JUD C HICKEY CENTER

PRYCO STRUCTURAL

AUGUSTA, GA 30901

371 W MAIN STREET

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CIVIL: (UNDER SEPARATE CONTRACT)

CONTACT: SCOTT JOHNSON, P.E.



Member of the

American Institute o

PROJECT TITLE:

JUD C

HICKEY

CENTER

11/17/21 | EA |65% SET

__2/16/22 | EA | ISSUE FOR PERMI

SITE MAP

OWNER:

JUD C. HICKEY CENTER FOR ALZHEIMER'S CARE 1901 CENTRAL AVENUE AUGUSTA, GA 30904 PH: (706) 738-5039 CONTACT: JENNIFER PENNINGTON

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ELECTRICAL DESIGN CONSULTANTS, INC. 1201 BROAD STREET, SUITE 1A AUGUSTA, GA 30901 PH: (706) 724-3551 CONTACT: ASHLEY PAULK, P.E. EMAIL: APAULK@EDCAUGUSTA.COM

PROJECT DIRECTORY

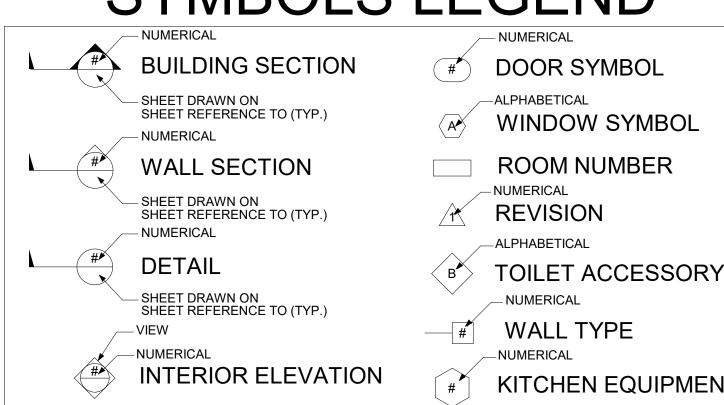
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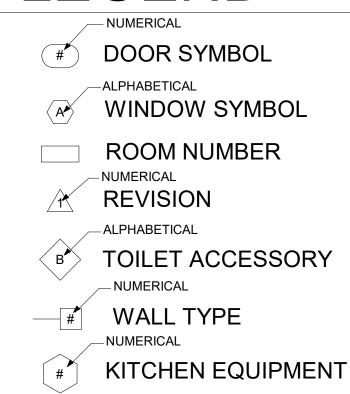
DICKINSON ARCHITECTS 771 BROAD STREET, SUITE 200 AUGUSTA, GEORGIA 30901 PH: (706) 722-7488 CONTACT: ERIN ARMSTRONG, AIA EMAIL: EARMSTRONG@DICKINSONARCHITECTS.COM

MECH./PLUMBING ENGINEER:

PFA ENGINEERING, INC. 1201 BROAD STREET, SUITE 3A AUGUSTA, GA 30901 PH: (706) 722-3959 CONTACT: MARTIN FORD, P.E. EMAIL: JMFORD@PFAENGINEERS.COM

SYMBOLS LEGEND STRUCTURAL ENGINEER:





ABBREVIATIONS

7.V.O	ALTERNATE		LICELOW WEITH
ALT.	ALTERNATE		HORIZONTAL
	ALUMINUM		HORSE POWER
	AT	HR.	HOUR
A.F.F.	ABOVE FINISH FLOOR	HVAC.	HEATING VENTILATING, AIR CONDITIONING
	ARCH LENGTH	HWS	HOT WATER SUPPLY (CWS - COLD)
	ACOUSTICAL CEILING PANEL	HWR	HOT WATER RETURN (CWR - COLD)
A.V.	AUDIO VISUAL	I.D.	INSIDE DIAMETER
	AVERAGE WIRE GAUGE	INSUL.	INSULATION
3D.	BOARD	INT.	INTERIOR
BOTT. B/	BOTTOM	J	JUNCTION
BM.	BEAM	JT.	JOINT
	BEARING	J/B	JOIST BEARING
	BOTH SIDES	L.P.	LATEX PAINT
BTUH	BRITISH THERMAL UNIT/HOUR	LAM.	LAMINATED
BULKHD	BULKHEAD	MAT.	MATERIAL
	BOTH WAYS	MAX.	MAXIMUM
СВ	CERAMIC BASE	MECH.	MECHANICAL
CC	COLORED CONCRETE		MANUFACTURER
	CEILING	MIN.	MINIMUM / MINUTE
CFM	CUBIC FEET PER MINUTE		MISCELLANEOUS
CG	CORNER GUARD		MASONRY OPENING
C.I.	CAST IRON		MOISTURE RESISTANT
Ç.J.	CONTROL JOINT	MTD.	MOUNTED
ይ	CENTER LINE	MTL.	METAL
<u>C</u> L	CLEARANCE	MUL.	MULLION
	CEILING		NATIONAL ELECTRICAL CODE
	CONCRETE MASONRY UNIT	N.E.D.	NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION
		N.F.P.A.	
CO	CLEAN OUT	N.I.C.	NOT IN CONTRACT
	COLUMN	O.A.	OUTSIDE AIR
	CONCRETE	O.C.	ON CENTER
	CONDUCTIVE	O.D.	OUTSIDE DIAMETER
	CONSTRUCTION	O.H.	OVERHEAD
	CONTINUOUS	PL.	PLATE
	CARPET		PLASTIC LAMINATE
CPI.	CARPET		PLASTIC LAMINATE
	CARPET BASE	PLYW'D	PLYWOOD
	CERAMIC TILE		PAINTED SMOOTH FINISH
CWC	CERAMIC WALL COVERING	P.S.I.	POUNDS/SQUARE INCH
	DOUBLE		PRESSURE TREATED
	DETECTOR		PAINTED
		Q.T.	QUARRY TILE
DET.	DETAIL		
DIA. ~	DIAMETER	REINF.	REINFORCING
DIAG.	DIAGONAL		RADIUS
DN.	DOWN	RB	RUBBER BASE
DR.	DOOR	R.D.	ROOF DRAIN
	DOWNSPOUT	RDL	ROOF DRAIN LINE
EA.	EACH		REQUIRED
E.C.	ELECTRICAL CONDUIT		ROOF TOP UNIT
<u> </u>	ELECTRICAL CONDUIT		RAIN WATER LEADER
E.C.F.	ELECTRICAL CONDUIT FLEX.		
EF	EXHAUST FAN	S.B.C.	STANDARD BUILDING CODE
E.I.F.S.	EXTERIOR INSULATING FINISH SYSTEM	S.C.	SOLID CORE
E.J.	EXPANSION JOINT		SHEET
ELECT.	ELECTRICAL	SIM.	SIMILAR
E.P.	EPOXY PAINT	S.S.	STAINLESS STEEL
EQUIP.	EQUIPMENT	SQ.	SQUARE
			STEEL GRATE
E.W.	EACH WAY		
EXIST.	EXISTING	STD.	STANDARD
EWC	ELECTRIC WATER COOLER	STG.	STORAGE
	EXTERIOR	STL.	STEEL
EXP	EXPOSED	STRUCT.	STRUCTURAL
FACP	FIRE ALARM CONTROL PANEL	TELE.	TELEPHONE
FBOIBO	FURNISHED BY OWNER, INSTALLED BY OWNER	TEMP.	TEMPERED
		T/	
	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR		TOP
FCB	FIBER CEMENT BOARD	T/B	TOP OF BEAM
FD	FLOOR DRAIN	T/F	TOP OF FOOTING
FE.	FIRE EXTINGUISHER	T.H.	THRESHOLD
FEC.	FIRE EXTINGUISHER CABINET	T/J	TOP OF JOIST
FIN.	FINISH	T.O.	TOP OF
F.F.L.	FINISH FLOOR LEVEL	T.O.W.	TOP OF WALL
			TUDE OTEEL
	FLOOR	TS	TUBE STEEL
F.R.	FIRE-RATED	TXS	TEXTURED SURFACE
	FIBERGLASS REINF. PANELS	TYP.	TYPICAL
FT.	FOOT	U.L.	UNDERWRITERS LABORATORY
	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
	FIELD VERIFY	V CONT T	VINYL CONDUCTIVE TILE
G . v .	GROUND	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VM	VENDING MACHINE
	GENERAL CONTRACTOR	W/	WITH
GL	GLASS	W/IN	WITHIN
GPM	GALLONS PER MINUTE	W/O	WITHOUT
OVD DD	GYPSUM BOARD	WB	WOOD BASE
(TYP BI)	HOSE BIBB		
	ITUSE DIDD	WD.	WOOD
НВ			TWO YOU THOUGH
HB HC	HANDICAP	WF	WOOD FLOOR
HB HC HCEWC	HANDICAP HANDICAP ELECTRIC WATER COOLER	W.P.	WORK POINT
HB HC HCEWC	HANDICAP		

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LS102	UL DETAILS & FIRESTOPPING DETAILS		Χ	X
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D101	DI LIMPINO DI ANI MATERIANDICAS			+

PLUMBING PLAN - WATER AND GAS

PLUMBING DETAILS

PLUMBING SCHEDULE AND SPECIFICATIONS

 $|X| \times |X|$

P101

P200

P201



		35% SET - 04/16/21	65% SET - 11/17/21	ISSUE FOR PERMIT - 02/16/2
FIRE PROT	ECTION			
FP100	FIRE PROTECTION PLAN	Х	Х	Χ
FP101	FIRE PROTECTION PLAN - ATTIC	X	Х	X
FP200	FIRE PROTECTION SPECIFICATIONS			X
M201	HVAC PIPING PLAN	X	Χ	X
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E501	FIRE ALARM SYSTEM PLAN	X	X	X
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E700	DETAILS	X	X	X

ARCHITECTURAL GENERAL NOTES

DO NOT SCALE DRAWINGS- DIMENSIONS GOVERN. 2. LARGER SCALE PLANS & DETAILS WILL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES,

REGULATIONS, AND ORDINANCES HAVING JURISDICTION. 5. MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS NOT OTHERWISE INDICATED IN THESE CONSTRUCTION DOCUMENTS SHALL BE INTERPRETED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE WITHIN THESE DOCUMENTS.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS, STARTING FABRICATION OR BEGINNING CONSTRUCTION.

7. THE CONTRACTOR, UPON AWARDING CONTRACTS TO SUBCONTRACTORS, SHALL SUBMIT TO THE ARCHITECT AND THE OWNER A LIST OF ALL ITEMS AND THEIR DELIVERY SCHEDULES. THE CONTRACTOR SHALL IDENTIFY ALL LONG-LEAD TIME ITEMS ON THE PROJECT (I.E., MATERIALS, FABRICS, HARDWARE, ETC.). THE CONTRACTOR, PRIOR TO ORDERING AN ITEM, SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND THE OWNER OF ANY ITEM

WHICH MAY CAUSE THE PROJECT TO BE DELAYED.

DELAY TO MOVE-IN DATE CAUSED BY SCHEDULING WITHIN HIS SCOPE, I.E., DELIVERY DATES OF MATERIALS, ETC.

FLOOR TOLERANCE: IN LAYING OUT AND DETAILING GIVEN TO VARIATIONS IN THE FLOOR LEVELNESS RESULTING FROM CONSTRUCTION QUALITY AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATION SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES. ALIGNMENT OF THE DOOR HEADS AND OTHER HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING APPROVED LEVELING COMPOUND.

10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY REINFORCING TO ACCOMMODATE INTERIOR FINISHES, FIXTURES AND EQUIPMENT AS DESCRIBED IN THESE DOCUMENTS.

11. THE EXTENT OF WORK SHALL BE LIMITED TO THAT INDICATED IN THE CONTRACT DOCUMENTS. NO ADDITIONAL WORK SHALL BE DONE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT OR OWNER. ANY ADDITIONAL WORK PERFORMED WITHOUT WRITTEN APPROVAL SHALL BE AT THE CONTRACTOR'S EXPENSE.

12. ALL FASTENERS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW, UNLESS NOTED OTHERWISE. 13. DIMENSIONS NOTED AS "CLEAR" OR "CRITICAL" SHALL BE MEASURED FROM FINISHED FACE TO FINISHED FACE.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AND INSTRUCTIONS PUBLISHED BY U.S. GYPSUM COMPANY'S "GYPSUM CONSTRUCTION

15. ALL FINISH CARPENTRY AND MILLWORK SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL WOOD-WORKS INSTITUTE (AWI) STANDARDS FOR SELECTION OF MATERIALS HARDWARE, FABRICATION, WORKMANSHIP. AND FINISHING.

HANDBOOK", LATEST EDITION.

16. EQUIPMENT AND APPLIANCES: THE CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND/OR APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND COORDINATE INSTALLATION OF OWNER FURNISHED EQUIPMENT AND/OR APPLIANCES WHERE DESIGNATED. CONTRACTOR SHALL VERIFY THE PLUMBING AND ELECTRICAL

REQUIREMENTS OF ALL SUCH APPLIANCES. 17. PATCH AND SEAL ALL PENETRATIONS IN THE FLOOR AND PARTITIONS TO COMPLY WITH APPLICABLE BUILDING AND/OR FIRE, LIFE SAFETY CODES.

19. ALL FLOOR FINISH CHANGES SHALL OCCUR UNDER

18. "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE

CENTER LINE OF DOOR IN CLOSED POSITION.

20. WHERE ELECTRICAL, MECHANICAL, AND/OR OTHER WALL MOUNTED DEVICES OCCUR AT THE SAME LOCATION BUT AT DIFFERENT HEIGHTS, THEY SHALL BE CENTERED ABOVE EACH OTHER.

21. THE CONTRACTOR IS RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL ITEMS INDICATED ON THE ARCHITECTURAL MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. ALL ITEMS INDICATED ON ANY DRAWING ARE TO BE INCLUDED AS A COMPLETE SYSTEM.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING WORK WITH ARCHITECTURAL DRAWINGS. HE SHALL BE RESPONSIBLE TO IDENTIFY ANY DISCREPANCIES ON THE DOCUMENTS AND SHALL INFORM THE ARCHITECT.

DRAWING TITLE: TITLE SHEET

DA PROJECT NUMBER & NAME:

1. OCCUPANCY CLASSIFICATION

IBC 2018

SECTIONS 303.3, 303.4, 304, 308.5 ASSEMBLY GROUP A (A-2) ASSEMBLY GROUP A (A-3) BUSINESS GROUP B INSTITUTIONAL GROUP (I-4) 2018 NFPA LIFE SAFETY
CHAPTER 12/13 - NEW & EXISTING ASSEMBLY OCCUPANCIES
CHAPTER 16/17 - NEW & EXISTING DAY-CARE OCCUPANCIES
CHAPTER 38/39 - NEW & EXISTING BUSINESS OCCUPANCIES

SECTION 508 MIXED USE AND OCCUPANCY I-4, A-2, A-3, & B REGULATED PER 508.3 NONSEPARATED OCCUPANCIES SECTION 6.1 MULTIPLE OCCUPANCIES

DAY-CARE, ASSEMBLY, & BUSINESS REGULATED PER
6.1.14.3 MIXED OCCUPANCIES

2. CONSTRUCTION TYPE

IBC 2018 SECTION 601 TYPE VB

3. FIRE SPRINKLERS

IBC 2018

2018 NFPA LIFE SAFETY

SECTION 506.3

SECTION 16.3.5

AUTOMATIC FIRE SPRINKLER

EXTINGUISHING IS REQUIRED.

4. HEIGHT / AREA LIMITATIONS

PER IBC 2018 TABLES 504.3, 504.4, 506.2

PER IBC 2018 506.3 FRONTAGE INCREASE: EQUATION 5-5: $I_f = [F/P - 0.25]W/30$

 $I_f = .62$

PER IBC 2018 506.2 FRONTAGE INCREASE: EQUATION 5-1:

 $A_a = A_t + (NS \times I_f)$

ASSEMBLY (A-2 & A-3) ALLOWABLE AREA:

 $A_a = 24,000 \text{ SF} + (6,000 \text{ SF x .62})$ $A_a = 27,720 \text{ SF}$

BUILDING AREA BREAKDOWN:

INTERIOR	24,312 SF
COVERED EXTERIOR	2,991 SF
TOTAL:	27,303 SF

AREA:	MAX ALLOWABLE AREA (TABLE 506.2)	FRONTAGE AREA INCREASE ALLOWABLE	ACTUAL BUILDING AREA
BUILDING AREA	24,000 SF	27,720 SF	27,303 SF

HEIGHT:	MAX ALLOWABLE HEIGHT (TABLES 504.3, 504.4)	ACTUAL BUILDING HEIGHT
HEIGHT IN FEET	60'	30'
HEIGHT IN STORIES	2	1

5. OCCUPANCY LOAD

NOTES:

1. CALCULATIONS ARE PER NFPA TBL. 7.3.1.2

2. TOTAL OCCUPANCY INCLUDES OCCUPANTS IN THE INTERNAL COURTYARD, BUT THAT AREA IS NOT INCLUDED IN THE BUILDING AREA., PER IBC. EGRESS THROUGH AND OUT OF THE BUILDING FOR THESE OCCUPANTS IS INCLUDED IN THE BUILDING DESIGN.

	AREA / FACTOR =	OCCUPANTS	TOTAL OCCUPANCY
TOTAL	24,312 SF	VARIES, SEE LIFE SAFETY PLAN	928

6. EGRESS REQUIREMENTS

PER NFPA 101 TABLE 7.3.3.1

	LEVEL COMPONENT .2" PER OCCUPANT		STAIR COMPONENT .3 PER OCCUPANT		
	MIN.	ACTUAL	MIN.	ACTUAL	
1st FLOOR	36"	72"	36"	N/A	

NUMBER OF EXITS				
	MIN. PER NFPA 101 ACTU			
1st FLOOR	3	3		

7. TRAVEL DISTANCE

NOTES:

1. PER NFPA 101 TABLE A7.6.

TRAVEL DISTANCE LIMIT		DEAD-END LI	MIT	COMMON PATH LIMI	
NFPA 101 TABLE A7.6	ACTUAL	NFPA 101 TABLE A7.6	ACTUAL	NFPA 101 TABLE A7.6	ACTUAL
200 FT.	< 128 FT	20 FT.	< 13 FT	20/75 FT.	< 28 FT

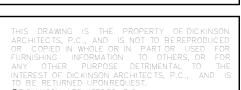
8. APPLICABLE CODES - STATE OF GEORGIA

LIFE SAFETY CODE	NFPA 101, 2018 EDITION
INTERNATIONAL BUILDING CODE	2018 EDITION, WITH GEORGIA AMENDMENTS
AMERICANS WITH DISABILITIES ACT	2010 WITH REVISED STANDARDS
INTERNATIONAL MECHANICAL CODE	2018 EDITION, WITH GEORGIA AMENDMENTS
INTERNATIONAL PLUMBING CODE	2018 EDITION, WITH GEORGIA AMENDMENTS
NATIONAL ELECTRIC CODE	2020 EDITION, WITH GEORGIA AMENDMENTS
INTERNATIONAL FIRE CODE	2018 EDITION, WITH GEORGIA AMENDMENTS
INTERNATIONAL FUEL GAS CODE	2018 EDITION, WITH GEORGIA AMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE	2015 EDITION, WITH GEORGIA AMENDMENTS
NFPA 13	2013 EDITION

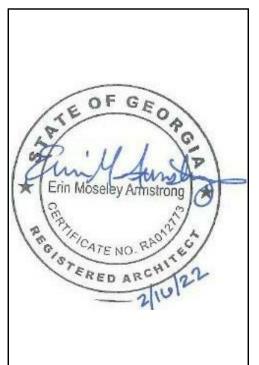
TABLE 102.10: CODES REFERENCE GUIDE	PRIMARY	SUPPLEMENT
OCCUPANCY CLASSIFICATION	LSC	IBC
BUILDING CONSTRUCTION TYPES INCLUDING ALLOWABLE HEIGHT, ALLOWABLE BUILDING AREAS, AND THE REQUIREMENTS FOR THE SPRINKLER PROTECTION RELATED TO MINIMUM BUILDING CONSTRUCTION TYPES	IBC	LSC
MEANS OF EGRESS	LSC	NONE
STANDPIPES	IBC	IFC
INTERIOR FINISH	LSC	NONE
HVAC SYSTEMS	IMC	NONE
VERTICAL OPENINGS	LSC	NONE
SPRINKLER SYSTEMS MINIMUM CONSTRUCTION STANDARDS	LSC	NONE
FIRE ALARM SYSTEMS	LSC	NONE
SMOKE ALARM AND SMOKE DETECTION SYSTEMS	STATE STATUTE & LSC	NONE
PORTABLE FIRE EXTINGUISHERS	IFC	NONE
COOKING EQUIPMENT	LSC & NFPA	NONE
FUEL FIRED APPLIANCES	IFGC	NFPA 54
LIQUID PETROLEUM GAS	NFPA 58	NFPA 54 & IFGC
COMPRESSED NATURAL GAS	NFPA 52	NONE







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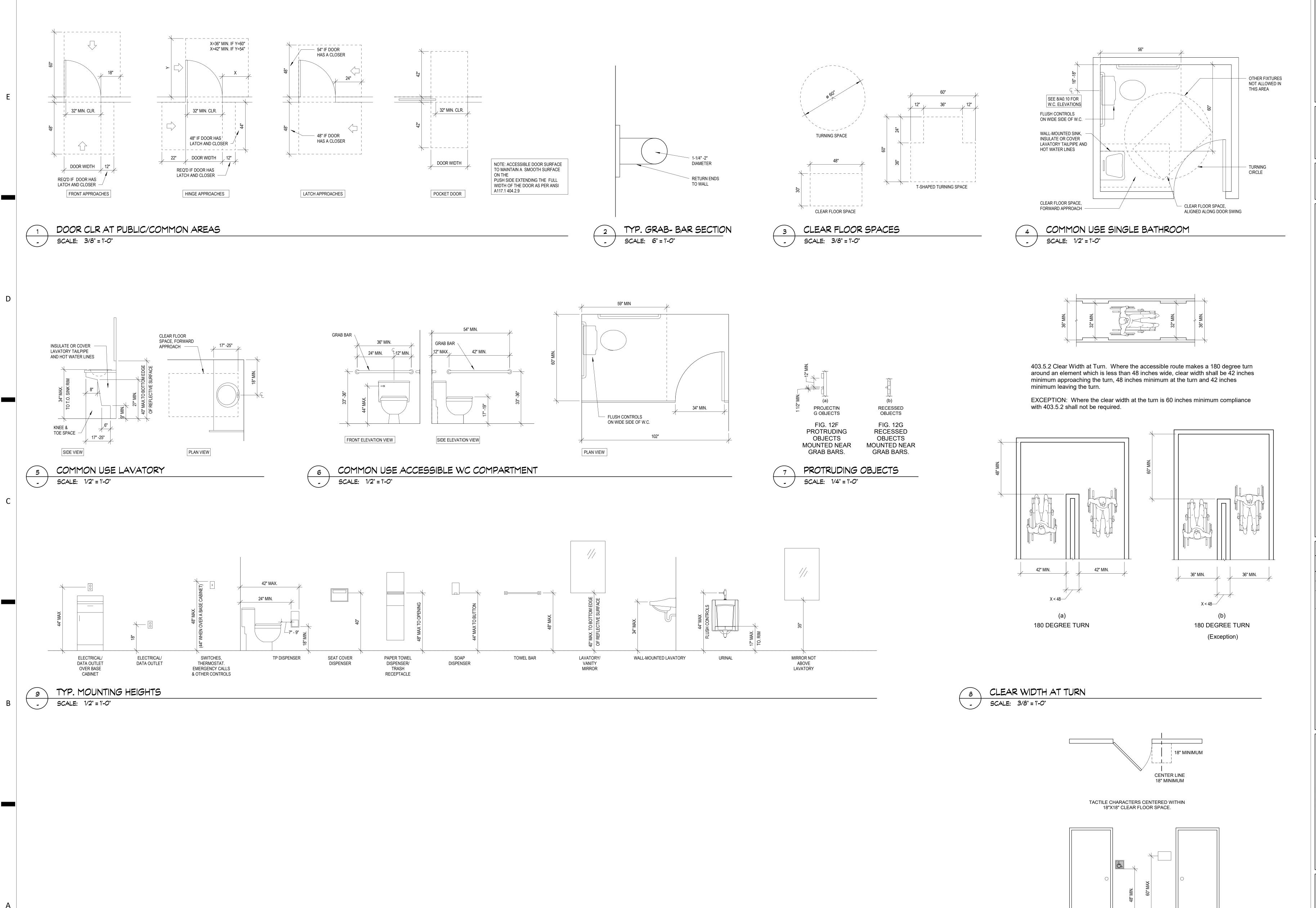
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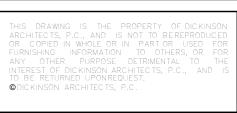
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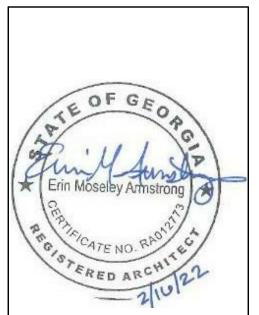






PROJECT TITLE: JUD C HICKEY CENTER

REVISIONS DATE BY REVISION 4/16/21 EA 35% SET 11/17/21 EA 65% SET 2/16/22 EA ISSUE FOR PERMIT

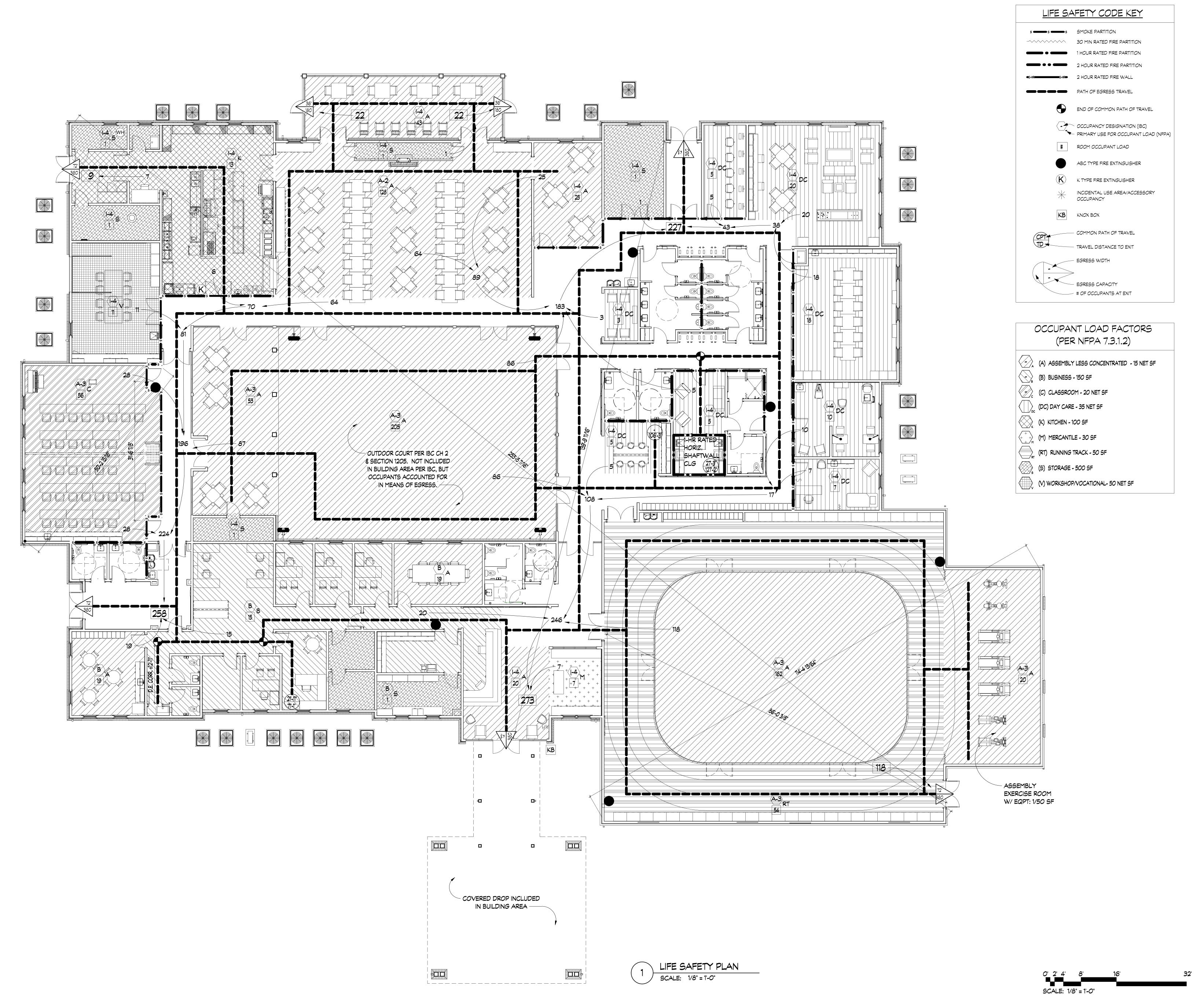


DA PROJECT NUMBER & NAME: DRAWING TITLE: **ACCESSIBILITY GUIDELINES**

MINIMUM HEIGHT: BASELINE OF LOWEST COPY MOUNTED NO LOWER THAN 48" ABOVE FLOOR

MAXIMUM HEIGHT: BASELINE OF HIGHEST COPY MOUNTED NO HIGHER THAN 60" ABOVE FLOOR

SCALE: 3/8" = 1'-0"



ARCHITECTS

Architecture Interior Design Planning

771 Broad Street Suite 200

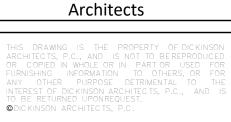
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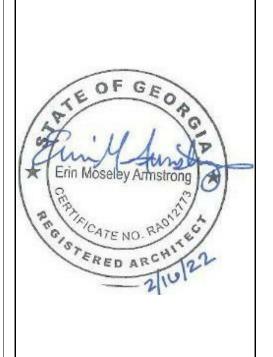
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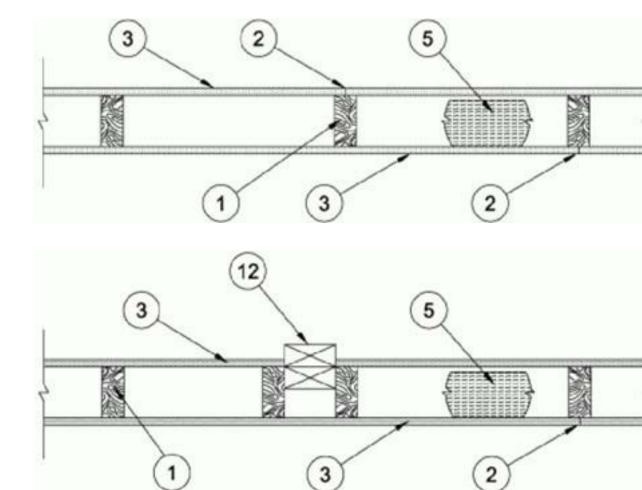
DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

LIFE SAFETY

PLAN

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped. 2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound. 3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied

either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11

(finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base -Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base -Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts,

THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) —

Category (BKNV) for names of manufacturers. 5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition

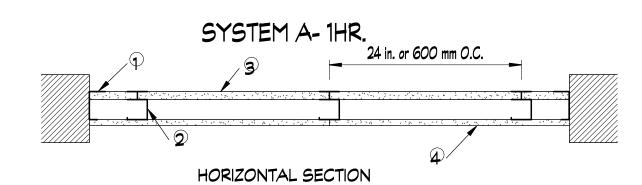
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL

*NOTE: SEE CURRENT UL DESIGN FOR FULL PRODUCT INFORMATION AND ALTERNATE ACCEPTABLE MATERIALS

Design No. U415 June 05, 2019

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners. 2. Steel Studs — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

3. **Gypsum Board*** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips. CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —

System A — 1 Hr Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX. SHX, ULIX, ULX, WRC, WRX, USGX. When ULIX is used insulation, Item 6, Batts and **Blankets*** is required and minimum stud depth is 4 in. 5. **Joint Tape and Compound** — (Not Shown)

Systems A, B, C, E, F, G, H, I Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* — Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance. System A With Type ULIX Gypsum Boards

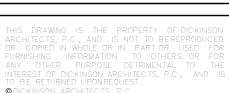
Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

*NOTE: SEE CURRENT UL DESIGN FOR FULL PRODUCT INFORMATION AND ALTERNATE ACCEPTABLE MATERIALS

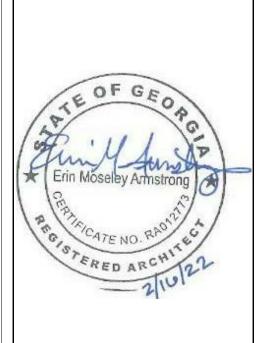






PROJECT TITLE: JUD C HICKEY **CENTER**

APRVD REVISION DATE BY 11/17/21 EA 65% SET 2/16/22 EA ISSUE FOR PERMIT



DA PROJECT NUMBER & NAME DRAWING TITLE: **UL DETAILS & FIRESTOPPING DETAILS**

DRAWING NO:

**DETAIL IS TYPICAL FOR FIRE RATING & SOUND RATING

INTERSECTION OF RATED WALLS

STEEL J-RUNNER

@ 24" O.C.

1" GYPSUM LINER PANEL -

(2) LAYERS 1/2" OR (1) LAYER

5/8" FIRECODE C CORE

GYPSUM BOARD

FIRE SEALANT

1-HR HORIZ. SHAFT WALL ASSEMBLY

NER-258

TAPE AND JOINT COMPOUND, TYP.

LOWER RATED WALL

HIGHER RATED WALL

HIGHER RATED WALL

ALIGN FACE OF LOWER &

HIGHER RATED WALLS

LOWER RATED WALLS

NOTE: THE HIGHER RATED WALL

CORNER BEAD,

GYP. BD., AS SPECIFIED.

HIGHER RATED WALL

MUST PASS THROUGH THE

LOWER RATED WALL

LESSER RATED WALL.

2 1/2" MTL C-H STUDS (25 GA)

SCALE: 11/2" = 1'-0"

CORNER BEAD

LOWER RATED WALL

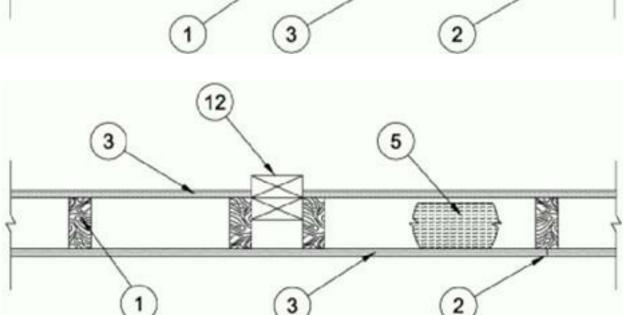
VARIES

TAPE AND JOINT

COMPOUND, TYP.

SCALE: 11/2" = 1'-0"

employing the UL or cUL Certification (such as Canada), respectively.



(finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc

WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

CERTAINTEED CORP

JOHNS MANVILLE KNAUF INSULATION LLC MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m³ ROCK WOOL MANUFACTURING CO — Delta Board

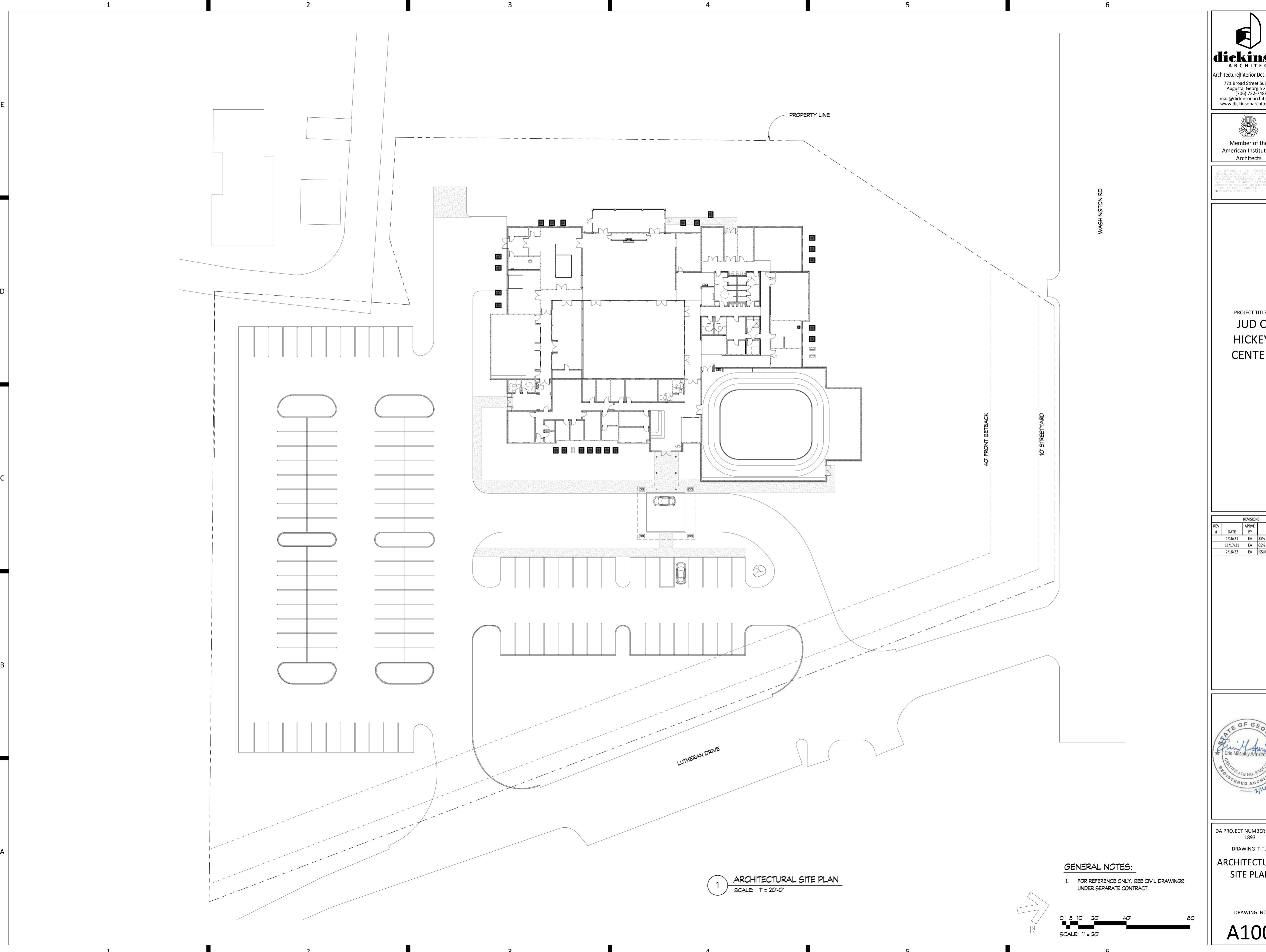
THERMAFIBER INC — Type SAFB, SAFB FF

friction-fitted to fill interior of wall.

Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets

the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus perimeter for sound control

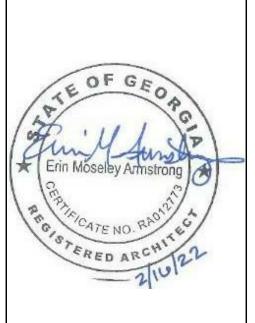




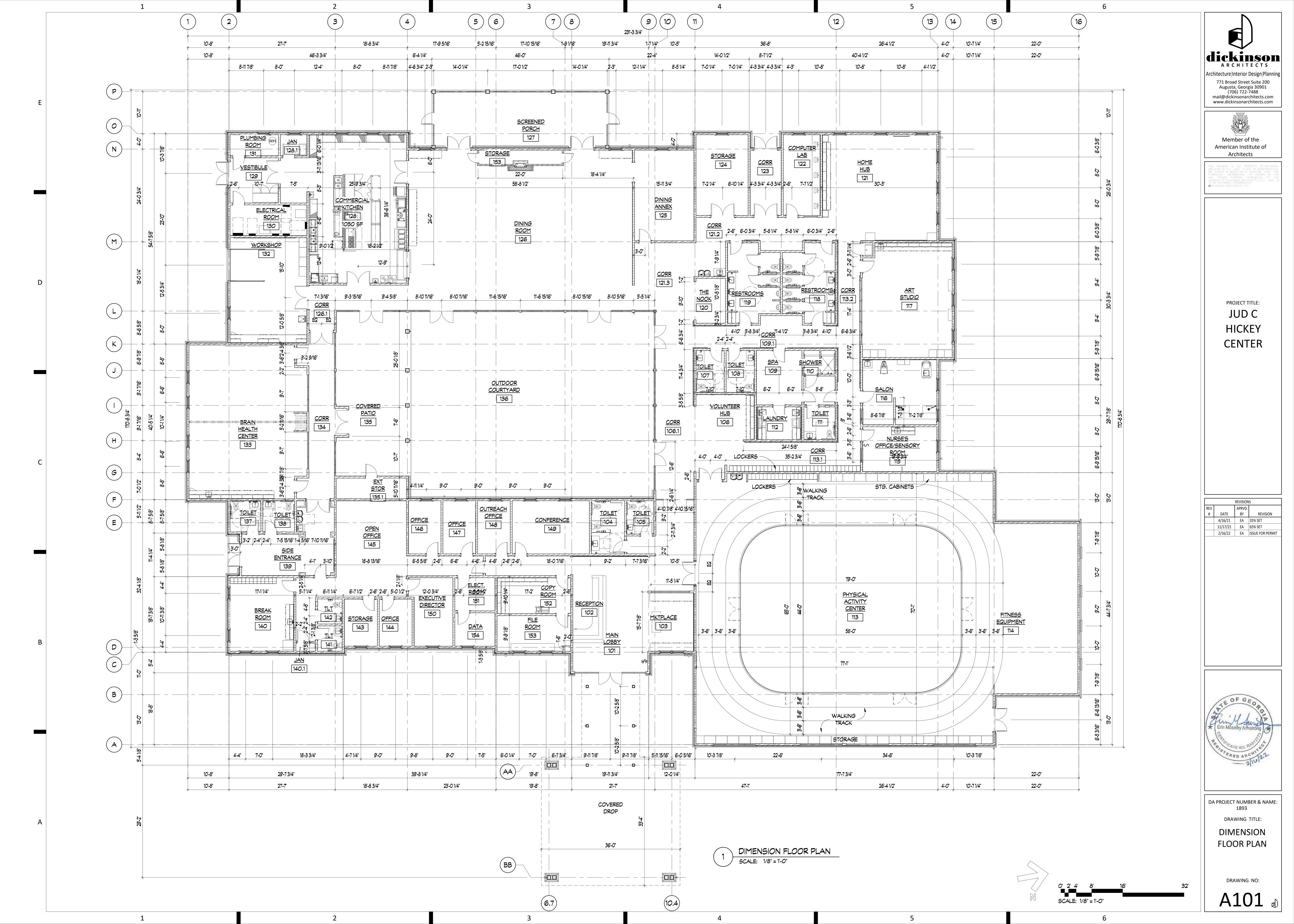


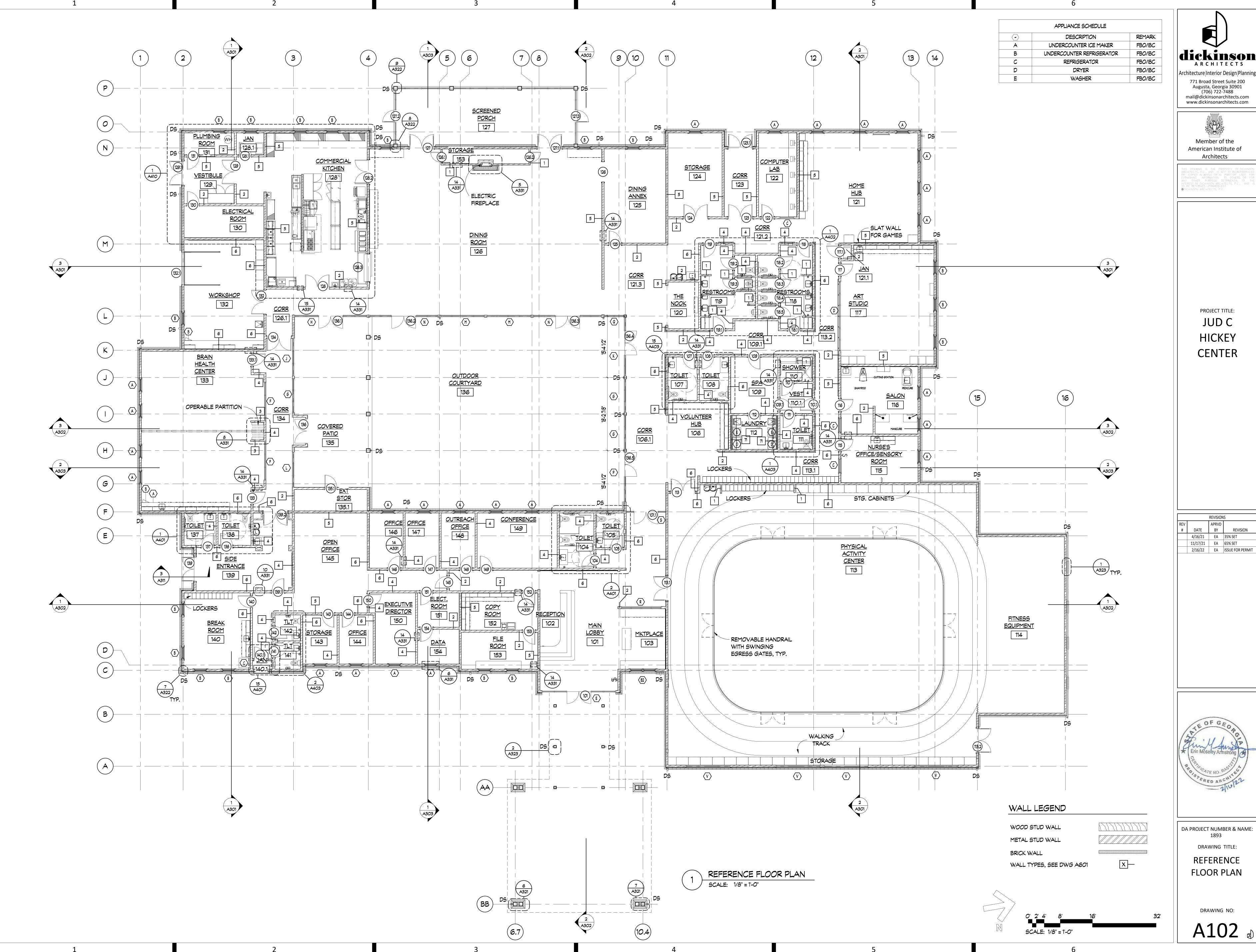
PROJECT TITLE: JUD C HICKEY CENTER

11/17/21 EA 65% SET 2/16/22 EA ISSUE FOR PERMIT



DA PROJECT NUMBER & NAME: DRAWING TITLE: ARCHITECTURAL SITE PLAN

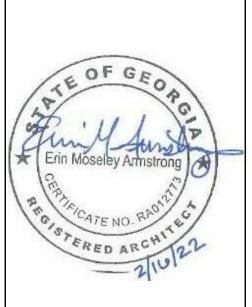




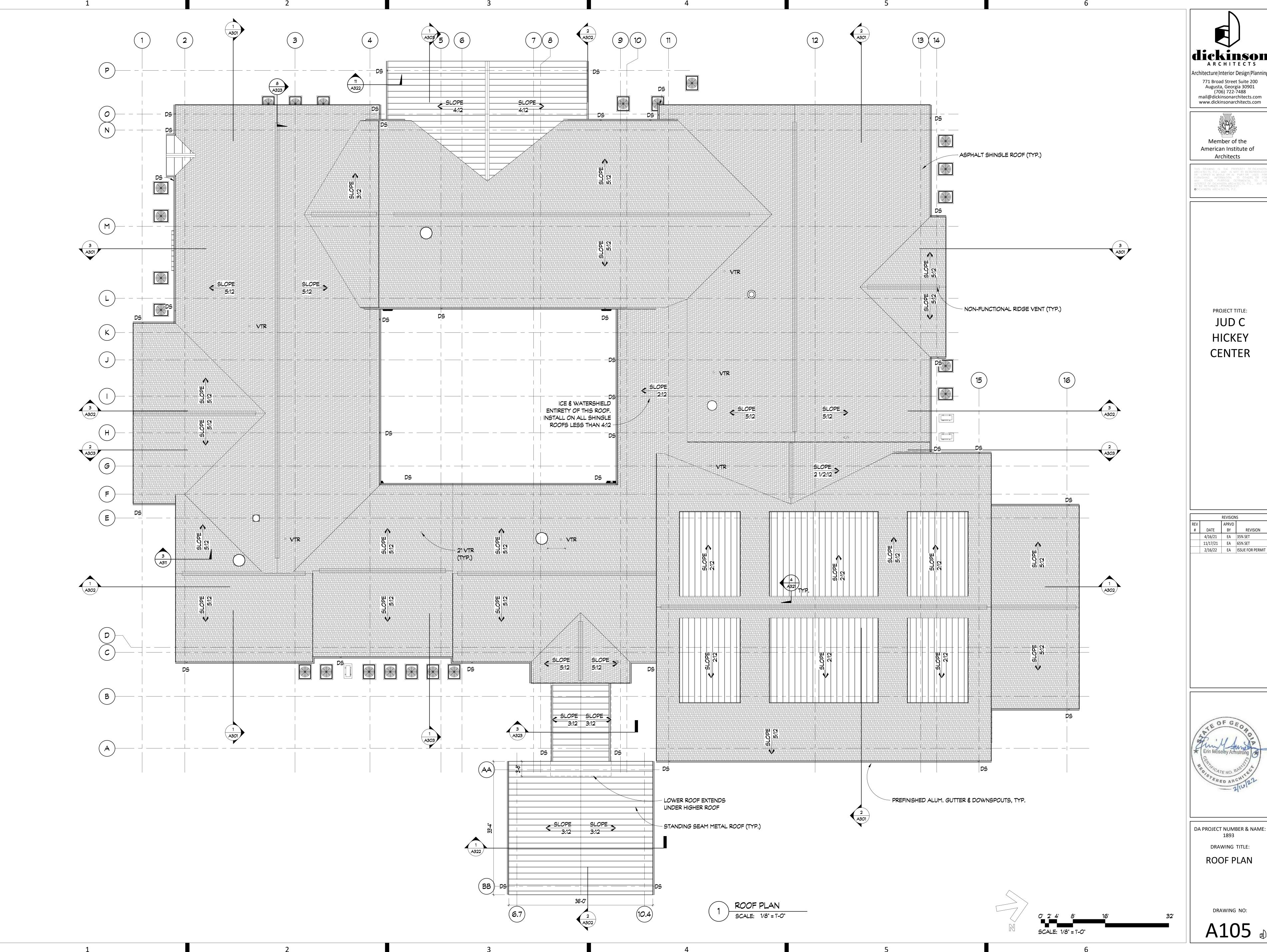
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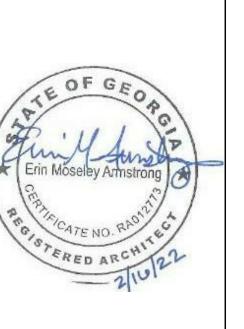


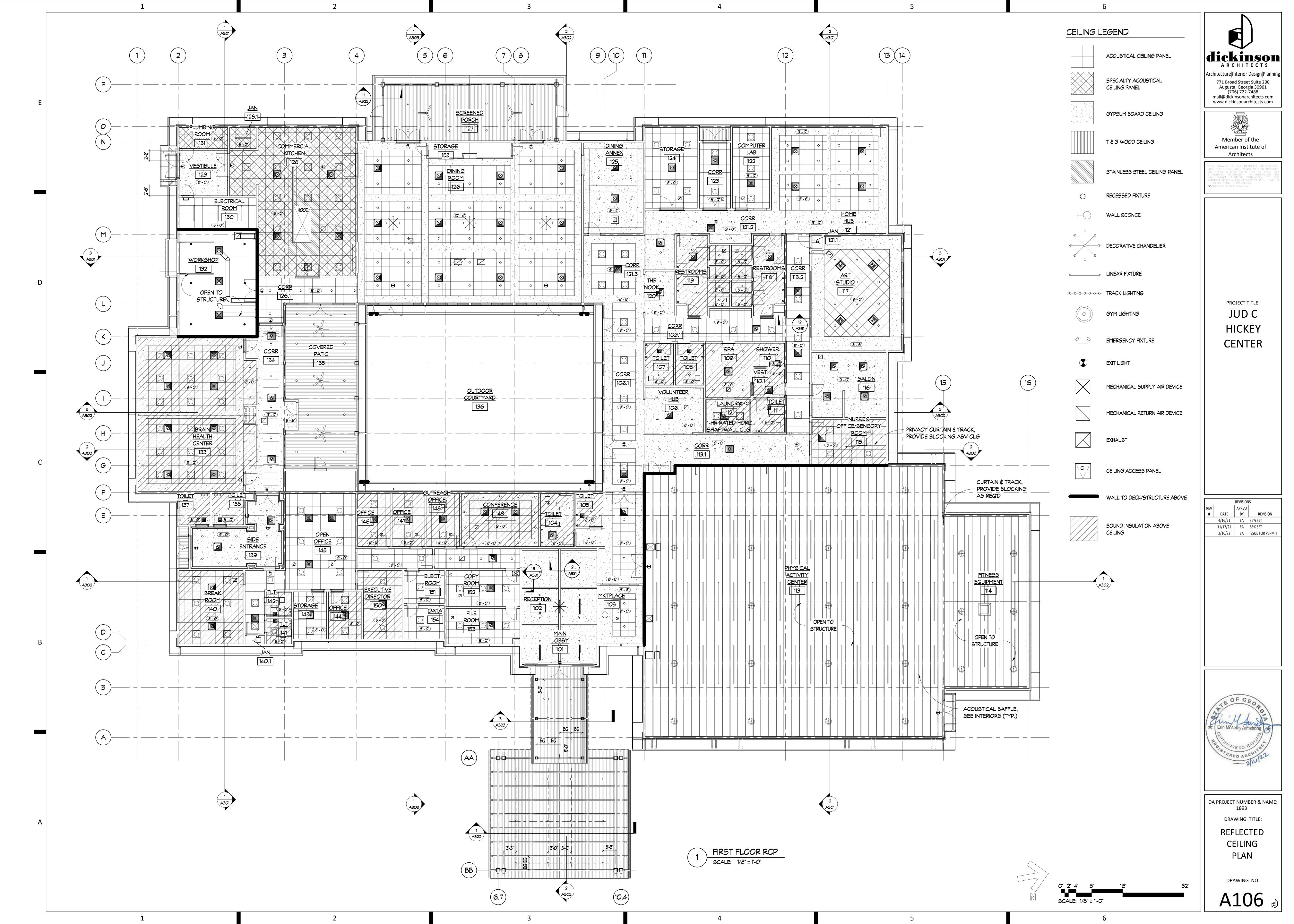
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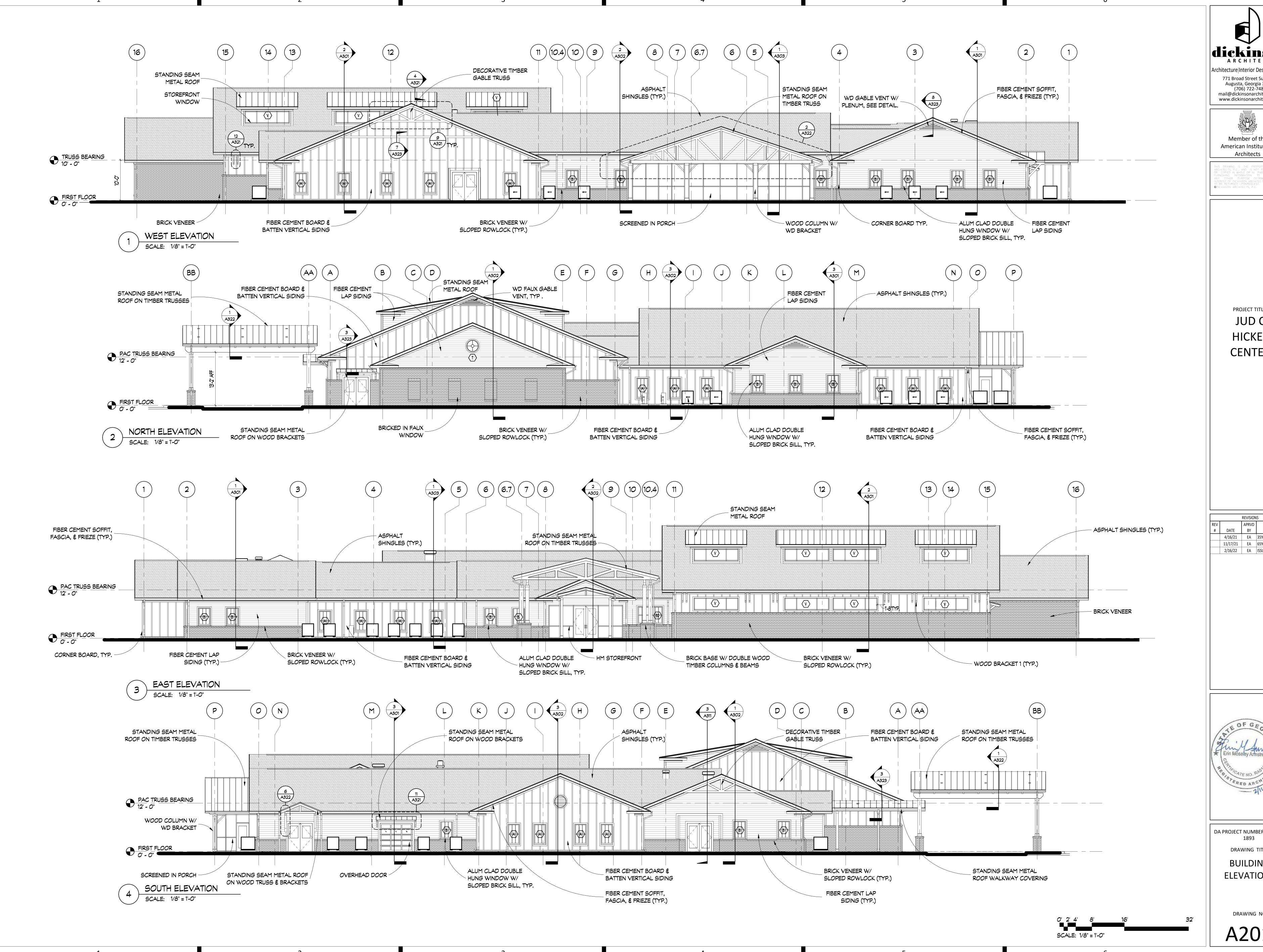


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4/16/21 EA 35% SET
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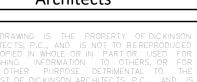






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PROJECT TITLE: JUD C HICKEY CENTER

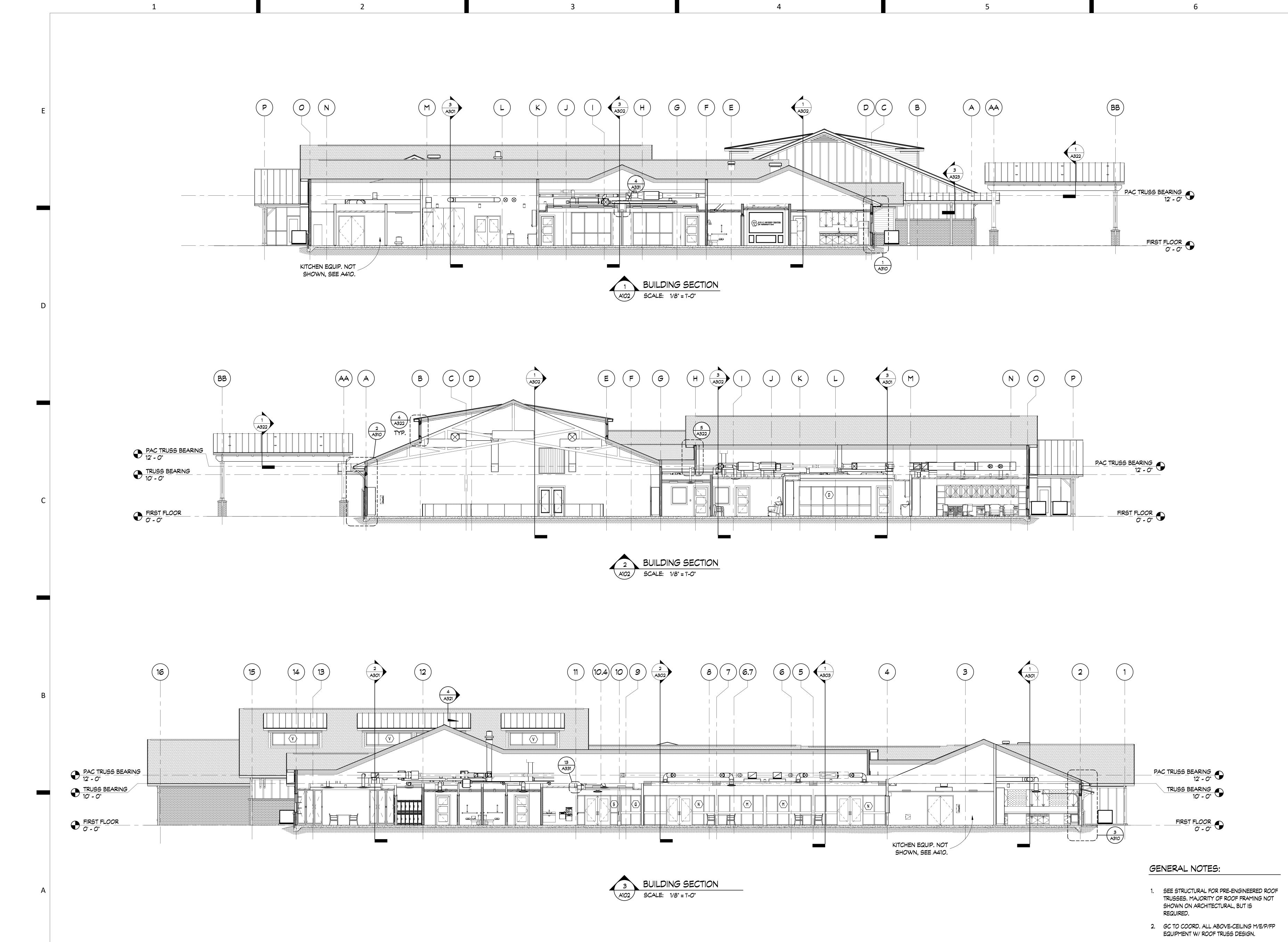
APRVD DATE BY 4/16/21 EA 35% SET 11/17/21 EA 65% SET 2/16/22 EA ISSUE FOR PERMIT

ERED ARC

DA PROJECT NUMBER & NAME: DRAWING TITLE: BUILDING **ELEVATIONS**

DRAWING NO:

A201



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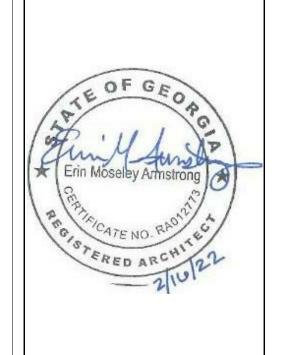
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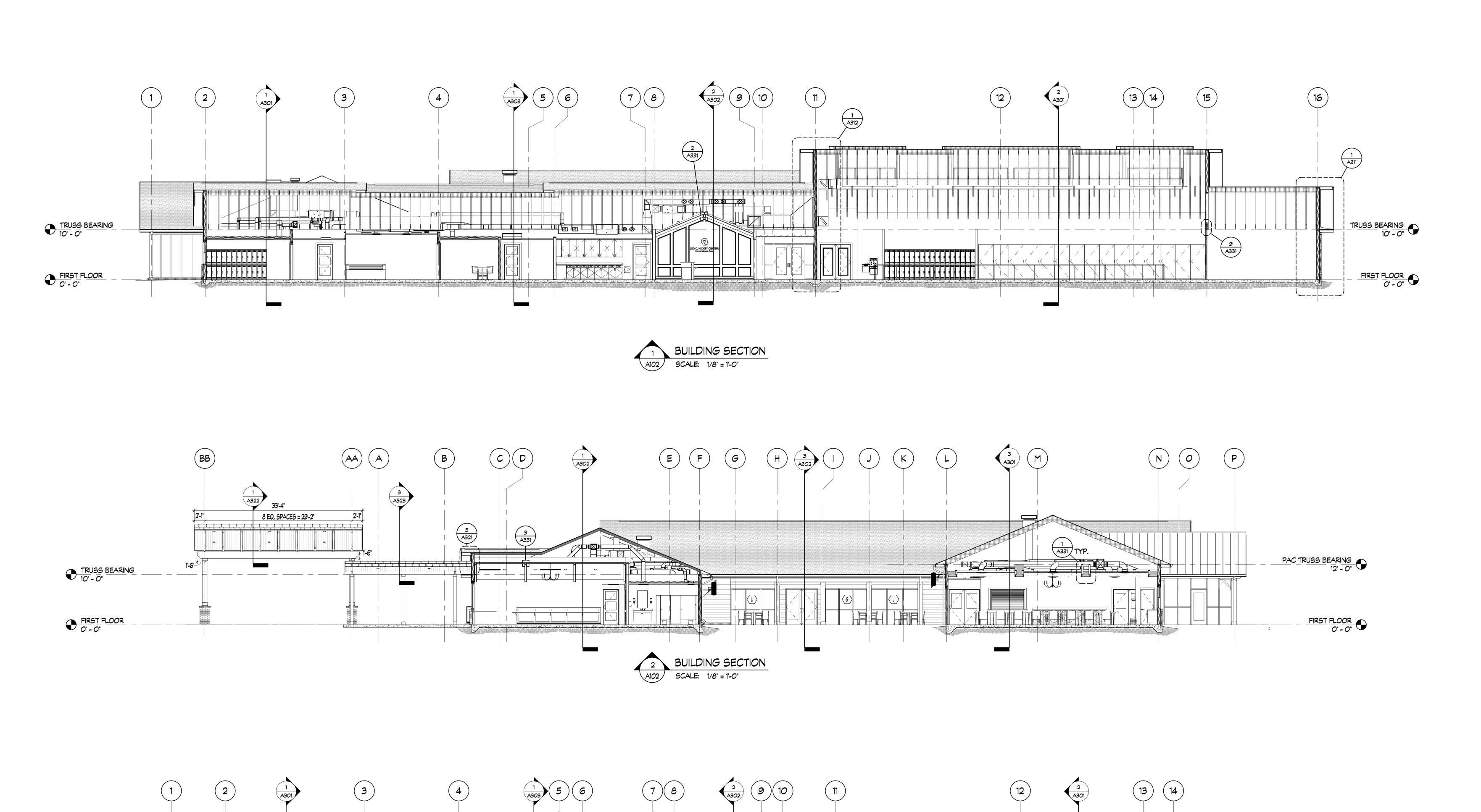
DA PROJECT NUMBER & NAME: 1893 DRAWING TITLE:

BUILDING SECTIONS

DRAWING NO:

SCALE: 1/8" = 1'-0"

A301



BUILDING SECTION

SCALE: 1/8" = 1'-0"

PAC TRUSS BEARING
12' - 0"

TRUSS BEARING

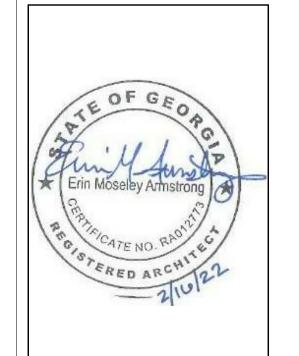




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JUD C
HICKEY
CENTER



DA PROJECT NUMBER & NAME: 1893 DRAWING TITLE:

BUILDING SECTIONS

DRAWING NO:

A302

O' 2' 4' 8' 16' SCALE: 1/8" = 1'-0"

1. SEE STRUCTURAL FOR PRE-ENGINEERED ROOF TRUSSES. MAJORITY OF ROOF FRAMING NOT

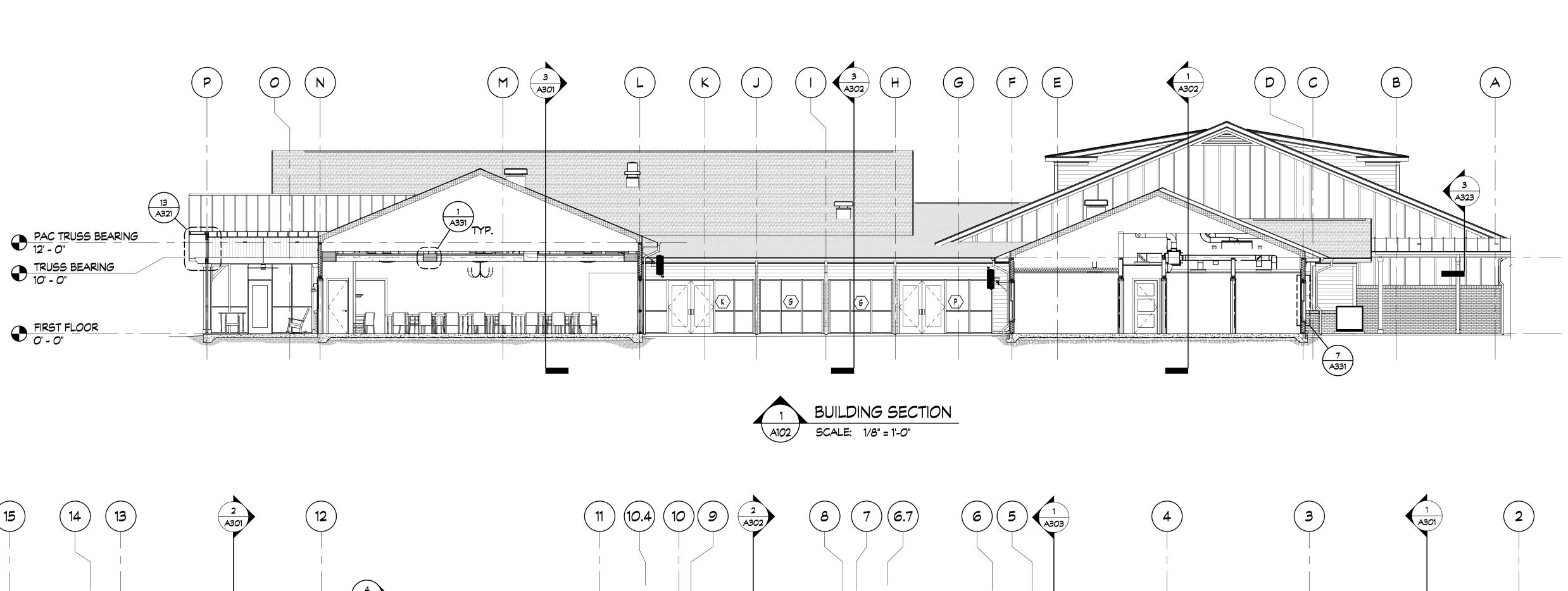
SHOWN ON ARCHITECTURAL, BUT IS

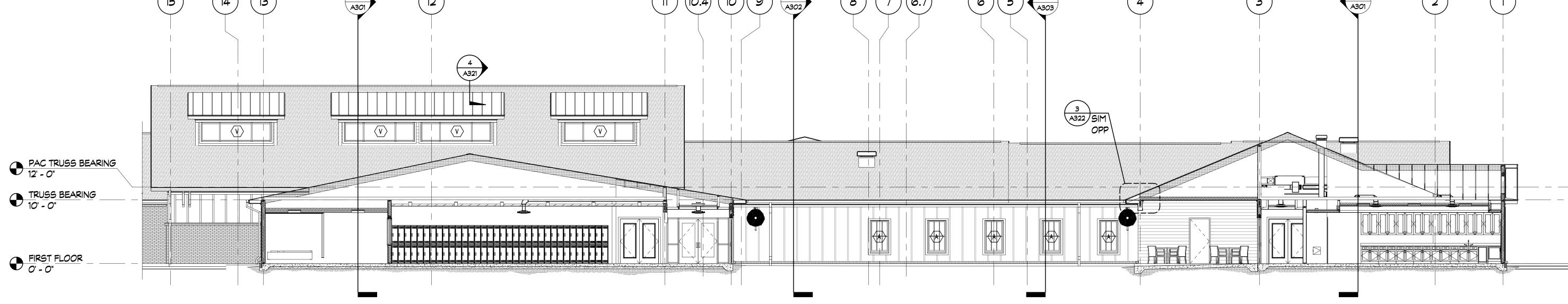
2. GC TO COORD. ALL ABOVE-CEILING M/E/P/FP

EQUIPMENT W/ ROOF TRUSS DESIGN.

GENERAL NOTES:

REQUIRED.

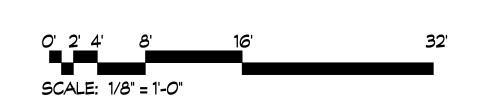






GENERAL NOTES:

- SEE STRUCTURAL FOR PRE-ENGINEERED ROOF TRUSSES. MAJORITY OF ROOF FRAMING NOT SHOWN ON ARCHITECTURAL, BUT IS REQUIRED.
- 2. GC TO COORD. ALL ABOVE-CEILING M/E/P/FP EQUIPMENT W/ ROOF TRUSS DESIGN.



ARCHITECTS

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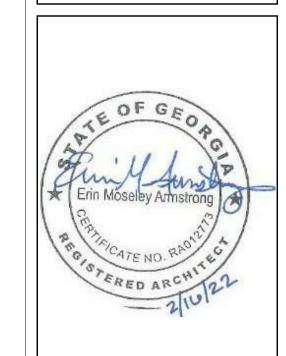
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DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

SECTIONS

DRAWING NO:

303

GENERAL NOTES:

- WOOD TRUSS, SEE STRUCT.

UNDERLAYMENT

- 2X SOFFIT FRAMING

SEWER, SEE CIVIL

FIBER CEMENT SOFFIT

FIBER CEMENT FRIEZE BOARD

- STANDING SEAM METAL ROOF

- MECH. FASTENED AIR BARRIER

- 2X6 WOOD STUD @ 16" O.C.

- STAIN GRADE WD BRACKET,

- SLOPED BRICK SILL BEYOND

- CONCRETE SLAB, SEE STRUCT.

- UNDER SLAB VAPOR BARRIER

- 4" COMPACTED SAND LAYER

- COMPACTED SUB-GRADE

- COMPRESSIBLE FILLER & SEALANT

- BRICK VENEER BEYOND

— 2X HEADER, SEE STRUCT.

FIBER CEMENT LAP SIDING, 6" EXPOSURE - FIBERGLASS BATT INSULATION, R-20 MIN.

- PLYWOOD SHEATHING, SEE STRUCT.

KDAT BED MOLD

- FLASHING

- FLASHING

- FLASHING

SEE DETAIL.

SCHEDULED DOOR

- PAVING, SEE CIVIL

FIBER CEMENT FASCIA

PRE-FINISHED ALUM. GUTTER & - DOWNSPOUT. CONNECT TO STORM

ASPHALT SHINGLES ON SYNTHETIC

- PLYWOOD SHEATHING, SEE STRUCT.

- OPEN CELL POLYICYNENE FOAM INSULATION

TRUSS BEARING 10' - 0"

W/THERMAL BARRIER. ACHIEVE R-38 MIN.

2'-3 1/4"

SLOPE >

WALL SECTION

A301 SCALE: 3/4" = 1'-0"

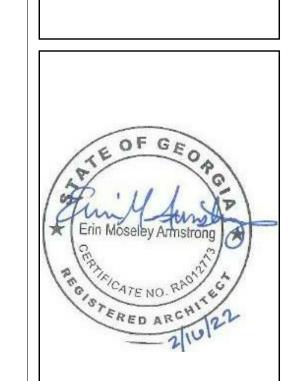
- 1. SEE STRUCTURAL FOR PRE-ENGINEERED ROOF TRUSSES. MAJORITY OF ROOF FRAMING NOT SHOWN ON ARCHITECTURAL, BUT IS REQUIRED.
- 2. GC TO COORD. ALL ABOVE-CEILING M/E/P/FP EQUIPMENT W/ ROOF TRUSS DESIGN.

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PROJECT TITLE: JUD C HICKEY CENTER

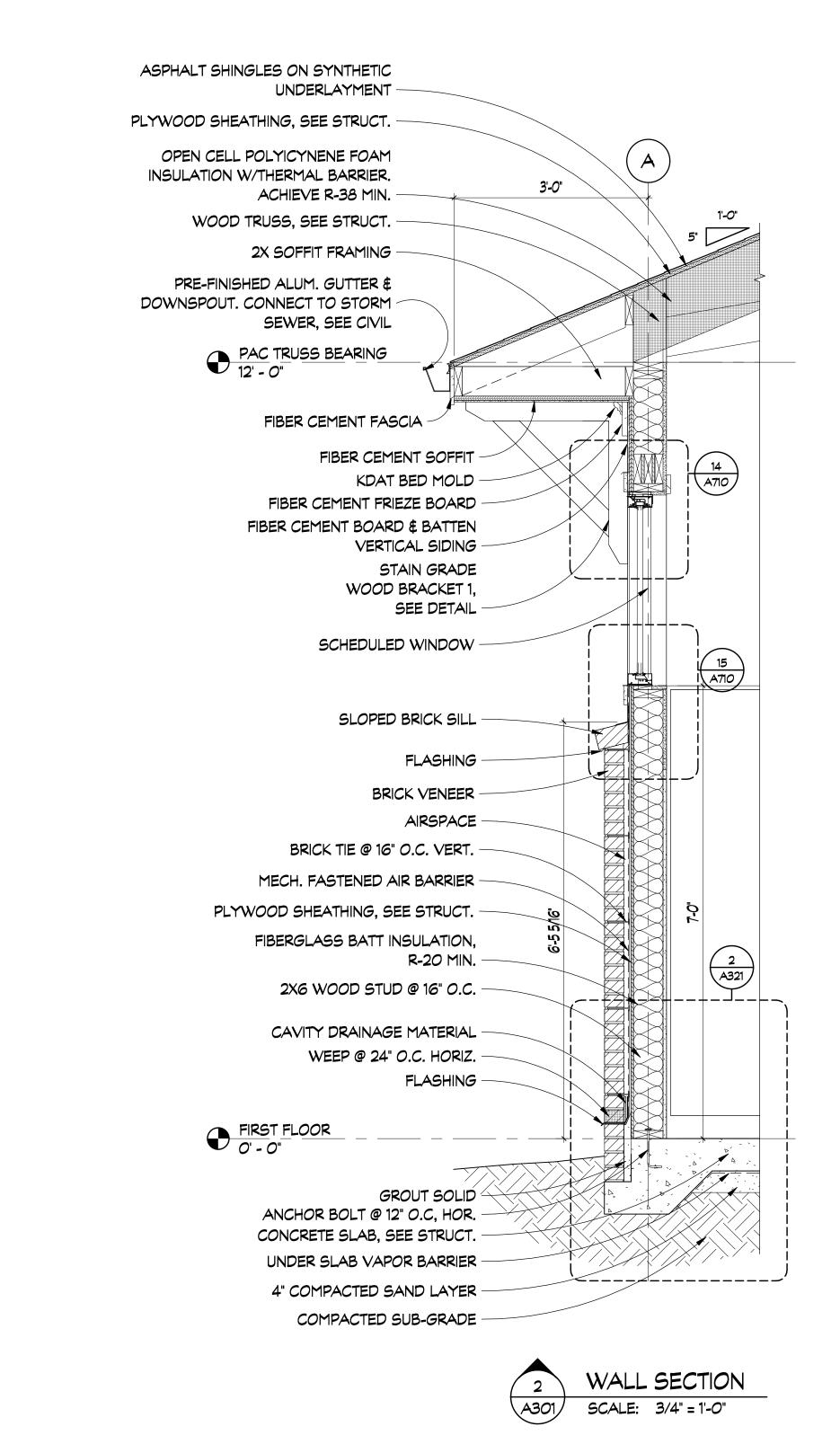
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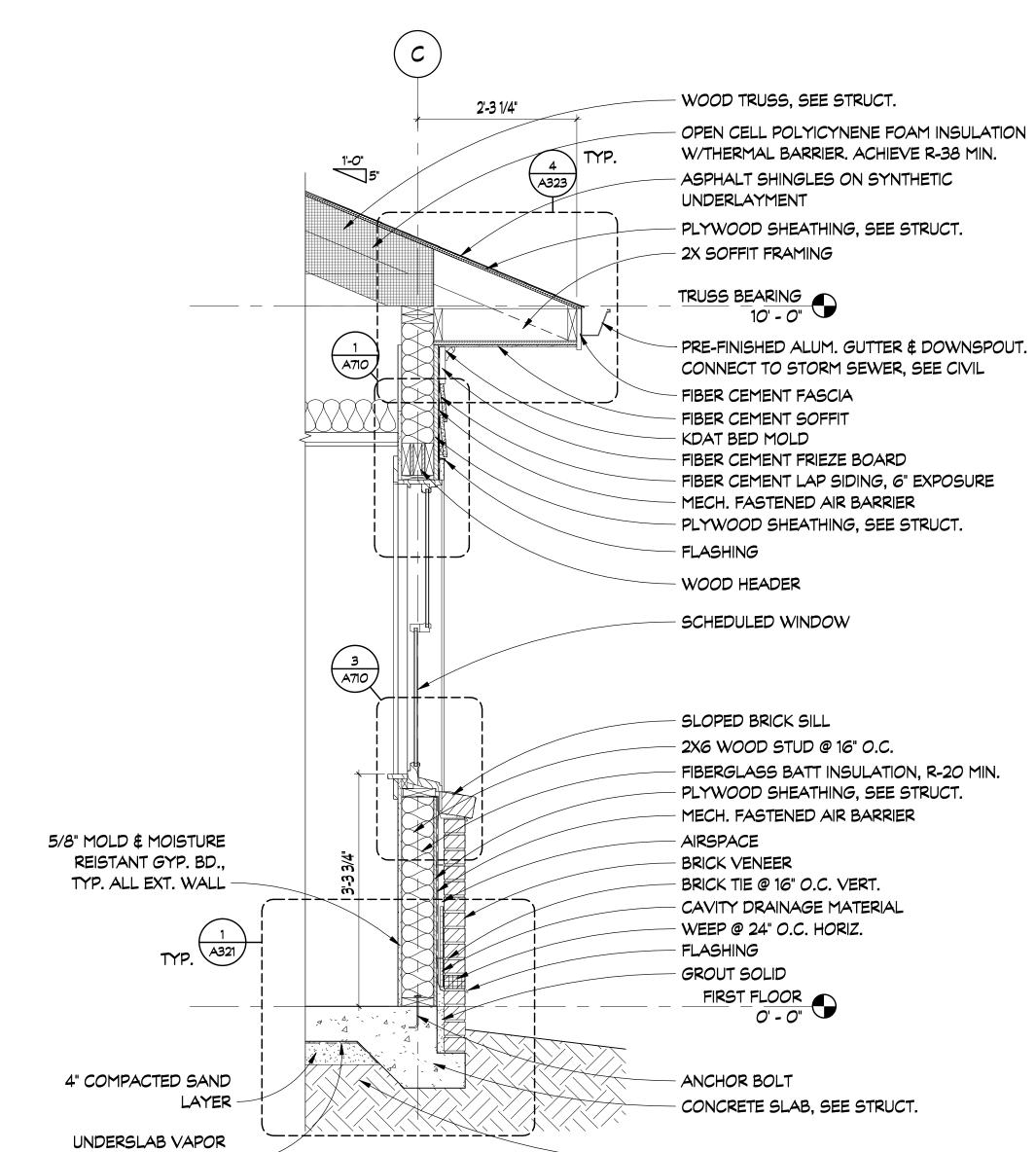


DA PROJECT NUMBER & NAME: DRAWING TITLE: WALL **SECTIONS**

DRAWING NO:

SCALE: 3/4" = 1'-0"





WALL SECTION SCALE: 3/4" = 1'-0"

- COMPACTED SUB-GRADE

BARRIER

GENERAL NOTES:

- 1. SEE STRUCTURAL FOR PRE-ENGINEERED ROOF TRUSSES. MAJORITY OF ROOF FRAMING NOT SHOWN ON ARCHITECTURAL, BUT IS REQUIRED.
- 2. GC TO COORD. ALL ABOVE-CEILING M/E/P/FP EQUIPMENT W/ ROOF TRUSS DESIGN.

SCALE: 3/4" = 1'-0"



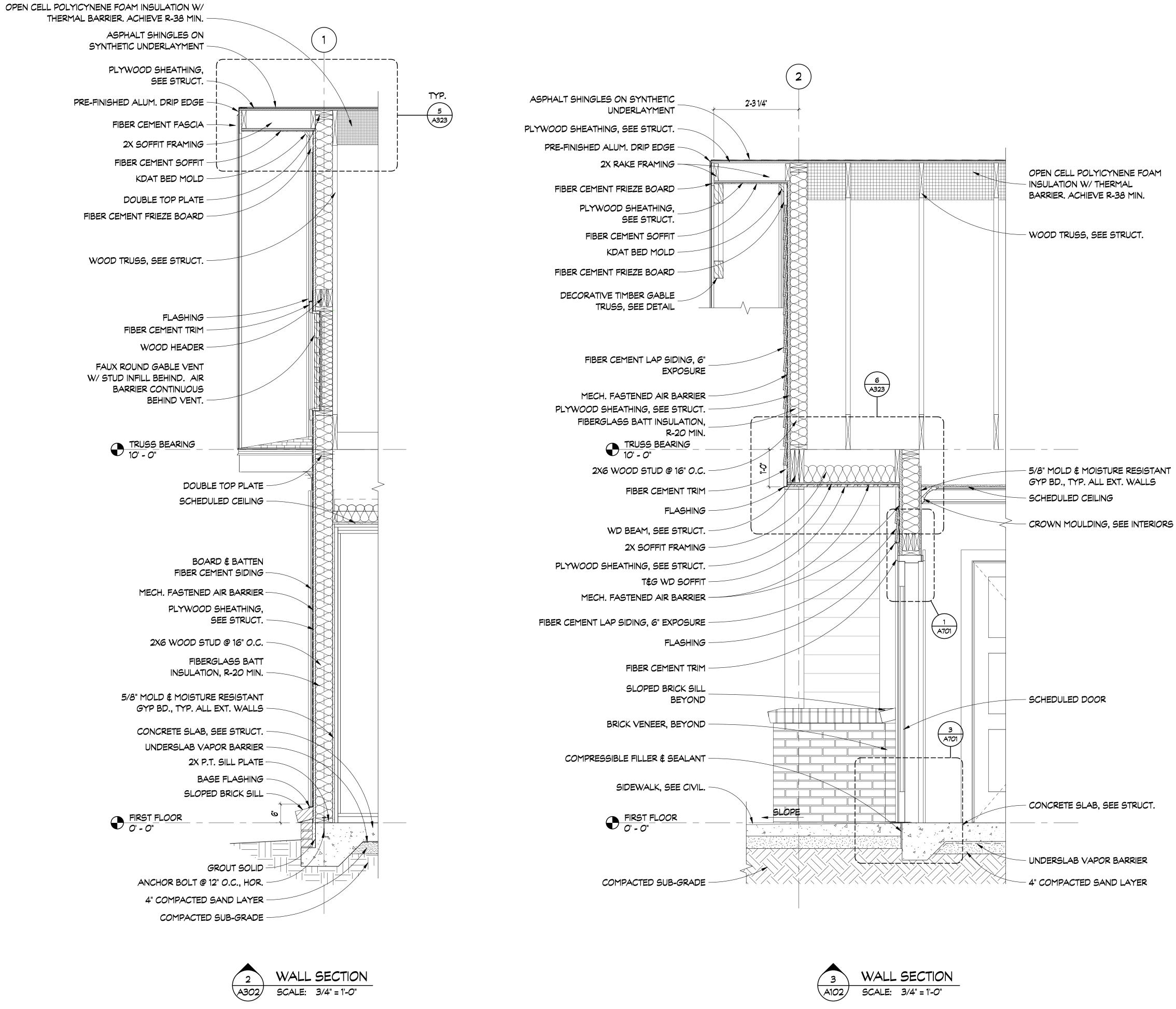


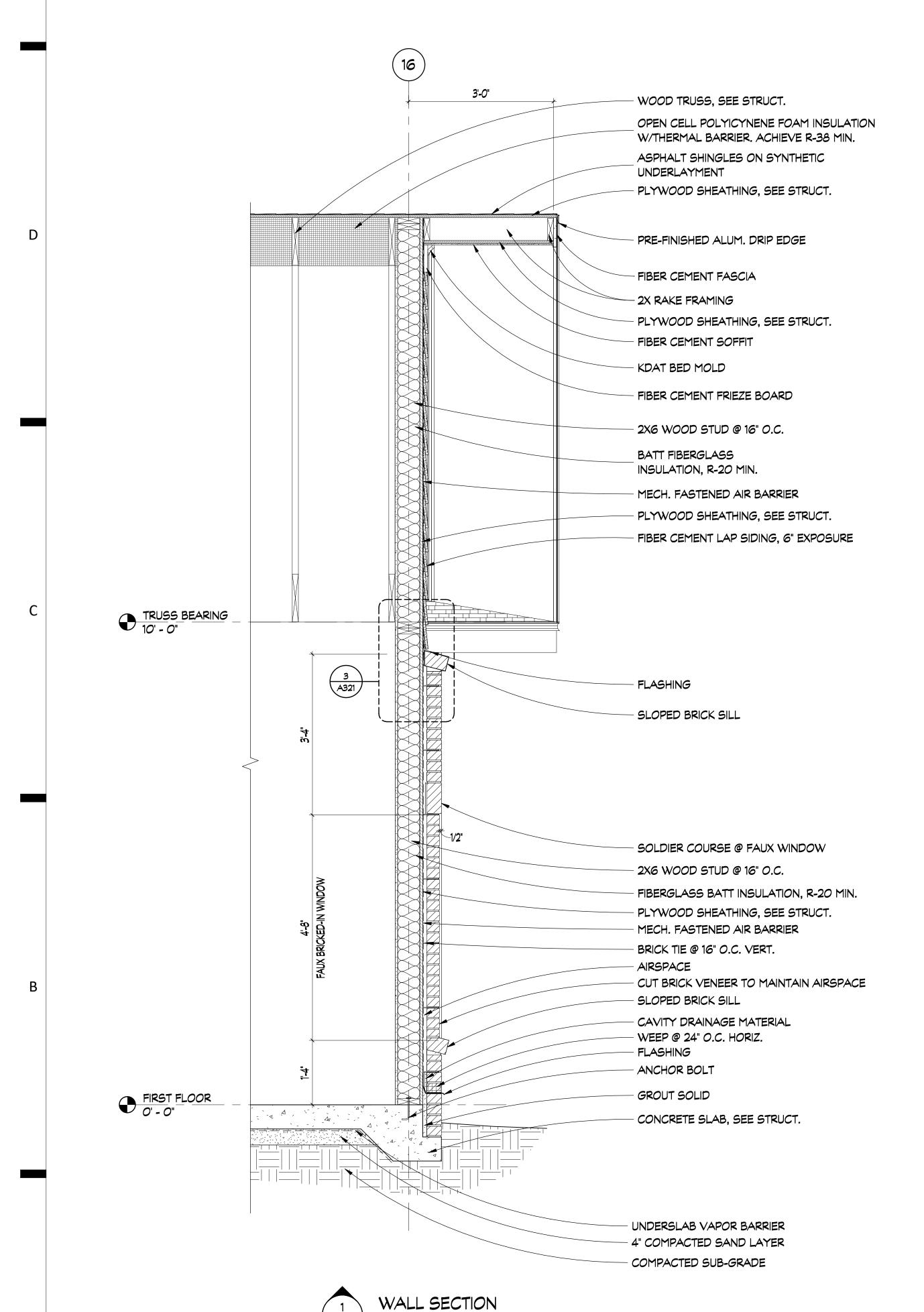
PROJECT TITLE: JUD C HICKEY CENTER

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DA PROJECT NUMBER & NAME: DRAWING TITLE: WALL **SECTIONS**

DRAWING NO: A311





SCALE: 3/4" = 1'-0"

ASPHALT SHINGLES ON SYNTHETIC UNDERLAYMENT PLYWOOD SHEATHING, SEE STRUCT. -__________________ PRE-FINISHED ALUM. DRIP EDGE -2X SOFFIT FRAMING -FIBER CEMENT FASCIA -PLYWOOD SHEATHING, SEE STRUCT. FIBER CEMENT SOFFIT -KDAT BED MOLD -FIBER CEMENT FRIEZE BOARD -OPEN CELL POLYICYNENE FOAM INSULATION W/ THERMAL BARRIER. ACHIEVE R-38 MIN. PAINT EXPOSED STRUCTURE & FIBER CEMENT BOARD & BATTEN CEILING SIDING MECH. FASTENED AIR BARRIER -PLYWOOD SHEATHING, SEE STRUCT. 2X6 WOOD STUD @ 16" O.C. -ASPHALT SHINGLES ON SYNTHETIC UNDERLAYMENT PLYWOOD SHEATHING, SEE STRUCT. OPEN CELL POLYICYNENE FOAM INSULATION W/ THERMAL -BARRIER. ACHIEVE R-38 MIN. SIDEWALL FLASHING, TYP. FIBERGLASS BATT INSULATION, R-20 MIN. WOOD TRUSS, SEE STRUCT. -PAC TRUSS BEARING
12' - O" TRUSS BEARING SCHEDULED CEILING -CONCRETE SLAB, SEE STRUCT. -FIRST FLOOR
0' - 0" UNDERSLAB VAPOR BARRIER -4" COMPACTED SAND -COMPACTED SUB-GRADE WALL SECTION

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

1. SEE STRUCTURAL FOR PRE-ENGINEERED ROOF TRUSSES. MAJORITY OF ROOF FRAMING NOT SHOWN ON ARCHITECTURAL, BUT IS REQUIRED.

2. GC TO COORD. ALL ABOVE-CEILING M/E/P/FP EQUIPMENT W/ ROOF TRUSS DESIGN.





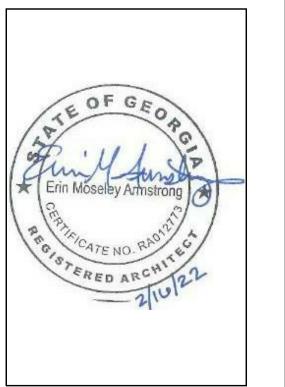
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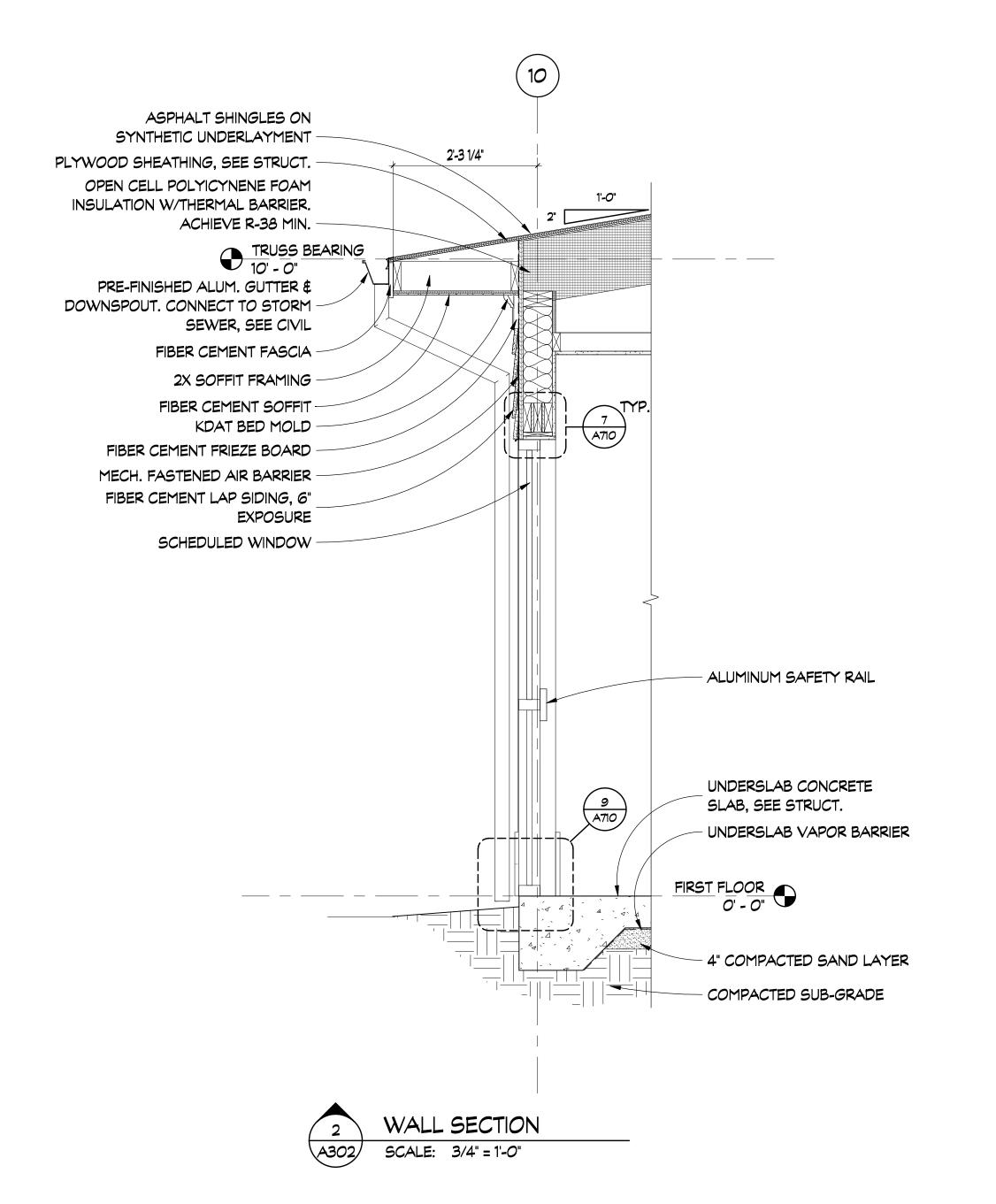
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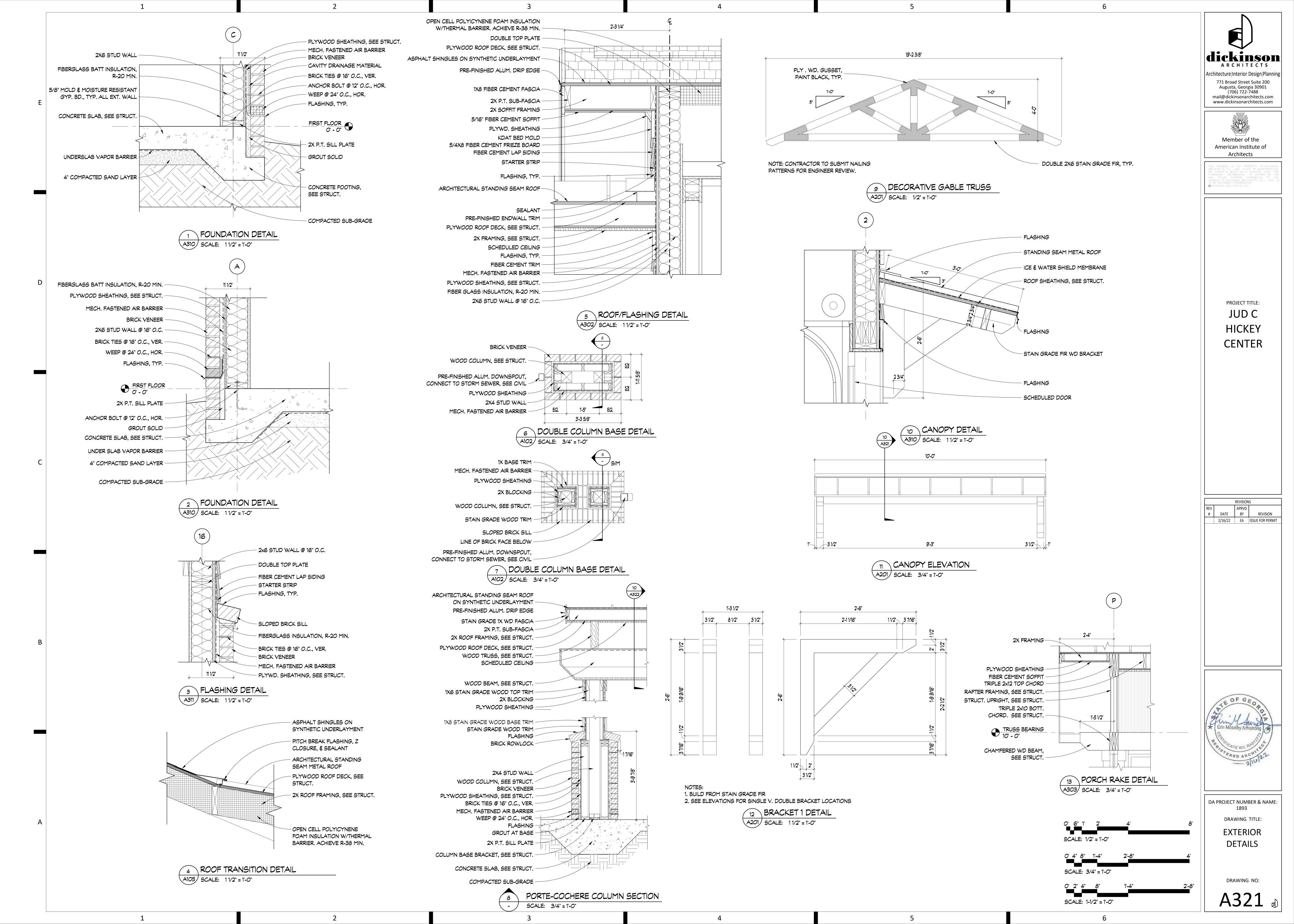
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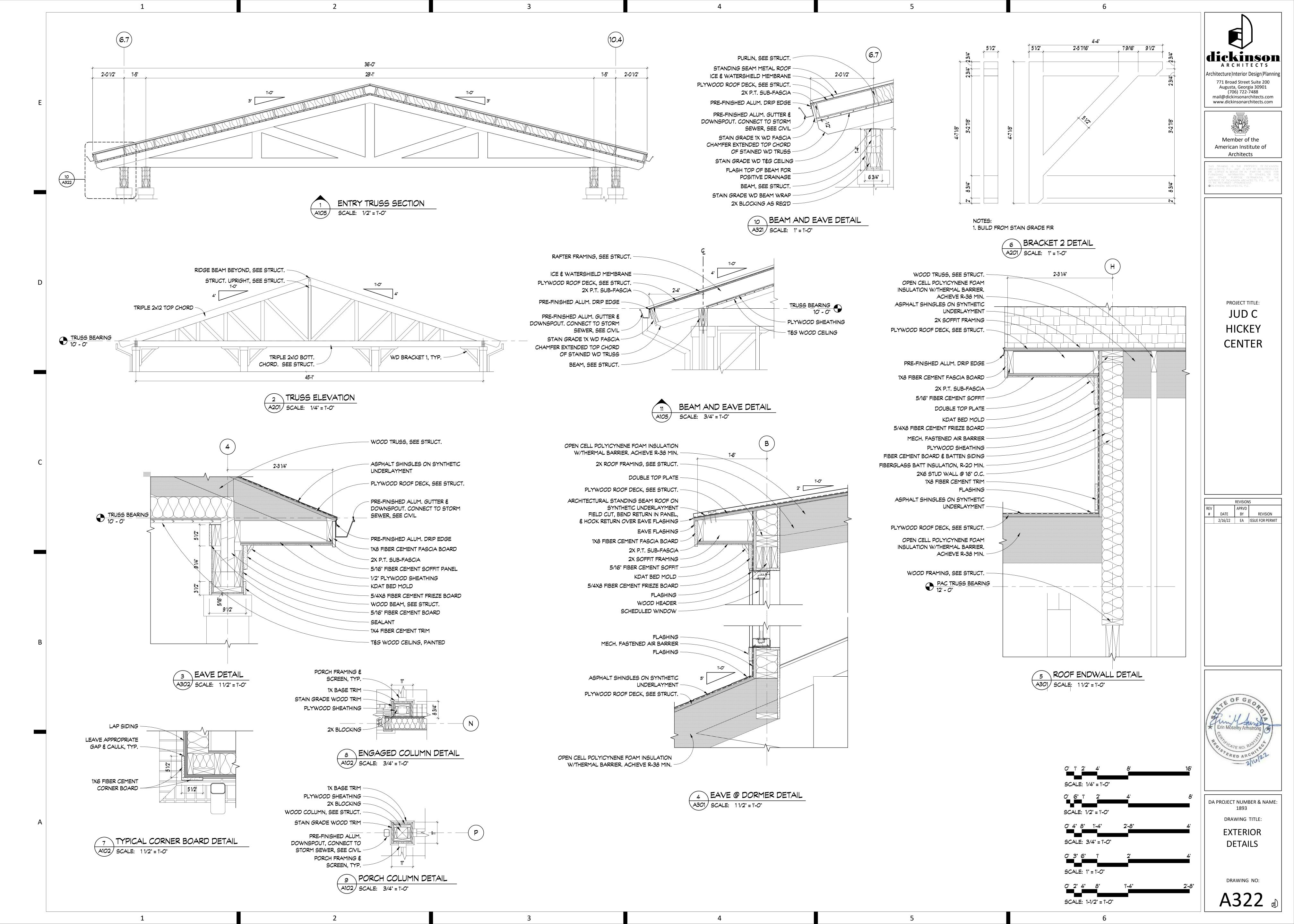
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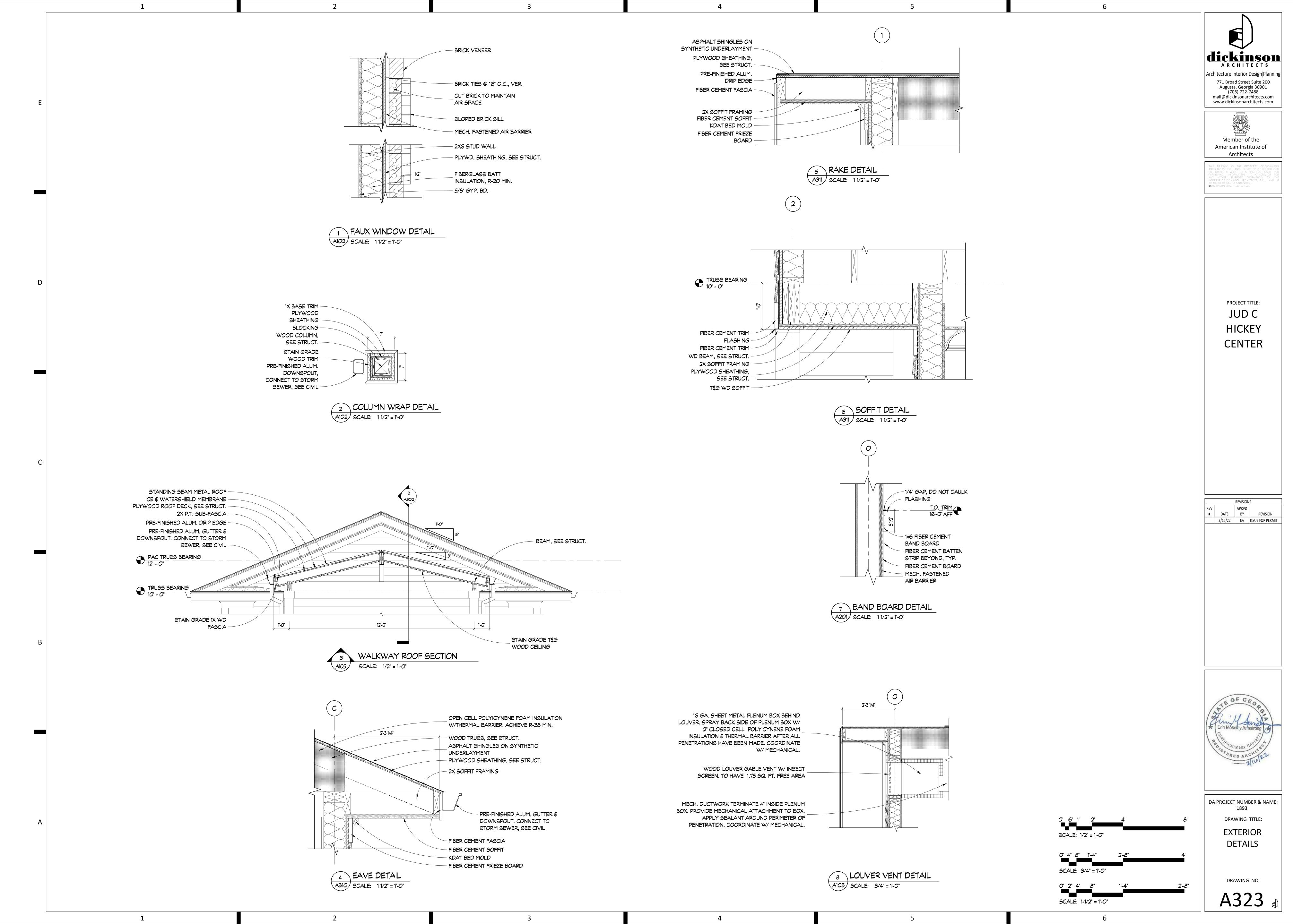
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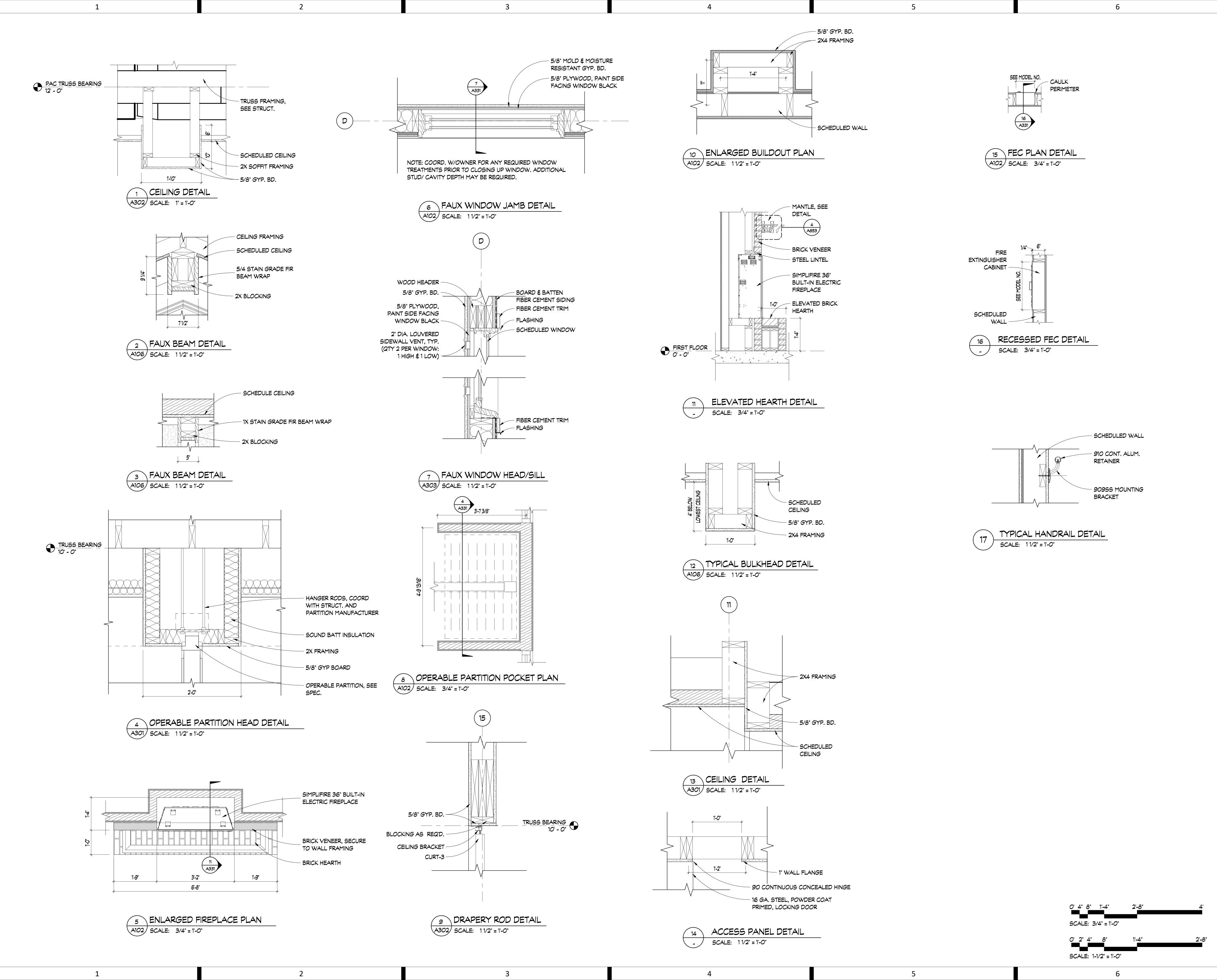
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Erin Moseley Armstrong

ROSTERED ARCHITECT

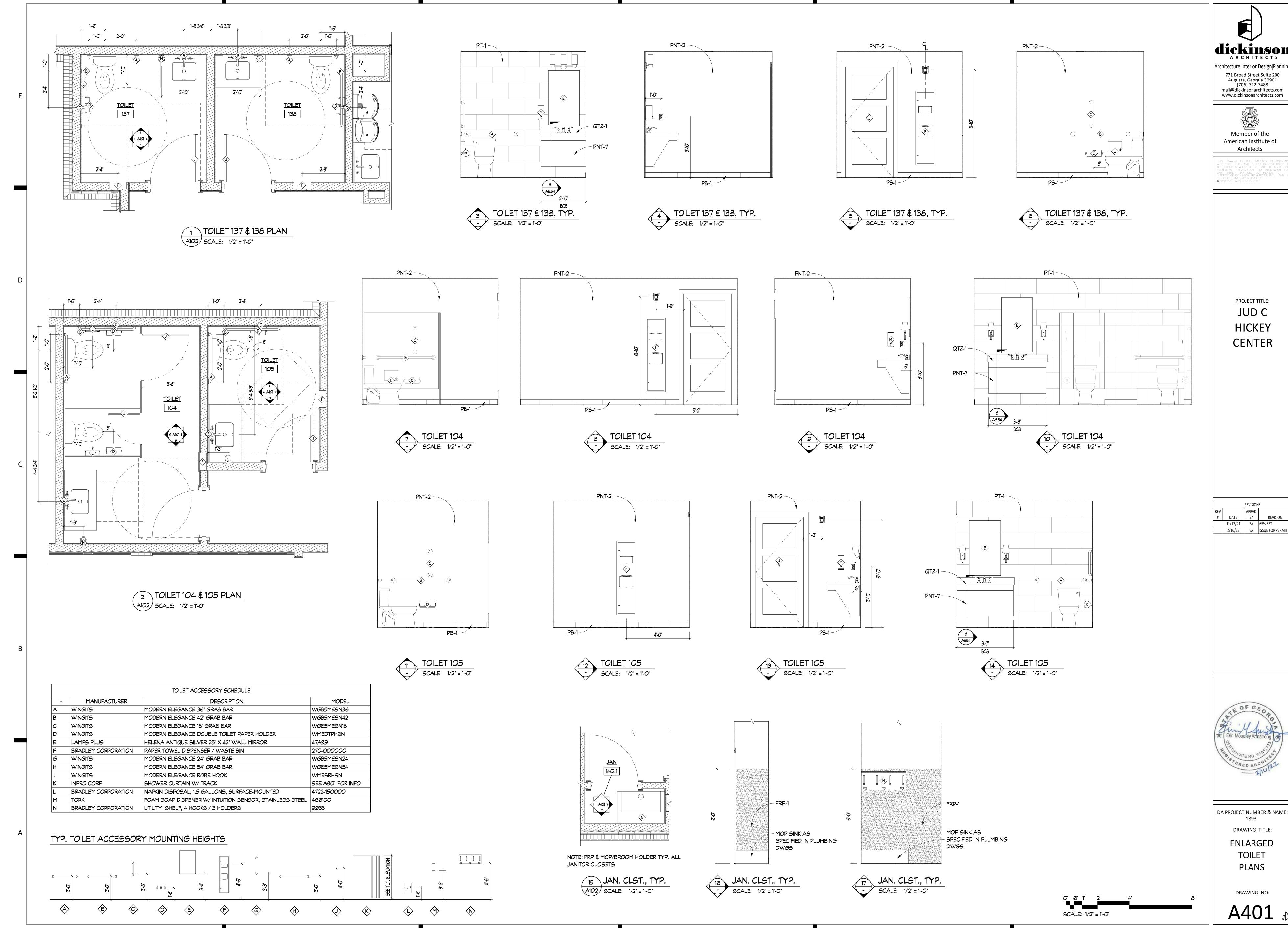
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DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

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DETAILS



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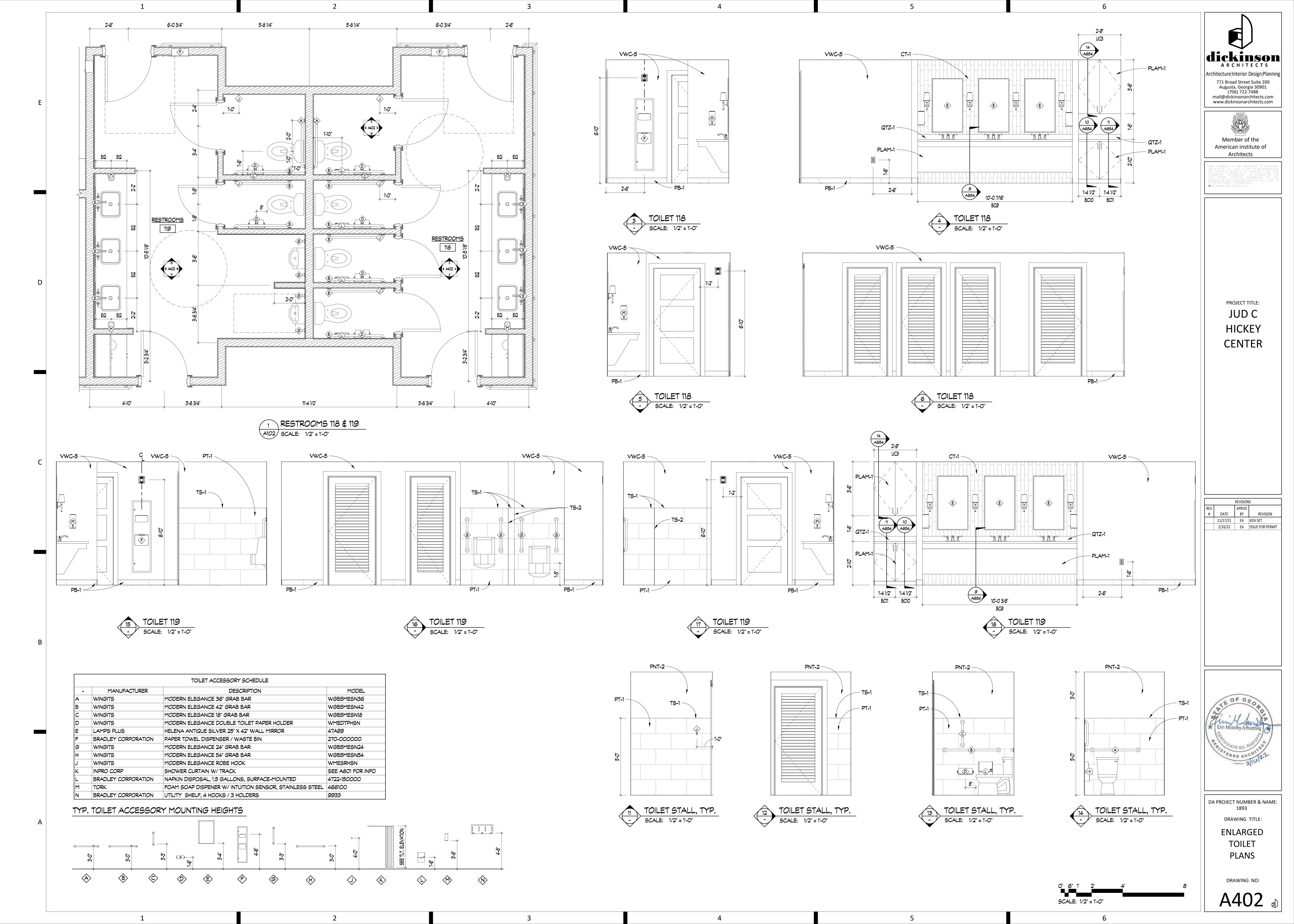




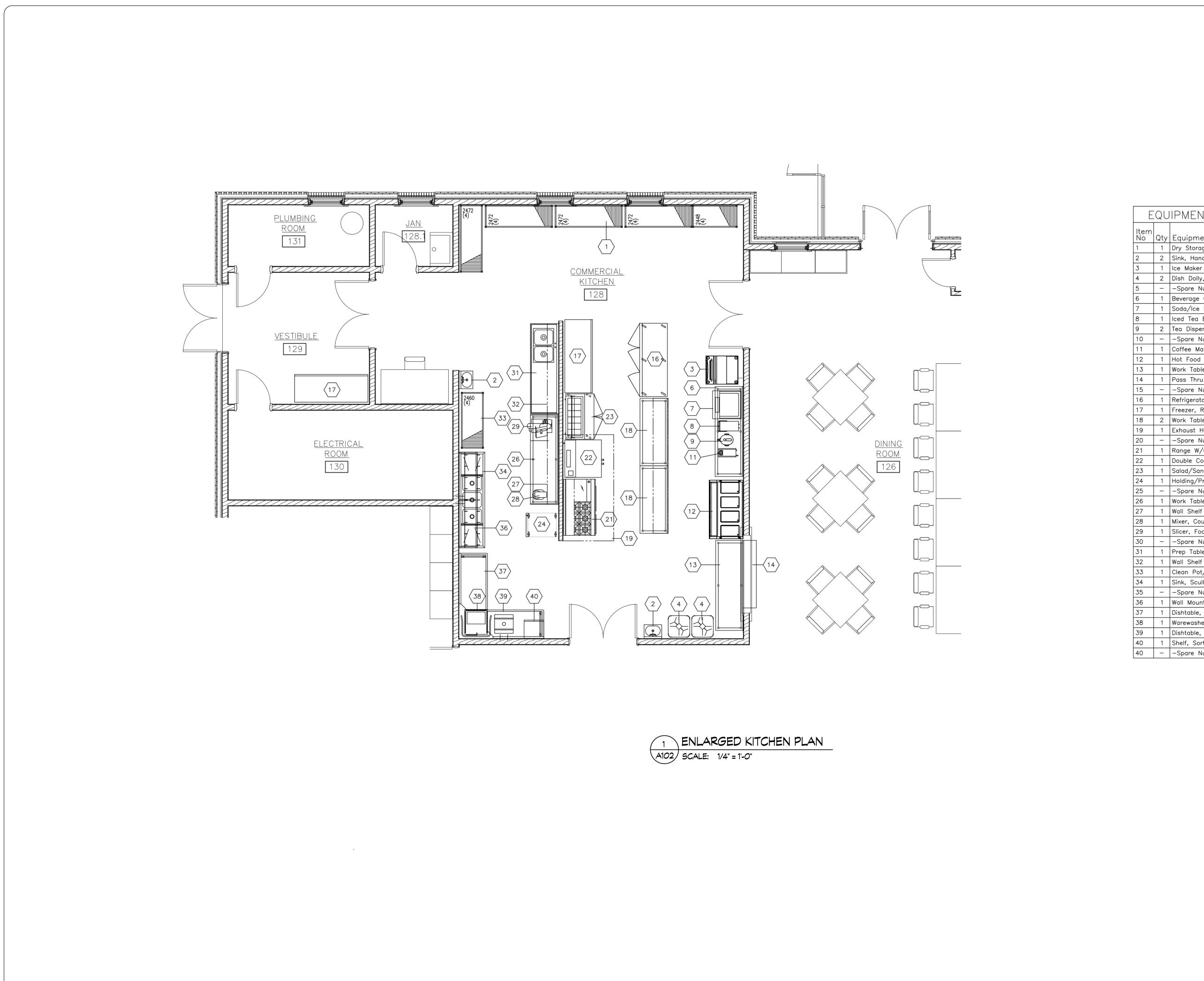
PROJECT TITLE: JUD C HICKEY CENTER

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DA PROJECT NUMBER & NAME: DRAWING TITLE: **ENLARGED TOILET PLANS**







EQUIPMENT SCHEDULE No Qty Equipment Category 1 Dry Storage Shelving 2 Sink, Hand, Wall Mount 1 |Ice Maker w/ Bin 2 Dish Dolly, Adjustable - Spare Number-1 Beverage Counter 1 | Soda/Ice Dispenser (By Vendor) 1 | Iced Tea Brewer (USF Beverage) 2 Tea Dispenser (USF Beverage) - Spare Number-11 | 1 | Coffee Maker (USF Beverage) 12 1 Hot Food Table 14 | 1 | Pass Thru Shelf 15 - - Spare Number-16 | 1 | Refrigerator, Reach-In | 17 | 1 | Freezer, Reach-In 18 2 Work Table W/Overshelf 19 | 1 | Exhaust Hood System (By HVAC) 1 Range W/Griddle/Broiler 1 Double Convection Oven 1 | Salad/Sandwich Prep Refrigerator 1 Holding/Proofing Cabinet | - |-Spare Number-1 Wall Shelf 1 Slicer, Food - |-Spare Number-1 Prep Table W/Sinks 32 | 1 | Wall Shelf 1 Clean Pot/Pan Shelving 34 | 1 | Sink, Scullery, 3 Compartments 1 | Wall Mount Shelf W/ Potrack 39 | 1 | Dishtable, Straight, Soiled 1 | Shelf, Sort, Wall Mount Racks 40 - Spare Number-

D.F.F. 7-2-21 D.F.F. 10-29-21

DANNY FRICK APPROVED BY: PROJECT NUMBER

ARCHITECTURAL AND/OR ENGINEERING DRAWINGS. THIS DRAWING REFLECTS DATA ABOUT THE FOOD SERVICE EQUIPMENT IN ACCORDANCE WITH INFORMATION WE HAI WHEN THIS DRAWING WAS MADE. PLEASE REFER TO THE PROPER ARCHITECTURAL AND ENGINEERING DRAWINGS FOR ANY BUILDING OR SITE WORK INFORMATION.

NOTE: KITCHEN EQUIPMENT INCLUDED FOR REFERENCE ONLY. SEE CUT SHEETS FROM OWNER FOR ADDITIONAL INFORMATION

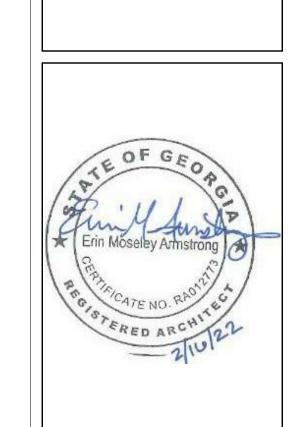




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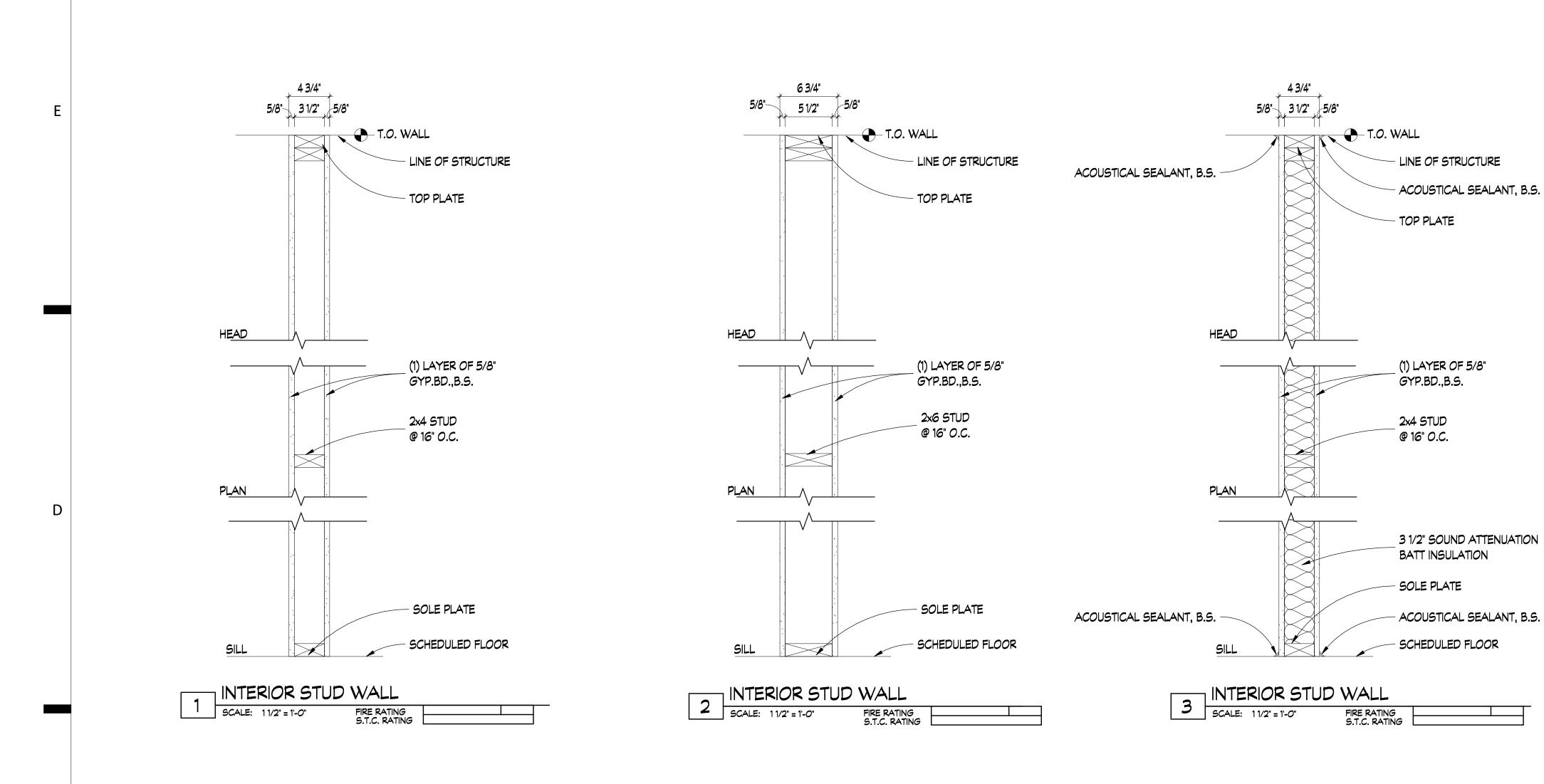
PROJECT TITLE: HICKEY CENTER

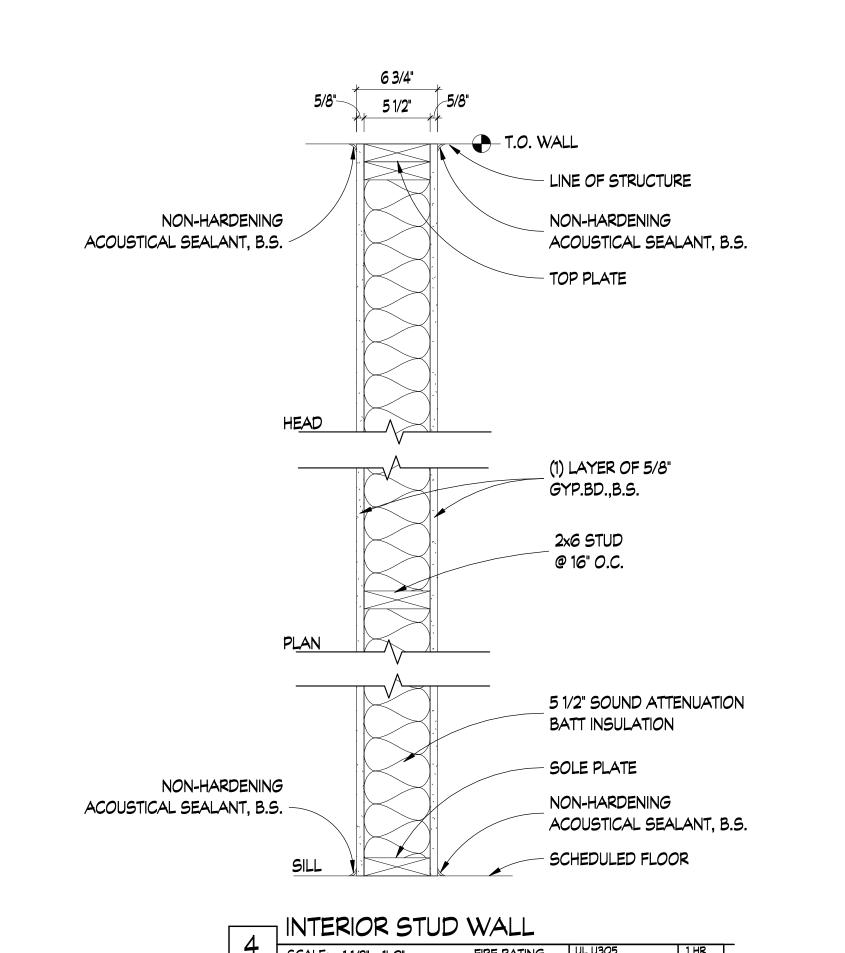
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DRAWING TITLE **ENLARGED KITCHEN PLANS** DRAWING NO:

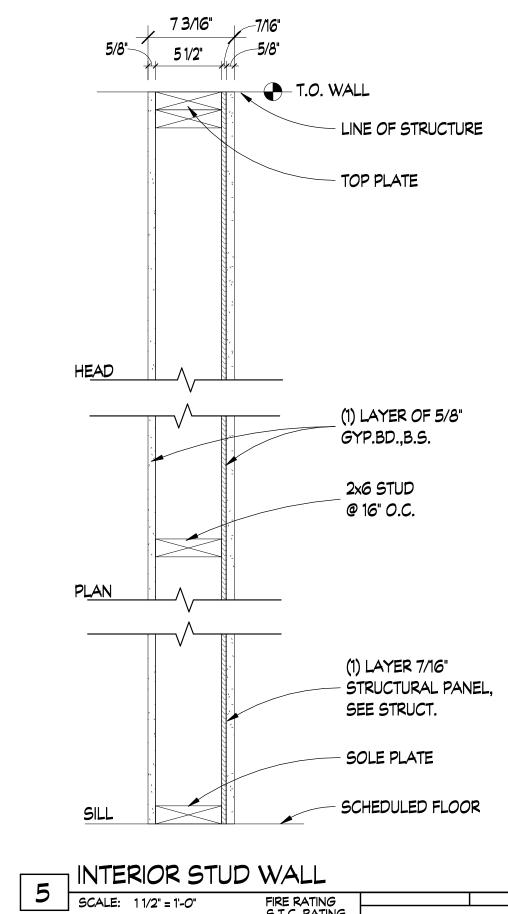
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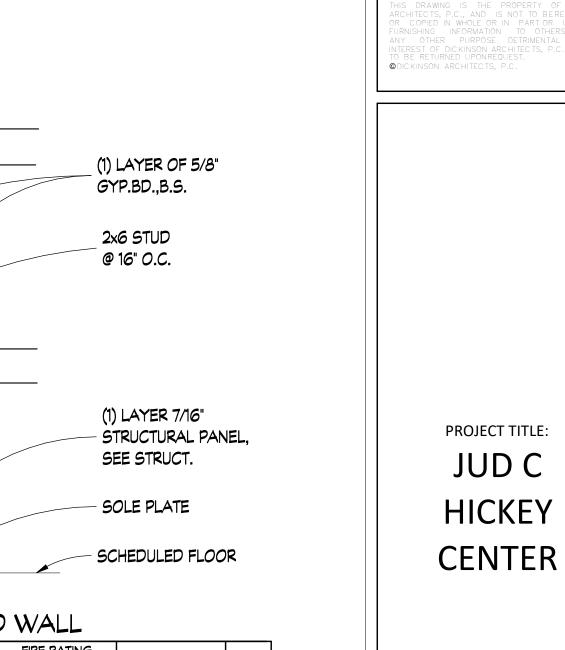




NOTE: SEE LIFE SAFETY SHEET FOR RATED WALL LOCATIONS. IF NOT INDICATED AS RATED ON LIFE SAFETY SHEET, FIRE RATING

IS NOT REQUIRED AT THAT LOCATION.





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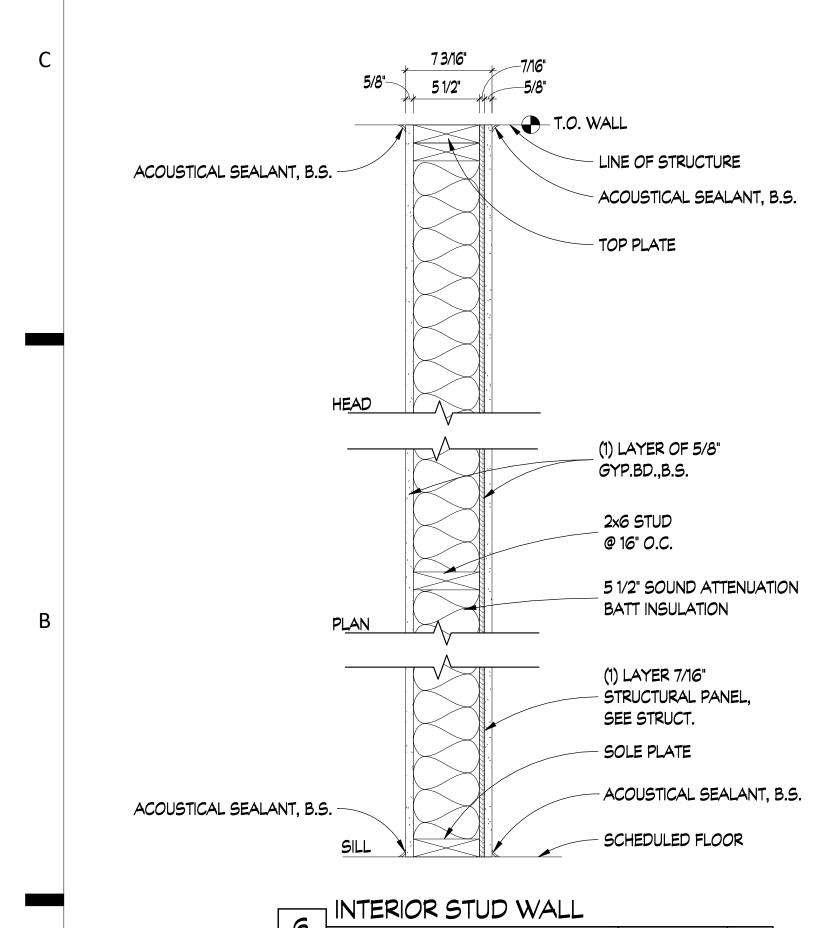
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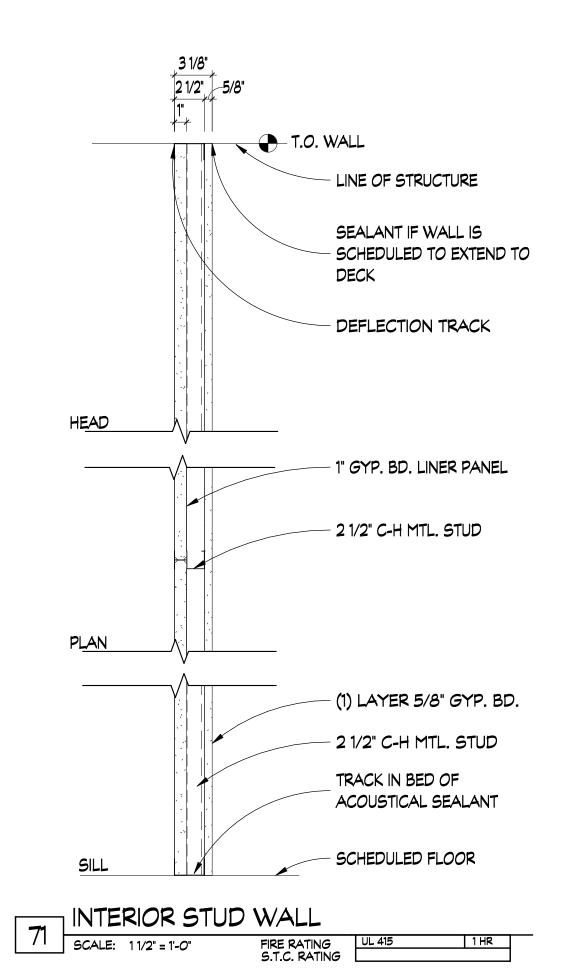
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NOTE: SEE LIFE SAFETY SHEET FOR RATED WALL LOCATIONS. IF

NOT INDICATED AS RATED ON LIFE SAFETY SHEET, FIRE RATING

IS NOT REQUIRED AT THAT LOCATION.





- 1. AT WALLS WHERE TILE IS USE AS THE FINISH MATERIAL, WATER RESISTANT GYP. BD. SHALL BE USED AS THE BASE LAYER UNLESS OTHERWISE NOTED. ALL WALLS TO RECEIVE CERAMIC TILE SHALL HAVE STUDS SPACED AT A MAXIMUM OF 16" O.C.
- 2. PROVIDE RATED WALLS ACCORDING TO THE REQUIREMENTS OF THE RESPECTIVE
- TEST NUMBER INDICATED. 3. APPLY SEALANT TO WALLS TO MEET THE INDICATED STC RATING.

EXTEND TO STRUCTURE.

- 4. WALL HEIGHT INDICATED "TO STRUCTURE" SHALL BE CARRIED TO UNDERSIDE OF
- FLOOR/ROOF ASSEMBLY AND SEALED AT TOP.
- 5. WHERE NON RATED WALLS DO NOT EXTEND TO STRUCTURE, EXTEND STUDS TO
- STRUCTURE AND BRACE WALLS TO DECK ABOVE @ 48" O.C.
- 6. ALL MECHANICAL ROOM WALLS TO BE 60 STC.
- 7. INTERIOR FACE OF EXTERIOR WALLS SHALL RECEIVE 5/8" MOLD/MOISTURE
- RESISTANT GYP. BOARD. 8. COORDINATE WITH REFLECTED CEILING PLAN FOR PARTITIONS SCHEDULED TO

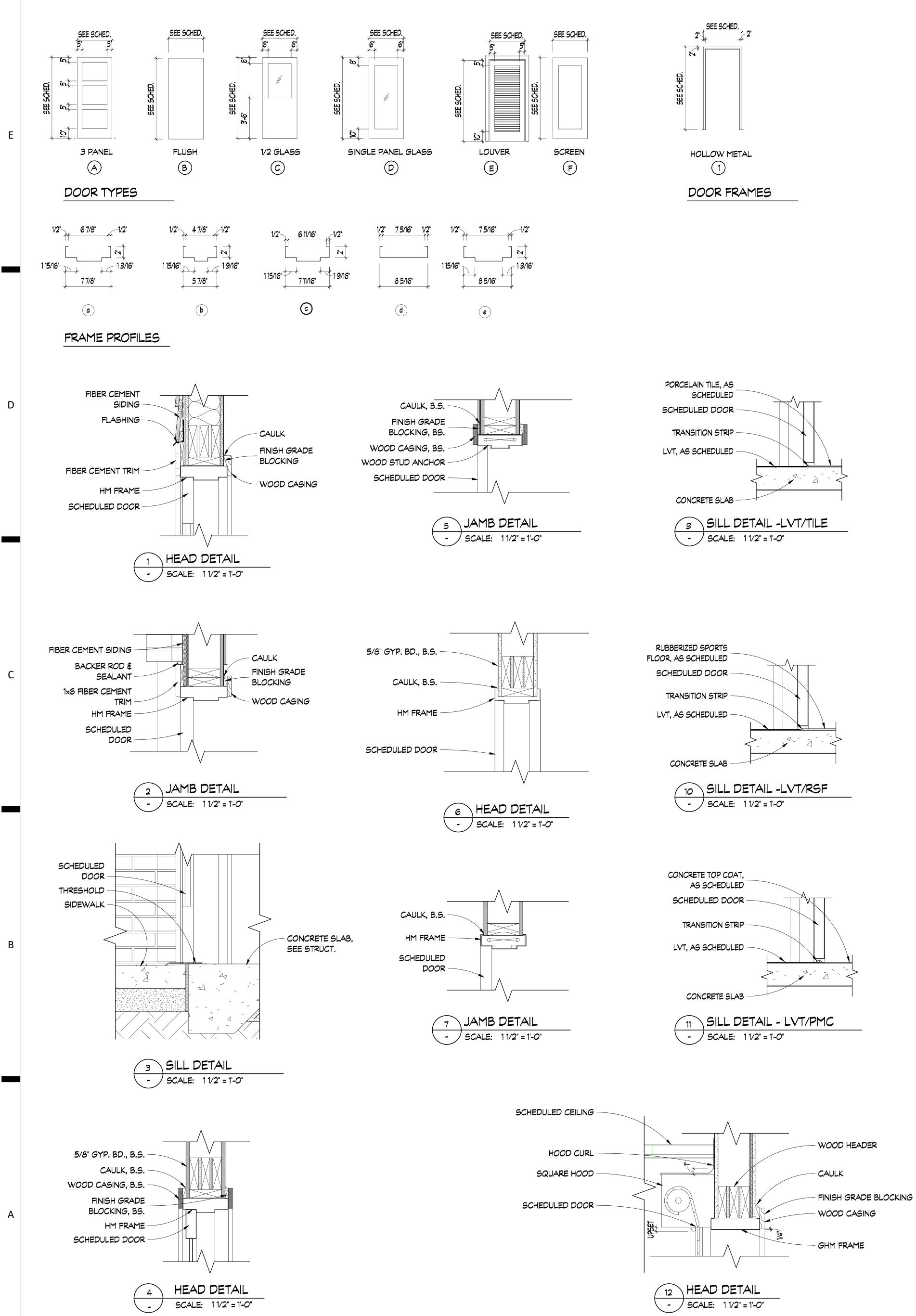
SCALE: 1-1/2" = 1'-0"

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DA PROJECT NUMBER & NAME: DRAWING TITLE:

WALL TYPES



	T							DOOR	SCHEDULE				1		
		DOOR SIZE (WXH)		DO			DOOR FRAME				DETAILS			1 10004 5 1000	
OR # ST FLC	WIDTH	HEIGHT	PAIR	TYPE	MAT.	TYPE	MAT.	PR	GLAZING	HEAD	JAMB	SILL	F.R.	HDWR	REMARKS
101 101.1	3'-0" 3'-0"	8'-0" 7-0"	*	D D	AL AL	-	AL AL	-	1G-2 G-1						1,4 1,4,5
104	3'-0"	7'-0"		A	WD	1	НМ	а		4	5	9			2
105 107	3'-0" 3'-0"	7'-0"		A	WD WD	1	HM HM	a a		4	5	9			2 2
108	3'-0"	7-0"		A	WD	1	HM	а		4	5	9			2
109 09.1	3'-0" 3'-0"	7'-0" 7'-0"		A	WD WD	1	HM HM	a a		4	5	9			4
110	3'-0"	7'-0"		A	WD	1	HM	а		4	5	-			,
110.1 111	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1	HM HM	e a		4 SIM 4	5 SIM 5	9			4
112	3'-0"	7'-0"	*	A	WD	1	HM	а		4	5	-	45 MIN		0.4.674181.60407
113 113.1	3'-O" 3'-O"	7'-0" 7'-0"	*	D D	WD WD	1	HM HM	e e	<i>G-</i> 1 <i>G-</i> 1	4	5	10			2, 4, STAIN GRADE 2, 4, 5 STAIN GRADE
113.2	3'-0"	7-0"	*	C	GHM	1	GHM	С	IG-3	1 SIM	2 SIM	3 SIM			4,5
115 116	3'-0" 3'-0"	7'-0" 7'-0"		A	WD WD	1	HM HM	e e		4	5	-			2, 4
117	3'-0"	7-0"		A	WD	1	HM	а		4	5	-			
117.1 118	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1	HM HM	a a		4	5	9			2
118.1	3'-0"	7-0"		A	WD	1	HM	a		4	5	9			2
18.2 18.3	3'-0" 2'-6"	7'-0"		E	WD WD	1	HM HM	<u></u> ь		4	5	-			
18.4	2'-6"	7'-0"		E	WD	1	НМ	Ь		4	5	-			
118.5 119	2'-6" 3'-0"	7-0" 7-0"		E A	WD WD	1 1	HM HM	b a		4	5	9			2
119.1	3'-0"	7'-0"		Α	WD	1	НМ	а		4	5	9			2
19.2 19.3	3'-0" 2'-6"	7-0" 7-0"		E	WD WD	1	HM HM	<u></u> ь		4	5	-			
122	3'-0"	7'-0"		A	WD	1	НМ	а		4	5	-			
123 123.1	3'-0" 3'-0"	7-0" 7-0"	*	A C	WD GHM	1	HM GHM	a c	IG-2	4 1 SIM	5 2 SIM	3 SIM			<u>4</u> 4
124	3'-0"	7'-0"	*	A	WD	1	НМ	а		4	5	-			
125 126	3'-0" 5'-0"	7-0" 7-0"		A -	WD -	1 1	HM HM	a d		4 4 SIM	5 5 SIM	-			CASED OPENING
26.1	2'-6"	7'-0"		В	НМ	1	НМ	Ь		4 SIM	5 SIM	-	-		3
26.2 127	2'-6" 3'-0"	7'-0"	*	В	HM GHM	1	HM GHM	<u>ь</u>	IG-3	4 SIM 1 SIM	5 SIM 2 SIM	3 SIM	-		3 4,5
127.1	3'-0"	7'-0"	*	С	GHM	1	GHM	C	IG-3	1 SIM	2 SIM	3 SIM			4,5
27.2 27.3	3'-0" 3'-0"	7-0" 7-0"		F	WD WD	-	WD WD	-	S S				-		SCREEN DOOR SCREEN DOOR
128	3'-0"	7'-0"	*	В	GHM	1	GHM	а		4 SIM	5 SIM	11			3, 4
28.1 28.2	3'-O" 3'-O"	7-0" 7-0"	*	В	GHM GHM	1 1	GHM GHM	e	<i>G-</i> 1	6 4 SIM	7 5 SIM	- 11			3, 4
28.3	6'-11"	4'-0"		-	55	1	GHM	d		12	13	14	-		3, SERIES 651 COUNTER DOOR
129 29.1	3'-0" 3'-0"	7-0" 7-0"	*	C	GHM GHM	1	GHM GHM	a c	<i>G-</i> 1	6 1 SIM	7 2 SIM	3 SIM			4
130	3'-0"	7'-0"		В	GHM	1	GHM	a		6	7	-			,
131 132	3'-0" 3'-0"	7-0" 7-0"	*	В	GHM HM	1	GHM HM	е е	<i>G-</i> 1	6 4 SIM	7 5 SIM	- 15			3,4
132.1	8'-0"	7'-0"			-	-	-	-	IG-2	1 SIM	2 SIM	3 SIM			GARAGE DOOR
133 133.1	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1	HM HM	a a		4	5	-			
134	3'-0"	7'-0"	*	С	НМ	1	НМ	а	<i>G</i> -1	4	5	-			4,5
135.1 136	3'-0" 3'-0"	7-0" 7-0"	*	В	GHM GHM	1	GHM GHM	c	IG-2	1 SIM 1 SIM	2 SIM 2 SIM	3 SIM 3 SIM			1
36.1	3'-0"	7'-0"	*	D	AL	-	AL	-	IG-2						1
36.2 36.3	3'-0" 3'-0"	7-0" 7-0"	*	D	AL AL	-	AL AL	-	IG-2 IG-2						<u>1</u> 1
36.4	3'-0"	7'-0"	*	D	AL	-	AL	-	IG-2						1
36.5 137	3'-0" 3'-0"	7'-0"	*	D	AL WD	1	AL HM	<u>-</u> е	IG-2	4	5	9			<u> </u>
138	3'-0"	7'-0"		Α	WD	1	НМ	е		4	5	9			2
13 <i>9</i> 139.1	3'-0" 3'-0"	7-0" 7-0"	*	D	GHM WD	1 1	GHM HM	c e	IG-2	1 SIM 4	2 SIM 5	3 SIM -			<u>4</u> 4
39.2	3'-0"	7'-0"	*	D	WD	1	НМ	е	<i>G</i> -1	4	5	-			4, STAIN GRADE
140 40.1	3'-0" 3'-0"	7'-0"		C	HM WD	1 1	HM HM	e b	<i>G-</i> 1	4 4 SIM	5 5 SIM	-			3
141	3'-0"	7'-0"		A	WD	1	НМ	a		4	5	17			2
142 143	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1 1	HM HM	a e		4	5	17			2
144	3'-0"	7'-0"		A	WD	1	НМ	е		4	5	-			
145 146	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1 1	HM HM	a e		4	5	16			4
147	3'-0"	7'-0"		Α	WD	1	НМ	е		4	5	-			
148 149	3'-0" 3'-0"	7-0" 7-0"		A	WD WD	1	HM HM	e e		4	5	16 16			
150	3'-0"	7'-0"		A	WD	1	НМ	a		4	5	-			
151 152	3'-0" 3'-0"	7'-0" 7'-0"		A	WD WD	1	HM HM	a		4	5 5	16			
153	3'-O"	7-0"		A	WD	1	HM	a		4	5	-			
154	3'-0"	7'-0"		Α	WD	1	НМ	а		4	5	-			

GENERAL DOOR NOTES

- 1. ALL STAIRWELL DOORS SHALL HAVE TEMPERATURE RISE RATE OF 450 DEG. F.
- 2. ALL FIRE-RATED DOORS MUST HAVE FIRE-RATED FRAMES, HARDWARE, CLOSURES AND OTHER RATED ACCESSORIES INCLUDING GLAZING.
- 3. ALL TOILET DOORS TO RECEIVE SOUND SEALS UNLESS NOTED OTHERWISE.
- 4. ALL GLAZING TO BE TEMPERED OR FIRE-RATED SAFETY GLAZING NO WIRE
- GLAZING.
- 5. FILL ALL MASONRY FRAMES WITH GROUT UNLESS NOTED OTHERWISE.
- PROVIDE EXTERIOR THRESHOLD AND WEATHER-STRIPPING AT ALL EXTERIOR
- PROVIDE STRUCTURAL STEEL SUPPORT AT ALL LEAD LINED DOOR OPENINGS

AMBIENT AT THE END OF MINUTES OF STANDARD FIRE TEST EXPOSURE.

- WHICH ARE 6'-O" OR GREATER. FIRE DOOR ASSEMBLIES IN EXIT ENCLOSURES AND EXIT PASSAGEWAYS SHALL HAVE A MAXIMUM TRANSMITTED TEMPERATURE END POINT OF NOT MORE THAN 450 DEG. F. ABOVE
- FIRE-PROTECTION-RATED GLAZING IN EXCESS OF 100 SQUARE INCHES SHALL BE TEST IN ACCORDANCEWITH NFPA 252 AS COMPONENTS OF THE DOOR ASSEMBLIES AND NOT AS GLASS LIGHTS, AND SHALL HAVE A MAXIMUM TRANSMITTED TEMPERATURE RISE OF 450 DEG. F.

DOOR & FRAME MATERIALS

- WOOD ALUMINUM
- GALVANIZED HOLLOW METAL STAINLESS STEEL
- GLAZING TYPES
- IG-1 INSULATED GLASS UNIT
- IG-2 INSULATED GLASS UNIT TEMPERED
- IG-3 INSULATED TEMPERED GLASS UNIT -
- FROSTED G-1 MONOLITHIC SAFETY GLAZING
- G-2 MONOLITHIC GLAZING S SCREEN

<u>REMARKS</u>

- 1. STOREFRONT, SEE WINDOW DETAILS FOR
- FRAME INFO & H/J/S DETAILS 2. SOUND SEALS
- 3. TRIM ON ONE SIDE OF DOOR ONLY
- 4. ACCESS CONTROL/ELECTRIFIED HARDWARE. COORD. W/ ELECT.
- 5. PRIVACY FILM ON DOOR GLAZING. SEE INTERIORS.

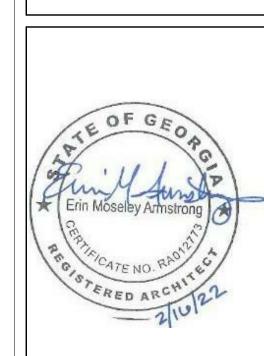
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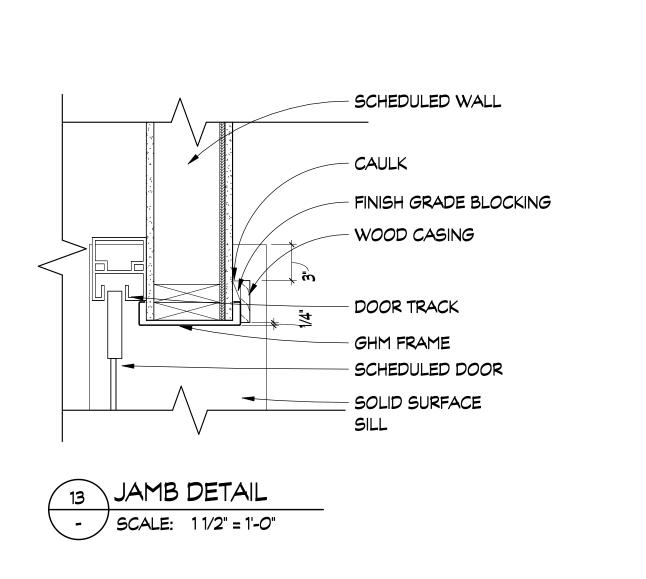


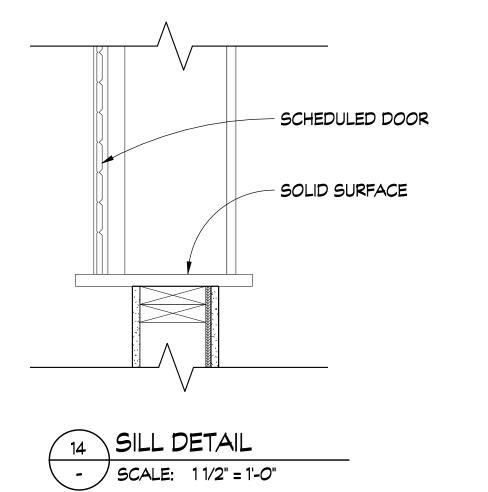
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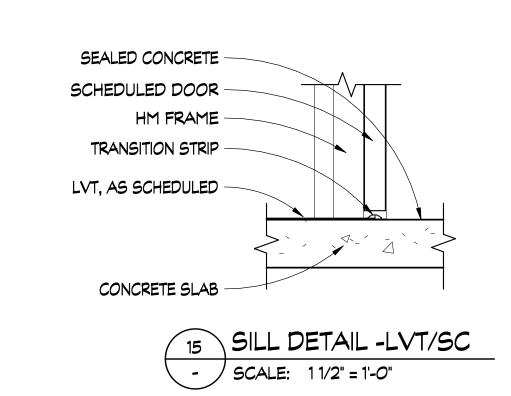
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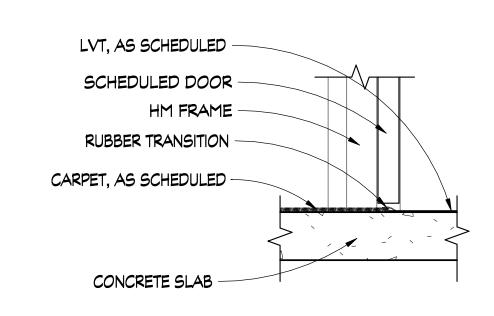
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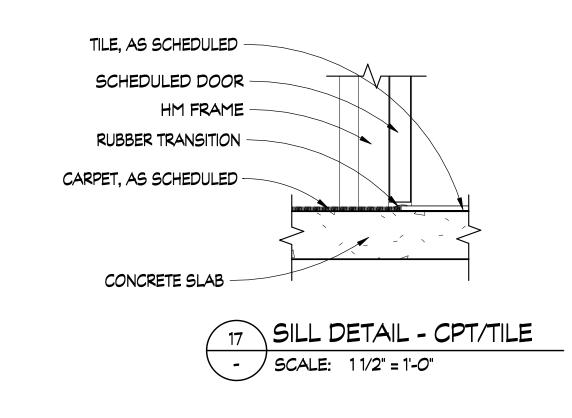
















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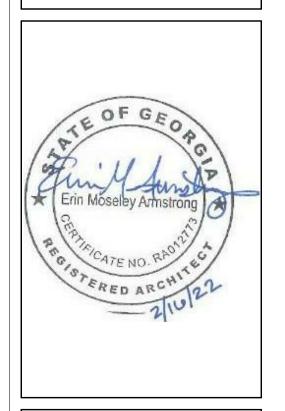
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DA PROJECT NUMBER & NAME: 1893

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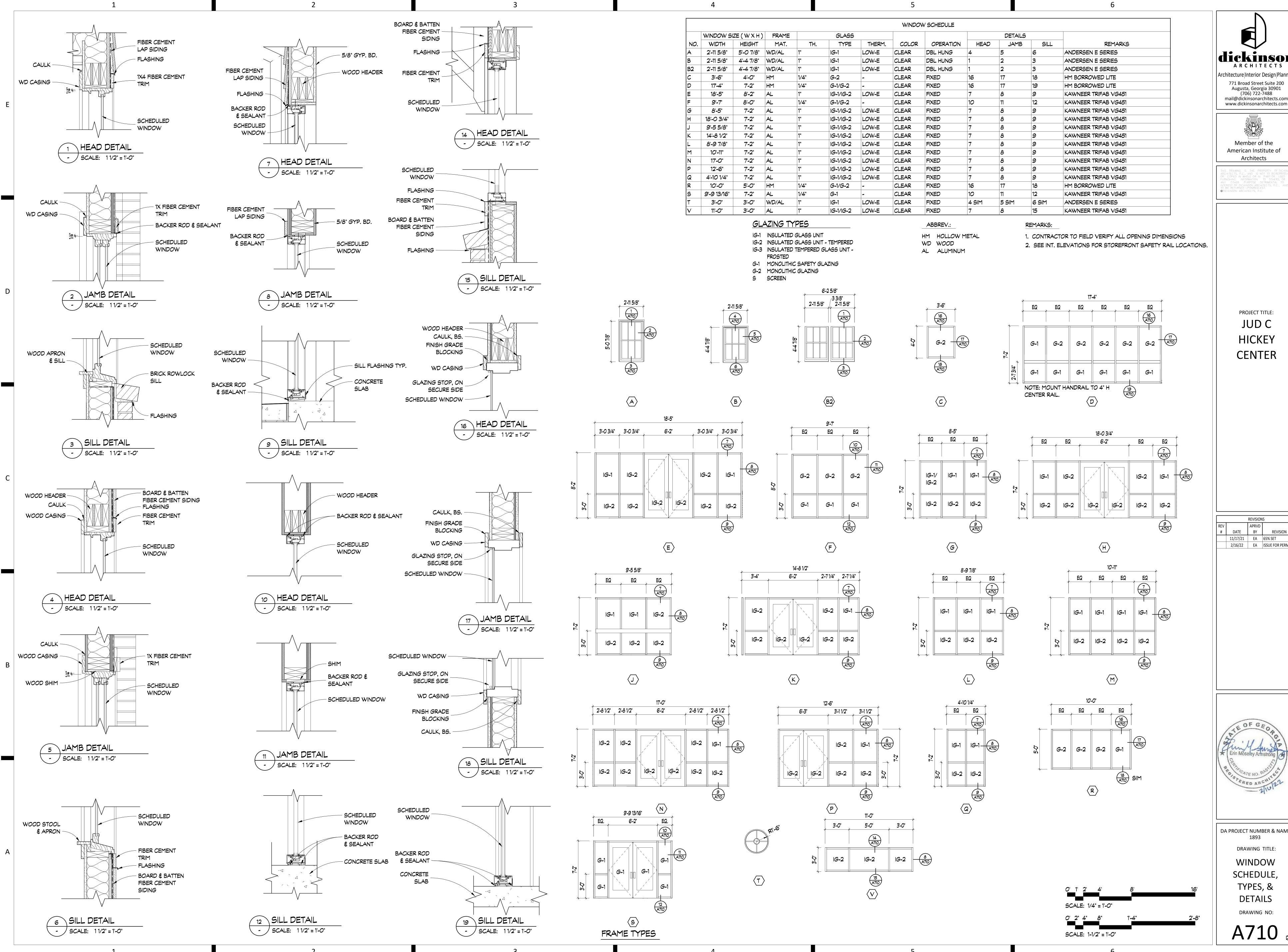
DOOR

DETAILS

DRAWING NO:

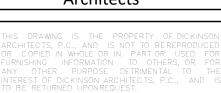
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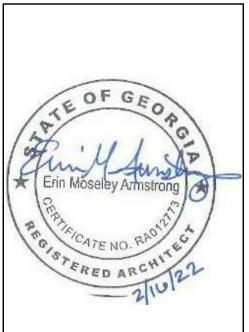
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PROJECT TITLE: JUD C HICKEY **CENTER**

APRVD DATE BY REVISION 11/17/21 EA 65% SET 2/16/22 EA ISSUE FOR PERMIT



DA PROJECT NUMBER & NAME: DRAWING TITLE: **WINDOW** SCHEDULE, TYPES, & **DETAILS** DRAWING NO: A710

	PNT-1	WALL PAINT - FIELD	RB-1	MANUFACTURER: JOHNSONITE	HR-1	MANUFACTURER: INPRO		PRODUCT NAME: BAR PULL SIZE: 4" CENTER
		MANUF.: SHERWIN WILLIAMS	ND-I	PROFILE: PERCEPTIONS RECESS TOE	ПК-1	SERIES: 900 W/ STAINLESS STEEL END CAPS AND		FINISH: SATIN NICKEL
		COLOR: SW 7006 EXTRA WHITE		HEIGHT: 4.25"		BRACKETS		ITEM #: 86360
		TOP COAT: PROMAR 200 ZERO VOC FINISH: EGGSHELL		COLOR: 80 FAWN NOTES: ROLLED GOODS		COLOR: 0278 SAND DUNE	HDW-3	MANUFACTURER: EMTEK
		LOCATIONS: SEE INT. ELEVATIONS			CERAMIC	TILE_		PRODUCT NAME: BAR PULL
	PNT-2	WALL PAINT - FIELD	POLYURE	ETHANE MODIFIED CEMENT	CT-1	WALL TILE		SIZE: 4" CENTER FINISH: MATTE BLACK
		MANUF.: SHERWIN WILLIAMS	PMC-1	MANUFACTURER: SHERWIN WILLIAMS	G1- 1	MANUFACTURER: TRINITY TILE		ITEM #: 86360
		COLOR: SW 7043 WORLDLY GRAY		PRODUCT: FASTOP S		SERIES: DAHLIA		
		TOP COAT: PROMAR 200 ZERO VOC FINISH: EGGSHELL		COLOR: LIGHT GRAY TOPCOAT: 3746		SIZE: 3" X 10" COLOR: CLOUD	HDW-4	MANUFACTURER: REJUVENATION PRODUCT NAME: ARCHED SHELF BRACKETS
		LOCATIONS: SEE INT. ELEVATIONS		NOTES: INTEGRAL 4" FLASH COVE		FINISH: GLOSS		SIZE: 10" CENTER
	חוד מ	MANALL MAINIT ACCENIT	nunnen.			GROUT FOR CT-1		FINISH: POLISHED NICKEL
		WALL PAINT - ACCENT MANUF.: BENJAMIN MOORE	KURREK :	SPORTS FLOOR		MANUFACTURER: MAPEI PRODUCT: KERAPOXY CQ		ITEM #: C2958 NOTES: RECEPTION ADA COUNTER BRACKETS
		COLOR: HC-154 HALE NAVY	RSF-1	MANUFACTURER: ECORE		COLOR: 93 WARM GRAY		
		TOP COAT: ULTRA SPEC 500 INTERIOR FINISH: SATIN		PRODUCT: FOREST RX COLOR: 9822 TOASTED OAK		INSTALLATION: VERTICAL RUNNING BOND	<u>SPECIAL</u>	<u>TY FINISH</u>
		LOCATIONS: SEE INT. ELEVATIONS		COLOR: 9022 TOASTED OAK	PORCELA	NN TILE	SF-1	WALL MURAL @ CORRIDOR
			RSF-2	MANUFACTURER: ECORE				PAINTED MURAL BY LOCAL ARTIST
		WALL PAINT - ACCENT MANUF.: SHERWIN WILLIAMS		PRODUCT: FOREST RX COLOR: 9825 SUN BLEACHED OAK	PT-1	FLOOR TILE MANUFACTURER: GARDEN STATE TILE		ARTIST AND DESIGNER TO WORK TOGETHER ON FINAL DESIGN
		COLOR: SW 6269 BEGUILING MAUVE				PRODUCT: ARDOSIA		CONTRACTOR NOTES: PRIME WALL ONLY; ARTWORK
		TOP COAT: PROMAR 200 ZERO VOC	<u>FIBERGLA</u>	ASS REINFORCED PLASTIC (FRP) PANELS		SIZE: 12" X 24"		PROVIDED BY OWNER
		FINISH: SATIN LOCATION: SEE INT. ELEVATIONS	FRP-1	MANUFACTURER: CRANE COMPOSITES		TEXTURE: MATTE COLOR: OXFORD WHITE	SF-2	WALL MURAL @ PAC
			, , , ,	PRODUCTI SEQUENTIA .075"			O . D	VINYL WALL MURAL OR VINYL GRAPHICS APPLIED TO
		WALL PAINT - ACCENT MANUF.: SHERWIN WILLIAMS		CLASS C BEADED COLOR: WHITE		<u>GROUT FOR PT-1</u> MANUFACTURER: MAPEI		WALL. ARTIST/DESIGNER TO WORK TOGETHER ON FINAL DESIGN.
		COLOR: SW 6219 RAIN		NOTES: APPLY TO 2 WALLS SURROUNDING MOP SINKS		PRODUCT: KERAPOXY CQ		CONTRACTOR NOTES: PRIME & PAINT WALL PNT-1;
		TOP COAT: PROMAR 200 ZERO VOC				COLOR: 93 WARM GRAY		ARTWORK PROVIDED BY OWNER
		FINISH: EGGSHELL LOCATION: SEE INT. ELEVATIONS	WALL PR	ROTECTION		INSTALLATION: HORIZONTAL RUNNING BOND	SF-3	SPECIAL WALL FINISH
			WP-1	MANUFACTURER: ALTRO	PT-2	FLOOR TILE	J1 - J	PLYWOOD
		MILLWORK PAINT		PRODUCT: PURAGUARD		MANUFACTURER: GARDEN STATE TILE	~ .	
		MANUF.: SHERWIN WILLIAMS COLOR: SW 7006 EXTRA WHITE		COLOR: WHITE ITEM #: W139		PRODUCT: ARDOSIA SIZE: 2" X 2" MOSAIC	SF-4	PEGBOARD @ WORKSHOP MANUF.: DIAMOND LIFE GEAR
		TOP COAT: PROMAR 200 ZERO VOC		SIZE: 4' X 9' PANELS		TEXTURE: MATTE		PRODUCT: PEGBOARD HB
		FINISH: SEMI-GLOSS		MATERIAL: EXTRUDED SEMI-RIGID PVCu PANEL		COLOR: OXFORD WHITE		SIZE: 4' X 8' PANELS FINIGH: PAINTARI E FINIGH PNT-1
		LOCATION: SEE MILLWORK DETAILS & ELEVATIONS		THICKNESS: .08" INSTALLATION: WELDED		GROUT FOR PT-2		FINISH: PAINTABLE FINISH, PNT-1 NOTES: INSTALL PER MANUFACTURER'S INSTRUCTIONS.
		MILLWORK PAINT				MANUFACTURER: MAPEI		PROVIDE BLOCKING AS REQUIRED BY MANUF.
		MANUF.: BENJAMIN MOORE COLOR: HC-145 VAN COURTLAND BLUE	\/ \ \ \\\	ALLCOVERING		PRODUCT: KERAPOXY CQ COLOR: 93 WARM GRAY	SF-5	SLAT WALL @ MARKETPLACE / HOME HUB
		TOP COAT: ULTRA SPEC 500 INTERIOR	VIINIL W	, <u>1000 7 01 11 10</u>		COLUMN DO MANITURNI	<i>ن-</i> ار	MANUF.: DIAMOND LIFE GEAR
		FINISH: SEMI-GLOSS	VWC-1	MANUFACTURER: MDC INTERIOR SOLUTIONS	PB-1	TILE BASE		PRODUCT: SLATWALL MX
		LOCATION: SEE MILLWORK DETAILS & ELEVATIONS		PATTERN #: MCO1296/4142 PATTERN NAME: EDEN MURAL		MANUFACTURER: GARDEN STATE TILE PRODUCT: ARDOSIA		SIZE: 4' X 8' PANELS FINISH: WHITE
	PNT-8	CEILING PAINT		WEIGHT/TYPE: TYPE II 20 OZ. VINYL		SIZE: 3" X 24"		NOTES: INSTALL PER MANUFACTURER'S INSTRUCTIONS.
		MANUF.: SHERWIN WILLIAMS		BACKING: NON-WOVEN		TEXTURE: MATTE		PROVIDE BLOCKING AS REQUIRED BY MANUF.
		COLOR: SW 7006 EXTRA WHITE TOP COAT: PROMAR 200 ZERO VOC		DIMENSIONS: 12'H X 54"W PANELS PATTERN MATCH: NON-REVERSIBLE, STRAIGHT MATCH		COLOR: OXFROD WHITE	SF-6	MIRROR @ FITNESS EQUIPMENT
		FINISH: FLAT		NOTE: TO BE INSTALLED WITH MANUFACTURERS		GROUT FOR PB-1		MANUF.: -
		LOCATION: CEILINGS ONLY		RECOMMENDED ADHESIVE		MANUFACTURER: MAPEI PRODUCT: KERAPOXY CQ		PRODUCT: MIRROR, TEMPERED HEIGHT: 7' AFF
	PNT-9	DOOR FRAME PAINT - TYPICAL	VWC-2	MANUFACTURER: MDC INTERIOR SOLUTIONS		COLOR: 93 WARM GRAY		
		MANUF.: SHERWIN WILLIAMS		PATTERN: HORIZON LINE			SF-7	WINDOW FILM
		COLOR: SW 7006 EXTRA WHITE FINISH: SEMI-GLOSS		COLOR: INFINITE BLUE ITEM #: W2HLO2/4142	ACOUST	CAL CEILING PANELS		MANUF.: 3M PRODUCT #: 7100126667
		LOCATION: DOOR FRAME		WEIGHT/TYPE: TYPE II 20 OZ. VINYL	,			PATTERN: STRAIGHT WASHI
		NOTES: ONE COAT ALKYD PRIMER, TWO COATS ALKYD		BACKING: OSNABURG	ACP-1	MANUFACTURER: USG		COLOR: WHITE
		ENAMEL. FACTORY PRIMER IS ACCEPTABLE WITH NO VISUAL RUST.		WIDTH: 54" PATTERN MATCH: RANDOM REVERSIBLE		PRODUCT: MARS CLIMAPLUS PERFORMANCE ITEM NO. : 86185		NOTES: INSTALL ON WINDOWS IN OFFICES 146, 147, 148, 149 AND ON DOORS 101.1, 113.1, 113.2, 127, 127.1, \$ 134
				NOTE: TO BE INSTALLED WITH MANUFACTURERS		SIZE: 2' X 2' X3/4"		,,,,,,,,,,,
	<u>STAIN</u>			RECOMMENDED ADHESIVE; GLASS INSTALLED ON TOP OF		NRC: .70	CURTAIN	
	ST-1	MANUF.: -		WALLCOVERING		COLOR: FLAT WHITE 050 GRID: DONN DX/DXL SUSPENSION SYSTEM	CURTAIN	<u>15</u>
		COLOR: STAIN TO MATCH WILSONART 7992 -38 PINNACLE WALNUT	VWC-3	MANUFACTURER: MDC INTERIOR SOLUTIONS		GRID COLOR: FLAT WHITE 050	CURT-1	PRIVACY CURTAIN
		SHEEN: MATTE LOCATION: RECEPTION WOOD BEAMS		PATTERN: ARTFUL PLAID COLOR: HEATHER	ACP-2	MANUFACTURER: USG		MANUF.: INPRO PRODUCT: PRIVACY CURTAIN
				ITEM #: MCO2279	~ur=2	PRODUCT: SHEETROCK BRAND LAY-IN CEILING		TRACK: FORMTRAC
	CARPET			WEIGHT/TYPE: TYPE II 20 OZ. VINYL		ITEM NO. : 3260		FABRIC TYPE: PLATINUM
	CPT-1	MANUFACTURER: TARKETT		BACKING: NON-WOVEN WIDTH: 54"		SIZE: 2' X 2' X 1/2" EDGE: SQUARE		FABRIC PATTERN: BLISSFUL FABRIC COLOR: ASTER
		STYLE: TWILL		PATTERN MATCH: NON-REVERSIBLE STRAIGHT ACROSS MATCH		COLOR: FLAT WHITE 050		MESH: 12"; SNOW
INTERIOR ABBREVIATIONS		COLOR: COTTON + IRON		NOTE: TO BE INSTALLED WITH MANUFACTURERS		GRID: DONN DX/DXL SUSPENSION SYSTEM		
		PRODUCT #: 11527 57202 SIZE: 18" X 36"		RECOMMENDED ADHESIVE		GRID COLOR: FLAT WHITE 050	CURT-2	SHOWER CURTAIN MANUF.: INPRO
ACP ACOUSTICAL CEILING PANEL BR BRICK		INSTALL PATTERN: ASHLAR	VWC-4	MANUFACTURER: MOMENTUM	ACP-3	MANUFACTURER: MBI PRODUCTS		PRODUCT: SHOWER CURTAIN
BP BRICK PAVER				PATTERN: ALEGRE COLOR: DA CAPO		PRODUCT: CLOUDLITE BAFFLES SIZE: 2' X 10' X 2"		TRACK: NANOTRAC FABRIC TYPE: SHIELD BY PANAZ
CT CERAMIC TILE CB CERAMIC BAGE	LUXURY VIN	<u>YL TILE</u>		ITEM #: A203-194		EDGE: SQUARE		FABRIC PATTERN: ABLOOM
CB CERAMIC BASE CMU CONCRETE MASONRY UNIT				WEIGHT/TYPE: TYPE II 20 OZ. VINYL		MATERIAL: PVC		FABRIC COLOR: EUCALYPTUS
CPT CARPET		MANUFACTURER: COBALT SURFACES COLLECTION: KATANGA		BACKING: OSNABURG WIDTH: 54"		COLOR: WHITE INSTALL ON HANGERS W/ GROMMETS IN	CURT-3	ROOM DIVIDER CURTAIN
CPT-W CARPET WALK OFF EP EPOXY		PRODUCT #: K12-821		PATTERN MATCH: REVERSE HANG, RANDOM MATCH		FLAP, COORD. FINAL LAYOUT WITH MECHANICAL.		MANUF.: INPRO
EXP EXPOSED		COLOR: DOE SIZE: 25CM X 1M		NOTE: TO BE INSTALLED WITH MANUFACTURERS RECOMMENDED ADHESIVE		BOTTOM OF PANELS SHOULD NOT HANG BELOW TRUSSES.		PRODUCT: ROOM DIVIDER TRACK: ARCHITECTURAL DRAPERY ROD W/ BATON
FCB FIBER CEMENT BOARD GYP GYPSUM BOARD		WEAR LAYER : 20 MIL						AND CORD DRAW
GTP GTPSUM BOARD GL GLASS		THICKNESS: 5MM	VWC-5		でしました	ON STRIP		FABRIC TYPE: DRAPERY FABRIC
GT GLASS TILE		FINISH: COBALT GUARD INSTALLTION METHOD: GLUE DOWN		PATTERN: HERRINGBONE ROW COLOR: FROST	IKANSIII	<u>ON STRIP</u>		FABRIC PATTERN: WHIMSY FABRIC COLOR: HOP
GRT GROUT HDW HARDWARE		INSTALL PATTERN: SEE FINISH PLAN		ITEM #: T2-HR-04	TS-1	TRANSITION FROM WALL TO WALL TILE		
LVT LUXURY VINYL TILE		NOTE: TO BE INSTALLED WITH MANUFACTURERS RECOMMENDED ADHESIVE		WEIGHT/TYPE: TYPE II 20 OZ. VINYL BACKING: OSNABURG		MANUFACTURER: SCHLUTER PRODUCT PROFILE: JOLLY		
LMC LINEAR METAL CEILING				WIDTH: 54"		FINISH: SATIN ANODIZED ALUMINUM		
MRGB MOISTURE RESISTANT GYPSUM BOARD MB MILLWORK BASE	SEALED CON	NCRETE		PATTERN MATCH: REVERSE, RANDOM MATCH	T 0 0	EDGE TO ANICITION FROM THE TO THE		
MV MASONRY VENEER	SC-1	MANUF.: -		NOTE: TO BE INSTALLED WITH MANUFACTURERS RECOMMENDED ADHESIVE	TS-2	EDGE TRANSITION FROM TILE TO TILE MANUFACTURER: SCHLUTER		
PMC POLYURETHANE MODIFIED CEMENT PT PORCELAIN TILE		PRODUCT: SEALED CONCRETE				PRODUCT PROFILE: QUADEC		
PB PORCELAIN BASE			QUARTZ			COLOR: SATIN ANODIZED ALUMINUM		
PLAM PLASTIC LAMINATE PC POURED CONCRETE	WOOD BASE		<u> QUARIL</u>		TS-3	TRANSITION FROM LVT TO PT/SC/PMC		
PC POURED CONCRETE PNT PAINT			QTZ-1	MANUFACTURER: WILSONART		MANUFACTURER: SCHLUTER		
RB RUBBER BASE		MANUFACTURER: GARDEN STATE LUMBER ITEM #: GSB412		COLOR: LORRAINE ITEM #: Q1012		PRODUCT PROFILE: RENO-U COLOR: SATIN ANODIZED ALUMINUM		
RSF RUBBER SPORTS FLOOR RUB RUBBER FLOOR		COLOR: PNT-6, UNLESS NOTED OTHERWISE ON INT. ELEV.		THICKNESS: 3CM				
SC SEALED CONCRETE	WB-2	MANUFACTURER: GARDEN STATE LUMBER			TS-4	TRANSITION FROM LVT TO CPT MANUFACTURER: TARKETT		
SS SOLID SURFACE		MANUFACTURER: GARDEN STATE LUMBER ITEM #: WM618	WOOD C	COUNTERTOP		PRODUCT: CD-XX		
STS STAINLESS STEEL ST STAIN		COLOR: PNT-6, UNLESS NOTED OTHERWISE ON INT. ELEV.				COLOR: 80 FAWN		
SF SPECIALTY FINISH			WCT-1	MANUFACTURER: - WOOD COUNTER	TS-5	TRANSITION FROM CPT TO PT		
TBR THIN BRICK TS TRANSITION STRIP	WOOD CROY	<u>WN</u>		COLOR: STAIN TO MATCH FORMICA 5887-58 MILLENNIUM OAK	, 5	MANUFACTURER: SCHLUTER		
VWC VINYL WALL COVERING	11/01	MANIJEACTI IDED. GADDENI GTATE I LIMBED				PRODUCT: RENO-TK		
WCT WOOD COUNTERTOP		MANUFACTURER: GARDEN STATE LUMBER ITEM #: GSC512	PLASTIC	LAMINATE		COLOR: SATIN ANODIZED ALUMINUM		
WSCT WAINSCOT PANELING WV WOOD VENEER		COLOR: SEE INT. ELEV.			CABINET	RY HARDWARE		
WB WOOD BASE			PLAM-1	MANUFACTURER: WILSONART COLOR: MANGALORE MANGO	HD_1	MANUFACTURER: EMTEK		
WC WOOD CROWN				and the company of th	** 1	· · · · · · · · · · · · · · · · · · ·		

COLOR: MANGALORE MANGO ITEM #: 7984-38

FINISH: FINE VELVET FINISH

SIZE: 4" CENTER

ITEM #: 86429

PRODUCT NAME: TRIBECA PULL

FINISH: POLISHED CHROME

RUBBE BASE

HAND RAILS

MATERIAL DESIGN BASIS

<u>PAINT</u>

WOOD CROWN

VINYL CORNER GUARDS

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HDW-2 MANUFACTURER: EMTEK

PRODUCT NAME: BAR PULL





PROJECT TITLE:

JUD C

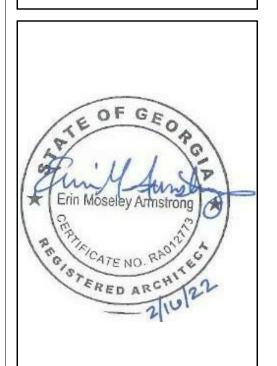
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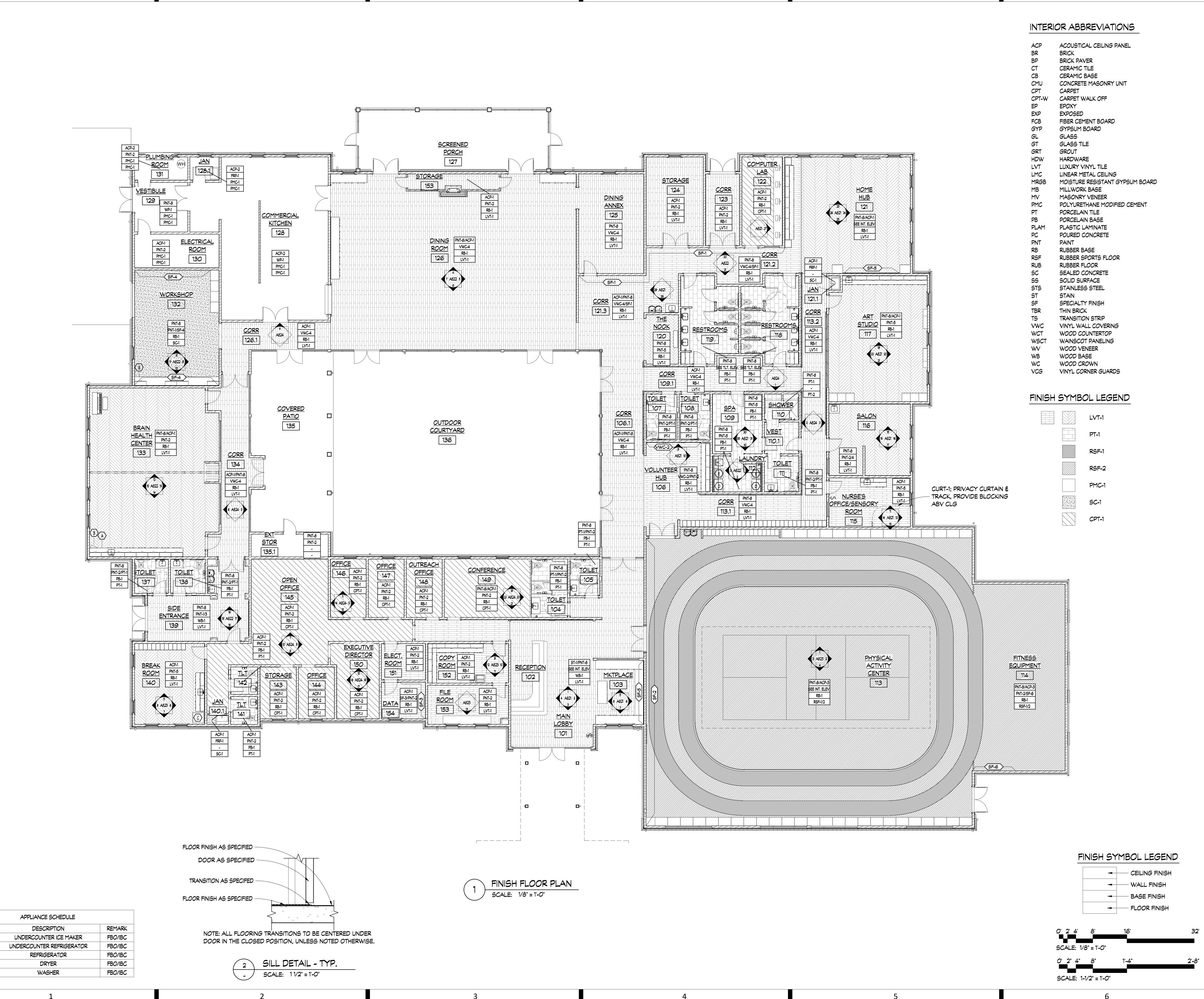
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Architects

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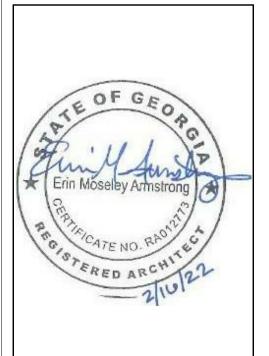
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4/16/21 EA 35% SET

11/17/21 EA 65% SET

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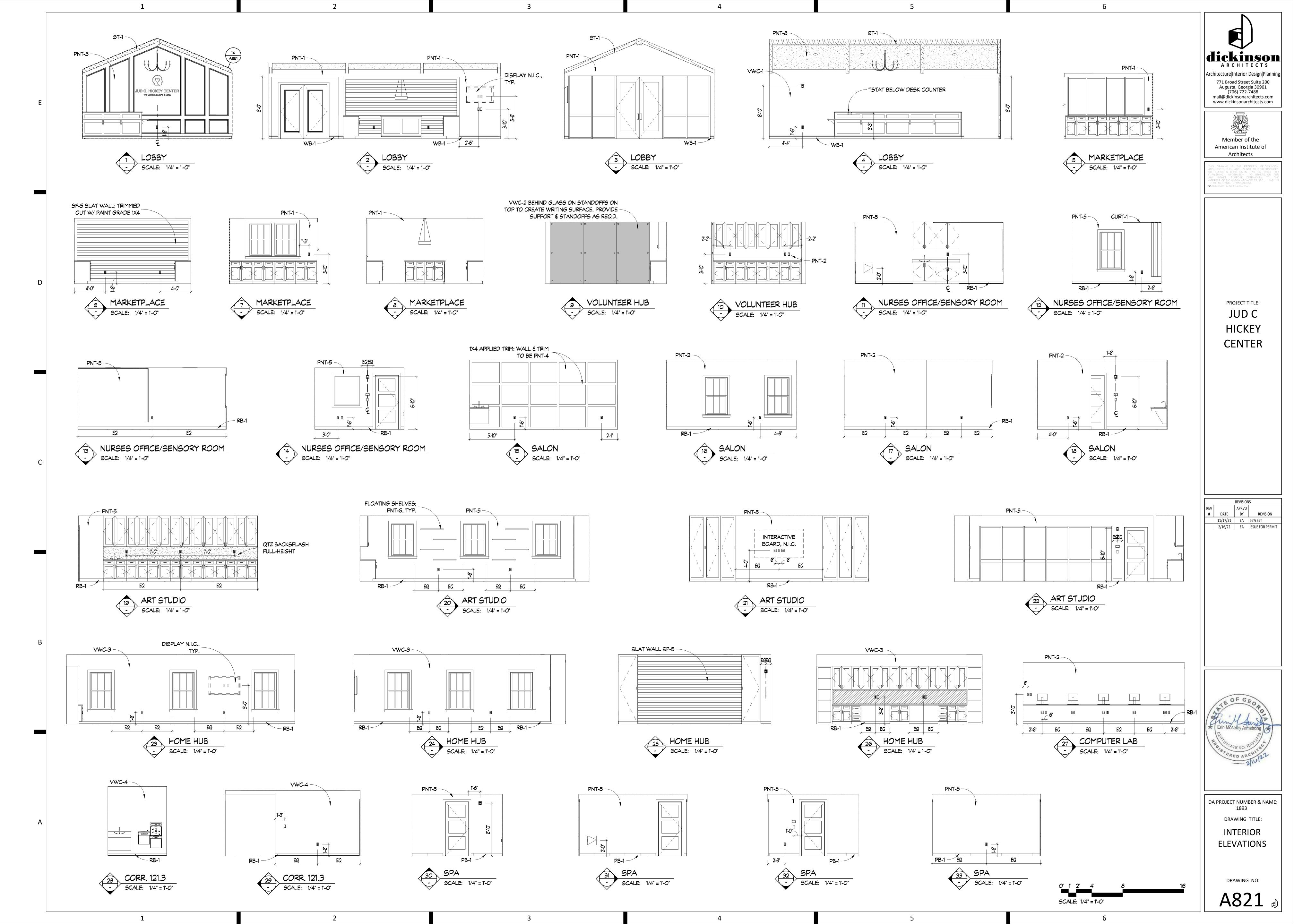
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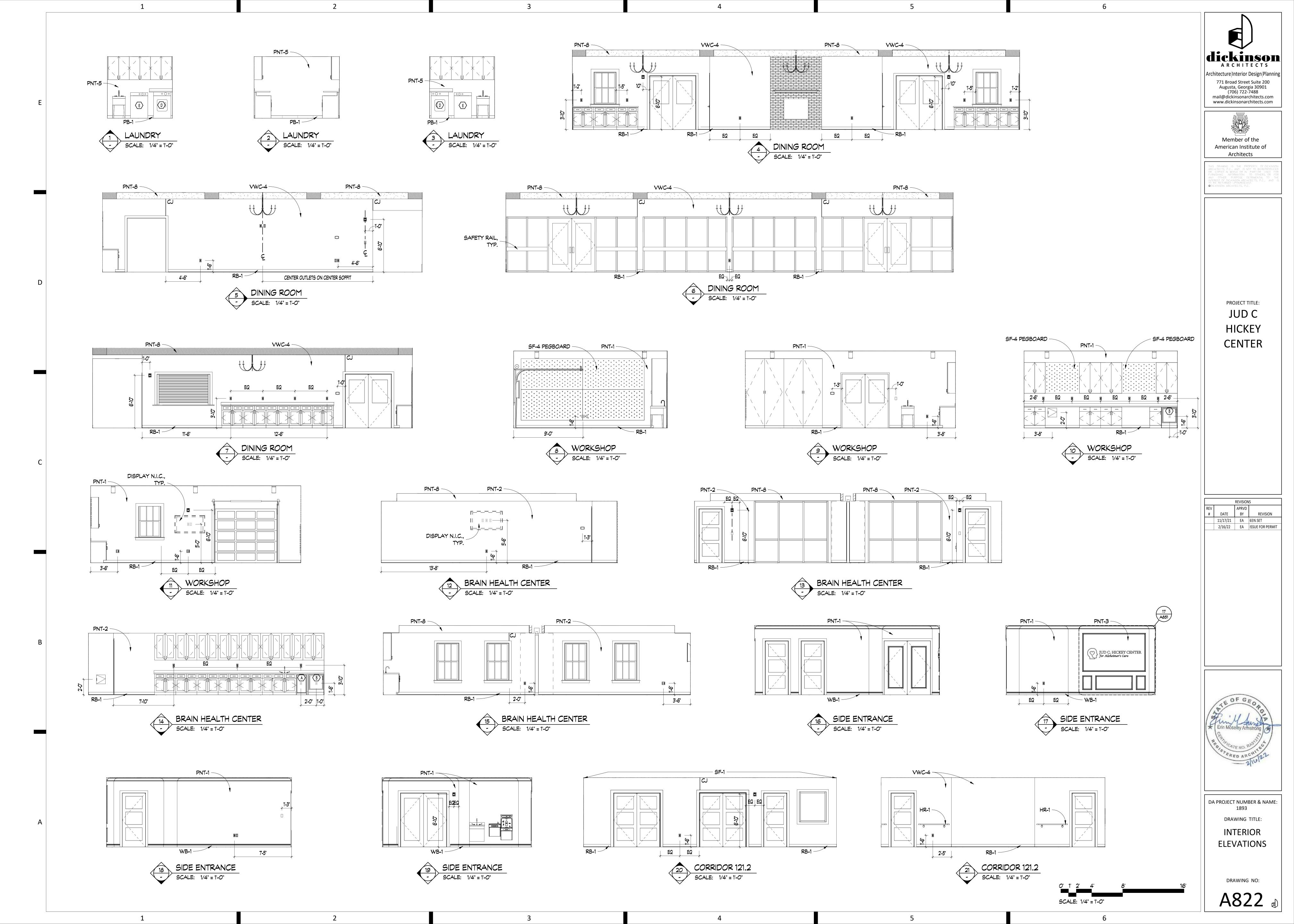
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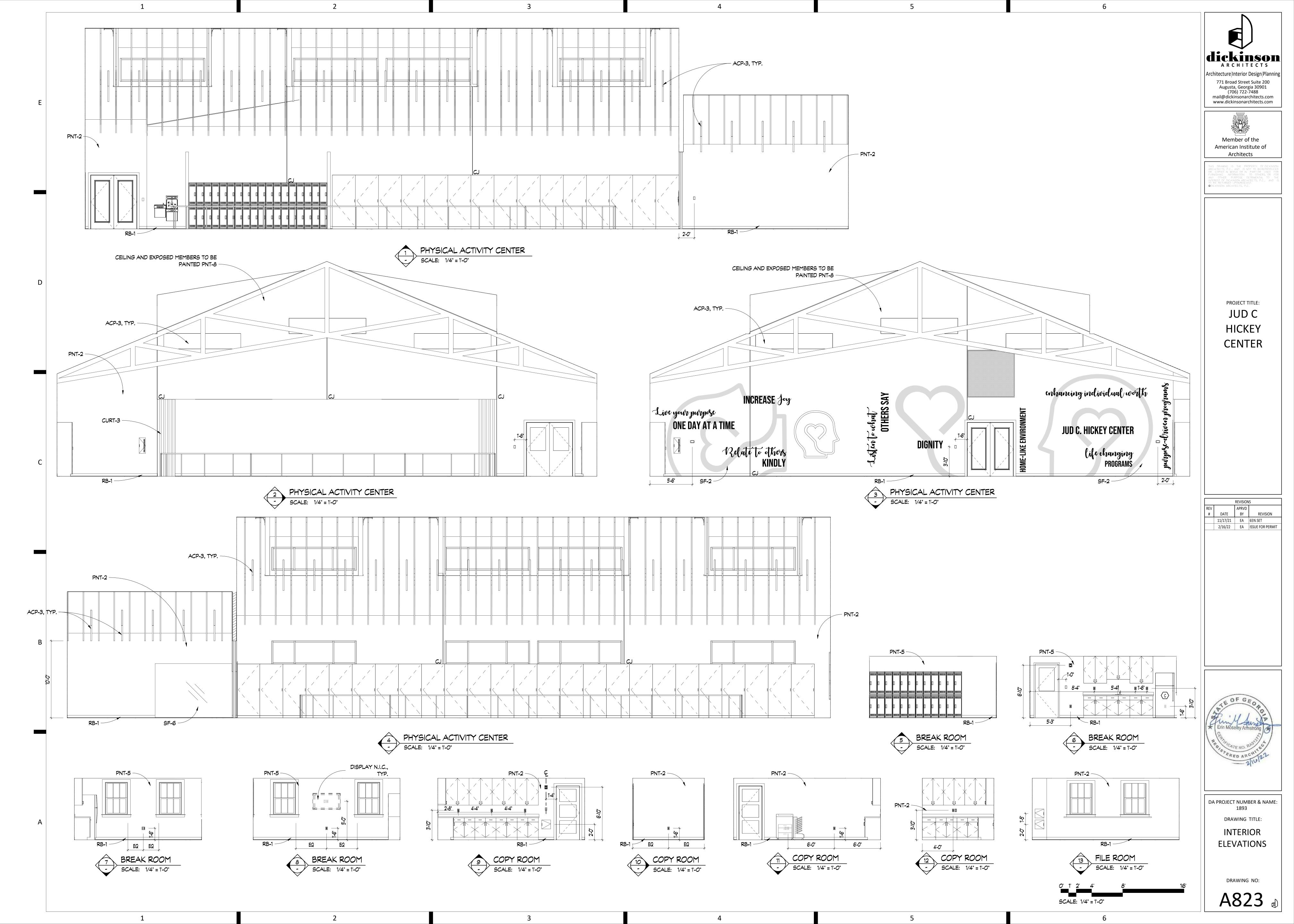
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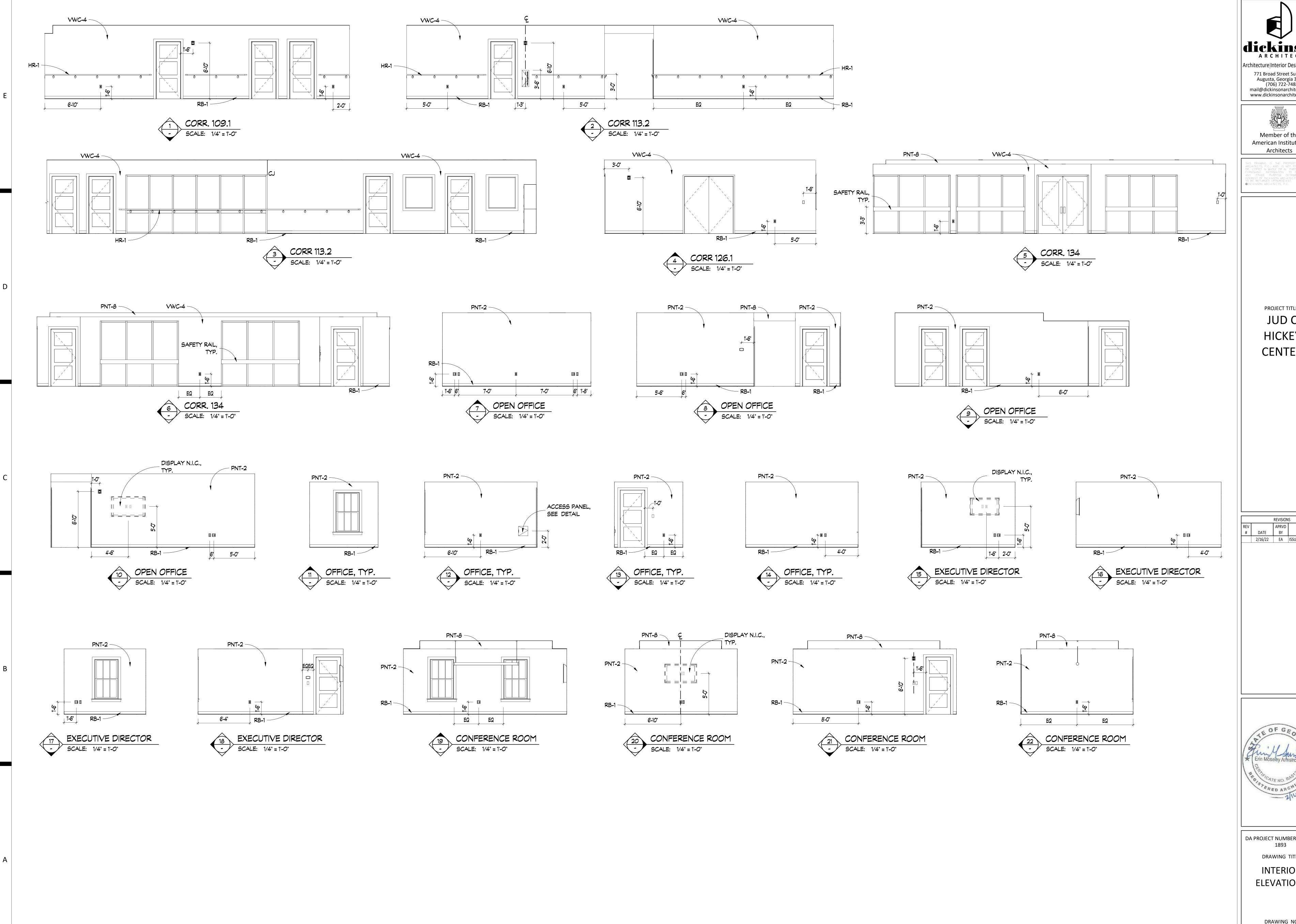
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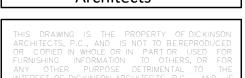






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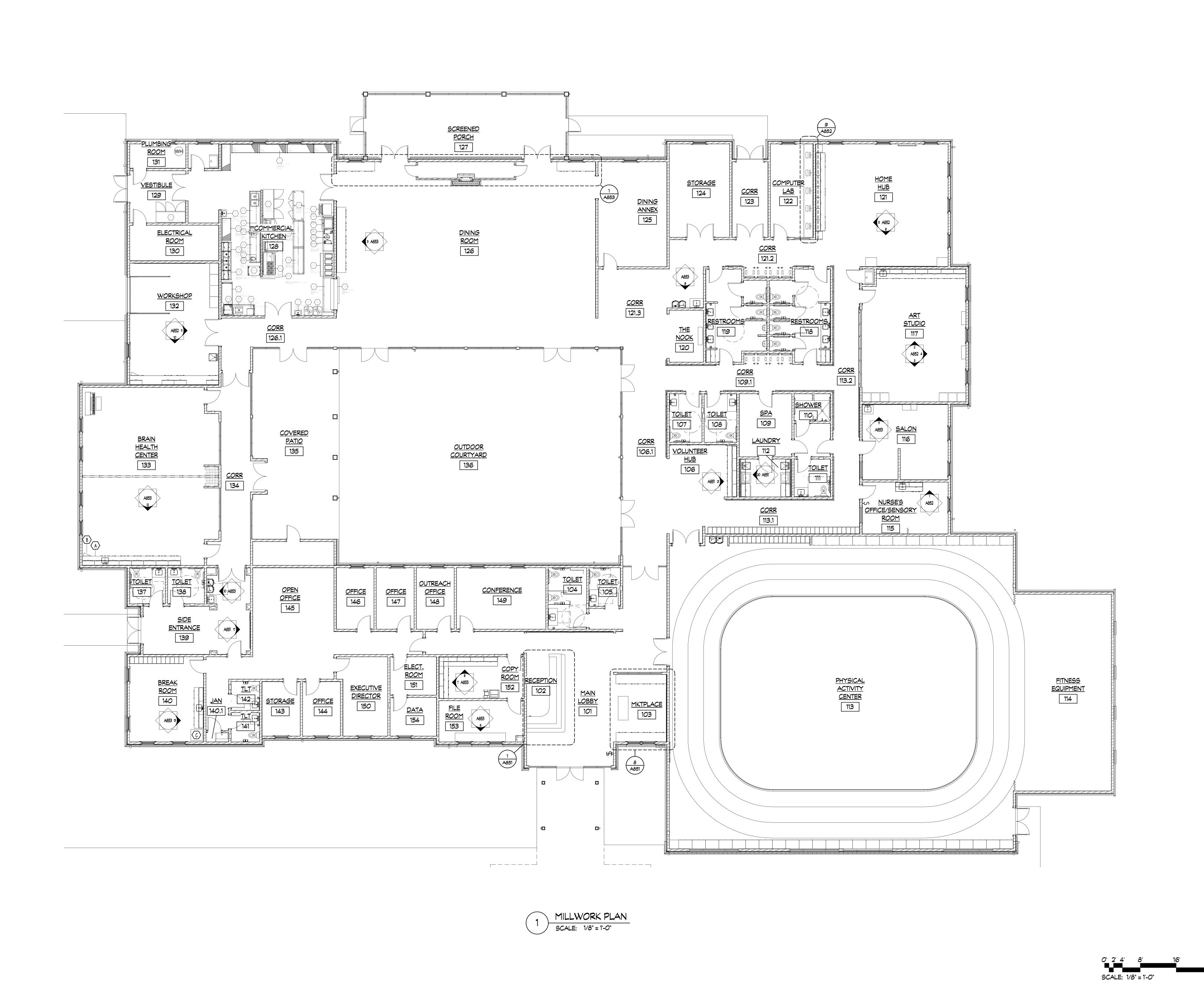
PROJECT TITLE: JUD C HICKEY CENTER

APRVD # DATE BY REVISION 2/16/22 EA ISSUE FOR PERMIT

DA PROJECT NUMBER & NAME: DRAWING TITLE: INTERIOR **ELEVATIONS**

DRAWING NO:

SCALE: 1/4" = 1'-0"



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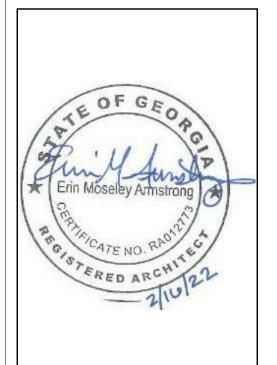




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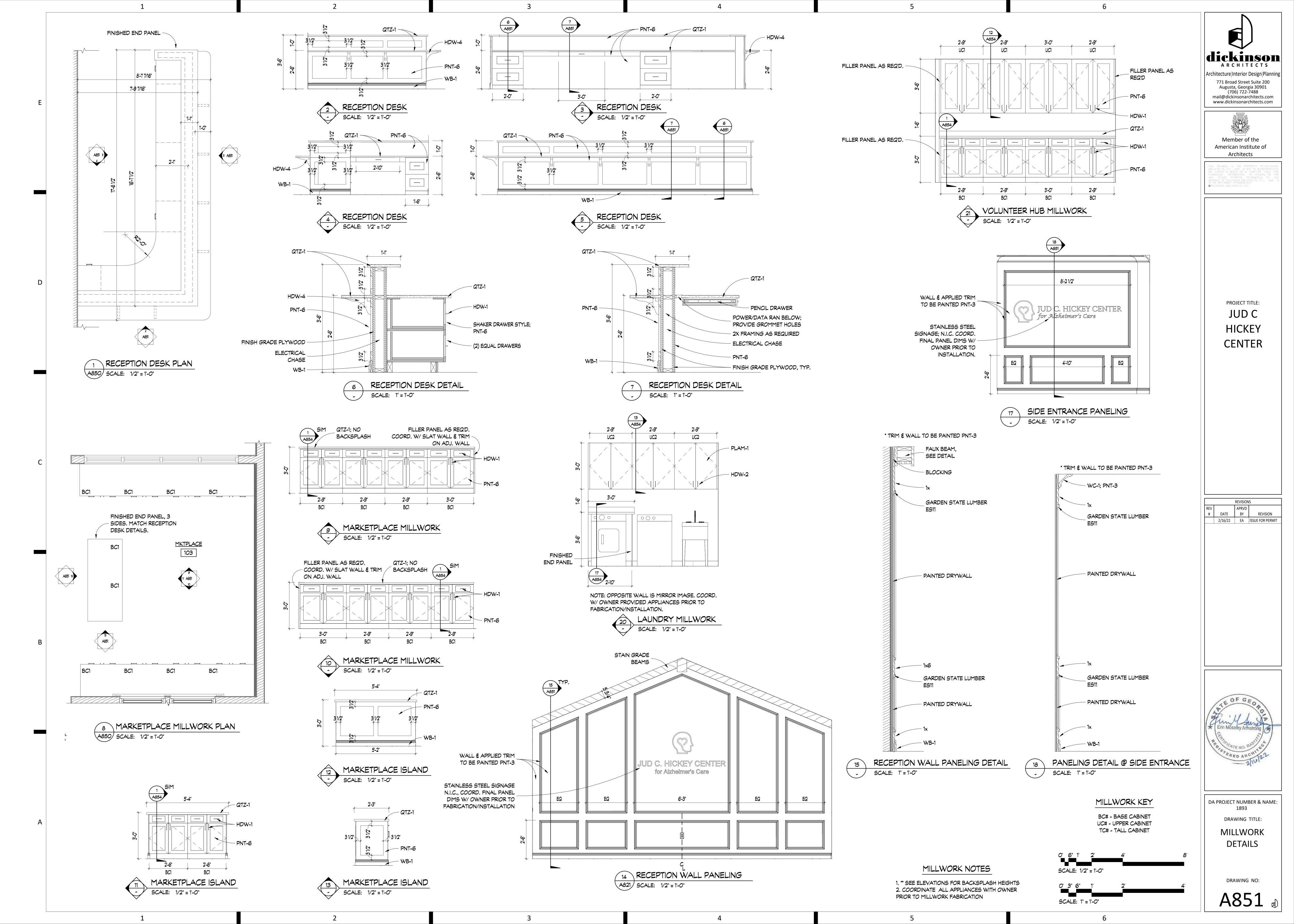
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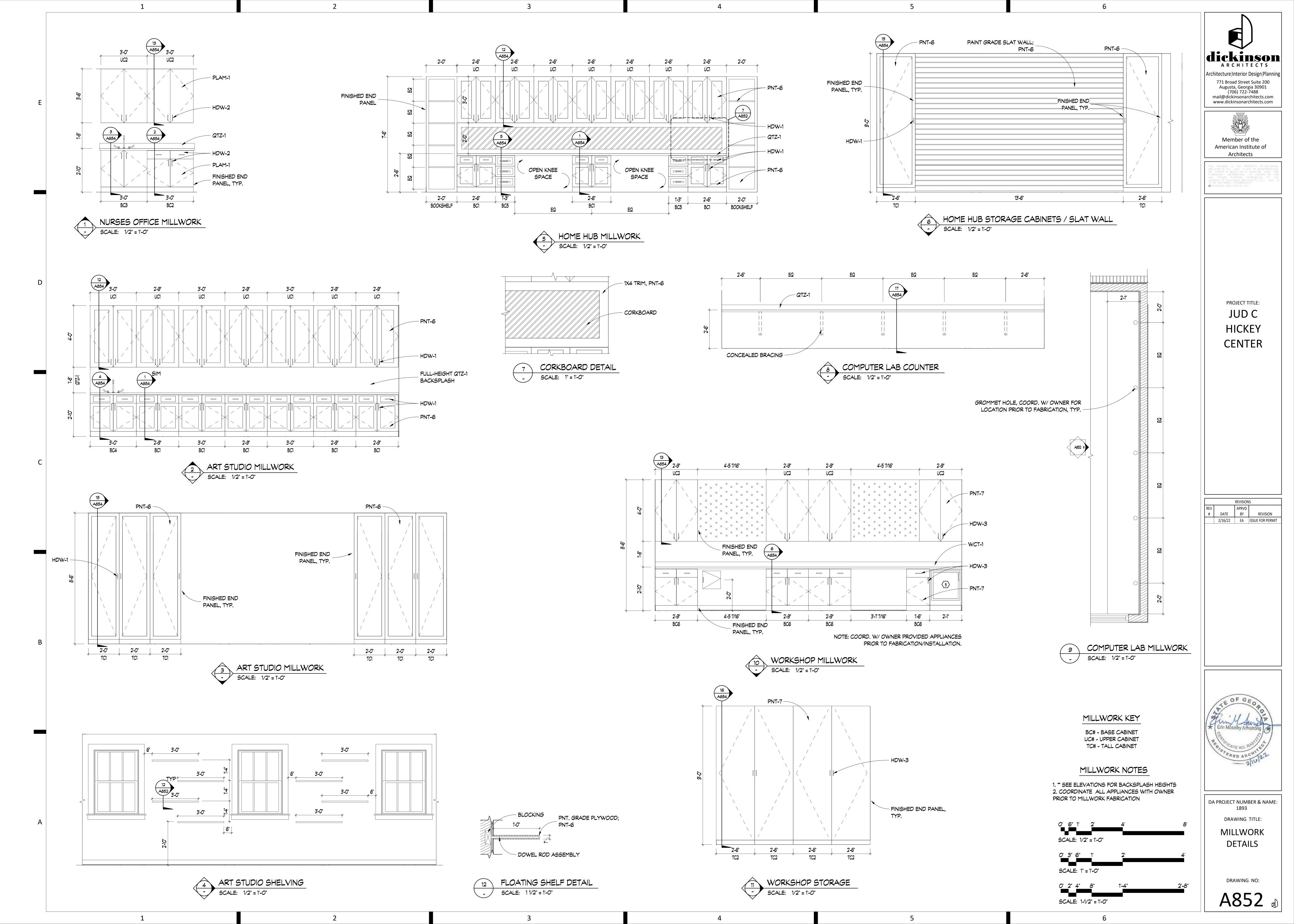
MILLWORK

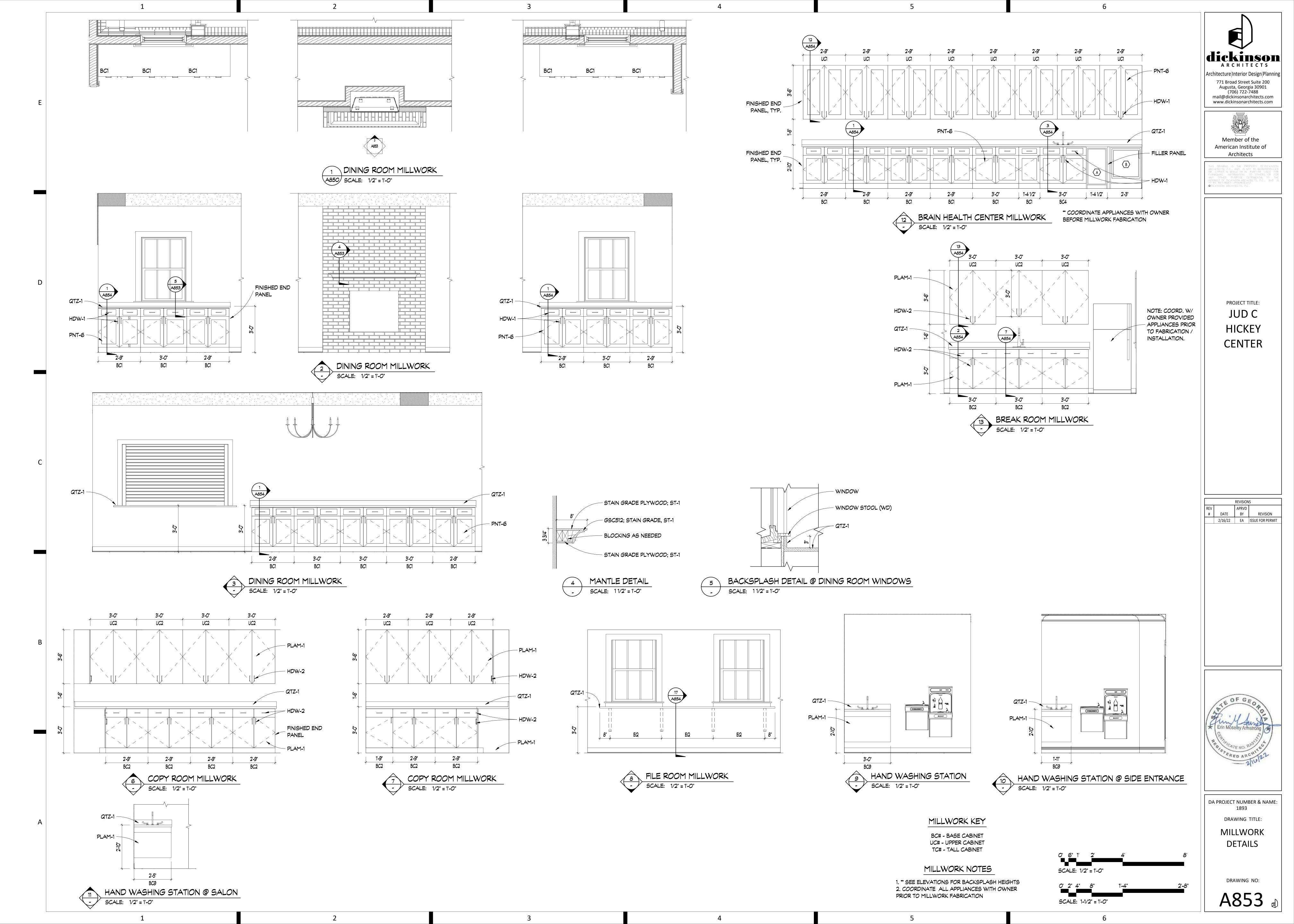
PLAN

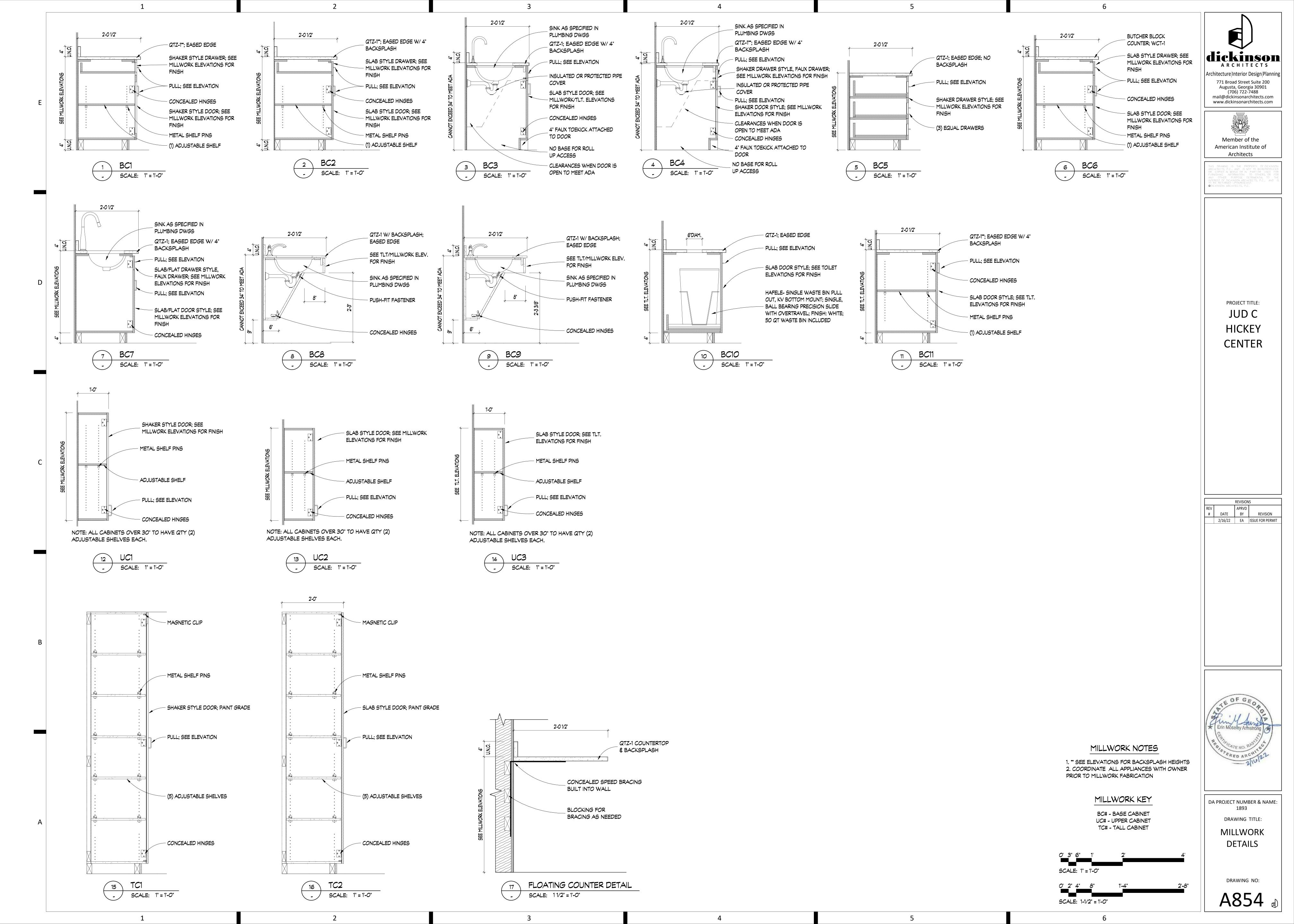
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SCALE: 1-1/2" = 1'-0"









GENERAL REQUIREMENTS

- 1. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) 2018
- 2. WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR CONDITIONS.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. DO NOT SCALE DRAWINGS, FOLLOW DIMENSIONS SHOWN ON PLANS.
- CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN IN, SECTIONS & DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASED AND SHALL NOTIFY ARCHITECT OR ENGINEER IN WRITING OF DISCREPANCIES.

FOUNDATION NOTES

- 1. FOUNDATION DESIGNED FOR 1,500 PSF MAXIMUM ALLOWABLE BEARING PRESSURE BASED ON GEOTECHNICAL REPORT NO. B-093.20 PREPARED BY CSRA TESTING & ENGINEERING COMPANY, INC., AND DATED OCTOBER 21, 2020.
- 2. ALL FOUNDATION FILL SUBGRADE SOILS SHALL BE COMPACTED AS FOLLOWS. (REF. ASTM D-698)
- A. 95% STANDARD PROCTOR FOR GREATER THAN 18" BELOW FINAL FILL.
 B. 98% STANDARD PROCTOR FOR THE UPPER 18" BENEATH BUILDINGS AND PAVEMENTS.
- 3. SOILS TESTING LABORATORY SHALL CONDUCT COMPACTED TESTS IN ACCORDANCE WITH ASTM
 - D-698. RATE OF COMPACTED SHALL BE AS FOLLOWS.

 A. ONE TEST FOR EACH 50 LINEAR FEET OF CONTINUOUS FOOTING.

 B. ONE TEST FOR EACH 1000 S.F. OF SLAB.
- 4. REMOVE ALL WATER SOFTEN SOILS FROM FOOTING EXCAVATIONS PRIOR TO PLACING
- CONCRETE. FILL REMAINING VOIDS WITH ADDITIONAL CONCRETE.

 5. SUPPORT ALL BOTTOM REINFORCEMENT IN FOUNDATION WITH CONCRETE BRICKS AT 48" O.C.
- 6. ALL FOOTING, AND OTHER FOUNDATION REINFORCING SHALL BE TIED IN PLACE PRIOR TO
- POURING CONCRETE.

 7. WHERE FINISH GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING, PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILLING,
- 9. WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCE. INTERFERENCE OFFSET AT GRAVITY SEWER UNLESS OTHERWISE SPECIFIED. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.

COMPACTION, FLOOR SLABS, AND FRAMING AT NEXT LEVEL OVER HAS BEEN COMPLETED

10. CONSTRUCTION JOINTS IN CONTINUOUS FOOTING TO BE FORMED VERTICALLY IN ACCORDANCE WITH FOUNDATION DETAILS IN PLANS.

CAST IN PLACE CONCRETE

- 1. THE FOLLOWING ACI STANDARDS (LATEST EDITION) APPLY:
- A. ACI 318 CODE
- B. ACI 315 DETAILING
 C. ACI 301 SPECIFICATIONS
- D. ACI 304 PLACING
- E. ACI 347 FORMWORK
- F. ACI 211.1 MIX PROPORTIONING
 G ACI 305 HOT WEATHER CONC
- G. ACI 305 HOT WEATHER CONCRETING
 H. ACI 306 COLD WEATHER CONCRETING
- H. ACI 306 COLD WEATHER CONCRETING

2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (145 PCF) WITH MIXES DESIGN THE FOLLOWING CRITERIA

28-DAY COMPRESSIVE STRENGTH

STRUCTURAL ELEMENTS

SLAB-ON-GRADE 3,000 PSI

FOOTINGS 3,000 PSI

SLAB ON GRADE

- 1. APPLY AN APPROVED CURING COMPOUND CONFORMING TO ASTM C 309 AFTER FINISHING THE SLAB.
- 2. ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A1064. LAP ADJOINING PIECES AT LEAST ONE FULL MESH OR 8" MINIMUM, UNLESS OTHERWISE APPROVED. ALL WELDED WIRE FABRIC SHALL BE BLOCKED INTO POSITION INDICATED WITH PRECAST CONCRETE BLOCKS HAVING A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.
- 3. THE MAXIMUM SPACING OF JOINTS SHALL BE 15' OR AS SHOWN ON PLANS.
- 4. ALL PURPOSE FILL MATERIAL SHALL BE CLEAN GRANULAR MATERIAL WITH 100% PASSING 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D-698.

SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE

- AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN FILL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 6. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAWINGS WHERE SHOWN.

WALKWAYS AND OTHER EXTERIOR ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE

- 7. THE FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE-A
- THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAIL, AND FINISH DETAILS.

 CONTROL JOINT SEALANT SHALL BE SIKADUR 51 NS/SLOP APPROVED FOLIAL EXPANSION AND ADDRESS OF ADDRESS OF
- 9. CONTROL JOINT SEALANT SHALL BE SIKADUR 51 NS/SL OR APPROVED EQUAL. EXPANSION AND ISOLATION JOINT SEALANT SHALL BE SIKAFLEX 1a OR APPROVED EQUAL.
- 0. MINIMUM REINFORCING STEEL CLEAR COVERS ARE AS FOLLOWS:
 - A. CONCRETE CAST IN PLACE DIRECTLY AGAINST EARTH...3"B. SLAB ON GRADE...3/4"
- B. SLAB ON GRADE...3/
- 11. TIMING OF THE SAWCUT:
 - A. WET CONVENTIONAL SAW CUT PROCESS SHOULD BE 4 TO 12 HOURS AFTER SLAB PLACEMENT; 4 HOURS IN HOT WEATHER AND 12 HOURS IN COLD WEATHER.
- B. EARLY-ENTRY DRY CUT PROCESS SHOULD BE 1 TO R HOURS AFTER SLAB
- B. EARLY-ENTRY DRY CUT PROCESS SHOULD BE 1 TO R HOURS AFTER SLAB PLACEMENT; 1 HOUR IN HOT WEATHER AND 4 HOURS IN COLD WEATHER.
- 12. DEPTH OF THE SAWCUT:
 - A. WET CONVENTIONAL SAWCUT PROCESS: 1 INCH.
 - B. EARLY-ENTRY DRY-CUT PROCESS: 1-1/2 INCHES.
 - SLAB ON GRADE WWR (WELDED WIRE REINFORCEMENT) SPECIFIED IN PLAN CAN BE SUBSTITUTED WITH STRUCTURAL MACROSYNTHETIC FIBRILLATED POLYPROPYLENE FIBER AS APPROVED BY THE ENGINEER OF RECORD. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE THE CONVERSION OF THE WWR TO EQUIVALENT AMOUNT OF STRUCTURAL FIBER. THE CALCULATION TO CONVERT THE WWR TO EQUIVALENT STRUCTURAL FIBER SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS BEING CONSTRUCTED AND FORWARDED TO THE ENGINEER OF RECORD FOR REVIEW AT LEAST FIVE (5) DAY S PRIOR TO THE DAY THAT IT IS TO BE UTILIZED IN CONSTRUCTION

SUBGRADE PREPERATION

- 1. CONTRACTOR SHALL STRIP AND REMOVE ALL VEGETATION TOPSOIL, ROOTS, AND ORGANIC SOILS FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 10' BEYOND THE EXTENT OF BUILDING FOUNDATION LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS, AND OTHER UNACCEPTABLE MATERIALS, BUT IN NO CASE SHALL IT BE LESS THAN 12".
- PROOFROLLING SHALL BE PERFORMED UNDER THE OBSERVATION OF AN APPROVED TESTING LABORATORY SUPERVISED BY A GEOTECHNICAL ENGINEER. UNDERCUT, BACKFILL, AND COMPACT AREAS WHICH PUMP, DEFLECT, OR RUT EXCESSIVELY OR WHICH DO NOT STABILIZE AFTER SUCCESSIVE PASSES OF PROOFROLLING EQUIPMENT.

DIMENSIONAL LUMBER FRAMING

- 1. ALL STRUCTURAL LUMBER DESIGN SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL DESIGNS SPECIFICATION FOR WOOD CONSTRUCTION (NDS-2018).
- 2. LOCATION, NUMBER, AND DIMENSIONS OF FRAMING MEMBERS SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC., SHALL BE DETERMINED FROM ARCHITECTURAL
- 3. SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE SECTIONS, HEADER AND LINTEL LOCATIONS, AND ALL NON-STRUCTURAL FRAMING AND TRIM.
- 4. ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE "SCHEDULE OF REQUIRED STRESS VALUES."
- 5. ALL STUD AND WALL FRAMING SHALL BE NO. 2 GRADE SOUTHERN YELLOW PINE (SYP.) "STUD" GRADE MATERIAL IS STRICTLY PROHIBITED FROM USE.
- 6. ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 1 GRADE, SOUTHERN YELLOW PINE. PROVIDE FULL-DEPTH BLOCKING AT ENDS. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN.
- ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.25 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "ABOVE GRADE USE." ALL LUMBER IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION OF 0.40 lbs. OF ACQ PER CUBIC FOOT OF WOOD, AND EACH PIECE SHALL BEAR THE THIRD PARTY QUALITY MARK, "GROUND CONTACT USE". REFERENCE STANDARD AWPA C2 AND ASTM D1760 FOR PRESSURE TREATMENT OF TIMBER PRODUCTS.
- 8. WHERE POSSIBLE ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPS STD. M4.)
- 9. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOAD BEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOAD BEARING FRAMING SHALL BE LIMITED TO LESS THAN ½ OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO ½ OF THE NARROW FACE DIMENSIONS.
- 10. ALL WOOD JOISTS AND HEADERS WHICH FRAME INTO BEAMS SHALL BE SUPPORTED BY SIMPSON LUS HANGERS WITH THE SAME WIDTH AND DEPTH OF THE MEMBER, U.N.O. USE HANGERS WITH CONCEALED FLANGES WHERE THE CONNECTOR CANNOT BE HIDDEN BY WOOD TRIM OR THE SUPPORT MEMBER IS WIDER THAN THE STANDARD FLANGE
- TRIM OR THE SUPPORT MEMBER IS WIDER THAN THE STANDARD FLANGE.

 11. PROVIDE NAILING PATTERN IN COMPLIANCE WITH IBC RECOMMENDED FASTENING SCHEDULE.
- 12. LOAD BEARING STUD WALLS SHALL BE CONTINUOUSLY BRIDGED AT MID-HEIGHT AND UNSUPPORTED PLYWOOD WALL SHEATHING JOINTS WITH SOLID WOOD BLOCKING, U.N.O.
- 13. NO CUTS, HOLES, OR COPES IN STRUCTURAL WOOD FRAMING SHALL BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT.
- 14. PROVIDE FULL-DEPTH BLOCKING AT ENDS OF RAFTERS AND JOISTS. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O.C. IN BETWEEN.
- 15. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A 36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM A 307 AND BE 1/2" DIAMETER UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
- 16. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
- 17. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF IBC, SECTION 23.
- 18. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.
- 19. ADEQUATE BRACING SHALL BE PROVIDED UNTIL PERMANENT BRACING AND/OR DIAPHRAGMS
- 20. OVERLAP ALL TOP PLATES AT CORNERS.

ARE INSTALLED.

- 21. JOINTS IN THE DOUBLE TOP PLATES OF WALLS SHALL BE OFFSET A MINIMUM LAP LENGTH OF 4'-0" & NAILED WITH NOT LESS THAN (15) 16d FACE NAILS ON EACH SIDE OF THE JOINT.
- 22. ALL BEAMS SHALL HAVE LATERAL SUPPORT AT THE COMPRESSION EDGE AT A MAXIMUM OF 24"
- O.C. AND AT BEARING POINTS, WITH A MINIMUM BEARING LENGTH OF 3 1/2."

 23. PROVIDE DOUBLE JOISTS OR SOLID BLOCKING AT 24" O.C. UNDER ALL PARTITIONS AND TO
- SUPPORT CONCENTRATED LOADS FROM FRAMING ABOVE, UNLESS NOTED OTHERWISE.
- 24. PROVIDE DOUBLE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN PLYWOOD DECK UNLESS OTHERWISE INDICATED.
- 25. PROVIDE HEADERS, BRIDGING, CONNECTORS, BLOCKING, TRIMMERS, ETC. AS REQUIRED AND RECOMMENDED BY AITC TIMBER CONSTRUCTION STANDARDS AND IBC 2018 U.N.O.
- 26. WOOD FRAMING MATERIALS:
 - A. ALL DIMENSIONAL LUMBER (EXCEPT WALL STUDS) SHALL BE #1 SYP KD OR BETTER AND PROVIDE NOT LESS THAN THE DESIGN VALUES LISTED IN NDS 2018 SUPPLEMENT.
 - B. PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUSS JOIST WEYERHAEUSER", OR APPROVED EQUAL. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE MANUFACTURER'S APPROVAL.
 - C. PRE-ENGINEERED MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES:

 LVL Fb = 2600 psi Fv = 285 psi E = 2.0 mpsi Fc = 750 psi

 PARALAM PSL Fb = 2809 psi Fv = 290 psi E = 2.0 mpsi Fc = 625 psi
 - D. SHEATHING:

REQUIRED LAP SPLICE

LENGTH FOR 3,000 PSI

CONCRETE

BAR SIZE | LAP LENGTH

#5

30"

36"

- WALLS......APA RATED SHEATHING, EXPOSURE 1 OR EXTERIOR ROOF......APA RATED SHEATHING, EXPOSURE1, 2, OR EXTERIOR FLOOR.....APA RATED STURD-I-FLOOR
- E. ALL BOLTS SHALL BE ASTM A307 WITH WASHERS, GALVANIZED.
- F. NAILS IN ACCORDANCE WITH MINIMUM NAILING REQUIREMENTS OF IBC EXCEPT WHERE NOTED IN DETAILS OR SPECIFICATIONS. ALL NAILS TO BE GALVANIZED.

PLYWOOD/GYP BOARD SHEATHING

- 1. ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.
- 2. ALL ROOF PANEL SHEATHING SHALL BE PER PLAN. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY THE USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING.
- 3. ALL FLOOR SHEATHING SHALL BE TONGUE & GROOVE PER PANEL. FIELD-GLUE USING ADHESIVES MEETING APA SPECIFICATIONS AFG-01, APPLIED IN ACCORDANCE WITH MANUFACTURERS
- 4. ALL PANEL SHEATHING SHALL BE PER PLAN.

RECOMMENDATIONS.

- 5. INSTALL ALL PLYWOOD SHEATHING AT FLOOR AND ROOF WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS.
 STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PAN EL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
- 6. ALL NAILS SHALL NOT BE OVERDRIVEN.
- 7. PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS:
 ROOFS AND FLOORS ONLY WHERE INDICATED ON PLAN
 WALLS FULLY BLOCKED
- 8. WHERE EITHER 2" OR 2 1/2" FASTENER SPACINGS ARE USED FOR WOOD STRUCTURAL PANELS USED AT ROOF OR FLOOR, THE FRAMING MEMBER AT THE ADJOINING PANEL SHALL BE 3" NOMINAL WIDTH AND THE NAILS AT PANEL EDGES SHALL BE STAGGERED IN TWO LINES.
- 9. ALL PLYWOOD AND SHEATHING SHALL BE APA RATED, BEAR THE STAMP OF AN APPROVED TESTING AGENCY, AND SHALL BE FABRICATED WITH EXTERIOR GLUE. NAILS AT ABUTTING PLYWOOD EDGES MUST PENETRATE THE SAME PIECE OF FRAMING OR BLOCKING.

 OPENINGS IN SHEATHING (DIAPHRAGMS):
 - A. PERIMETER OF ANY OPENINGS SHALL BE FASTENED AS BOUNDARY
 - B. OPENINGS WITH A DIMENSION PERPENDICULAR TO THE JOISTS GREATER THAN 4'-0" SHALL BE BLOCKED BEYOND THE HEADERS, AND METAL TIES NOT LESS THAN 16 GAGE BY 1-1/2" WIDE WITH 8-16d COMMON NAILS ON
 - EACH SIDE OF THE HEADER-JOIST INTERSECTION SHALL BE PROVIDED.

 C. AT SHEAR WALLS OR DRAG STRUTS, THE PLYWOOD DIAPHRAGM MUST BE NAILED TO TOP PLATES, MEMBERS, BLOCKING, ETC. AS FOLLOWS:

 EXTERIOR WALLS/ DIAPHRAGM EDGES: 1x BOUNDARY NAILING INTERIOR WALL LINES: 2x BOUNDARY NAILING

PRE ENGINEERED WOOD TRUSSES

- 1. WOOD TRUSS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATIONS OF THE NATIONAL FOREST PRODUCTS ASSOCIATION. THE DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES OF THE TRUSS PLATE INSTITUTE AND INTERNATINAL BUILDING CODE
- 2. ALL TRUSSED RAFTERS SHALL BE DESIGNED, FABRICATED, AND ERECTED TO SUPPORT THE FOLLOWING MINIMUM LOADS:
 - LIVE TOP CHORD = 20 PSF
 - DEAD TOP CHORD = 20 PSF
 DEAD BOTTOM CHORD = 20 PSF + MECHANICAL EQUIPMENT
 - WIND TOP CHORD GROSS UPLIFT = 30 PSF
- 3. UNLESS NOTED OTHERWISE, WOOD MATERIALS SHALL BE SOUTHERN PINE, DOUGLAS FIR OR LARCH AND SHALL BE KILN DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT. PROVIDE GRADE NO. 2 OR AS REQUIRED TO SATISFY STRESS REQUIREMENTS.
- UNLESS NOTED OTHERWISE, PROVIDE AT EACH SUPPORT GALVANIZED METAL HURRICANE
 PLATE ANCHORAGES SUFFICIENT TO RESIST HORIZONTAL AND VERTICAL WIND COMPONENTS
 WITH A SAFETY FACTOR OF 3. MINIMUM UPLIFT LOAD AS DETERMINED BY TRUSS
 MANUFACTURER FROM REQUIREMENTS OF LOCAL BUILDING CODES.
 THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED
- RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES" SHALL BE A MINIMUM REQUIREMENT.

 6. SHOP DRAWINGS, COMPUTATIONS, ETC. TO BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL PROVIDE ERECTION LAYOUT FOR TRUSS RAFTERS, OUTRIGGERS,

FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET

LICENSED IN THE STATE IN WHICH THE PROFECT IS BEING CONSTRUCTED.

ALTERED IN ANY WAY WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

- HEADERS, BRACING, ETC. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR SUPPORT LOCATIONS.

 7. CALCULATIONS AND DRAWINGS SHALL BEAR THE SEAL OF A PROFFESSIONAL ENGINEER
- 8. TRUSS WEB TO CHORD CONNECTION SHALL BE MADE WITH APPROVED GALVANIZED STEEL TRUSS CONNECTION PLATES MEETING ALL REQUIREMENTS OF THE TRUSS PLATE INSTITUTE.

9. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE

DESIGN CRITERIA

1. BUILDING CODE:
2018 INTERNATIONAL BUILDING CODE

2. GRAVITATIONAL LOADS (ASCE 7-16):

CONCENTRATED DISTRIBUTED

ROOF

LL = N/A LL = 20 PSF DL = N/A DL = 20 PSF

GROSS UPLIFT = 30 PSF
COLLATERAL LOAD CL = 5 PSF

1ST FLOOR

LL = N/A LL = 40 PSF DL = 2,000 LBS DL = 15 PSF

WIND LOADS (ASCE 7-16):

BASIC WIND SPEED (3 SEC GUST) = 112 MPH
RISK CATEGORY = II

EXPOSURE CATEGORY = B
GCp = ± 0.18

4. IBC 2018 / ASCE 7-16

RISK CATEGORY = II

IMPORTANCE FACTOR = 1.00

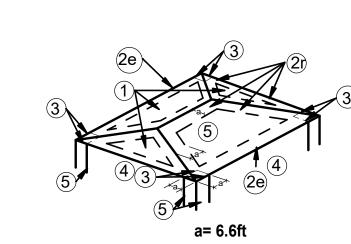
DESIGN CATEGORY = C

SITE CLASS = D

S_s = 0.226 g

S₁ = 0.097 g

 $S_{DS}=0.241~g$ $S_{D1}=0.155~g$ SEISMIC FORCE RESISTING SYSTEM = LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS. SEISMIC RESPONSE COEFFICIENT, $C_s=0.0371$ RESPONSE MODIFICATION FACTOR, R=6.5ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE SEISMIC BASE SHEAR = C_sW WHERE W=WEIGHT OF STRUCTURE



COMPONENTS AND CLADDING WIND PRESSURES (PSF)

	ZONE	AREA (SF)	+P	-P
		10	21.8	-39.9
	1	20	19.3	-33.9
		50	16.1	-25.8
		100	13.7	-19.8
		10	21.8	-39.9
	(2e)	20	19.3	-33.9
ഥ		50	16.1	-25.8
ROOF		100	13.7	-19.8
R.		10	21.8	-44.0
	(2n)	20	19.3	-39.3
		50	16.1	-33.1
		100	13.7	-28.5
		10	21.8	-39.9
	(2r)	20	19.3	-33.9
		50	16.1	-25.8
		100	13.7	-19.8
		10	21.8	-53.9
	(3e)	20	19.3	-47.8
	30	50	16.1	-39.7
		100	13.7	-33.5
		10	21.8	-44.0
	(3r)	20	19.3	-39.3
		50	16.1	-33.1
		100	13.7	-28.5
		10	23.8	-25.8
	4	20	22.7	-24.7
		50	21.3	-23.3
WALLS		100	20.2	-22.2
۸۸		10	23.8	-31.9
	5	20	22.7	-29.7
		50	21.3	-26.9
		100	20.2	-24.7

WIND SPEED = 115 MPH ROOF SLOPE= 27° TO 45°



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PROJECT TITLE:

JUD C

HICKEY

CENTER

REVISIONS

DATE BY REVISION

4-16-21 JRH 35% SET

11-17-21 JRH 65% SET

2-16-22 JRH ISSUE FOR PERMIT

Mo. FE036027

02/16/2022

DA PROJECT NUMBER & NAME:
1893
SHEET TITLE:
STRUCTURAL

NOTES

SHEET NO:

STRUCTURAL
PROFESSIONAL ENGINEERS & CONSULTANTS

1450 GREENE ST., STE 82
AUGUSTA, GA 30901
PH: 706.303.4400

PRYCO STRUCTURAL PROJECT NO: 21.005

EXP: 06/30/2022

2

	CONTINUOUS	PERIODIC SPECIAL	REFERENCED	IBC REFERENCE
TYPE	SPECIAL INSPECTION	INSPECTION	STANDARD	IDC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	_	X	ACI 3118: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2.REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706:	_	X		
B. INSPECT SINGLE -PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	x	AWS D1.4 ACI 318: 26.6.4	
C. INSPECT ALL OTHER WELDS	-	-		
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.23	
4. INSPECT ANCHORS POST- INSTALLED IN HARDENED CONCRETE MAMBERS.				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	-	X	ACI 318: 17.8.24 ACI 318: 17.8.2	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.				
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 19,26.4.3, 26.4.4	1904.1,1904.2, 1908.2, 1908.3
6. PRIOR TO CONRETE PLACEMENT FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPEREATURE OF TEH CONCRETE.	X	_	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.1
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	_	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTANANCE OF SPECIFIED CURING TEMPEREATURE AND TECHNIQUES.	_	x	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR.				
A. APPLICATION OF PRESTRESSED FORCES: AND	_	_	ACI 318: 26.10	
B. GROUTING OF BONDED PRESTRESSING TENDONS.	-	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	-	ACI 318: 26.9	
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	_	-	ACI 318: 26.11.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEBER BEING FORMED.	_	X	ACI 318: 26.11.1.2(B)	

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
I. VERIFY MATERIALS BELOW SHOLLOW FOUNMDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PEFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	_	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	X





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JUD C
HICKEY
CENTER



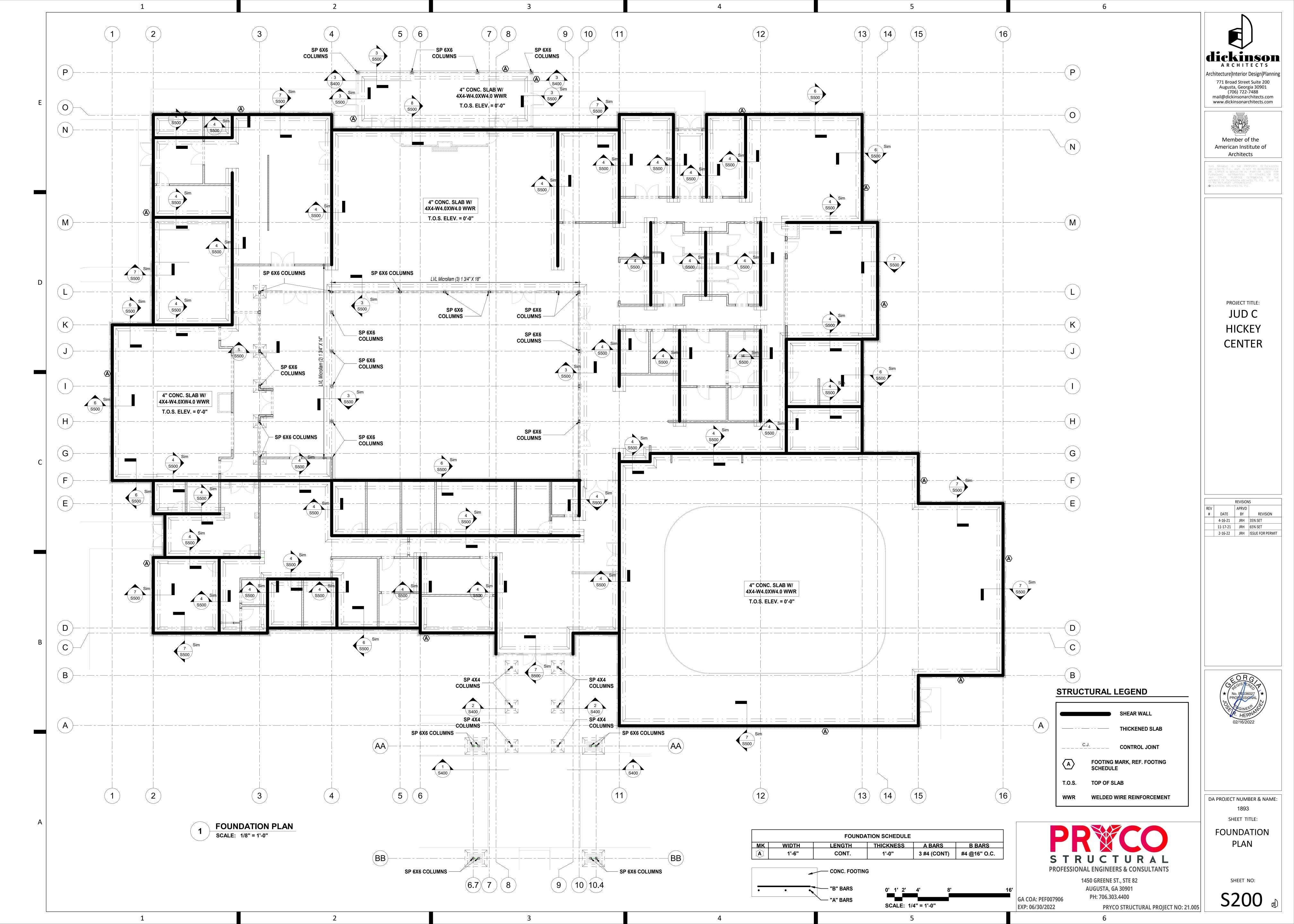
DA PROJECT NUMBER & NAME:
1893
SHEET TITLE:
SPECIAL
INSPECTIONS

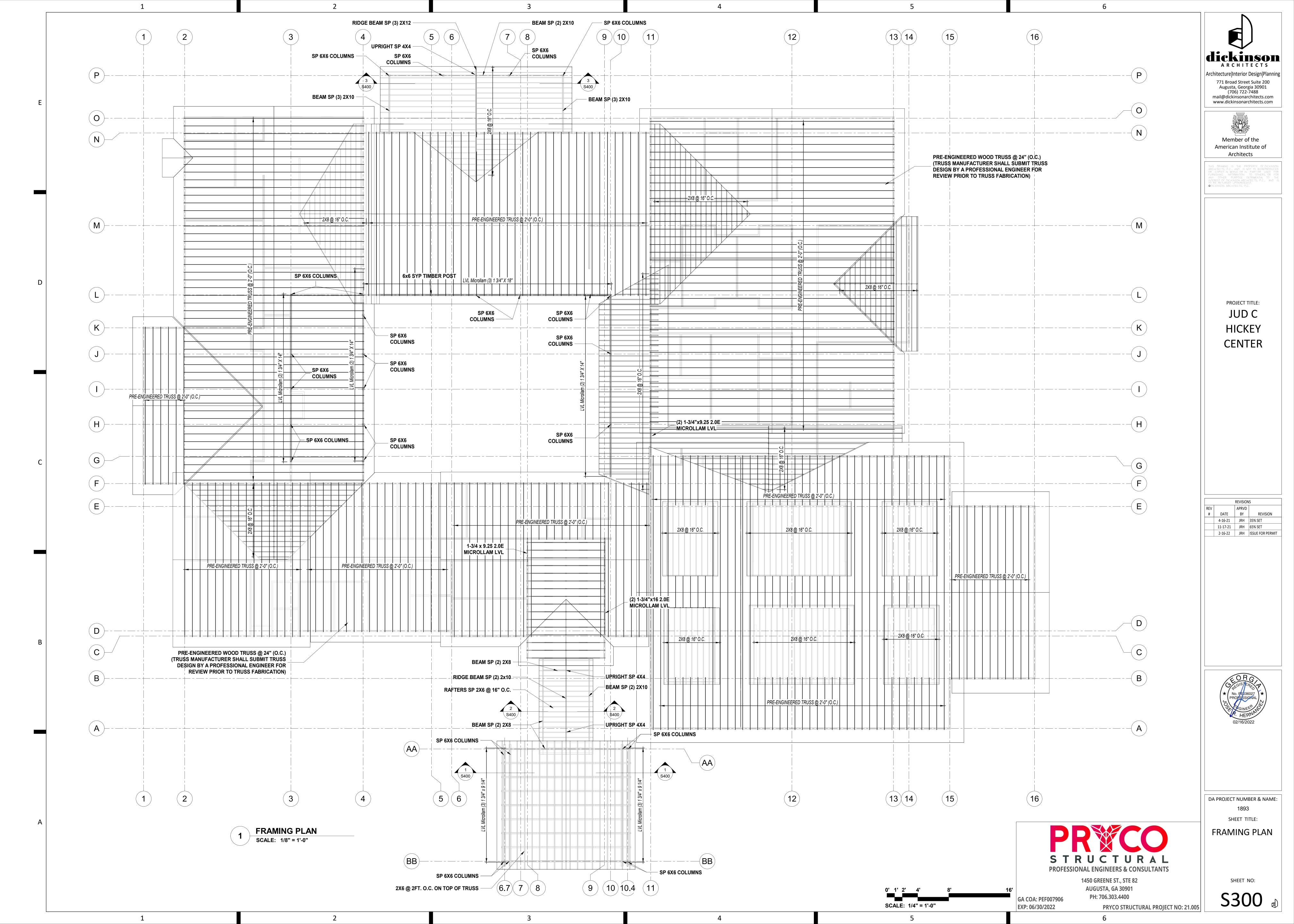
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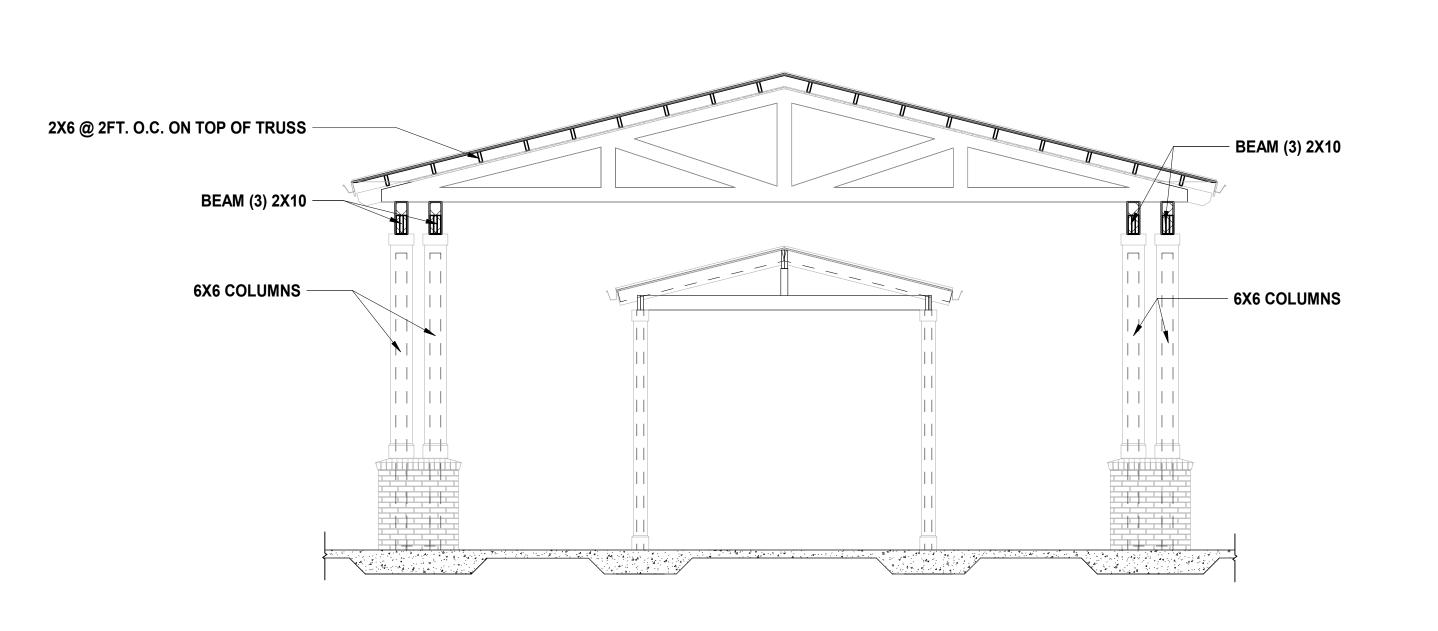
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1450 GREENE ST., STE 82
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GA COA: PEF007906 PH: 706.303.4400
EXP: 06/30/2022 PRYCO STRUCTURAL PROJECT NO: 21.005

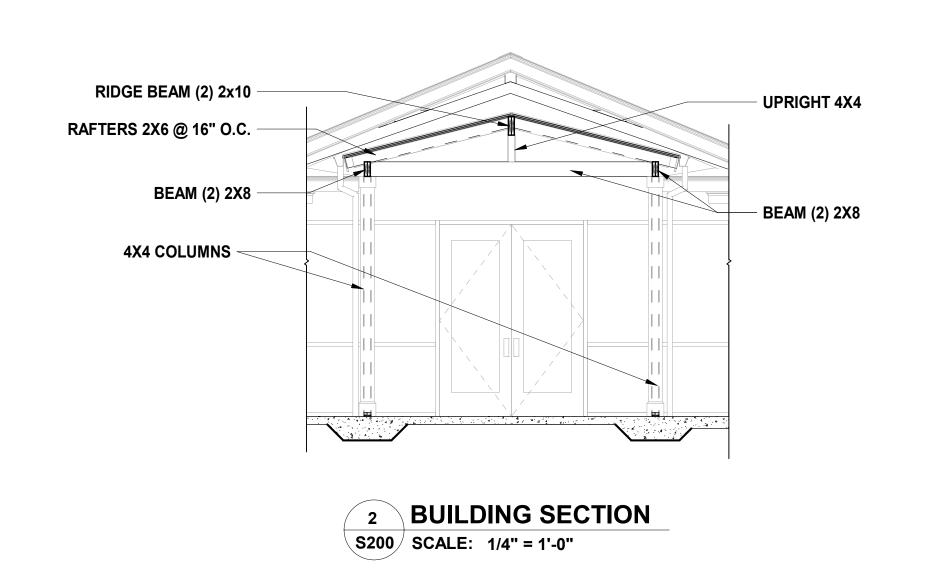


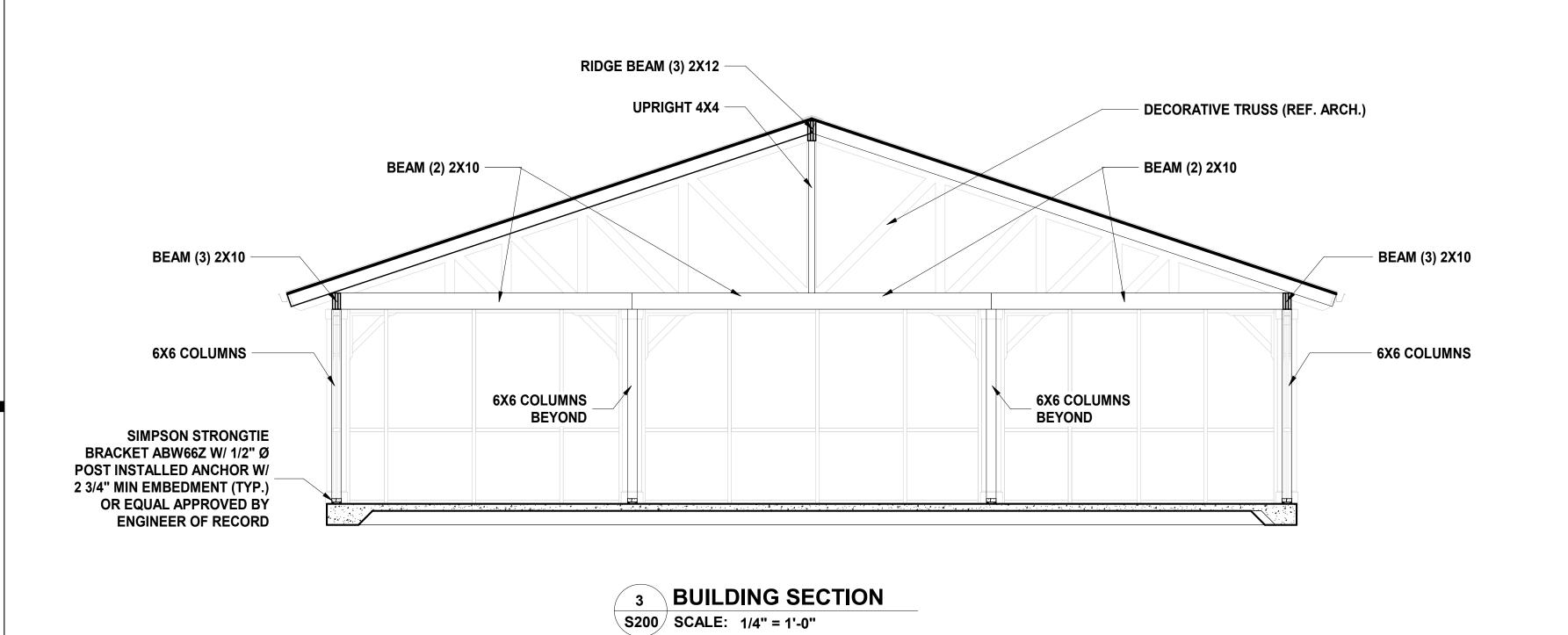




1 BUILDING SECTION

S200 SCALE: 1/4" = 1'-0"









PROJECT TITLE: CENTER

DATE BY REVISION 4-16-21 JRH 35% SET 11-17-21 JRH 65% SET 2-16-22 JRH ISSUE FOR PERMIT



DA PROJECT NUMBER & NAME: SHEET TITLE:

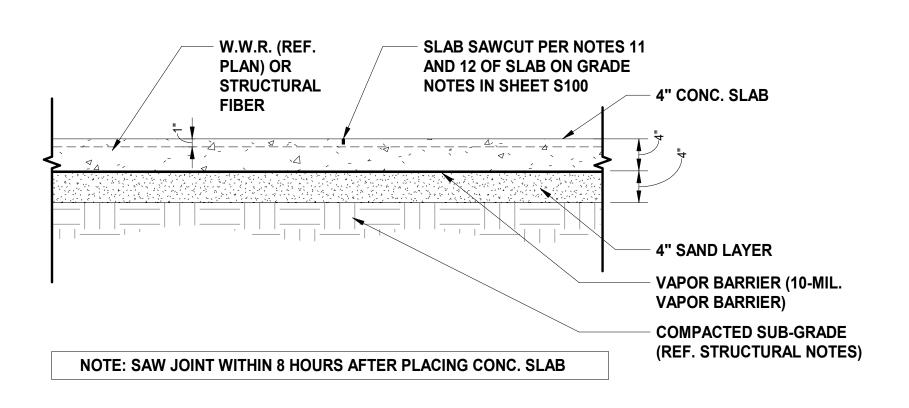
> BUILDING SECTION

> > SHEET NO:

PRYCO STRUCTURAL PROJECT NO: 21.005

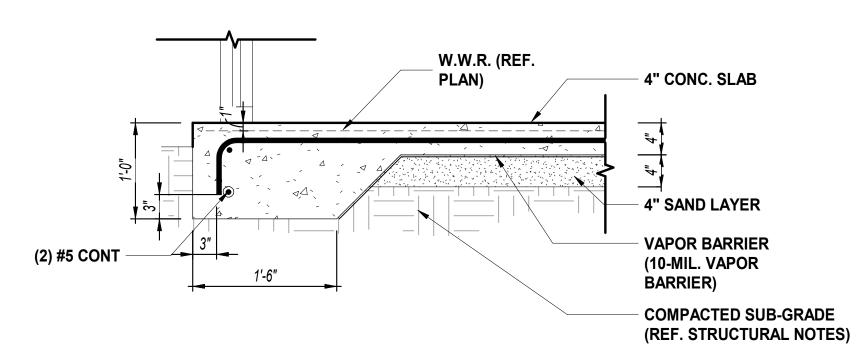
PRICO STRUCTURAL PROFESSIONAL ENGINEERS & CONSULTANTS 1450 GREENE ST., STE 82

AUGUSTA, GA 30901 PH: 706.303.4400 GA COA: PEF007906 EXP: 06/30/2022

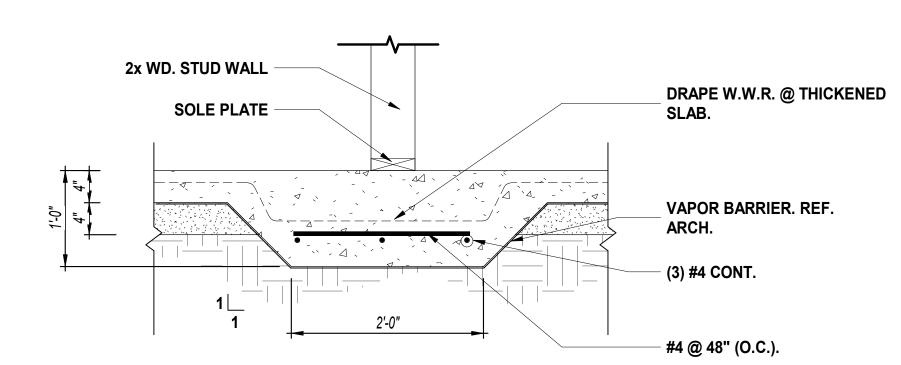


CONCRETE SLAB ON GRADE 4"

SCALE: 1" = 1'-0"

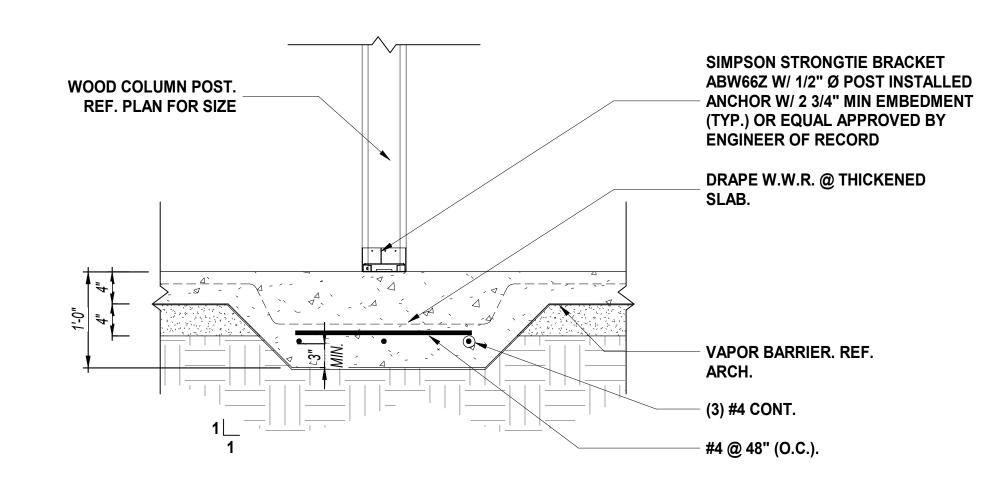


3 TURNDOWN SLAB DETAIL S200 SCALE: 1" = 1'-0"

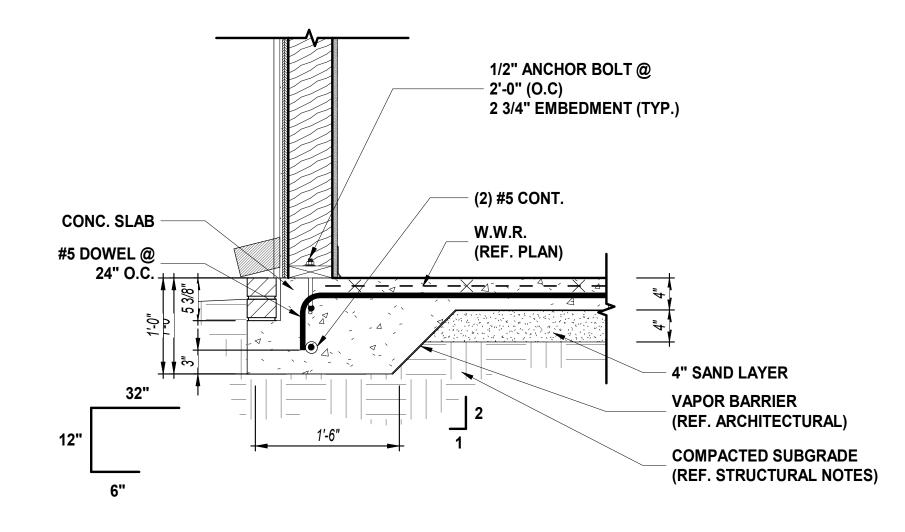


4 THICKENED SLAB AT WALL DETAIL

S200 SCALE: 1" = 1'-0"

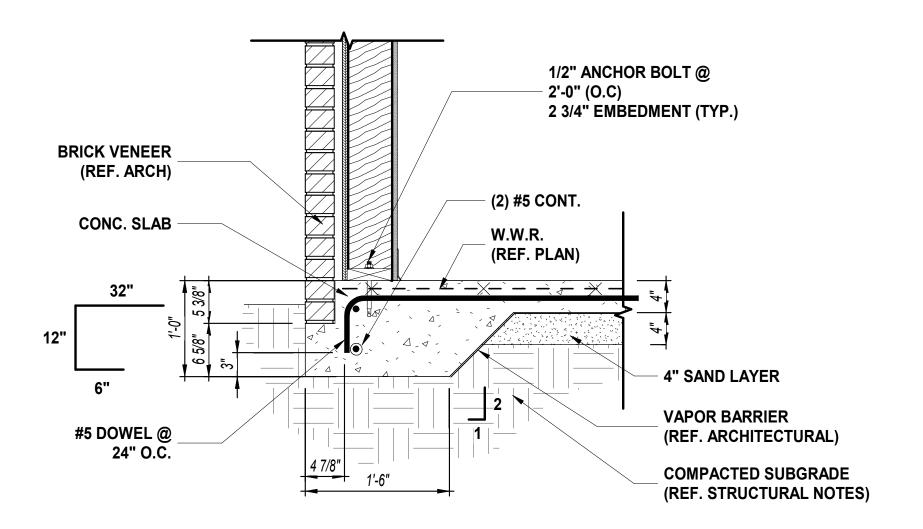


5 THICKENED SLAB AT COLUMN S200 SCALE: 1" = 1'-0"

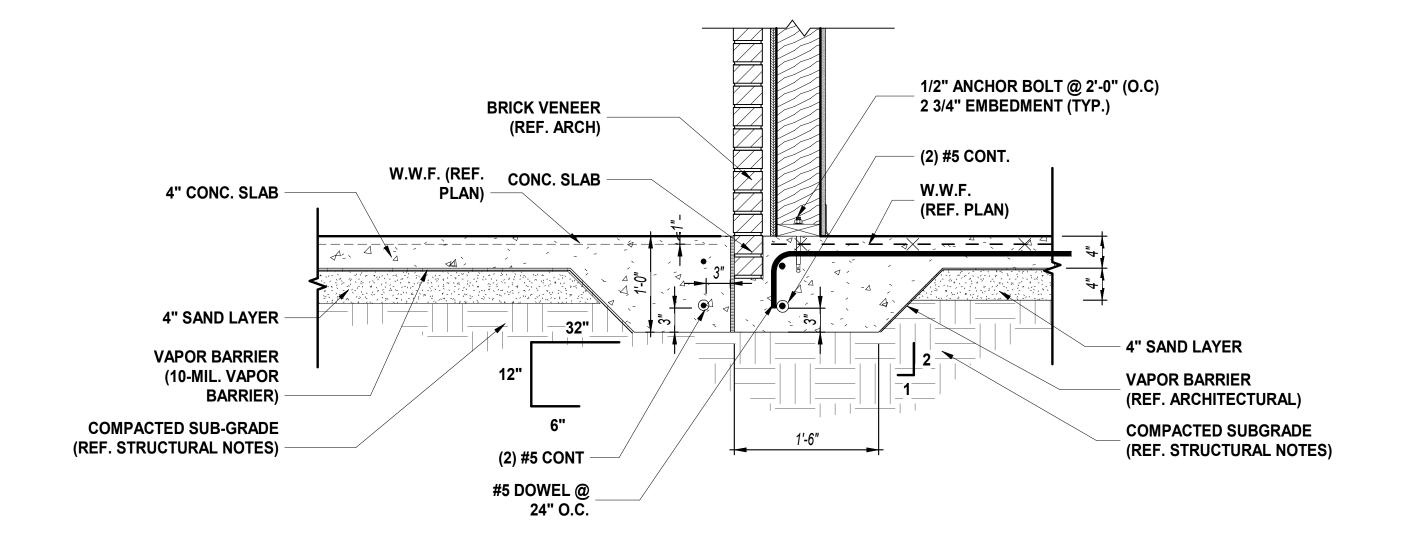


6 TURNDOWN SLAB DETAIL

S200 SCALE: 1" = 1'-0"



7 TURNDOWN SLAB DETAIL S200 SCALE: 1" = 1'-0"

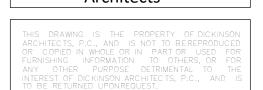


8 TURNDOWN SLAB DETAIL

S200 SCALE: 1" = 1'-0"

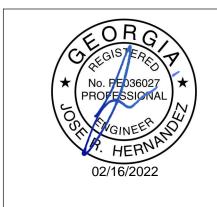


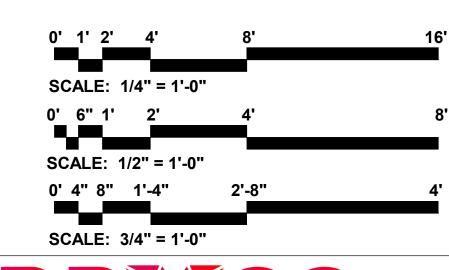




PROJECT TITLE: JUD C HICKEY CENTER

REVISIONS # DATE BY REVISION 4-16-21 JRH 35% SET 11-17-21 JRH 65% SET 2-16-22 JRH ISSUE FOR PERMIT





STRUCTURAL PROFESSIONAL ENGINEERS & CONSULTANTS

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EXP: 06/30/2022

SHEET NO:

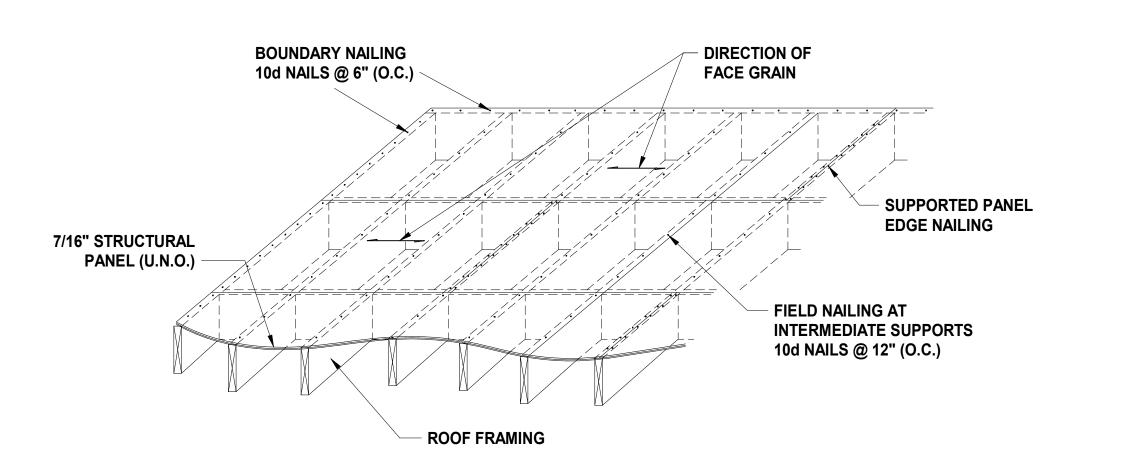
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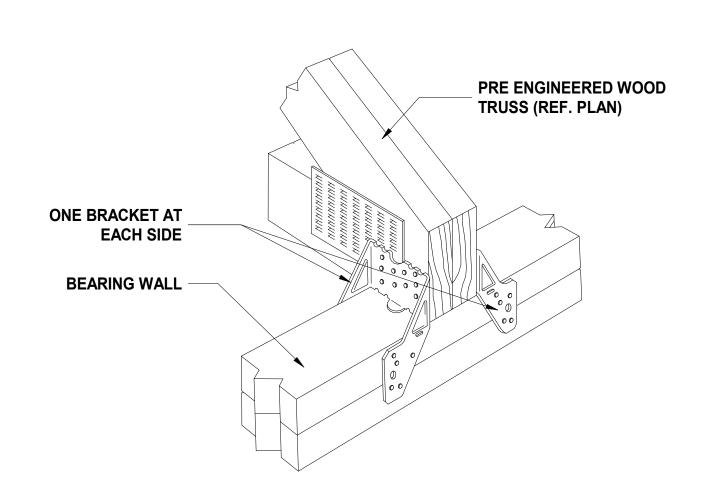
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FOUNDATION

DETAILS



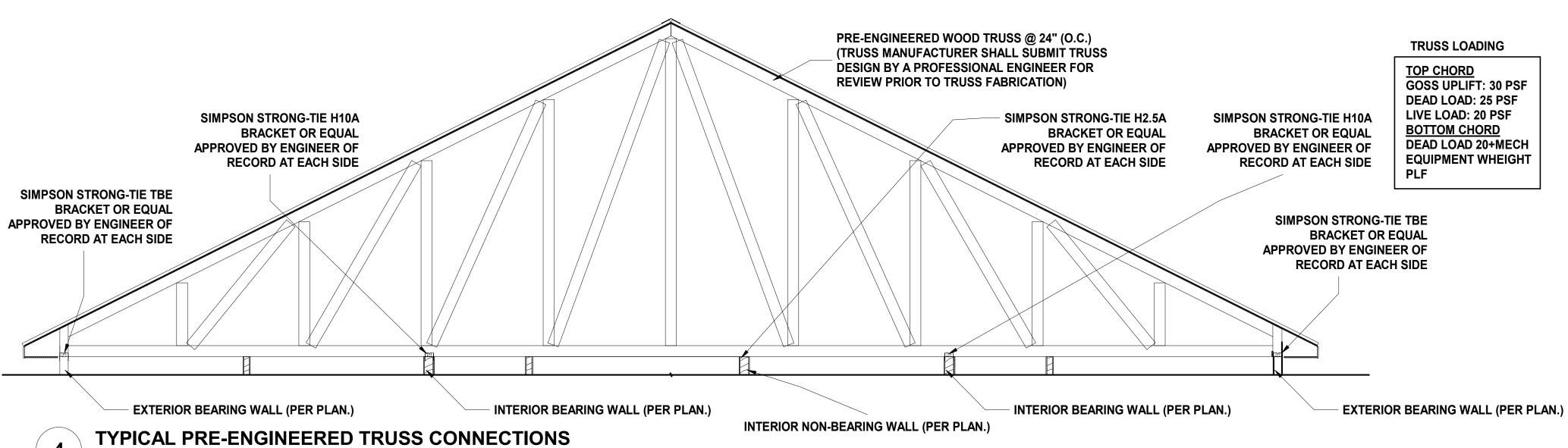
ROOF SHEATHING SCALE: 1" = 1'-0"



TRUSS BEARING WALL CONNECTION

WOOD TRUSSES (REF. PLAN) - SIMPSON STRONGTIE BRACKET (REF. DETAILS) LAP DOUBLE TOP PLATE MIN. 4' ONE TBE BRACKET AT DOUBLE TOP PLATE TOP CRIPPLES EACH SIDE OF TRUSS T.O. PLATE_ REF. ARCH. 1. ALL JOINTS SHALL BE SOLID BLOCKED 2. PERIMETER OF WINDOW/DOOR ROUGH OPENINGS SHALL BE FASTENED AS BOUNDARY NAILING. 3. ALL PANEL EDGES SHALL BE BACKED WITH 2" OR WIDER **WOOD STRUCTURAL** (NOMINAL) FRAMING MEMBERS OR SOLID BLOCKING ON EDGE. OSB PANEL 7/16" THK. ~ CENTER LINE OF 2X12 HEADER X2 **2X12 HEADER X2 BOUNDARY NAIL** SPACING 8d @ 6" 10d NAILS @ 7/16" STRUCTURAL **BLOCKING (REQ.)** 12" (O.C.) SECTION - A PLY. WD. \setminus KING STUD -KING STUD -TRIMMER -TRIMMER X2 -INTERMEDIATE NAIL SPACING 8d @ 1'-0" - SILL - 2X6 STUDS @ - BOTTOM CRIPPLES 16" O.C. (MAX.) **FLOOR SLAB** 1/2" ANCHOR BOLT @ 2'-0" (O.C) — 2 3/4" EMBEDMENT (TYP.)

SHEAR WALL DETAIL
SCALE: 3/4" = 1'-0"



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DA PROJECT NUMBER & NAME: 1893 SHEET TITLE:

FRAMING DETAILS

SHEET NO:

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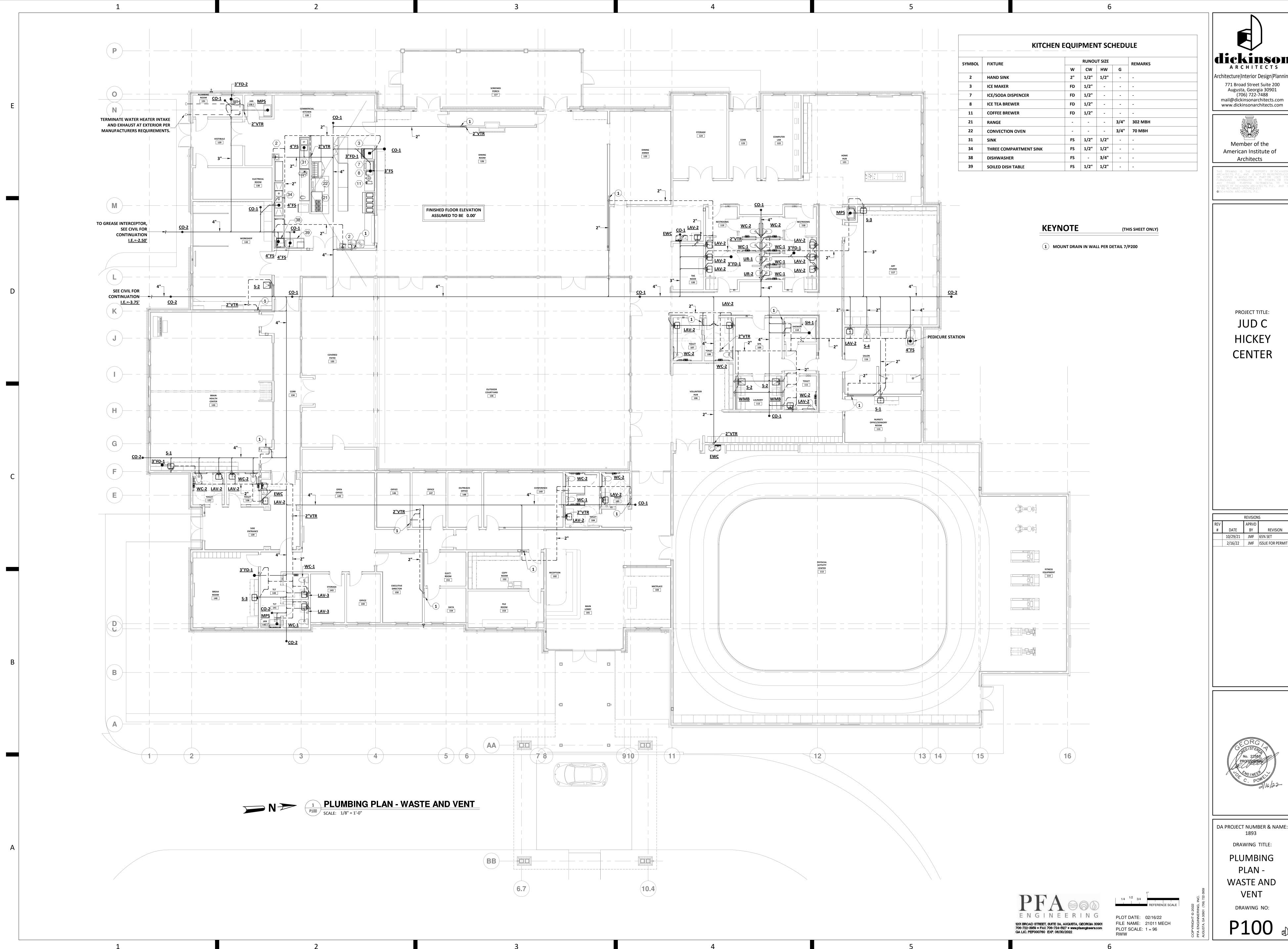
STRUCTURAL

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PRYCO STRUCTURAL PROJECT NO: 21.005

SCALE: 1/4" = 1'-0"

GA COA: PEF007906 EXP: 06/30/2022



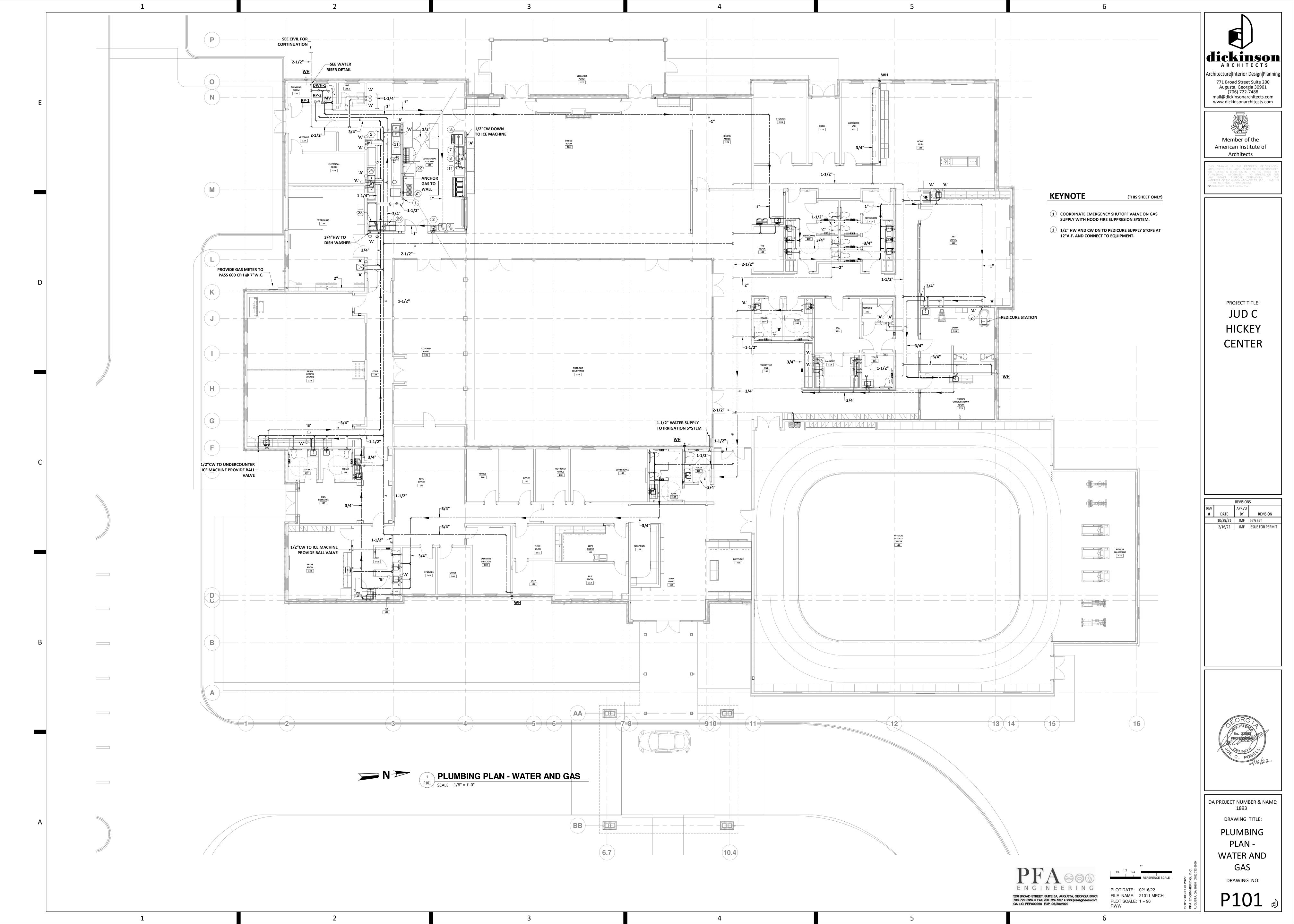
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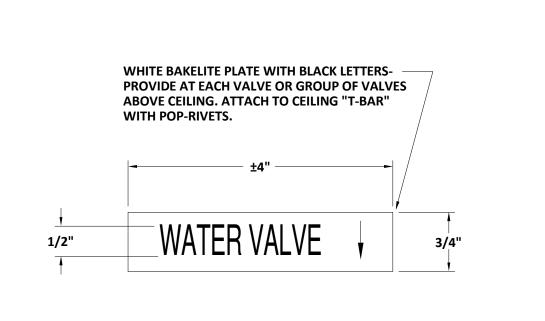


 10/29/21
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 65% SET

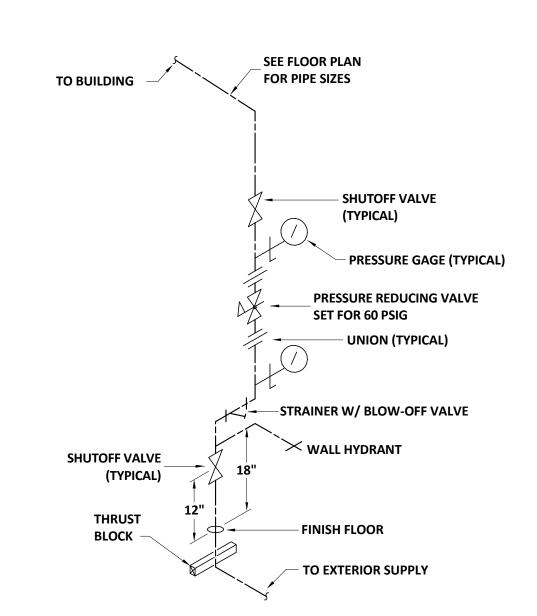
 2/16/22
 JMF
 ISSUE FOR PERMIT



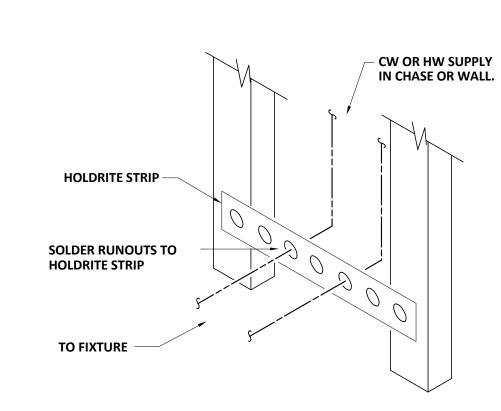




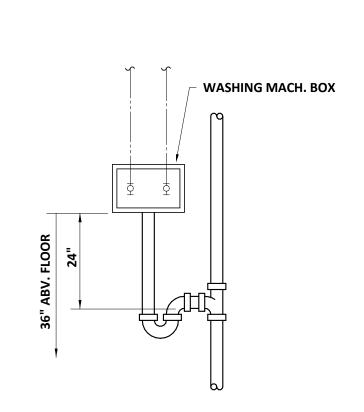




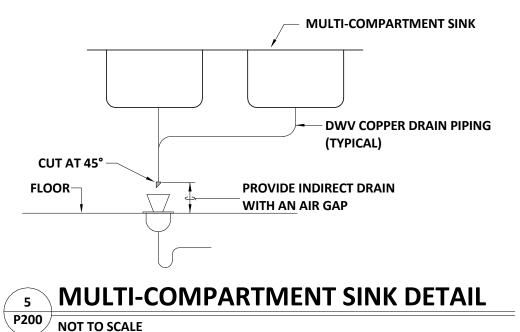
PLUMBING DOMESTIC WATER RISER P200 SCHEMATIC ONLY

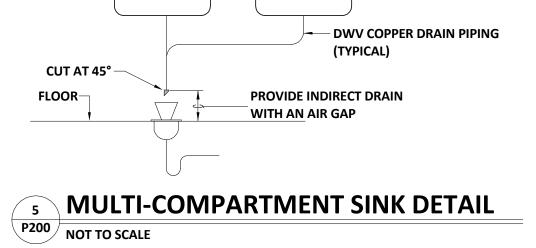


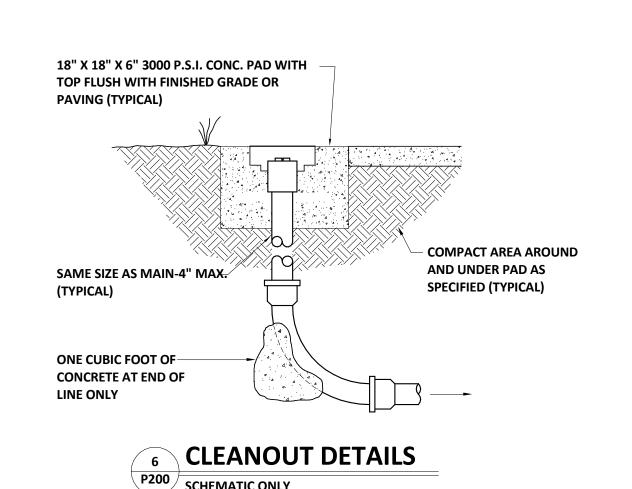
RUNOUT ANCHOR DETAILS

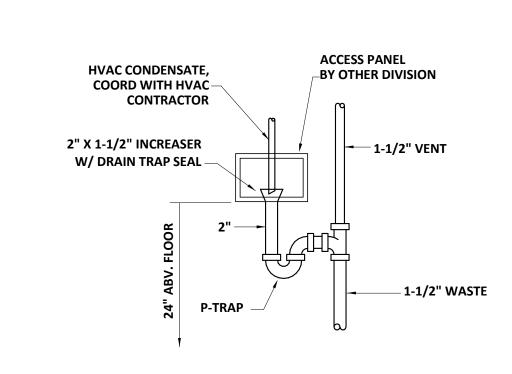


WASHING MACHINE BOX DETAIL P200 SCHEMATIC ONLY

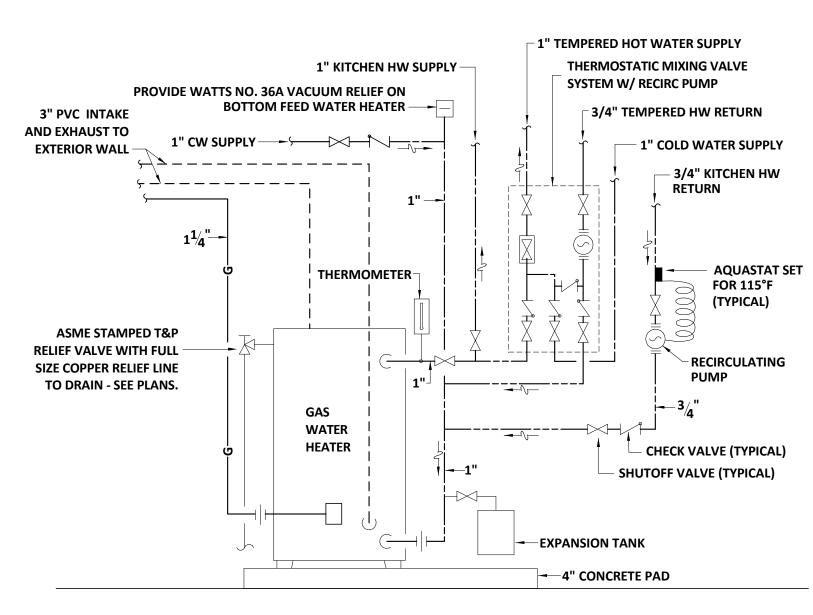








CONDENSATE DRAIN OUTLET P201 SCHEMATIC ONLY









DRUM TRAP





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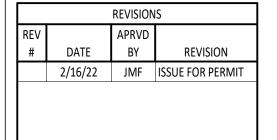
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PROJECT TITLE: JUD C HICKEY CENTER





DA PROJECT NUMBER & NAME: DRAWING TITLE: PLUMBING **DETAILS**



GENERAL PLUMBING NOTES

EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.

INSTALL UNDERGROUND WATER LINE(S) ABOVE SOIL AND WASTE LINES(S). WATER LINE IN SAME TRENCH WITH SOIL OR WASTE LINE SHALL BE INSTALLED ON AN UNDISTURBED EARTH LEDGE WITH THE BOTTOM OF THE WATER LINE 12" (MIN.) ABOVE TOP OF SOIL OR WASTE LINE.

REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOORS WHERE FLOOR DRAINS AND CLEANOUTS ARE LOCATED.

CONNECTION OF KITCHEN EQUIPMENT SHALL BE BY THIS CONTRACTOR UNDER THE SUPERVISION OF EQUIPMENT MANUFACTURER'S REPRESENTATIVE. PROVIDE SHUTOFF VALVES WHERE WATER AND/OR GAS CONNECT TO EQUIPMENT. PROVIDE INDIRECT DRAIN CONNECTIONS FROM EQUIPMENT TO FLOOR DRAINS.

PROVIDE SLEEVES FOR PIPES PASSING THRU FLOORS, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY.

INSTALL INTERIOR HOSE BIBBS 20" ABOVE FLOOR EXCEPT AS NOTED OTHERWISE. WHERE HOSE BIBBS ARE INSTALLED ADJACENT TO FIXTURE STOPS, INSTALL HOSE BIBBS AT SAME CENTERLINE ELEVATIONS AS FIXTURE STOPS.

COORDINATE LOCATIONS OF FLOOR DRAINS AND CLEANOUTS IN MECHANICAL ROOMS WITH HVAC EQUIPMENT.

INSTALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE, EXCEPT AS NOTED OTHERWISE.

PROVIDE DRAIN TRAP SEALS EQUAL TO MIFAB MIGARD FOR ALL HUB DRAINS, FLOOR DRAINS & FLOOR SINKS.

VENT TERMINALS SHALL NOT BE LOCATED WITHIN 10' OF FRESH AIR INTAKE. COORDINATE WITH APPROPRIATE TRADE

PLUMBING SPECIFICATIONS

GENERAL: ENTIRE SYSTEM SHALL BE INSTALLED TO MEET APPLICABLE LOCAL, STATE AND NATIONAL CODES, CURRENT REQUIREMENTS OF NFPA AND NATIONAL ELECTRIC CODE.

PLUMBING SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE.

NATURAL GAS SYSTEM SHALL COMPLY WITH THE INTERNATIONAL FUEL GAS CODE AND GAS SERVICE PROVIDER.

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. INSTALLING CONTRACTOR SHALL FURNISH FULLY FUNCTIONING SYSTEMS.

PLUMBING SUBCONTRACTOR SHALL HAVE A CLASS II UNLIMITED LICENSE AND SHALL HAVE DEMONSTRATED PROFICIENCY IN THE INSTALLATION OF PLUMBING SYSTEMS BY THE SUCCESSFUL INSTALLATION OF SYSTEMS SIMILAR TO THOSE INCLUDED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. A MASTER OR JOURNEYMAN PLUMBER SHALL BE PRESENT AT THE SITE DURING THE INSTALLATION OF ALL PLUMBING RELATED WORK.

OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF THIS WORK AND PAY ALL CHARGES INCIDENT THERETO.

COORDINATION: MECHANICAL WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO AVOID CONFLICT. THE CONTRACTOR SHALL STUDY ALL PLANS AND SPECIFICATIONS FOR THIS PROJECT AND SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY CONFLICT BETWEEN WORK UNDER THE PLUMBING DIVISION AND WORK UNDER OTHER DIVISIONS OF THE PROJECT. PARTICULAR ATTENTION SHALL BE GIVEN TO INTERFERENCE BETWEEN PIPING,

ELECTRICAL INSTALLATIONS, STRUCTURAL SYSTEMS, BUILDING OPENINGS AND DUCTWORK.

COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.

SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK.

NATURAL GAS SERVICE: GAS DISTRIBUTION SYSTEM PIPING, SERVICE PRESSURE REGULATOR AND GAS METER WILL BE PROVIDED BY GAS UTILITY UNDER THIS SECTION. ALL FEES FOR METER INSTALLATION AND CONNECTION SHALL BE BORNE UNDER THIS SECTION.

WASTE AND VENT PIPING: BELOW SLAB: SCH. 40 PVC PIPE AND DRAINAGE PATTERN FITTINGS WITH SOLVENT WELD JOINTS.

<u>WATER PIPING:</u> TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS AND SOLDERED JOINTS. USE SILVER-BRAZED JOINTS UNDER CONCRETE FLOORS AND SLABS. USE DIELECTRIC UNIONS AT CONNECTIONS TO FERROUS PIPING.

FUEL (NATURAL OR PROPANE) GAS PIPING: SCH. 40 BLACK STEEL WITH 125 LB. MALLEABLE IRON SCREW PATTERN FITTINGS. PAINT EXTERIOR EXPOSED GAS PIPING WITH ONE COAT OF PRIMER AND TWO COATS OF YELLOW ENAMEL PAINT.

TESTS: DO NOT COVER PIPING UNTIL TESTS HAVE BEEN APPROVED BY THE OWNER'S REPRESENTATIVE.

WATER PIPING: 150 PSIG HYDROSTATIC PRESSURE FOR 4 HOURS.

WASTE AND VENT PIPING: 10 FT. HYDROSTATIC HEAD FOR 4 HOURS.

ROOF DRAIN PIPING: 10 FT. HYDROSTATIC HEAD FOR 4 HOURS.

FUEL GAS PIPING: 100 PSIG AIR PRESSURE FOR 4 HOURS. APPLY LIQUID LEAK DETECTOR TO ALL JOINTS WHILE SYSTEM IS UNDER TEST PRESSURE.

<u>WATER VALVES:</u> CLASS 150, 400-PSI CWP, ASTM B 584 BRASS OR BRONZE BODY AND BONNET, 2-PIECE CONSTRUCTION; STAINLESS STEEL BALL, FULL PORT; BLOWOUT PROOF; STAINLESS STEEL STEM; TEFLON SEATS AND SEALS.

WATER VALVES SHALL BE AMERICAN VALVE, NIBCO, MILWAUKEE, WATTS OR APOLLO.

FUEL GAS VALVES (COCKS): ASME 16.33 CERTIFIED; FORGED BRASS BODY; STAINLESS STEEL BALL, FULL PORT; BLOWOUT PROOF; STAINLESS STEEL STEM. INCLUDE EPDM O-RING AND PTFE PACKING GLAND STEM WITH PLASTIC COATED HANDLE.

GAS VALVES SHALL BE LEGEND, NIBCO, MILWAUKEE OR WATTS.

GAS PRESSURE REGULATORS: ANSI Z21.18, SINGLE-STAGE, STEEL-JACKETED, CORROSION-RESISTANT PRESSURE REGULATORS. INCLUDE ATMOSPHERIC VENT, ELEVATION COMPENSATOR, WITH THREADED ENDS CONFORMING TO ASME B1.20.1 FOR 2-INCH NPS AND SMALLER AND FLANGED ENDS FOR 2-1/2-INCH NPS AND LARGER. REGULATOR PRESSURE RATINGS, INLET AND OUTLET PRESSURES, AND FLOW VOLUME IN CUBIC FEET PER HOUR OF NATURAL GAS AT SPECIFIC GRAVITY ARE AS INDICATED.

SERVICE PRESSURE REGULATORS: INLET PRESSURE RATING NOT LESS THAN NATURAL GAS DISTRIBUTION SYSTEM SERVICE PRESSURE.

LINE GAS PRESSURE REGULATORS: INLET PRESSURE RATING NOT LESS THAN SYSTEM PRESSURE.

GAS PRESSURE REGULATOR VENTS: FACTORY- OR FIELD-INSTALLED CORROSION-RESISTANT SCREEN IN OPENING WHEN NOT CONNECTED TO VENT PIPING.

INSULATION: INSULATION SHALL BE 1" THREE POUND PER CUBIC FOOT_DENSITY PREFORMED FIBERGLASS WITH VAPOR BARRIER AND WHITE FOIL SCRIM CRAFT (ASJ) JACKET WITH GLASS FIBER THREADS. MITER ALL ELBOWS AND SEAL WITH ADHESIVE/MASTIC APPROVED FORMULATED FOR FIBERGLASS INSULATION. FITTINGS SHALL BE COVERED WITH PVC FITTING COVERS. INSULATION SHALL CONFORM TO ASTM E84.

INSULATE THE FOLLOWING:
ABOVEGROUND HOT WATER PIPING.

ABOVEGROUND HOT WATER PIPING.

ABOVEGROUND HOT WATER RETURN PIPING.

ABOVEGROUND COLD WATER PIPING.

P-TRAPS ON DRAINS RECEIVING CONDENSATE.

<u>HANGERS AND SUPPORTS:</u> HANGERS SHALL BE SUPPORTED WITH ALL-THREAD ROD. HANGERS SHALL BE SECURED TO THE CONCRETE DECK ABOVE USING CONCRETE INSERTS. HANGERS SHALL BE ATTACHED TO THE STEEL STRUCTURE OVERHEAD WITH GRINNELL FIG. 86 "C" CLAMP. SUPPORT SPACING SHALL CONFORM TO BUILDING CODE REQUIREMENTS, PIPE MANUFACTURERS' RECOMMENDATIONS, MSS SP-58 AND MSS SP-69.

WATER PIPING: SUPPORT FROM STRUCTURE ABOVE WITH ANVIL CT-69 COPPER PLATED HANGERS OR EQUAL.

SOIL, WASTE AND VENT PIPING: SUPPORT WITH ANVIL FIG. 65 GALVANIZED CLEVIS HANGERS OR EQUAL

NATURAL GAS PIPING: SUPPORT FROM STRUCTURE ABOVE WITH ANVIL C-69 HANGERS OR EQUAL.

WATER HAMMER ARRESTERS: SIOUX CHIEF OR EQUAL. WATER HAMMER ARRESTERS SHALL BE CERTIFIED WITH THE PLUMBING DRAINAGE INSTITUTE

"STANDARD P.D.1. WH-201".

WATER HEATER: COMMERCIAL MODEL WITH STEEL JACKET AND BAKED-ON ENAMEL FINISH; INCLUDE FIBERGLASS OR POLYURETHANE FOAM INSULATION JACKET. TANK SHALL INCLUDE A FACTORY INSTALLED, MAGNESIUM ANODE ROD AND COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE COMPLYING WITH ASME PTC 25.3. UNIT SHALL HAVE A 3-YEAR WARRANTY. COORDINATE VOLTAGE REQUIREMENTS WITH ELECTRICAL DIVISION.

WATER HEATERS SHALL BE MANUFACTURED BY A.O. SMITH, BRADFORD WHITE, LOCHINVAR, RHEEM, RUUD AND STATE.

EXPANSION TANK: PAINTED STEEL TANK WITH NSF/ANSI 61 BUTYL DIAPHRAGM & POLYPROPYLENE LINER.

EXPANSION TANKS SHALL BE MANUFACTURED BY AMTROL, WATTS, FLEXCON & A.O. SMITH.

RECIRCULATING PUMP: BRONZE PUMP HOUSING WITH CERAMIC SHAFT SUPPORTED BY CARBON BEARINGS AND STAINLESS STEEL IMPELLER; BEARINGS LUBRICATED BY THE CIRCULATING FLUID. INCLUDE AQUASTAT WITH METAL ENCLOSURE, STRAP-ON MOUNTING, VISIBLE POINT SCALE, EXTERNAL ADJUSTMENT SCREW AND 65F TO 200F OPERATING RANGE. WIRE AQUASTAT IN SERIES WITH PUMP.

RECIRCULATING PUMPS SHALL BE MANUFACTURED BY BELL & GOSSET, GRUNDFOS OR TACO.

THERMOSTATIC MIXING VALVES: DURABLE LEAD-FREE BRASS VALVE CASTING WITH BRONZE AND STAINLESS STEEL INTERNAL COMPONENTS; SERVICEABLE INTEGRAL CHECK STOPS; ASSE 1017 COMPLIANT.

MIXING VALVES SHALL BE MANUFACTURED BY APOLLO, BRADLEY, LAWLER, LEONARD, POWERS OR SYMMONS.

<u>PLUMBING FIXTURES & EQUIPMENT</u>: PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS:

VITREOUS CHINA AND CAST IRON FIXTURES SHALL BE MANUFACTURED AMERICAN STANDARD, KOHLER OR ZURN.

FLUSH VALVE SHALL BE MANUFACTURED BY SLOAN, ZURN OR AMERICAN STANDARD.

STAINLESS STEEL SINKS SHALL BE MANUFACTURED BY ADVANCE TABCO, ELKAY, JUST OR FRANKE KINDRED.

WATER COOLERS SHALL BE MANUFACTURED BY ELKAY, HALSEY TAYLOR OR OASIS.

SHOWERS SHALL BE MANUFACTURED BY AMERICAN STANDARD, CHICAGO, KOHLER, SYMMONS OR ZURN.

FAUCETS SHALL BE AS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

DRAINS AND CLEANOUTS SHALL BE MANUFACTURED BY JOSAM, MIFAB, SMITH, WADE, WATTS OR ZURN.

<u>FIXTURE STOPS</u>: CHROME PLATED QUARTER TURN STOPS WITH SOFT COPPER CHROME PLATED RISER AND CHROME ESCUTCHEON EQUAL TO BRASSCRAFT KTCS SERIES, MCGUIRE BV SERIES, WATTS 894 SERIES OR ZURN 8800 SERIES.

<u>FIXTURE TRAPS:</u> 17 GA. CHROME PLATED BRASS W/SLIP NUT OUTLET AND CHROME PLATED DEEP ESCUTCHEON. FOR DOUBLE BOWL SINKS, USE CONTINUOUS WASTE 17 GA. CHROME PLATED BRASS W/SLIP NUT OUTLET AND CHROME PLATED DEEP ESCUTCHEON. TRAPS SHALL BE MANUFACTURED BY MCGUIRE, DEARBORN BRASS, WATTS OR ZURN.

DRAIN TRAP SEALS: DRAIN TRAP SEALS: FITTING INSTALLS IN DRAIN BODY OUTLETS TO BLOCK SEWER GASES; ASSE 1072 COMPLIANT; HDPE OR ABS PLASTIC FRAME WITH SILICON OR EDPM SEALING GASKET.

DRAIN TRAP SEALS SHALL BE PROSET TRAPGURARDS, RECTORSEAL SURESEALS OR JONES STEPHENS GREEN DRAIN SEALS.

<u>KITCHEN EQUIPMENT:</u> WHERE FIXTURES OF THIS DESIGNATION ARE INDICATED AND PROVIDE THE FOLLOWING:

SUPPLY INLET: 1/2-INCH NPS COPPER SUPPLY.

SUPPLY STOP: BALL VALVE.

SUPPLY RISER: RIGID COPPER SUPPLY, SIZE AS DETERMINED BY EQUIPMENT INLET.

DRAIN: CONNECT TO EQUIPMENT DRAIN OUTLET AND ROUTE DRAIN PIPING TO DRAIN RECEPTOR. USE DWV COPPER PIPING AND FITTINGS. MAKE INDIRECT CONNECTION AT DRAIN RECEPTOR UNLESS NOTED OTHERWISE.

HANDICAP ACCESSIBLE FIXTURES: WHERE HANDICAP ACCESSIBLE FIXTURES ARE INDICATED ON THE FLOOR PLAN, INSTALL FIXTURES IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

INSTALLATION: PIPING SHALL RUN TRUE, STRAIGHT, PLUMB AND PARALLEL WITH WALLS; ARRANGED AS REQUIRED TO PERMIT FREE, UNRESTRAINED, NOISE-LESS EXPANSION AND CONTRACTION. UNLESS OTHERWISE NOTED, SOIL, WASTE, DRAIN AND VENT PIPING SHALL BE CONCEALED IN WALLS, PIPE CHASES, OR SHAFTS WITH CLEAN-OUTS EXTENDED TO ACCESSIBLE LOCATIONS. ALL PLUMBING FIXTURES SHALL BE PROPERLY VENTED TO PREVENT

ELECTRICAL:

SIPHONING OF TRAPS.

VOLTAGE AND PHASE OF MECHANICAL EQUIPMENT REQUIRING POWER IS DESIGNATED UNDER THE ELECTRICAL DIVISION. MODEL NUMBERS LISTED IN MECHANICAL EQUIPMENT SCHEDULE SHALL NOT BE CONSTRUED TO INDICATE ELECTRICAL CHARACTERISTICS.

COORDINATE ALL ELECTRICAL SERVICE REQUIREMENTS FOR MECHANICAL EQUIPMENT PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. CONFIRM THE COMPATIBILITY OF ALL POWER SERVICES WITH THE EQUIPMENT BEING FURNISHED. CONFIRM COMPATIBILITY OF ELECTRICAL LUGS BEING PROVIDED BY THE EQUIPMENT MANUFACTURER WITH THE POWER WIRING BEING FURNISHED UNDER THE ELECTRICAL DIVISION. FURNISH WRITTEN DOCUMENTATION THAT ALL CHARACTERISTICS HAVE BEEN COORDINATED WITH AND CONFIRMED BY THE ELECTRICAL SUBCONTRACTOR.

PIPING IDENTIFICATION: PROVIDE PIPE IDENTIFICATION FOR PLUMBING PIPING.

<u>DISINFECTION OF PLUMBING PIPING:</u> SUBMIT STATEMENT FROM A TESTING LABORATORY THAT IS ACCEPTABLE TO LOCAL HEALTH DEPARTMENT THAT THE SPECIFIED DISINFECTION PROCEDURE HAS BEEN COMPLETED SATISFACTORILY.

OPERATING AND MAINTENANCE MANUALS: PROVIDE MANUAL CONTAINING OPERATING AND MAINTENANCE INSTRUCTIONS AS WELL AS WARRANTIES FOR PLUMBING EQUIPMENT SUCH AS WATER HEATERS, WATER COOLERS AND PUMPS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE CONN. BRANCH	VENT	COLD WATER	HOT WATER	RIM HGT.	BASIS OF DESIGN FIXTURE		
WC-1	WATER CLOSET	4" 4"	2"	1"	-	15"	AMERICAN STANDARD 2234 001, 5901: SEAT, ZURN ZEMS6000PL-HET-IS FL VAI		
WC-2	WATER CLOSET (A.D.A. ADULT)	4" 4"	2"	1"	-	18"	AMERICAN STANDARD 3043 001, 5901: SEAT, ZURN ZEMS6000PL-HET-IS FL VA		
UR-1	URINAL	2"	1-1/2"	1"	-	24"	AMERICAN STANDARD 6561.017 ZURN ZEMS6003AV-IS-EWS FL VALVE		
UR-2	URINAL (A.D.A. ADULT)	2"	1-1/2"	1"	-	17"	AMERICAN STANDARD 6561.017 ZURN ZEMS6003AV-IS-EWS FL VALVE		
LAV-1	LAVATORY (WALL HUNG)	1-1/4"	1-1/2"	1/2"	1/2"	APRON BOTTOM 29"	AMERICAN STANDARD 0355012, 7500 175 FAUCET, McGUIRE 155A GRID DRAIN		
	(A.D.A. ADULT)	_	4.4.611	4 (01)	4 (21)				
LAV-2	(UNDER MOUNT) (A.D.A. ADULT)	2"	1-1/2"	1/2"	1/2"	DECK	AMERICAN STANDARD 0614000.200, AMERICAN STANDARD 7722801.002 FAU McGUIRE 155WC GRID DRAIN		
LAV-3	LAVATORY (UNDER MOUNT)	1-1/4"	1-1/2"	1/2"	1/2"	DECK	AMERICAN STANDARD 0614200.200, AMERICAN STANDARD 7722801.002 FAUC McGUIRE 155A GRID DRAIN		
EWC	ELECTRIC WATER COOLER HI-LO A.D.A.	1-1/4"	1-1/2"	1/2"	-	APRON BOTTOM 27"	ELKAY EZSTL8WSSK W/ BOTTLE FILLER		
S-1	SINGLE SINK (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	DECK	JUST-ADA-1821-1-A, 18 GA AMERICAN STANDARD 6540278.002 FAUC		
		2"					McGUIRE 151WC DRAIN		
S-2	UTILITY SINK	3"	2"	1/2"	1/2"	-	ADVANCE TABCO T9-1-24-18R-X AMERICAN STANDARD 7298152 FAUCE		
S-3	SINGLE SINK (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	DECK	JUST US-ADA-1821-A,18GA AMERICAN STANDARD 7074300.002 FA		
S-4	SHAMPOO SINK	1-1/2"	1-1/2"	1/2"	1/2"	DECK	MARBLE PRODUCTS 2100 W/ PEDESTA (WHITE COLOR), INCL. MODEL 800 PUL FAUCET & 1701 HAIR TRAP		
SH-1	SHOWER (A.D.A.)	2"	1-1/2"	1/2"	1/2"	-	SYMMONS 1-25-FSB-X (MIXING VALVE & HAND SHOWER) SMITH 2005-94 DRAIN		
MPS	MOP SINK	3"	2"	1/2"	1/2"	FAUCET @ 36"	FIAT MSB 2424, 832-AA, 889-CC, MSG2424, CHICAGO 897-RCF FAUCET		
WMB	WASHING MACHINE BOX	2"	2"	1/2"	1/2"	36" A.F.	OATEY 38630		
MV	MIXING VALVE	-	-	1"	1"	-	POWERS LFIS150 RECIRC SYSTEM W/ B NBF 8S/LW PUMP, RATED FOR SYSTEM OF 15 GPM AT 5 FT HD MINIMUM		
CO-1	CLEANOUT	-	-	-	-	-	SMITH 4031		
CO-2	CLEANOUT (PLUG TYPE)	-	-	-	-	-	SMITH 4292		
FD-1	FLOOR DRAIN (GENERAL)	-	-	-	-	-	SMITH 2005L		
FD-2	FLOOR DRAIN (MECH.)	-	-	-	-		SMITH 2005L-F37-CI		
FS	FLOOR SINK	-	-	-	-		SMITH 3003 STAINLESS STEEL W/ 1/4 OPEN TOP GRATE		
WH	WALL HYDRANT	_	_	3/4"			WOODFORD 27		

PLUMBING FIXTURE SCHEDULE KEYNOTES

PROVIDE 7" STRAINER ON 3" DRAINS AND 9" STRAINER ON 4" DRAINS. PROVIDE ROUND TOP FOR ALL FLOOR DRAINS.

1 PROVIDE "TRUEBRO LAV GUARD" PROTECTIVE PIPE COVERS ON WASTE AND SUPPLY PIPING.

PROVIDE SMITH 700 SERIES CARRIER WHEN MOUNTED ON STUD WALL.

3 PROVIDE DRUM TRAP. SEE DRUM TRAP DETAIL.

5 RIM FLUSH WITH FINISHED FLOO

PROVIDE 6" BOWL DEPTH AND CENTER REAR DRAIN PUNCH.
 PROVIDE DRAIN TRAP SEAL DEVICE EQUAL TO MIFAB MI-GARD.

PLUMBING LEGEND

		¬	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WASTE OR SANITARY SEWER		COLD WATER
	VENT		HOT WATER
VTR _	VENT THRU ROOF		HOT WATER CIRCULATING
<u> </u>	SHUTOFF VALVE	—— G ——	GAS
₩	SHUTOFF VALVE IN RISER	PDI'X' <u></u>	WATER HAMMER ARRESTOR
I	CLEANOUT PLUG	wco >	WALL CLEANOUT

DOMESTIC HOT WATER RETURN DUMP SCHEDULE

	DOIVIESTIC HO	IVVAIER	KEIUKI	PUIVI	P SCHEDULE	
ITEM	SERVICE	FLOW RATE (GPM)	HEAD (FT)	НР	BASIS OF DESIGN MODEL NO.	
RP-1	CIRCULATING HOT WATER RETURN	2	13	1/12	B&G NBF-22B	(1)(2
RP-2	CIRCULATING HOT WATER RETURN	-	-	-	INTERGRAL TO MIXING VALVE	Ė

SCHEDIII E NOTES:

SCHEDULE NOTES:

(1) PROVIDE AQUASTAT EQUAL TO HONEYWELL L4006 SERIES & TIME CLOCK EQUAL TO INTERMATIC ET1125C SERIES.

(2) INCLUDE B&G CHECK-TROL ISOLATION VALVE WITH INTEGRAL CHECK VALVE AT PUMP DISCHARGE.

DOMESTIC WATER HEATER SCHEDULE

		DOIVI	LSTIC WAT	LNIILAI	LK SCITED	OLL	
ITEM	SOURCE	INPUT	RECOVERY (GPH @ 100F RISE)	STORAGE (GALLONS)	INLET/OUTLET (INCHES)	BASIS OF DESIGN MODEL NO.	
DWH-1	NATURAL GAS	199MBH	235	100	1-1/4	A.O. SMITH BTH-199 MXI	(1)

SCHEDULE NOTES:
(1) PROVIDE EXPANSION TANK EQUAL TO AMTROL ST-12 WITH 4.4 GAL ACCEPTANCE.



PLOT DATE: 02/16/22
FILE NAME: 21011 MECH
PLOT SCALE: 1 = 96







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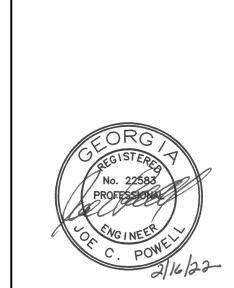
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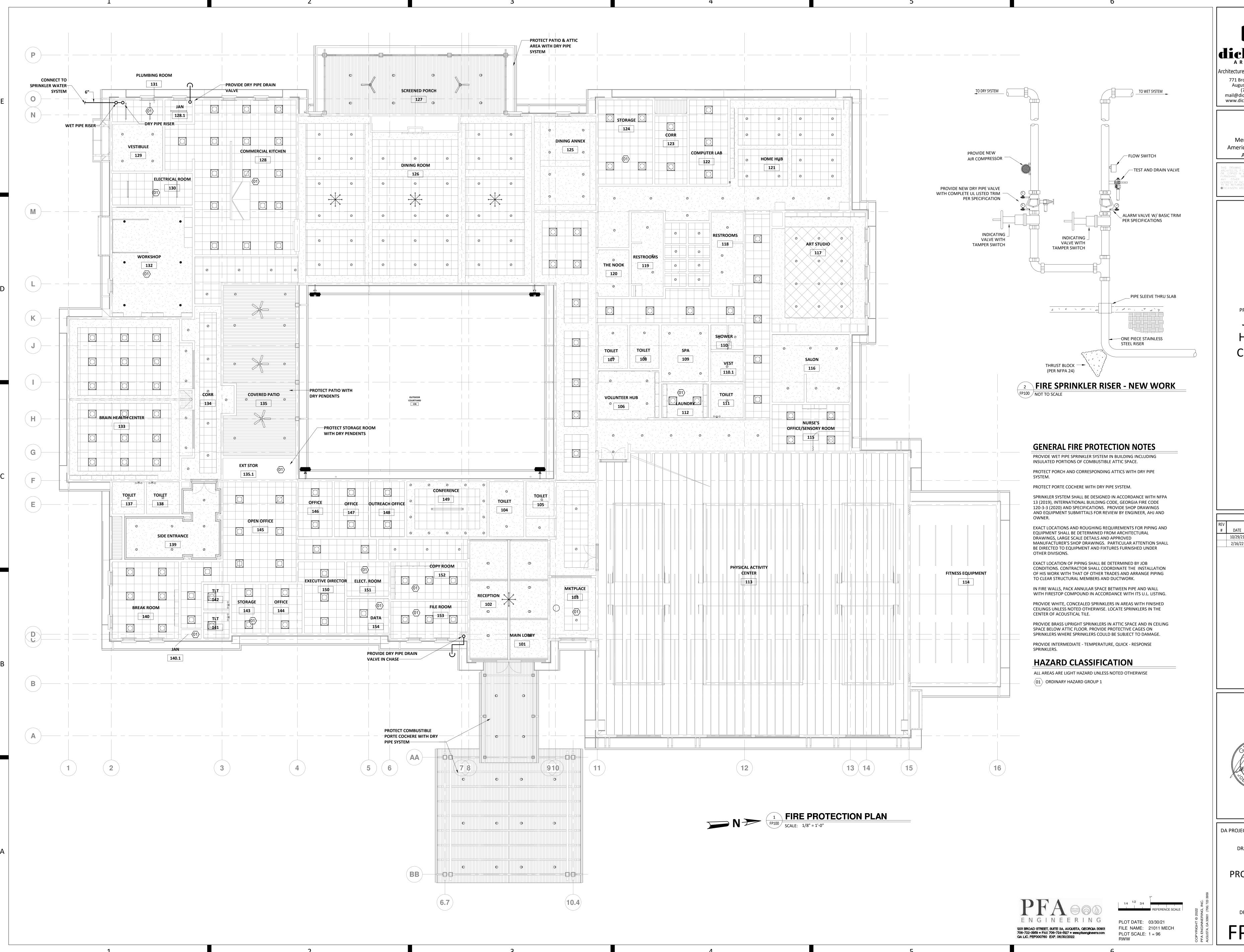
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SPECIFICATIONS

DRAWING NO:

P201 d



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PROTECTION
PLAN



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DA PROJECT NUMBER & NAME: 1893

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FIRE

PROTECTION

PLAN - ATTIC

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PART 3 - EXECUTION
 PART 1 - GENERAL
                                                                                                                                                                     3.1 PREPARATION
                                                                                                                                                                         A. PERFORM FIRE-HYDRANT FLOW TEST ACCORDING TO NFPA 13. USE RESULTS FOR SYSTEM DESIGN CALCULATIONS REQUIRED IN "QUALITY ASSURANCE" ARTICLE IN PART 1
   A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT APPLY TO THIS SECTION.
                                                                                                                                                                             OF THIS SECTION.
                                                                                                                                                                         B. REPORT TEST RESULTS PROMPTLY AND IN WRITING.
     A. THIS SECTION INCLUDES FIRE-SUPPRESSION PIPING AND EQUIPMENT FOR THE FOLLOWING BUILDING SYSTEMS:
         1. WET-PIPE, FIRE-SUPPRESSION SPRINKLERS, INCLUDING PIPING, VALVES, SPECIALTIES, AND AUTOMATIC SPRINKLERS.
                                                                                                                                                                     3.2 PIPING APPLICATIONS
         2. DRY-PIPE, FIRE-SUPPRESSION SPRINKLERS, INCLUDING PIPING, VALVES, SPECIALTIES, AUTOMATIC SPRINKLERS, AIR COMPRESSOR, AND ACCESSORIES.
                                                                                                                                                                         A. DO NOT USE WELDED JOINTS WITH GALVANIZED STEEL PIPE.
                                                                                                                                                                         B. FLANGES, UNIONS, AND TRANSITION AND SPECIAL FITTINGS WITH PRESSURE RATINGS THE SAME AS OR HIGHER THAN SYSTEM'S PRESSURE RATING MAY BE USED IN
1.3 DEFINITIONS
                                                                                                                                                                               ABOVEGROUND APPLICATIONS, UNLESS OTHERWISE INDICATED.
       WORKING PLANS: DOCUMENTS, INCLUDING DRAWINGS, CALCULATIONS, AND MATERIAL SPECIFICATIONS PREPARED ACCORDING TO NFPA 13 FOR OBTAINING APPROVAL
                                                                                                                                                                             UNDERGROUND SERVICE-ENTRANCE PIPING:
        FROM AUTHORITIES HAVING JURISDICTION.
                                                                                                                                                                                USE ONE-PIECE STAINLESS STEEL TRANSITION RISER.
    B. Q.R.: QUICK RESPONSE.
                                                                                                                                                                         D. WET-PIPE SPRINKLERS: USE THE FOLLOWING:
1.4 SYSTEM PERFORMANCE REQUIREMENTS
                                                                                                                                                                                NPS 2 AND SMALLER: SCHEDULE 40 STEEL PIPE WITH THREADED ENDS, CAST- OR MALLEABLE-IRON THREADED FITTINGS, AND THREADED JOINTS.
     A. DESIGN SPRINKLERS AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.
                                                                                                                                                                                NPS 1-1/2 AND LARGER: SCHEDULE 10 STEEL PIPE WITH ROLL-GROOVED ENDS; STEEL, GROOVED-END FITTINGS; AND GROOVED JOINTS.
     B. DESIGN SPRINKLER PIPING ACCORDING TO THE FOLLOWING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION:
                                                                                                                                                                                NPS 2-1/2 AND LARGER: SCHEDULE 10 STEEL PIPE WITH PLAIN ENDS, STEEL WELDING FITTINGS, AND WELDED JOINTS.
             INCLUDE 10 PSI MARGIN OF SAFETY FOR AVAILABLE WATER PRESSURE
                                                                                                                                                                         E. DRY-PIPE SPRINKLERS: USE THE FOLLOWING:
             INCLUDE LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.
                                                                                                                                                                                 NPS 2 AND SMALLER: GALVANIZED, SCHEDULE 40 STEEL PIPE WITH THREADED ENDS; CAST- OR MALLEABLE-IRON THREADED FITTINGS; AND THREADED JOINTS.
            SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS: AS FOLLOWS:
             a. BUILDING SERVICE AREAS: ORDINARY HAZARD, GROUP 1.
                                                                                                                                                                                 NPS 1-1/2 AND LARGER: GALVANIZED, SCHEDULE 10 STEEL PIPE WITH GROOVED ENDS; STEEL, GROOVED-END FITTINGS; STEEL, KEYED COUPLINGS; AND GROOVED
              b. ELECTRICAL EQUIPMENT ROOMS: ORDINARY HAZARD, GROUP 1
                GENERAL STORAGE AREAS: ORDINARY HAZARD, GROUP 1.
                                                                                                                                                                             3. NPS 2-1/2 AND LARGER: GALVANIZED, SCHEDULE 40 STEEL PIPE WITH THREADED ENDS; CAST- OR MALLEABLE-IRON THREADED FITTINGS; AND THREADED JOINTS.
                MECHANICAL EQUIPMENT ROOMS: ORDINARY HAZARD, GROUP 1
              e. OFFICE AND PUBLIC AREAS: LIGHT HAZARD.
              KITCHEN SERVICE AREAS: ORDINARY HAZARD, GROUP 1.
                                                                                                                                                                         A. DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:
        4. MINIMUM DENSITY FOR AUTOMATIC-SPRINKLER PIPING DESIGN: AS FOLLOWS:
             a. LIGHT-HAZARD OCCUPANCY: 0.10 GPM OVER 1500-SQ. FT. AREA. AREA MAY BE REDUCED AS PERMITTED BY NFPA 13.
                                                                                                                                                                             1. FIRE-PROTECTION-SERVICE VALVES: UL LISTED AND FM APPROVED FOR APPLICATIONS WHERE REQUIRED BY NFPA 13.
             b. ORDINARY-HAZARD, GROUP 1 OCCUPANCY: 0.15 GPM OVER 1500- SQ. FT. AREA. AREA MAY BE REDUCED AS PERMITTED BY NFPA 13.
                                                                                                                                                                                  a. SHUTOFF DUTY: USE GATE VALVES.
     C. COMPONENTS AND INSTALLATION: CAPABLE OF PRODUCING PIPING SYSTEMS WITH 175-PSIG MINIMUM WORKING-PRESSURE RATING, UNLESS OTHERWISE INDICATED.
                                                                                                                                                                                GENERAL-DUTY VALVES: FOR APPLICATIONS WHERE UL-LISTED AND FM-APPROVED VALVES ARE NOT REQUIRED BY NFPA 13.
                                                                                                                                                                                 a. SHUTOFF DUTY: USE GATE, BALL, OR BUTTERFLY VALVES.
1.5 SUBMITTALS
                                                                                                                                                                                 b. THROTTLING DUTY: USE GLOBE, BALL, OR BUTTERFLY VALVES.
     A. PRODUCT DATA: FOR THE FOLLOWING:
          PIPE AND FITTING MATERIALS AND METHODS OF JOINING FOR SPRINKLER PIPING.
                                                                                                                                                                     3.4 JOINT CONSTRUCTION
             PIPE HANGERS AND SUPPORTS.
            VALVES, INCLUDING SPECIALTY VALVES, ACCESSORIES, AND DEVICES.
                                                                                                                                                                         A. STEEL-PIPING, GROOVED JOINTS: USE SCHEDULE 40 STEEL PIPE WITH CUT OR ROLL-GROOVED ENDS AND SCHEDULE 30 OR THINNER STEEL PIPE WITH ROLL-GROOVED ENDS;
          4. ALARM DEVICES. INCLUDE ELECTRICAL DATA.
                                                                                                                                                                              STEEL, GROOVED-END FITTINGS; AND STEEL, KEYED COUPLINGS. ASSEMBLE JOINTS WITH COUPLINGS, GASKETS, LUBRICANT, AND BOLTS ACCORDING TO COUPLING
         5. AIR COMPRESSORS. INCLUDE ELECTRICAL DATA.
                                                                                                                                                                              MANUFACTURER'S WRITTEN INSTRUCTIONS. USE GASKETS LISTED FOR DRY-PIPE SERVICE FOR DRY PIPING.

    SPRINKLERS, ESCUTCHEONS, AND GUARDS. INCLUDE SPRINKLER FLOW CHARACTERISTICS, MOUNTING, FINISH, AND OTHER PERTINENT DATA.

                                                                                                                                                                         B. DISSIMILAR-PIPING-MATERIAL JOINTS: CONSTRUCT JOINTS USING ADAPTERS OR COUPLINGS COMPATIBLE WITH BOTH PIPING MATERIALS. USE DIELECTRIC FITTINGS IF
     B. FIRE-HYDRANT FLOW TEST REPORT: AS SPECIFIED IN "PREPARATION" ARTICLE.
                                                                                                                                                                             BOTH PIPING MATERIALS ARE METAL.
       APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA 13, THAT HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION.
         INCLUDE HYDRAULIC CALCULATIONS, IF APPLICABLE,
                                                                                                                                                                     3.5 SERVICE-ENTRANCE PIPING
     D. FIELD TEST REPORTS AND CERTIFICATES: INDICATE AND INTERPRET TEST RESULTS FOR COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND AS DESCRIBED IN NFPA 13.
                                                                                                                                                                         A. CONNECT SPRINKLER PIPING TO WATER-SERVICE PIPING OF SIZE AND IN LOCATION INDICATED FOR SERVICE ENTRANCE TO BUILDING
         INCLUDE "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING" AND "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND
                                                                                                                                                                         B. INSTALL SHUTOFF VALVE, CHECK VALVE, PRESSURE GAGE, DRAIN, AND OTHER ACCESSORIES AT CONNECTION TO WATER SERVICE.
    E. MAINTENANCE DATA: FOR EACH TYPE OF SPRINKLER SPECIALTY TO INCLUDE IN MAINTENANCE MANUAL.
                                                                                                                                                                            CONNECTION TO THE INTERIOR SPRINKLER SYSTEM IS TO BE DONE AFTER THE UNDERGROUND FIRE SERVICE MAINS HAVE BEEN FLUSHED AND TESTED IN ACCORDANCE WITH
                                                                                                                                                                             NFPA 24.
1.6 QUALITY ASSURANCE
      4. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS DESIGNED AND INSTALLED FIRE-SUPPRESSION PIPING SIMILAR TO THAT INDICATED FOR THIS PROJECT
                                                                                                                                                                     3.6 PIPING INSTALLATION
         AND OBTAINED DESIGN APPROVAL AND INSPECTION APPROVAL FROM AUTHORITIES HAVING JURISDICTION.
                                                                                                                                                                         A. REFER TO OTHER DIVISION 21 SECTIONS FOR BASIC PIPING INSTALLATION.
     B. MANUFACTURER QUALIFICATIONS: FIRMS WHOSE EQUIPMENT, SPECIALTIES, AND ACCESSORIES ARE LISTED BY PRODUCT NAME AND MANUFACTURER IN UL'S "FIRE
                                                                                                                                                                         B. LOCATIONS AND ARRANGEMENTS: DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING. INSTALL PIPING AS
         PROTECTION EQUIPMENT DIRECTORY" AND FM'S "FIRE PROTECTION APPROVAL GUIDE" AND THAT COMPLY WITH OTHER REQUIREMENTS INDICATED.
      SPRINKLER COMPONENTS: LISTING/APPROVAL STAMP, LABEL, OR OTHER MARKING BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
                                                                                                                                                                                 DEVIATIONS FROM APPROVED WORKING PLANS FOR PIPING REQUIRE WRITTEN APPROVAL FROM AUTHORITIES HAVING JURISDICTION. FILE WRITTEN APPROVAL WITH
     D. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES
                                                                                                                                                                                   THE DESIGN PROFESSIONAL BEFORE DEVIATING FROM APPROVED WORKING PLANS.
                                                                                                                                                                             INSTALL UNDERGROUND SERVICE-ENTRANCE PIPING ACCORDING TO NFPA 24.
    E. NFPA STANDARDS: EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION, AND TESTING COMPLYING WITH THENFPA 13.
                                                                                                                                                                          D. USE APPROVED FITTINGS TO MAKE CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.
1.7 EXTRA MATERIALS
                                                                                                                                                                         E. INSTALL UNIONS ADJACENT TO EACH VALVE IN PIPES NPS 2 AND SMALLER. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES OR IN PIPING INSTALLATIONS USING
     A. FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED
         WITH LABELS DESCRIBING CONTENTS
                                                                                                                                                                            INSTALL FLANGES OR FLANGE ADAPTERS ON VALVES, APPARATUS, AND EQUIPMENT HAVING NPS 2-1/2 AND LARGER CONNECTIONS.
         1. SPRINKLER CABINETS: FINISHED, WALL-MOUNTING STEEL CABINET AND HINGED COVER, WITH SPACE FOR A MINIMUM OF SIX SPARE SPRINKLERS PLUS SPRINKLER
                                                                                                                                                                            INSTALL "INSPECTOR'S TEST CONNECTIONS" IN SPRINKLER PIPING, COMPLETE WITH SHUTOFF VALVE, SIZED AND LOCATED ACCORDING TO NFPA 13.
             WRENCH. INCLUDE THE NUMBER OF SPRINKLERS REQUIRED BY NFPA 13 AND WRENCH FOR SPRINKLERS. INCLUDE SEPARATE CABINET WITH SPRINKLERS AND WRENCH
                                                                                                                                                                           H. INSTALL SPRINKLER PIPING WITH DRAINS FOR COMPLETE SYSTEM DRAINAGE.
             FOR EACH TYPE OF SPRINKLER ON PROJECT.
                                                                                                                                                                             INSTALL PRESSURE RELIEF VALVES. ROUTE PRESSURE RELIEF VALVE OUTLET TO SYSTEM DRAIN PIPING.
                                                                                                                                                                             INSTALL ALARM DEVICES IN PIPING SYSTEMS.
 PART 2 - PRODUCTS
                                                                                                                                                                            HANGERS AND SUPPORTS: COMPLY WITH NFPA 13 FOR HANGER MATERIALS. INSTALL ACCORDING TO NFPA 13 FOR SPRINKLER PIPING.
                                                                                                                                                                             INSTALL PIPING WITH GROOVED JOINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. CONSTRUCT RIGID PIPING JOINTS. UNLESS OTHERWISE INDICATED.
                                                                                                                                                                           {
m M}_{\cdot\cdot} INSTALL FLEXIBLE STAINLESS-STEEL TUBING SYSTEMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
    A. REFER TO PART 3 "PIPING APPLICATIONS" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, FITTING, AND JOINING MATERIALS.
                                                                                                                                                                         N. INSTALL PRESSURE GAGES ON RISER OR FEED MAIN, AT EACH SPRINKLER TEST CONNECTION, AND AT TOP OF EACH STANDPIPE. INCLUDE PRESSURE GAGES WITH
                                                                                                                                                                              CONNECTION NOT LESS THAN NPS 1/4 (DN8) AND WITH SOFT METAL SEATED GLOBE VALVE, ARRANGED FOR DRAINING PIPE BETWEEN GAGE AND VALVE. INSTALL GAGES
2.2 PIPES AND TUBES
        STAINLESS STEEL TRANSITION RISER: TYPE 304 STAINLESS-STEEL PIPE; UL AND FM APPROVED FOR FIRE SERVICE.
                                                                                                                                                                               TO PERMIT REMOVAL AND INSTALL WHERE THEY WILL NOT BE SUBJECT TO FREEZING.
     B. STANDARD-WEIGHT STEEL PIPE: ASTM A 53, ASTM A 135, OR ASTM A 795; SCHEDULE 40 IN NPS 2 (DN150) AND SMALLER.
                                                                                                                                                                         O. INSTALL AUTOMATIC AIR VENTING DEVICE AT HIGH POINT OF WET PIPE SPRINKLER SYSTEMS.
     C. SCHEDULE 10 STEEL PIPE: ASTM A 135 OR ASTM A 795, SCHEDULE 10 IN NPS 2-1/2 AND LARGER.
     D. STAINLESS STEEL TUBING: UL LISTED, ONE-PIECE FLEXIBLE TUBING SYSTEM. SYSTEM ASSEMBLY SHALL INCLUDE COUPLINGS AND CEILING GRID MOUNTING HARDWARE;
                                                                                                                                                                     3.7 SPECIALTY SPRINKLER FITTING INSTALLATION
         PIPING ASSEMBLY SHALL BE DESIGNED FOR CONNECTING BRANCH PIPING TO SPRINKLERS AND MOUNTING SPRINKLERS IN CEILING.
                                                                                                                                                                         A. INSTALL SPECIALTY SPRINKLER FITTINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS
2.3 PIPE AND TUBE FITTINGS
                                                                                                                                                                     3.8 VALVE INSTALLATION

    CAST-IRON THREADED FLANGES: ASME B16.1.

                                                                                                                                                                            INSTALL FIRE-PROTECTION SPECIALTY VALVES, TRIM, FITTINGS, CONTROLS, AND SPECIALTIES ACCORDING TO NFPA 13, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND
        CAST-IRON THREADED FITTINGS: ASME B16.4.
        MALLEABLE-IRON THREADED FITTINGS: ASME B16.3.
                                                                                                                                                                               AUTHORITIES HAVING JURISDICTION.
     D. STEEL, THREADED COUPLINGS: ASTM A 865.
                                                                                                                                                                         B. GATE VALVES: INSTALL FIRE-PROTECTION-SERVICE VALVES SUPERVISED-OPEN, LOCATED TO CONTROL SOURCES OF WATER SUPPLY. PROVIDE PERMANENT IDENTIFICATION
                                                                                                                                                                              SIGNS INDICATING PORTION OF SYSTEM CONTROLLED BY EACH VALVE.
     E. STEEL WELDING FITTINGS: ASTM A 234/A 234M, ASME B16.9, OR ASME B16.11.
     F. STEEL FLANGES AND FLANGED FITTINGS: ASME B16.5.
                                                                                                                                                                            ALARM CHECK VALVES: INSTALL VALVES IN VERTICAL POSITION FOR PROPER DIRECTION OF FLOW, INCLUDING BYPASS CHECK VALVE AND RETARD CHAMBER DRAIN-LINE
     G. STEEL, GROOVED-END FITTINGS: UL-LISTED AND FM-APPROVED, ASTM A 47 (ASTM A 47M), MALLEABLE IRON OR ASTM A 536, DUCTILE IRON; WITH DIMENSIONS MATCHING
         STEEL PIPE AND ENDS FACTORY GROOVED ACCORDING TO AWWA C606.
                                                                                                                                                                         D. DRY-PIPE VALVES: INSTALL TRIM SETS FOR AIR SUPPLY, DRAIN, PRIMING LEVEL, ALARM CONNECTIONS, BALL DRIP VALVES, PRESSURE GAGES, PRIMING CHAMBER
                                                                                                                                                                             ATTACHMENT. AND FILL-LINE ATTACHMENT.
2.4 JOINING MATERIALS
                                                                                                                                                                             1. AIR-PRESSURE MAINTENANCE DEVICES FOR DRY-PIPE SYSTEMS: INSTALL SHUTOFF VALVES TO PERMIT SERVICING WITHOUT SHUTTING DOWN SPRINKLER SYSTEM;
        STEEL, KEYED COUPLINGS: UL 213 AND AWWA C606, FOR STEEL-PIPE DIMENSIONS. INCLUDE ASTM A 536, DUCTILE-IRON HOUSING, RUBBER GASKETS, AND STEEL BOLTS
                                                                                                                                                                                  BYPASS VALVE FOR QUICK SYSTEM FILLING; PRESSURE REGULATOR OR SWITCH TO MAINTAIN SYSTEM PRESSURE; STRAINER; PRESSURE RATINGS WITH 14- TO 60-PSIG
         AND NUTS. INCLUDE LISTING FOR DRY-PIPE SERVICE FOR COUPLINGS FOR DRY PIPING.
                                                                                                                                                                                   ADJUSTABLE RANGE; AND 175-PSIG MAXIMUM INLET PRESSURE.
     B. TRANSITION COUPLINGS: AWWA C219, SLEEVE TYPE, OR OTHER MANUFACTURED FITTING THE SAME SIZE AS, WITH PRESSURE RATING AT LEAST EQUAL TO, AND WITH ENDS
                                                                                                                                                                                 INSTALL AIR COMPRESSOR AND COMPRESSED-AIR SUPPLY PIPING.
        COMPATIBLE WITH PIPING TO BE JOINED.
                                                                                                                                                                     3.9 SPRINKLER APPLICATIONS
2.5 GENERAL-DUTY VALVES
    A. REFER TO OTHER DIVISION 21 SECTIONS FOR GATE, BALL, BUTTERFLY, GLOBE, AND CHECK VALVES NOT REQUIRED TO BE ULLISTED AND FM APPROVED.
                                                                                                                                                                         A. GENERAL: USE SPRINKLERS ACCORDING TO THE FOLLOWING APPLICATIONS:
                                                                                                                                                                                 ROOMS WITHOUT CEILINGS: Q.R. BRASS UPRIGHT SPRINKLERS.
2.6 FIRE-PROTECTION-SERVICE VALVES
                                                                                                                                                                                  ROOMS WITH SUSPENDED CEILINGS: Q.R. WHITE CONCEALED SPRINKLERS.
     A. GENERAL: UL LISTED AND FM APPROVED, WITH MINIMUM 175-PSIG NON-SHOCK WORKING-PRESSURE RATING. VALVES FOR GROOVED-END PIPING MAY BE FURNISHED
                                                                                                                                                                                 WALL MOUNTING: Q.R. WHITE SIDEWALL SPRINKLERS.
         WITH GROOVED ENDS INSTEAD OF TYPE OF ENDS SPECIFIED
                                                                                                                                                                                SPACES SUBJECT TO FREEZING: Q.R. UPRIGHT; PENDENT, DRY-TYPE; AND SIDEWALL, DRY-TYPE SPRINKLERS.
     B. GATE VALVES, NPS 2 AND SMALLER: UL 262; CAST-BRONZE, THREADED ENDS; SOLID WEDGE; OS&Y; AND RISING STEM.
                                                                                                                                                                             5. SPRINKLER FINISHES: USE SPRINKLERS WITH THE FOLLOWING FINISHES:
        1. INDICATOR: ELECTRICAL, PREWIRED, SUPERVISORY SWITCH. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM.
                                                                                                                                                                                 a. UPRIGHT SPRINKLERS: ROUGH BRONZE IN UNFINISHED SPACES NOT EXPOSED TO VIEW. PROVIDE SPRINKLER GUARDS WHERE SPRINKLERS COULD BE SUBJECTED
     C. INDICATING VALVES, NPS 2-1/2 AND SMALLER: UL 1091; BUTTERFLY OR BALL-TYPE, BRONZE BODY WITH THREADED ENDS; AND INTEGRAL INDICATING DEVICE.
          INDICATOR: ELECTRICAL, PREWIRED, SUPERVISORY SWITCH. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM.
                                                                                                                                                                                 b. EXTERIOR PENDENT AND SIDEWALL SPRINKLERS: CORROSION-RESISTANT PAINT.
     D. GATE VALVES, NPS 2-1/2 AND LARGER: UL 262, IRON BODY, BRONZE MOUNTED, TAPER WEDGE, OS&Y, AND RISING STEM. INCLUDE REPLACEABLE, BRONZE, WEDGE FACING
         RINGS AND FLANGED ENDS.
                                                                                                                                                                                  c. CONCEALED SPRINKLERS: ROUGH BRASS, WITH FACTORY-PAINTED WHITE COVER PLATE.
         1. INDICATOR: ELECTRICAL, PREWIRED, SUPERVISORY SWITCH. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM.
                                                                                                                                                                                 d. SIDEWALL SPRINKLERS: WHITE WITH WHITE ESCUTCHEON.
     E. SWING CHECK VALVES, NPS 2 AND SMALLER: UL 312 OR MSS SP-80, CLASS 150; BRONZE BODY WITH BRONZE DISC AND THREADED ENDS.
     F. SWING CHECK VALVES, NPS 2-1/2 AND LARGER: UL 312, CAST-IRON BODY AND BOLTED CAP, WITH BRONZE DISC OR CAST-IRON DISC WITH BRONZE-DISC RING AND
                                                                                                                                                                     3.10 SPRINKLER INSTALLATION
        FLANGED ENDS.
                                                                                                                                                                         A. INSTALL SPRINKLERS IN SUSPENDED CEILINGS IN CENTER OF ACOUSTICAL PANELS AND TILES.
                                                                                                                                                                         B. DO NOT INSTALL PENDENT OR SIDEWALL, WET-TYPE SPRINKLERS IN AREAS SUBJECT TO FREEZING. USE DRY-TYPE SPRINKLERS WITH WATER SUPPLY FROM HEATED SPACE.
2.7 SPECIALTY VALVES
     A. ALARM CHECK VALVES: UL 193, 175-PSIG WORKING PRESSURE; DESIGNED FOR HORIZONTAL OR VERTICAL INSTALLATION, WITH CAST-IRON FLANGED INLET AND OUTLET,
         BRONZE GROOVED SEAT WITH O-RING SEALS, AND SINGLE-HINGE PIN AND LATCH DESIGN. INCLUDE TRIM SETS FOR BYPASS, DRAIN, ELECTRIC SPRINKLER ALARM SWITCH
                                                                                                                                                                     3.11 CONNECTIONS
         AND PRESSURE GAGES.
                                                                                                                                                                         A. CONNECT WATER SUPPLIES TO SPRINKLERS.
          OPTION: GROOVED-END CONNECTIONS FOR USE WITH KEYED COUPLINGS.
                                                                                                                                                                         B. CONNECT PIPING TO SPECIALTY VALVES, HOSE VALVES, SPECIALTIES, FIRE DEPARTMENT CONNECTIONS, AND ACCESSORIES.
         2. ALARM VALVES WITH INTEGRAL INSPECTOR TEST, DRAIN AND PRESSURE RELIEF ASSEMBLIES ARE ACCEPTABLE.
                                                                                                                                                                         C. ELECTRICAL CONNECTIONS: POWER WIRING IS SPECIFIED IN ELECTRICAL DIVISION.
     B. DRY-PIPE VALVES: UL 260; DIFFERENTIAL TYPE; 175-PSIG WORKING PRESSURE; WITH CAST-IRON FLANGED INLET AND OUTLET, BRONZE SEAT WITH O-RING SEALS, AND
                                                                                                                                                                         D. CONNECT ALARM DEVICES TO FIRE ALARM.
         SINGLE-HINGE PIN AND LATCH DESIGN. INCLUDE UL 1486, QUICK-OPENING DEVICES, TRIM SETS FOR AIR SUPPLY, DRAIN, PRIMING LEVEL, ALARM CONNECTIONS, BALL DRIP
         VALVES, PRESSURE GAGES, PRIMING CHAMBER ATTACHMENT, AND FILL-LINE ATTACHMENT.
                                                                                                                                                                         E. CONNECT COMPRESSED-AIR SUPPLY TO DRY-PIPE SPRINKLER PIPING.
          OPTION: GROOVED-END CONNECTIONS FOR USE WITH KEYED COUPLINGS.
                                                                                                                                                                         F. CONNECT AIR COMPRESSOR TO THE FOLLOWING PIPING AND WIRING:
          AIR-PRESSURE MAINTENANCE DEVICES: AUTOMATIC DEVICE TO MAINTAIN CORRECT AIR PRESSURE IN PIPING. INCLUDE SHUTOFF VALVES TO PERMIT SERVICING
                                                                                                                                                                                 PRESSURE GAGES AND CONTROLS.
             WITHOUT SHUTTING DOWN SPRINKLER PIPING, BYPASS VALVE FOR QUICK FILLING, PRESSURE REGULATOR OR SWITCH TO MAINTAIN PRESSURE, STRAINER, PRESSURE
                                                                                                                                                                                  ELECTRICAL POWER SYSTEM.
             RATINGS WITH 14- TO 60-PSIG ADJUSTABLE RANGE, AND 175-PSIG MAXIMUM INLET PRESSURE.
                                                                                                                                                                                FIRE ALARM SYSTEM DEVICES, INCLUDING LOW-PRESSURE ALARM.
        3. AIR COMPRESSOR: UL 1450 LISTED; 120-V AC, 60 HZ, SINGLE PHASE.
                                                                                                                                                                      3.12 LABELING AND IDENTIFICATION
2.8 SPRINKLERS
     A. AUTOMATIC SPRINKLERS: WITH HEAT-RESPONSIVE ELEMENT COMPLYING WITH UL199.
                                                                                                                                                                         A. INSTALL LABELING AND PIPE MARKERS ON EQUIPMENT AND PIPING ACCORDING TO REQUIREMENTS IN NFPA 13.
2.9 SPECIALTY SPRINKLER FITTINGS
                                                                                                                                                                     3.13 FIELD QUALITY CONTROL
     A. SPECIALTY FITTINGS: UL LISTED AND FM APPROVED; MADE OF STEEL, DUCTILE IRON, OR OTHER MATERIALS COMPATIBLE WITH PIPING.
                                                                                                                                                                         A. FLUSH, TEST, AND INSPECT SPRINKLER PIPING ACCORDING TO NFPA 13.
    B. DRY-PIPE-SYSTEM FITTINGS: UL LISTED FOR DRY-PIPE SERVICE.
                                                                                                                                                                         B. REPLACE PIPING SYSTEM COMPONENTS THAT DO NOT PASS TEST PROCEDURES AND RETEST TO DEMONSTRATE COMPLIANCE. REPEAT PROCEDURE UNTIL SATISFACTORY
                                                                                                                                                                              RESULTS ARE OBTAINED.
 2.10 SPRINKLER INSPECTOR'S TEST FITTINGS WITH INTEGRAL PRESSURE RELIEF AND DRAIN
                                                                                                                                                                            REPORT TEST RESULTS PROMPTLY AND IN WRITING TO THE DESIGN PROFESSIONAL AND AUTHORITIES HAVING JURISDICTION.
     A. STANDARD: UL OR FM GLOBAL, LISTING. NFPA 13.
     B. PRESSURE RATING: 300 PSIG.
        BODY MATERIAL: BRONZE BODY, BRASS STEM, STEEL HANDLE, CHROME-PLATED BRONZE BALL, VIRGIN TEFLON VALVE SEAT.
                                                                                                                                                                     3.14 CLEANING

    D. SIGHT GLASS: BRONZE HOUSING WITH VIEWING WINDOW.

                                                                                                                                                                         A. CLEAN DIRT AND DEBRIS FROM SPRINKLERS. WHERE ADHESIVE MATERIALS SUCH AS PAINT AND DRYWALL MUD HAVE ADHERED TO SPRINKLERS, THEY SHALL BE REPLACED
     E. COMPONENTS: A TAMPER RESISTANT TEST ORIFICE AND A TAPPED PORT FOR SYSTEM ACCESS.
     F. PRESSURE RELIEF VALVE AND DRAINAGE PIPING:
                                                                                                                                                                         B. REMOVE AND REPLACE SPRINKLERS HAVING PAINT OTHER THAN FACTORY FINISH.
           BODY MATERIAL: BRONZE BODY AND STAINLESS-STEEL SPRING.
            COMPONENTS: NYLOBRAID FLEXIBLE TUBE, ONE 1/2 INCH NPT BY BARBED 90 DEGREE ELBOW, ONE 1/2 NPT BY BARBED STRAIGHT ADAPTER, EXTERNAL IDENTIFICATION
                                                                                                                                                                     3.15 PROTECTION
             PLATE AND INTEGRAL FLUSHING HANDLE TO REMOVE DEBRIS
                                                                                                                                                                        A. PROTECT SPRINKLERS FROM DAMAGE UNTIL MATERIAL COMPLETION.
         3. ½-INCH MIPT INLET, 1/2 INCH FIPT OUTLET.
          4. RELIEF PRESSURE SHALL BE FACTORY SET TO PROJECT SPECIFICATIONS.
            RELIEF VALVE SHALL OPERATE TO THE OPEN POSITION BETWEEN 90% AND 105% OF THE SET PRESSURE.
                                                                                                                                                                     3.16 COMMISSIONING
         6. RELIEF VALVE SHALL RESEAT OR CLOSE AT A MINIMUM OF 80% OF SET PRESSURE.
                                                                                                                                                                         A. VERIFY THAT SPECIALTY VALVES, TRIM, FITTINGS, CONTROLS, AND ACCESSORIES ARE INSTALLED AND OPERATE CORRECTLY.
     G. SIZE: F.I.P.T., SAME AS CONNECTED PIPING.
                                                                                                                                                                         B. VERIFY THAT AIR COMPRESSORS AND THEIR ACCESSORIES ARE INSTALLED AND OPERATE CORRECTLY.
    H. INLET AND OUTLET: THREADED.
                                                                                                                                                                            VERIFY THAT SPECIFIED TESTS OF PIPING ARE COMPLETE.
                                                                                                                                                                          D. VERIFY THAT DAMAGED SPRINKLERS AND SPRINKLERS WITH PAINT OR COATING NOT SPECIFIED ARE REPLACED WITH NEW, CORRECT TYPE.
 2.11 ALARM DEVICES
                                                                                                                                                                         E. VERIFY THAT SPRINKLERS ARE CORRECT TYPES, HAVE CORRECT FINISHES AND TEMPERATURE RATINGS, AND HAVE GUARDS AS REQUIRED FOR EACH APPLICATION.
       GENERAL: TYPES MATCHING PIPING AND EQUIPMENT CONNECTIONS.
     B. ELECTRICALLY OPERATED ALARM BELL:
                                                                                                                                                                            DRAIN DRY-PIPE SPRINKI FR PIPING.
             STANDARD: UL464
                                                                                                                                                                          G. PRESSURIZE AND CHECK DRY-PIPE SPRINKLER PIPING AIR-PRESSURE MAINTENANCE DEVICES AND AIR COMPRESSORS.
             TYPE: VIBRATING, METAL ALARM BELL.
                                                                                                                                                                         H. FILL WET-PIPE SPRINKLER PIPING WITH WATER.
             SIZE: 6-INCH MINIMUM DIAMETER.
                                                                                                                                                                             ENERGIZE CIRCUITS TO ELECTRICAL EQUIPMENT AND DEVICES.
         4. FINISH: RED-ENAMEL FACTORY FINISH, SUITABLE FOR OUTDOOR USE.
                                                                                                                                                                             START AND RUN AIR COMPRESSORS.
      WATER-FLOW INDICATORS: UL 346; ELECTRICAL-SUPERVISION, VANE-TYPE WATER-FLOW DETECTOR; WITH 250-PSIG PRESSURE RATING; AND DESIGNED FOR HORIZONTAL
                                                                                                                                                                           ADJUST OPERATING CONTROLS AND PRESSURE SETTINGS.
         OR VERTICAL INSTALLATION. INCLUDE TWO SINGLE-POLE, DOUBLE-THROW, CIRCUIT SWITCHES FOR ISOLATED ALARM AND AUXILIARY CONTACTS, 7 A, 125-V AC AND 0.25 A,
         24-V DC; COMPLETE WITH FACTORY-SET, FIELD-ADJUSTABLE RETARD ELEMENT TO PREVENT FALSE SIGNALS AND TAMPERPROOF COVER THAT SENDS SIGNAL IF REMOVED.
                                                                                                                                                                         L. COORDINATE WITH FIRE ALARM TESTS. OPERATE AS REQUIRED.
     D. PRESSURE SWITCHES: UL 753; ELECTRICAL-SUPERVISION-TYPE, WATER-FLOW SWITCH WITH RETARD FEATURE. INCLUDE SINGLE-POLE, DOUBLE-THROW, NORMALLY CLOSED
        CONTACTS AND DESIGN THAT OPERATES ON RISING PRESSURE AND SIGNALS WATER FLOW.
                                                                                                                                                                      3.17 DEMONSTRATION
                                                                                                                                                                         A. DEMONSTRATE EQUIPMENT, SPECIALTIES, AND ACCESSORIES. REVIEW OPERATING AND MAINTENANCE INFORMATION.
 2.12 PRESSURE GAGES
                                                                                                                                                                         B. SCHEDULE DEMONSTRATION WITH OWNER WITH AT LEAST SEVEN DAYS' ADVANCE NOTICE.
   A. PRESSURE GAGES: UL 393, 3-1/2- TO 4-1/2-INCH DIAMETER DIAL WITH DIAL RANGE OF 0 TO 250 PSIG.
2.13 AIR VENTING DEVICE
 PRODUCT DATA SHEET 0 -
    A. PRODUCT: DEVICE WHICH AUTOMATICALLY VENTS AIR FROM WET PIPE SPRINKLER SYSTEM..
        1. STANDARD: UL OR FM GLOBAL, LISTING. NFPA 13.
         2. PRESSURE RATING: 300 PSIG, 175 PSI FOR AIR VENT.
         3. BODY MATERIAL: FORGED BRASS BODY.
        4. COMPONENTS: BALL VALVE, STAINLESS STEEL STRAINER, PURGE VALVE WITH HOSE CONNECTION, THREAD CAP WITH LANYARD, AUTOMATIC AIR VENT.
```

SPECIFICATIONS PLOT DATE: 03/30/21 FILE NAME: 21011 MECH PLOT SCALE: 1 = 96

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DRAWING NO:

DA PROJECT NUMBER & NAME:

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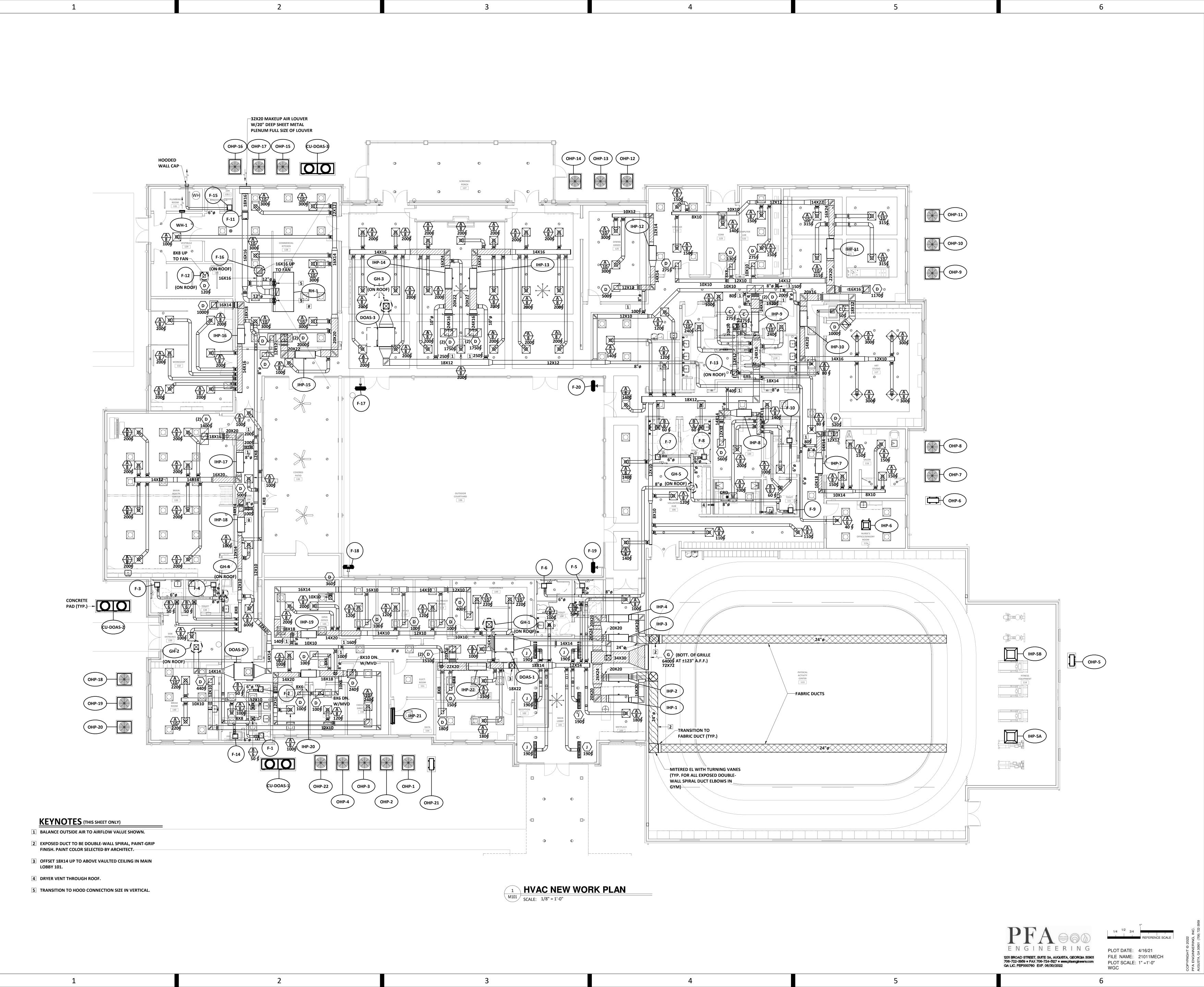
American Institute of

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PROJECT TITLE:

2/16/22 | JMF | ISSUE FOR PERMIT

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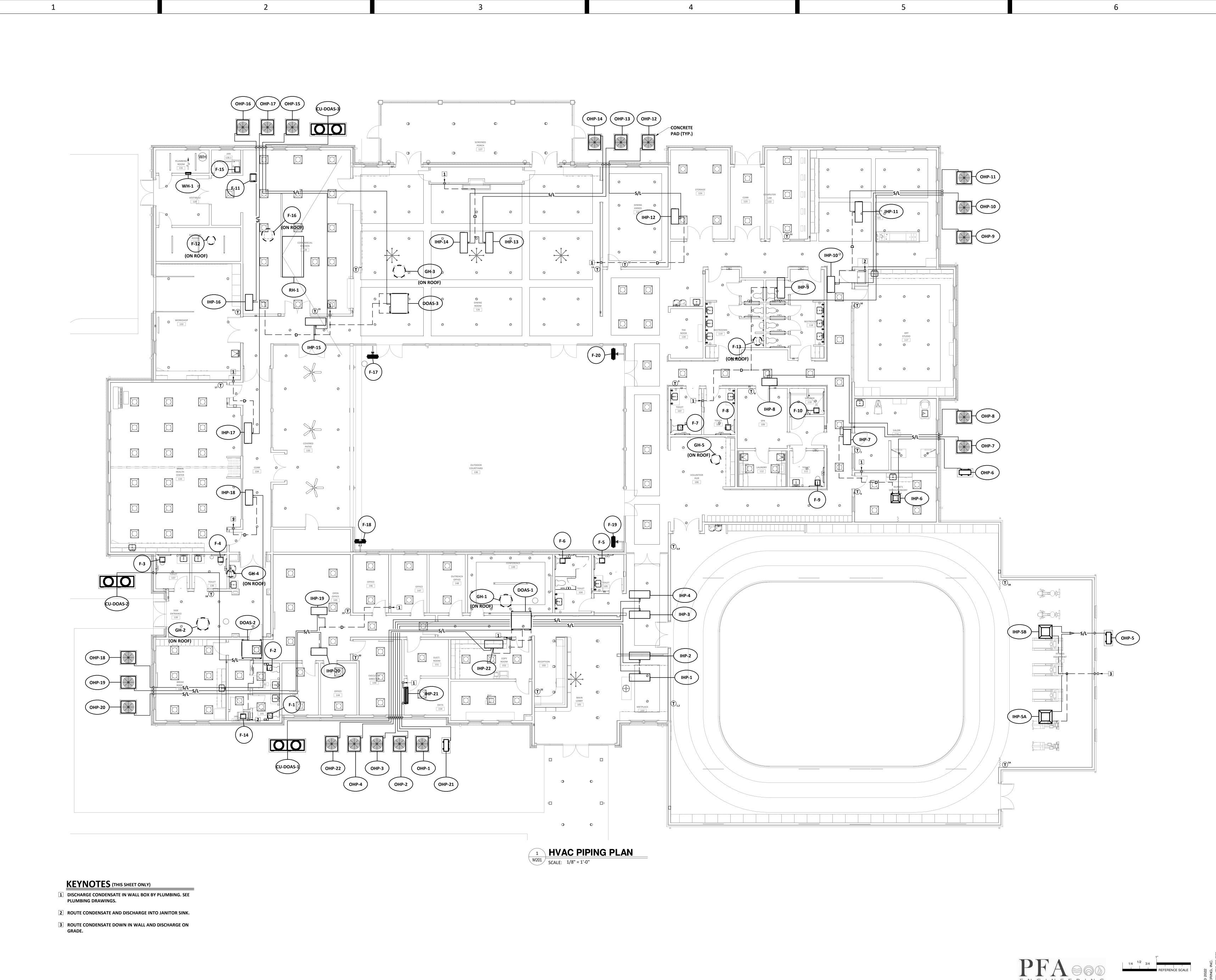


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1893
DRAWING TITLE:
HVAC PLAN



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DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

HVAC PIPING

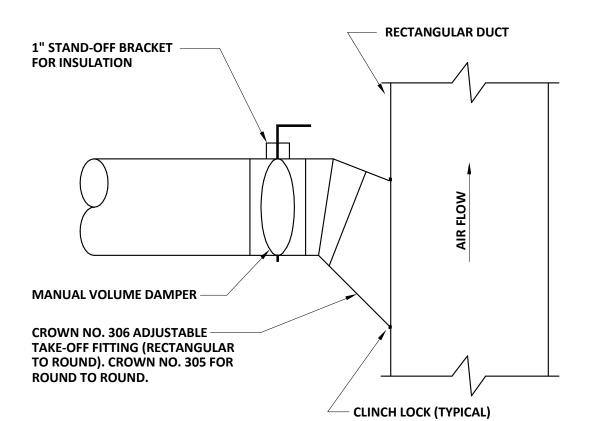
PLAN

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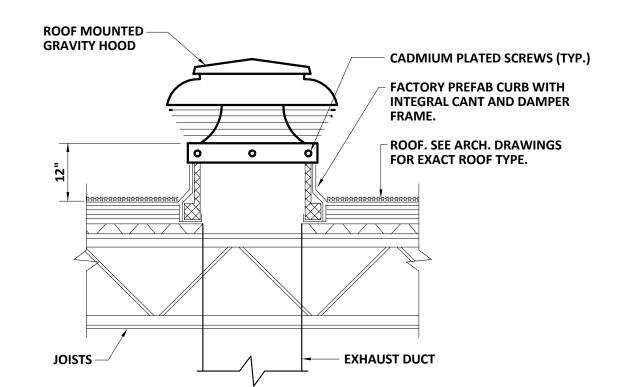
1201 BROAD STREET, SUITE 3A, AUGUSTA, QEORQIA 30901 706-722-3959 • FAX 706-724-5127 • www.pfaengineers.com QA LIC. PEF000760 EXP. 06/30/2022 FILE NAME: 21011MECH PLOT SCALE: 1" =1'-0"

WGC

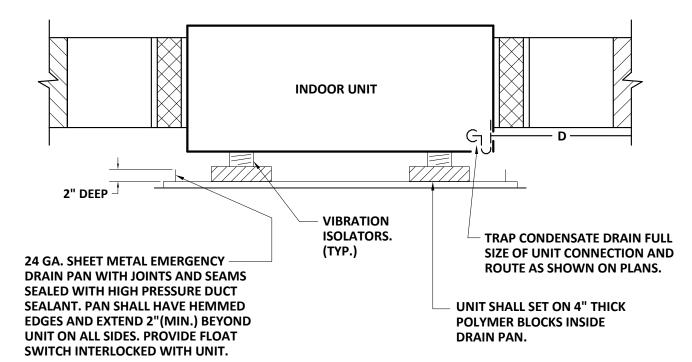
FLEXIBLE ROUND DUCT CONNECTION DETAIL

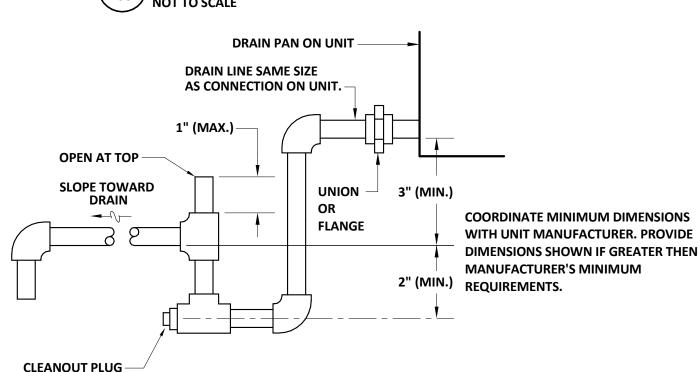


SUPPLY DUCT TAKE-OFF FITTING DETAIL **NOT TO SCALE**

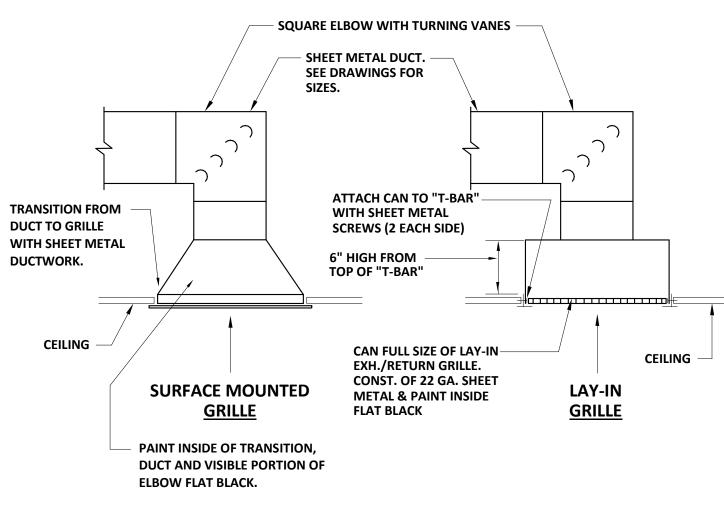


ROOF MOUNTED GRAVITY HOOD DETAIL

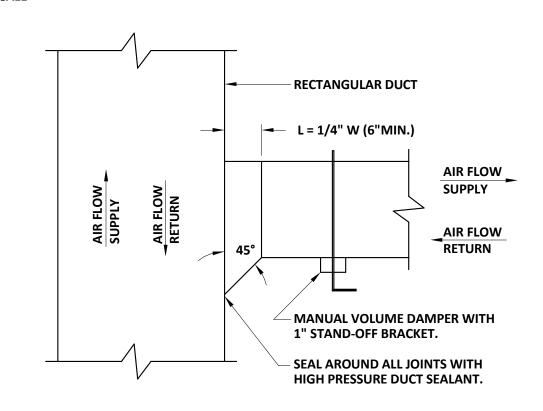




CONDENSATE DRAIN TRAP DETAIL

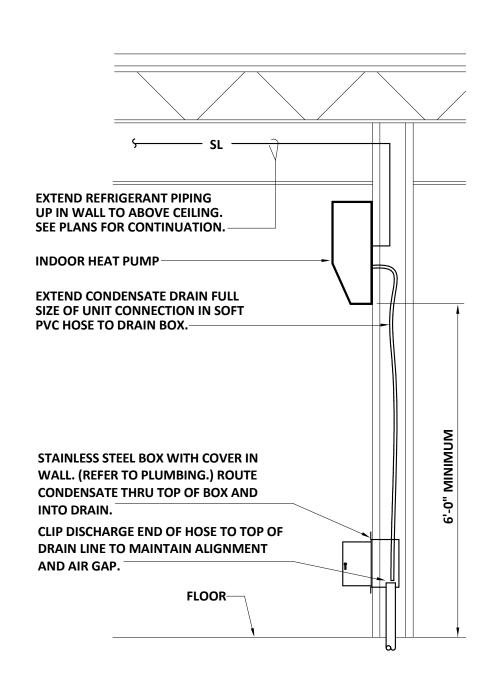


EXHAUST/RETURN GRILLE CONNECTION DETAILS

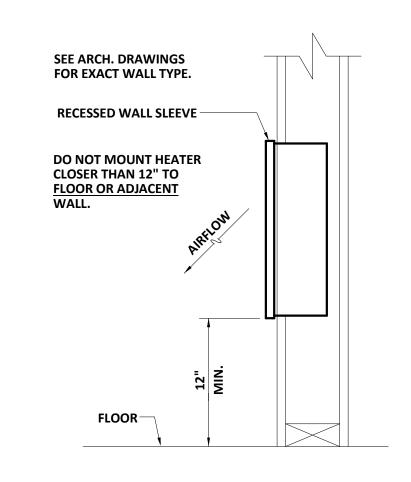


RECTANGULAR SUPPLY AND RETURN DUCT TAKE-OFF DETAIL

NOT TO SCALE



SECTION @ INDOOR HEAT PUMP M301 NOT TO SCALE



ELECTRIC WALL HEATER DETAIL

H.V.A.C. <u>SPECIFICATION</u>

<u>GENERAL:</u> Entire system shall be installed to meet applicable Local, State and National Codes, current requirements of NFPA, State Heating and Air Conditioning Code and National Electric Code.

All equipment shall be installed in accordance with the manufacturer's instructions. Installing contractor shall furnish fully functioning systems.

conditions prior to ordering equipment and fabricating duct. Any discrepancies discovered shall be reported to the Owner.

EXISTING CONDITIONS: Not all existing work is shown on the plans. The Contractor is responsible for verifying actual job site

ELECTRICAL: All line and low voltage control wiring shall be provided by the HVAC Contractor. Provide and submit complete wiring diagrams and all switches, starters, controls, relays, etc. necessary for a complete system. Run all wiring in EMT

Voltage and phase of mechanical equipment requiring power is designated under the Electrical division. Model numbers listed in mechanical equipment schedule shall not be construed to indicate electrical characteristics. Furnish written documentation that all electrical characteristics of mechanical equipment have been coordinated with and confirmed by the electrical subcontractor.

Power wiring and disconnects shall be provided under another Division.

SHOP DRAWINGS: Submit 5 sets of Shop Drawings for approval before ordering equipment.

1. Low Pressure, Metal: Fabricate of galvanized steel as per SMACNA Manual for HVAC Duct Construction Standards for 1" W.C., with transverse joints, branch connections and tap-ins sealed. 2. Duct sealant shall be water-Based Joint and Seam Sealant: Flexible, adhesive sealant, resistant to UV light when cured, UL 723 listed, and complying with NFPA requirements for class 1 ducts. Duct tape shall not be used 3. Flexible Ducts shall be factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-1/2-inch-thick, glass fiber insulation around a continuous inner liner. Reinforcement: Steel-wire helix encapsulated in the inner liner. Outer Jacket: Glass-reinforced, silver mylar. Inner Liner: polyethylene film. Pressure Rating: 10-inches wg, positive. R value = 6.0 Flexible

duct shall not exceed 4 feet in length and shall be supported 3 feet maximum on center with 3" wide by 26 gauge galvanized

hangers. Duct shall be secured to branch ducts and outlets with stainless steel worm drive strap or nylon self-locking strap

around the inner liner only. 4. All ductwork shall be supported in accordance with SMACNA Standards.

DUCT ACCESSORIES:

1. Turning Vanes: Fabricate turning vanes according to SMACNA HVAC Duct Construction Standards, Figures 2-2 through 2-7. 2. Manual Dampers: For rectangular duct: Opposed blade, constructed with galvanized gauge steel blades and equal to SMACNA DCS Fig. 2-15. End of damper operating rod shall be square to accommodate damper operator. Manual dampers 12" or smaller in height may be single blade type equal to SMACNA DCS Fig 2-14 constructed of galvanized sheet metal. Round damper shall be SMACNA DCS Fig 2-14 with blade gauge as follows: 8" and smaller = 22 gauge, 9" - 12" - 20 gauge 13"

3. Access Doors: Provide construction and airtightness suitable for duct pressure class. Frame: Galvanized sheet steel. Provide with bend-over tabs and foam gaskets. Door: Double-wall, galvanized sheet metal construction with insulation fill and thickness, number of locks as indicated for duct pressure class. Provide cam latches. Seal around frame attachment to duct and door to frame with neoprene or foam rubber seals. Insulation: 1-inch-thick fiber glass or polystyrene foam board. 4. Fire dampers shall be dynamically rated and UL labeled in accordance with UL Standard 555 for the fire resistance required by the partition rating. Damper shall have blades out of the airstream.

5. Combination fire/smoke dampers shall be electrically operated, dynamically rated and UL labeled in accordance with UL Standard 555 for the fire resistance required by the partition rating, and Class II smoke resistance. Damper shall have its

INSULATION:

1. Ductwork: Insulate lined and unlined supply, return, and outdoor air ductwork with 3/4 lb. 2" thick fiberglass blanket insulation with FSK jacket. Lap all vapor barrier joints 2" minimum, staple 4" o.c. and seal with vapor barrier mastic reinforced with fiber glass mesh ("glas-fab and mastic"). Use Stik-clips 24" o.c. on bottom of 30" wide and larger ducts.

Cover top of all air device shells with insulation. 2. Refrigerant and Condensate Drainage Pipe: Insulate with flexible elastomeric insulation (Armaflex or equivalent). Thickness: 3/4" for refrigerant suction and hot gas piping, 3/8" for condensate drainage piping. Seal all joints with compatible adhesive. Slip whole sections of insulation on piping before pipe joints are made. Miter all elbows in insulation. Paint outdoor insulation two brush coats of exterior latex enamel in color selected by the Owner.

3. Duct Liner: 1 ½ lb density, 1" thick (unless noted) vinyl spray coated with flame spread less than 25. Adhere liner with thick coat lagging adhesive over entire surface and fasten liner with weld or stick pins 12" o.c. in accordance with SMACNA

CONCRETE PADS: Provide 3000 psi concrete pad for all ground and floor mounted HVAC equipment. Pads outdoors on grade shall be 6" thick and extend 4" above the adjacent grade. Pads indoors shall be nominally 4" thick. Pads shall be re-enforced with 6" x 6" 1010 wire and shall have chamfered edges. Concrete pads shall extend 6" beyond all sides of unit.

1. Refrigerant piping shall be ACR nitrogen charged tubing with joints made with high temperature (1200 degrees F.) brazing compound. Bleed dry nitrogen through piping during brazing process. After satisfactory leak test, piping and system shall be evacuated and charged in accordance with the manufacturer's printed instructions.

2. Condensate drain piping shall be type "L" hard temper tubing with soldered fittings. 3. Support pipe from structure above with clevis type hanger, all thread rod and upper attachment devices appropriate for the structural type. Provide supplementary steel for upper attachment as required. Hangers shall fit around insulated pipe and shall have 24 gauge galvanized sheet metal saddle between the support and the insulation jacket.

TESTS:

1. Refrigerant Piping: Charge system per industry accepted standards for systems utilizing R-410A, or manufacturer's recommended procedures if more stringent than industry standards. The following is an outline of the triple evacuation

a. Pull initial vacuum on the line set testing for a leak. If it holds then pressure test with Nitrogen at 300 psi minimum. b. Pump system down, recharge with Nitrogen to 2 psi. Perform this step two times. c. Pump system down, re-pressurize with Nitrogen and then evacuate system to 500 microns. Hold for 30 minutes. d. Break vacuum with refrigerant and charge per manufacturer's directions.

2. Heat and Cooling Units: Record all motor and heater nameplate amps and running amps during Heating and Cooling cycle (below 60 degrees F. cooling). Record all fan motor amps for motors ½ HP and larger. 3. Air Side Systems: Record air quantities at supply outlets, return grille and outside air duct. All airflow quantities shall be

ELECTRIC HEAT PUMP: Unit shall be of size, type and capacity as indicated on the Drawings and shall be manufactured by Trane. Equal units by Johnson Controls, Lennox or Carrier will be acceptable.

The following accessories shall be provided:

Condenser Coil Guard 5-minute Anti-Recycle TimerHard Start Kit for Single Phase Units Crankcase Heater Outdoor Thermostat for each Auxiliary Heat Stage Defrost Thermostat for Indoor Coil

balanced to be within + or - 10% of design air quantity.

Auxiliary electric heaters shall be of size and capacity as indicated on the Drawings and meet the requirements of the National Electric Code and Underwriters Laboratories.

RANGE HOOD SYSTEMS

Low Ambient controls

Submit the following: Product data for each range hood, including unit weight, furnished accessories and installation and startup instructions. Also, submit shop drawings detailing fabrication and installation of range hood, including plans, elevations, sections, component details, attachments and other construction elements. Include the following: dimensions, weight loadings and distribution, clearances for maintenance and operation, size and location of field connections, mounting details and wiring diagrams. Maintenance data for each hood system to include in the Operating and Maintenance Manual and a certification letter from the manufacturer stating that the rangehood system has been through startup procedures and that it is functioning properly.

U.L. Listing: Hood shall bear the U.L. Listed nameplate in accordance with U.L. 710. NFPA Compliance: Hood shall be constructed in accordance with NFPA Standard 96 requirements and 120-3-3 modifications to NFPA-96. NSF Compliance: Hood shall bear the National Sanitation Foundation seal of approval. Fire suppression installer shall have a pre-engineered kitchen fire suppression system license.

Manufacturers: Subject to compliance with requirements, provide products by the following manufacturers:

Captive Aire

Greenheck The hood shall be constructed in accordance with NFPA Standard 96, Vapor Removal from Cooking Equipment. Hood shall have the National Sanitation seal of approval and be U. L. Listed and labeled in accordance with U.L. 710 and shall comply

1. All Type 304 stainless steel construction (18 gauge min.) No. 3 finish interior and exterior where exposed to view. Inner shell shall be insulated with 1", 3 pound density fiberglass duct liner.

2. Provide, from the hood manufacturer, Type 304 stainless steel, 18 gauge No. 3 finish enclosure panels between top of Grease extractors shall be 20" x 20" size, all stainless steel construction, furnished with drop handles and shall be self draining. Extractors shall be selected for 0.5 in. W.C. clean pressure drop (700 cfm max. per filter). Mesh filters will not be accepted. The filters shall be equal to Fire Guardian and shall be listed by Underwriters' Laboratories, Inc.

1. Grease gutters shall be furnished and pitched to drain to a removable metal container with capacity not exceeding one 2. Fan and light controls shall be mounted on face of canopy in factory installed stainless steel wireway system similar in design to Wiremold boxes with a stainless steel vertical raceway welded to the hood face - all with No. 3 finish. Provide separate switching for supply air and exhaust air (two switches), all with signal lights. 3. Complete drawings of the system installation including the hood(s), exhaust duct(s), and appliances, along with the

interface of the fire extinguishing system detectors, piping, nozzles, fuel shut-off devices, agent storage container(s), and manual actuation device(s) shall be submitted to the authority having jurisdiction. 4. Vapor proof incandescent lights with bulbs shall be installed approximately on 36-inch centers. Globe shall be clear thermal shock proof glass, plastic coated. Fixtures shall be U.L. Listed for Commercial Cooking Hoods. 5. Temperature sensor and fan delay relay shall be installed in exhaust duct collar of hood to turn on exhaust fan when setpoint is reached. Sensor shall be rated for 120 volts.

6. The prewired remote control center shall include, but not be limited to, an integral master disconnect switch with fuse blocks for main power connection, magnetic motor starters with thermal overloads and manual reset, fused 120 volt control transformer, and distribution terminal control strip for control wiring connection. All electrical components shall be UL Listed or classified where applicable and wired in compliance with the National Electrical Code. Wiring shall be complete, requiring only one-point field connection for power service and one-point filed connection for control voltage.

Provide roof mounted pre-engineered combination exhaust and supply fan package of size and capacity as indicated on the plans. The assembly shall be a complete system and shall include the following:

1. Hinged upblast exhaust fan shall be constructed of aluminum and shall conform to AMCA, U.L. 762 Listed for use with restaurant exhaust applications. Fan shall have grease drain container with tight fitting lid. 2. Supply air fan package shall be constructed of weatherproof baked enamel finished 16 gauge galvanized steel. Supply fan shall be forward curved centrifugal type with adjustable belt drive and mounted on vibration isolators. Fan wheel shall be constructed of galvanized steel and fan bearings shall be sized for an average life of 200,000 hours. Unit shall be complete with adjustable angle iron support legs and mounted on an equipment rail. The inlet shall contain a bird screen and 1 inch washable U.L. Listed aluminum filters sized for 500 fpm max. face velocity. Provide motorized 2-position multi-shutter outside air damper. Filters shall be easily removable. Shop drawings submittal shall include fan curves. Access panels shall be side access. (Top access is not acceptable.)

3. Furnish pre-fabricated roof curb constructed of minimum 18 gauge galvanized steel with integral non-combustible nailer, run-off cant and 1" rigid insulation. Provide extensions as required for exhaust fan to meet N.F.P.A. requirements for discharge height. Roof curb shall be approved by the National Roofing Contractors Association. 4. Master electric pre-wired weatherproof control panel, factory mounted on rooftop fan package with: Main power source fused disconnect switch; control circuit terminal strip; magnetic motor starters with motor overload protection, relays, transformer and fused control circuit. Furnish heat detection sensors and controls to automatically energize fans when heat it detected in the hood shell. Panel shall be mounted on exterior of unit and single disconnect shall control both supply and

exhaust fan. Panel shall be weather proof. 5. Factory wiring shall be provided in conduit conforming to NFPA Standard 70 and designed to withstand effects of heat, vapor and grease on the equipment. Wiring shall include control wiring to conduit to the opening in top of canopy, connecting wiring and conduit from master electric control panel to supply and exhaust fans. Direct Gas Heater: Fan package preheater(s) shall be direct-fired gas, A.G.A. design certified and C.G.A. approved. The unit shall include, but not be limited to: Heavy duty stainless steel burners, main gas pressure regulator, pilot gas cock, main modulating gas valve, electric spark ignition pilot re-light system safety pilot, high limit, 24-volt control transformer. Burner shall be equipped with duct mounted thermostat and be capable of 30:/turndown. The pre-heater shall be an integral part of the fan package. 6. The installer shall certify to the authority having jurisdiction that the installation is in complete agreement with the terms of the listing and the manufacturer's instructions and/or approved design.

7. Contractor shall submit a layout of the hood, fan package and connecting ductwork. Structural steel and ceiling height locations will be indicated on drawings. 8. Hood, grease extractors and ducts shall have a clearance of at least 18 inches to combustible material. See NFPA 96

Appendix for protection required to reduce the clearance to combustibles.

Provide Grease Guard system to protect roof around Kitchen Range Hood exhaust fans. System shall protect 4-sides of base of fan (3 sides of base of fan packages with common curb for supply and exhaust fans) and shall consist of grease deflecting flashing at base of fan.3-layer filter assembly contained in an anodized aluminum frame. Product shall be as manufactured by Grease Guard, Inc.

Rangehood Fire Suppression System: Refer to Architectural Drawing, Kitchen Equipment Drawings and Mechanical Drawings. Provide Fire Suppression system and nozzles for each Cooking Appliance, Hood, Filters and Plenum.

1. Provide U. L. Listed wet chemical type Fire Suppression System for the hood, duct plenum and appliances. Upon activation of the extinguishing system, all fuel shall be shut off, whether gas or electric and will include fuel to all equipment under the hood, including fryers, broilers, griddles and ranges. Make-up air shall be shut off, but exhaust fans shall continue exhausting. Exhaust fans shall have an adjustable high limit shutdown switch normally set at 350 deg. F. Firestat shall be removable bulb type with reset button located on the hood. The fire extinguishing system shall be designed in accordance with the Standard Mechanical Code, Section 307, NFPA 96 and NFPA 17A.

2. The fire extinguishing system shall also meet the requirements of the State Fire Marshal. Submit copies of Drawings bearing the stamp of Approval of the State Fire Marshal; one copy of which shall remain at the Job Site.

3. Piping, except for nozzle drops, shall be run above the hood. Hood penetration shall be made with Ansul "Quick-Seal" 4. All exposed piping shall be Schedule 40 black steel with stainless steel fittings. Piping shall be covered with polished chrome plated sleeves. Manual activation levers shall be as shown on the plan or in avenue of egress from kitchen. All electrical switches, control wiring devices and fuel cut-off valves shall be provided. Installation of piping system and control and interlock system shall be under this (MECHANICAL) Division. Wiring, conduit, cable, etc., shall be installed concealed.

Provide access panels as required. 5. The fire suppression system shall be pre-engineered, liquid agent type with fixed nozzle agent distribution network. It shall be listed with Underwriters Laboratories, Inc. (UL).

6. The system shall have fire suppression capabilities for the following hazard areas: ventilating structures including hoods, ducts, plenums, and filters; deep-fat fryer; griddles and range tops; upright natural charcoal or chain-type broilers; electric, lava rock, mesquite or gas-radiant char-broilers.

7. The extinguishing agent shall be a potassium carbonate, potassium acetate-based formulation. 8. Agent tank shall be chrome-plated carbon steel.

9. The regulated release mechanism shall be the spring-loaded type capable of providing the expellant gas supply to agent tank. The regulated release mechanism shall have the following actuation capabilities: automatic actuation by fusible link detection system; remote manual actuation by a mechanical pull station; local manual actuation by a push button located at

the front of the release mechanism enclosure. 10. The tank/bracket assembly shall contain a chrome-plated, welded steel bracket and an agent tank. 11. Each discharge nozzle shall be tested and listed with a restaurant system for specific applications. Nozzle placement shall be determined by the size of the orifice in the nozzle tip.

12. The fusible link shall be selected and installed according to the operating temperature in the ventilating system.

13. The following accessory equipment shall be provided. a. A remote manual pull station shall be the primary means of manual actuation.

b. A U.L. listed mechanical gas line shut-off valve. c. A U.L. listed electric switch shall be provided to shut off electrical power to appliances, or to activate electrically-operated devices and Fire Alarm System. d. Provide a relay with 2 single pole contacts for the purpose of sending signals to the fire alarm system. Relay contact

ratings and operation shall be compatible with the fire alarm system. 14. The installer shall submit a Letter of Certification to the State Fire Marshal (with copy to the Architect) that the installation is in complete agreement with the terms of the listing and the manufacturer's instructions and/or approved

EXHAUST FANS: Exhaust fans shall be of size, type and capacity as shown on the drawings and shall be manufactured by Greenheck. Equal products by Cook, Penn, Acme, and Hartzell are acceptable.

1. Ceiling-mounted fans shall include integral disconnect, aluminum ceiling grille, and backdraft damper. Furnish discharge accessories as indicated on the fan schedule.

BIPOLAR IONIZATION AND AIR PURIFICATION SYSTEMS: Units shall be of size, type and capacity as shown on the drawings and shall be manufactured by Global Plasma Solutions (GPS). Equal products by Aerisa, Air Oasis, Bioclimatic, and Plasma Air are acceptable. Bipolar ionization units shall be tested and listed by either UL or ETL according to UL Standard 867 Electrostatic Air Cleaners. The operation of the electrodes or bipolar ionization units shall conform to UL 867 with respect to ozone generation. Ion generators shall contain a built-in power supply and directly accept 24V AC and shall connect to the

1. Fan-mounted units shall be brush type needlepoint units designed to be mounted at the fan inlet. Units shall have an LED ionization output-indicator, and an in-line 1-Amp fuse.

OPERATING AND MAINTENANCE MANUALS: Provide Owner 3 bound copies of Operating and Maintenance Instructions on each piece of HVAC equipment.

INSTRUCTION TO OWNER: Provide formal instruction period to familiarize the Owner in the operation and maintenance of the HVAC System. Document attendance and material covered for each instruction session.

<u>CONTROLS:</u> Control system consists of sensors, indicators, actuators, microprocessors, final control elements, interface equipment, other apparatus, and accessories connected to controllers to operate mechanical systems according to sequences of operation indicated or specified. Installation shall be in accordance with HVAC equipment manufacturer's

wiring diagrams. Control components shall form a fully functional system. 1. Thermostats: Manufacturers standard 7-day programmable thermostat

fan and common terminals of the fan coil unit or air handling unit served.

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FILE NAME: 21011MECH PLOT SCALE: 1" =1'-0"

SPECIFICATIONS

DRAWING NO:

DA PROJECT NUMBER & NAME:

DRAWING TITLE:

HVAC

DETAILS &

ARCHITECTS

Architecture|Interior Design|Plannin

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Member of the

American Institute of

Architects

PROJECT TITLE:

HICKEY

CENTER

04/16/21 JMF 35% SET

11/17/21 JMF 65% SET

2/16/22 JMF ISSUE FOR PERMIT

17544	SUPPLY	ESP	OA	FAN	550/5	COOLING	CAP. BTUH (1)	AUX.	HEAT	TRANE MODEL	DEA.4.DV
ITEM	CFM	(IN. WG)	CFM	НР	DRIVE	SENSIBLE	TOTAL	KW	STGS.	NO.	REMARKS
IHP-1	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)
IHP-2	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)
IHP-3	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)
IHP-4	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)
IHP-5A		-	-	-	DIRECT	-	42,000	-	-	MITSUBISHI PLA-	(2)
IHP-5B		-	-	-	DIRECT	-	42,000	-	-	MITSUBISHI PLA-	(2)
IHP-6	530	-	-	-	DIRECT	-	12,000	-	-	MITSUBISHI PLA-A12	(2)
IHP-7	600	0.5	60	1/8	DIRECT	12,600	17,000	4.8	1	GAM5BOA18	(2)
IHP-8	600	0.5	60	1/8	DIRECT	12,600	17,000	4.8	1	GAM5BOA18	(2)
IHP-9	2000	0.5	200	3/4	DIRECT	40,000	56,000	9.6	1	GAM5BOC60	(2)
IHP-10	1200	0.5	120	1/2	DIRECT	24,800	34,000	4.8	1	GAM5BOB36	(2)
IHP-11	2000	0.5	200	3/4	DIRECT	40,000	56,000	9.6	1	GAM5BOC60	(2)
IHP-12	600	0.5	60	1/8	DIRECT	12,600	17,000	4.8	1	GAM5BOA18	(2)
IHP-13	2000	0.5	200	3/4	DIRECT	40,000	56,000	9.6	1	GAM5BOC60	(2)
IHP-14	2000	0.5	200	3/4	DIRECT	40,000	56,000	9.6	1	GAM5BOC60	(2)
IHP-15	2000	0.5	200	3/4	DIRECT	40,000	56,000	9.6	1	GAM5BOC60	(2)
IHP-16	1200	0.5	120	1/2	DIRECT	24,800	34,000	4.8	1	GAM5BOB36	(2)
IHP-17	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)
IHP-18	600	0.5	60	1/8	DIRECT	12,600	17,000	4.8	1	GAM5BOA18	(2)
IHP-19	1200	0.5	120	1/2	DIRECT	24,800	34,000	4.8	1	GAM5BOB36	(2)
IHP-20	1200	0.5	120	1/2	DIRECT	24,800	34,000	4.8	1	GAM5BOB36	(2)
IHP-21	350			1.0 A	DIRECT		18,000			MITSUBISHI PKA-A18HA	(2)
IHP-22	1600	0.5	160	1/2	DIRECT	33,200	46,000	9.6	1	GAM5B0C48	(2)

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.(2) FURNISH AND INSTALL BIPOLAR IONIZATION UNIT SIZED FOR FULL UNIT AIRFLOW.

MARK	ТҮРЕ	NECK (1) CONNECTION	FINISH	OBD	PRICE NO. UNLESS NOTED	REMARKS (2)
(A)	CEILING DIFFUSER	6"?	MANUFACTURER'S STANDARD FINISH	NO	SCD-4C	24 X 24 PANEL (3)
A 8	CEILING DIFFUSER	8"?	MANUFACTURER'S STANDARD FINISH	NO	SCD-4C	24 X 24 PANEL (3
A 10	CEILING DIFFUSER	10 "2	MANUFACTURER'S STANDARD FINISH	NO	SCD-4C	24 X 24 PANEL (3
A 12	CEILING DIFFUSER	12" ②	MANUFACTURER'S STANDARD FINISH	NO	SCD-4C	24 X 24 PANEL (3
$\left\langle \begin{array}{c} A \\ 14 \end{array} \right\rangle$	CEILING DIFFUSER	14"2	MANUFACTURER'S STANDARD FINISH	NO	SCD-4C	24 X 24 PANEL (3
$\begin{pmatrix} B \\ 6 \end{pmatrix}$	CEILING DIFFUSER	6" ?	MANUFACTURER'S STANDARD FINISH	NO	SCD	12 X 12 PANEL (3
$\left\langle \begin{array}{c} B \\ 8 \end{array} \right\rangle$	CEILING DIFFUSER	8"?	MANUFACTURER'S STANDARD FINISH	NO	SCD	12 X 12 PANEL (3
C	CEILING RETURN/EXHAUST	10" X 10"	MANUFACTURER'S STANDARD FINISH	NO	80	12 X 12 PANEL WITH BORDER FRAME
D	CEILING RETURN/EXHAUST	22" X 22"	MANUFACTURER'S STANDARD FINISH	NO	80	24 X 24 PANEL WITH BORDER FRAME
E	SUPPLY REGISTER	SEE PLANS	MANUFACTURER'S STANDARD FINISH	YES	520D	DOUBLE DEFLECTION 3/4" BLADE SPACING
F	RETURN GRILLE	SEE PLANS	MANUFACTURER'S STANDARD FINISH	NO	535	45° DEFLECTION 1/2" BLADE SPACING
G	HEAVY DUTY RETURN/EXHAUST	SEE PLANS	MANUFACTURER'S STANDARD FINISH	NO	91	45° DEFLECTION 3/8" BLADE SPACING
LOUVER	WIND-DRIVEN RAIN STATIONARY LOUVER	SEE PLANS	(4)	NO	GREENHECK EHH-601	FLANGE FRAME BIRDSCREEN
LOUVER-1	MOTORIZED LOUVER	SEE PLANS	(4)	NO	GREENHECK EAD-635 (5)	FLANGE FRAME BIRDSCREEN
LOUVER-2	STATIONARY LOUVER	SEE PLANS	(4)	NO	GREENHECK ESD-635	FLANGE FRAME BIRDSCREEN

- (1) DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, UNLESS NOTED OTHERWISE.
- (2) PROVIDE LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR CEILING
- (3) PROVIDE WITH REMOVABLE CORE (RC) AND MOLDED, INSULATED BACKPAN WITH FOIL SKRIM VAPOR
- (4) BAKED ENAMEL FINISH, CUSTOM COLOR. COLOR AS SELECTED BY ARCHITECT.
- (5) CONCEALED OPERATOR AND LINKAGE. SIZE INDICATED DOES <u>NOT</u> INCLUDE OPERATOR COMPARTMENT.

ITEM	LOCATION	CFM	THROAT WIDTH (IN.)	ESP (IN. WG)	GREENHECK MODEL NO.	REMARKS
GH-1	ROOF	1200		0.01	GRSI-30	
GH-2	ROOF	1200		0.01	GRSI-30	
GH-3	ROOF	1200		0.01	GRSI-30	
GH-4	ROOF	320		0.01	GRSR-16	
GH-5	ROOF	400		0.01	GRSR-16	

		O	UTDOOR I	HEAT PUM	1P SCHED	ULE	
ITEM	COOLING CAP. BTUH (1)	EER MIN.	HEATING HI	CAP. MBH (1)	Н	COP (1)	TRANE MODEL NO.
OHP-1	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048
OHP-2	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048
ОНР-3	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048
ОНР-4	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048
OHP-5	42,000	21.0 SEER	45.0	28.0	4.0	2.91	MITSUBISHI PUZ-A42
ОНР-6	12,000	27.0 SEER	14.0	10.1	4.94	2.91	MITSUBISHI PUZ-A12
OHP-7	17,000	14.0 SEER	16.0	8.6	3.5	7.7 HSPF	4TTR4018
ОНР-8	17,000	14.0 SEER	16.0	8.6	3.5	7.7 HSPF	4TTR4018
OHP-9	57,000	14.0 SEER	53.0	34.4	3.5	8.5 HSPF	4TWA4060
OHP-10	35,200	14.0 SEER	32.2	17.6	3.5	7.9 HSPF	4TWA4036
OHP-11	57,000	14.0 SEER	53.0	34.4	3.5	8.5 HSPF	4TWA4060
OHP-12	17,000	14.0 SEER	16.0	8.6	3.5	7.7 HSPF	4TTR4018
OHP-13	57,000	14.0 SEER	53.0	34.4	3.5	8.5 HSPF	4TWA4060
OHP-14	57,000	14.0 SEER	53.0	34.4	3.5	8.5 HSPF	4TWA4060
OHP-15	57,000	14.0 SEER	53.0	34.4	3.5	8.5 HSPF	4TWA4060
OHP-16	35,200	14.0 SEER	32.2	17.6	3.5	7.9 HSPF	4TWA4036
OHP-17	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048
OHP-18	17,000	14.0 SEER	16.0	8.6	3.5	7.7 HSPF	4TTR4018
OHP-19	35,200	14.0 SEER	32.2	17.6	3.5	7.9 HSPF	4TWA4036
OHP-20	35,200	14.0 SEER	32.2	17.6	3.5	7.9 HSPF	4TWA4036
OHP-21	18,000	15.3 SEER	19.0	13.0	9.5 HSPF		MITSUBISHI PUZ-A18NHA
OHP-2	47,500	14.0 SEER	42.5	24.8	3.5	8.8 HSPF	4TWA4048

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

				FAN SO	CHEDU	JLE			
ITEM	LOCATION	CFM	ESP (IN. WG)	НР	RPM	MAX. RPM	MAX. SONES	GREENHECK MODEL NO.	REMARKS
F-1	TOILET 141	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-2	TOILET 142	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-3	TOILET 137	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-4	TOILET 138	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-5	TOILET 105	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-6	TOILET 104	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-7	TOILET 107	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-8	TOILET 108	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-9	TOILET 111	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-10	TOILET 110	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-11	KITCHEN 128	1300	0.5	1/2	1475	1725	9.7	SQ-120-VG	(3)(7)
F-12	ROOF	120	0.375	1/30	1300		6.1	G-080-G	(1)(6)
F-13	ROOF	600	0.5	1/8	1550		9.3	G-095-D	(1)(4)
F-14	JANITOR 140.1	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-15	JANITOR 128.1	80	0.375	30 WATTS	650	-	2.5	SP-B110ES	(2)(4)
F-16	ROOF	2150	1.0	3/4	1172	-	13.7	CUE-160-VG	(8)
F-17	COURTYARD	8400	-	3/10	1100	-	-	GLOBAL INDUSTRIAL T9F292451	(9)
F-18	COURTYARD	8400	-	3/10	1100	-	-	GLOBAL INDUSTRIAL T9F292451	(9)
F-19	COURTYARD	8400	-	3/10	1100	-	-	GLOBAL INDUSTRIAL T9F292451	(9)
F-20	COURTYARD	8400	-	3/10	1100	-	-	GLOBAL INDUSTRIAL T9F292451	(9)

- (1) COMPLETE WITH BACKDRAFT DAMPER, ROOF CURB, BIRDSCREEN, (SPEED CONTROLLER), AND DISCONNECT MEANS.
- (2) COMPLETE WITH BACKDRAFT DAMPER, HANGING BRACKETS, METAL CEILING GRILLE, (SPEED CONTROLLER), AND
- MEANS.
 (3) COMPLETE WITH BACKDRAFT DAMPER, ISOLATION HANGERS, (SPEED CONTROLLER), AND DISCONNECT MEANS.
- (4) SWITCH WITH ROOM LIGHTS. FURNISH CONTACTORS AS REQUIRED.
- (5) CONTROL WITH WALL SWITCH.
- (6) CONTROL WITH THERMOSTAT SET AT 85° (ADJ.).
- (7) CONTROL WITH HOOD MOUNTED SWITCH.
- (8) SEE SPECIFICATIONS FOR REQUIRED ACCESSORIES.
- (9) 30" OSCILLATING WALL MOUNT FAN. 110V PLUG WITH PULL CHAIN.

	RANGEHOOD SCHEDULE										
ITEM SUPPLY S.P. SUPPLY HP. EXHAUST S.P. EXHAUST S.P. EXHAUST S.P. EXHAUST HP. GREENHECK MODEL NO.							GREENHECK MODEL NO.				
RH-1	1300	0.5	1/2	2,150	1.0	3/4	13.7	GHEW (1)			

(1) FURNISH CONTROL PACKAGE FOR SINGLE POINT CONNECTION.

ITEM	SUCTION LINE OD	LIQUID LINE OD	REMARKS
IHP-1/OHP-1	7/8"	3/8"	(1)
IHP-2/OHP-2	7/8"	3/8"	(1)
IHP-3/OHP-3	7/8"	3/8"	(1)
IHP-4/OHP-4	7/8"	3/8"	(1)
IHP-5/OHP-5	5/8"	3/8"	(1)
IHP-6/OHP-6	1/2"	1/4"	(1)
IHP-7/OHP-7	3/4"	3/8"	(1)
IHP-8/OHP-8	3/4"	3/8"	(1)
IHP-9/OHP-9	1 1/8"	3/8"	(1)
IHP-10/OHP-10	7/8"	3/8"	(1)
IHP-11/OHP-11	1 1/8"	3/8"	(1)
IHP-12/OHP-12	3/4"	3/8"	(1)
IHP-13/OHP-13	1 1/8"	3/8"	(1)
IHP-14/OHP-14	1 1/8"	3/8"	(1)
IHP-15/OHP-15	1 1/8"	3/8"	(1)
IHP-16/OHP-16	7/8"	3/8"	(1)
IHP-17/OHP-17	7/8"	3/8"	(1)
IHP-18/OHP-18	3/4"	3/8"	(1)
IHP-19/OHP-19	7/8"	3/8"	(1)
IHP-20/OHP-20	7/8"	3/8"	(1)
IHP-21/OHP-21	1/2"	1/4"	(1)
IHP-22/OHP-22	7/8"	3/8"	(1)

REFRIGERANT PIPE SIZES INDICATED ARE FOR ESTIMATING PURPOSES ONLY. EXACT SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.

	DEDICATED OUTDOOR AIR UNIT SCHEDULE											
TOTAL C.F.M. EXT. S.P. INCHES W.C. NET COOLING CAP. SENS/TOT MBH SENS/TOT MBH SENS/TOT MBH SENS/TOT MBH SUMMER DESIGN ENTERING DB/WB REHEAT COIL CAP. MBH REHEAT COIL CAP. MBH REHEAT COIL CAP. MBH SUMMER DESIGN ENTERING DB REHEAT COIL CAP. MBH SUMMER DESIGN ENTERING DB REHEAT COIL CAP. MBH SUMMER DESIGN ENTERING DB MITSUBISHI MODEL NO. REMARKS									REMARKS			
DOAS-1	1200	1.0	/112.0	87.0/80.0	55.8/-	24.0	/	32.0	79.4	PEFY-AF1200CFMR	(1)	
DOAS-2	1200	1.0	/112.0	87.0/80.0	55.8/-	24.0	/	32.0	79.4	PEFY-AF1200CFMR	(1)	
DOAS-3	1200	1.0	/112.0	87.0/80.0	55.8/-	24.0	/	32.0	79.4	PEFY-AF1200CFMR	(1)	

(1) UNIT WITH SMART ME STAND-ALONE CONTROLLER WITH TIME-OF-DAY SCHEDULING AND DISCHARGE TEMPERATURE CONTROL.

CONDENSING UNIT SCHEDULE								
ITEM	SERVES	CAPACITY M.B.H.	S.E.E.R.	MANUF. MODEL NO.				
CU-DOAS-1	DOAS-1	120.0		PURY-P120				
CU-DOAS-2	DOAS-1	120.0		PURY-P120				
CU-DOAS-3	DOAS-1	120.0		PURY-P120				

BRANCH CONTROLLER SCHEDULE										
ITEM	# OF PORT SETS	SERVED FROM	MITSUBISHI MODEL NO.							
BC-DOAS-1	6	CU-DOAS-1	CMB-P106							
BC-DOAS-2	6	CU-DOAS-2	CMB-P106							
BC-DOAS-3	6	CU-DOAS-3	CMB-P106							

(1) REFRIGERANT PIPE SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED

	ELECTRIC HEATER SCHEDULE									
ITEM	LOCATION	WATTS	Q-MARK MODEL NO.	REMARKS						
WH-1	SEE PLANS	2,000	AWH SERIES	(1)						

(1) COMPLETE WITH RECESSED TRIM KIT AND UNIT MOUNTED THERMOSTAT.

H	HVAC LEGEND
SYMBOL	DESCRIPTION
SL	REFRIGERANT SUCTION / LIQUID
D	CONDENSATE DRAIN
T	THERMOSTAT 4'-6" A.F.
◆ CRD	CEILING RADIATION DAMPER
OBD	OPPOSED BLADE DAMPER
∮ or CFM	CUBIC FEET PER MINUTE
M-1 -	— DETAIL NO — 1/M-1 — SHEET NO. —
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
or MVD	MANUAL VOLUME DAMPER
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	SQUARE ELL WITH SINGLE THICK TURNING VANES
	FABRIC DUCT WITH MESH DIFFUSERS
(A) -	— AIR DEVICE — NECK CONNECTION SIZE
ø	DIAMETER

HVAC NOTES:

NOT ALL EXISTING WORK IS SHOWN, AND THAT SHOWN IS IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXACT LOCATION, ARRANGEMENT, AND SIZES SHALL BE VERIFIED ON THE JOB BEFORE STARTING ANY NEW WORK.

INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS ADJACENT TO WALLS AND CEILINGS WHERE POSSIBLE TO PROVIDE MAXIMUM ROOM CLEARANCE.

COORDINATE THE INSTALLATION OF WORK UNDER THIS DIVISION WITH THAT OF OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF PIPING, DUCTWORK, AND EQUIPMENT.

PIPING, DUCTWORK, AND EQUIPMENT IS SHOWN IN ITS GENERAL LOCATION UNLESS DIMENSIONED.

ARRANGE PIPING AND DUCTWORK TO CLEAR STRUCTURAL MEMBERS, PIPING AND LIGHT FIXTURES.

EXACT LOCATION OF GRILLES AND CEILING OUTLETS SHALL BE DETERMINED ON THE JOBSITE.

COORDINATE WITH LIGHTS, SPRINKLER HEADS, AND OTHER CEILING APPURTENANCES TO PROVIDE A
UNIFORM AND SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS AND

ALL PIPING SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.

PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

PROVIDE UNION OR FLANGE CONNECTIONS IN PIPING AT ALL HYDRONIC EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

SLOPE DRAIN LINES TOWARD DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.



PLOT DATE: 4/16/21
FILE NAME: 21011MECH
PLOT SCALE: 1" =1'-0"

HVAC SCHEDULES

M401

DA PROJECT NUMBER & NAME:

DRAWING TITLE:

ARCHITECTS

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Member of the American Institute of Architects

PROJECT TITLE:

HICKEY

04/16/21 | JMF | 35% SET

11/17/21 JMF 65% SET

2/16/22 JMF ISSUE FOR PERMIT

2 3

<u>LEGEND</u>	
	LIGHTING AND POWER
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.
·## · · _	CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.
A-2,4,6	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.
	EXPOSED CONDUIT RUN.
2-E ()	L.E.D. LIGHTING FIXTURE, "2" INDICATES THE CIRCUIT NUMBER AND "E" THE FIXTURE TYPE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
0	EMERGENCY L.E.D. LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).
	L.E.D. FIXTURE, SURFACE OR STEM MOUNTED. WHERE NOTED AS "EM" FIXTURE PROVIDED WITH BATTERY PACK.
0	L.E.D. TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
<u>о</u>	EMERGENCY L.E.D. TROFFER. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND FIXTURE FURNISHED WITH BATTERY PACK AND TEST LIGHT. L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED.
Ю	L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS
.	NOTED. FIXTURE FURNISHED WITH BATTERY PACK AND TEST LIGHT. DIRECTIONAL L.E.D. LIGHTING FIXTURE, GROUND, WALL OR CEILING MOUNTED AS NOTED
	ON THE DRAWINGS.
	L.E.D. CHANDELIER OR PENDANT FIXTURE. CEILING PENDANT MOUNTED. TRACK LIGHT FIXTURE(S). CEILING OR PENDANT MOUNTED.
	EMERGENCY EGRESS FIXTURE.
<u>−</u> ⊗	EXIT LIGHT.
\	EMERGENCY PACK FIXTURE.
	JUNCTION BOX, FLUSH WALL MOUNTED.
<u> </u>	JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.
HJ	JUNCTION BOX, FLUSH WALL MOUNTED. DUPLEX CONVENIENCE OUTLET (TR RATED), +18" TO CENTER LINE OF OUTLET UNLESS
	OTHERWISE NOTED. 5" INDICATES THE CIRCUIT NUMBER.
	DUPLEX CONVENIENCE OUTLET (TR RATED) MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET. DUPLEX CONVENIENCE OUTLET (TR RATED), GFI TYPE. +18" TO CENTER LINE UNLESS
>	OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTENT DEVICE WITH METAL IN-USE WEATHERPROOF COVER.
\$	DUPLEX CONVENIENCE OUTLET (TR RATED), GFI TYPE. MOUNTED ABOVE COUNTER AT + 46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.
@-I	SPECIAL RECEPTACLE TO SUIT EQUIPMENT FURNISHED.
	QUADRUPLEX RECEPTACLE (TR RATED), +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
—————————————————————————————————————	QUADRUPLEX RECEPTACLE (TR RATED), +46" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
······································	FLUSH FLOOR RECEPTACLE (TR RATED), IN FLOOR BOX WITH HINGED COVER.
	FLUSH CEILING MOUNTED RECEPTACLE (TR RATED).
	FLUSH FLOOR BOX WITH QUADRUPLEX RECEPTACLE (TR RATED) AND DATA/VOICE
	OUTLET. SEE SPECIFICATIONS FOR TYPE OF BOX. FLUSH FLOOR BOX WITH QUADRUPLEX RECEPTACLE (TR RATED) AND PROVISIONS FOR
	LOW VOLTAGE CONNECTIONS AS NOTED ON DRAWINGS. SEE SPECIFICATIONS FOR TYPE OF BOX.
(A _V)	A/V OUTLET, 4 11/16" SQUARE X 2 1/8" DEEP. STUB UP 1 1/4" CONDUIT ABOVE CEILING. MOUNT AT +18" TO CENTER LINE, UNLESS OTHERWISE NOTED.
\$	SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.
\$ ³	THREE OR FOUR WAY SWITCH AS INDICATED. +46" TO CENTER LINE MOUNTING HEIGHT.
\$ ^T	SINGLE POLE DIGITAL TIME SWITCH WITH OPTIONAL AUDIBLE ALERT. +46" TO CENTER LINE MOUNTING HEIGHT. WATTSTOPPER TS-400 OR EQUAL.
ķ	KEY OPERATED SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.
þ	0-10VDC CAPABLE DIMMER +3'-6" MOUNTING HEIGHT. LUTRON "NOVA T" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITONAL CONDUCTORS TO ALL FIXTURES AS SHOWN CONNECTED FOR A PROPER 0-10VDC OPERATION. 0-10VDC CAPABLE DIMMER WITH PASSIVE INFRARED OCCUPANCY SENSOR. +3'-6"
þ°	MOUNTING HEIGHT, GRAY FINISH. DIMMER MUST BE COMPATIBLE WITH ALL LIGHTING COMPONENTS (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES AS SHOWN CONNECTED FOR PROPER 0-10V OPERATION.
р Д	0-10VDC CAPABLE THREE WAY DIMMER, +3'-6" MOUNTING HEIGHT. LUTRON "NOVA T" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITONAL CONDUCTORS TO ALL FIXTURES AS SHOWN CONNECTED FOR A PROPER 0-10VDC OPERATION.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.
Ņ	SINGLE OR DOUBLE POLE, MINIMUM 20 AMP MOTOR RATED ENCLOSED SWITCH WITH "LOCK-OUT" OPTION. MOUNTED NEAR EQUIPMENT BEING SERVED.
6	MOTOR.
[]	2" EMT TROUGH WALL WITH PLASTIC BUSHINGS ON EACH END. UNLESS OTHERWISE NOTED.
S	FLUSH MOUNTED JUNCTION BOX FOR FLUSH VALVE INFRARED SENSOR. COORDINATE EXACT MOUNTING LOCATION WITH SENSOR CUT SHEETS. PROVIDE CONDUIT AND LOW VOLTAGE WIRING BETWEEN TRANSFORMER AND SENSOR. COORDINATE LOW VOLTAGE
	CONTROLS FOR SENSORS WITH PLUMBING DRAWINGS. SEE EX.X FOR DETAILS. ELECTRIC FLUSH VALVE TRANSFORMER SHALL BE LOCATED ABOVE CEILING. CONNECT TO
<u></u>	NEAREST 120V RECEPTACLE CIRCUIT. TRANSFORMER SHALL BE PROVIDED BY DIVISION 15 AND INSTALLED/CONNECTED BY DIVISION 16. SEE EX.X FOR DETAILS.
(VC)	ELECTRICAL WATER COOLER. PROVIDE A DUPLEX RECEPTACLE AT WATER COOLER. CIRCUIT SHALL BE GFCI PROTECTED. REFER TO DETAIL X/EX.X FOR ROUGH-IN.
	OCCUPANCY SENSORS (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW)
þ	SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL). +46" TO CENTER LINE MOUNTING HEIGHT.
\Diamond^3	3-WAY SWITCH, WALL MOUNTED OCCUPANCY SENSOR CIRCUITED FOR 3-WAY OPERATION (WATTSTOPPER PW-103 OR EQUAL). +46" TO CENTER LINE MOUNTING HEIGHT.
¢²	DUAL TECHNOLOGY BI-LEVEL SWITCHING, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER DW-200 OR EQUAL). +46" TO CENTER LINE MOUNTING HEIGHT.
6 \$	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR. CEILING MOUNTED. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO
_	INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.) DUAL TECHNOLOGY OCCUPANCY SENSOR. CEILING MOUNTED AT CORNER UNLESS SHOWN
©	OTHERWISE. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)
√ 0	ULTRASONIC OCCUPANCY SENSOR. CEILING MOUNTED (WATTSTOPPER "UT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION
^	(POWER PACKS, SLAVE PACKS, ETC.) ULTRASONIC HALLWAY OCCUPANCY SENSOR. CEILING MOUNTED. (WATTSTOPPER
•	"WT-2255" OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)
Фр	PASSIVE INFRARED OCCUPANCY SENSOR. CEILING MOUNTED. (WATTSTOPPER "WT-2255" OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

	FIRE ALARM SYSTEM
VE	VOICE EVACUATION SIGNAL, SPEAKER, AND STROBE LIGHT, +6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE
⊬)(sL	STROBE LIGHT, 6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE.
F	PULL STATION. WALL MOUNTED +46" TO CENTER LINE MOUNTING HEIGHT.
FACP	FIRE ALARM CONTROL PANEL. SURFACE WALL MOUNTED.
DOC	FIRE ALARM DOCUMENTATION BOX.
<u>(I)</u>	HEAT DETECTOR, CEILING MOUNTED.
<2>	SMOKE DETECTOR, CEILING MOUNTED.
\(\)	CARBON MONOXIDE DETECTOR, CEILING MOUNTED.
FAA	FIRE ALARM LCD REMOTE ALPHANUMERIC ANNUNCIATOR. FLUSH WALL MOUNTED.
DD	DUCT SMOKE DETECTOR, LOCATED AT HVAC UNIT OR UP STREAM OF SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN.
VS	TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
WF	FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
FCSU	FIRE ALARM CONNECTION TO HOOD EXTINGUISHING SYSTEM. SEE MECHANICAL DRAWINGS FOR LOCATION.
MIC	VOICE EVACUATION REMOTE MICROPHONE.
CM	CONTROL/MONITOR MODULE.
	TELEPHONE / DATA SYSTEMS (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW. SYSTEM PROVIDED AND INSTALLED BY OTHERS)
	PLYWOOD BACKBOARD "T.B." INDICATES TELECOMMUNICATIONS BOARD.
	DATA RACK, 2 POST, WITH VERTICAL CABLE WIRE MANAGEMENT. SEE SPECIFICATIONS.
	DATA RACK, 4 POST, WITH VERTICAL CABLE WIRE MANAGEMENT. SEE SPECIFICATIONS.
\triangleright	COMBINATION VOICE/DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
\triangleright	COMBINATION VOICE/DATA OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
\triangleright	VOICE OUTLET., +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
\triangleright	VOICE OUTLET., +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
\triangleright	DATA OUTLET., +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
\triangleright	DATA OUTLET., +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.
w>	DATA OUTLET. (WIRELESS ACCESS POINT), +6" ABOVE ACCESSIBLE CEILING UNLESS NOTE OTHERWISE. WHERE THERE IS NO CEILING OR HIGH CEILING, WALL MOUNT AT +11' A.F.F.
	INTRUSION ALARM SYSTEM (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW. SYSTEM PROVIDED AND INSTALLED BY OTHERS)
⇒ ①	INTRUSION ALARM DETECTOR, INFRARED. CEILING MOUNTED UNIT. 50'-0" COVERAGE UNLESS OTHERWISE NOTED.
Ûĸ	INTRUSION ALARM, KEY PAD. +46" TO CENTER LINE MOUNTING HEIGHT.
©p	INTRUSION ALARM CONTROL PANEL.
	TELEVISION DISTRIBUTION SYSTEM (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW.
τν	SYSTEM PROVIDED AND INSTALLED BY OTHERS) TELEVISION OUTLET, +98" TO CENTER LINE, UNLESS OTHERWISE NOTED. LOCATE DUPLEX OUTLET SHOWN DIRECTLY ADJACENT TO T.V. OUTLET AT SAME HEIGHT.
ΉE	T.V. HEAD END EQUIPMENT.
	C.C.T.V. SYSTEM (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW. SYSTEM PROVIDED AND INSTALLED BY OTHERS)
c ◀	CCTV SYSTEM CAMERA, WALL OR CEILING MOUNTED. NUMBER DESIGNATES CAMERA NUMBER, "WP" INDICATES WEATHERPROOF.
Ćc	CCTV SYSTEM HEAD END EQUIPMENT.
M	CCTV SYSTEM MONITOR. VERIFY LOCATIONS WITH ARCHITECT/OWNER.
	ACCESS CONTROLS SYSTEM (DIVISION 26 TO PROVIDE AND INSTALL ALL CONDUIT, BACKBOXES, AND PULLSTRINGS AS NOTED BELOW. SYSTEM PROVIDED AND INSTALLED BY OTHERS)
(Ac)	ACCESS CONTROL KEYPAD LOCATION. PROVIDE SINGLE GANG, FLUSH WALL MOUNTED BOX +42" AFF WITH 1"C. AND PULLSTRING TO STUB-OUT 6" ABOVE NEAREST ACCESSIBLE CEILING. SEE DETAIL X/EX.X.
©	DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX BY DIVISION 26 AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4"C., WITH PULLSTRING FROM BOX TO
A	STUB-OUT 6" ACCESSIBLE CEILING AT DOOR. SEE DETAIL X/EX.X.

ACCESS CONTROL HEAD END.

WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.

- 2. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE
- 4. 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- 5. IN AREAS WHERE COMPUTER OUTLETS AND TELEPHONE OUTLETS ARE LOCATED BENEATH A WINDOW, AND WINDOW PREVENTS THE ROUTING OF CONDUIT UP TO CEILING SPACE, CONDUIT SHALL BE ROUTED TO A
- 6. ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE ROUTED UNDERGROUND. TURN UP ADJACENT TO UNIT AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT. CONDUIT SHALL BE.
- 7. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE
- 8. ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT

OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.

- 11. COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO
- 13. PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE
- 15. ALL CONDUIT ROUTED FROM SLAB UP TO PANELS AND EXPOSED CONDUIT ROUTED BELOW +48" A.F.F. SHALL
- 17. PRIOR TO ROUGH-IN OF OUTLETS, COORDINATE AN ON SITE MEETING TO REVIEW EXACT LOCATIONS WITH
- 18. ALL LOW VOLTAGE CABLING ROUTED UNDERGROUND SHALL BE WEST PENN "AQUASEAL" OR EQUAL. ALL LOW VOLTAGE CABLING NOT IN CONDUIT SHALL BE PLENUM RATED. ALL LOW VOLTAGE CABLING ROUTED OUTSIDE OF BUILDING FOOTPRINT SHALL BE PROVIDED WITH LIGHTNING PROTECTION SURGE MODULES LOCATED WHERE CONDUIT. CONDUCTORS ENTER THE BUILDING.
- 19. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
- 20. DIVISION 26 CONTRACTOR SHALL WARRANTY ALL EQUIPMENT AND INSTALLATION OF SUCH FOR 24 MONTHS FROM DATE OF PROJECT ACCEPTANCE. WARRANTY APPLIES TO ENTIRE SCOPE.
- 21. SEE SPECIFICATIONS FOR COLORED TRACER REQUIRED ON ALL NEUTRAL CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS.
- 24. OCCUPANCY SENSORS SHALL BE FULLY FACTORY COMMISSIONED. REFER TO SPECIFICATIONS.
- 25. COORDINATE EXACT MOUNTING HEIGHT OF ALL EXTERIOR FIXTURES, AND EXTERIOR CCTV CAMERAS ROUGH-IN WITH ARCHITECTURAL ELEVATIONS. REFER TO ARCHITECTURAL ELEVATIONS PRIOR TO
- 26. REFER TO SPECIFICATIONS AND DETAIL 3/E7.1 FOR LABELING OF ALL JUNCTION BOXES COVERS A S WELL AS
- 28. ALL FIRE ALARM CONDUIT, JUNCTION BOXES, AND J-BOX COVERS SHALL BE RED IN COLOR.
- 29. OUTLETS SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED BEHIND UNIT. SEE DETAIL 1/E1.0.
- 30. REFER TO SPECIFICATIONS FOR LABELING OF ALL JUNCTION BOX COVERS AS WELL AS I.D. TAGS FOR EACH OCCUPANCY SENSOR POWER PACK. SEE DETAIL 3/E7.1.
- 31. ELECTRICAL GEAR MANUFACTURER SHALL PROVIDE 1/4" SCALE PLANS WITH EQUIPMENT SUBMITTALS
- 33. ALL RECEPTACLES AND SWITCHES SHALL BE SIDEWIRED. SEE DETAIL 19/E7.0. CONTRACTOR MAY ELECT TO
- SPECIFICATIONS. ALL RECEPTACLES SHALL BE TAMPER RESISTANT, SPECIFICATION GRADE.
- 35. ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL
- 36. ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED. CAP OFF ALL STUB UP CONDUIT, INSTALL
- LABEL NOTING LOCATION OF CONDUIT STUB OUT. SEE DETAIL 8/E7.0.
- 37. ALL CONDUCTORS SHALL BE COPPER, WITH THE EXCEPTION OF ALUMINUM FEEDERS AS NOTED ON THE
- 38. SEE SPECIFICATIONS FOR ACCEPTABLE USE OF "MC" CABLE.
- 39. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TR) RATED.

GENERAL NOTES:

- 1. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- CENTER LINE OF THE OUTLET BOX.
- 3. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION
- ROUTED CONCEALED IN WALL.
- SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT
- 9. ALL LIGHT FIXTURES SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
- 10. ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R.
- ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
- 12. PROVIDE 120 VOLT POWER TO EXTERIOR BELL FOR FIRE ALARM SPRINKLER FROM NEAREST 120 VOLT CIRCUIT. COORDINATE EXACT LOCATION WITH INSTALLER. INTERLOCK TO FIRE ALARM.
- DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
- 14. REFER TO SPECIFICATIONS FOR HANGER SUPPORT WIRES REQUIRED FOR FIXTURES.
- BE GALVANIZED RIGID STEEL.
- 16. PROVIDE CONCRETE HOUSEKEEPING CURB AT ALL TRANSFORMERS AND PANELBOARDS.
- FURNITURE PLAN.

- 22. ROUTE NEUTRAL CONDUCTOR DOWN TO SWITCH BOX CONTAINING WALL MOUNTED OCCUPANCY SENSORS.
- 23. PROVIDE 120 VOLT POWER CONNECTION TO IRRIGATION SYSTEM CONTROL PANEL. STUB OUT TWO (2)-2" CONDUITS FROM CONTROL PANEL TO EXTERIOR FOR CONTROL SYSTEM CONDUCTORS (BY OTHERS).
- COORDINATE EXACT LOCATION WITH INSTALLER.
- ROUGHING IN.
- I.D. TAGS FOR DISCONNECTS, TRANSFORMERS AND PANELBOARDS.
- 27. ANY LOW VOLTAGE CABLING (NOT ROUTED IN CONDUIT) SHALL BE SUPPORTED APPROPRIATELY WITH J-HOOKS OF APPROVED SUPPORT MEANS. TY-WRAPPING SUCH TO CONDUIT, STRUCTURAL MEMBERS, OR CEILING GRID SUPPORT WIRE IS <u>NOT</u> ALLOWED.

- BREAKER SERVING EWC SHALL BE GFCI BREAKER. DISCONNECTS AND PANELBOARDS. PROVIDE ENGRAVED I.D. TAGS ON TEE GRID. CEILINGS DIRECTLY BELOW
- SHOWING ALL GEAR PLACEMENT WITH DIMENSIONS SHOWN.
- 32. ALL THHN / THWN WIRE SHALL HAVE A FACTORY INSTALLED COLOR CODED OUTER JACKET. CONTRACTOR IS TO NOTE THAT ALL FEEDER CONDUCTORS SHALL HAVE FULL COLOR CODED OUTER JACKET INTEGRAL TO THE CONDUCTOR INSULATION. USE OF COLOR PHASING TAPE IS <u>NOT</u> ALLOWED.
- USE FACTORY TERMINATED MALE / FEMALE QUICK CONNECTS. (P&S "PLUGTAIL" OR EQUAL). SEE
- 34. REFER TO SPECIFICATIONS FOR LABELING REQUIRED AT ALL JUNCTION BOX COVERS. LABEL IN ACCORDANCE AS NOTED.
- BE PERMANENT MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.

TYPE A	DESCRIPTION LED FIXTURE, 2' x 2' RECESSED CEILING GRID TYPE EDGE-LIT FLAT PANEL FIXTURE WITH SINGLE PIECE INJECTION FRAME AND SMOOTH WHITE LENS.	Watts 28 W	LUMENS 3300	COLOR TEMP 3500 K	MANUFACTURERS NOTES LITHONIA "EPANL" SERIES METALUX, COLUMBIA, ORACLE, CREE
ASM	LED FIXTURE, 2' x 2' SURFACE MOUNT TYPE EDGE-LIT FLAT PANEL FIXTURE WITH SINGLE PIECE INJECTION FRAME AND SMOOTH WHITE LENS. "SM" DENOTES SURFACE MOUNT KIT.	28 W	3300	3500 K	LITHONIA "EPANL" SERIES METALUX, COLUMBIA, ORACLE, CREE
С	4' STRIP LIGHT FIXTURE SURFACE MOUNTED WITH WHITE ACRYLIC LENS AND WHITE FINISH. (SURFACE, STEM, OR CHAIN SUSPEND WHERE REQUIRED)	35 W	4500	3500 K	LITHONIA "ZL1N" SERIES METALUX, COLUMBIA, H.E. WILLIAMS, CREE
C2	2' STRIP LIGHT FIXTURE SURFACE MOUNTED WITH WHITE ACRYLIC LENS AND WHITE FINISH. (SURFACE, STEM, OR CHAIN SUSPEND WHERE REQUIRED)	15 W	2315	3500 K	LITHONIA "ZL1N" SERIES METALUX, COLUMBIA, H.E. WILLIAMS, CREE
D	RECESSED COMMERCIAL GRADE DOWNLIGHT WITH 6" APERTURE WITH WHITE TRIM . FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH OPEN DOWNLIGHT REFLECTOR AND PASSIVE COOLING.	20 W	1500	3500 K	LITHONIA "LDN6" SERIES PEACHTREE, PRESCOLITE, HALO COMMERCIAL, ELITE LIGHTING, LSI, SPECTRUM
DW	RECESSED COMMERCIAL GRADE DOWNLIGHT WITH 6" APERTURE WITH WHITE TRIM . FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH OPEN DOWNLIGHT REFLECTOR AND PASSIVE COOLING.	20 W	1500	3500 K	LITHONIA "LDN6" SERIES PEACHTREE, PRESCOLITE, HALO COMMERCIAL, ELITE LIGHTING, LSI, SPECTRUM
DWW	RECESSED COMMERCIAL GRADE DOWNLIGHT WITH 6" APERTURE WITH WHITE TRIM . FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH "WALL WASH" REFLECTOR AND PASSIVE COOLING.	20 W	1500	3500 K	LITHONIA "LDN6" SERIES PEACHTREE, PRESCOLITE, HALO COMMERCIAL, ELITE
E	EMERGENCY LIGHTING UNIT, COMPACT, LOW PROFILE, DIE-CAST ALUMINUM HOUSING WITH DARK BRONZE FINISH, 120/277 VOLT INPUT, UL LISTED FOR WET LOCATIONS. MOUNT DIRECTLY ABOVE DOOR FRAME. PROVIDE WITH INTEGRAL PHOTOCELL.	11 W	635	4000 K	LIGHTING, LSI, SPECTRUM LITHONIA "AFFINITY" SERIES COLUMBIA, LIGHTOLIER, DAYBRITE, METALUX, EVENLITE
EM	LOW-PROFILE LED EMERGENCY BUG EYE FIXTURE WITH RECHARGEABLE BATTERY BACKUP WITH A MINIMUM OF 90 MINUTES OF EMERGENCY POWER. HOUSING WILL BE IMPACT RESISTANT, SCRATCH-RESISTANT AND CORROSION PROOF. FIXTURE SHALL HAVE A TEST SWITCH AND A STATUS INDICATOR. FIXTURE SHALL HAVE HAVE 2-TWIN HEADS WITH A WHITE FINISH. BATTERIES SHALL BE NI-CAD BATTERIES.			0 K	LITHONIA "ELM2L" SERIES SURE-LITE, DUAL-LITE, EMERGI-LITE, McPHILBEN, EVENLITE
F	INTERIOR WALL SCONCE WITH 17" OVERALL HEIGHT, 5" DIAMATER BACKPLATE, 12" EXTENSION, WITH LINEN, WHITE SHADE (4.5" TOP, 6" HEIGHT) 1.5 LB WEIGHT. PROVIDE WITH POLISHED NICKEL FINISH (VERIFY WITH ARCHITECT) AND ONE E12 CANDELABRA BASE, B10 SCREW IN LED LAMP	3 W	300	3500 K	DAWSON "619311PN-674" SERIES OR APPROVED EQUAL
F2	INTERIOR THREE LIGHT WALL SCONCE WITH 12" OVERALL HEIGHT, 5" DIAMATER BACKPLATE, 3-6" EXTENSIONS, WITH THREE LINEN, WHITE SHADES, 2.5 LB WEIGHT. PROVIDE WITH POLISHED NICKEL FINISH (VERIFY WITH ARCHITECT) AND THREE E12 CANDELABRA BASE, B10 SCREW IN LED LAMP	3 W	300	3500 K	DAWSON "119331PN-674" SERIES OR APPROVED EQUAL
G	12" LED CIRCULAR HIGHBAY WITH FROSTED LENS OPTION. MOUNT FIXTURE DIRECTLY TO STRUCTURE, PROVIDE SAFETY CHAIN, ATTACHED TO STRUCTURE, TO HOUSING, AND TO REFLECTOR. PROVIDE WIREGUARD.	100 W	14000	3500 K	SPECGRADE "SATURN" SERIES LITHONIA,COOPER, COLUMBIA, ORACLE, CREE
Н	CHANDELIER (TEN ARM) PENDANT WITH 42.75" OVERALL FIXTURE HEIGHT, 5.0" DIAMATER CANOPY/BACKPLATE, 10' CHAIN, 12.50 LB WEIGHT. PROVIDE WITH POLISHED NICKEL FINISH (VERIFY WITH ARCHITECT) AND TEN (10) - E12 CANDELABRA BASE, 60W SCREW IN LED LAMP.	22 W	1440	3500 K	CAPITAL LIGHTING "HOLDEN 445901PN" SERIES OR APPROVED EQUAL
J	LINEAR PENDANT WITH 15.25" OVERALL FIXTURE HEIGHT, 5.5" DIAMATER CANOPY/BACKPLATE, ADJUSTABLE STEM, WITH FABRIC, FOUR (4) OFF-WHITE SHADES (2.38" TOP, 4.63" BOTTOM, 8.0" HEIGHT), 7.72 LB WEIGHT. PROVIDE WITH POMPEII BRONZE FINISH (VERIFY WITH ARCHITECT) AND FOUR (4) - E12 CANDELABRA BASE, 2.7 WATT SCREW IN LED LAMP.	11 W	720	3500 K	TROY LIGHTING "MARCEL F6299" SERIES OR APPROVED EQUAL
К	CEILING FAN, PENDANT MOUNTED, WITH NO LIGHT KIT. PROVIDE WITH 5-52" BLADES, 6" DOWNROD, 3 SPEED AC REVERSIBLE MOTOR, INDOOR/OUTDOOR RATED, WITH BRONZE HOUSING AND BRONZE BLADES (VERIFY FINISH WITH ARCHITECT). 120VOLT INPUT.	38 W		0 K	HUNTER "RAINSFORD" SERIES HARBOR BREEZE HAMPTON BAY WEATHERFORD
M	LINE VOLTAGE BENDABLE ALUMINUM TRACK. PROVIDE LENGTH AS SHOWN ON DRAWINGS WITH ALL POWER SUPPLIES, ADAPTERS, COUPLERS, ISOLATORS, SUPPORTS, END CAPS, AND ALL MOUNTING HARDWARE TO COMPLETELY MOUNT TRACK AND FIXTURES TO CEILING. PROVIDE SEVEN (7) SPOT TYPE TRACK HEADS (2000 LUMEN, 20W, EXTENDED LENS, DIMMABLE). FINISHES SHALL BE SELECTED BY ARCHITECT.	140 W	14000	3500 K	BRUCK LIGHTING "ZONYX TRACK SYSTEM" WITH LX SPOT TRACK SPOT HEADS MP LIGHTING
N	PENDANT MOUNTED COMMERCIAL GRADE CYLINDER DOWNLIGHT WITH 6" APERTURE WITH WHITE TRIM . FIXTURE SHALL BE CONSTRUCTED OUT OF HEAVY GAUGE ALUMINUM WITH SELF FLANGED ANODIZED REFLECTOR. 0-10V DIMMABLE. PROVIDE WITH PENDANT OF LENGTH TO MOUNT TO 10'A.F.F. TO BOTTOM OF FIXTURE.	58 W	5000	3500 K	LITHONIA "LDN6CYL" SERIES PEACHTREE, PRESCOLITE, HALO COMMERCIAL, ELITE LIGHTING, LSI, SPECTRUM
OA	L.E.D COMPACT STANCHION MOUNTED FLOOD LIGHT WITH OVERALL DIMENSIONS OF 12"x8"x3" WITH DIE-CAST ALUMINUM HOUSING. FLOODLIGHT SHALL HAVE HORIZONTAL FLOOD BEAM DISTRIBUTION AND INTEGRAL SLIPFITTER. FINISH TO BE SELECTED BY ARCHITECT. DIVISION 26 TO AIM FIXTURE AT BUILDING SIGNAGE. LAMPS: L.E.D. DRIVER: MULTIVOLT ELECTRONIC	78 W	9,700	4000 K	LITHONIA DSXF2 LED- SERIES CREE GARDCO HUBBELL PHILIPS KIM
ОВ	HUNT 1 LIGHT OUTDOOR WALL LANTERN WITH 20.75" OVERALL HEIGHT, 5.5x19" BACKPLATE, 9 LB WEIGHT. PROVIDE WITH BLACK FINISH (VERIFY WITH ARCHITECT) AND ONE 7 WATT GU10 TWIST LOCK LED LAMP.	7 W			CAPITAL LIGHTING HUNT 1 "934612BK-GL" SERIES OR APPROVED EQUAL
Р	THREE LIGHT PENDANT MOUNTED FIXTURE, 19.00" DIAMETER 16.25" HEIGHT, MAX HANGING HEIGHT OF 142.25", MINIMUM HANGING HEIGHT OF 16.25" 8 LB WEIGHT. PROVIDE WITH POLISHED NICKEL FINISH (VERIFY WITH ARCHITECT) AND THREE E26 MEDIUM BASE, A19 SCREW IN LED LAMPS.	60 W			CAPITAL LIGHTING "ABBIE 342631PN" OR APPROVED EQUAL
Q	L.E.D. WALL MOUNTED FIXTURE, TRAPEZOID HOUSING. TYPE III DISTRIBUTION WITH FINISH TO BE SELECTED BY ARCHITECT. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	50 W	6000	4000 K	LITHONIA "WST LED" SERIES GARDCO, HUBBELL, LUMARK, CREE
X	EXIT SIGN, WITH LED LAMP SOURCE, WHITE HOUSING, RED PANEL COVER, UNIFORM LAMP DIFFUSER AND 120/277 VOLT INPUT. PROVIDE BACK-UP BATTERY PACK W/ MAINTENANCE FREE NI-CAD BATTERIES IN ORDER TO PROVIDE MINIMUM 90 MINUTES OF ILLUMINATION. "WP" DENOTES WET LOCATION RATING.			0 K	LITHONIA "QUANTUM" SERIES SURE-LITE, DUAL-LITE, EMERGI-LITE, CHLORIDE, LIGHTGUARD, EVENLITE
EMERGENCY BATTERY PACK	RECESSED AND SURFACE MOUNTED LED EMERGENCY TROFFER FIXTURES SHALL BE PROVIDED WITH BATTERY IN DRIVER COMPARTMENT AND SHALL PROVIDE MINIMUM 1400 LUMEN OUTPUT FROM FOR A MINIMUM OF 90 MINUTE PROVIDED INDICATOR LIGHT AND TEST SWITCH AT BALLAST COMPARTMENT. LED BOWN HOLTO NOTES EMERGENCY OLD UP TO FOURTH AND TAKE BATTERY BASK THAT CHALL BE	ES AND SHAL	L BE		IOTA, SILTRON, LITHONIA CHLORIDE, SIDE-LITE, EMERGI-LITE LIGHTGUARD, LITE-ALARMS
OR	2. LED DOWNLIGHTS NOTED EMERGENCY SHALL BE EQUIPPED WITH SOLID STATE BATTERY PACK THAT SHALL PROBERERGENCY LIGHTING WHEN AC POWER FAILS AND PROVIDED WITH REMOTE MOUNTED INDICATOR LIGHT AND TE		UTES OF		

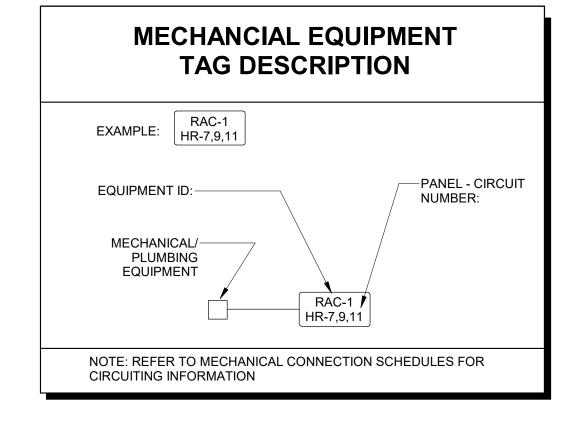
LIGHTING FIXTURE SCHEDULE

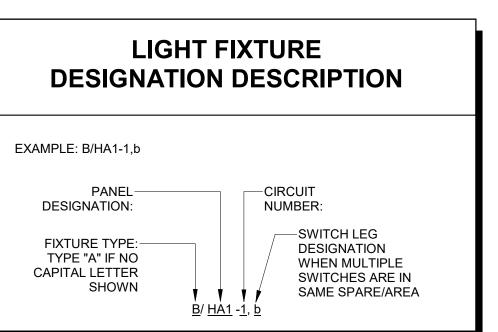
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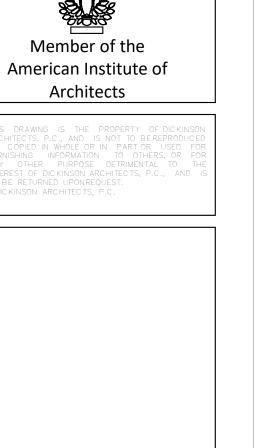
B. WHERE "APPROVED EQUAL" IS LISTED IN THE MANUFACTURER COLUMN, FIXTURES MUST BE SUBMITTED AS A SUBSTITUTION FOR APPROVAL PRIOR TO BID SUBMISSION.

A. CONTRACTOR SHALL REFER TO SPECIFICATIONS REGARDING PROVIDING ADDITIONAL SPARE LAMPS, LENSES, AND GLOBES.

- C. ALL FIXTURE VOLTAGES SHALL BE MULTI VOLT TYPE UNLESS OTHERWISE NOTED.
- D. PROVIDE DIMMING DRIVER, 0-10VDC,1-100% ON ALL FIXTURES EXCEPT TYPES E AND X.







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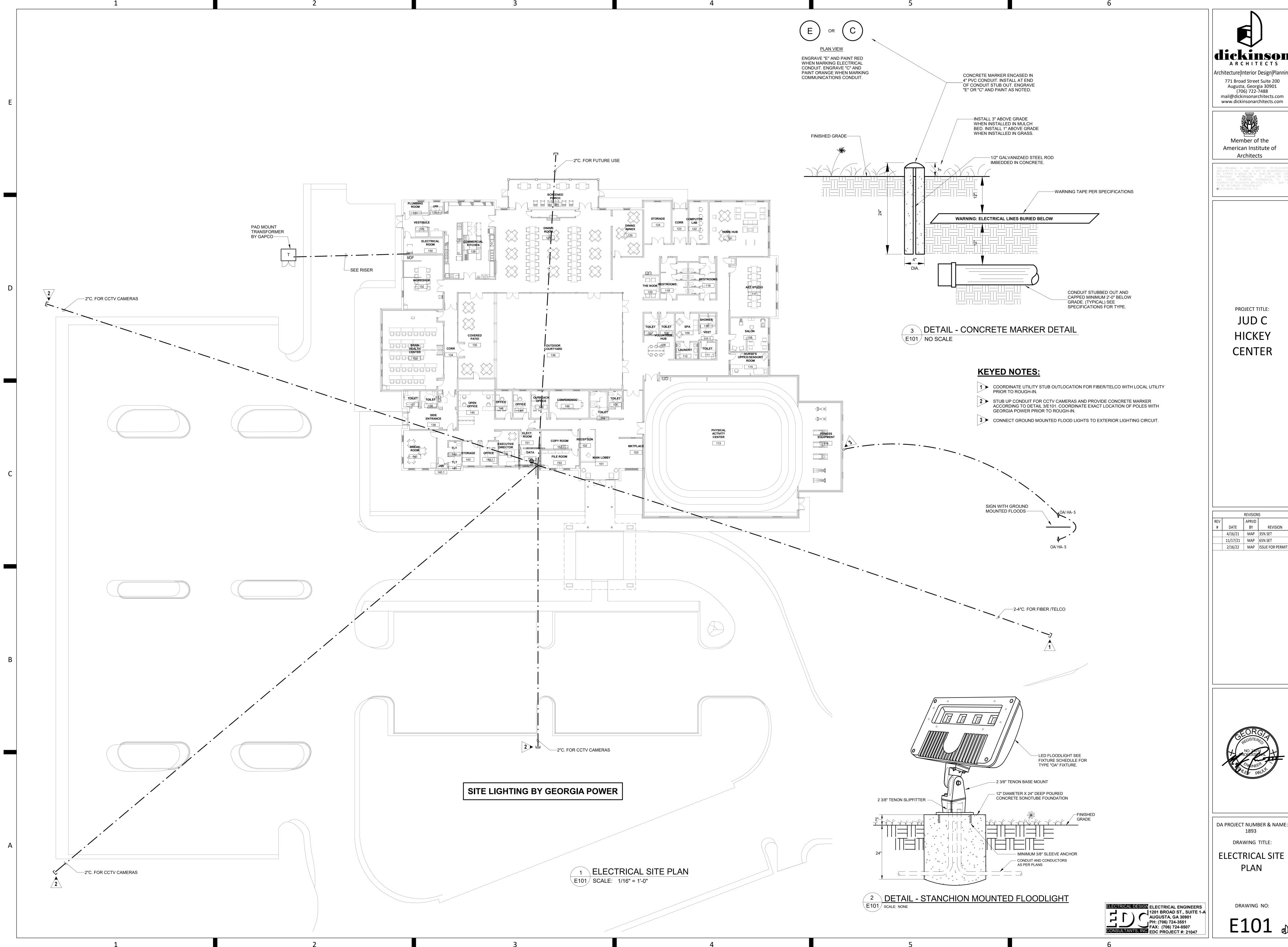
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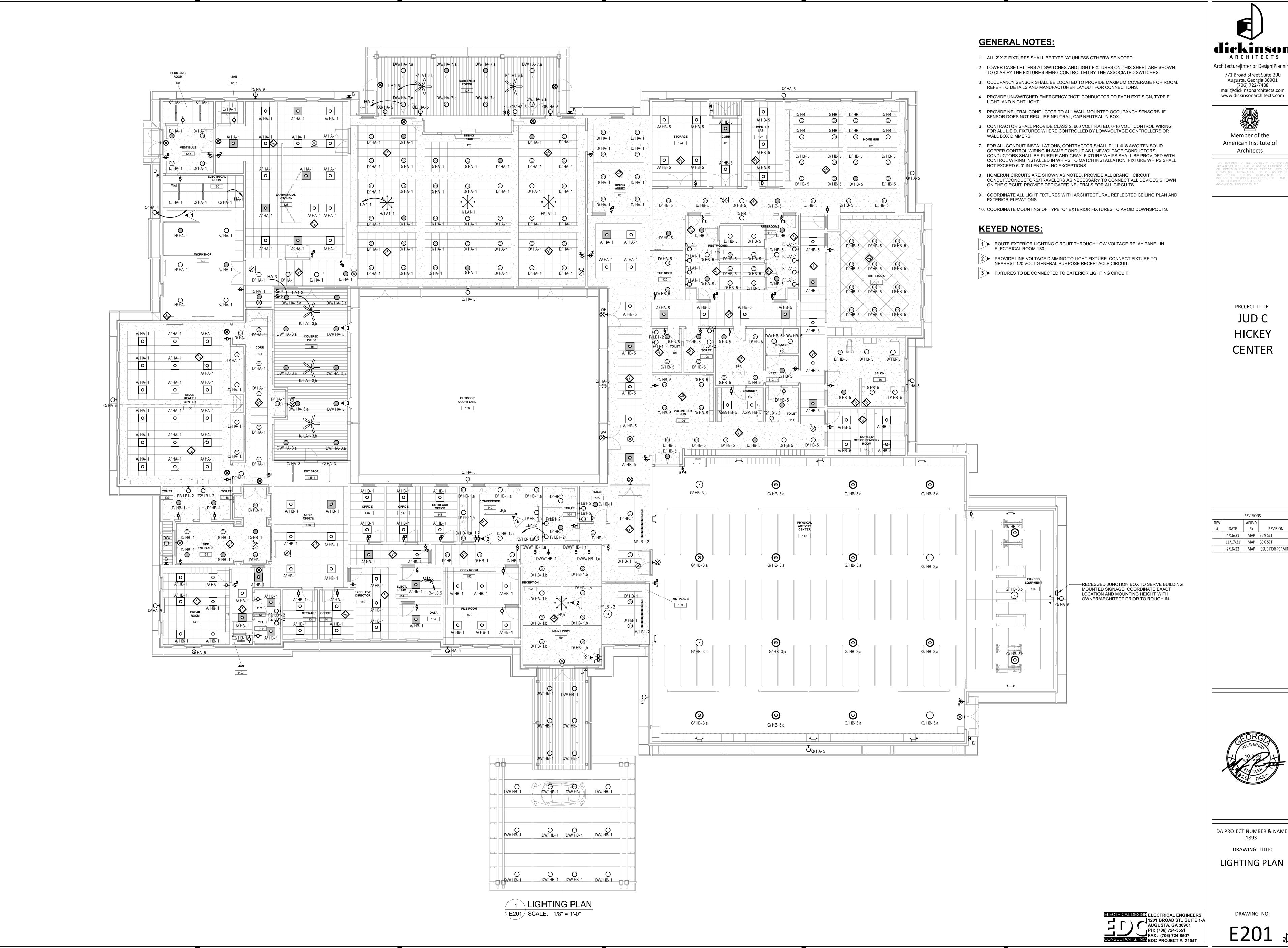




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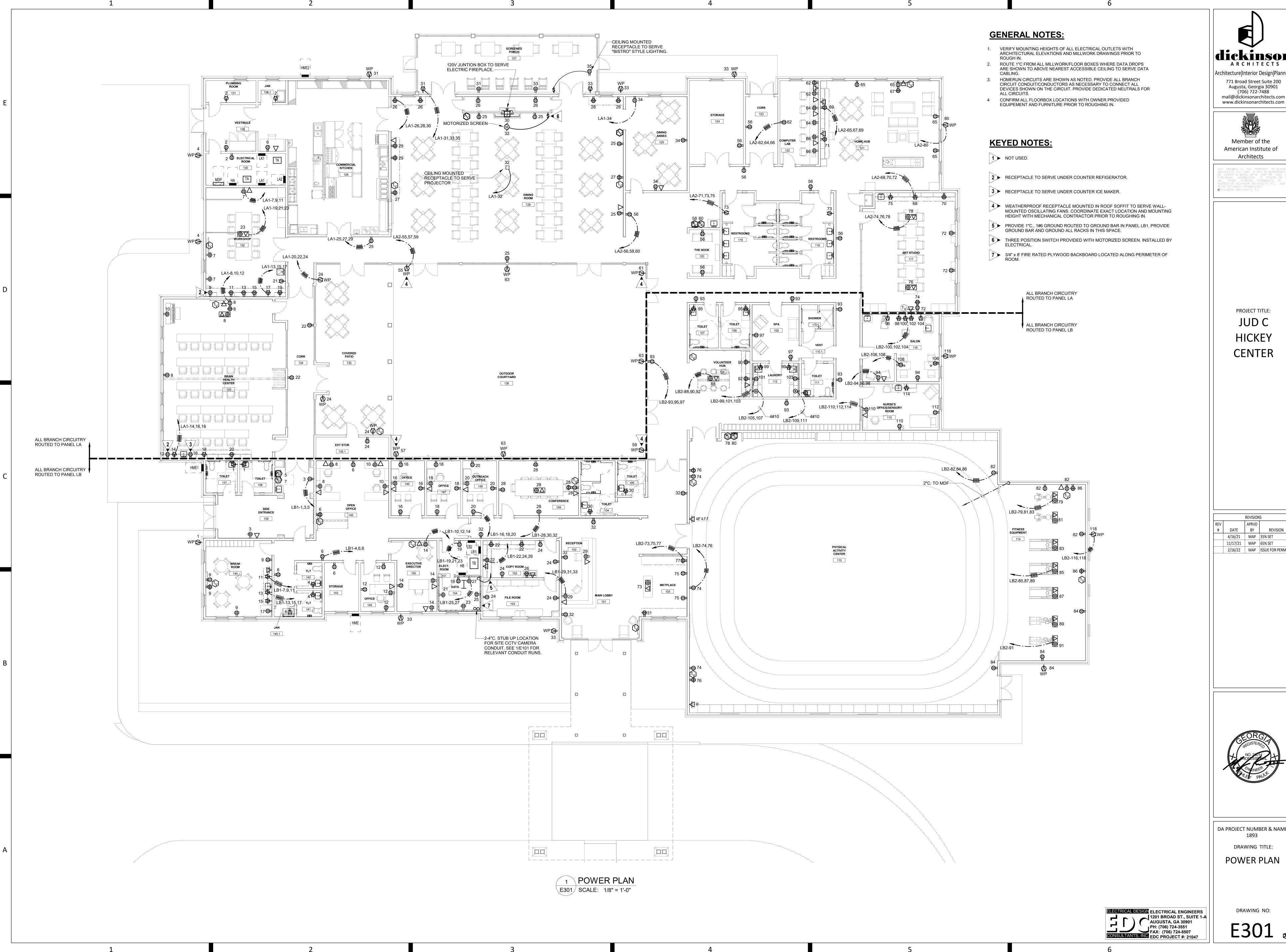
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POWER PLAN

	KITCHEN EQUIPMENT SCHEDULE											
ITEM			CHARA	CTERISTIC	S			CIRCUIT	CONDUIT & WIRE		MTG	
NO.	DESCRIPTION	VOLT	PHASE	MCA	MOCP	LOAD (KVA)	PANEL	NUMBER	SIZE	CONNECTION	HT	NOTE
3	ICE MACHINE	120 V	1	15.0 A	20.0 A	1440 VA	LK1	14	3/4"C,2#12,1#12G			
7	SODA/ ICE DISPENSER	120 V	1	1.9 A	15.0 A	180 VA	LK1	16	3/4"C,2#12,1#12G			
8	ICED TEA BREWER	120 V	1	1.9 A	15.0 A	180 VA	LK1	18	3/4"C,2#12,1#12G			
9	TEA DISPENSER	120 V	1	1.9 A	15.0 A	180 VA	LK1	20	3/4"C,2#12,1#12G			
11	COFFEE MAKER	208 V	1	7.2 A	15.0 A	1200 VA	LK1	15,17	3/4"C,2#12,1#12G			
12	HOT FOOD TABLE	120 V	1	20.0 A	20.0 A	1920 VA	LK1	22	3/4"C,2#12,1#12G			
16	REFRIGERATOR	120 V	1	7.8 A	15.0 A	744 VA	LK1	12	3/4"C,2#12,1#12G			
17	FREEZER	208 V	1	17.5 A	20.0 A	2912 VA	LK1	19,21	3/4"C,2#12,1#12G			
18	FREEZER	208 V	1	17.5 A	20.0 A	180 VA	LK1	23,25	3/4"C,2#12,1#12G			
22	CONVECTION OVEN	120 V	1	11.3 A	15.0 A	1080 VA	LK1	8	3/4"C,2#12,1#12G			
23	SANDWICH PREP REFRIGERATOR	120 V	1	12.5 A	15.0 A	1200 VA	LK1	10	3/4"C,2#12,1#12G			
24	HOLDING CABINET	120 V	1	20.0 A	20.0 A	2100 VA	LK1	6	3/4"C,2#12,1#12G			
28	MIXER	120 V	1	1.9 A	15.0 A	180 VA	LK1	4	3/4"C,2#12,1#12G			
29	MEAT SLICER	120 V	1	12.3 A	20.0 A	1176 VA	LK1	2	3/4"C,2#12,1#12G			
38	DISHWASHER	120 V	1	12.5 A	15.0 A	1200 VA	LK1	24	3/4"C,2#12,1#12G			

ENLARGED POWER PLAN - KITCHEN

E302 SCALE: 1/4" = 1'-0"



- REFER TO ELECTRICAL CONNECTION SCHEDULES PER THIS SHEET FOR CIRCUIT DESIGNATIONS; WIRE AND CONDUIT SIZE; DISCONNECT MEANS; AND OTHER ELECTRICAL REQUIREMENTS FOR KITCHEN EQUIPMENT.
- 2. HOMERUN CIRCUITS FOR ALL OTHER CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.
- 3. DIMENSIONS INDICATED ARE TO BE VERIFIED AND ADJUSTED AS REQUIRED BY THE EQUIPMENT OR FIELD CONDITIONS. DIMENSIONS SHOWN DO NOT ALLOW FOR OBSTRUCTIONS ON WALLS AT FIXTURE HEIGHTS. ALL DIMENSIONS ARE FROM FINISHED WALL AND FLOOR LINES AND ARE AS ACCURATE AS CAN BE DETERMINED AT THIS TIME. NO RESPONSIBILITY IS ACCEPTED OR IMPLIED FOR ANY DISCREPANCIES BETWEEN DIMENSIONS SHOWN AND ACTUAL FINISHED DIMENSIONS, NOR FOR ANY VARIATIONS IN SERVICE REQUIREMENTS ON FIXTURES DELIVERED TO THE JOB SITE.
- 4. ELECTRICAL CONTRACTORS TO FURNISH ALL LABOR AND MATERIALS TO MAKE FINAL CONNECTIONS INCLUDING ALL DISCONNECTS, CONTROL PANELS, CORDS, PLUGS, ECT.
- ALL EXPOSED OUTLETS IN KITCHEN AND SERVING AREA SHALL BE CAST METAL AND WATERPROOF.
- 6. ALL FLEXIBLE CONDUIT SHALL BE WATERPROOF.
- 7. WHERE KITCHEN EQUIPMENT SHOP DRAWINGS CALL FOR DIRECT CONNECTION AND A RECEPTACLE IS SHOWN ON DRAWING, PROVIDE RECEPTACLE, PLUG AND CORD SET.
- 8. INTERLOCK RANGE HOOD FIRE SUPPRESSION SYSTEM WITH SHUNT TRIP BREAKERS SERVING EQUIPMENT UNDER THE HOOD, SUCH THAT UPON SYSTEM ACTIVATION ALL
- PEFORE POLICUING IN ANY OUTLETS OF ORDERING ANY RECEPTACLES. PLUCS, CORP.
- 9. BEFORE ROUGHING IN ANY OUTLETS OR ORDERING ANY RECEPTACLES, PLUGS, CORD SETS, DISCONNECTS OR ANY ITEMS NECESSARY FOR THE CONNECTION OF KITCHEN EQUIPMENT, THE CONTRACTOR SHALL CONSULT THE SHOP DRAWINGS FOR THE EQUIPMENT ACTUALLY BEING FURNISHED (UNDER THE CONTRACTOR OR BY THE OWNER) FOR THE PROJECT AND SHALL PROVIDE AND INSTALL DEVICES. CIRCUITS AND ANY OTHER APPURTENANCES COMPATIBLE WITH THE EQUIPMENT FURNISHED SHALL BE PROVIDED AT NO COST TO THE OWNER.
- 10. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL.
- 11. COORDINATE EXACT LOCATION OF WALK IN COOLER AND FREEZER COMPRESSOR LOCATIONS WITH ARCHITECT.
- 12. PROVIDE CORD AND PLUG SET FOR EACH PIECE OF KITCHEN EQUIPMENT LOCATED BENEATH HOOD, SHOWN AS FED FROM A DUPLEX RECEPTACLE.
- 13. ALL DISCONNECTS LOCATED IN KITCHEN AND DISH WASHING AREA SHALL BE NEMA 4X
- 14. REFER TO KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULES FOR CIRCUIT DESIGNATIONS; WIRE AND CONDUIT SIZE; DISCONNECT MEANS; AND OTHER ELECTRICAL REQUIREMENTS FOR KITCHEN EQUIPMENT.
- 15. VERIFY ALL ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, CURRENT) OF EXISTING EQUIPMENT FURNISHED BY OWNER. WITH NAMEPLATE DATA PRIOR TO CONNECTING. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 16. COORDINATE FINAL LOCATING OF EXISTING AND NEW EQUIPMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.

GENERAL NOTES (KITCHEN):

- ELECTRICAL CONTRACTOR IS TO VERIFY ENLARGED SCALE KITCHEN PLAN REQUIREMENTS.
- 2. ELECTRICAL CONTRACTOR IS TO MAKE ALL EQUIPMENT OPERABLE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- 3. ELECTRICAL CONTRACTOR IS TO VERIFY WITH FOOD SERVICE CONTRACTOR'S SUBMITTALS TO ENSURE PROPER INSTALLATION.
- 4. ELECTRICAL CONTRACTOR IS TO PROVIDE CONTROL WIRING FROM WALK-IN CONDENSOR TO WALK-IN EVAPORATOR.
- 5. ELECTRICAL CONTRACTOR IS TO SEAL ANY AND ALL CONDUIT WHICH PENETRATE COOLER & FREEZER COMPARTMENTS TO PREVENT AIR CIRCULATION AND SUBSEQUENT CONDENSATION BUILD-UP WITHIN CONDUIT AND/OR EQUIPMENT.
- 6. VERIFY ALL REQUIREMENTS FOR ANY EXISTING EQUIPMENT THAT WILL BE REVISED.7. VERIFY REQUIREMENTS FOR ALL EQUIPMENT NOT SUPPLIED BY FOOD SERVICE
- CONTRACTOR.
- 8. ALL 120 VOLT EQUIPMENT NOT SUPPLIED WITH CORD AND PLUG BY MANUFACTURER IS TO BE CONNECTED TO JB OR ELECTRICAL CONTRACTOR IS TO SUPPLY CORD AND PLUG
- 9. REQUIREMENTS UNDER HOOD ARE BASED ON CENTERLINE OF HOOD.
- 10. ALL 120 VOLT, 20 AMP RECEPTACLES IN KITCHEN, DISHWASH AND SERVICE AREA SHALL HAVE WEATHER PROOF COVERS. "WP" INDICATES "IN USE" COVER. "WPH" INDICATES HINGED COVER.





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POWER PLAN -KITCHEN

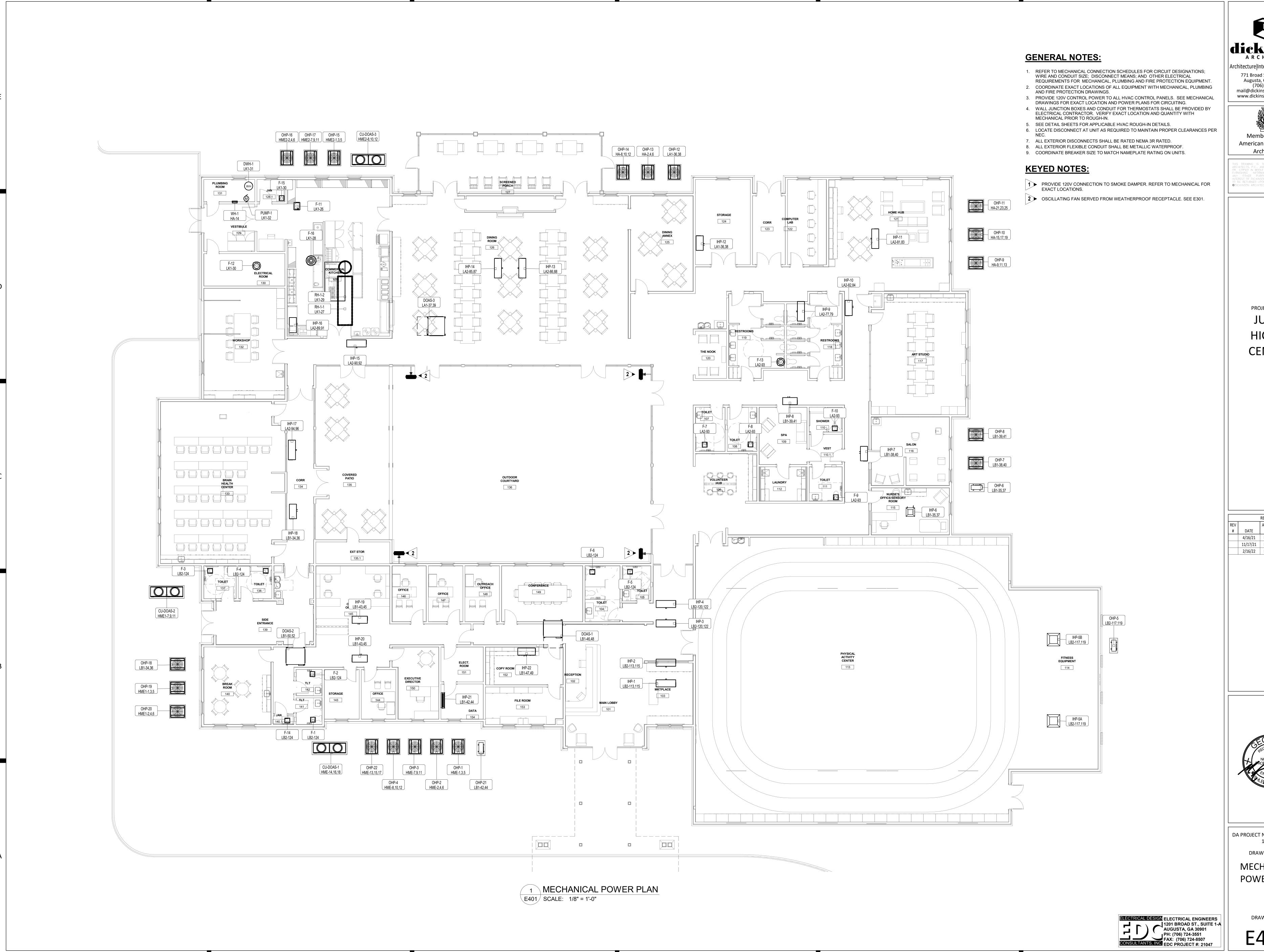
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E302

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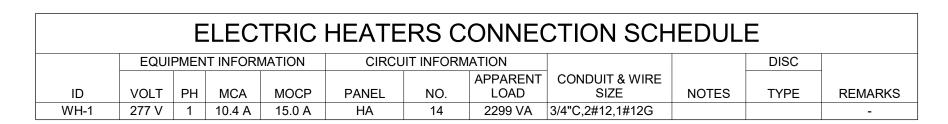


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MECHANICAL POWER PLAN

DRAWING NO:

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	CONDENSING UNIT CONNECTION SCHEDULE											
		EQUI	PMEN	IT INFORM	MATION	CIRCL	JIT INFORM	MATION			DISC	
								APPARENT	CONDUIT & WIRE			
	ID	VOLT	PH	MCA	MOCP	PANEL	NO.	LOAD	SIZE	NOTES	TYPE	REMARKS
С	U-DOAS-1	480 V	3	18.0 A	25.0 A	HME	14,16,18	11972 VA	3/4"C,3#10,1#10G		FS	30/3/3R
С	U-DOAS-2	480 V	3	18.0 A	25.0 A	HME1	7,9,11	11972 VA	3/4"C,3#10,1#10G		FS	30/3/3R
С	U-DOAS-3	480 V	3	18.0 A	25.0 A	HME2	8,10,12	11972 VA	3/4"C,3#10,1#10G		FS	30/3/3R

	DED	ICA	ATEC	OUT	DOOR	AIR L	JNIT C	ONNECTIO	N SCH	EDUL	E
	EQUI	PMEN	T INFORI	MATION	CIRCL	JIT INFORM	IATION			DISC	
							APPARENT	CONDUIT & WIRE			
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	LOAD	SIZE	NOTES	TYPE	REMARKS
DOAS-1	208 V	1	4.0 A	15.0 A	LB1	46,48	664 VA	3/4"C,2#12,1#12G			-
DOAS-2	208 V	1	4.0 A	15.0 A	LB1	50,52	664 VA	3/4"C,2#12,1#12G			-
DOAS-3	208 V	1	4.0 A	15.0 A	LA1	37,39	664 VA	3/4"C,2#12,1#12G			-

			WA	TER H	EATER	RS CC	NNEC ⁻	TION SCHE	DULE		
	EQU	IPMEI	NT INFOR	MATION	CIRCL	JIT INFORM	MATION			DISC	
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	NOTES	TYPE	REMARKS
DWH-1	120 V	1	6.3 A	15.0 A	LK1	31	600 VA	3/4"C,2#12,1#12G			-
					RECI	CULA	ATING F	PUMP			
	EQU	IPME	NT INFOR	MATION	CIRCL	JIT INFORM	MATION			DISC	
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	NOTES	TYPE	REMARKS
PUMP-1	120 V	1	5.5 A	15.0 A	LK1	32	528 VA				-

				OUT	DOOR	HEAT	PUMP	SCHEDUL	E		
	EQUI	PMEN	T INFORM	MATION	CIRCL	JIT INFORM	MATION			DISC	
							APPARENT	CONDUIT & WIRE			
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	LOAD	SIZE	NOTES	TYPE	REMARKS
OHP-1	480 V	3	8.0 A	15.0 A	HME	1,3,5	5321 VA	3/4"C,3#12,1#12G		FS	-
OHP-2	480 V	3	8.0 A	15.0 A	HME	2,4,6	5321 VA	3/4"C,3#12,1#12G		FS	-
OHP-3	480 V	3	8.0 A	15.0 A	HME	7,9,11	5321 VA	3/4"C,3#12,1#12G		FS	-
OHP-4	480 V	3	8.0 A	15.0 A	HME	8,10,12	5321 VA	3/4"C,3#12,1#12G		FS	-
OHP-5	208 V	1	25.0 A	31.0 A	LB2	117,119	4160 VA	3/4"C,2#8,1#10G		FS	-
OHP-6	208 V	1	11.0 A	28.0 A	LB1	35,37	1830 VA	3/4"C,2#10,1#10G		FS	-
OHP-7	208 V	1	12.0 A	20.0 A	LB1	38,40	1997 VA	3/4"C,2#12,1#12G		FS	-
OHP-8	208 V	1	12.0 A	20.0 A	LB1	39,41	1997 VA	3/4"C,2#12,1#12G		FS	-
OHP-9	480 V	3	9.0 A	15.0 A	HA	9,11,13	5986 VA	3/4"C,3#12,1#12G		FS	-
OHP-10	480 V	3	6.0 A	15.0 A	HA	15,17,19	3991 VA	3/4"C,3#12,1#12G		FS	-
OHP-11	480 V	3	9.0 A	15.0 A	HA	21,23,25	5986 VA	3/4"C,3#12,1#12G		FS	-
OHP-12	208 V	1	12.0 A	20.0 A	LA1	36,38	1997 VA	3/4"C,2#12,1#12G		FS	-
OHP-13	480 V	3	9.0 A	15.0 A	HA	2,4,6	5986 VA	3/4"C,3#12,1#12G		FS	-
OHP-14	480 V	3	9.0 A	15.0 A	HA	8,10,12	5986 VA	3/4"C,3#12,1#12G		FS	-
OHP-15	480 V	3	9.0 A	15.0 A	HME2	1,3,5	5986 VA	3/4"C,3#12,1#12G		FS	-
OHP-16	480 V	3	6.0 A	15.0 A	HME2	2,4,6	3991 VA	3/4"C,3#12,1#12G		FS	-
OHP-17	480 V	3	8.0 A	15.0 A	HME2	7,9,11	5321 VA	3/4"C,3#12,1#12G		FS	-
OHP-18	208 V	1	12.0 A	15.0 A	LB1	34,36	1997 VA	3/4"C,2#12,1#12G		FS	-
OHP-19	480 V	3	6.0 A	15.0 A	HME1	1,3,5	3991 VA	3/4"C,3#12,1#12G		FS	-
OHP-20	480 V	3	6.0 A	15.0 A	HME1	2,4,6	3991 VA	3/4"C,3#12,1#12G		FS	-
OHP-21	208 V	1	11.0 A	28.0 A	LB1	42,44	1830 VA	3/4"C,2#10,1#10G		FS	-
OHP-22	480 V	3	8.0 A	15.0 A	HME	13,15,17	5321 VA	3/4"C,3#12,1#12G		FS	-

				IND	OOR H	IEAT F	PUMP S	SCHEDULE	•		
	EQUI	PMEN	IT INFOR	MATION	CIRCU	JIT INFORM	IATION			DISC	
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	NOTES	TYPE	REMARKS
IHP-1	208 V	1	6.1 A	15.0 A	LB2	113,115	1020 VA	1"C,3#6,1#10G			-
IHP-2	208 V	1	6.1 A	15.0 A	LB2	113,115	1020 VA	1"C,3#6,1#10G			-
IHP-3	208 V	1	6.1 A	15.0 A	LB2	120,122	1020 VA	1"C,3#6,1#10G			-
IHP-4	208 V	1	6.1 A	15.0 A	LB2	120,122	1020 VA	1"C,3#6,1#10G			-
IHP-5A	208 V	1	1.0 A	15.0 A	LB2	117,119	166 VA				-
IHP-5B	208 V	1	1.0 A	15.0 A	LB2	117,119	166 VA				-
IHP-6	208 V	1	1.0 A	15.0 A	LB1	35,37	166 VA				-
IHP-7	208 V	1	1.9 A	15.0 A	LB1	38,40	313 VA				-
IHP-8	208 V	1	1.9 A	15.0 A	LB1	39,41	313 VA				-
IHP-9	208 V	1	8.6 A	15.0 A	LA2	77,79	1436 VA	1"C,3#6,1#10G			-
IHP-10	208 V	1	6.1 A	15.0 A	LA2	82,84	1020 VA				-
IHP-11	208 V	1	8.6 A	15.0 A	LA2	81,83	1436 VA	1"C,3#6,1#10G			-
IHP-12	208 V	1	1.9 A	15.0 A	LA1	36,38	313 VA				-
IHP-13	208 V	1	8.6 A	15.0 A	LA2	86,88	1436 VA	1"C,3#6,1#10G			-
IHP-14	208 V	1	8.6 A	15.0 A	LA2	85,87	1436 VA	1"C,3#6,1#10G			-
IHP-15	208 V	1	8.6 A	15.0 A	LA2	90,92	1436 VA	1"C,3#6,1#10G			-
IHP-16	208 V	1	6.1 A	15.0 A	LA2	89,91	1020 VA				-
IHP-17	208 V	1	6.1 A	15.0 A	LA2	94,96	1020 VA	1"C,3#6,1#10G			-
IHP-18	208 V	1	1.9 A	15.0 A	LB1	34,36	313 VA				-
IHP-19	208 V	1	6.1 A	15.0 A	LB1	43,45	1020 VA				-
IHP-20	208 V	1	6.1 A	15.0 A	LB1	43,45	1020 VA				-
IHP-21	208 V	1	1.0 A	15.0 A	LB1	42,44	166 VA				-
IHP-22	208 V	1	6.1 A	15.0 A	LB1	47,49	1020 VA	1"C,3#6,1#10G			-

A. FEEDER SHOWN IS TO OUTDOOR UNIT. PROVIDE 3/4"C., 4#12 ROUTED FROM OUTDOOR UNIT TO INDOOR UNIT MOTOR RATED TOGGLE SWITCH AND CONNECT TO UNIT. MOTOR RATED TOGGLE SWITCH SHALL BE LOCATED ADJACENT TO UNIT. ALL WIRING BETWEEN TOGGLE SWITCH, INDOOR UNIT AND TO OUTDOOR UNIT SHALL BE

B. PROVIDE DISCONNECT AT OUTDOOR UNIT.

	DISCONNECT TYPES													
TYPE	FURNISH	DESCRIPTION												
СВ	DIV. 26	DIV. 26 - CIRCUIT BREAKER												
FS	DIV. 26	DIV. 26 - FUSED SWITCH												
MCP	DIV. 26	DIV. 26 - MOTOR CIRCUIT PROTECTOR												
MRS	DIV. 26	DIV. 26 - MOTOR RATED SWITCH												
NFS	DIV. 26	DIV. 26 - NON-FUSED SWITCH												
(E)	-	EXISTING												
CB (M)	MANUF.	MANUF - CIRCUIT BREAKER												
NFS (M)	MANUF.	MANUF - NON-FUSED SWITCH												

				FAN	IS COI	NNEC	TION S	SCHEDULE			
	EQUI	PMEN	T INFORM	MATION	CIRCU	IIT INFORM	ATION			DISC	
							APPARENT	l l			
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	LOAD	SIZE	NOTES	TYPE	REMARKS
F-1	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-2	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-3	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-4	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-5	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-6	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-7	120 V	1	0.3 A	15.0 A	LA2	93	30 VA	3/4"C,2#12,1#12G			-
F-8	120 V	1	0.3 A	15.0 A	LA2	93	30 VA	3/4"C,2#12,1#12G			-
F-9	120 V	1	0.3 A	15.0 A	LA2	93	30 VA	3/4"C,2#12,1#12G			-
F-10	120 V	1	0.3 A	15.0 A	LA2	93	30 VA	3/4"C,2#12,1#12G			-
F-11	120 V	1	12.3 A	20.0 A	LK1	26	1176 VA	3/4"C,2#12,1#12G			-
F-12	120 V	1	1.1 A	15.0 A	LK1	30	108 VA	3/4"C,2#12,1#12G			-
F-13	120 V	1	4.0 A	15.0 A	LA2	93	384 VA	3/4"C,2#12,1#12G			-
F-14	120 V	1	0.3 A	15.0 A	LB2	124	30 VA	3/4"C,2#12,1#12G			-
F-15	120 V	1	0.3 A	15.0 A	LK1	30	30 VA	3/4"C,2#12,1#12G			-
F-16	120 V	1	6.5 A	15.0 A	LK1	28	560 VA	3/4"C,2#12,1#12G			-
RH-1-1	120 V	1	12.3 A	20.0 A	LK1	27	1176 VA	3/4"C,2#12,1#12G			-
RH-1-2	120 V	1	6.5 A	15.0 A	LK1	29	560 VA	3/4"C,2#12,1#12G			-

SCHEDULE NOTES:

- A. INTERLOCK FAN WITH LIGHTING IN PROVIDE A RELAY AS REQUIRED. COORDINATE WITH DIVISION 23.
- B. INTERLOCK WITH WALL SWITCH. COORDINATE WITH DIVISION 23.
- C. CONTROLLED VIA EMCS BY DIVISION 23.
- D. CONTROLLED VIA THERMOSTAT BY DIVISION 23.
- E. PROVIDE ALL CONNECTIONS BETWEEN BREAKER, KEF-1 AND HOOD CONTROL PANEL PER MANUFACTURER'S RECOMMENDATIONS.
- F. INTERLOCK FAN WITH GAS DETECTION IN LAB. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL DRAWINGS.
- G. INTERLOCK FAN WITH FUME HOOD. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL DRAWINGS.
- H. INTERLOCK FAN WITH ROOF TOP AC UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL DRAWINGS.
- I. PROVIDE DOOR SWITCH AND COORDINATE ROUGH IN WITH DOOR HARDWARE.

2/16/22 MAP ISSUE FOR PERMIT



- A. BREAKER IN PANEL SHALL MATCH NAMEPLATE MOCP OF UNIT. ADJUST BREAKER SIZE TO MATCH NAMEPLATE DURING SHOP DRAWING REVIEW.
- B. PROVIDE DUCT DETECTOR. COORDINATE WITH MECHANICAL AND FIRE ALARM. C. PROVIDE DISCONNECT. SEE DETAILS DISCONNECT ROUGH IN.

GENERAL NOTES:

1. DISCONNECT SHOWN FOR UNIT SHALL BE LOCATED ABOVE ACESSBILE CEILING. PROVIDE CONDUIT CONCEALED IN WALL FROM DISCONNECT TO FLUSH JUNCTION BOX AT WATER HEATER WITH SEALTITE FROM JUNCTION BOX TO UNIT CONNECTION POINT. PROVIDE AN IDENTIFICATION TAG ON WATER HEATER AND CEILING GRID ABOVE UNIT NOTING DISCONNECT IS LOCATED ABOVE CEILING.

> DRAWING TITLE: MECHANICAL CONNECTION SCHEDULES

DA PROJECT NUMBER & NAME:

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PROJECT TITLE:

HICKEY

CENTER

4/16/21 MAP 35% SET 11/17/21 | MAP | 65% SET

ELECTRICAL DESIGN ELECTRICAL ENGINEERS
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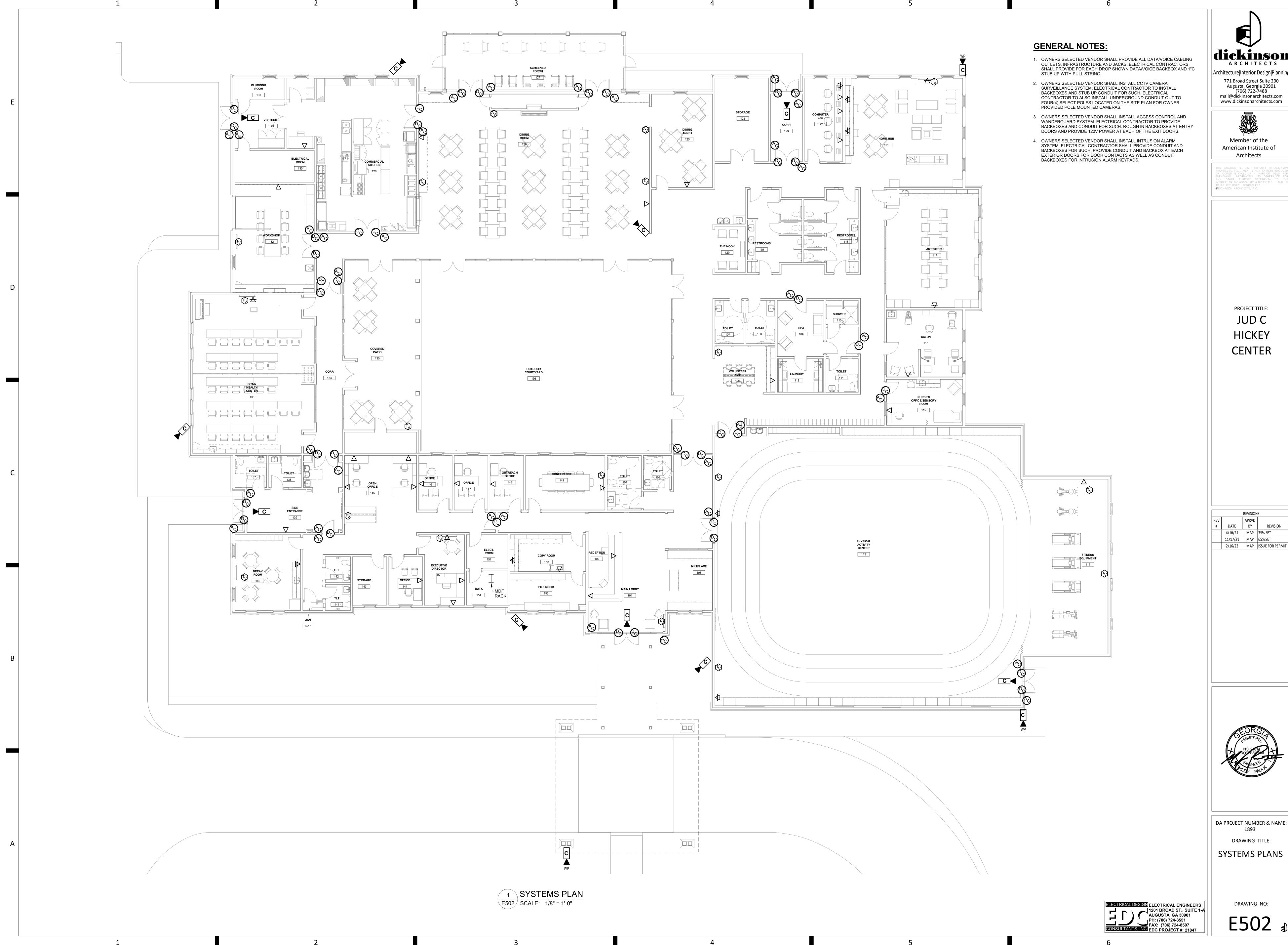


PROJECT TITLE: JUD C HICKEY CENTER

4/16/21 MAP 35% SET | 11/17/21 | MAP | 65% SET | 2/16/22 | MAP | ISSUE FOR PERMIT



DA PROJECT NUMBER & NAME: DRAWING TITLE: FIRE ALARM SYSTEM PLAN



dickinson

mail@dickinsonarchitects.com

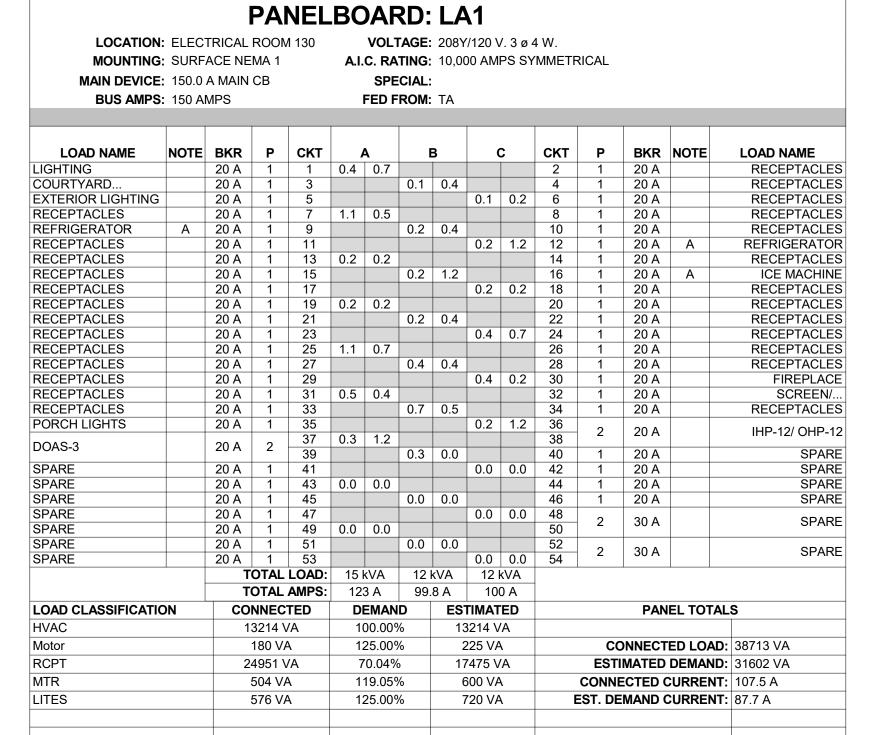
| 11/17/21 | MAP | 65% SET | 2/16/22 | MAP | ISSUE FOR PERMIT



MAI BREAM	N DEVICE: MCE KER AMPS: 600	A		A.I.C. RATIN SPECIA	I G : 22,000 /	77 V. 3 ø 4 W AMPS SYMN		
E	BUS AMPS: 600	AMPS		FED FRO	VIVI:			
			SEC	TION No. 1				
СКТ		DESCRIPTION/	NAMEPLATE		POLES	RATING	Load	NOTES
1		PANEL	"HA"		3	200 A	73097 VA	
2		PANEL	"HB"		3	150 A	78094 VA	
3		HMI	 E		3	100 A	58529 VA	
4		HME	2		3	100 A	27269 VA	
5		TRANSFOR	MER "TK"		3	70 A	21891 VA	
6		SPAF	RE		3	100 A	0 VA	
7		SPAF	RE		3	100 A	0 VA	
8		SPAF	RE		3	100 A	0 VA	
9		SPAF	RE		3	60 A	0 VA	
10		SPAC	CE				0 VA	
11		SPAC	CE				0 VA	
12		T.V.S	5.S		3	60 A	0 VA	
	ASSIFICATION	CONNECTED	DEMAND	ESTIMATED		DANI	L TOTALS	
HEAT	ASSII ICATION	2899 VA	100.00%	2899 VA		LWINE	L TOTALS	
HVAC		150831 VA	100.00%	150831 VA				
KTCH		6360 VA	70.00%	4452 VA		C	ONN. LOAD:	257 kVA
LITES		13146 VA	125.00%	16432 VA			IAND LOAD:	223 kVA
MTR		4852 VA	106.06%	5146 VA			. CURRENT:	309.0 A
Motor		180 VA	125.00%	225 VA	ES		CURRENT:	268.6 A
Other		348 VA	100.00%	348 VA				
RCPT		83247 VA	56.01%	46623 VA				

		ı		NEL	.DC	ЖГ	VD.	П	4						
LOCATION:	ELEC	TRICAL	ROOM	/I 130		VOL ₁	TAGE:	480Y	′/277 \	/. 3 ø 4	١W.				
MOUNTING:	SURF.	ACE NE	MA 1		A.I.	C. RA	TING:	22,00	00 AM	PS SY	MMETR	RICAL			
MAIN DEVICE:	200.0	A MLO				SPE	CIAL:								
BUS AMPS:	200 AI	MPS					ROM:								
LOAD NAME	NOTE	BKR	Р	СКТ		4	E	3		С	СКТ	Р	BKR	NOTE	LOAD NAME
LIGHTING		20 A	1	1	3.3	2.0					2				
COURTYARD		20 A	1	3			0.3	2.0			4	3	20 A		OHP-13
EXTERIOR LIGHTING		20 A	1	5					1.0	2.0	6				
PORCH LIGHTING		20 A	1	7	0.2	2.0					8				
				9			2.0	2.0			10	3	20 A		OHP-14
OHP-9		20 A	3	11					2.0	2.0	12				
				13	2.0	2.3	4.0	0.0			14	1	20 A		WH-
OUD 40		20.4	2	15			1.3	0.0	1.2	0.0	16 18	2	20.4		CDADI
OHP-10		20 A	3	17 19	1.3	0.0			1.3	0.0	20	3	30 A		SPARI
				21	1.3	0.0	2.0	0.0			22				
OHP-11		20 A	3	23			2.0	0.0	2.0	0.0	24	3	30 A		SPARE
OIII 11		2071		25	2.0	0.0			2.0	0.0	26	Ü	007		OI / II KE
				27		0.0	0.0	0.0			28				
SPARE		15 A	3	29					0.0	0.0	30	3	15 A		SPARE
				31	0.0	0.0					32				
SPARE		20 A	1	33			0.0	0.0			34	1	20 A		SPARE
SPARE		20 A	1	35					0.0	0.0	36	1	20 A		SPARE
SPARE		20 A	1	37	0.0	14.7					38				
SPARE		20 A	1	39			0.0	12.0			40	3	70 A	TF	RANSFORMER "TA
SPARE		20 A	1	41					0.0	12.0	42				
				LOAD:		κVA	21			kVA					
				AMPS:		7 A		2 A		I A					
LOAD CLASSIFICATION	ON	СО	NNEC	TED	D	EMAN	D	ES	TIMAT	ED			PAN	IEL TOTAL	S
HVAC		4	1148 \	/A	1	00.009	%	41	1148 V	/A					
Motor			180 V	4	1:	25.009	%	2	225 VA	4		C	DNNECT	ED LOAD:	73097 VA
Other			348 V	٩	1	00.009	6	3	348 V <i>A</i>	4		EST	IMATED	DEMAND:	67234 VA
RCPT		2	4951 \	/A	7	0.04%	,)	17	7475 V	/A		CONN	ECTED (CURRENT:	87.9 A
MTR			504 V			19.059			300 VA					CURRENT:	
HEAT			299 V			00.009			299 V			· · · ·			
LITES			5030 V			25.00%			288 V						
NOTES:			,030 V	^	1.	20.007	' υ	0.	200 V	^					

		•		NEL											
LOCATION	I: ELEC	T. ROOM	M 151			VOL	TAGE:	480Y	′/277 \	/. 3 ø 4	4 W.				
MOUNTING	S: SURF	ACE NE	MA 1		A.I.	C. RA	TING:	22,00	00 AM	PS SY	MMETF	RICAL			
MAIN DEVICE	: 150.0	A MLO				SPE	CIAL:								
BUS AMPS	: 150 A	MPS				FED F	ROM:	MDP							
LOAD NAME	NOTE	BKR	Р	CKT		4	E	3	(3	CKT	Р	BKR	NOTE	LOAD NAME
LIGHTING		20 A	1	1	2.6	0.0					2	1	20 A		SPAR
GYM LIGHTING		20 A	1	3			1.9	0.0			4	1	20 A		SPAR
LIGHTING		20 A	1	5					2.9	0.0	6	1	20 A		SPAR
SPARE		20 A	1	7	0.0	0.0					8	1	20 A		SPAR
SPARE		20 A	1	9			0.0	0.0			10	1	20 A		SPAR
SPARE		20 A	1	11					0.0	0.0	12	1	20 A		SPAR
00405		00.4		13	0.0	0.0	0.0	0.0			14	•	45.4		0045
SPARE		30 A	3	15			0.0	0.0	0.0	0.0	16	3	15 A		SPAR
				17 19	0.0	23.8			0.0	0.0	18 20				
SPARE		30 A	3	21	0.0	23.0	0.0	23.8			22	3	100 A		TRANSFORMER "TE
SPAIL		30 A	3	23			0.0	23.0	0.0	23.2	24	3	100 A		TIVANOI ORIVILIA TI
		Т	OTAL	LOAD:	26	kVA	26 1	kVA		kVA					
				AMPS:		i A		7 A		A	1				
LOAD CLASSIFICATI	ON	СО	NNEC	TED	DI	EMAN	D	ES	TIMAT	ED			PAN	IEL TOT	ALS
HVAC		2	3883 V	/A	10	00.009	6	23	3883 V	/A					
RCPT		4	7176 \	/A	6	0.60%	,)	28	3588 V	/A		CC	NNECT	ED LOA	D : 78094 VA
MTR			210 V	4	10	03.579	6	2	218 VA	4		ESTI	MATED	DEMAN	D : 61767 VA
LITES		8	3116 V	A	12	25.00%	6	10)145 V	/A		CONNE	CTED (CURREN	T: 93.9 A
											E	ST. DE	MAND (CURREN	T : 74.3 A



			PAI	NEL	BC)AF	RD:	LE	31						
LOCATION	I: ELEC	T. ROON	<i>l</i> l 151			VOL1	ΓAGE:	208Y	′/120 \	/. 3 ø 4	1 W.				
MOUNTING	SURF	ACF NF	MA 1		Δ.Ι.						MMETR	RICAL			
					, u.i.			•	70 7 1111		1V11V1 = 11	(107 (
MAIN DEVICE			СВ				CIAL:								
BUS AMPS	3: 225 Al	MPS				FED F	ROM:	ТВ							
LOAD NAME	NOTE	BKR	Р	СКТ		4	E	3		3	СКТ	Р	BKR	NOTE	LOAD NAME
RECEPTACLES		20 A	1	1	0.5	0.8					2	1	20 A		LIGHTIN
RECEPTACLES		20 A	1	3	3.0	3.0	0.4	0.5			4	.	20 A		RECEPTACLE
WATER COOLER	Α	20 A	1	5			0.1	0.0	0.8	1.1	6	1	20 A		RECEPTACLE
WATER COOLER	A	20 A	1	7	0.8	0.7			0.0	1.1	8	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	9	0.0	0.7	1.3	0.7			10	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	11			1.5	5.1	0.2	0.9	12	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	13	1.2	1.3			0.2	0.9	14	1	20 A		RECEPTACLE
MICROWAVE		20 A	1	15	1.4	1.0	1.2	0.9			16	1	20 A	+	RECEPTACLE
REFRIGERATOR	Λ	20 A	1	17			1.2	0.9	1.2	0.9	18	<u> </u>	20 A	+	RECEPTACLE
RECEPTACLES	A	20 A 20 A	1	17	0.4	0.9			1.2	บ.ช	20	1	20 A	+	RECEPTACLE
RECEPTACLES		20 A	1	21	0.4	0.9	0.4	0.5			22	1	20 A		RECEPTACLE
RCPT		20 A	1	23			0.4	0.5	0.4	0.9	24	1	20 A		RECEPTACLE
			1		0.4	1.5			0.4	0.9					
RECEPTACLES		20 A	-	25	0.4	1.5	0.4	1.2			26	1	20 A		COPIE
RECEPTACLES		20 A	1	27			0.4	1.3	0.7	0.4	28	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	29	0.0	0.0			0.7	0.4	30	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	31	0.2	0.9	0.4	4.0			32	1	20 A		RECEPTACLE
RECEPTACLES		20 A	1	33 35			0.4	1.2	1.0	1.2	34 36	2	20 A		IHP-18/ OHP-
HP-6/ OHP-6		20 A	2	37	1.0	1.2			1.0	1.2	38		20.4		
			_	39			1.2	1.2			40	2	20 A		IHP-7/ OHP
HP-8/ OHP-8		20 A	2	41					1.2	1.0	42		20.4		
LID 40/ ILIDOO		00.4		43	1.0	1.0					44	2	20 A		IHP-21/ OHP-2
HP-19/ IHP20		20 A	2	45			1.0	0.3			46		00.4		D040
LID 00		20.4	_	47					0.5	0.3	48	2	20 A		DOAS
HP-22		20 A	2	49	0.5	0.3					50		20.4		DOAC
SPARE		20 A	1	51			0.0	0.3			52	2	20 A		DOAS
SPARE		20 A	1	53					0.0	0.0	54	1	20 A		SPAF
SPARE		20 A	1	55	0.0	0.0					56	1	20 A		SPAF
SPARE		20 A	1	57			0.0	0.0			58	1	20 A		SPAF
SPARE		20 A	1	59					0.0	0.0	60	1	20 A		SPAF
SPARE		20 A	1	61	0.0	0.0					62				
SPARE		20 A	1	63			0.0	0.0			64	2	30 A		SPAF
SPARE		20 A	1	65					0.0	0.0	66		60:		
SPARE		20 A	1	67	0.0	0.0					68	2	30 A		SPAF
SPARE		20 A	1	69	3.0	3.0	0.0	0.0			70				
SPARE		20 A	1	71			3.0	2.0	0.0	0.0	72	2	30 A		SPAF
	1		•	LOAD:	24	κVA	24	kVΑ		κVA	. = 1		1		
		T	OTAL	AMPS:	19	9 A	199	.2 A	19	3 A					
OAD CLASSIFICATI	ON	CO	NNEC	TED	DI	EMAN	D	ES	TIMAT	ED			PAN	EL TOTA	ALS
HVAC		2	3883 \	/A	10	00.009	6	23	3883 V	Ά					
RCPT		4	7176 \	/A	6	0.60%	, o	28	3588 V	Ά		CC	DNNECT	ED LOA	D : 70766 VA
MTR			210 V			03.57%			218 V						D : 52604 VA
						25.00%									T: 196.4 A
LITES		-	800 VA	١	1.7	25.00%	′0	1	000 V	Н.					
											E	ST. DE	MAND (URREN	T : 146.0 A

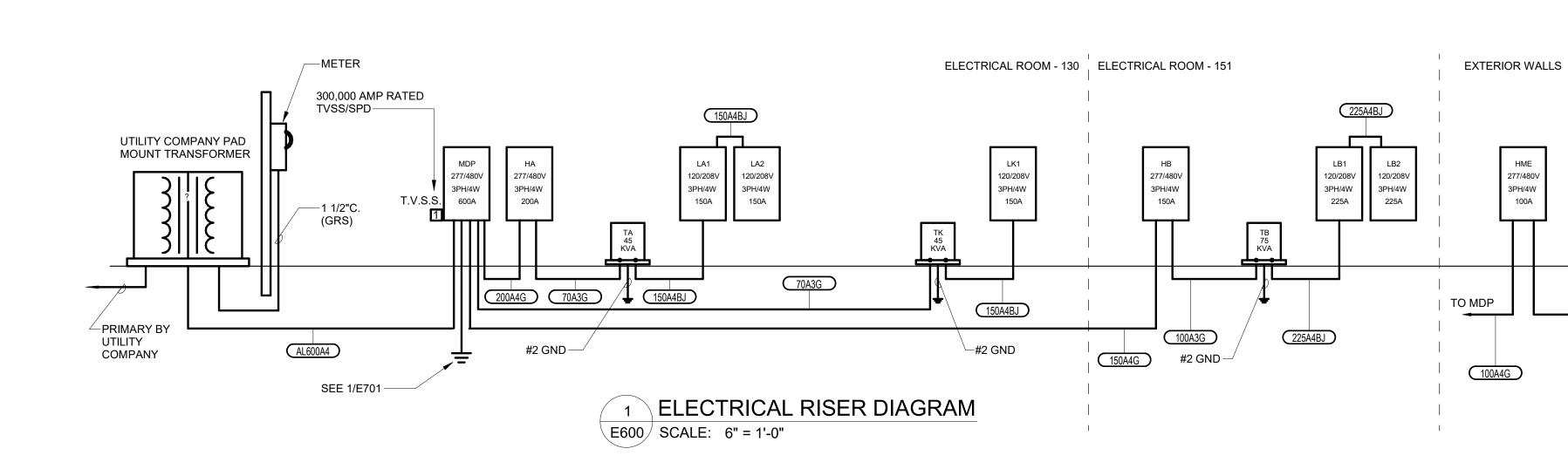
LOCATIO	N: ELEC	TRICAL	ROOM	1 130		VOL ₁	TAGE:	208Y	/120 V	1.3ø4	١W.				
MOUNTIN	G: SURF	ACE NE	MA 1		A.I.	C. RA	TING:	10,00	00 AMI	PS SY	MMETR	ICAL			
MAIN DEVIC	E : 150.0	A MLO				SPE	CIAL:								
BUS AMP						FED F									
DOS AMI	5. 150 A	IVII O					IXOIVI.	LAI							
LOAD NAME	NOTE	BKR	P	СКТ		Δ.		3		2	СКТ	Р	BKR	NOTE	LOAD NAME
F-17		20 A	1	55	0.2	1.6	_				56	1	20 A		RECEPTACL
F-18		20 A	1	57	V		0.2	0.8			58	1	20 A	A	WATER COOL
F-19		20 A	1	59					0.2	0.8	60	1	20 A	A	WATER COOL
F-20		20 A	1	61	0.2	0.9					62	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	63			0.5	0.7			64	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	65					0.7	0.7	66	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	67	0.2	0.2					68	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	69			0.4	0.2			70	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	71					0.4	0.5	72	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	73	0.4	0.2					74	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	75			0.2	0.4			76	1	20 A		RECEPTACL
IHP-9		20 A	2	77					0.7	0.4	78	1	20 A		RECEPTACL
INF-9		20 A		79	0.7	0.2					80	1	20 A		RECEPTACL
IHP-11		20 A	2	81			0.7	0.5			82	2	20 A		IHP
				83	0.7	0.7			0.7	0.5	84				
IHP-14		20 A	2	85	0.7	0.7	0.7	0.7			86	2	20 A		IHP-
				87			0.7	0.7	0.5	0.7	88				
IHP-16		20 A	2	89	0.5	0.7			0.5	0.7	90	2	20 A		IHP
FANC		20.4	4	91 93	0.5	0.7	0.5	0.5			92				
FANS SPARE		20 A	1	95			0.5	0.5	0.0	0.5	94 96	2	20 A		IHP
SPARE SPARE		20 A 20 A	1	95	0.0	0.0			0.0	0.5	98	1	20 A		SPA
SPARE SPARE		20 A	1	99	0.0	0.0	0.0	0.0			100	1	20 A		SPA SPA
SPARE		20 A	1	101			0.0	0.0	0.0	0.0	100	- 1	20 A		SFA
SPARE		20 A	1	103	0.0	0.0			0.0	0.0	104	2	30 A		SPA
SPARE		20 A	1	105	0.0	0.0	0.0	0.0			104				
SPARE		20 A	1	107			0.0	0.0	0.0	0.0	108	2	30 A		SPA
OI AINL				LOAD:	7 k	:VA	7 k	:VA		VA	100				
				AMPS:		Α		4 A	61						
LOAD CLASSIFICAT	ION	CO	NNEC	TED	D	EMAN	D	ES	ГІМАТ	ED			PAN	EL TOTAL	S
HVAC		10	0240 \	/A	1	00.00%	6	10	240 V	Ά					
RCPT		10	0935 \	/A		5.73%)467 V			CC	DNNECT	ED LOAD:	21332 VA
MTR			504 V			19.05%			00 VA					DEMAND:	
IVITIX		+	004 V	`	- 1	13.007			700 V	`					
														CURRENT:	
											E	ST. DE	MAND (CURRENT:	58.2 A

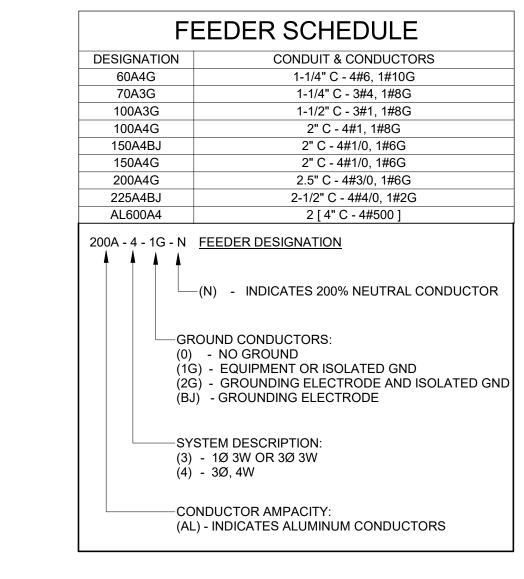
LOCATION MOUNTING					۸ ۱			: 208Y			1 W. MMETF	DIC A I			
	_	_	IVIA I		A.I.			,	JU AIVI	P3 31	IVIIVIE I F	KICAL			
MAIN DEVICE							CIAL								
BUS AMPS	5: 225 A	MPS				FED F	ROM	LB1							
			I		I		Ī						T	T	
LOAD NAME	NOTE	BKR	Р	СКТ		A		В		3	СКТ	Р	BKR	NOTE	LOAD NAME
RECEPTACLES		20 A	1	73	0.4	0.5					74	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	75			0.4	0.4			76	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	77					0.2	0.8	78	1	20 A	Α	WATER COOL
STATIONARY BIKE		20 A	1	79	0.2	0.8					80	1	20 A	Α	WATER COOL
STATIONARY BIKE		20 A	1	81			0.2	1.3			82	1	20 A		RECEPTACL
TREADMILL		20 A	1	83					0.2	1.1	84	1	20 A		RECEPTACL
TREADMILL		20 A	1	85	0.2	0.5					86	1	20 A		RECEPTACL
TREADMILL		20 A	1	87			0.2	0.4			88	1	20 A		RECEPTACL
ELLIPTICAL		20 A	1	89					0.2	0.2	90	1	20 A		RECEPTACL
ELLIPTICAL		20 A	1	91	0.2	0.4					92	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	93			1.1	0.4			94	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	95					0.4	0.2	96	1	20 A		SHAMPOO CHA
RECEPTACLES		20 A	1	97	0.4	0.2				_	98	1	20 A		RECEPTACL
RECEPTACLES		20 A	1	99			0.5	0.2			100	1	20 A		RECEPTACL
WASHER	Α	20 A	1	101					1.5	0.2	102	1	20 A		RECEPTACL
WASHER	Α	20 A	1	103	1.5	0.2			T .	_	104	1	20 A		PEDICURE SI
				105			1.8	0.2			106	1	20 A	l N	MANICURE STATION
DRYER	A	30 A	2	107					1.8	0.2	108	1	20 A		MANICURE STATION
DDVED		20.4		109	1.8	0.5				_	110	1	20 A		RECEPTACL
DRYER	A	30 A	2	111			1.8	0.2			112	1	20 A		RECEPTACL
		00.4		113					1.0	0.2	114	1	20 A		RECEPTACL
IHP-1, IHP-2		20 A	2	115	1.0	0.2					116	1	20 A		RECEPTACL
ILD E/ OLD E		20.4	2	117			2.2	0.2			118	1	20 A		RECEPTACL
IHP-5/ OHP-5		20 A	2	119					2.2	1.0	120	2	20 A		IHP-3, IHF
SPARE		20 A	1	121	0.0	1.0	_				122				
SPARE		20 A	1	123			0.0	0.2			124	1	20 A		FA
SPARE		20 A	1	125					0.0	0.0	126	1	20 A		SPA
SPARE		20 A	1	127	0.0	0.0	0.0	0.0			128	1	20 A		SPA
SPARE		20 A	1	129			0.0	0.0	0.0	0.0	130	1	20 A		SPA
SPARE		20 A	1	131	0.0	0.0			0.0	0.0	132	1	20 A		SPA
SPARE		20 A	1	133	0.0	0.0	0.0	0.0			134	2	30 A		SPA
SPARE		20 A	1	135			0.0	0.0	0.0	0.0	136				
SPARE		20 A	1	137	0.0	0.0			0.0	0.0	138	2	30 A		SPA
SPARE		20 A	1	139	0.0	0.0	0.0	0.0			140				
SPARE SPARE		20 A	1	141			0.0	0.0	0.0	0.0	142 144	2	30 A		SPA
SPARE		20 A	OTAL	143 LOAD :	10	kVA	11	Γ //Λ			144				
				AMPS:	_	KVA DA		kVA .4 A		κVA					
LOAD CLASSIFICATI	ON	L_	NNEC			EMAN			TIMAT	ED.			DAN	IEL TOTA	.
HVAC	ON		3573 V			00.009			573 V				PAN	IEL IUIA	LO
															. 04000 \ / 4
RCPT			3354 \			71.41%			677 V						: 31669 VA
MTR			210 V	4	1	03.579	%	2	218 V <i>A</i>	١		EST	IMATED	DEMAND	: 25044 VA
												CONN	ECTED (CURRENT	: 87.9 A
											E	ST. DE	MAND (CURRENT	: 69.5 A
NOTES:															I
	EAKER.														

___ GROUND

TO MDP

60A4G





A: PROVIDE GFCI BREAKER. B: PROVIDE FEED-THRU LUGS.



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PROJECT TITLE:

HICKEY

CENTER

DATE BY

4/16/21 | MAP | 35% SET 11/17/21 | MAP | 65% SET

2/16/22 MAP ISSUE FOR PERMIT

DA PROJECT NUMBER & NAME: DRAWING TITLE:

POWER RISER DIAGRAM AND PANELBOARD **SCHEDULES**

DRAWING NO:

ELECTRICAL DESIGN ELECTRICAL ENGINEERS
1201 BROAD ST., SUITE 1-A
AUGUSTA, GA 30901
PH: (706) 724-3551
FAX: (706) 724-8507
EDC PROJECT #: 21047

LOCATION	M-					VOLT	LVGE.	400V	/277 \	12 ~ 1	4 \\/					
MOUNTING	VOLTAGE: 480Y/277 V. 3 Ø 4 W.															
		_	IVIA I		A.I.C. RATING: 22,000 AMPS SYMMETRICAL											
MAIN DEVICE	SPECIAL: FED FROM: MDP															
BUS AMPS	S: 100 AI	MPS				FED F	ROM:	MDP								
LOAD NAME	NOTE	BKR	Р	CKT	A		В		С		СКТ	Р	BKR	NOTE	LOAD NAME	
LOAD NAME	NOIL	DIVIN			1.8	1.8	•			_	2	•	Ditit	HOIL		
OHP-1		20 A	3	3			1.8	1.8			4	3	3 20 A		OHP-2	
				5					1.8	1.8	6					
OHP-3		20 A 3		7	1.8	1.8					8	3 2				
			3	9			1.8	1.8	4.0	4.0	10		20 A		OHP-4	
				11 13	1.8	4.0			1.8	1.8	12 14					
OHP-22		20 A 3	3	15	1.0	4.0	1.8	4.0			16	3	25 A		CU-DOAS-1	
				17			1.0	4.0	1.8	4.0	18	3	3 25 A		CO-DOAG-	
SPARE		15 A		19	0.0	0.0					20					
				21			0.0	0.0		2	22	3	15 A		SPARE	
				23					0.0	0.0	24					
		TOTAL LOAD:					kVA 20 kVA									
TOTAL AMPS									.4 A 70 A							
LOAD CLASSIFICAT	CONNECTED			DEMAND			ESTIMATED					PAN	EL TOTAL	<u>-</u> S		
HVAC	58529 VA			100.00%			58529 VA									
											CC	DNNECT	ED LOAD	58529 VA		
												EST	IMATED	DEMAND	58529 VA	
												CONNI	ECTED (CURRENT	70.4 A	
											E	ST. DE	MAND (CURRENT	70.4 A	

LOCATION MOUNTING MAIN DEVICE	3: SURF ≣: 60.0 A	MLO	MA 1			C. RA SPE	CIAL:	22,00	OO AMI		¥ vv. MMETF	RICAL				
BUS AMPS	3 : 100 A	MPS				FED F	ROM:	HME								
LOAD NAME	NOTE	BKR	Р	СКТ		4	E	3	(;	СКТ	Р	BKR	NOTE	LOAD NAME	
OHP-19		20 A	3	1 3	1.3	1.3	1.3	1.3			2 4	3	20 A		OHP-2	
				5 7	4.0	0.0			1.3	1.3	6 8		45.			
CU-DOAS-2		25 A	3	9			4.0	0.0	4.0	0.0	10 12	3	15 A		SPAR	
SPARE		15 A	3	13 15 17	0.0	0.0	0.0	0.0	0.0	0.0	14 16 18	3	15 A		SPAR	
SPARE		15 A	3	19 21	0.0	0.0	0.0	0.0			20 22	3	15 A		SPAF	
				23 LOAD: AMPS:		VA I A	7 k		0.0 7 k		24					
LOAD CLASSIFICATION CONNECT					EMAN		4.0 A 24 A ESTIMATED			PANEL TOTALS						
HVAC			19953 VA			100.00%		19953 VA		CONNECTED LOAD: 19953 VA						
													DEMAND:			
														CURRENT:		
												EST. DE	MAND (CURRENT:	24.0 A	
NOTES:																

LOCATION: MOUNTING: SUF MAIN DEVICE: 60.0 BUS AMPS: 60 A LOAD NAME OHP-15 OHP-17	A MLO MPS E BKR 20 A	P 3	CKT 1		SPE FED F	TING: CIAL:	22,00	O AMI		I W. MMETR	RICAL				
MAIN DEVICE: 60.0 BUS AMPS: 60 A LOAD NAME NOT	A MLO MPS E BKR 20 A	P	СКТ		SPE FED F	CIAL:			25 SY	MIMEIR	RICAL				
BUS AMPS: 60 A LOAD NAME NOT OHP-15	BKR 20 A	-			FED F										
LOAD NAME NOT	E BKR 20 A	-				ROM:	MDP								
OHP-15	20 A	-			_										
OHP-15	20 A	-			Δ		3	(`	СКТ	Р	BKB	NOTE	LOAD NAME	
		3		2.0	1.3		,	,	,	2	•	DIXIX	NOIL	LOAD NAME	
			3	2.0	1.0	2.0	1.3			4	3	20 A		OHP-	
OHP-17	00.4		5					2.0	1.3	6					
OHP-17	00.4	3	7	1.8	4.0					8					
	20 A		9			1.8	4.0			10	3	20 A		CU-DOAS	
			11	0.0	0.0			1.8	4.0	12					
SPARE	15 A	3	13 15	0.0	0.0	0.0	0.0			14 16	3 15 A		SPAF		
SPARE	15 A		17			0.0	0.0	0.0	0.0	18		15 A		SPAI	
			19	0.0	0.0			0.0	0.0	20					
SPARE	15 A	3	21	0.0	0.0	0.0	0.0			22	3	15 A		SPAF	
			23					0.0	0.0	24					
	Т	OTAL	LOAD:	9 k	VΑ	9 k	VA	9 k	VA						
	OTAL	AMPS:	33 A		32.8 A 33 A										
LOAD CLASSIFICATION	CO	CONNECTED			DEMAND		ESTIMATED			PANEL TOTALS					
HVAC	2	27269 VA			100.00%			27269 VA							
											CC	NNECT	ED LOAD:	27269 VA	
											ESTI	MATED	DEMAND:	27269 VA	
											CONNE	ECTED (CURRENT:	32.8 A	
													CURRENT:		
										_					
NOTES:														<u> </u>	





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JUD C
HICKEY
CENTER

| REVISIONS | REVISIONS | REVISION | APRVD | | REVISION | | 4/16/21 | MAP | 35% SET | | 11/17/21 | MAP | 65% SET | | 2/16/22 | MAP | ISSUE FOR PERMIT |



DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

PANELBOARD SCHEDULES

DRAWING NO:

ELECTRICAL DESIGN ELECTRICAL ENGINEERS
1201 BROAD ST., SUITE 1-A
AUGUSTA, GA 30901
PH: (706) 724-3551
FAX: (706) 724-8507
EDC PROJECT #: 21047

PANELBOARD: LK1 LOCATION: ELECTRICAL ROOM 130 VOLTAGE: 208Y/120 V. 3 ø 4 W. MOUNTING: SURFACE NEMA1 A.I.C. RATING: 10,000 AMPS SYMMETRICAL SPECIAL: MAIN DEVICE: 150.0 A MLO BUS AMPS: 150 AMPS FED FROM: TK LOAD NAME NOTE BKR P CKT A B C CKT P BKR NOTE LOAD NAME RECEPTACLES RECEPTACLES HOLDING CABINET RECEPTACLES CONVECTION OVEN RECEPTACLES PREP FRIDGE RECEPTACLES PASS THRU FRIDGE RECEPTACLES ICE MACHINE
SODA DISPENSER
TEA BREWER RECEPTACLES COFFEE MAKER TEA DISPSENSER
HOT TABLE
DISHWASHER FREEZER FREEZER RANGEHOOD. RANGEHOOD... SPARE SPARE **TOTAL AMPS:** 73 A 64.5 A 49 A PANEL TOTALS LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED 4138 VA 107.10% 4432 VA CONNECTED LOAD: 21891 VA

KTCH

6360 VA

600 VA

70.00%

100.00%

4452 VA

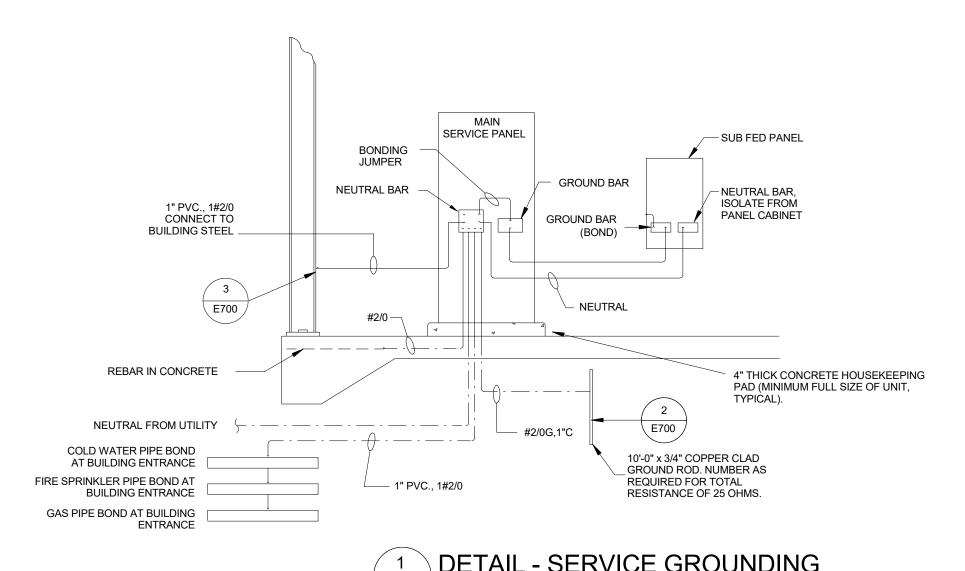
600 VA

ESTIMATED DEMAND: 19702 VA

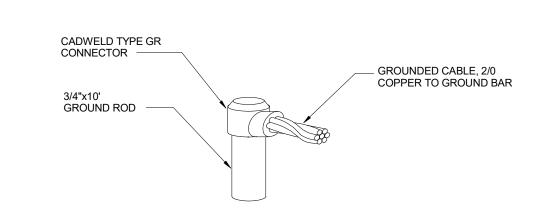
CONNECTED CURRENT: 60.8 A
EST. DEMAND CURRENT: 54.7 A

2

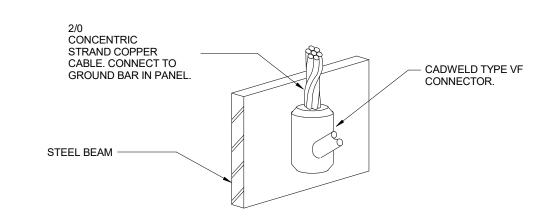
6



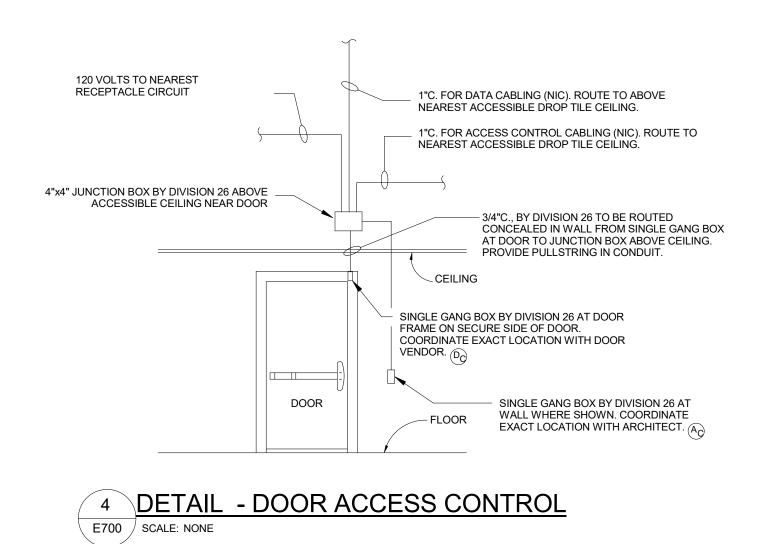


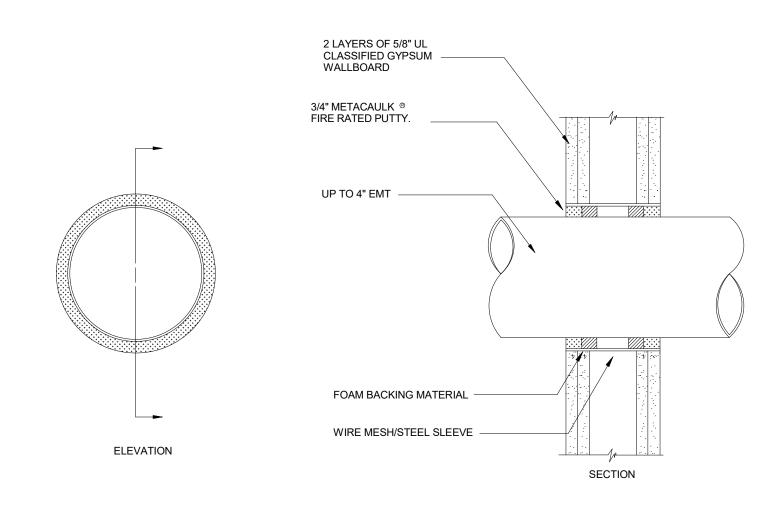


2 DETAIL - CABLE CONNECTION TO GROUND ROD E700 SCALE: NONE



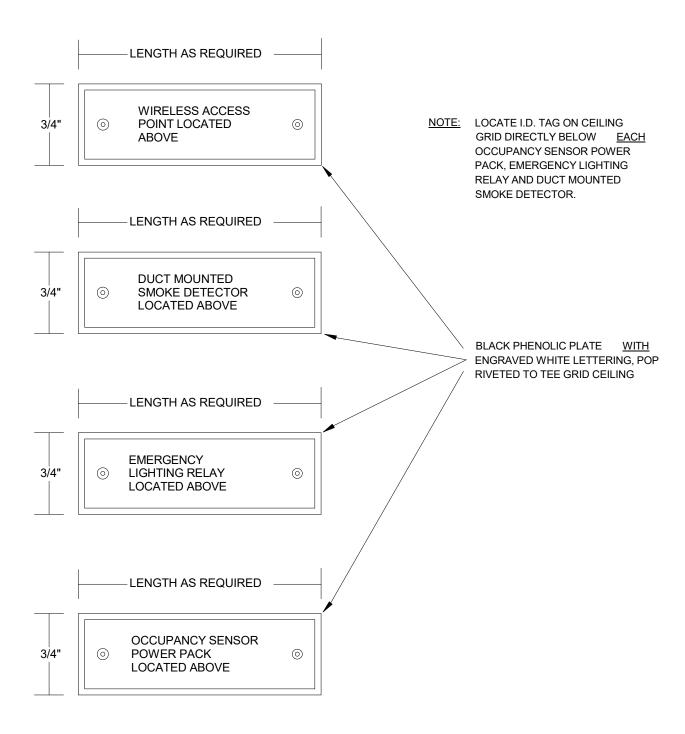
3 DETAIL - CABLE CONNECTION TO STEEL BEAM
E700 SCALE: NONE



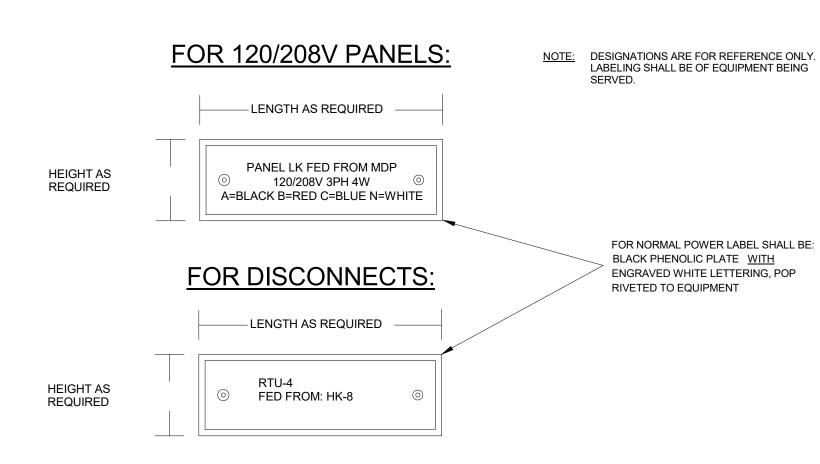


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

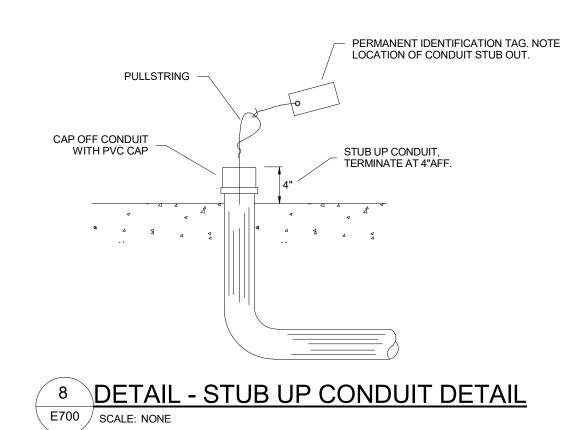
5 DETAIL - GYPSUM WALLBOARD PENETRATION E700 SCALE: NONE

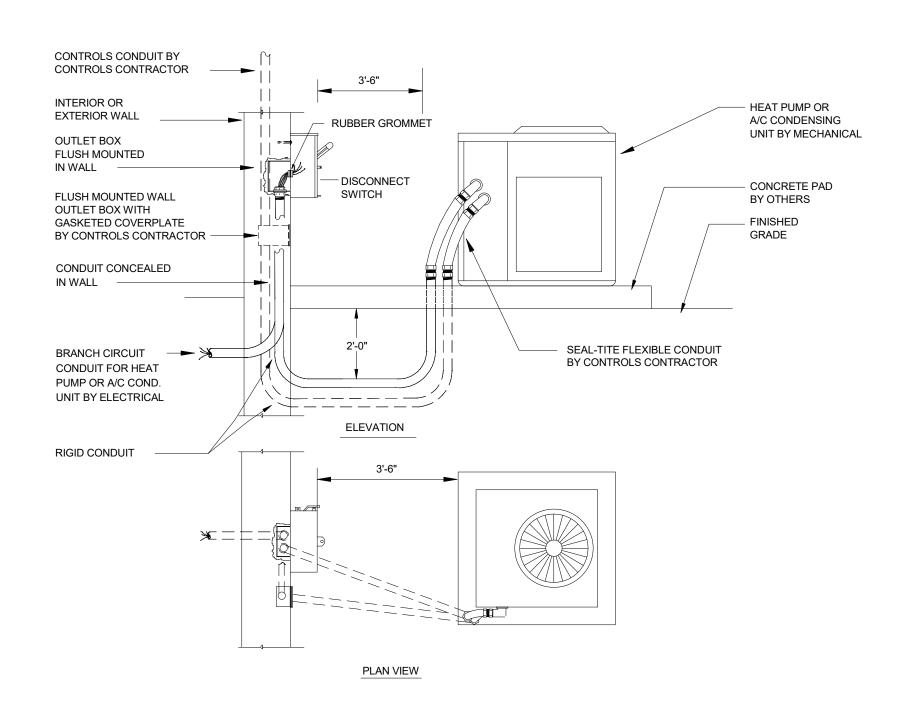


6 IDENTIFICATION TAG DETAIL
E700 SCALE: NOT TO SCALE



7 EQUIPMENT IDENTIFICATION TAG DETAIL
E700 SCALE: NOT TO SCALE

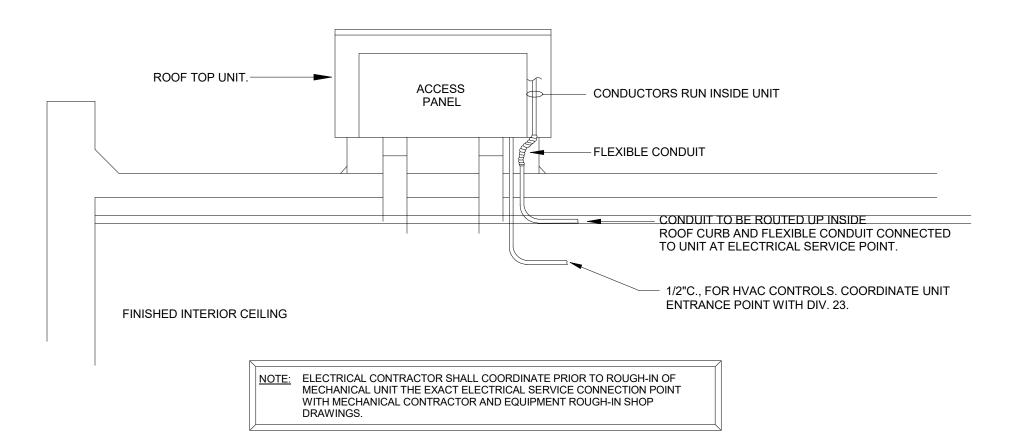




DETAIL - DISCONNECT SWITCH

9 MOUNTING AT EXTERIOR H.V.A.C. UNIT

E700 SCALE: NONE



10 DETAIL - ROOF TOP UNIT WITH FACTORY SUPPLIED DISCONNECT
E700 SCALE: NONE







PROJECT TITLE:

JUD C

HICKEY

CENTER



DA PROJECT NUMBER & NAME: 1893

DRAWING TITLE:

DETAILS

DRAWING NO:

ELECTRICAL DESIGN ELECTRICAL ENGINEERS
1201 BROAD ST., SUITE 1-A
AUGUSTA, GA 30901
PH: (706) 724-3551
FAX: (706) 724-8507
EDC PROJECT #: 21047

2 3