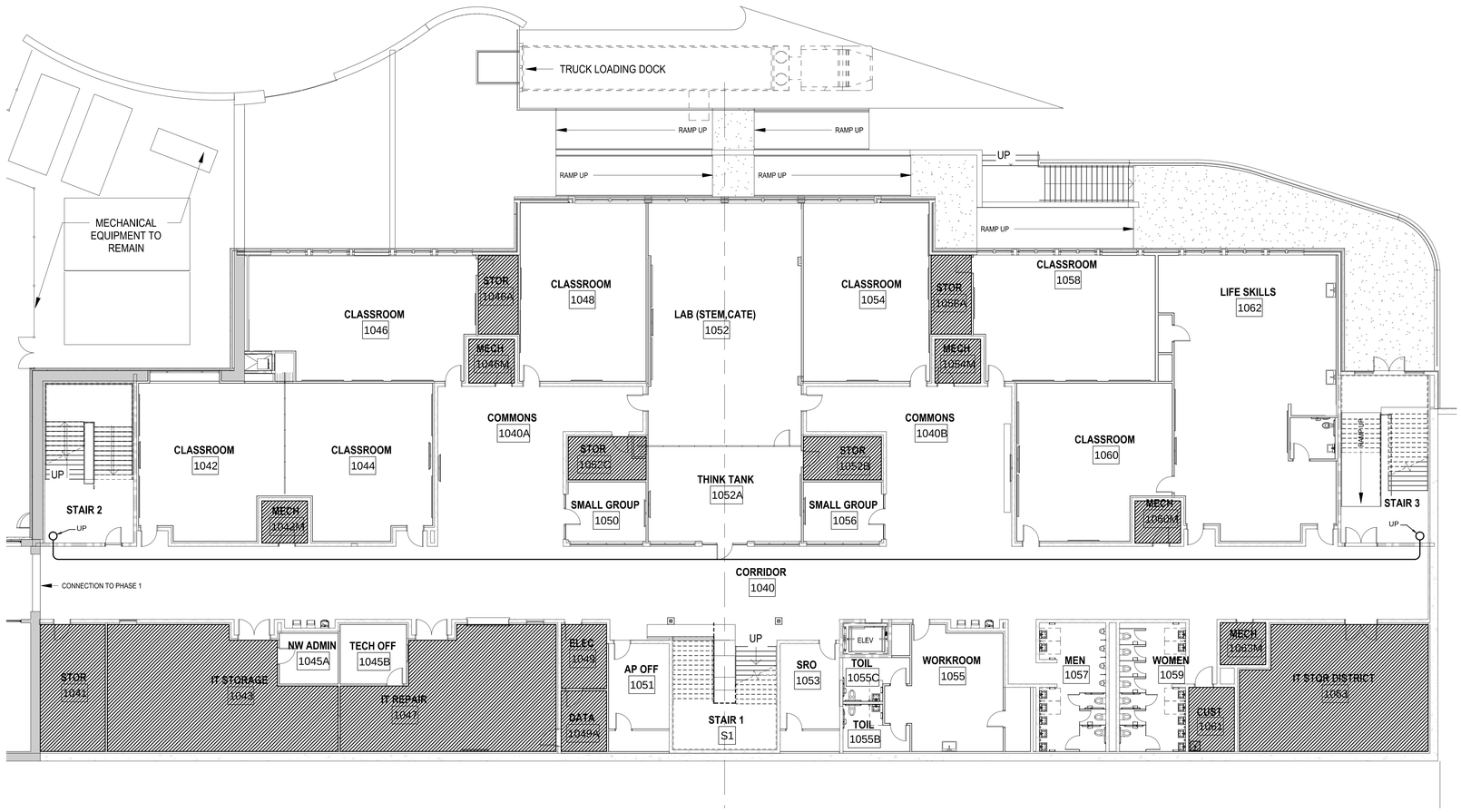
PROJECT ARCHITECT: RC
DRAWN BY: ARL

SHEET TITLE:
FIRE PROTECTION PLAN - PHASE 2 BASEMENT

SHEET NO. FP100

PROJ. NO. 020420.00



1 FP101 FIRE PROTECTION PLAN – PHASE 2 LEVEL 1000
NTS

LEGEND

SPRINKLER COVERAGE
ALL AREAS ARE LIGHT HAZARD, UNLESS NOTED OTHER WISE.
DENSITY: 0.10 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 100 GPM

SPRINKLER COVERAGE
ORDINARY GROUP 1
DENSITY: 0.15 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 250 GPM

mcmillan pazdan smith
ARCHITECTURE

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
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150 E. MAIN STREET
DUNCAN, SC 29334

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C	06-01-2022	GMP SET	WEM

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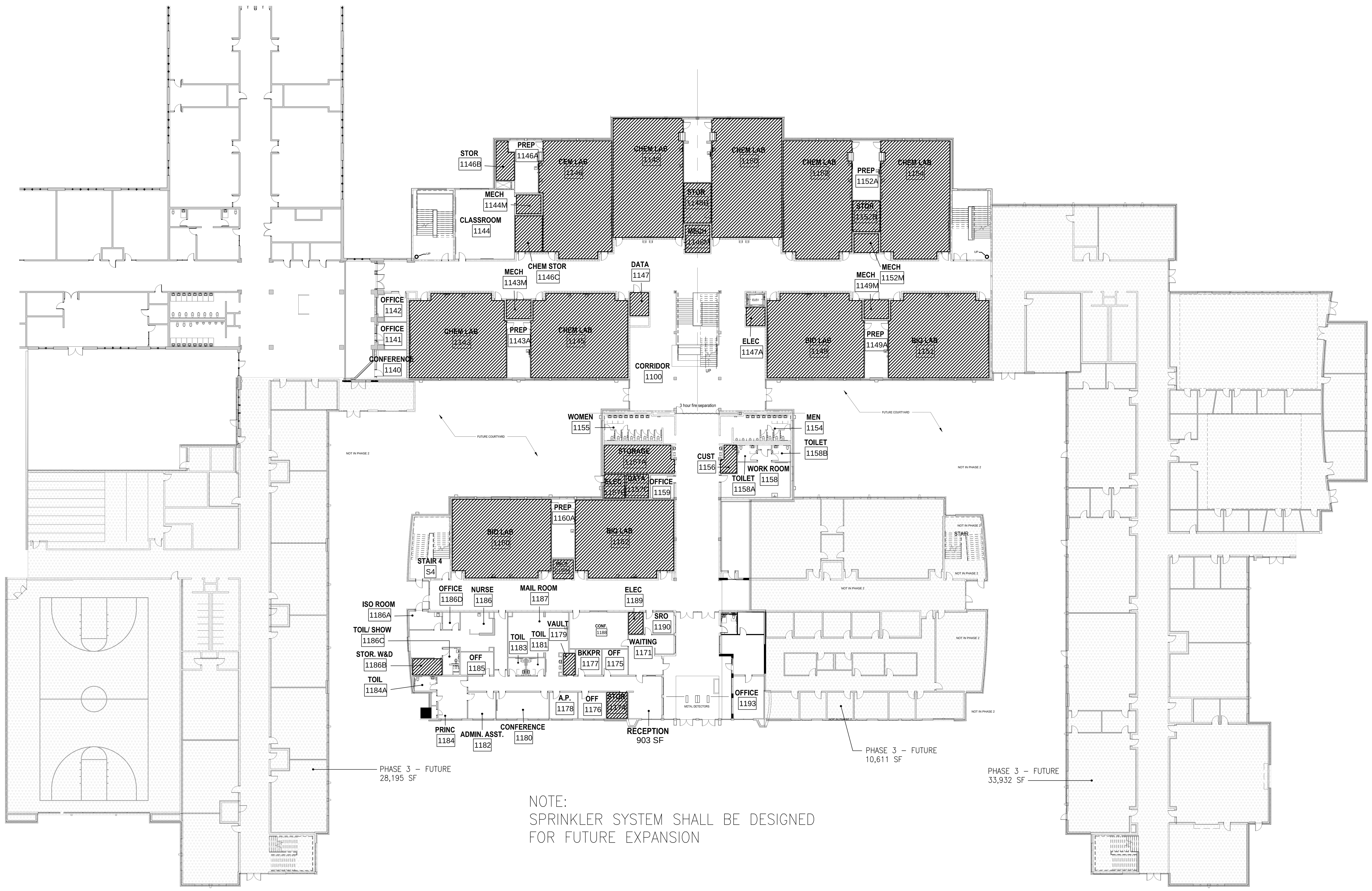
PRINCIPAL IN CHARGE:	WEM
PROJECT ARCHITECT:	RC
DRAWN BY:	ARL

SHEET TITLE:
FIRE PROTECTION PLAN - PHASE 2 LEVEL 1000

SHEET NO.
FP101

PROJ. NO.
020420.00



NOTE:
SPRINKLER SYSTEM SHALL BE DESIGNED FOR FUTURE EXPANSION

1 FP102 FIRE PROTECTION PLAN – PHASE 2 LEVEL 1100
NTS

LEGEND

	SPRINKLER COVERAGE ALL AREAS ARE LIGHT HAZARD, UNLESS NOTED OTHER WISE. DENSITY: 0.10 GPM/FT² AREA: 1500 FT² HOSE ALLOWANCE: 100 GPM
(hatched)	SPRINKLER COVERAGE ORDINARY GROUP 1, DENSITY: 0.15 GPM/FT² AREA: 1500 FT² HOSE ALLOWANCE: 250 GPM
(dotted)	THESE AREAS ARE DESIGNATED AS FUTURE PHASE 3

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

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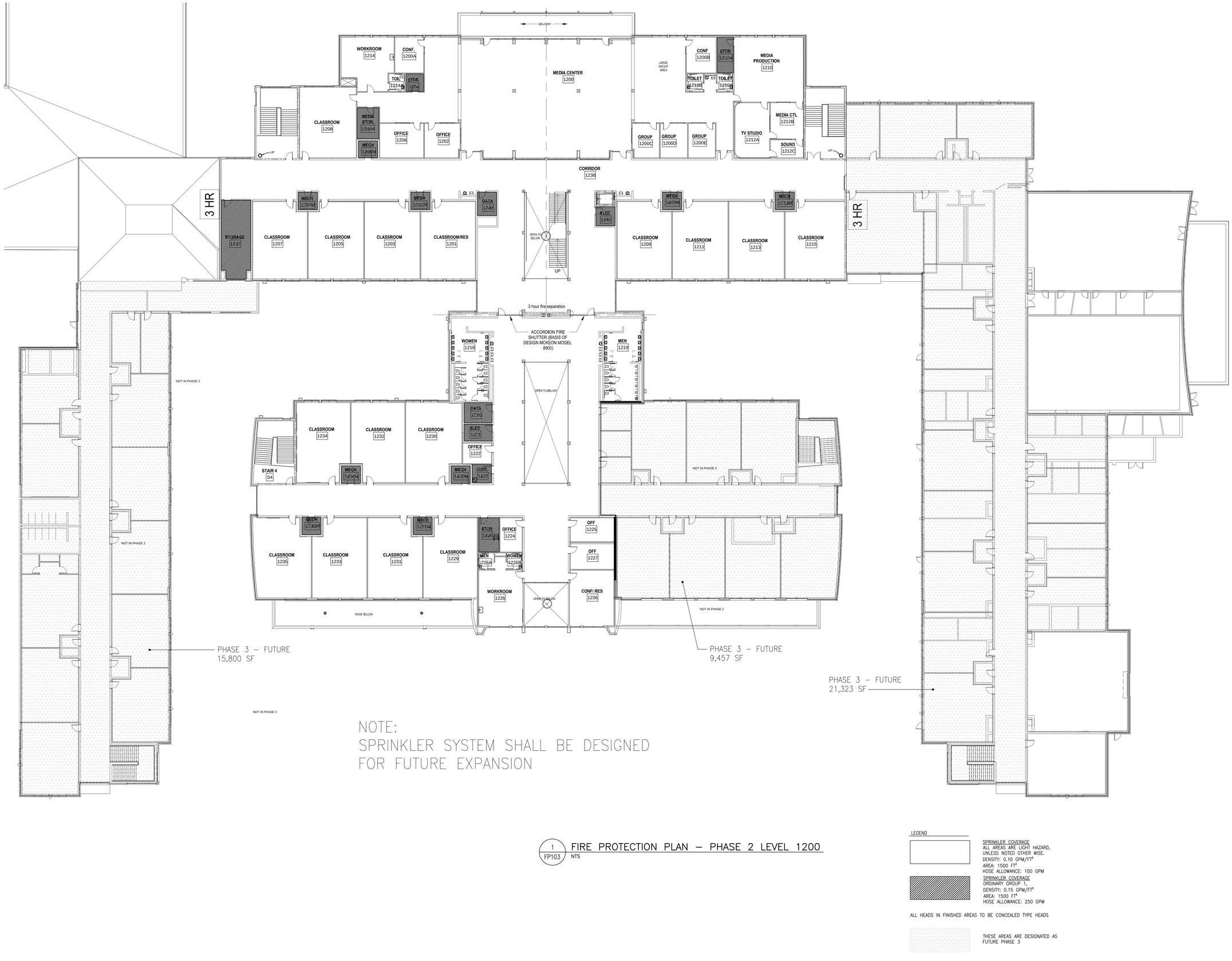
C	06-01-2022	GMP SET	WEM

PRINCIPAL IN CHARGE: WEM
PROJECT ARCHITECT: RC
DRAWN BY: ARL

SHEET TITLE:
FIRE PROTECTION PLAN - PHASE 2 LEVEL 1100

SHEET NO. PROJ. NO. 020420.00

FP102



NOTE:
SPRINKLER SYSTEM SHALL BE DESIGNED FOR FUTURE EXPANSION

1 FP103 FIRE PROTECTION PLAN – PHASE 2 LEVEL 1200
NTS

LEGEND

SPRINKLER COVERAGE
ALL AREAS ARE LIGHT HAZARD, UNLESS NOTED OTHER WISE.
DENSITY: 0.10 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 100 GPM

SPRINKLER COVERAGE
ORDINARY GROUP 1.
DENSITY: 0.15 GPM/FT²
AREA: 1500 FT²
HOSE ALLOWANCE: 250 GPM

ALL HEADS IN FINISHED AREAS TO BE CONCEALED TYPE HEADS

THESE AREAS ARE DESIGNATED AS FUTURE PHASE 3

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

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PRINCIPAL IN CHARGE: WEM
PROJECT ARCHITECT: RC
DRAWN BY: ARL

SHEET TITLE:

FIRE PROTECTION PLAN - PHASE 2 LEVEL 1200

SHEET NO. FP103

PROJ. NO. 020420.00

GENERAL NOTES

1	ALL LINE VOLTAGE ELECTRICITY SHALL BE PROVIDED AND INSTALLED BY E.C.
2	ALL VOICE SERVICES, DATA SERVICES, COMPUTER NETWORKING SERVICES AND CABLING FOR SAID SERVICES SHALL BE PROVIDED BY OTHERS.
3	ALL FREE AIR CABLING SHALL BE PLENUM RATED.
4	ALL DEVICE PLATES MOUNTED IN INTERIOR WALL SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.
5	ALL DEVICE PLATES MOUNTED INSIDE FLOOR BOXES SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.
6	ALL DEVICE PLATES SHALL BE STANDARD SIZE U.N.O.

SYMBOL LEGEND

XX XXXX	BACK BOX AND FACE PLATE IDENTIFIER
1"C & (2) 1-1/2"C	EMPTY LOW VOLTAGE CONDUIT WITH PULL STRING. E.C. TO PROVIDE SIZE & QUANTITY INDICATED. CONDUIT TO BE (1) 1"C IF NO NOTATION GIVEN. LINE DOES NOT IMPLY HOW CONDUIT IS TO BE ROUTED. ROUTE CONDUIT AS REQUIRED IN FIELD.
IG	E.C. SUPPLIED CIRCUIT(S). ARROWS DENOTE QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF CONDUCTORS PER CIRCUIT. ALL CONDUCTORS TO BE 20A 120VAC CONDUCTORS UNLESS NOTED OTHERWISE. ALL RUNS TO INCLUDE GROUNDING CONDUCTOR WHICH IS NOT INCLUDED IN THE CROSSMARKS. RUNS DEVOID OF CROSSMARKS ARE TO CONTAIN (2) 20A 120VAC CONDUCTORS & (1) GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE. "IG" INDICATES ISOLATED GROUNDING CONDUCTOR.
PB	PULL BOX SUPPLIED BY E.C. SIZE AS REQUIRED. LOCATE BOX IN ACCESSIBLE AREA.
	CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING IN ROOM WHERE SYMBOL IS SHOWN, UNO
	WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT
	CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT
	20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT MOUNTED IN FLOOR BOX
IG	WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT
IG	CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT
IG	20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND MOUNTED IN FLOOR BOX ON DEDICATED 20A CIRCUIT
	RADIO FREQUENCY TRANSMISSION SYSTEM
XX	SHEET KEYNOTE IDENTIFIER. SEE SHEET KEYNOTE WITH CORRESPONDING NUMBER "XX". NOTES CAN BE FOUND IN THE SHEET KEYNOTES TABLE ON PAGE WHERE IDENTIFIER APPEARS.

ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AV	AUDIO VISUAL
BLW CLG	BELOW CEILING
BOS	BOTTOM OF STEEL
CKT	CIRCUIT
EC	ELECTRICAL CONTRACTOR
IR	INFRARED
MC	METAL-CLAD
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PROSC	PROSCENIUM
PSC	PRESENTATION SYSTEMS CONTRACTOR
RCP	REFLECTED CEILING PLAN
SL	STAGE LEFT
SR	STAGE RIGHT
UNO	UNLESS NOTED OTHERWISE
VAC	VOLTS-ALTERNATING CURRENT

CONVENTIONS

SWITCH X — 1 P3.1 — 1"C & (2) 1-1/2"C — TO 12 SD1.1

- BACK BOX AND FACEPLATE IDENTIFIER - - THE BACKBOX SIZE, RESPONSIBILITY, AND MOUNTING HEIGHT CAN BE FOUND WITH ITS CORRESPONDING FACEPLATE IN DRAWING SECTION EPS-2.
- LINE VOLTAGE CIRCUIT HOMERUN W/ CIRCUIT COUNT. IDENTIFIER AT END OF ARROWS INDICATES FEEDING DEVICE.
- SIZE & QUANTITY OF LOW VOLTAGE CONDUIT. PARENTHESES INDICATE QUANTITY.
- LOCATION POINT OF BACKBOX
- FACEPLATE IDENTIFIER AS DETAILED IN DRAWING SECTION EPS-5
- CIRCUIT NUMBER IDENTIFICATION (LP= LIGHTING CIRCUIT SWITCH PLATE)
- BACK BOX IDENTIFIER (SEE BACK BOX IDENTIFIER LEGEND BELOW)

BACK BOX IDENTIFIER LEGEND

1	SINGLE GANG BACK BOX - MINIMUM DEPTH 3"
2	TWO GANG BACK BOX - MINIMUM DEPTH 3"
3	THREE GANG BACK BOX - MINIMUM DEPTH 3"
4	FOUR GANG BACK BOX - MINIMUM DEPTH 3"
5	SURFACE MOUNTED WIRE TROUGH
6	HOFFMAN 8" X 8" X 4" SCREW COVER PULL BOX
7	FLOOR BOX
8	CEILING SPEAKER
9	EQUIPMENT RACK
10	PROJECTION SCREEN
11	LOW VOLTAGE SCREEN CONTROLLER
12	CEILING MOUNTED PROJECTOR
C	WINDOW SHADE 4 CHANNEL CONTROLLER

CONTENTS - SET FOR REVIEW AND COORDINATION ONLY

A1 AV100 **LEGEND**
N.T.S.

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
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PRINCIPAL IN CHARGE: Approver MLC
PROJECT ARCHITECT: Checker RPC
DRAWN BY: Author JSE

SHEET TITLE:
PHASE 2 - 1200 LEVEL MEDIA LAB AV LEGEND

SHEET NO. PROJ. NO. 020420.00

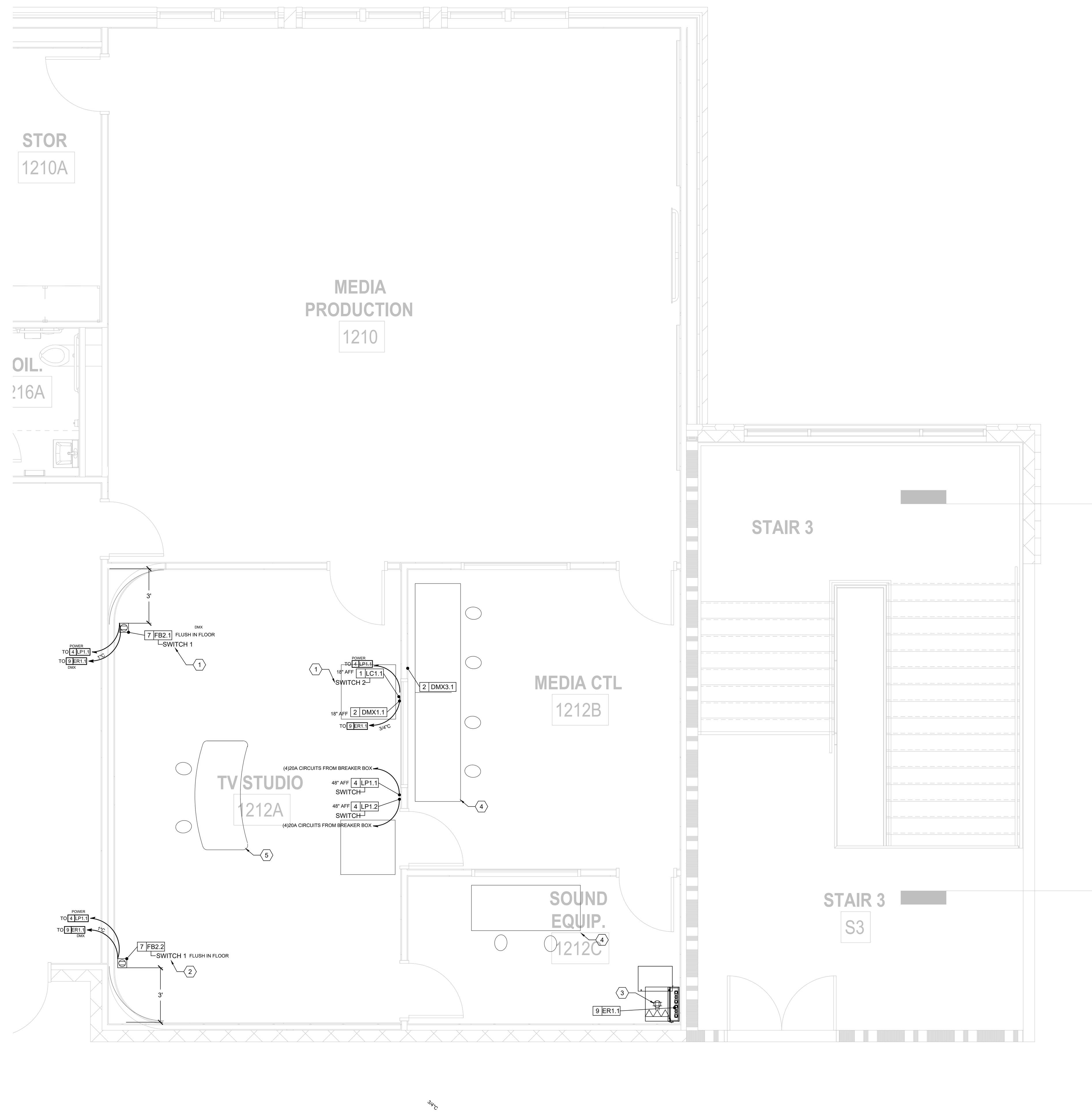
AV100

SHEET KEY NOTES (XX)

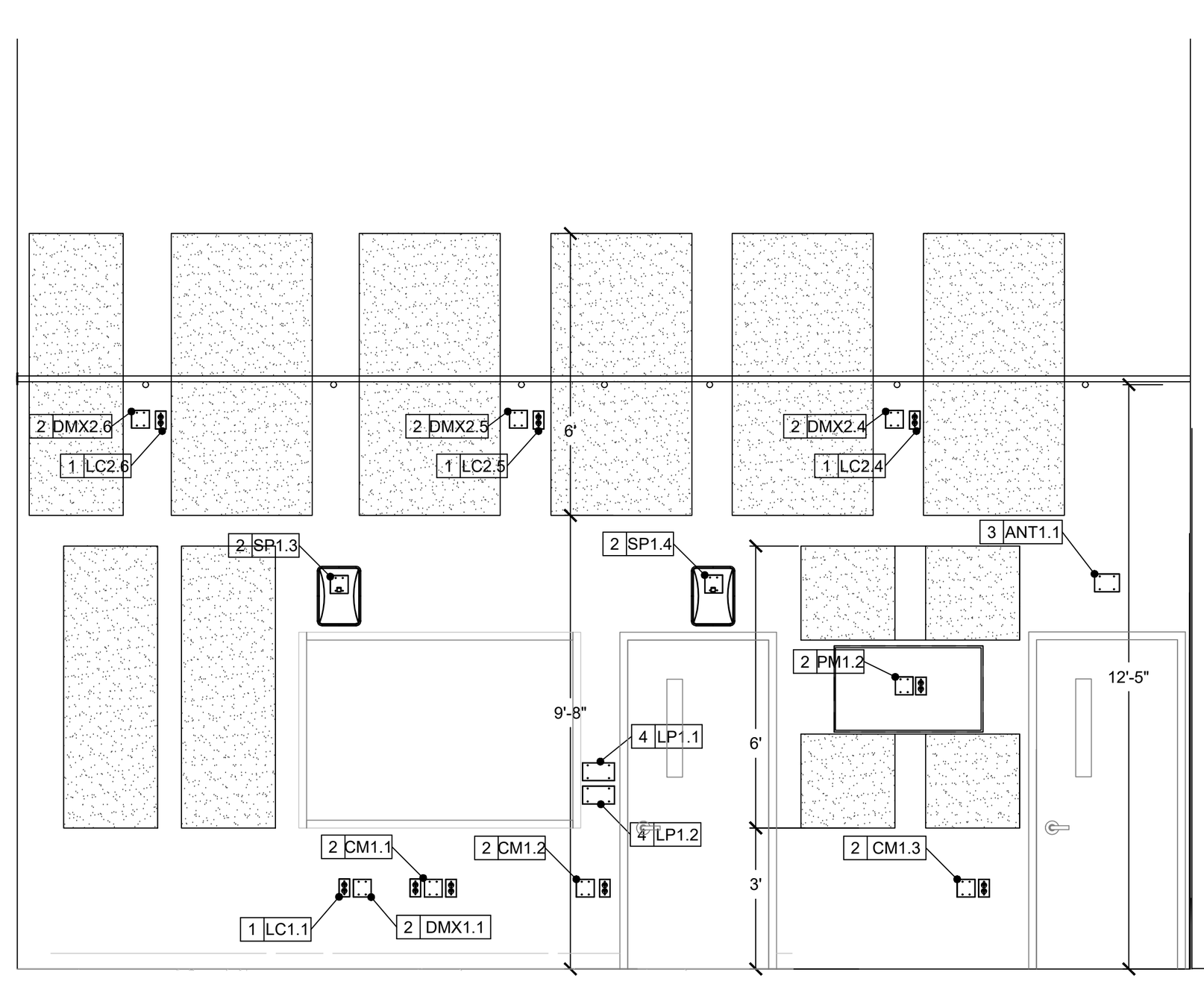
1. ELECTRICAL RECEPTACLE MOUNTED 4' AFF
2. ELECTRICAL RECEPTACLE MOUNTED 4" ABOVE FINISHED COUNTERTOP
3. (2) 20A 120VAC CIRCUITS FEEDING QUAD RECEPTACLS INSTALLED BY EC INSIDE RACK BACK PAN
4. OWNER FURNISHED TABLE FOR PRODUCTION EQUIPMENT. 72"X30"X28"H
5. OWNER FURNISHED STUDIO DESK. SIZE T.B.D.

◁ OWNER FURNISHED DATA PORT

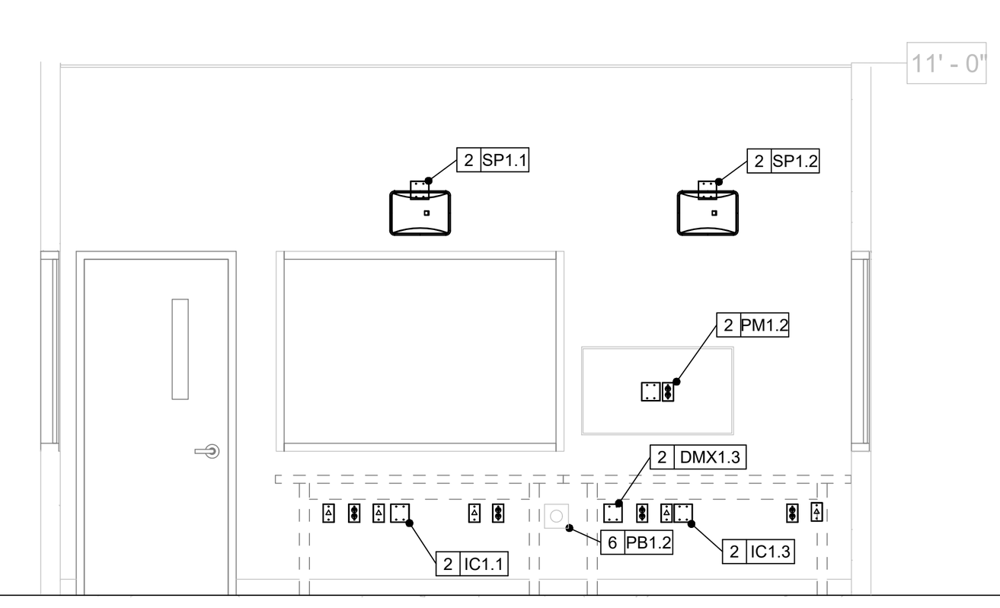
A1 AV101 **AV FLOOR PLAN - AUDIO**
1/8" = 1'



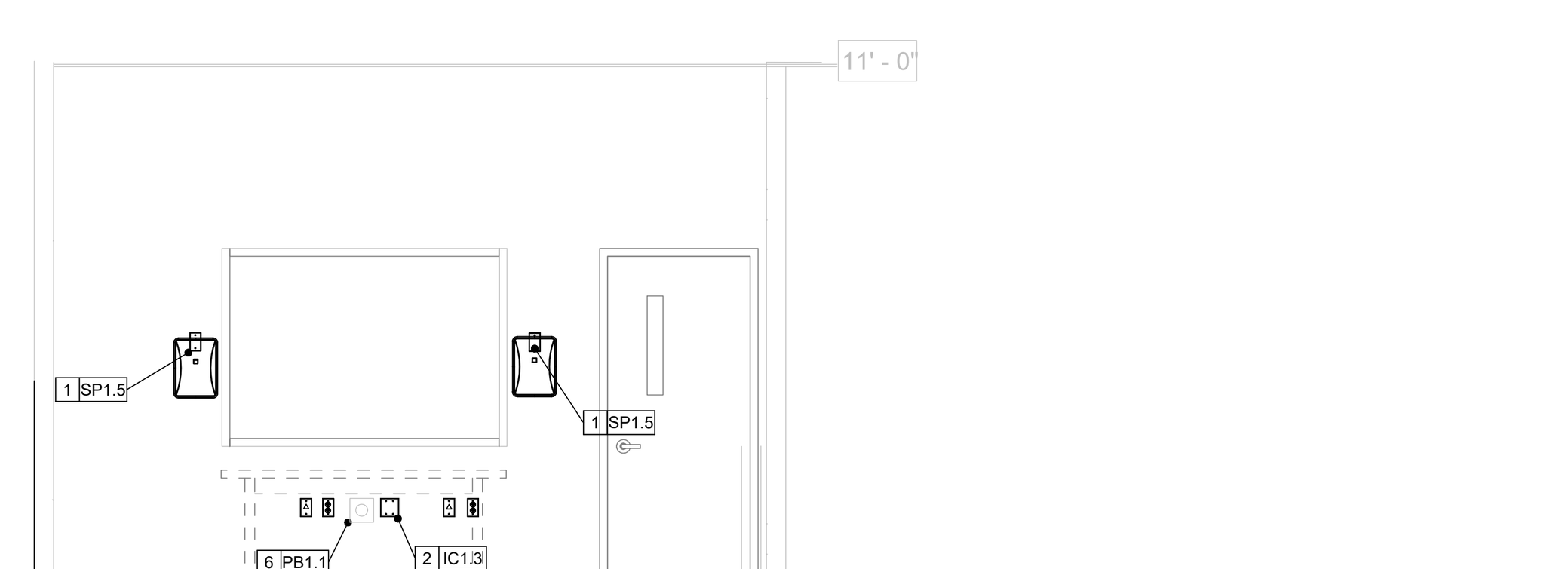
A1 AV101 **AV FLOOR PLAN - PRODUCTION LIGHTING**
1/8" = 1'



A1 AV101 **AV STUDIO WALL ELEVATION - SCHEMATIC**
1/4" = 1'

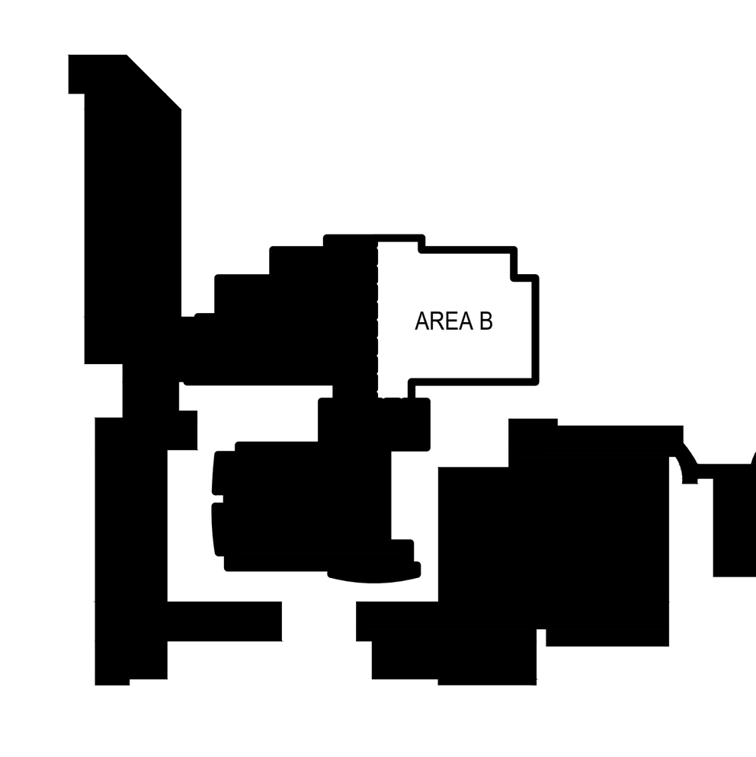


A2 AV101 **AV MEDIA CONTROL ELEVATION - SCHEMATIC**
1/4" = 1'



A3 AV101 **AV SOUND CONTROL ELEVATION - SCHEMATIC**
1/4" = 1'

KEY PLAN



PROJECT NORTH

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SEALS

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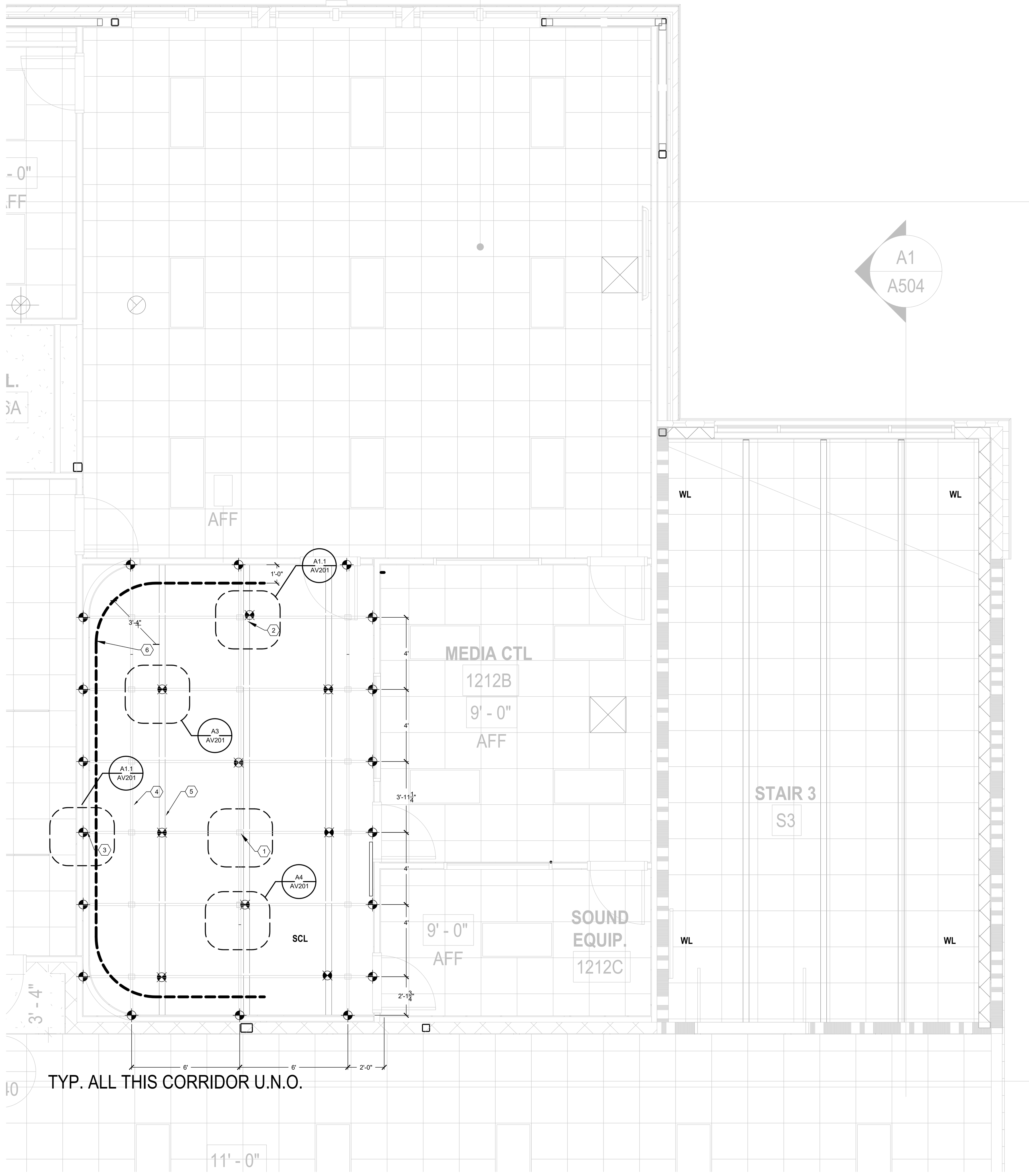
SHEET TITLE:
PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOOR PLAN

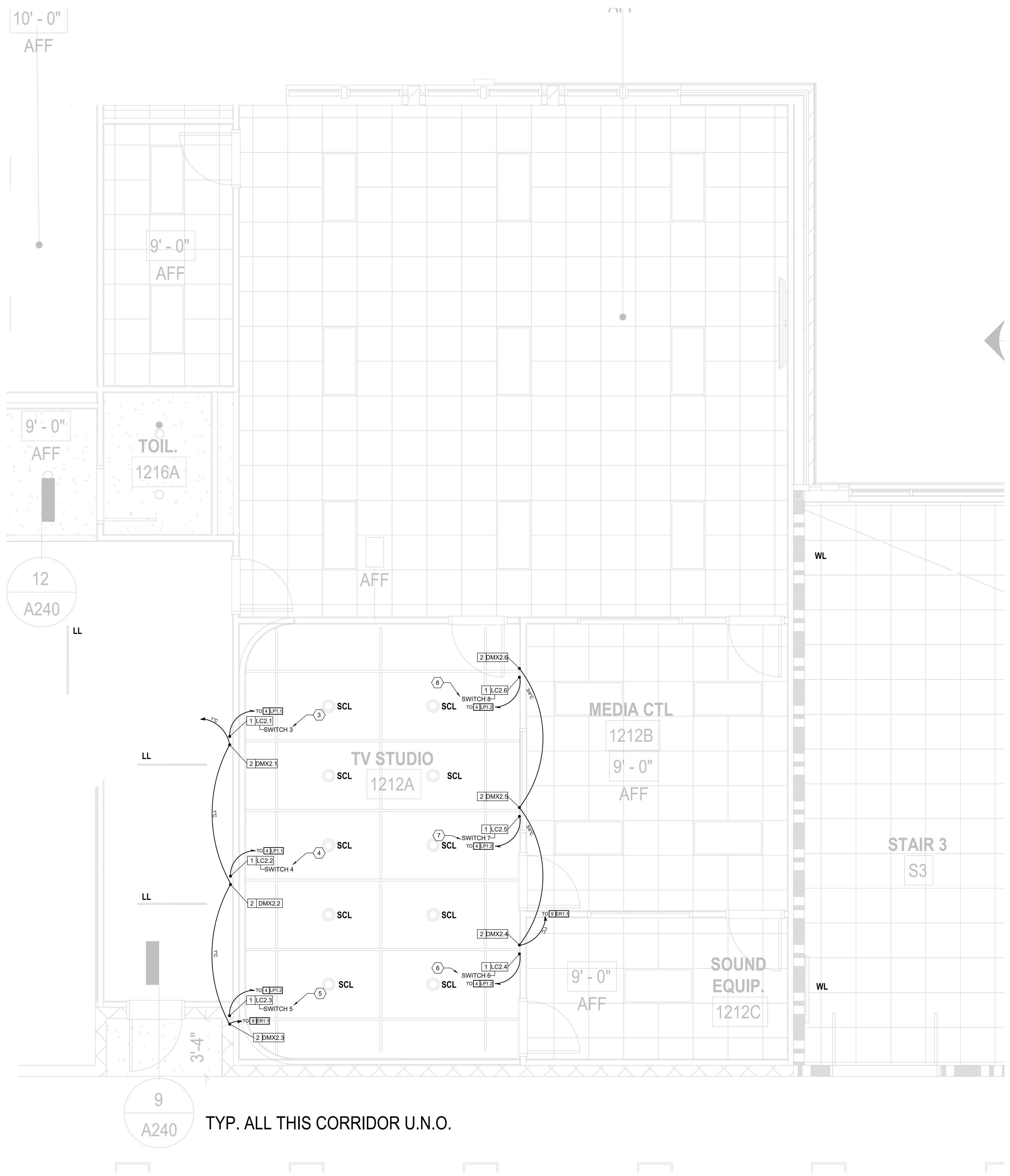
SHEET NO. PROJ. NO. 020420.00

AV101



TYP. ALL THIS CORRIDOR U.N.O.

B1 AV201 **REFLECTED CEILING PLAN - GRID**
N.T.S.



9 A240 TYP. ALL THIS CORRIDOR U.N.O.

B3 AV201 **REFLECTED CEILING PLAN - LIGHTING**
N.T.S.

SHEET KEY NOTES

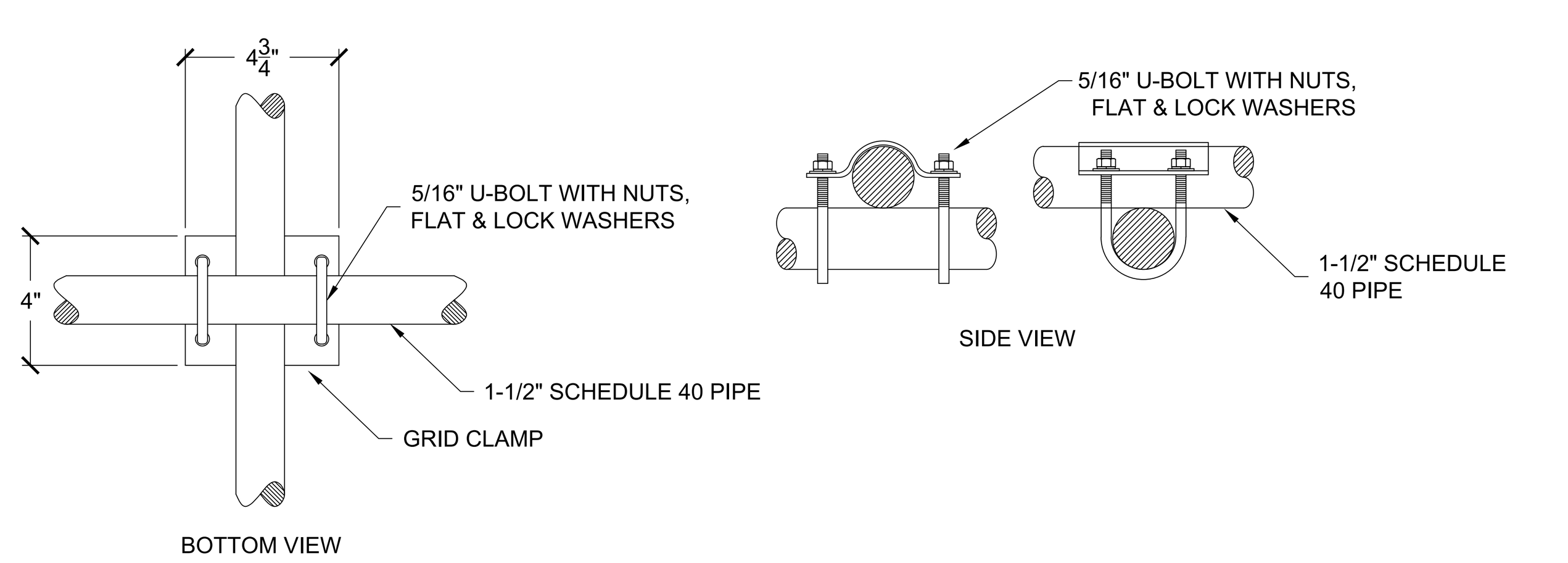
1. PIPE CROSSINGS TO BE CLAMPED TOGETHER USING GRID CLAMPS (TYPICAL OF 18 GRID CLAMPS ON 18 PIPE CROSSINGS)
2. INDICATES RIGGING POINT (ON ~ 8' CENTERS) TO STRUCTURAL BEAMS ABOVE FLOOR. PIPE GRID SUSPENDED FROM STRUCTURE USING SUSPENSION CLAMPS (TYPICAL OF 9 CLAMPS ON 9 RIGGING POINTS). TYPICAL LOAD 150 LBS PER POINT.
3. INDICATES RIGGING POINT TO WALL. PIPE ENDS MOUNTED TO WALL USING WALL FLANGE (TYPICAL OF 18)
4. 1-1/2" SCHEDULE 40 PIPE
5. APPROXIMATE LOCATION OF ROOF BEAMS
6. WALK ALONG CURTAIN TRACK ATTACHED TO BOTTOM OF GRID

NOTES

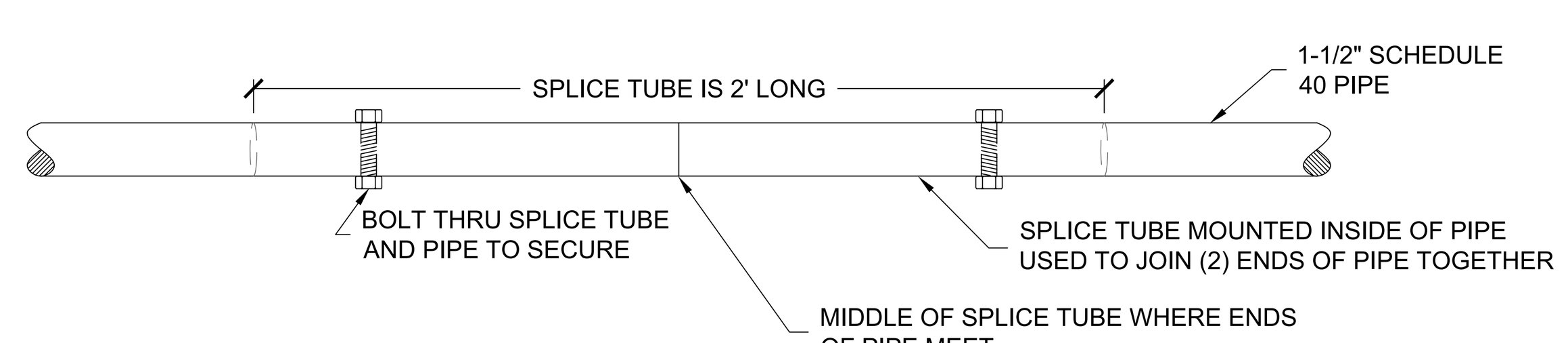
1. BOTTOM OF PIPE GRID MOUNTED 12' - 6" ABOVE FINISHED FLOOR

SHEET KEY NOTES

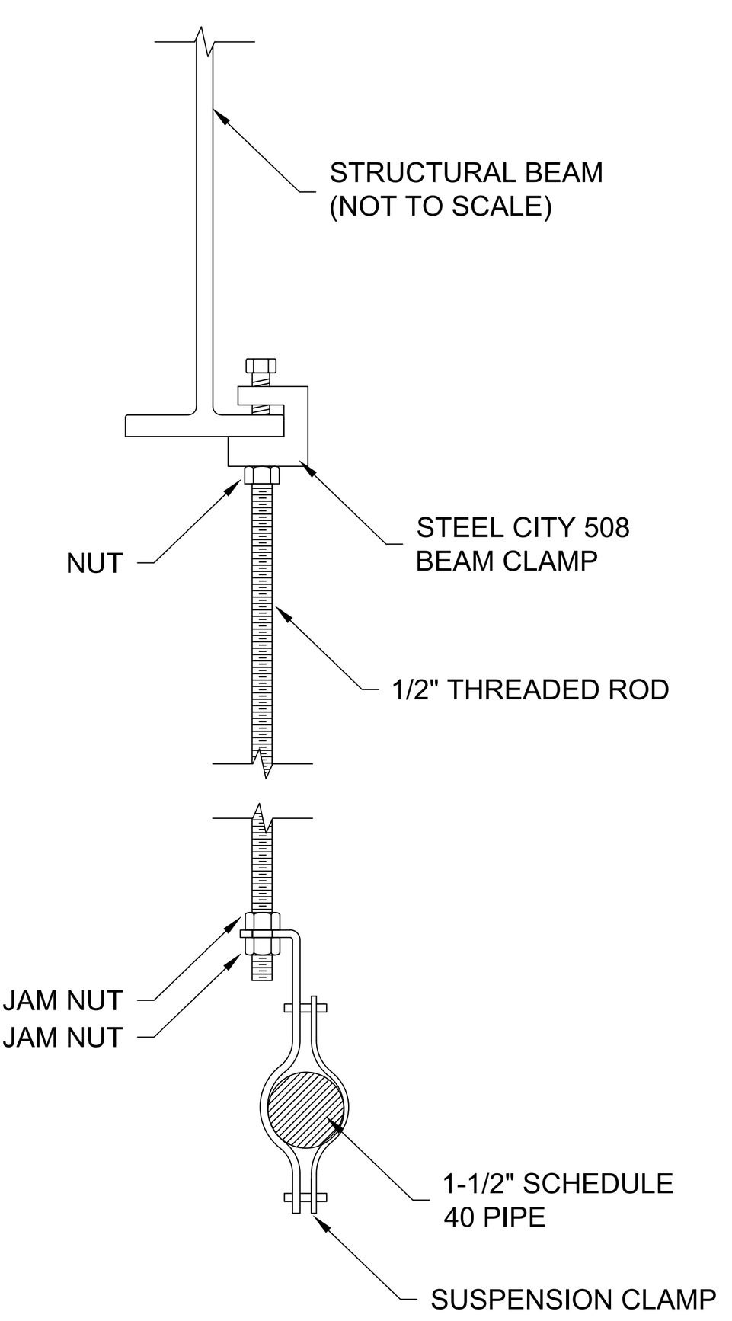
7. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #3 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS
8. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #4 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS
9. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #5 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS
10. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #6 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS
11. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #7 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS
12. 1 EA 20 AMP SWITCHED DUPLEX RECP WITH DEDICATED CIRCUIT FOR VIDEO LIGHTING CKT #8 BY E.C. ROUTE TO WALL SWITCH IN ROOM C126 PER E-SHEETS



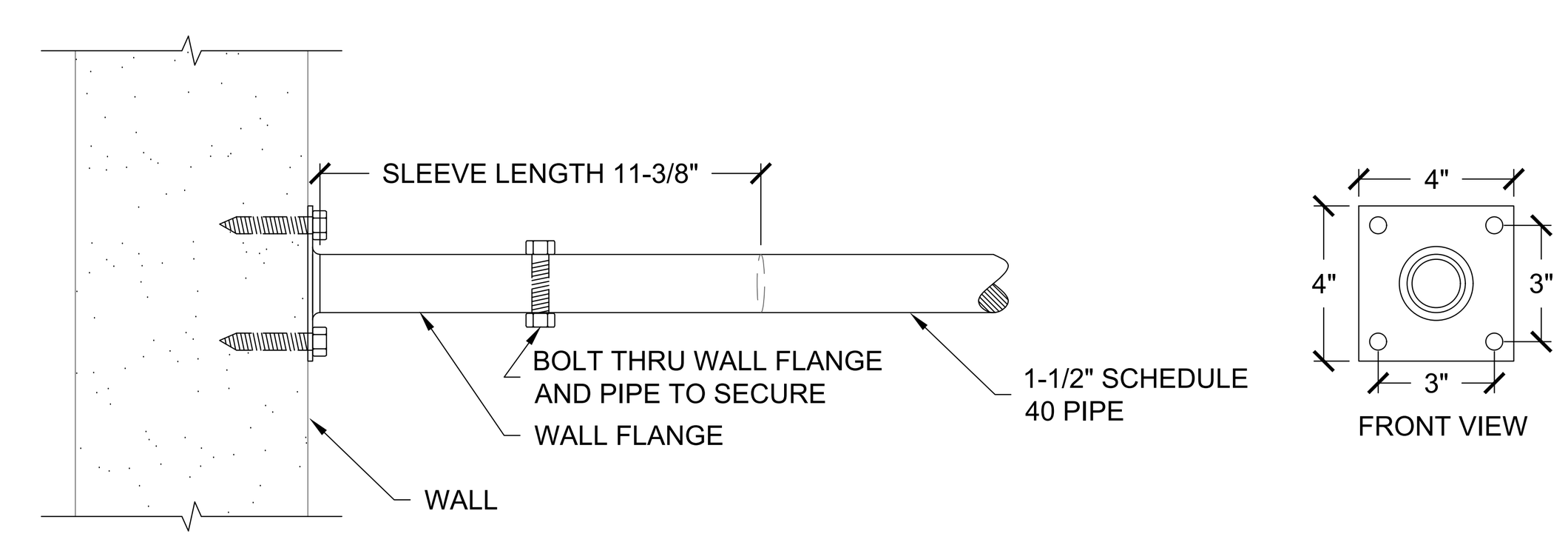
A1.1 AV201 **SSRC GC-GRID CLAMP MOUNTING DETAIL**
3"=1'



A1.2 AV201 **SSRC PIPE SPLICES - SPLICE TUBE MOUNTING DETAIL**
3"=1'



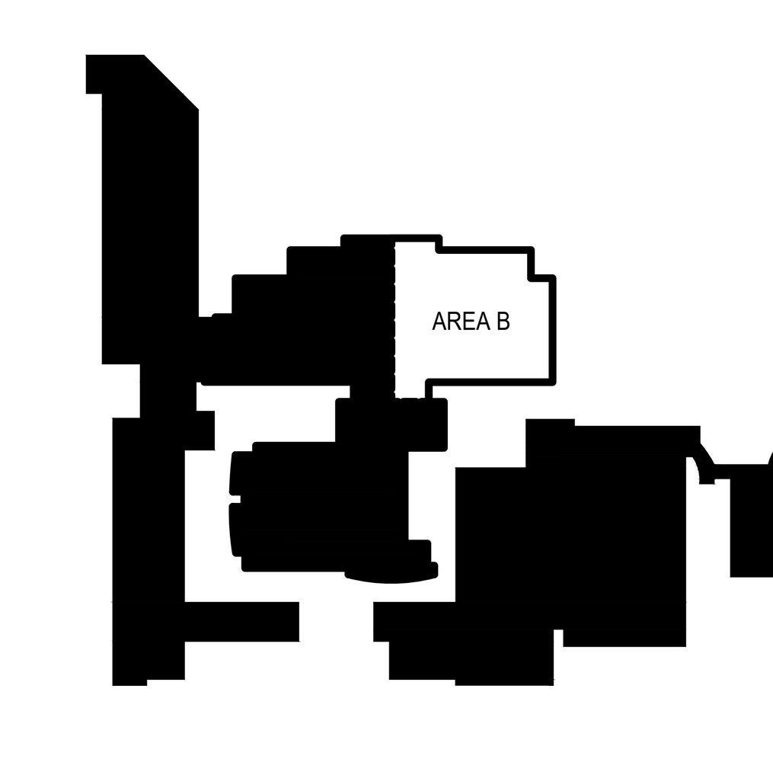
A3 AV201 **PRODUCTION GRID DETAILS**
3" = 1'



A4 AV201 **SSRC WF - WALL FLANGE MOUNTING DETAIL**
3" =1'

A1 AV201 **PRODUCTION GRID DETAILS**
3"=1'

KEY PLAN



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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

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B	02/28/22	DD PRICING	MLC
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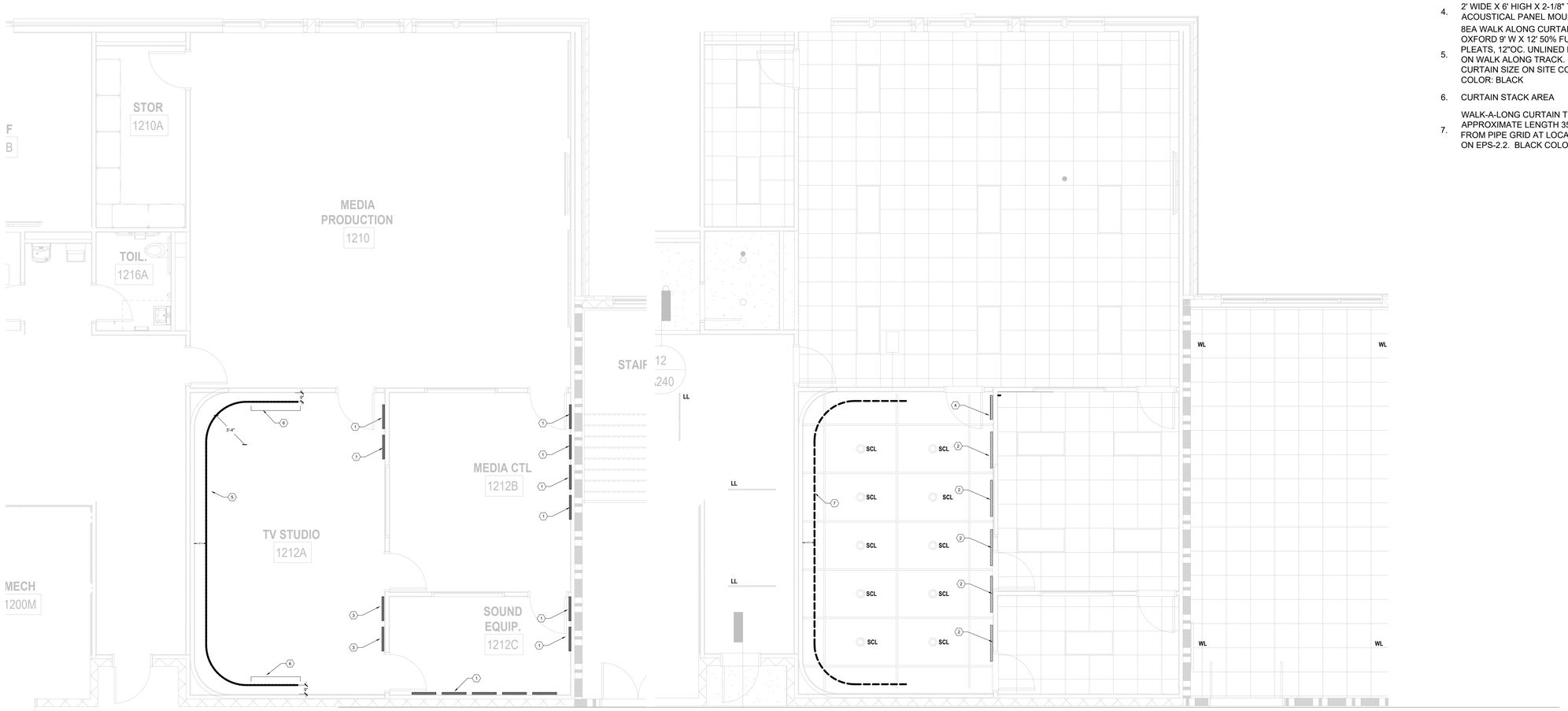
PRINCIPAL IN CHARGE: Approver
PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
PHASE 2 - 1200 LEVEL
MEDIA LAB AV
RCP

SHEET NO. PROJ. NO. 020420.00

AV201

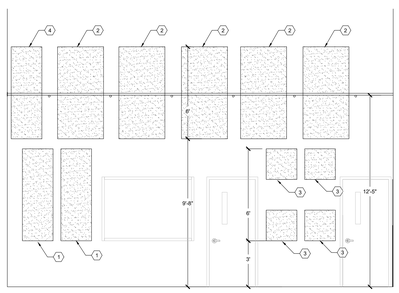


SHEET KEY NOTES (XX)

1. 2' WIDE X 6' HIGH X 2-1/8" THICK ACOUSTICAL PANEL MOUNTED 3' AFF
2. 3' WIDE X 6' HIGH X 2-1/8" THICK ACOUSTICAL PANEL MOUNTED 9'-8" AFF
3. 2' WIDE X 2' HIGH X 2-1/8" THICK ACOUSTICAL PANEL MOUNTED 3' AFF
4. 2' WIDE X 6' HIGH X 2-1/8" THICK ACOUSTICAL PANEL MOUNTED 9' -8" AFF
5. 8EA WALK ALONG CURTAIN LEGS- ATLAS OXFORD 9' W X 12' 50% FULLNESS, BOX PLEATS, 12"OC. UNLINED LEGS CURTAINS ON WALK ALONG TRACK. VERIFY CURTAIN SIZE ON SITE CONDITIONS. COLOR: BLACK
6. CURTAIN STACK AREA
7. WALK-A-LONG CURTAIN TRACK. APPROXIMATE LENGTH 35', SUSPEND FROM PIPE GRID AT LOCATION SHOWN ON EPS-2.2. BLACK COLOR.

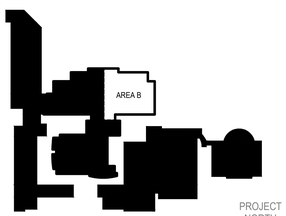
B1 / AV301 — **AV FLOOR PLAN - ACOUSTICS**
1/4" = 1'

B3 / AV301 — **AV REFLECTED CEILING - ACOUSTICS**
1/4" = 1'



B1 / AV301 — **STUDIO ELEVATION - ACOUSTIC PANEL LAYOUT SCHEMATIC**
1/4" = 1'

KEY PLAN



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SPARTANBURG SCHOOL DISTRICT FIVE

JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION

150 E. MAIN STREET
DUNCAN, SC 29334

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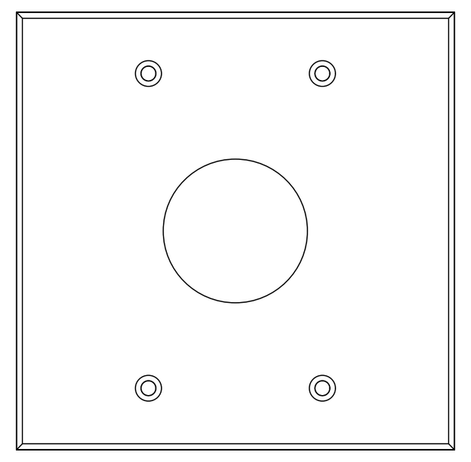
PROJECT ARCHITECT: Checker RF
DRAWN BY: Author JS

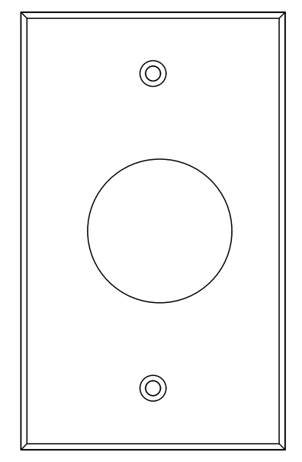
SHEET TITLE:
PHASE 2 - 1200 LEVEL
MEDIA LAB
ACOUSTICS PLAN

SHEET NO. AV301

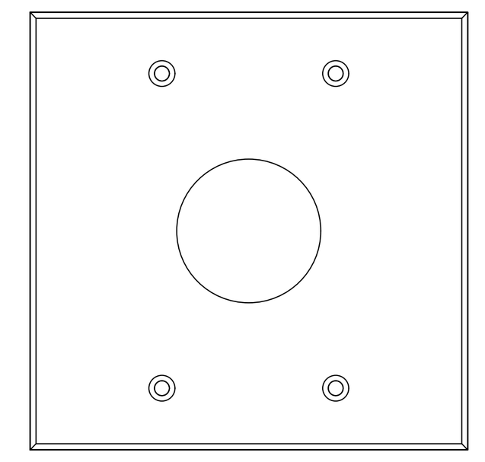
PROJ. NO. 020420.00



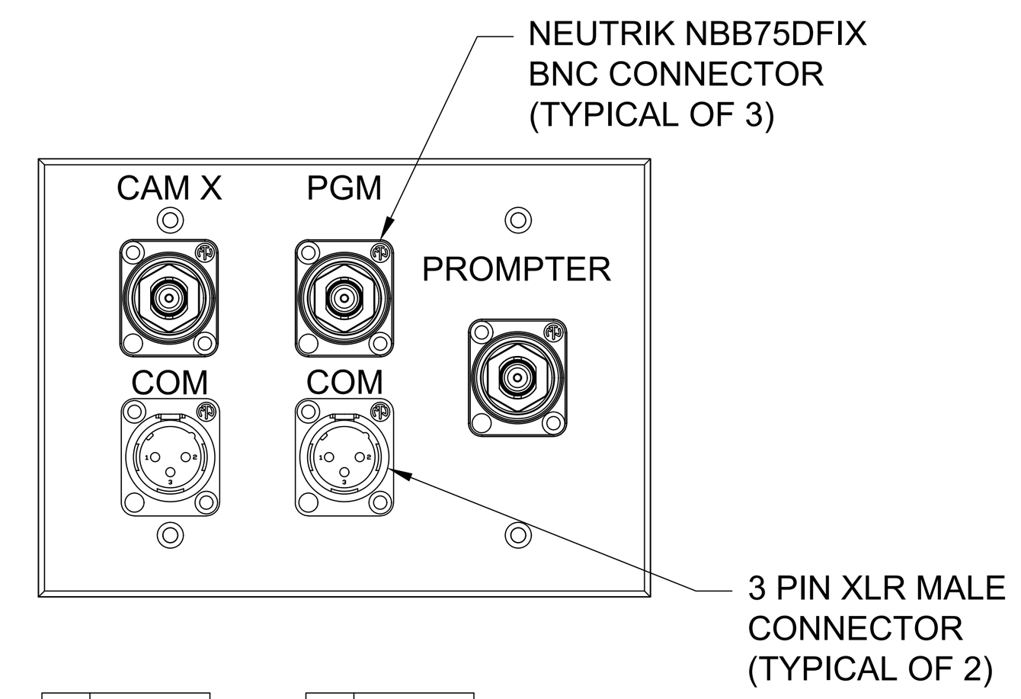
2 SP1.1 THRU 2 SP1.4
PROGRAM SPEAKERS PASS THRU PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 8' AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



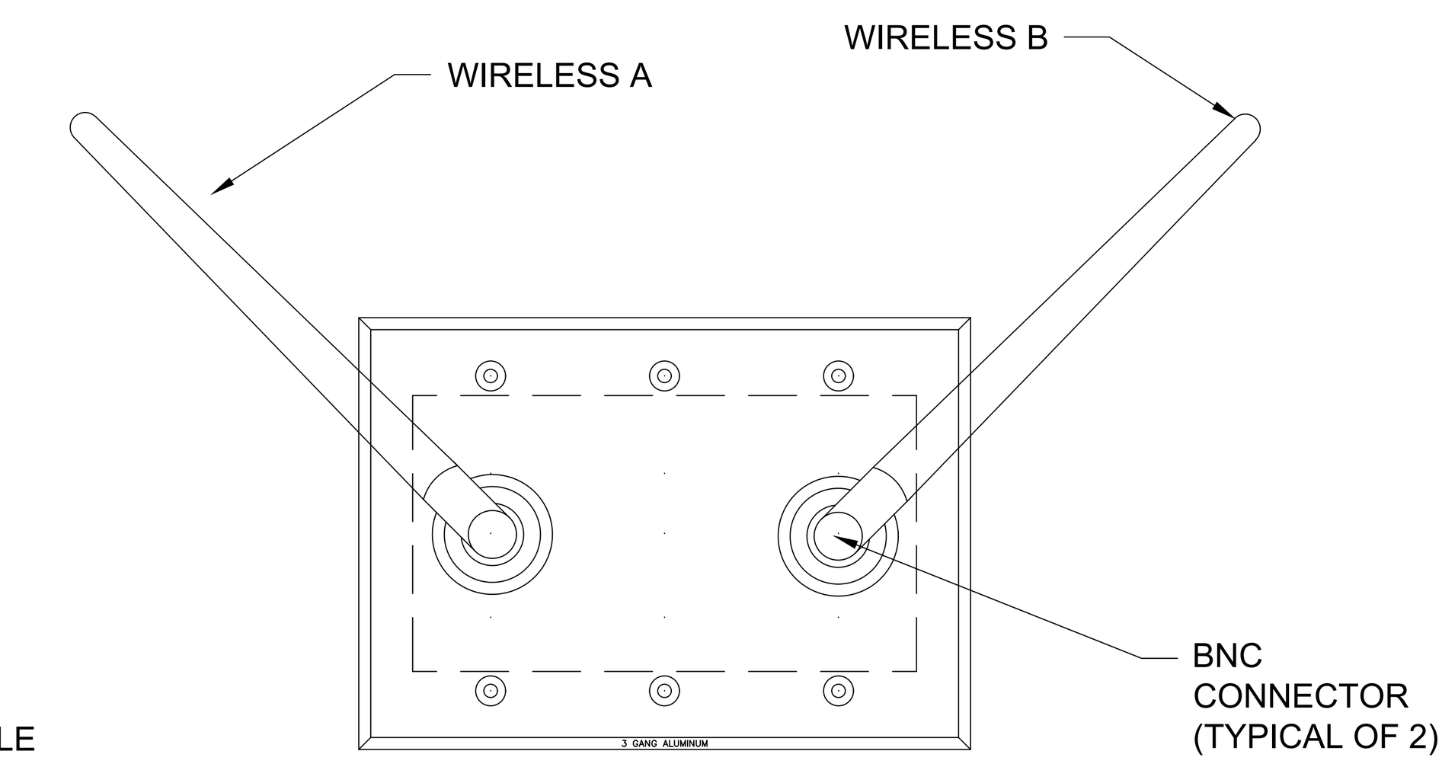
1 SP1.5 THRU 1 SP1.6
PROGRAM SPEAKERS PASS THRU PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 5' AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



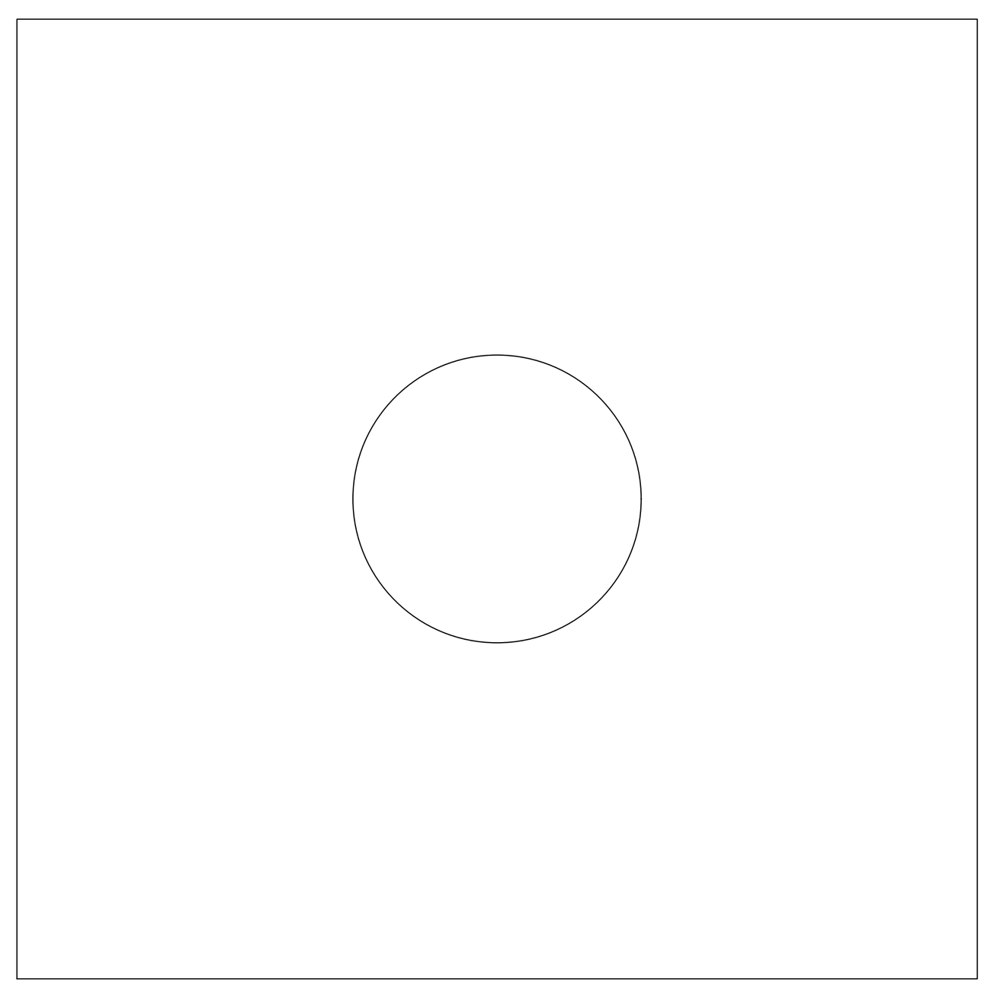
2 PM1.1 THRU 2 PM1.4
PGM VIDEO MONITOR PASS THRU PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 5' 8" AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



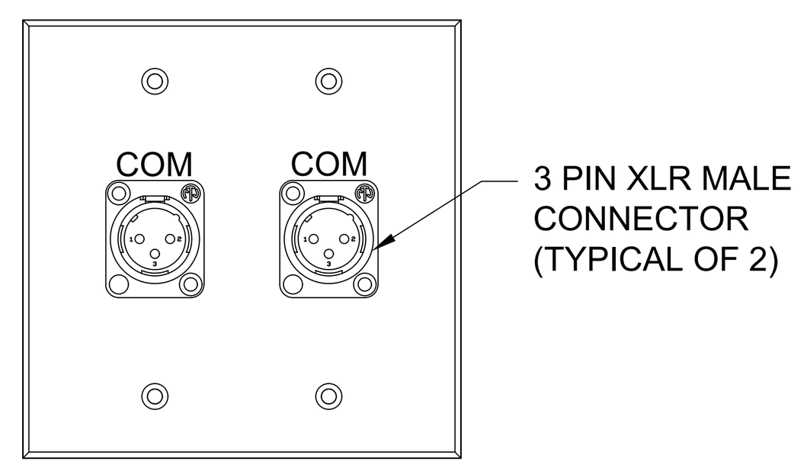
3 CM1.1 THRU 3 CM1.3
PRODUCTION CAMERA PLATE
REQUIRES 3 GANG BACKBOX MOUNTED RECESS FLUSH 18" AFF
BACK BOX PROVIDED AND INSTALLED BY E.C.
FACEPLATE PROVIDED AND INSTALLED BY PSC



3 ANT1.1
ANTENNA CONNECTOR PLATE
THREE GANG BACK BOX FLUSH MOUNT 84" AFF
BACK BOX PROVIDED AND INSTALLED BY E.C.
FACE PLATE PROVIDED AND INSTALLED BY P.S.C.

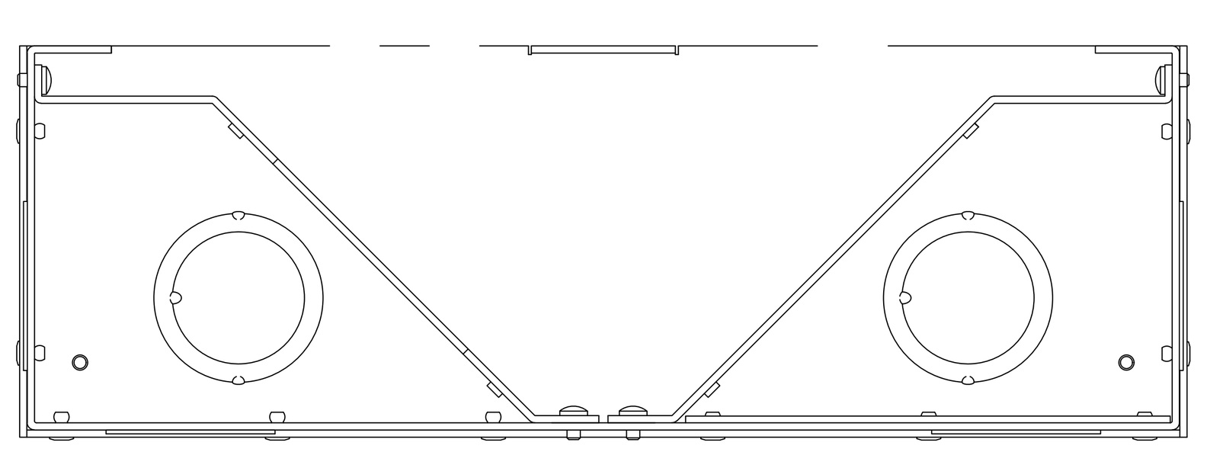


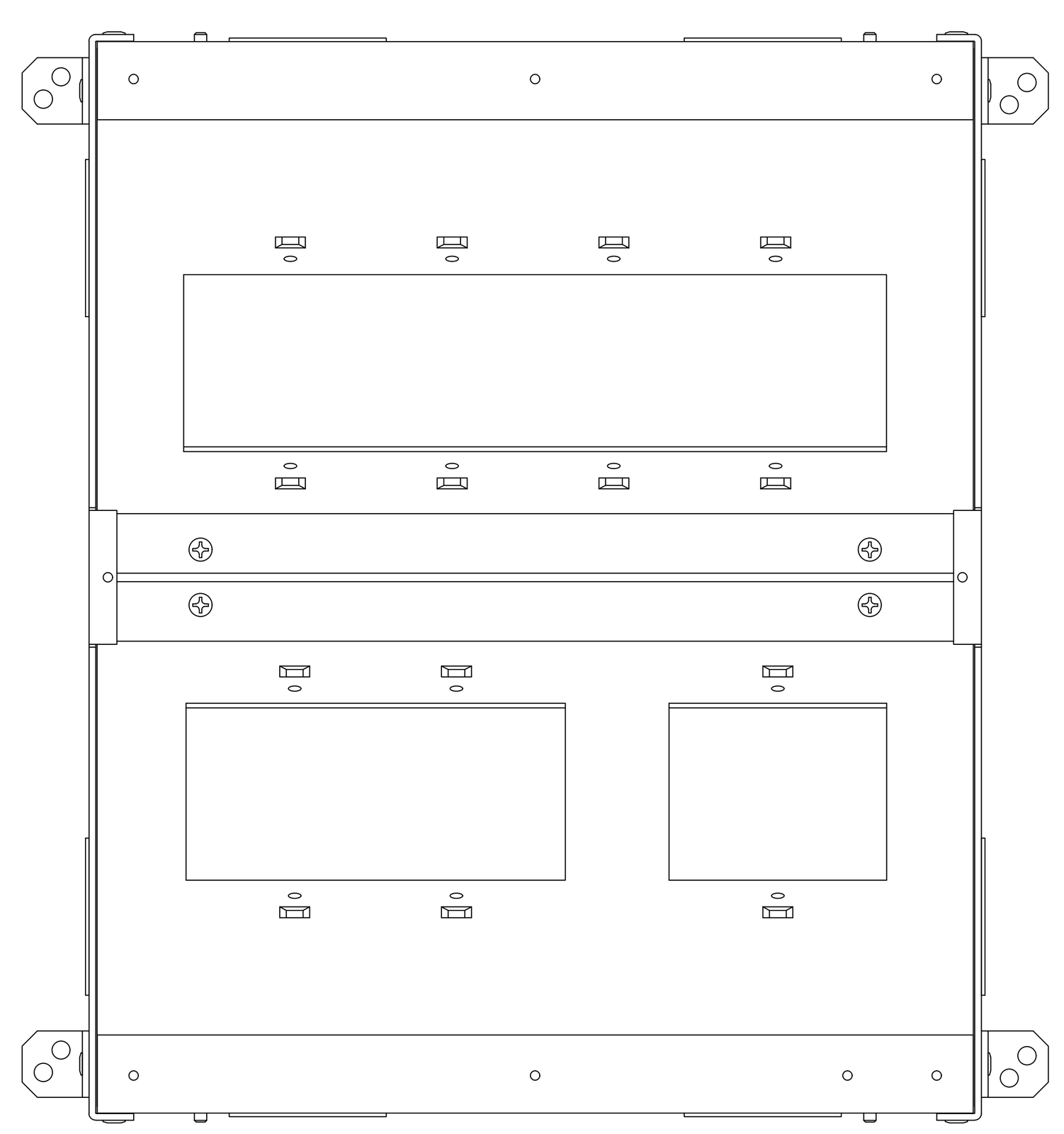
6 PB1.1 THRU 6 PB1.2
CABLE PASS THRU PLATE
REQUIRES 8"X8" HOFFMAN PULL BOX RECESS FLUSH MOUNTED 18" AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



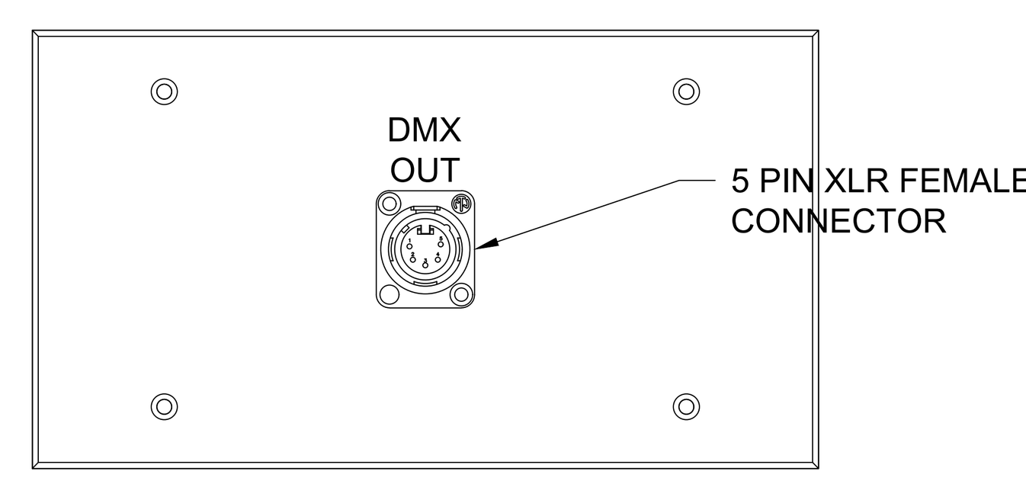
2 IC1.1 THRU 2 IC1.3
INTERCOM PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 18" AFF
BACK BOX PROVIDED AND INSTALLED BY E.C.
FACEPLATE PROVIDED AND INSTALLED BY PSC

C1 AV401 AV WALL PLATE DETAILS
N.T.S.

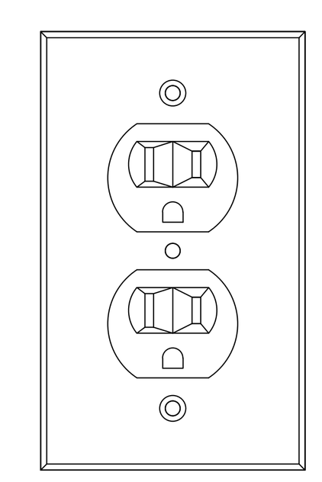




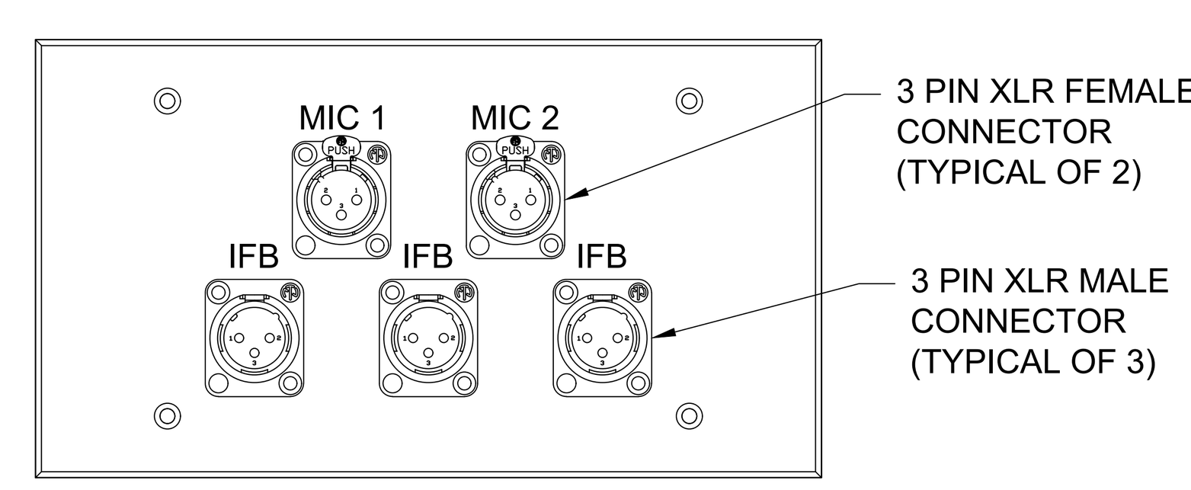
7 FB1.1 & 7 FB2.1 THRU 7 FB2.2
FSR FL-500P-4 FLOOR BOX
FLOOR BOX INSTALLED RECESSED FLUSH AT FINISH FLOOR
BACK BOX PROVIDED AND INSTALLED BY EC
FACE PLATES PROVIDED AND INSTALLED BY PSC
PSC TO PROVIDE GANG PLATES TO COVER ALL OPENINGS



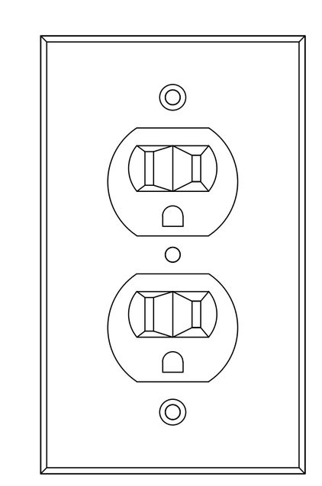
7 FB2.1A THRU 7 FB2.2B
LIGHTING FLOOR BOX CONNECTION
MOUNTED INSIDE FLOOR BOX
FLOOR BOX PROVIDED AND INSTALLED BY E.C.
FACEPLATE PROVIDED AND INSTALLED BY P.S.C.



1 FB2.1B THRU 1 FB2.2B
POWER CONNECTION PLATE
1 GANG PLATE MOUNTED IN FLOORBOX FB1.1
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



7 FB1.1A
MICROPHONE AND IFB PLATE UNDER ANCHOR DESK
MOUNTED INSIDE FLOOR BOX
FLOOR BOX PROVIDED AND INSTALLED BY E.C.
FACEPLATE PROVIDED AND INSTALLED BY P.S.C.



1 FB1.1B
POWER CONNECTION PLATE
1 GANG PLATE MOUNTED IN FLOORBOX FB1.1
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC

A1 AV401 AV FLOOR BOX DETAIL
N.T.S.

mcmillan
pazdan
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ARCHITECTURE

CONSULTANT LOGO

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SEALS

SPARTANBURG SCHOOL DISTRICT FIVE
JAMES F. BYRNES HIGH SCHOOL
PHASE 2 ACADEMIC WING ADDITION
150 E. MAIN STREET
DUNCAN, SC 29334

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
B	02/28/22	DD PRICING	MLC
C	06/01/22	GMP SET	MLC

NOT FOR CONSTRUCTION

GMP SET 06/01/22

PRINCIPAL IN CHARGE: Approver MLC
PROJECT ARCHITECT: Checker RPC
DRAWN BY: Author JSB

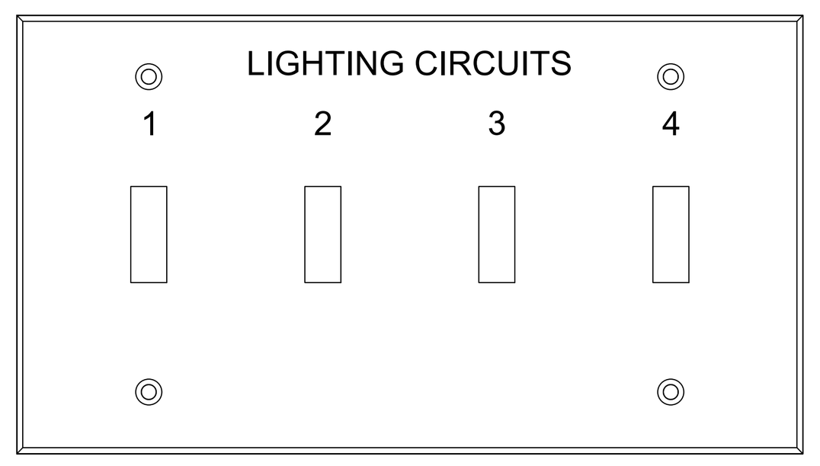
SHEET TITLE:
PHASE 2 - 1200 LEVEL
MEDIA LAB AV
DETAILS 1

SHEET NO. PROJ. NO.
020420.00

AV401

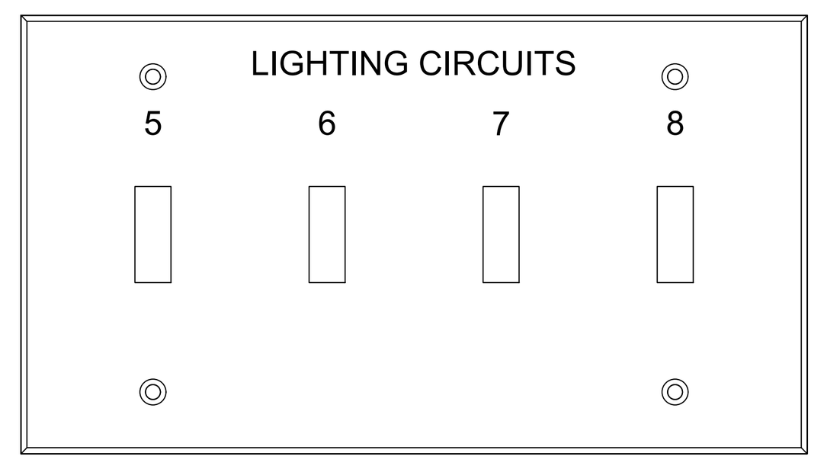
AV LIGHTING WALL PLATE DETAILS

A1 / AV402 — N.T.S.



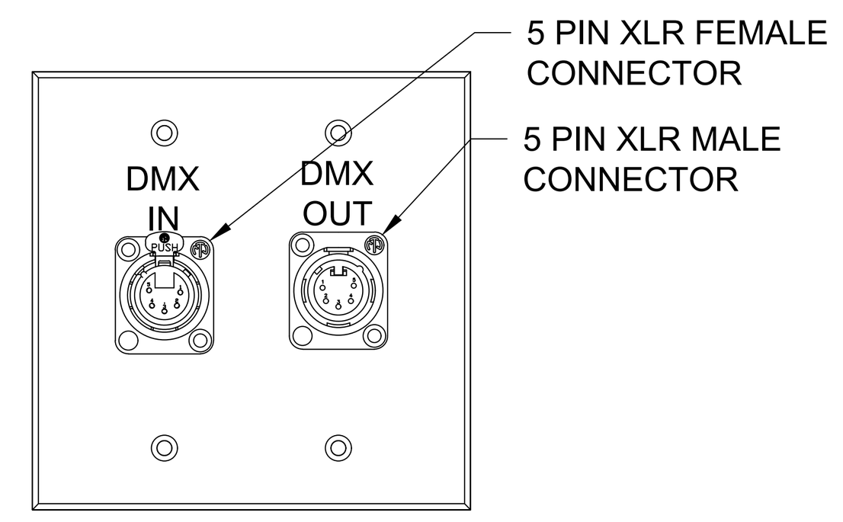
4 LP1.1

LIGHTING CIRCUIT SWITCH PLATE
REQUIRES 4 GANG BACKBOX MOUNTED RECESS FLUSH 48" AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



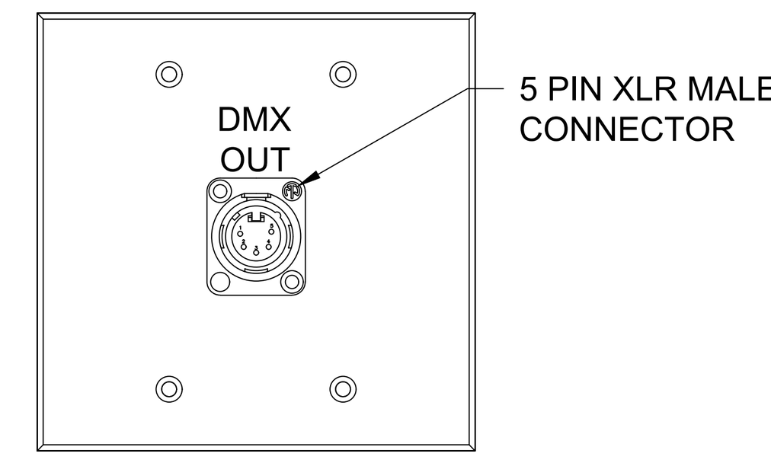
4 LP1.2

LIGHTING CIRCUIT SWITCH PLATE
REQUIRES 4 GANG BACKBOX MOUNTED RECESS FLUSH 48" AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



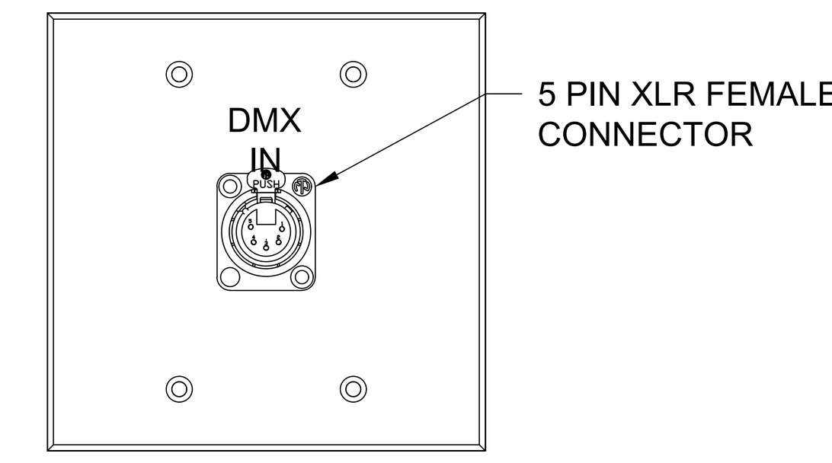
2 DMX1.1

DMX LIGHTING I/O PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 18"
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



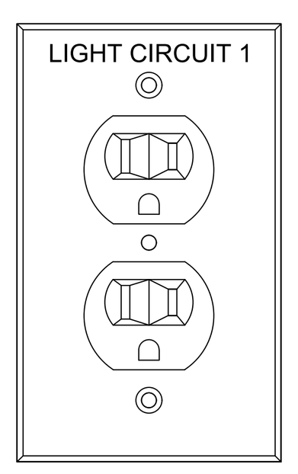
2 DMX 2.1 THRU 2 DMX2.6

DMX LIGHTING I/O PLATE
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 11'6"
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



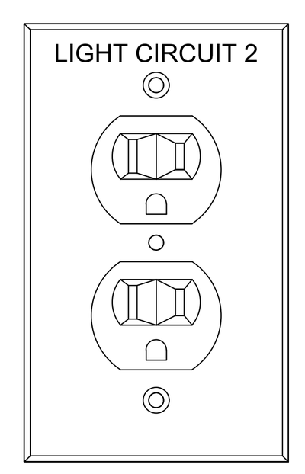
2 DMX 3.1

DMX LIGHTING I/O PLATE - MEDIA CONTROL
REQUIRES 2 GANG BACKBOX MOUNTED RECESS FLUSH 18" AFF
BACK BOX PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED AND INSTALLED BY PSC



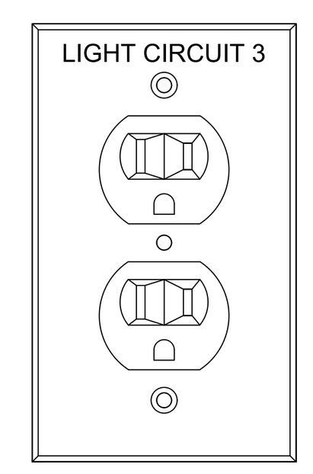
1 LC1.1 THRU 1 LC1.2

LIGHTING FIXTURE CONNECTION PLATE
1 GANG PLATE MOUNTED IN FLOORBOX FB2.1
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



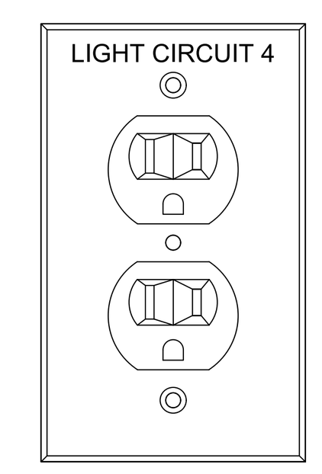
1 LC1.3

LIGHTING FIXTURE CONNECTION PLATE
1 GANG PLATE MOUNTED IN FLOORBOX FB2.2
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



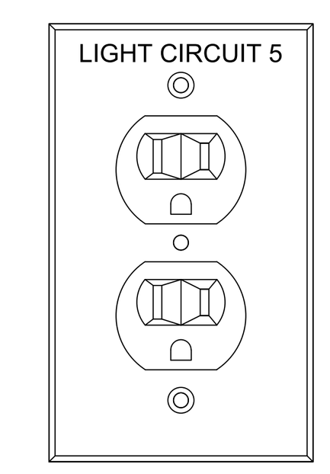
1 LC2.1

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



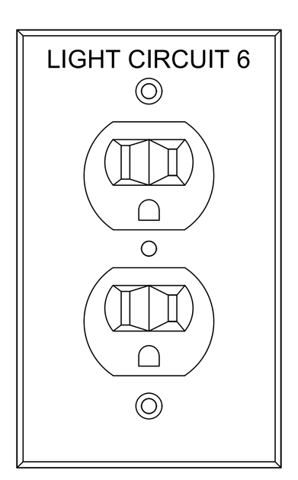
1 LC2.2

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



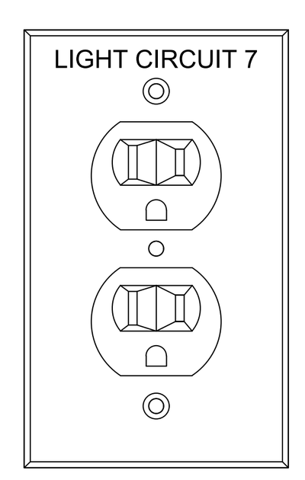
1 LC2.3

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



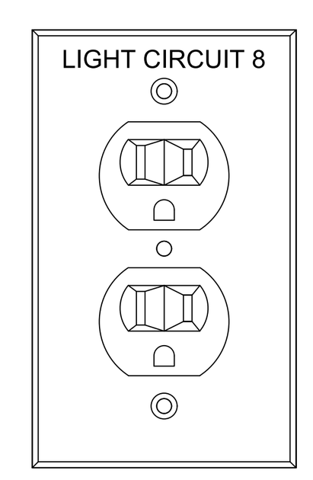
1 LC2.4

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



1 LC2.5

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC



1 LC2.6

LIGHTING FIXTURE CONNECTION PLATE
REQUIRES 1 GANG BACKBOX MOUNTED RECESS FLUSH 11' 6" AFF
BACK BOX AND RECEPTACLE PROVIDED AND INSTALLED BY EC
FACEPLATE PROVIDED BY PSC AND INSTALLED BY EC

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PHASE 2 ACADEMIC WING ADDITION

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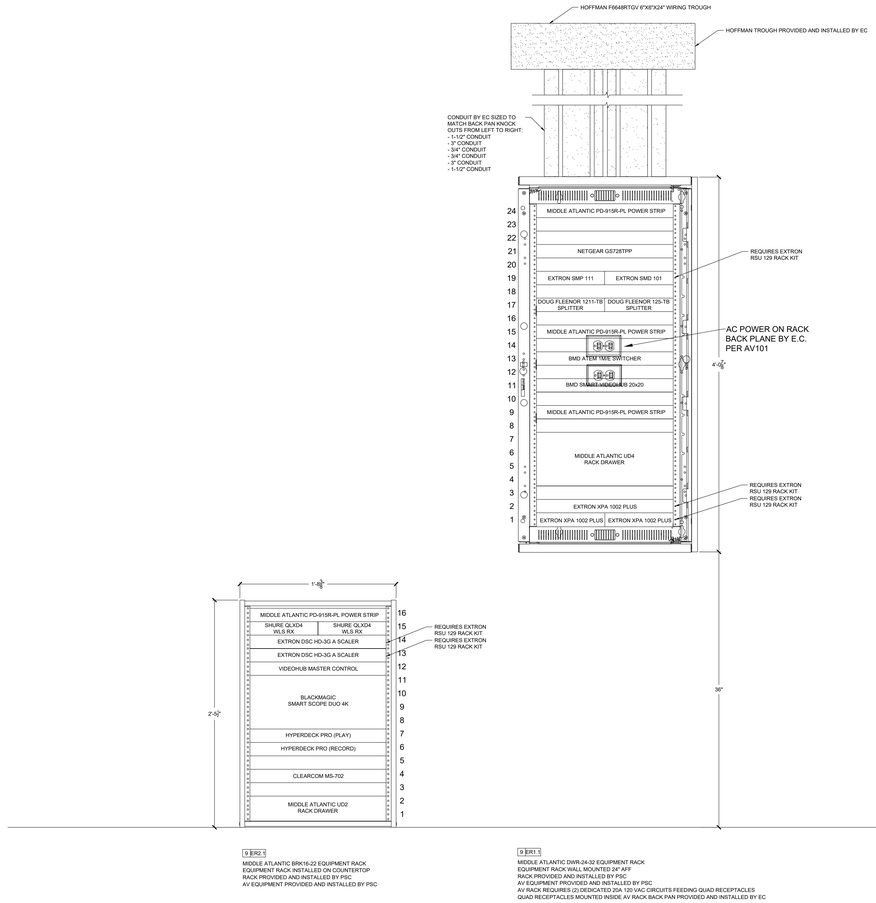
PRINCIPAL IN CHARGE: Approver ML
PROJECT ARCHITECT: Checker RP
DRAWN BY: Author JSE

SHEET TITLE:
PHASE 2 - 1200 LEVEL
MEDIA LAB AV
DETAILS 2

SHEET NO. PROJ. NO. 020420.00

AV402



9 |ERC 1
MIDDLE ATLANTIC BRK16-22 EQUIPMENT RACK
EQUIPMENT RACK INSTALLED ON COUNTERTOP
RACK PROVIDED AND INSTALLED BY PSC
AV EQUIPMENT PROVIDED AND INSTALLED BY PSC

9 |ERI 1
MIDDLE ATLANTIC DWR-24-32 EQUIPMENT RACK
EQUIPMENT RACK WALL MOUNTED 24" AFF
RACK PROVIDED AND INSTALLED BY PSC
AV EQUIPMENT PROVIDED AND INSTALLED BY PSC
AV RACK REQUIRES (2) DEDICATED 20A 120 VAC CIRCUITS FEEDING QUAD RECEPTACLES
QUAD RECEPTACLES MOUNTED INSIDE AV RACK BACK PAN PROVIDED AND INSTALLED BY EC

A1 / AV403 **RACK DETAILS**
1-1/2"=1'

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PRINCIPAL IN CHARGE: Approver MLI
PROJECT ARCHITECT: Checker RPI
DRAWN BY: Author JSE

SHEET TITLE:
PHASE 2 - 1200 LEVEL MEDIA LAB AV DETAILS

SHEET NO. PROJ. NO. 020420.00

AV403

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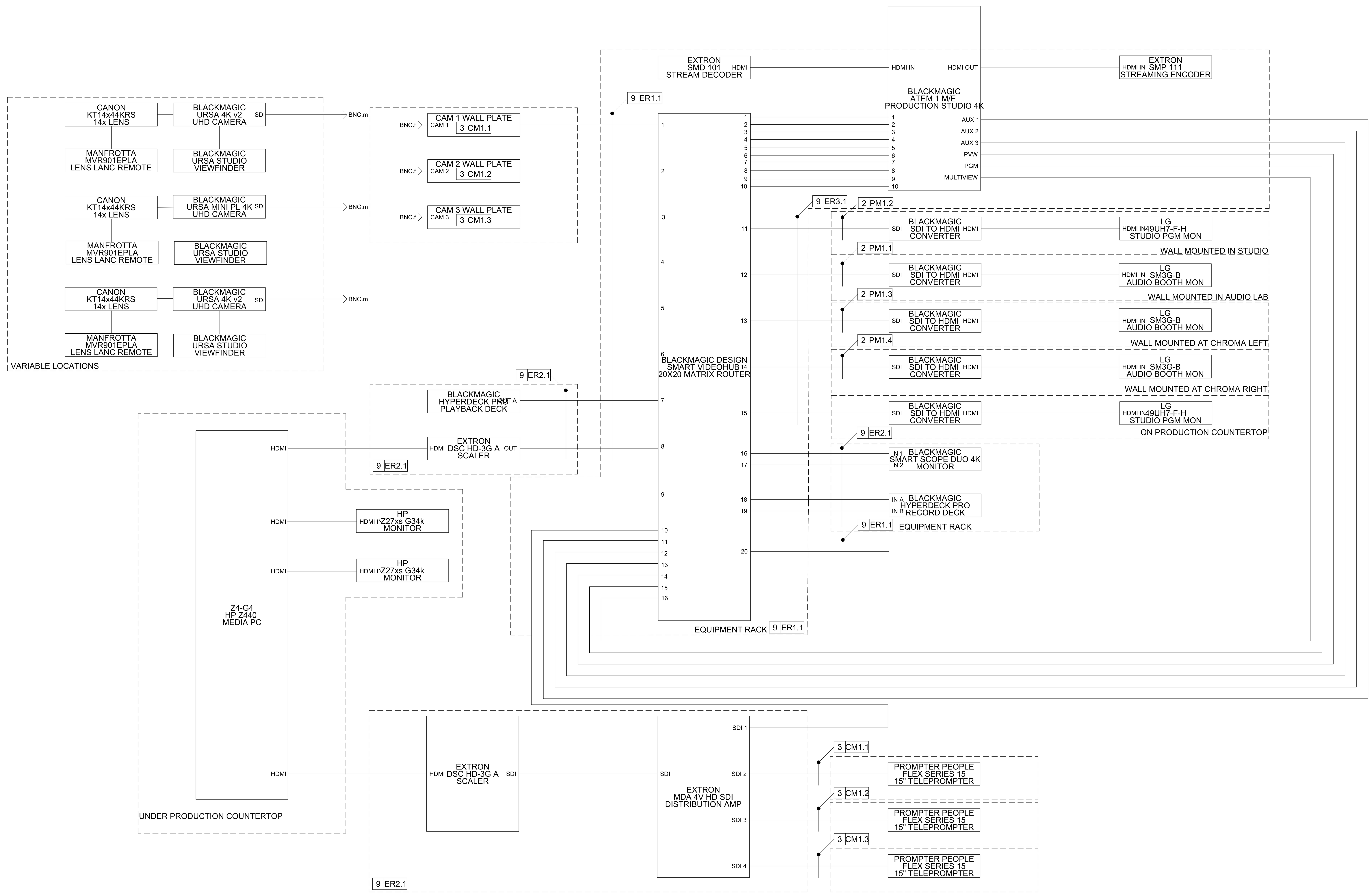

A1 AV501 **VIDEO SIGNAL FLOW**
N.T.S.

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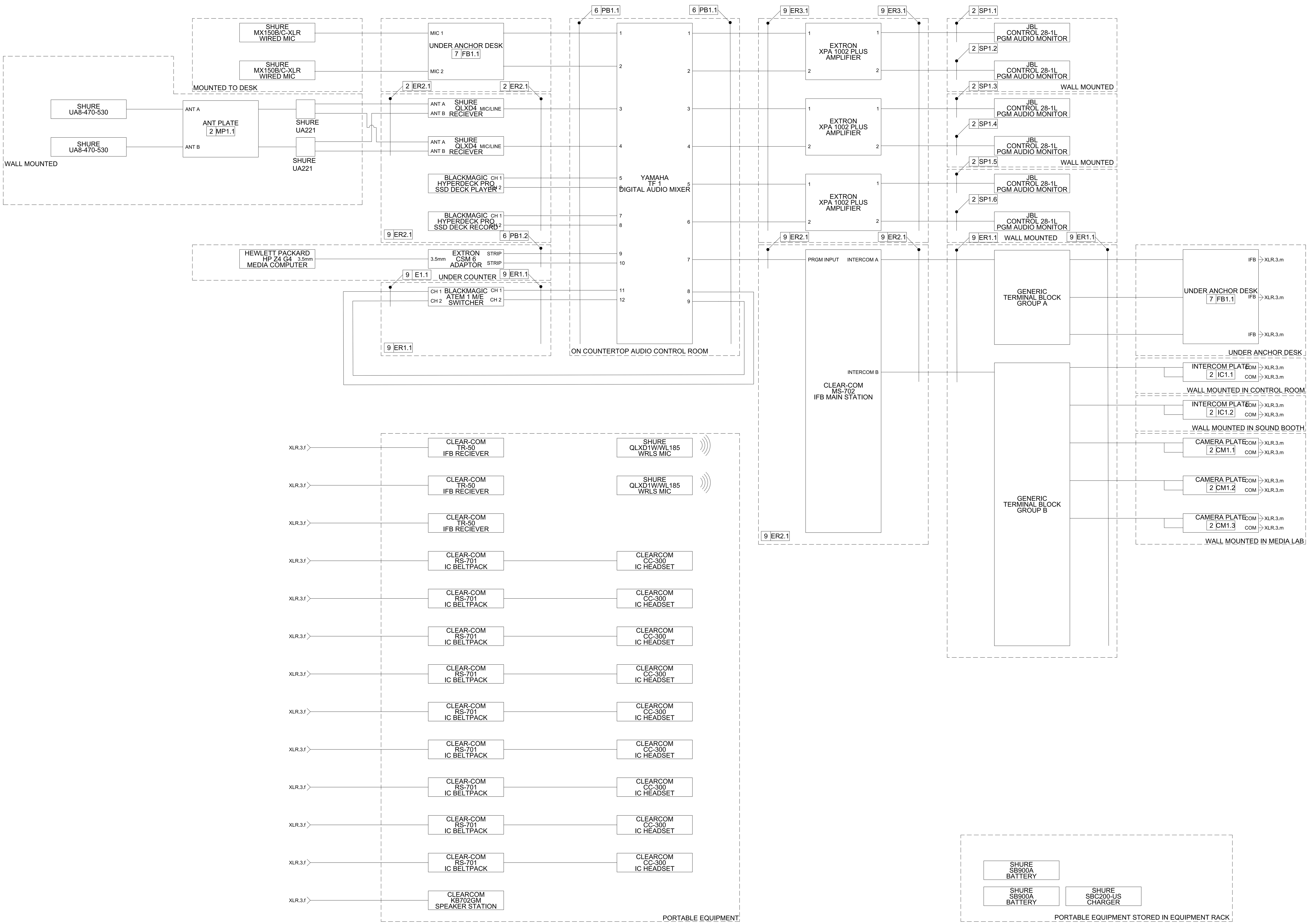
SHEET TITLE:

PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOW

SHEET NO. PROJ. NO. 020420.00

AV501



A1 AV502 **AUDIO SIGNAL FLOW**
N.T.S.

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PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
PHASE 2 - 1200 LEVEL
MEDIA LAB AV
FLOW

SHEET NO. PROJ. NO. 020420.00

AV502

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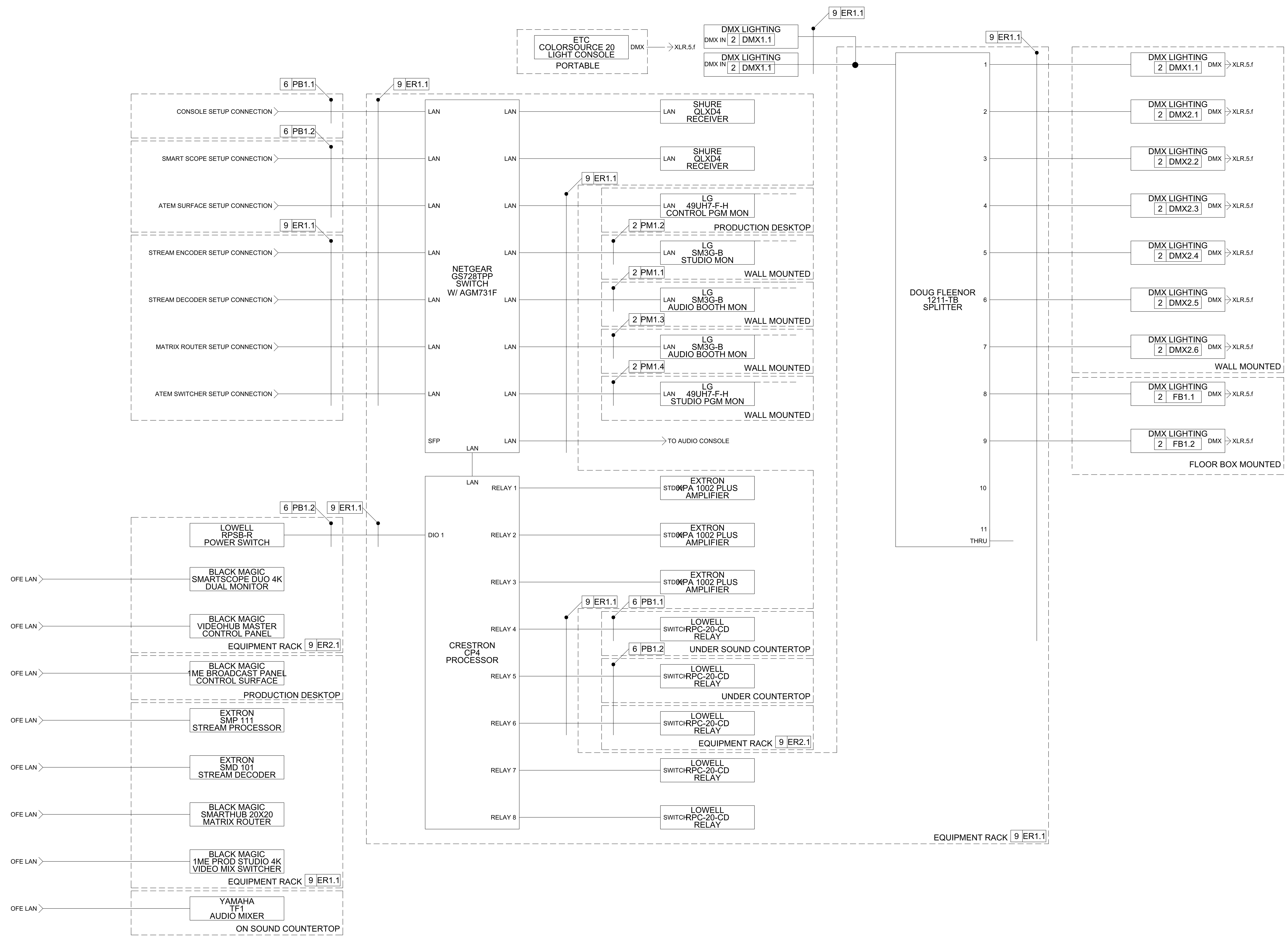

A1 AV503 **CONTROL SIGNAL FLOW**
N.T.S.

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GMP SET 06/01/22

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PROJECT ARCHITECT: Checker
DRAWN BY: Author

SHEET TITLE:
PHASE 2 - 1200 LEVEL MEDIA LAB AV FLOW

SHEET NO. AV503
PROJ. NO. 020420.00