





Global ASNT Storage Facility

117th Air Refueling Wing

BRKR 042033

Birmingham IAP (ANG), AL

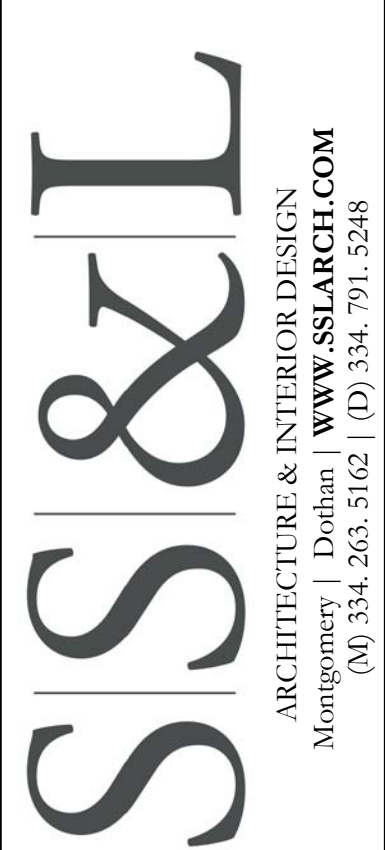
Design Team:	Consulting Engineers:			
Architect:	Mechanical:	Electrical:	Civil:	Structural:
<div><div><div>www.sslarch.com / Seay Seay & Litchfield, P.C. / 334.263.5162 architecture . interiors . planning . graphics</div></div><div><div>SS&L</div></div></div>	<div><div><div>PEI PETERSON ENGINEERING INC. 75 South F Street Pensacola, FL 32502 (850) 434-0513 www.petersoneng.com</div><div>PROF. ENG. #: 3600</div></div></div>	<div><div><div>McCARTER ENGINEERING ELECTRICAL ENGINEERING CONSULTANTS</div></div></div>	<div><div>PEC Professional Engineering Consultants, LLC</div></div>	<div><div><div>BLACKBURN DANIELS O'BARR</div></div></div>

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Approvals:		
Title:	Signature:	Date:
Base Commander		
Base Civil Engineer		
Base Project Engineer		
Bio Environmental Eng.		
Safety		
Security Police		
Base Communications		
Fire Chief		
Using Agent		



Rev.	Description	Date

Job Number
21047 / BRKR 202911
Date
February 2023
Drawn By
NV, NJ
Checked By
DCD

Project Title
GLOBAL ASNT STORAGE FACILITY Birmingham, AL

Sheet Title
TITLE SHEET & DRAWING INDEX

Sheet Number
T1.0



General Project Notes:

GENERAL NOTES APPLY TO THE ENTIRE PROJECT. SPECIFIC NOTES APPLY TO ISOLATED WORK AREAS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, ALL ISOLATED WORK AREAS ARE NOT NOTED. SHOULD A CONDITION OCCUR THAT IS NOT SPECIFICALLY NOTED, THE CONTRACTOR SHALL PROCEED WITH WORK PER GENERAL DEMOLITION NOTES OR A SPECIFIC WORK NOTE(S) USED IN OTHER SIMILAR CONDITIONS, WHICHEVER IS MORE STRINGENT, PER APPROVAL OF ARCHITECT.

CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY CONDITIONS

1. CONTRACTOR TO VISIT SITE AND TO BECOME TOTALLY FAMILIAR WITH EXTENT OF WORK REQUIRED PRIOR TO BID.
2. DIMENSIONS OF EXISTING STRUCTURES ARE ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, VERIFY ALL EXISTING CONDITIONS. LOCATION OF WALLS SHALL BE AS SHOWN ON PLAN RELATIVE TO EXISTING CONDITIONS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND FIELD CONDITIONS WITH THE DRAWINGS, IN PARTICULAR: WALL DIMENSIONS, INCOMING UTILITIES, ETC. REPORT IMMEDIATELY TO THE GOVERNMENT ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.

CONTRACTOR'S REPONSIBILITY TO COORDINATE THE WORK

1. CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING. FURNISH INFORMATION NECESSARY TO ADJUST, MOVE OR RELOCATE EXISTING STRUCTURES, UTILITY POLES, LINES, SERVICES OF OTHER SYSTEMS LOCATED IN, OR AFFECTED BY CONSTRUCTION. COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION WITH CONSTRUCTION.
2. CONTRACTOR TO VERIFY APPLICABLE OPENINGS, DOOR SIZES, AND DIMENSIONS OF MECHANICAL ROOMS WITH EQUIPMENT. IF DISCREPANCY OCCURS, NOTIFY THE GOVERNMENT PRIOR TO FRAMING.
3. CONTRACTOR TO COORDINATE PLUMBING AND MECHANICAL LINES WITH CEILING HEIGHTS, ABOVE CEILING AREAS AND STRUCTURAL ELEMENTS.
4. CONTRACTOR TO VERIFY WITH STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL THE QUANTITY AND SIZES OF ALL SLEEVES REQUIRED. ALL SLEEVES TO BE ONE HOUR RATED, PROVIDE GREATER RATING IF PENETRATING INTO HIGHER RATED SPACE.
5. COORDINATE CONDUIT, PIPING, AND DUCTWORK SO THAT THE HEAD HEIGHT IS NOT ENCUMBERED AND SERVICES ARE AS TIGHT UP TO STRUCTURE AS POSSIBLE.
6. CONTRACTOR TO COORDINATE PLUMBING, MECHANICAL, FIRE SPRINKLER, ELECTRICAL, AND LIGHTING WITH STRUCTURAL ELEMENTS WHERE THERE IS EXPOSED STRUCTURE. CONDUIT LINES, ECT. SHALL RUN AT RIGHT ANGLES OR SEGMENTED BETWEEN COLUMN LINES AND BE CLEAN AND NEAT IN APPEARANCE.
7. COORDINATE CONDUIT, PIPING, AND DUCTWORK SO THAT HEAD HEIGHT IS NOT ENCUMBERED AND SERVICES ARE AS TIGHT UP TO STRUCTURE AS POSSIBLE, THIS WILL INCLUDE JOGGING DUCTS, SPRINKLER LINES, PLUMBING LINES, CONDUIT, ECT. UP AND DOWN OR AROUND AS REQUIRED TO ACHIEVE CEILING HEIGHTS AS INDICATED. COORDINATE INSTALLATION AND SEQUENCING OF DISCIPLINES TO ACHIEVE.
8. THE GENERAL CONTRACTOR SHALL STAKE OUT ALL MAJOR FEATURES SHOWN ON THE SITE PLAN TO VERIFY THE SITE LAYOUT RELATIVE TO THE PROPERTY LINES AND SITE CONDITIONS PRIOR TO ANY UTILITIES OR FOOTINGS BEING INSTALLED.
9. PLUMBING, FIRE-PROTECTION, MECHANICAL, AND ELECTRICAL WORK REQUIRED BY THIS CONTRACT IS NOTED ON CONTRACT DOCUMENTS. THE TRADE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH ALL TRADES. CHANGE ORDERS SHALL NOT BE APPROVED FOR EXTRA WORK ARISING FROM TRADE CONTRACTORS NOT COORDINATING WORK.
10. CONTRACTOR WILL BE RESPONSIBLE FOR ALL LAYOUT FOR INTERIOR/EXTERIOR WALLS AND FOUNDATION AND WILL BE RESPONSIBLE FOR MAINTAINING A BENCHMARK AND CONTROL LINES AT EACH FLOOR LEVEL. CONTRACTOR IS ALSO RESPONSIBLE FOR VERIFYING ACTUAL FLOOR HEIGHTS AND COORDINATING NEW AND EXISTING FLOORS TO ALIGN.
11. CONTRACTOR SHALL COORDINATE TO ASSURE ALL EQUIPMENT CAN BE BROUGHT INTO THE BUILDING. THIS INCLUDES MANUFACTURE COMPONENT SIZE/ASSEMBLY, CRITICAL PATH SCHEDULING, AND COORDINATION OF OTHER TRADES.

General Project Notes (Continued):

CONTRACTOR'S RESPONSILTY TO COMPLY WITH APPLICABLE GOVERNING CODES/AUTHORITIES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES. EACH TRADE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INSPECTIONS, AND CERTIFICATES REQUIRED BY GOVERNING ENTITIES.
2. CONTRACTOR TO CONFIRM ALL OSHA AND APPLICABLE STANDARDS TO ASSURE SAFETY OF ALL PERSONS ON SITE DURING ENTIRE COURSE OF CONSTRUCTION.
3. NEITHER THE ARCHITECT, NOR THE GOVERNMENT SHALL BE RESPONSIBLE FOR JOB SAFETY. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY AND SAFETY OF THE PUBLIC DURING CONSTRUCTION AND SHALL PROVIDE APPROPRIATE WARNINGS, BARRICADES, ETC. AS REQUIRED PER CODES.
4. PROMPTLY NOTIFY THE GOVERNMENT IN WRITING IF ANY CONTRACT DOCUMENTS ARE FOUND TO BE IN VARIANCE WITH THE APPLICABLE LAWS AND ORDINANCES. NECESSARY CHANGES WILL BE MADE BY APPROPRIATE MODIFICATIONS.
5. IF ANY WORK IS PERFORMED KNOWING IT TO BE CONTRARY TO SUCH CODES, LAWS, ORDINANCES, RULES AND REGULATIONS, AND WITHOUT NOTICE TO THE GOVERNMENT, THAT TRADE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND BEARS COSTS ATTRIBUTED TO BRING WORK TO COMPLIANCE OF SUCH CODES, LAWS, ORDINANCES, AND RULES AND REGULATIONS.

GENERAL PROVISIONS FOR FIRE RATED CONSTRUCTION

1. ALL RECESSED ACCESSORIES LOCATED IN FIRE RATED WALLS SHALL BE EITHER OF FIRE RATED CONSTRUCTION OR COORDINATED WITH THE ADJACENT TRADES TO ALLOW THE GYPSUM BOARD TO BE CONTINUOUS BEHIND THE ACCESSORIES.
2. EACH RESPONSIBLE CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE AS PART OF THEIR WORK IN FIRE-RATED CONSTRUCTION AS REQUIRED BY ALL APPLICABLE CODES. EACH CONTRACTOR TO VERIFY WITH LOCAL FIRE MARSHAL OR BUILDING OFFICIAL HAVING JURISDICTION. EACH RESPONSIBLE CONTRACTOR WILL SEAL ALL PENETRATIONS MADE AS PART OF THEIR WORK THROUGH NON-RATED PARTITIONS. ALL FIRE CAULK TO BE THE SAME BRAND AS DETERMINED BY CONTRACTOR.
3. ALL NEW AND EXISTING FIRE WALLS IN WORK AREAS ARE TO BE CARRIED TO THE UNDERSIDE OF THE ROOF DECK AND SEALED AS REQUIRED FOR NECESSARY FIRE RATINGS, AND LABELED PER THE AUTHORITY HAVING JURISDICTION.
4. MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY THE 2009 INTERNATIONAL MECHANICAL CODE SECTION 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

MISCELLANEOUS GENERAL PROVISIONS:

1. CONTRACTOR TO NOTIFY THE GOVERNMENT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES WITH TAGGED DETAILS, ENLARGED PLANS, ELEVATIONS, ETC.
2. IN ROOMS WITH FLOOR DRAINS, SLOPE TO DRAIN AT 1 PERCENT SLOPE UNLESS SPECIFICALLY NOTED OTHERWISE.

Typical Abbreviation Legend:

ACT	Acoustical Ceiling Tile	JT	Joint
A/C	Air Conditioning	LAM	Laminate
AB	Anchor Bolt	LAV	Lavatory
ADA	American Disabilities Act	LVR	Louver
AFF	Above Finish Floor	MIN	Minimum
BM	Beam	MAX	Maximum
BRG	Bearing	MECH	Mechanical
BRK	Brck	MET	Metal
CFCI	Contractor Furnished	MFR	Manufacturer
	Contractor Installed	MH	Man Hole
CIP	Cast In Place	MIN	Minimum
CJ	Control Joint	MISC	Miscellaneous
CL	Column Line	MLDG	Moulding
CLG	Ceiling	MO	Masonry Opening
CLR	Clear	MTD	Mounted
CMU	Concrete Masonry Unit	MW	Microwave
COL	Column	NIC	Not In Contract
CONC	Concrete	NO	Number
CONT	Continuous	NOM	Nominal
CONTR	Contractor	NTS	Not to Scale
COORDF	Coordination	OC	On Center
CORR	Corridor	OFCI	Owner Furnished
CT	Ceramic Tile		Contractor Installed
CTR	Center	OFOI	Owner Furnished
DBL	Double		Owner Installed
DET	Detail	OPP	Opposite
DIA	Diameter	P	Paint
DR	Drain	PL	Plate / Property Line
DN	Down	PL LAM	Plastic Laminate
DS	Downspout	PLYWD	Flywood
DW	Dishwasher	PNL	Panel
DWG	Drawing	PT	Pressure Treated
DWR	Drawer	R	Radius / Riser
EA	Each	RB	Rubber Base
EF	Exhaust Fan	REFR	Refrigerator
EJ	Expansion Joint	REINF	Reinforce (D)
EL	Elevation	REV	Revised
ELEC	Electrical	RM	Room
EQ	Equal	SCHED	Schedule
EX	Existing	SECT	Section
EXT	Exterior	SHT	Sheet
FF	Finish Floor	SHW	Single Hung Window
FIN	Finish	SIM	Similar
FL	Floor Line	SPECS	Specifications
FISNG	Flashing	SQ	Square
FTG	Footing	SS	Sanitary Sewer
GA	Gauge	STD	Standard
GFR	Glass Fiber Reinforced Concrete	SVT	Solid Vinyl Tile
		STL	Steel
GWB	GWB	T	Tile
HT	Height	T#G	Tongue & Groove
HM	Hollow Metal	TYP	Typical
HOR	Horizontal	UNO	Unless Noted Otherwise
HR	Handrail		
HTR	Heater	VERT	Vertical
HVAC	Heating, Ventilation & Air Conditioning	VTR	Vent Thru Roof
		VWC	Vinyl Wall Covering
HxWxL	Height, width, length	WD	Wood
IN	Inches	WWM	Welded Wire Mesh
INSUL	Insulation	WWF	Welded Wire Fabric
INT	Interior	YP	Yellow Pine
JST	Joist		

General Symbol Legend

	BUILDING ELEVATION TAG
	INTERIOR ELEVATION TAG
	BUILDING SECTION TAG
	WALL SECTION TAG
	DETAIL TAG
	ROOM TAG
	ADA APPROVED TURNING SPACE
	SPOT ELEVATION
	DOOR TAG (SEE DOOR SCHEDULE)
	WINDOW TAG (SEE WINDOW SCHEDULE)
	WALL/STOREFRONT TAG (SEE WALL/STOREFRONT SCHEDULE)
	REVISION TAG (SEE REVISION SCHEDULE)
	SPECIFIC NOTE TAG
	ELECTRIC WATER COOLER (SEE PLUMBING)
	FIRE EXTINGUISHER CABINET

SS&L

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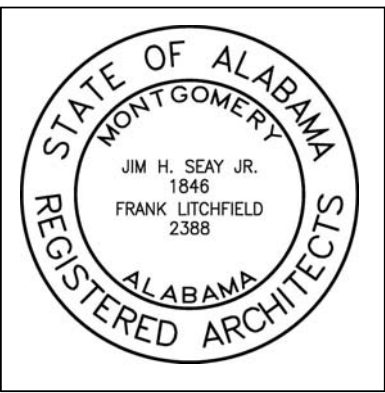
Job Number
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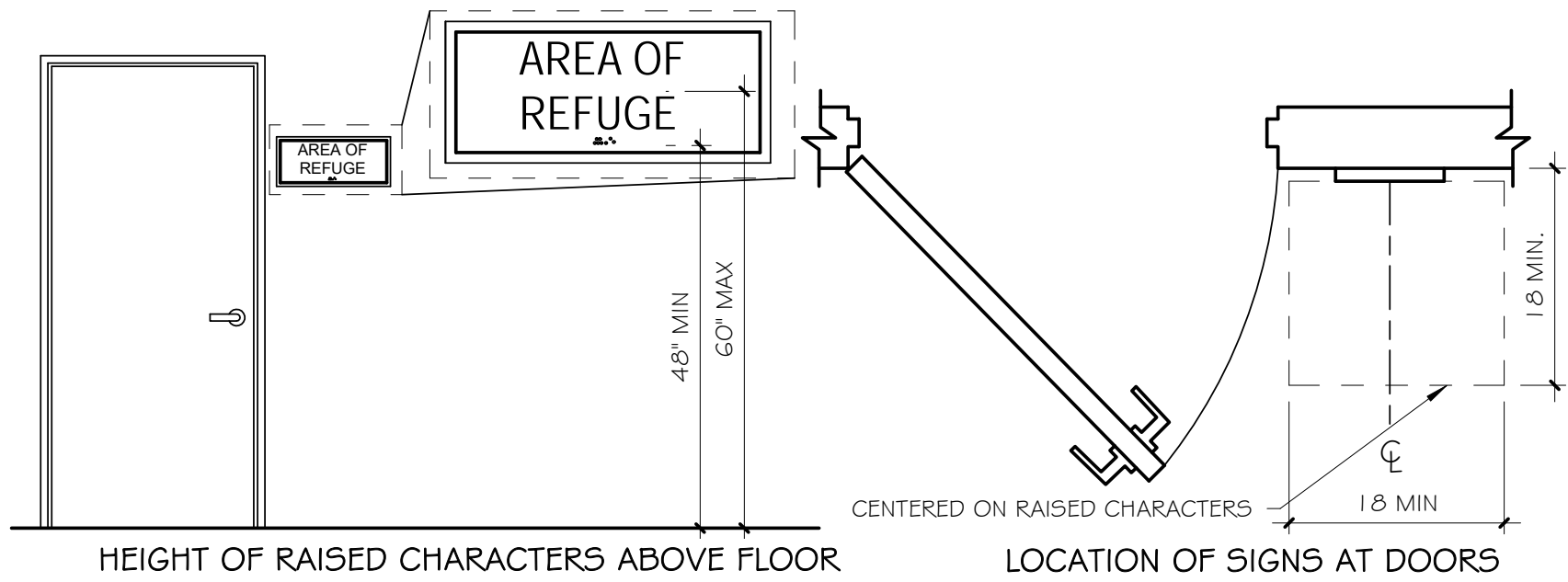
Birmingham, AL

Sheet Title
GENERAL WORK NOTES, ABBREVIATIONS & SYMBOLS

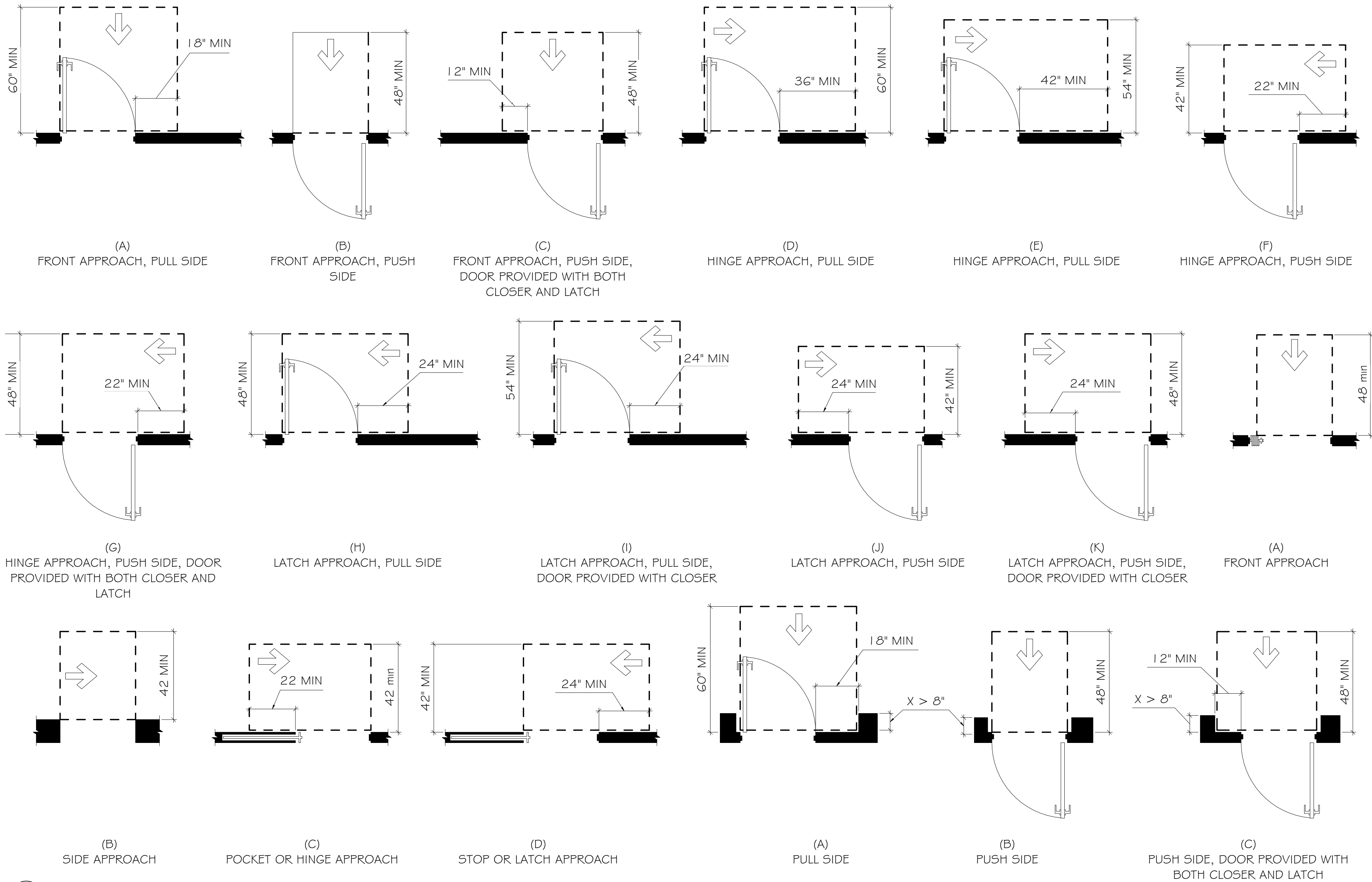
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- GENERAL NOTES:
- ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC/ANSI A117.1 ARE THE REFERENCE STANDARDS USED FOR SCOOPING PROVISIONS FOR ACCESSIBILITY. THE MORE STRINGENT PROVISIONS OF THE TWO STANDARDS ARE INDICATED.
 - DIAGRAMS SHOWN ARE FOR MOUNTING HEIGHT INFORMATION ONLY. FIXTURES SHOWN ARE NOT NECESSARILY INCLUDED IN THE PROJECT.
 - COORDINATE ADA REQUIREMENTS WITH ALL REQUIRED CONCEALED WOOD BLOCKING.
 - REFER TO MANUFACTURER'S LITERATURE REGARDING RECOMMENDATIONS FOR MOUNTING PRODUCTS AND MATERIALS IN COMPLIANCE WITH ADA STANDARDS.



1
T3.0
TYPICAL SIGNAGE MOUNTING DIAGRAMS
1/8" = 1'-0"



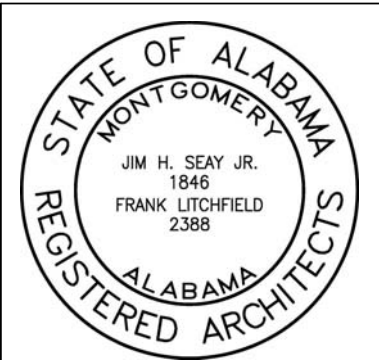
Rev.	Description	Date

Job Number	21047 / BRKR 202011
Date	February 2023
Drawn By	NV, NJ
Checked By	DCD

Project Title	GLOBAL ASNT STORAGE FACILITY Birmingham, AL
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Sheet Title	TYPICAL MOUNTING HEIGHTS & CLEARANCES
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Sheet Number	T3.0
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CODE SUMMARY

APPLICABLE CODES:
BUILDING CODE.....*UFC 1-200-01 / 2018 INTERNATIONAL BUILDING CODE*
STRUCTURAL CODE.....*UFC 3-301-01*
PLUMBING CODE.....*UFC 3-420-01*
MECHANICAL CODE.....*UFC 3-401-01*
FIRE CODE.....*UFC 3-600-01 / NFPA 101*
ELECTRICAL CODE.....*UFC 3-501-01*
ENERGY CODE.....*UFC 1-200-02*
ACCESSIBILITY CODE.....*2010 ADA STANDARDS*
LIFE SAFETY CODE.....*UFC 3-600-01*

IBC CHAPTER 3 AND UFC 3-600-01 OCCUPANCY & USE:
NFPA 101 CHAPTER 6:
• SEE LEGEND ON LIFE SAFETY PLAN

IBC CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS:
• *NOT APPLICABLE*

IBC CHAPTER 5 - GENERAL BUILDING HEIGHTS & AREAS:
• CONSTRUCTION TYPE = *II-B, SPRINKLED, GROUP S-1*
• ALLOWABLE BUILDING HEIGHT (*PER TABLE 504.3*)
75 FEET ABOVE GRADE PLANE
• ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE (*PER TABLE 504.4*)
3 STORIES ABOVE GRADE PLANE
• TABULAR BUILDING AREA (*PER TABLE 506.2*)
70,000 SQUARE FEET
• FIRE SEPARATION REQUIREMENTS *NONSEPARATED OCCUPANCIES*
• INCIDENTAL USE AREAS (*PER TABLE 509*)
SEE OCCUPANCY TABLE.

IBC CHAPTER 6 TYPES OF CONSTRUCTION:
• CONSTRUCTION TYPE: *II-B*
• FIRE RATINGS (*PER TABLE 601*) AS FOLLOWS (EXCEPT WHERE NOTED OTHERWISE)
PRIMARY STRUCTURAL FRAME..... *0 HOUR*
BEARING WALLS (INTERIOR & EXTERIOR)..... *0 HOUR*
NON-BEARING WALLS AND PARTITIONS (INTERIOR)..... *0 HOUR*
FLOOR CONSTRUCTION AND SECONDARY MEMBERS... *0 HOUR*
ROOF CONSTRUCTION AND SECONDARY MEMBERS.... *0 HOUR*

• REQUIRED FIRE SEPERATION (<i>PER TABLE 602</i>)		
OCCUPANCY TYPE	FIRE SEPARATION	REQ. RATING
<i>B</i>	<i>>30'</i>	<i>0 HR</i>
<i>S-1</i>	<i>>30'</i>	<i>0 HR</i>

IBC CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES:
• MAXIMUM EXTERIOR WALL OPENINGS (*PER IBC SECTION 705*)
DEGREE OF OPENING PROTECTION: ALLOWABLE AREA:
UNPROTECTED, SPRINKLERED , (UP, S) NO LIMIT

- FIRE WALLS (*PER NFPA 8.3.2*)
NO FIRE WALLS ARE PRESENT WITHIN THE SCOPE OF THE PROJECT
- SHAFT ENCLOSURE (*PER NFPA 8.3.1 / 7.3.1.2*)
NOT APPLICABLE
- OPENING PROTECTIVES (*PER NFPA 8.3.4*)
TYPE OF ASSEMBLY ASSEMBLY RATING REQUIRED OPENING PROTECTION
NOT APPLICABLE
- CONCEALED SPACES (*PER SECTION 718*)
NOT APPLICABLE
- SEE LEGEND ON LIFE SAFETY PLAN FOR APPLICABLE UL ASSEMBLIES TO BE PROVIDED.

IBC CHAPTER 8, UFC 3-600-01, NFPA 101 - INTERIOR FINISHES:
• FINISH MATERIAL RATING REQUIREMENTS (*PER NFPA 101*)

BUSINESS (*CHAPTER 39*)
INTERIOR WALL AND CEILING FINISH - *CLASS A, B, OR C (42.3.3.2)*

STORAGE S-1 (*CHAPTER 42*)
INTERIOR WALL AND CEILING FINISH - *CLASS A, B, OR C (42.3.3.2.2)*

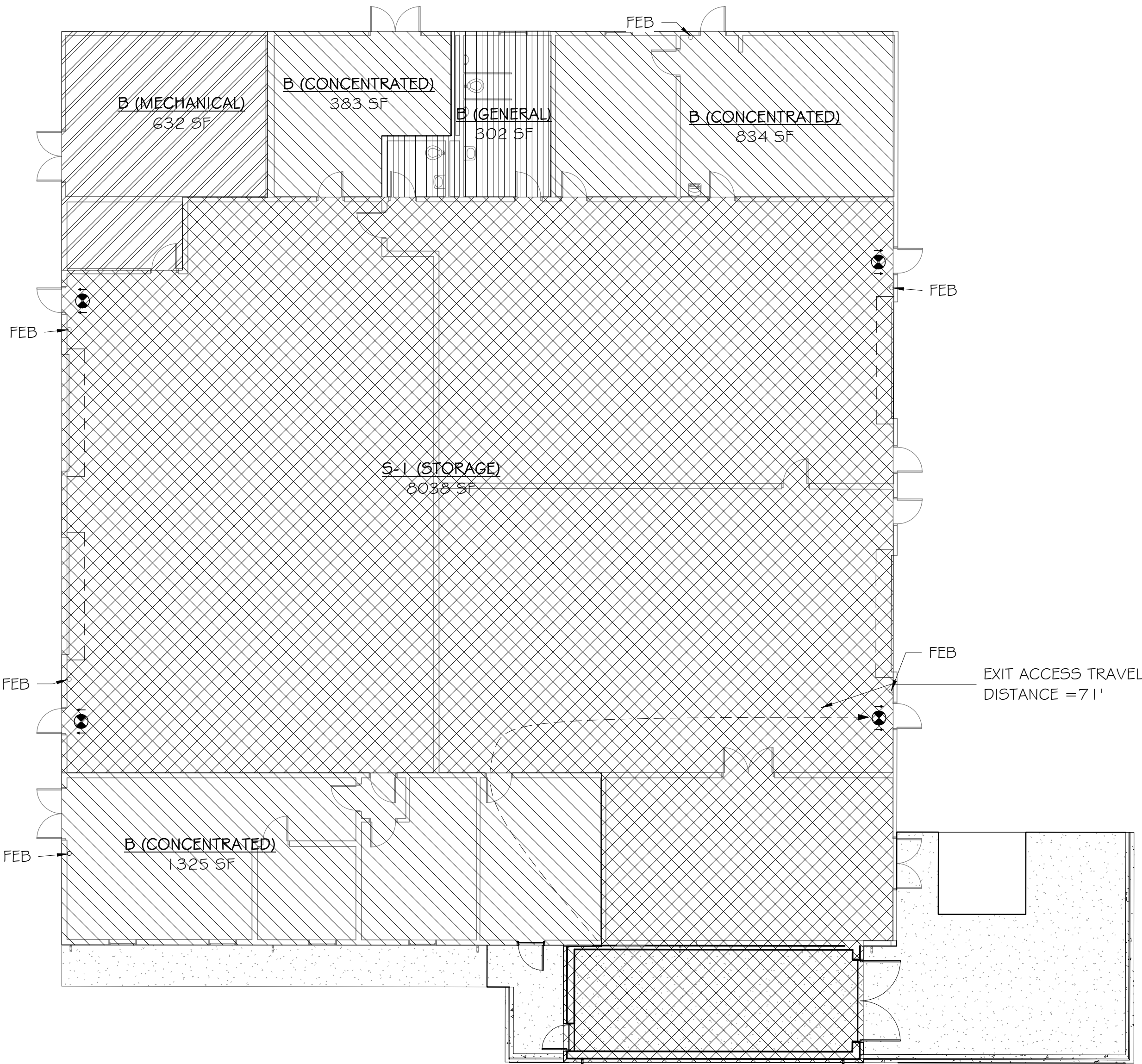
- UFC 3-600-01 (REPLACES IBC CHAPTER 9) - FIRE PROTECTION SYSTEMS:
- *SECTION 9-1 - EMERGENCY VEHICLE ACCESS*
1. FACILITY *REQUIRES* ONE MEANS OF ALL-WEATHER EMERGENCY VEHICLE GROUND ACCESS IN ACCORDANCE WITH *9-1.1*
2. FACILITY *DOES NOT REQUIRE* AERIAL APPARATUS ACCESS IN ACCORDANCE WITH *9-1.2*
 - *SECTION 9-2 - FIRE FLOW FOR FACILITIES*
1. FIRE FLOW FOR SPRINKLER SYSTEM IS PROVIDED IN ACCORDANCE WITH *9-2.1*
 - *SECTION 9-3 - SERVICE MAINS AND LATERALS*
1. FIRE HYDRANTS ARE PROVIDED IN ACCORDANCE WITH *9-3.5.8.2*
A. ALL PARTS OF THE FACILITY EXTERIOR ARE WITHINT *350 FT* OF A HYDRANT
2. FIRE HYDRANTS ARE PROVIDED IN ACCORDANCE WITH *9-3.5.8.4*
A. ONE HYDRANT IS LOCATED WITH *150FT* OF THE FIRE DEPARTMENT CONNECTION
 - *SECTION 9-5 - FIRE PUMPS*
1. A FIRE PUMP *IS NOT* REQUIRED TO MEET FIRE PROTECTION DEMAND
 - *SECTION 9-7 - AUTOMATIC SPRINKLER SYSTEMS*
1. PER *9-7.2.1*, AN AUTOMATIC SPRINKLER SYSTEM *IS* REQUIRED
 - *SECTION 9-10 - STANDPIPE SYSTEMS*
1. PER *9-10*, A STANDPIPE SYSTEM *IS NOT* REQUIRED
 - *SECTION 9-17 - PORTABLE FIRE EXTINGUISHERS*
1. FIRE EXTINGUISHERS ARE PROVIDED, SEE PLANS FOR LOCATIONS
- NFPA CHAPTER 7 (REPLACES IBC CHAPTER 10) - MEANS OF EGRESS:
- OCCUPANCY LOAD (*PER TABLE 7.3.1.2*):
SEE OCCUPANCY TABLE
 - EGRESS CAPACITY SIZING (*PER TABLE 7.3.3.1*)
SEE CODE CALCULATIONS TABLE(S)
SEE LIFE SAFETY PLAN FOR INDIVIDUAL ROOM EGRESS ANALYSIS
 - MINIMUM STAIR WIDTH (*PER SECTION 7.3.3.1*)
SEE CODE CALCULATIONS TABLE(S)
 - NUMBER OF MEANS OF EGRESS (*PER SECTION 7.4.1*)
TOTAL NUMBER OF EXITS REQUIRED
BUSINESS OCCUPANCY (*CHAPTER 39*)
2 EXITS REQUIRED
S-1 STORAGE OCCUPANCY (*CHAPTER 42*)
2 EXITS REQUIRED

- COMMON PATH OF EGRESS TRAVEL DISTANCE
BUSINESS OCCUPANCY (*CHAPTER 39*)
100 FT PER 39.2.5.2.1
S-1 STORAGE (*CHAPTER 42*)
100 FT PER 42.2.5
- EXIT ACCESS TRAVEL DISTANCE
BUSINESS OCCUPANCY (*CHAPTER 39*)
300 FEET PER 39.2.6.3
S-1 STORAGE OCCUPANCY (*CHAPTER 39*)
400 FEET PER 42.2.5

- CORRIDORS
OCCUPANCY TYPE (*B, S-1*) REQUIRES:
NO FIRE RATING REQUIRED FOR CORRIDOR WALLS

MINIMUM CORRIDOR WIDTH
BUSINESS OCCUPANCY (*CHAPTER 39*)
44 INCHES PER 39.2.3.2
S-1 STORAGE OCCUPANCY (*CHAPTER 42*)
36 INCHES PER 7.3.4.1

DEAD END CORRIDORS
BUSINESS OCCUPANCY (*CHAPTER 39*)
MAXIMUM OF *50 FEET PER 39.2.5.3*
S-1 STORAGE OCCUPANCY (*CHAPTER 42*)
MAXIMUM OF *100 FEET PER 42.2.5*



LS1.0 LIFE SAFETY PLAN
3/32" = 1'-0"

SSL_GROUND FLOOR PLAN CODE CALCULATIONS

Name	Occupancy Calculations					Egress Width Calculations
	Area	Male Occupancy	Female Occupancy	Occupancy Factor	Total Occupant Load	Req. Width Of Egress Components
B (CONCENTRATED)	834 SF	13.35	3.34	50 SF	16.68	3.34
B (CONCENTRATED)	383 SF	6.13	1.53	50 SF	7.66	1.53
B (CONCENTRATED)	1325 SF	21.20	5.30	50 SF	26.50	5.30
B (GENERAL)	302 SF	2.42	0.60	100 SF	3.02	0.60
B (MECHANICAL)	632 SF	1.01	0.25	500 SF	1.26	0.25
S-1 (STORAGE)	8038 SF	12.86	3.22	500 SF	16.08	3.22
	11515 SF	57	15		72	14.24 CALCULATED 44' MINIMUM REQUIRED PER CODE

SSL_PLUMBING FIXTURE CALCULATIONS

Name	Male Occupancy	Female Occupancy	Plumbing Fixture Calculations				
			Water Closets Required		Lavatories Required		Drinking Fountains Req.
			Men	Women	Male	Female.	
B (CONCENTRATED)							
B (GENERAL)	2.42	0.6	0.10	0.02	0.06	0.02	0.03
B (MECHANICAL)	1.01	0.25	0.04	0.01	0.03	0.01	0.01
S-1 (STORAGE)	12.79	3.2	0.51	0.13	0.32	0.08	0.16
	57	15	3	1	2	1	1

LIFE SAFETY LEGEND

- ELECTRIC WATER COOLER - SEE PLUMBING
- AUTOMATED EXTERNAL DEFIBRILLATOR
- FIRE EXTINGUISHER BRACKET

- HANDICAP ACCESSIBLE EXIT LOCATION
- EXIT TRAVEL PATH
- EMERGENCY EXIT SIGNAGE
- ROOM NAME
- ROOM TAG

- B - CONCENTRATED
- B - MECHANICAL
- B - GENERAL
- S-1: STORAGE

Rev.	Description	Date

Job Number
21047 / BRKR 2029 | 1
Date
February 2023
Drawn By
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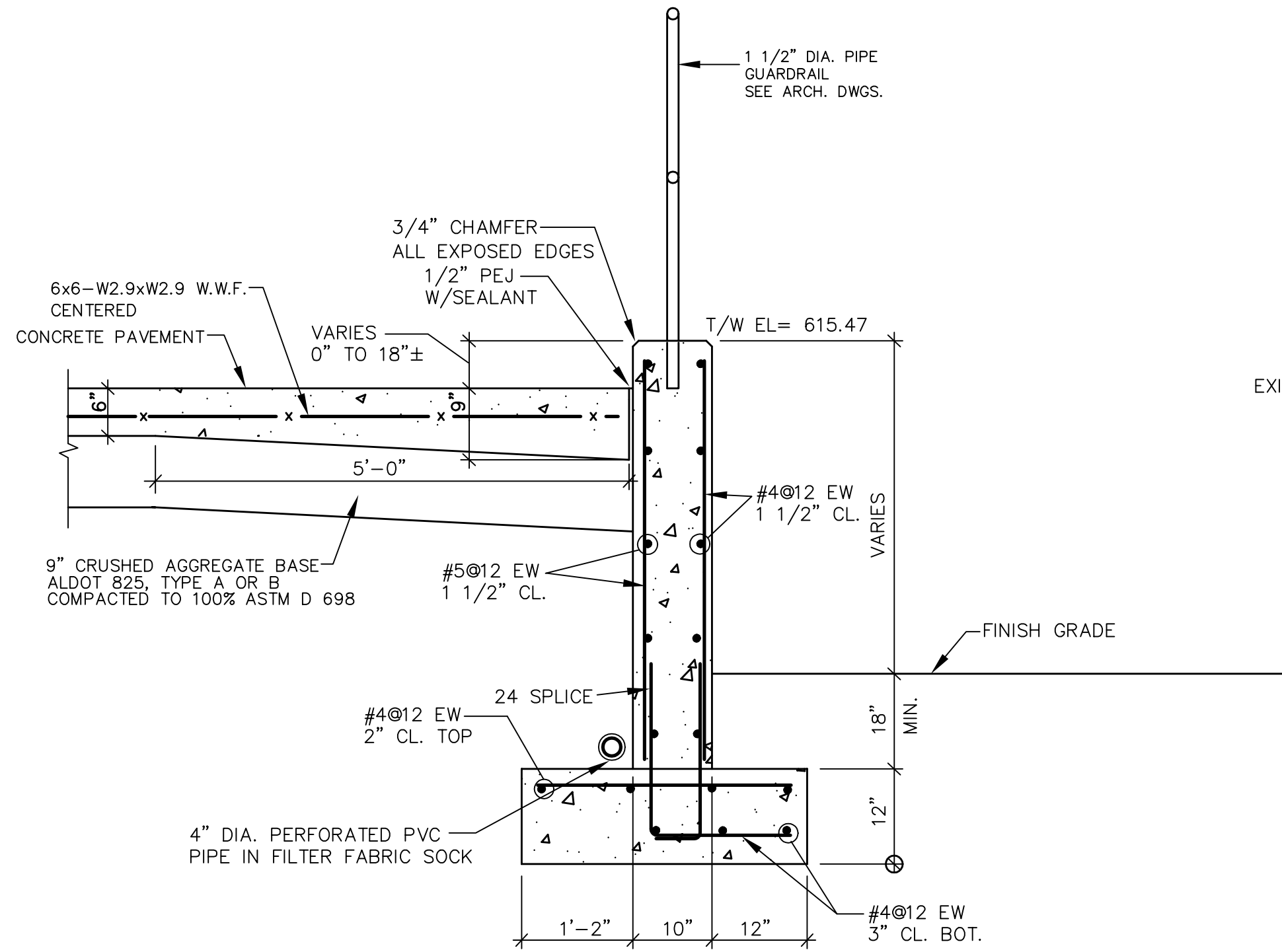
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Sheet Title
LIFE SAFETY PLAN
& CALCULATIONS

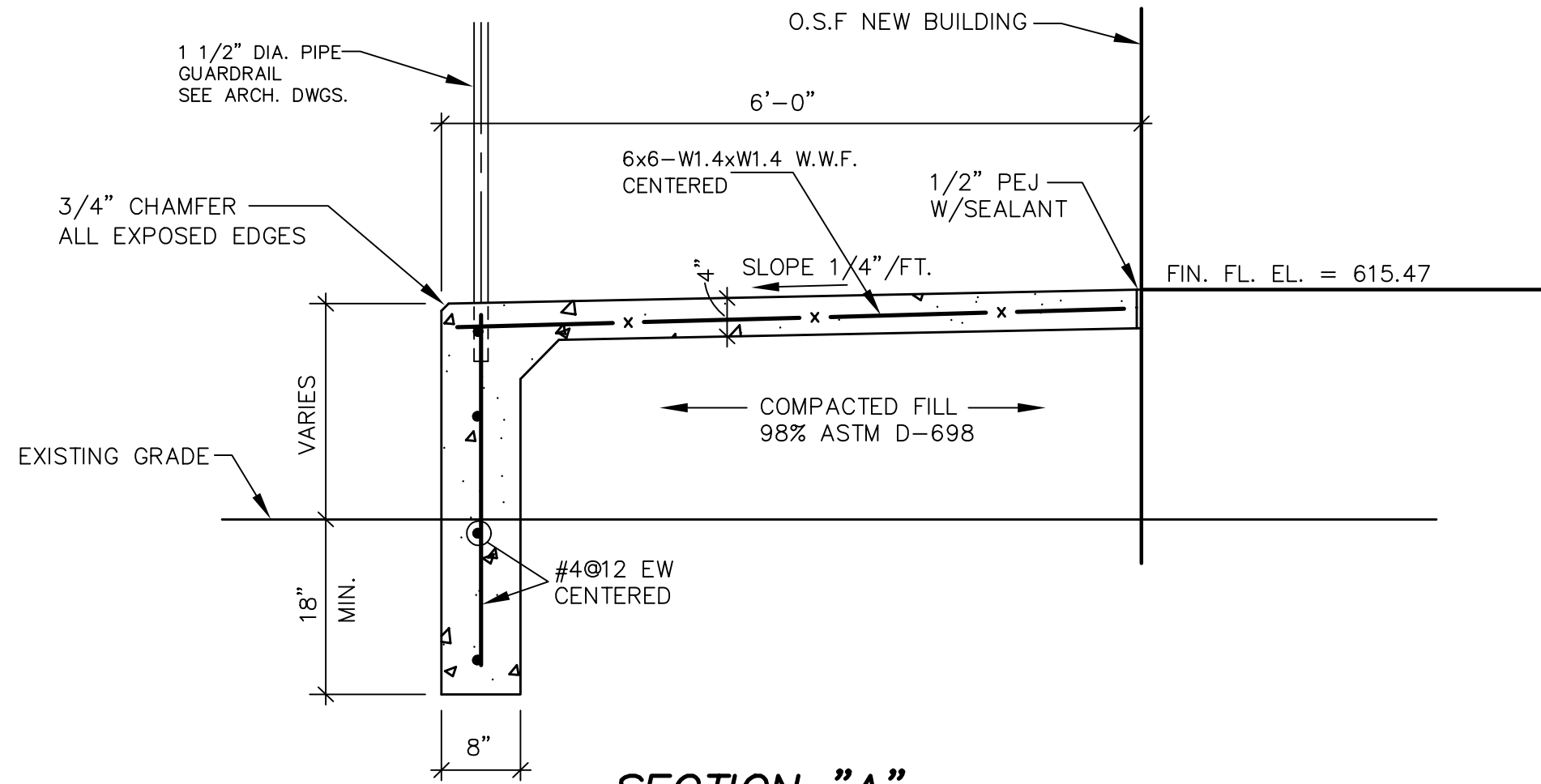
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LS1.0

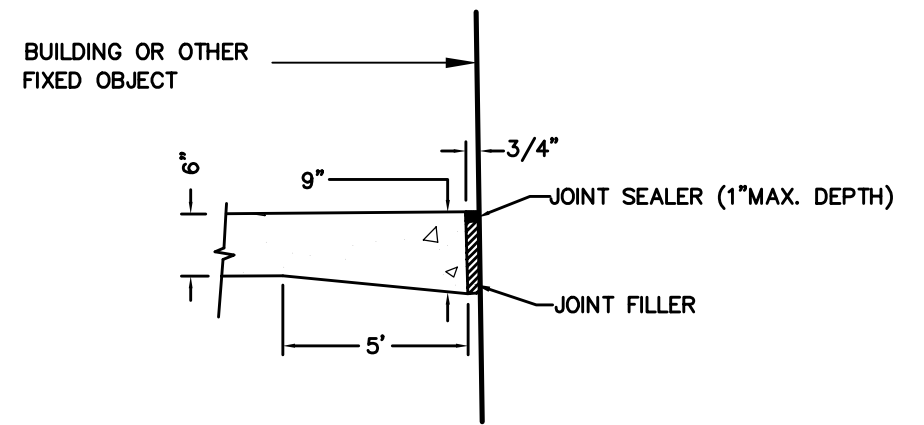




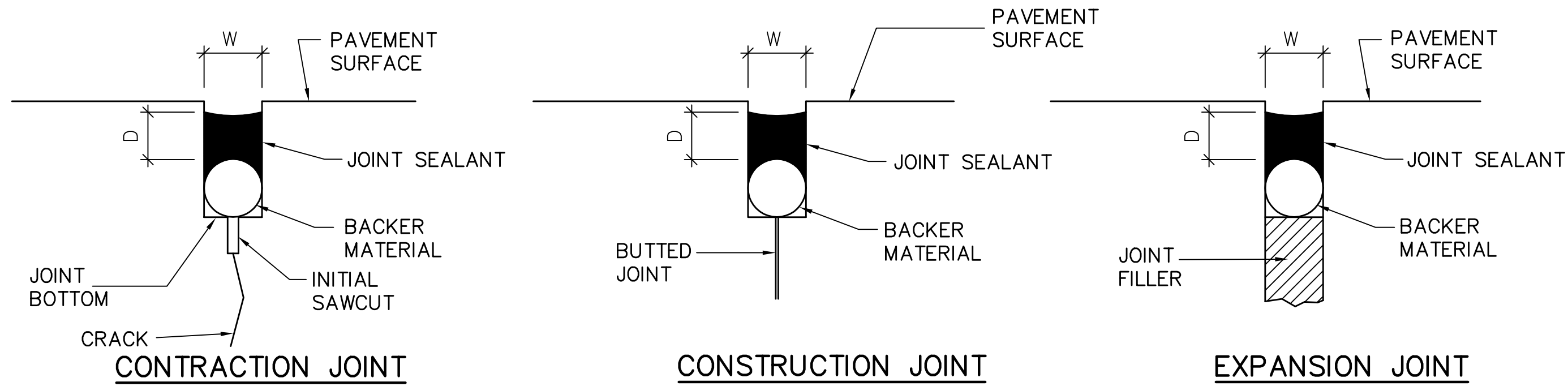
RETAINING WALL DETAIL
NTS



SECTION "A"

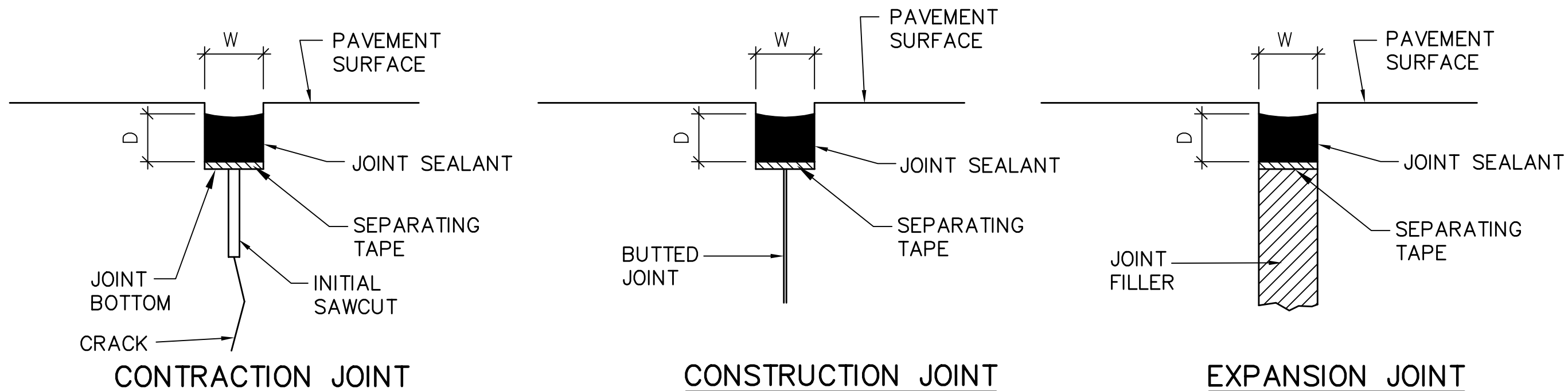


EXPANSION JOINT (EJ)



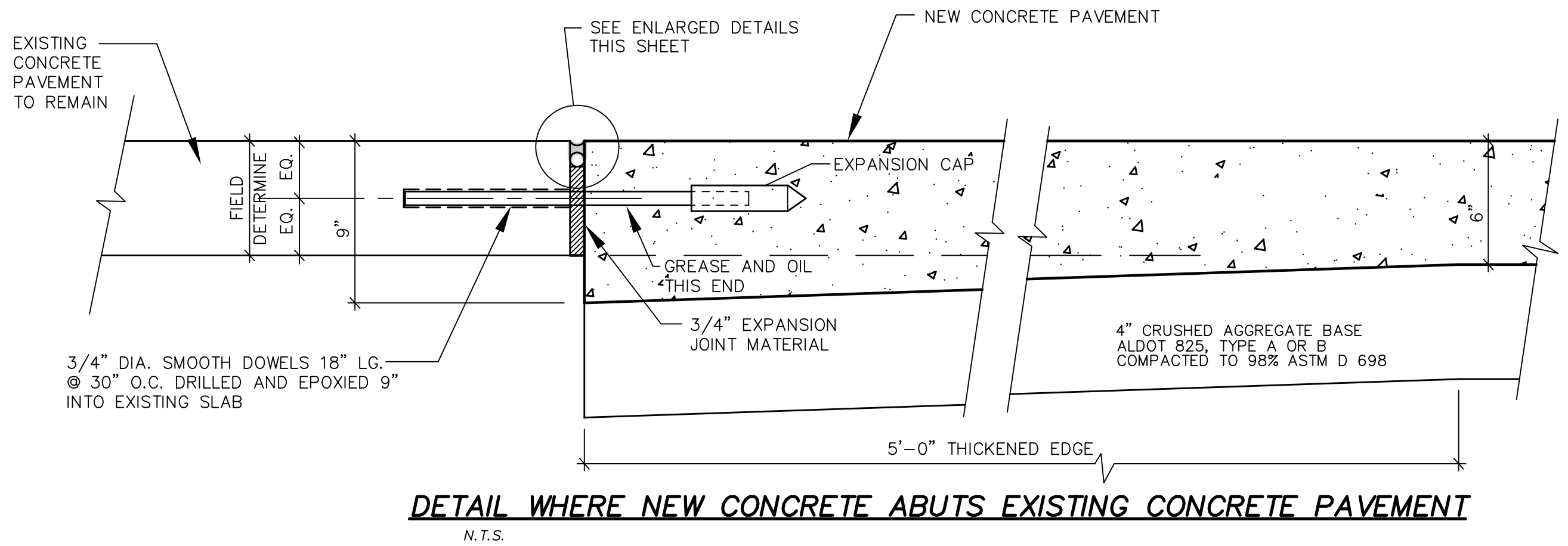
W= WIDTH OF SEALANT RESERVOIR (1/2" MIN, 5/8" MAX.)
D= DEPTH OF SEALANT; 0.5W FOR SILICONE SEALANT
DIAMETER OF BACKER MATERIAL= W + 1/8"
NOTE:
TOP OF SEALANT SHALL BE 1/4" TO 1/16" BELOW TOP OF PAVEMENT

JOINT SEALANT DETAILS (BACKER MATERIAL)
N.T.S.

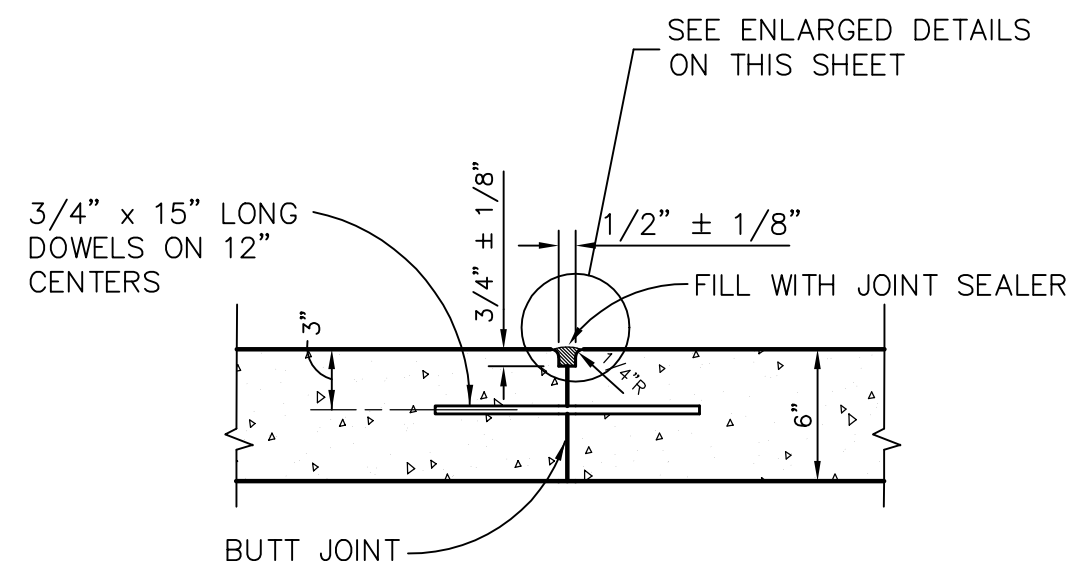


W= WIDTH OF SEALANT RESERVOIR (1/2" MIN, 5/8" MAX.)
D= DEPTH OF SEALANT; 0.5W FOR SILICONE SEALANT
DIAMETER OF BACKER MATERIAL= W + 1/8"
NOTE:
TOP OF SEALANT SHALL BE 1/4" TO 1/16" BELOW TOP OF PAVEMENT

JOINT SEALANT DETAILS (SEPARATING TAPE)
N.T.S.

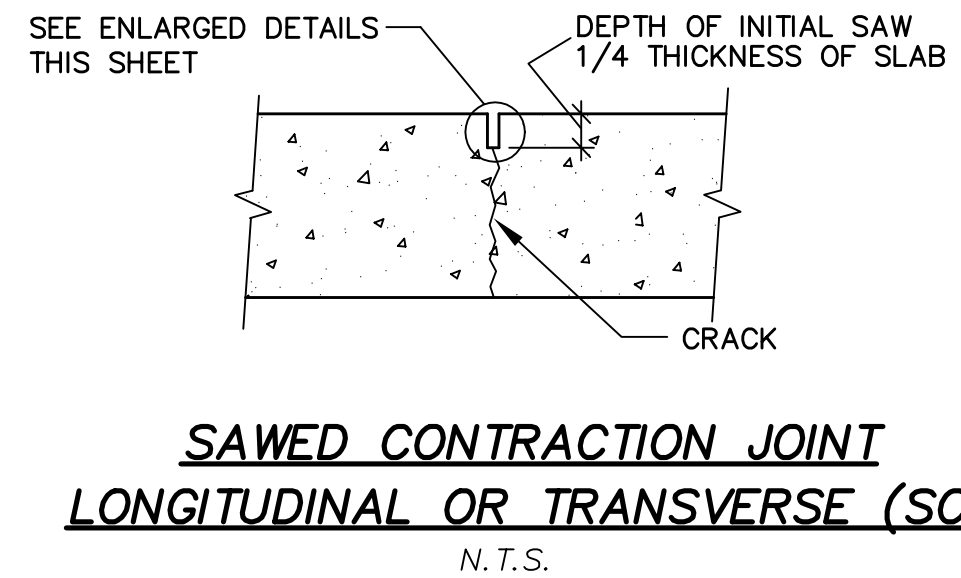


DETAIL WHERE NEW CONCRETE ABUTS EXISTING CONCRETE PAVEMENT
N.T.S.



NOTE: INSTALL CONSTRUCTION JOINTS AT THE END OF EACH DAY'S PAVING OPERATION AND AT OTHER POINTS WHERE PAVING IS DISCONTINUED LONG ENOUGH FOR CONCRETE TO SET. LOCATE CONSTRUCTION JOINTS IN PLACE OF CONTRACTION JOINTS.

CONSTRUCTION JOINT DETAIL (CJ)
NTS



**SAWED CONTRACTION JOINT
LONGITUDINAL OR TRANSVERSE (SC)**
N.T.S.

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PEC JOB # **22-006**

No.	Revision	Date

Job Number
21047/BRKR 202911
Date
February 2023
Drawn By
SBG
Checked By
SBG

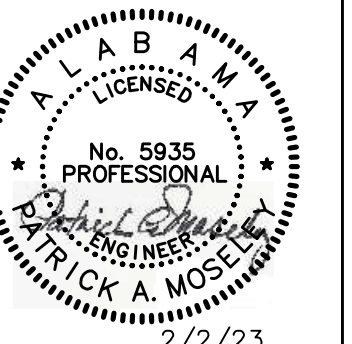
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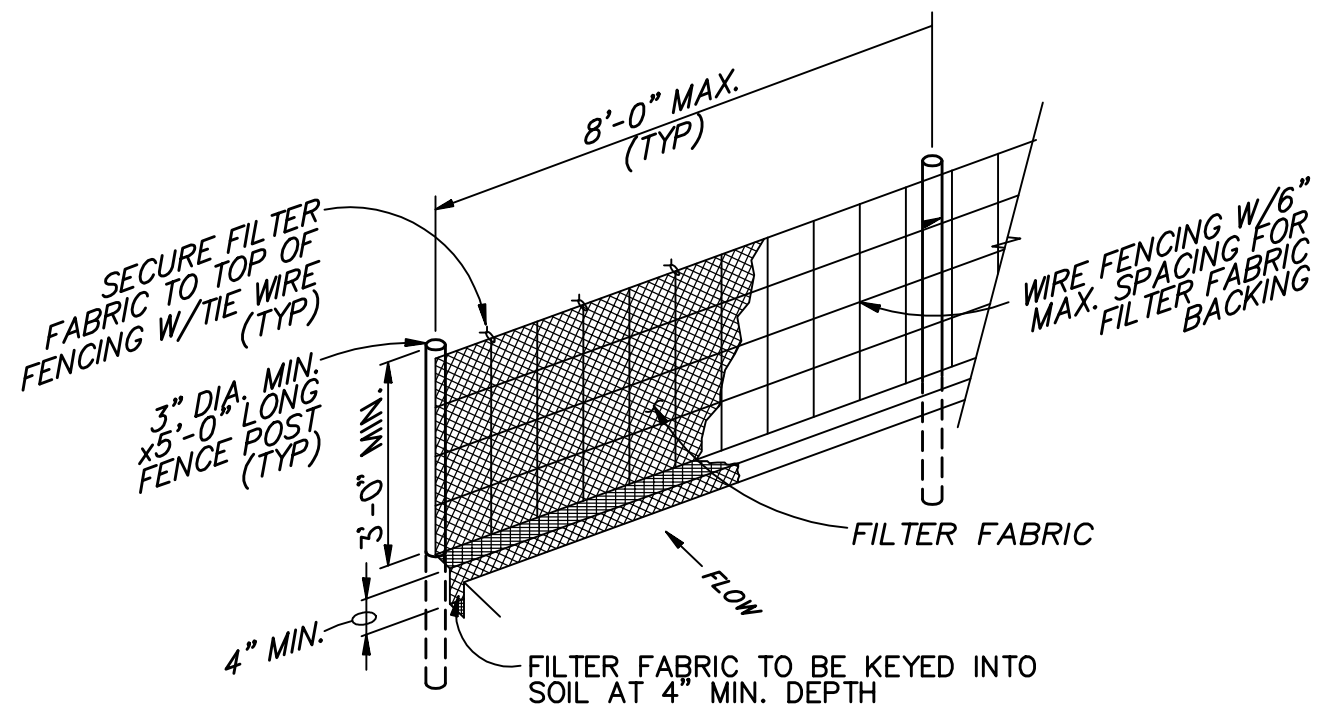
**GASNT Storage
117th Air Refueling Wing**
Birmingham, AL

Sheet Title
SITE DETAILS

Sheet Number

C4.1

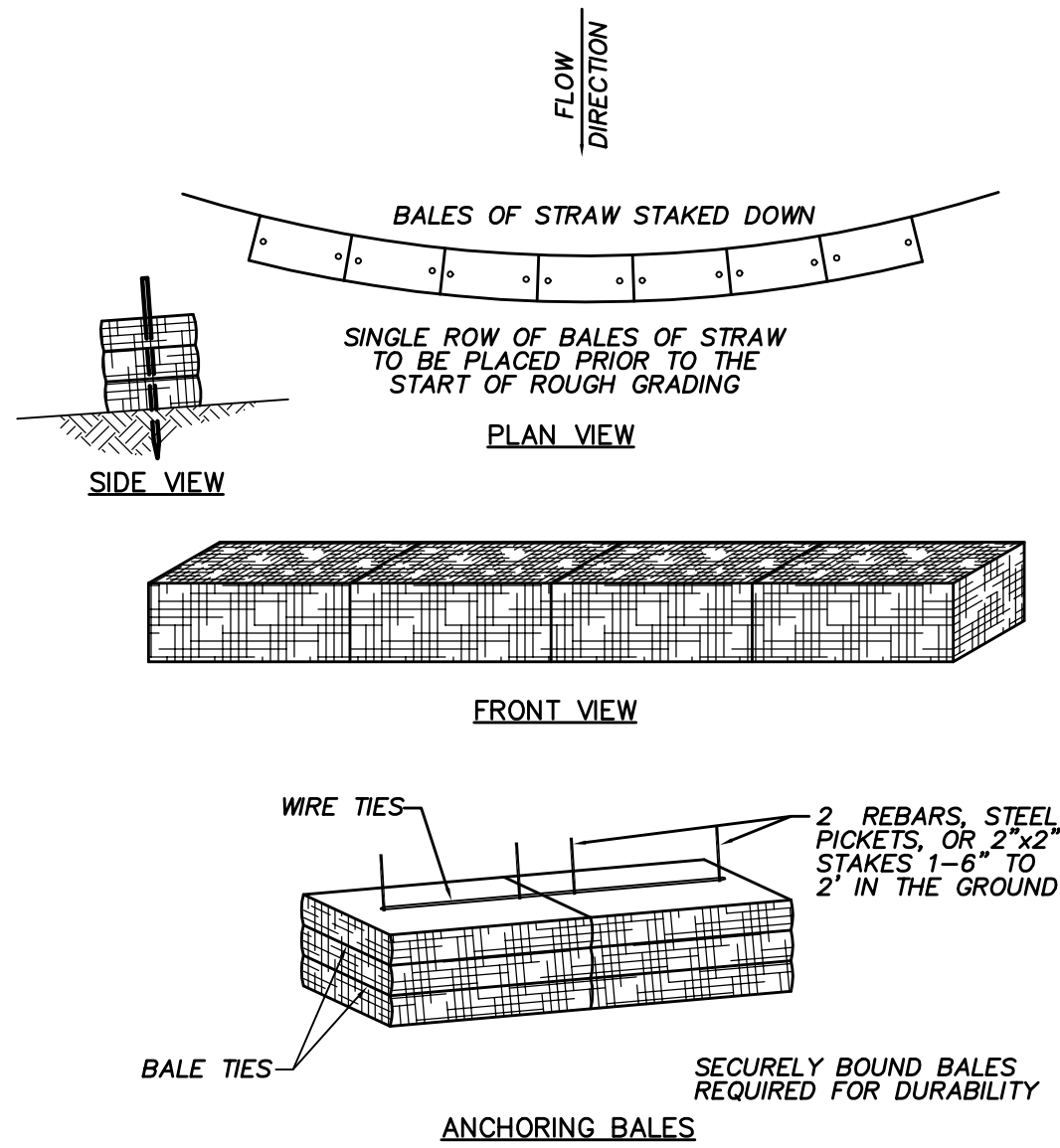




SILT FENCE DETAIL

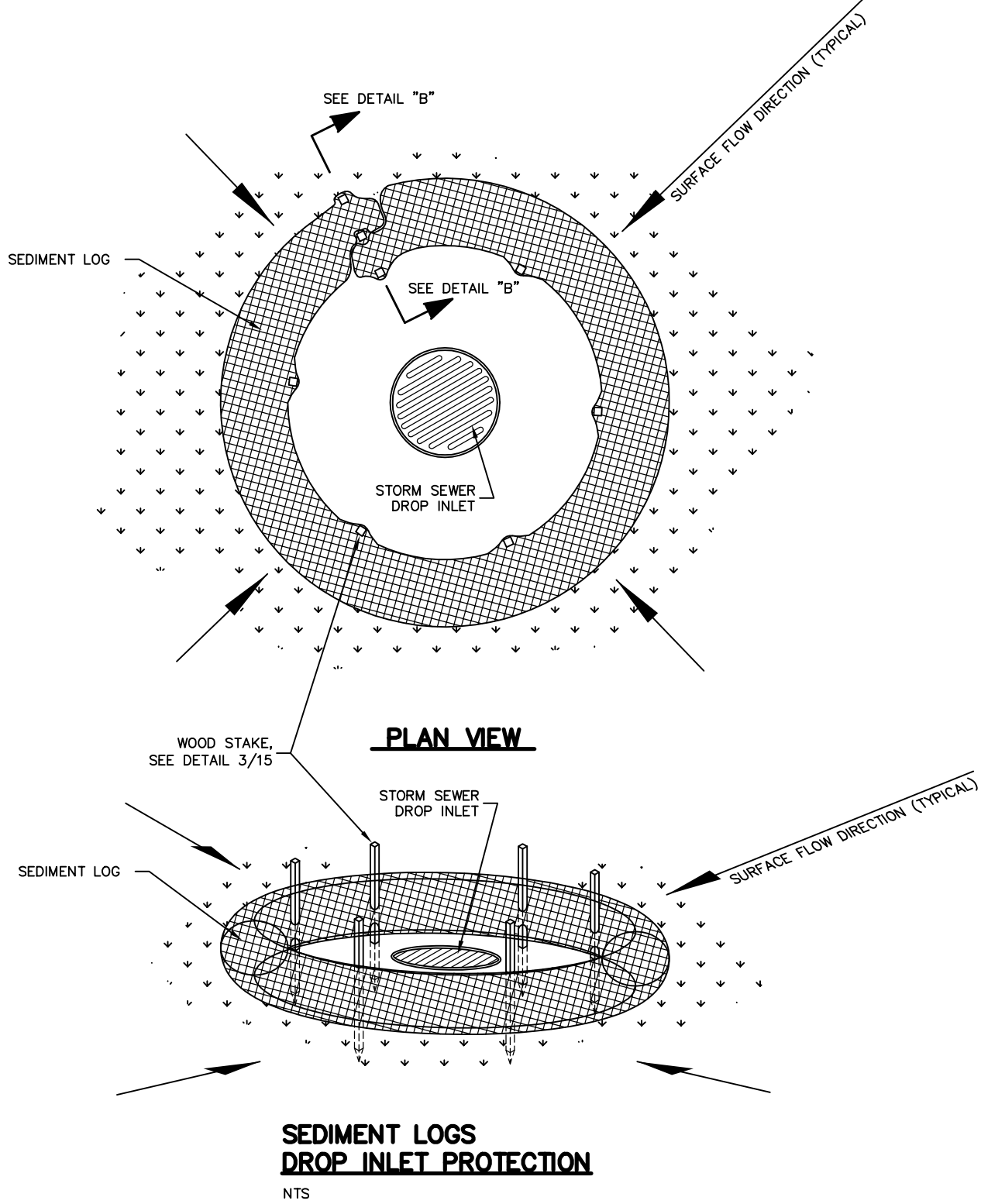
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NOTE: CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCES WHERE SHOWN ON THE DRAWINGS PRIOR TO ALLOWING ANY CONSTRUCTION ACTIVITIES TO COMMENCE



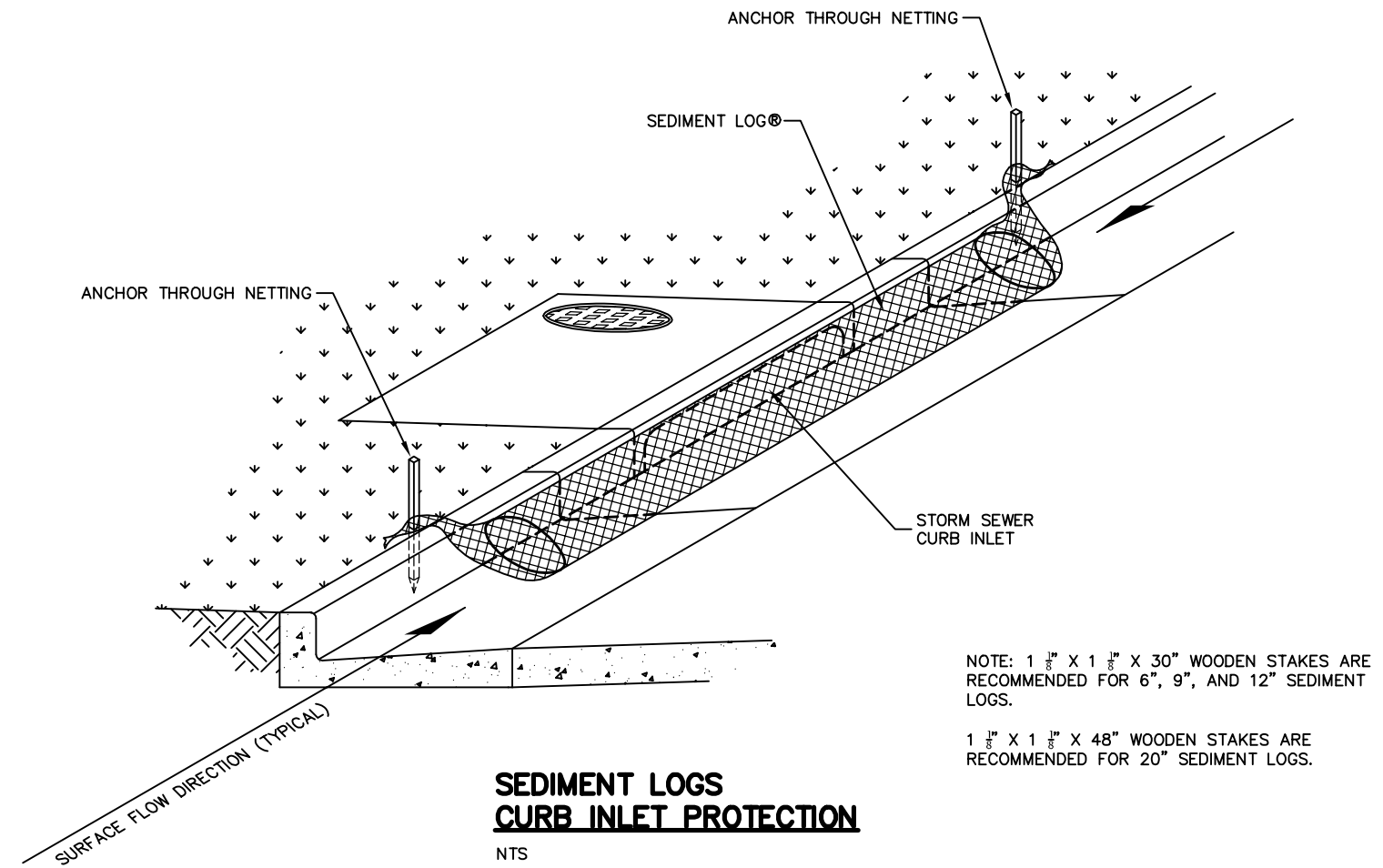
TEMPORARY STRAW BALE SEDIMENT BARRIER

NTS



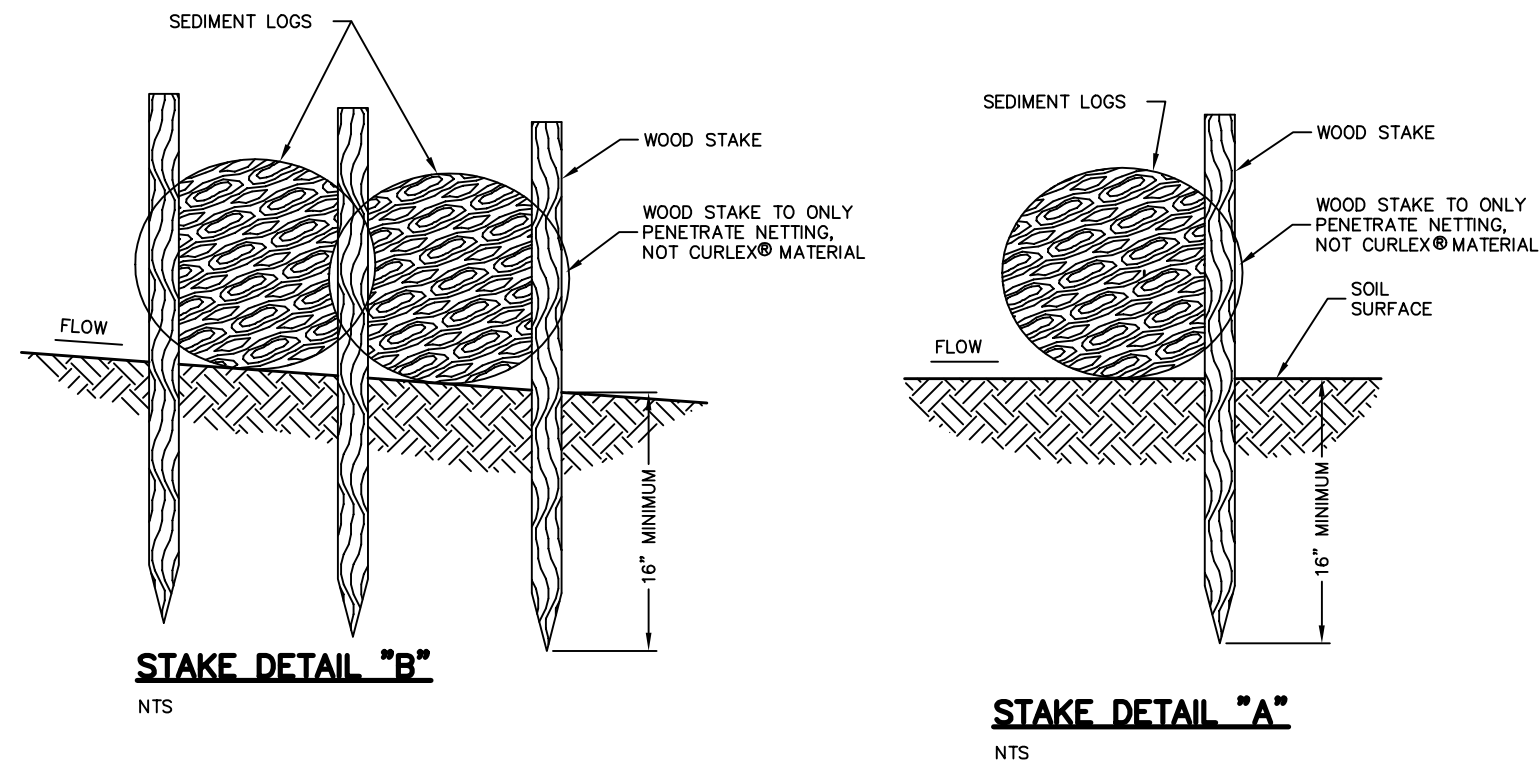
SEDIMENT LOGS DROP INLET PROTECTION

NTS



SEDIMENT LOGS CURB INLET PROTECTION

NTS



STAKE DETAIL "B"

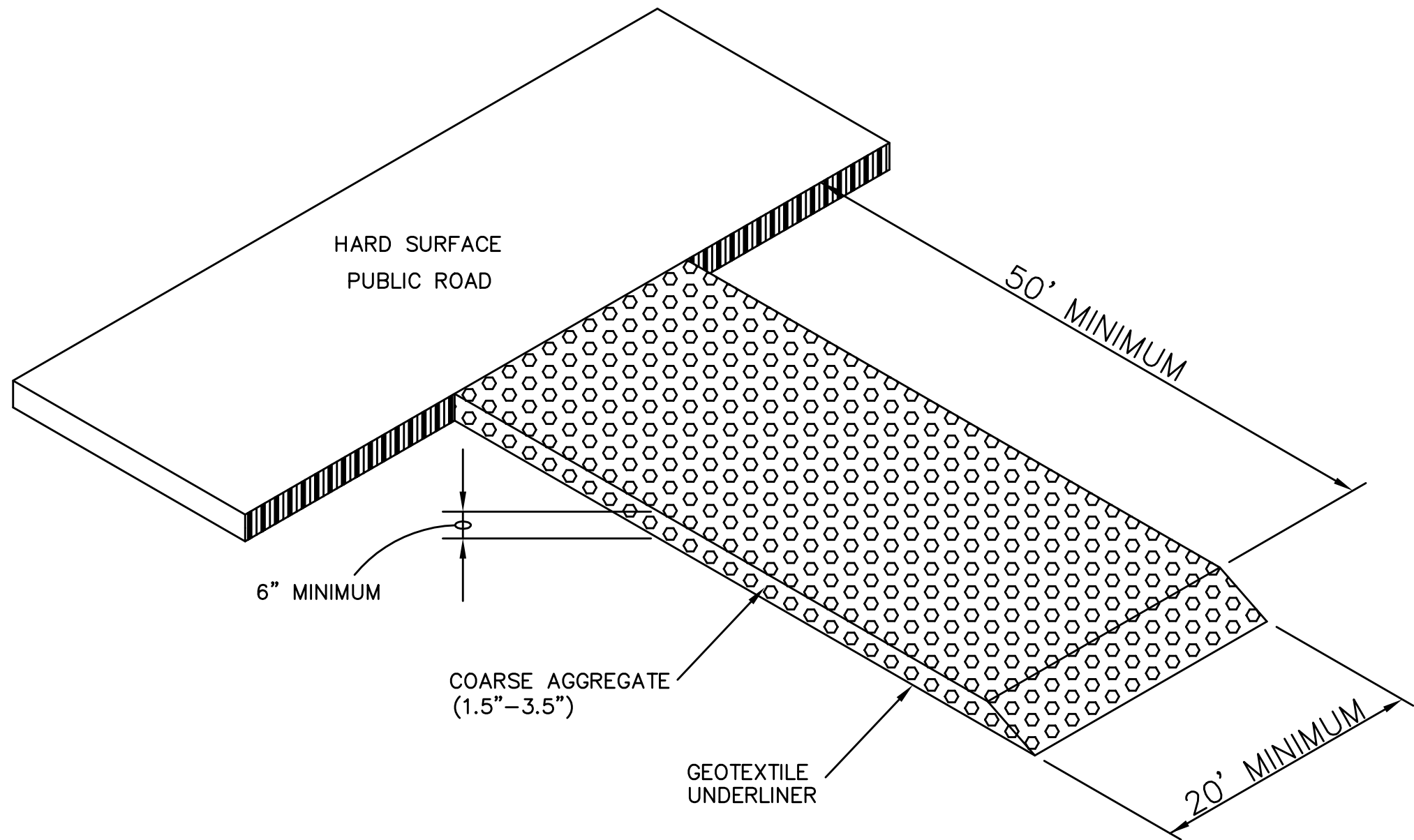
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STAKE DETAIL "A"

NTS

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. AN ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) STORMWATER PERMIT (NOI) FOR THIS PROJECT WILL NOT BE REQUIRED DUE TO THE DISTURBED AREA BEING LESS THAN ONE (1) ACRE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF EROSION CONTROL MEASURES AND THE MAINTENANCE OF SAME DURING ALL PHASES OF CONSTRUCTION.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION DUE TO CONDITIONS NOT SHOWN ON PLANS.
3. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES MAY RESULT IN CONSTRUCTION BEING HALTED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND FOLLOWING RAINFALL AND REPAIRED BY CONTRACTOR.
5. ALL SILT FENCING SHALL COMPLY WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
6. STORM DRAIN SYSTEMS SHALL BE MAINTAINED CLEAN AND FREE OF SILT AND DEBRIS.
7. A RESPONSE TO A NOTIFICATION OF NON COMPLIANCE OR INADEQUATE MEASURES SHALL BE MADE WITHIN 24 HOURS AFTER RECEIVING SUCH NOTIFICATION, UNLESS OTHERWISE SPECIFIED FOR CONDITIONS DEEMED CRITICAL.
8. IMPLEMENTATION AND MAINTENANCE:
 - A) IMPLEMENTATION:
 1. NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL APPROVED EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
 2. THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO ALL FEATURES OF THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO STREET AND UTILITY INSTALLATIONS AS WELL.
 - B) MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT.
9. ALL EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THIS CONTRACT.



NOTE: UNLESS SHOWN OTHERWISE ON PLANS, CONTRACTOR HAS OPTION ON EXACT LOCATION OF CONSTRUCTION EXIT.

STABILIZED CRUSHED STONE CONSTRUCTION EXIT

NOT TO SCALE

PEC

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PEC JOB # **22-006**

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No.	Revision	Date

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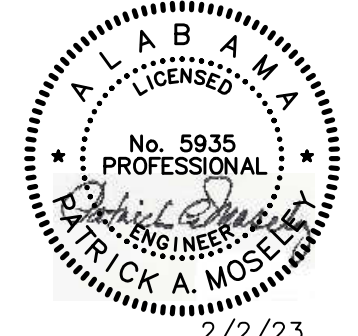
Project Title

**GASNT Storage
117th Air Refueling Wing
Birmingham, AL**

Sheet Title
SITE DETAILS

Sheet Number

C5.1



2/2/23

General Demolition Notes:

THE INTENT OF DEMOLITION IS TO ACCOMPLISH ALL WORK NECESSARY TO PROVIDE A FINISHED, COMPLETE BUILDING AS INDICATED IN THE PLANS AND SPECIFICATIONS. THE FOLLOWING GENERAL NOTES ARE APPLICABLE TO ALL DEMOLITION ACTIVITIES REQUIRED BY THE SCOPE OF THE CONTRACT DOCUMENTS.

CONTRACTOR'S RESPONSIBILITY TO VERIFY ACCURACY OF EXISTING CONDITIONS:

- 1. DOCUMENTATION CONTAINED IN THESE CONSTRUCTION DOCUMENTS OF EXISTING CONDITIONS MAY NOT BE ENTIRELY ACCURATE. CONTRACTOR IS TO TAKE THE INITIATIVE TO VISIT THE SITE PRIOR TO AND DURING THE PRE-BID MEETING TO VERIFY ACTUAL CONDITIONS, THEREFORE RENDERING THE CONTRACTOR RESPONSIBLE FOR AN ACCURATE REPRESENTATION OF THE EXISTING CONDITIONS.
- 2. CONTRACTOR TO VISIT SITE TO VERIFY EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR DETERMINING THE SCOPE OF WORK PRIOR TO DEMOLITION . EXISTING CONDITIONS SHALL BE THOROUGHLY RESEARCHED PRIOR TO CONSTRUCTION AND ANY DRAWINGS SHALL BE IMMEDIATELY DISCUSSED WITH ARCHITECT PRIOR TO BEGINNING CONSTRUCTION IN THE AFFECTED AREA. CHANGE ORDERS WILL NOT BE APPROVED PRIOR TO WORK TAKING PLACE FOR EXISTING CONDITIONS READILY APPARENT BY A THOROUGH OBSERVATION.
- 3. CONTRACTOR TO VERIFY ALL EXISTING FLOOR ELEVATIONS AND VERIFY WITH PLANS. REPORT ANY DISCREPANCIES TO THE GOVERNMENT PRIOR TO CONSTRUCTION
- 4. DIMENSIONS OF EXISTING STRUCTURES ARE ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. LOCATION OF WALLS SHALL BE AS SHOWN ON PLANS RELATIVE TO EXISTING CONDITIONS.
- 5. THE GOVERNMENT ASSUMES NO RESPONSIBILITY FOR EXISTING UNKNOWN CONDITIONS. EACH CONTRACTOR SHALL COORDINATE NEW CONSTRUCTION WITH EXISTING CONSTRUCTION AND INVESTIGATE IN A REASONABLE MANNER REGARDING HIDDEN CONDITIONS.

SAFEGUARDS DURING DEMOLITION:

- 1. CONTRACTOR TO MAKE SURE ALL INFRASTRUCTURE (POWER, GAS, WATER, CABLING, ETC...) IS TURNED OFF AND/OR REMOVED PRIOR TO DEMOLITION.
- 2. CONTRACTOR TO VERIFY ALL LOAD BEARING CONDITIONS AND PROVIDE SHORING AS REQUIRED IN ALL AFFECTED AREAS PRIOR TO & DURING DEMOLITION AND/OR CONSTRUCTION.
- 3. ALL CURRENT OSHA AND APPLICABLE STANDARDS SHALL BE UPHELD TO ASSURE SAFETY OF ALL PERSONS ON SITE DURING ENTIRE COURSE OF CONSTRUCTION.
- 4. PROTECT ALL EXISTING BUILT IN EQUIPMENT AS REQUIRED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING EQUIPMENT RESULTING FROM CONSTRUCTION ACTIVITIES AT NO COST TO THE GOVERNMENT. VERIFY CONDITIONS OF EXISTING EQUIPMENT WITH THE GOVERNMENT PRIOR TO BEGINNING ON SITE DEMOLITION AND CONSTRUCTION ACTIVITIES.

CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL ENCUMBRANCES REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEMS:

- 1. REMOVAL OF ALL ENCUMBRANCES INCLUDING BUT NOT LIMITED TO CONCRETE, WOOD, DUCTS, PIPING, WIRING, SHALL BE DONE BY THE CONTRACTOR TO ACHIEVE FLOOR PLANS AS SHOWN EVEN IF NOT SHOWN ON DEMOLITION PLANS.
- 2. REMOVE ALL CEILINGS AND ITEMS ABOVE CEILINGS THAT ARE NOT REQUIRED IN THE RENOVATED BUILDING AND AS REQUIRED TO INSTALL NEW HVAC, PLUMBING, LIGHTING, ELECTRICAL, ETC. FOR FULLY FUNCTIONING SYSTEMS.
- 3. REMOVE ANY UNUSED PENETRATIONS AND INSTALL NEW DECKING/ROOFING OVER ANY OPENINGS
- 4. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE GYPSUM WALLBOARD AND ANY FURRING STRIPS AND/OR FASTENERS FROM EXTERIOR WALLS TO PREPARE FOR NEW FINISH.
- 5. REMOVE ALL ABANDONED FIXTURES, PIPING, CONDUIT WIRING, INSULATION, EQUIPMENT, STRUCTURAL SUPPORTS, ARCHITECTURAL SYSTEMS., ETC... NO LONGER IN USE OR UNNECESSARY FOR THE RENOVATED PROJECT. PROVIDE PATCHING WITH MATERIALS CONSISTENT WITH ADJACENT MATERIALS AND FINISHES REQUIRED, UNLESS OTHERWISE NOTED, TO MEET ALL APPLICABLE CODES.
- 6. REMOVE ALL EXISTING FINISHES AS REQUIRED IN PREPARATION FOR INSTALLATION OF NEW FINISHES. SEE FINISH SCHEDULE AND PROJECT SPECIFICATIONS.
- 7. REMOVE ALL MISCELLANEOUS HARDWARE, PANELING, CLIPS, FASTENERS, WIRE, CONDUIT, PIPES, ETC... FROM ANY AND ALL SURFACES TO RECEIVE A NEW FINISH. PATCH SUBSTRATES BY FILLING, GRINDING AND SANDING SMOOTH WITH ACCEPTABLE CONSTRUCTION INDUSTRY AND CODE COMPLIANT MATERIALS. PREPARE SURFACE FOR ACCEPTANCE OF MANUFACTURER SPECIFIED FINISH AND SURFACE TREATMENT. INSTALLATION OF FINISH INDICATES ACCEPTANCE OF SUBSTRATE BY APPLICATOR. WHERE NO NEW FINISHES OCCUR, PATCH EXISTING MATERIALS WITH MATCHING MATERIALS SO THAT PATCH WORK IS NOT VISIBLE.
- 8. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL OF DEMOLISHED MATERIALS: FOR THE PATCHING OF EXISTING SURFACES, INCLUDING OPENINGS IN FLOORS, WALLS, ETC. TO MATCH UNDISTURBED EXISTING SURFACES, AND FOR LEAVING THE AREA IN A CLEAN CONDITION. REFER TO CONTRACT DOCUMENTS FOR SPECIFIC FLOOR RELATED DETAILS.

CONTRACTOR'S RESPONSIBILITY TO RETURN THE SITE/STRUCTURE TO PRE-WORK CONDITIONS

- 1. CONTRACTOR TO TAKE EXTREME CARE AT EXISTING EXTERIOR FINISHES, INCLUDING BUT NOT LIMITED TO BRICK, METALWORK, WINDOWS, AND DOORS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXTERIOR FINISHES THAT WERE COMPROMISED DURING THE COURSE OF CONSTRUCTION.
- 2. CONTRACTOR TO PROTECT ALL FINISHES TO REMAIN ON INTERIOR OF EXISTING SPACES INCLUDING WALLS, CEILINGS, FLOORS, DOORS, FIXTURES, ETC.
- 3. CONTRACTOR SHALL LEAVE WORK SITE GENERALLY CLEAN AT THE END OF EACH WORK DAY (ESPECIALLY AROUND THE EXTERIOR OF THE BUILDING AND WITHIN THE STAGING AREA).

CONTRACTOR'S RESPONSIBILITY REGARDING REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS:

- 1. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL LAWS, REGULATIONS, AND/OR ORDINANCES REGARDING THE METHOD OF DEMOLITION AND DISPOSAL OF WASTE MATERIALS. THE GOVERNMENT ASSUMES NO LIABILITY FOR EXTRA WORK OR ADDITIONAL COMPENSATION DUE TO FAILURE OF THE TRADE CONTRACTOR OR SUBCONTRACTORS TO COMPLY WITH ANY AND ALL SUCH REGULATIONS THAT APPLY.

General Demolition Notes (Continued):

CONTRACTOR'S RESPONSIBILITY REGARDING HAZARDOUS MATERIALS:

- 1. CONTRACTOR SHALL COMPLY WITH ALL SPECIFIED REQUIREMENTS AND GOVERNING CODES/LAWS/REGULATIONS REGARDING REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS.
- 2. AN ENVIRONMENTAL ASSESSMENT HAS NOT BEEN COMPLETED.
- 3. IF HAZARDOUS MATERIALS NOT NOTED IN THE CONTRACT DOCUMENTS ARE ENCOUNTERED, NOTIFY THE CONTRACTING OFFICER REPRESENTATIVE PRIOR TO PROCEEDING.

ADDITIONAL MISCELLANEOUS PROVISIONS

- 1. GENERAL DEMOLITION NOTES APPLY TO THE ENTIRE PROJECT. SPECIFIC NOTES (DESIGNATED) APPLY TO ISOLATED WORK AREAS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, ALL ISOLATED WORK AREAS ARE NOT NOTED. SHOULD A CONDITION OCCUR THAT IS NOT SPECIFICALLY NOTED, THE CONTRACTOR SHALL PROCEED WITH WORK PER GENERAL DEMOLITION NOTES OR A SPECIFIC WORK NOTE(S) USED IN OTHER SIMILAR CONDITIONS, WHICHEVER IS MORE STRINGENT, PER APPROVAL OF ARCHITECT VIA OWNER.
- 2. REFER ALSO TO SELECTED DEMOLITION, SUMMARY OF WORK, GOVERNMENT SOLICITATION DOCUMENTS, AND OTHER SPECIFICATION SECTIONS REQUIRED.
- 3. REFER TO CIVIL, FIRE SUPPRESSION, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL FOR ADDITIONAL DEMOLITION AND REPARATION REQUIREMENTS. PATCH ALL LOCATIONS REQUIRED BY FIRE SUPPRESSION, PLUMBING, MECHANICAL, AND ELECTRICAL DEMOLITION. MATCH ADJACENT CONDITIONS, UNLESS OTHERWISE NOTED. ALL REQUIRED TRENCHING AND REPLACEMENT OF EXISTING SLABS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. DURING ROOFING DEMOLITION PROVIDE TEMPORARY ROOFING AS REQUIRED TO PROTECT BUILDING FROM DAMAGE.
- 5. CONTRACTOR TO ASSUME ALL CONCRETE INDICATED TO BE REMOVED IS REINFORCED.
- 6. IN LOCATION WHERE THE PLANS CALL FOR THE DEMOLITION OF THE EXISTING EXTERIOR BRICK VENEER, THE CONTRACTOR SHALL DISMANTLE THE BRICK VENEER AND REMOVE ALL MORTAR FOR USE IN OTHER LOCATIONS FOR PATCHING. CONTRACTOR SHALL COORDINATE, WITH ARCHITECT, LOCATIONS WHERE RECYCLED BRICK ARE TO BE USED FOR PATCHING.
- 7. AT LOCATIONS IN EXISTING FIRE WALLS WHERE SERVICES ARE REMOVED OR OPENINGS ARE CREATED, PATCH WALLS TO MAINTAIN REQUIRED FIRE RATING.
- 8. REMOVE AND REPLACE ALL EXISTING VERTICAL AND HORIZONTAL EXTERIOR BRICK VENEER CONTROL JOINTS. SUBMIT ACTUAL SEALANT JOINT COLOR SAMPLES TO THE GOVERNMENT FOR APPROVAL.

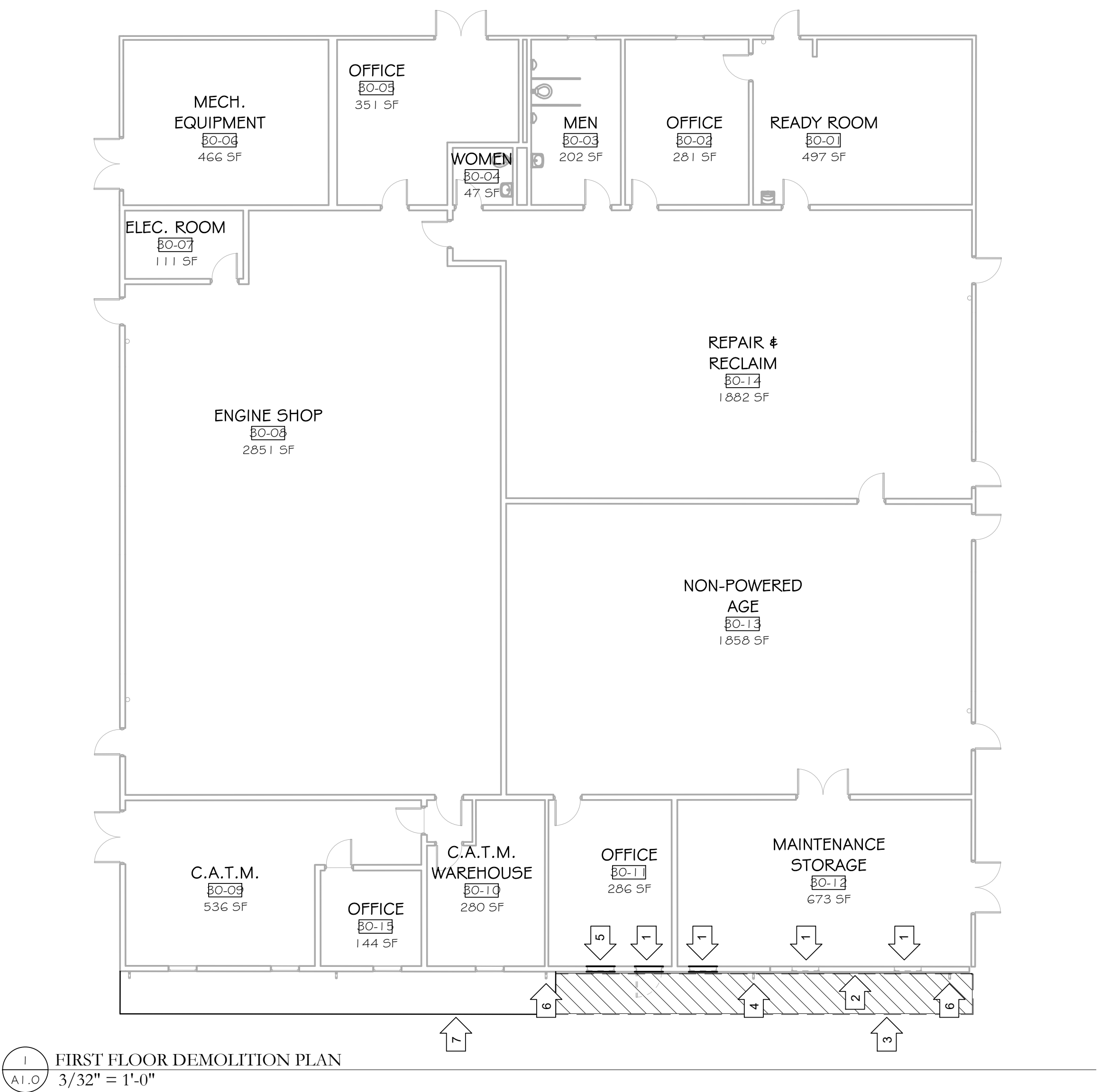
LEGEND:

- EXISTING TO BE DEMOLISHED
- EXISTING TO REMAIN
- xx → SPECIFIC NOTE TAG (SEE DEMOLITION NOTES SHEET)
- ▨ REMOVE SLAB IN LOCATION MARKED IN PREPARATION FOR NEW WORK

DOTTED LINE GENERALLY INDICATES EXISTING AREAS TO BE REMOVED, INCLUDING BUT NOT LIMITED TO WALLS, DOORS, FLOOR COVERING, CEILINGS, ETC... IN CASE OF UNCERTAINTY PROVIDE WRITTEN REQUEST TO ARCHITECT.

Specific Demolition Notes:

- 1 → REMOVE EXISTING WINDOWS AND PREPARE OPENINGS FOR INFILL.
- 2 → REMOVE EXISTING EXTERIOR METAL PANELS AND BRICK WORK NECESSARY TO CONSTRUCT THE NEW ADDITION.
- 3 → REMOVE EXISTING SIDEWALK PAVEMENT NECESSARY TO CONSTRUCT THE NEW ADDITION.
- 4 → REMOVE EXISTING DOWNSPOUT AND SEGMENTS OF GUTTER REQUIRED TO TIE INTO THE NEW ADDITION GUTTERS.
- 5 → REMOVE EXISTING WINDOW ASSEMBLY AND WALL BELOW WINDOW AS REQUIRED TO INSTALL NEW DOOR ASSEMBLY. REFER TO FLOOR PLAN.
- 6 → EXISTING DOWNSPOUT TO REMAIN.
- 7 → EXISTING SIDEWALK TO REMAIN



1 FIRST FLOOR DEMOLITION PLAN
A1.0 3/32" = 1'-0"

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ARCHITECTURE & INTERIOR DESIGN

Montgomery | Dothan | WWW.SSLARCH.COM

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Rev.	Description	Date

Job Number

21047 / BRKR 2029 | I

Date

February 2023

Drawn By

NV, NJ

Checked By

DCD

Project Title

GLOBAL ASNT STORAGE FACILITY
Birmingham, AL

Sheet Title

DEMOLITION NOTES & PLAN

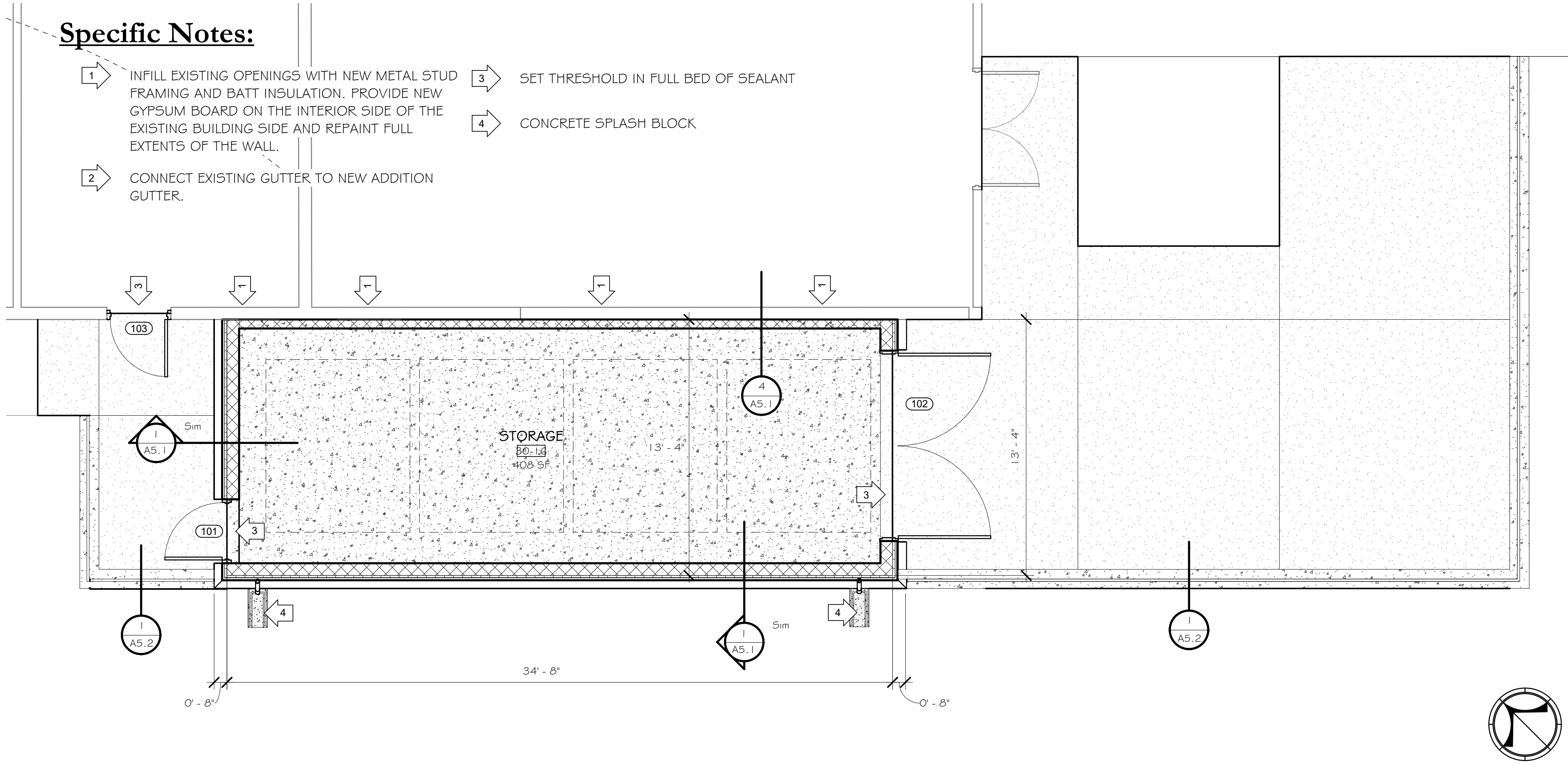
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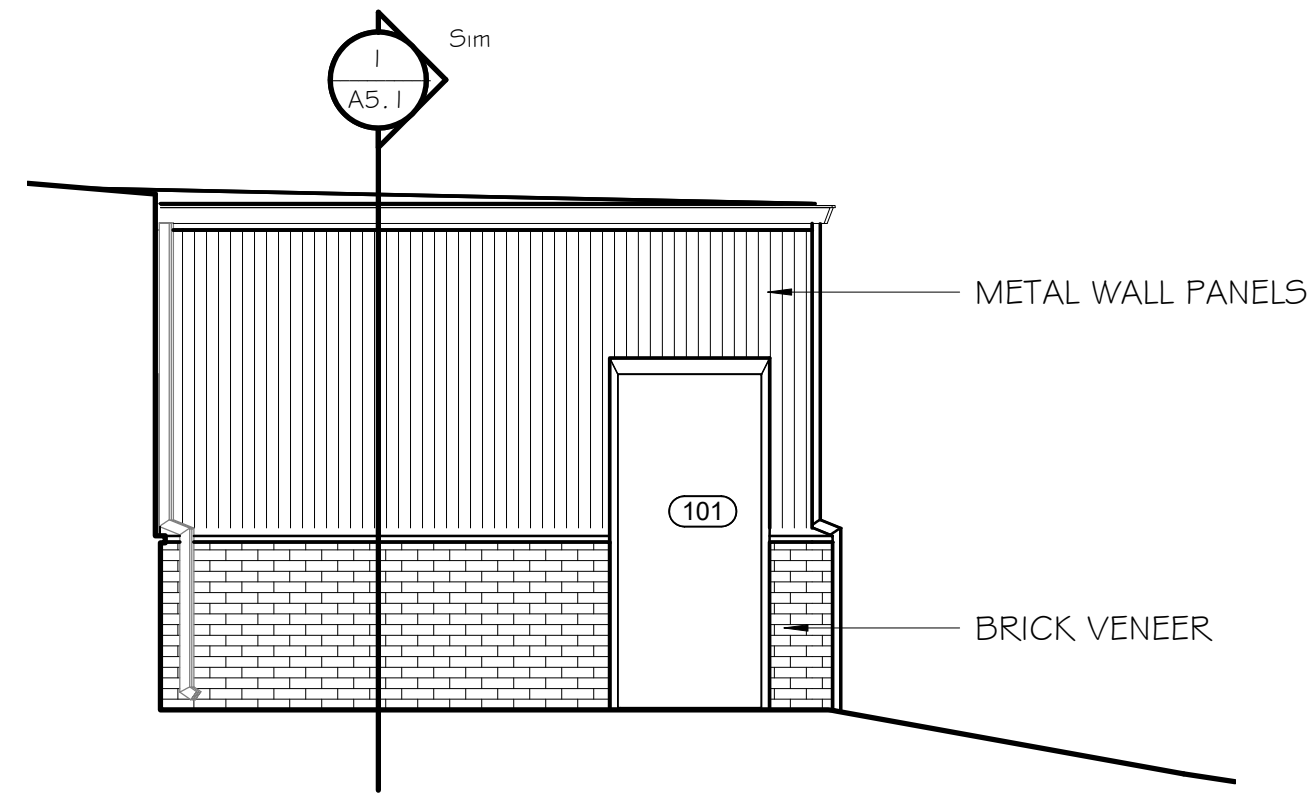
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MONTGOMERY
JIM H. SEAY JR.
1846
FRANK LITCHFIELD
2388
REGISTERED ARCHITECTS
ALABAMA

Specific Notes:

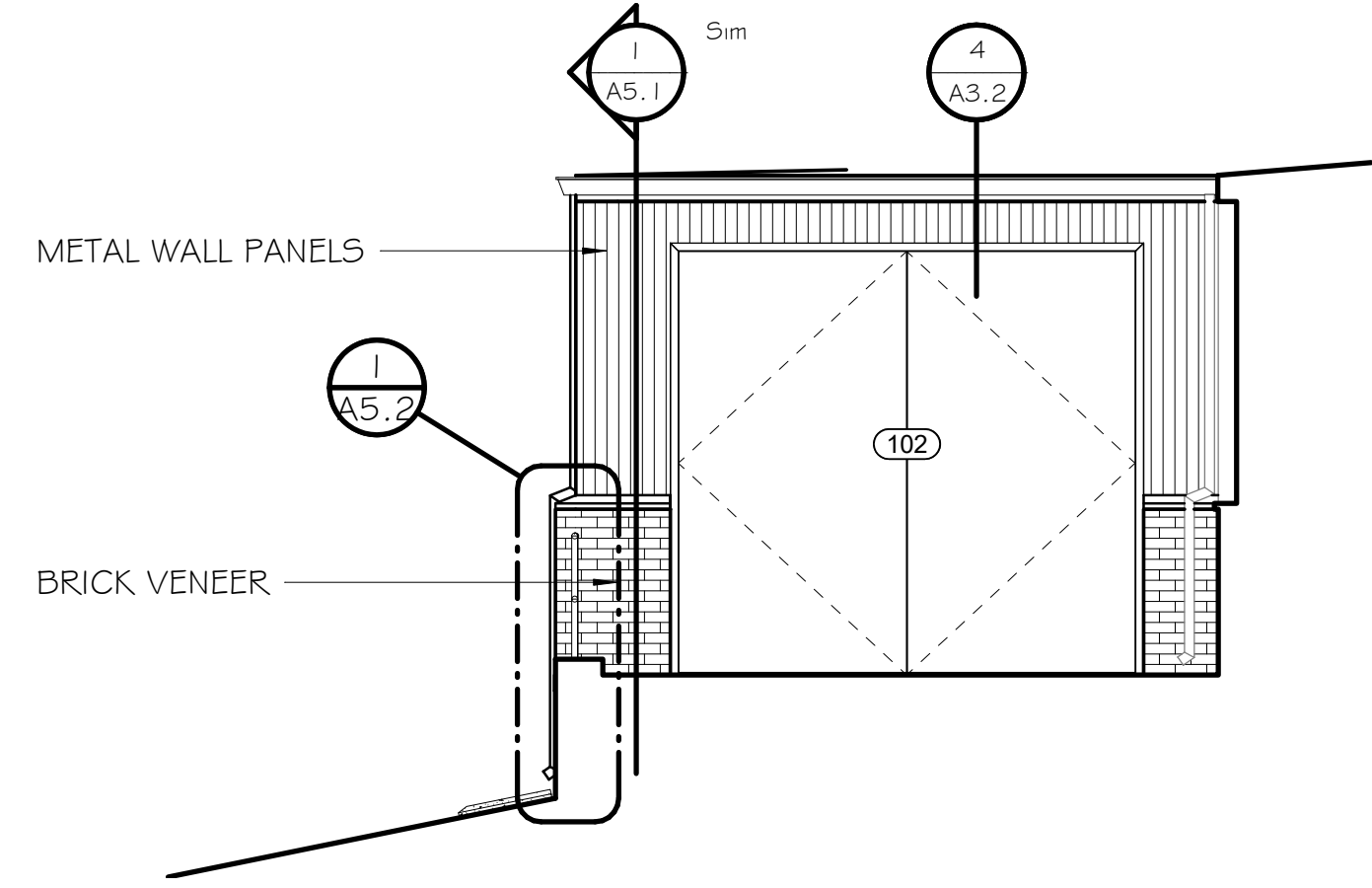
- 1 INFILL EXISTING OPENINGS WITH NEW METAL STUD FRAMING AND BATT INSULATION. PROVIDE NEW GYPSUM BOARD ON THE INTERIOR SIDE OF THE EXISTING BUILDING SIDE AND REPAINT FULL EXTENTS OF THE WALL.
- 2 CONNECT EXISTING GUTTER TO NEW ADDITION GUTTER.
- 3 SET THRESHOLD IN FULL BED OF SEALANT
- 4 CONCRETE SPLASH BLOCK



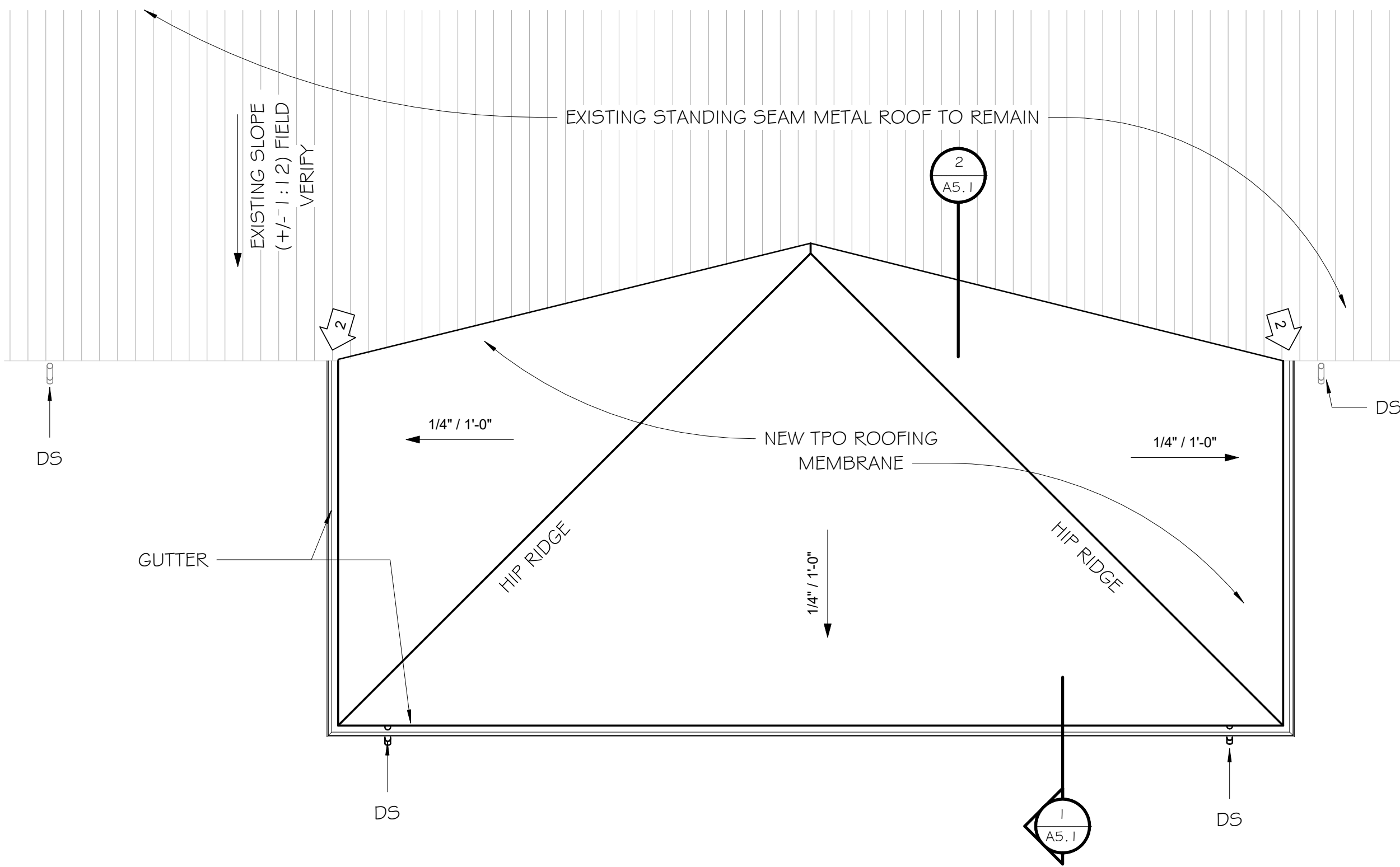
1 FIRST FLOOR
A2.1 1/4" = 1'-0"



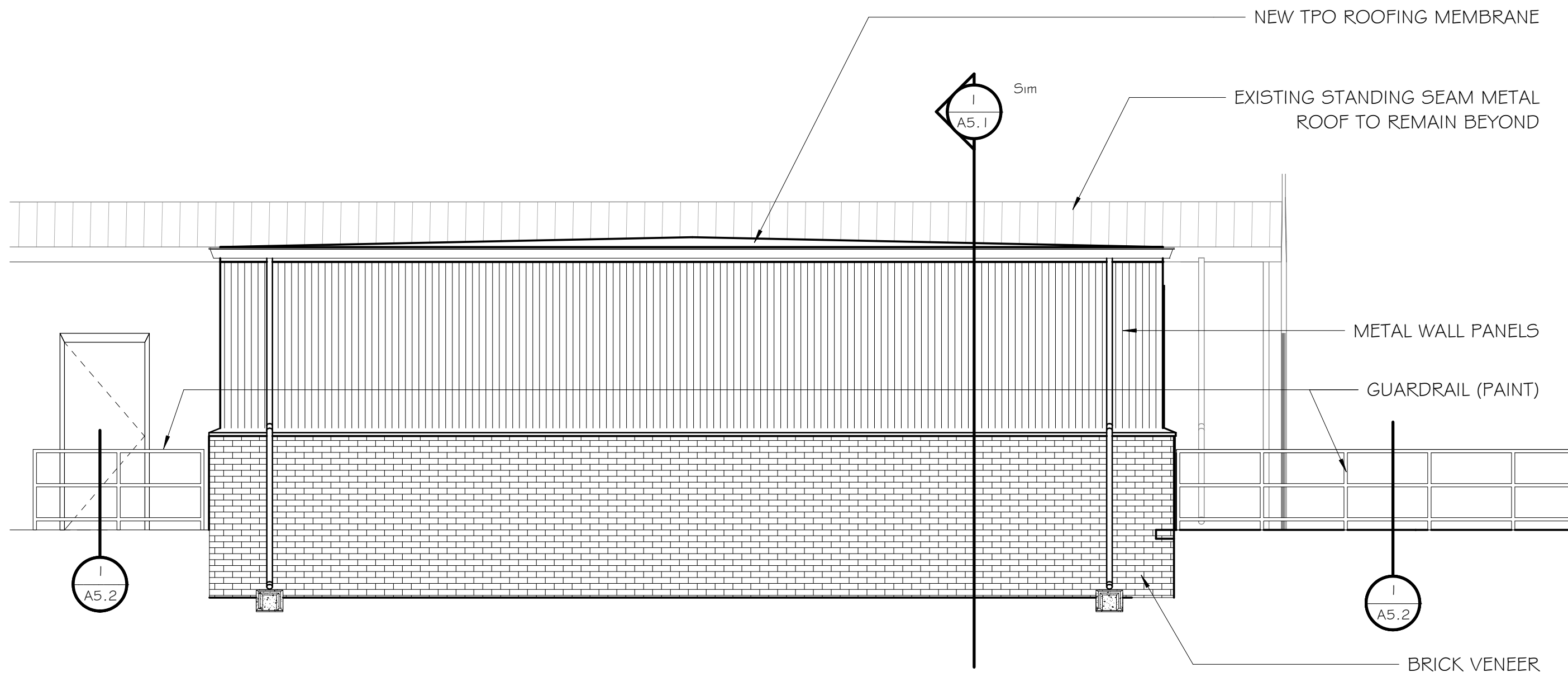
2 NORTHWEST ELEVATION
A2.1 1/4" = 1'-0"



3 SOUTHEAST ELEVATION
A2.1 1/4" = 1'-0"



5 ROOF PLAN
A2.1 1/4" = 1'-0"



4 SOUTHWEST ELEVATION
A2.1 1/4" = 1'-0"

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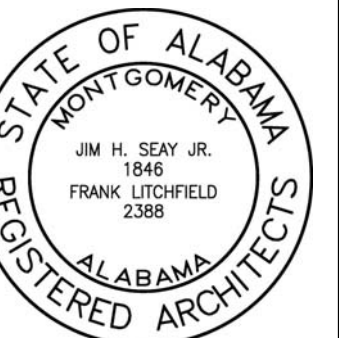
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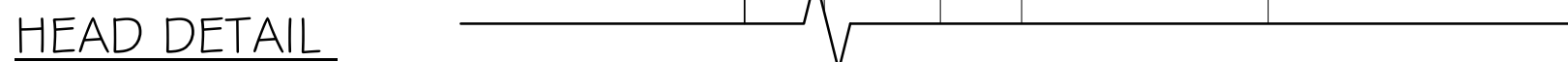
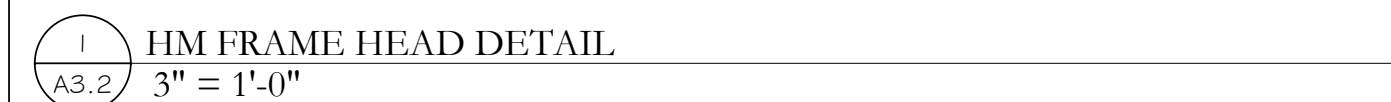
GLOBAL ASNT
STORAGE FACILITY
Birmingham, AL

Sheet Title
PLANS &
ELEVATIONS

Sheet Number

A2.1





SC - SEALED CONCRETE - REFER TO SPECIFICATION
SECTION 09 9123

1.) ALL WALL PAINT TO EXTEND TO DECK WHEN CEILING IS EXPOSED. PAINT EVERYTHING EXPOSED TO VIEW INCLUDING BUT NOT LIMITED TO FIRE PROTECTION, STRUCTURAL, MECHANICAL, ELECTRICAL.

FINISH SCHEDULE											
NO.	ROOM NAME	FLOOR		WALL				CEILING FINISH	DOORS		NOTES
		FINISH	BASE FINISH	FINISH			FINISH		CASING & TRIM		
				NORTH WALL	EAST WALL	SOUTH WALL				WEST WALL	
LIFE SAFETY PLAN											
30-16	STORAGE	SC		PNT-1	PNT-1	PNT-1	PNT-1	EXPOSED/PNT-3	PNT-2	PNT-2	

[illegible]

LIFE SAFETY PLAN											
I 01	1	3' - 0"	7' - 0"	0' - 1 3/4"	F HM EXT	HM F2 EXT	1/A3.2	2/A3.2	3/A3.2		
I 02	2	9' - 8"	8' - 11 1/2"	0' - 1 3/4"	F HM EXT	HM F1 EXT	4/A3.2	4/A3.2	3/A3.2		
I 03	1	3' - 0"	7' - 0"	0' - 1 3/4"	F HM EXT	HM F2 EXT					INSTALL NEW DOOR IN EXISTING WINDOW OPENING

[illegible]

Job Number

21047 / BRKR 202911

February 2023

Drawn By

Checked By	_____, _____
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DCD

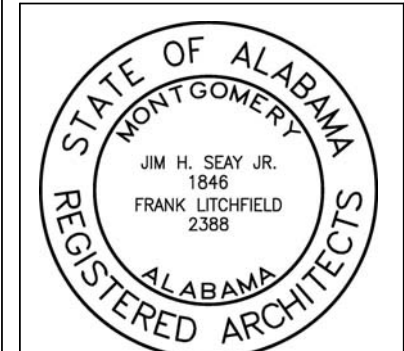
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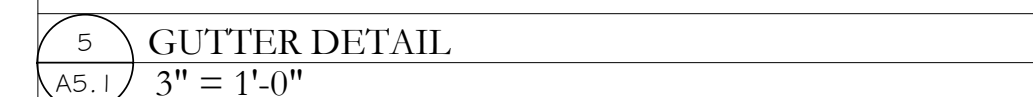
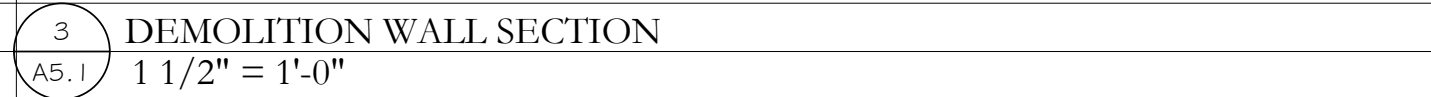
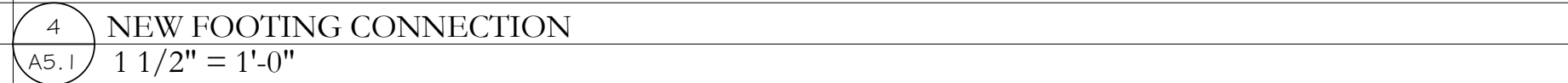
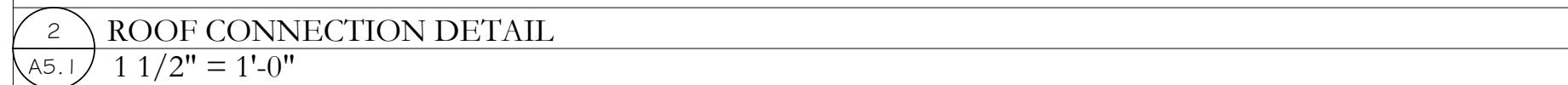
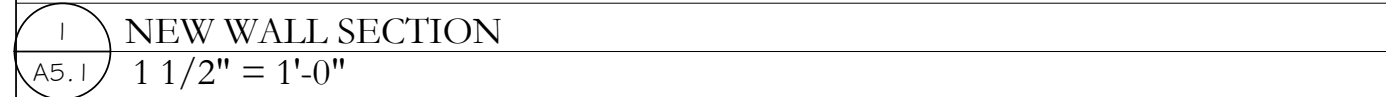
GLOBAL ASNT
STORAGE FACILITY
Birmingham, AL

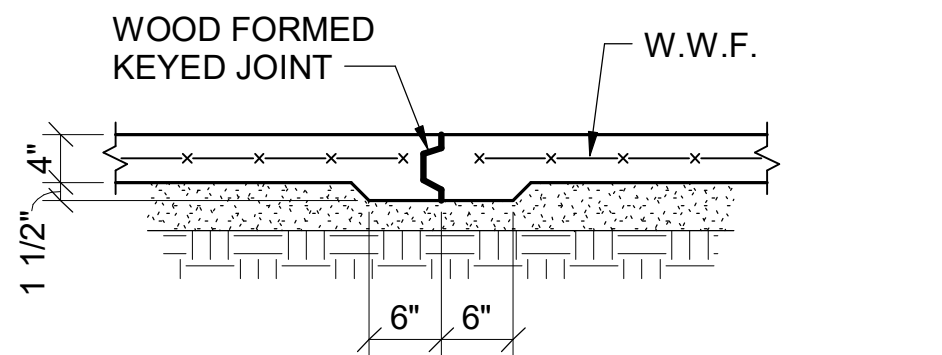
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DOOR & FINISH
SCHEDULES

Sheet Number

A3.2

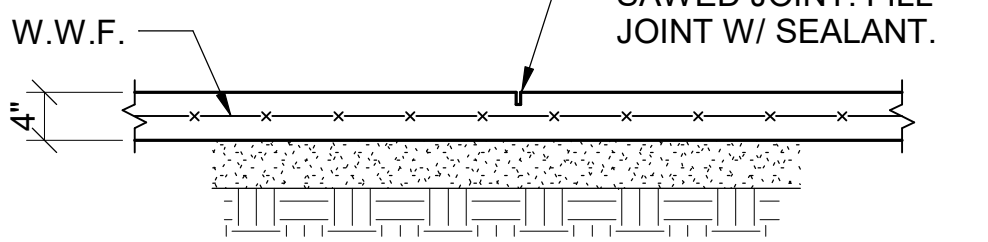




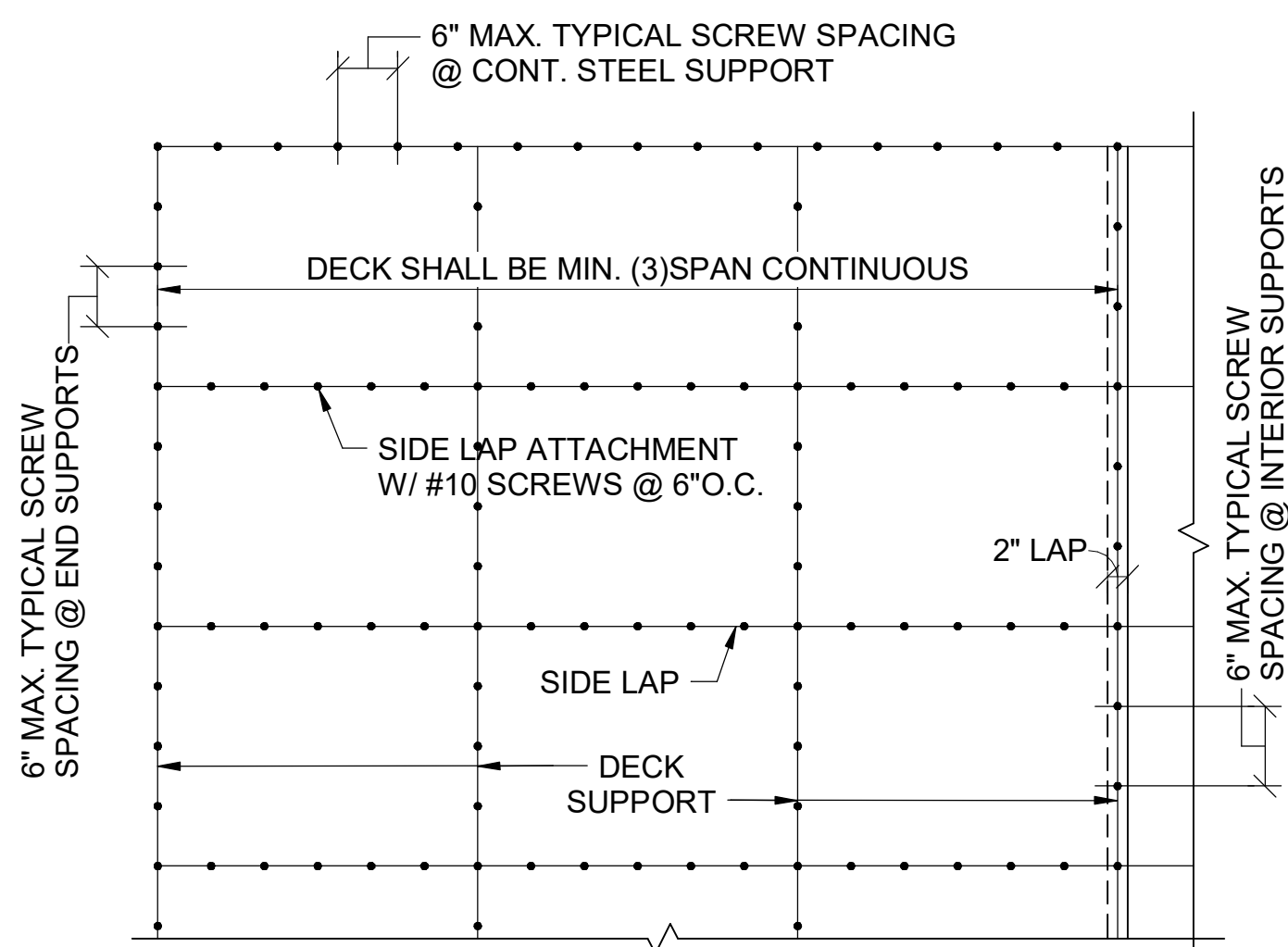


TYPICAL SLAB CONSTRUCTION
JOINT DETAIL-(C.J.)

NOTE:
IF SAWED JOINTS ARE USED,
JOINTS MUST BE SAWED
SAME DAY AS SLAB POUR.

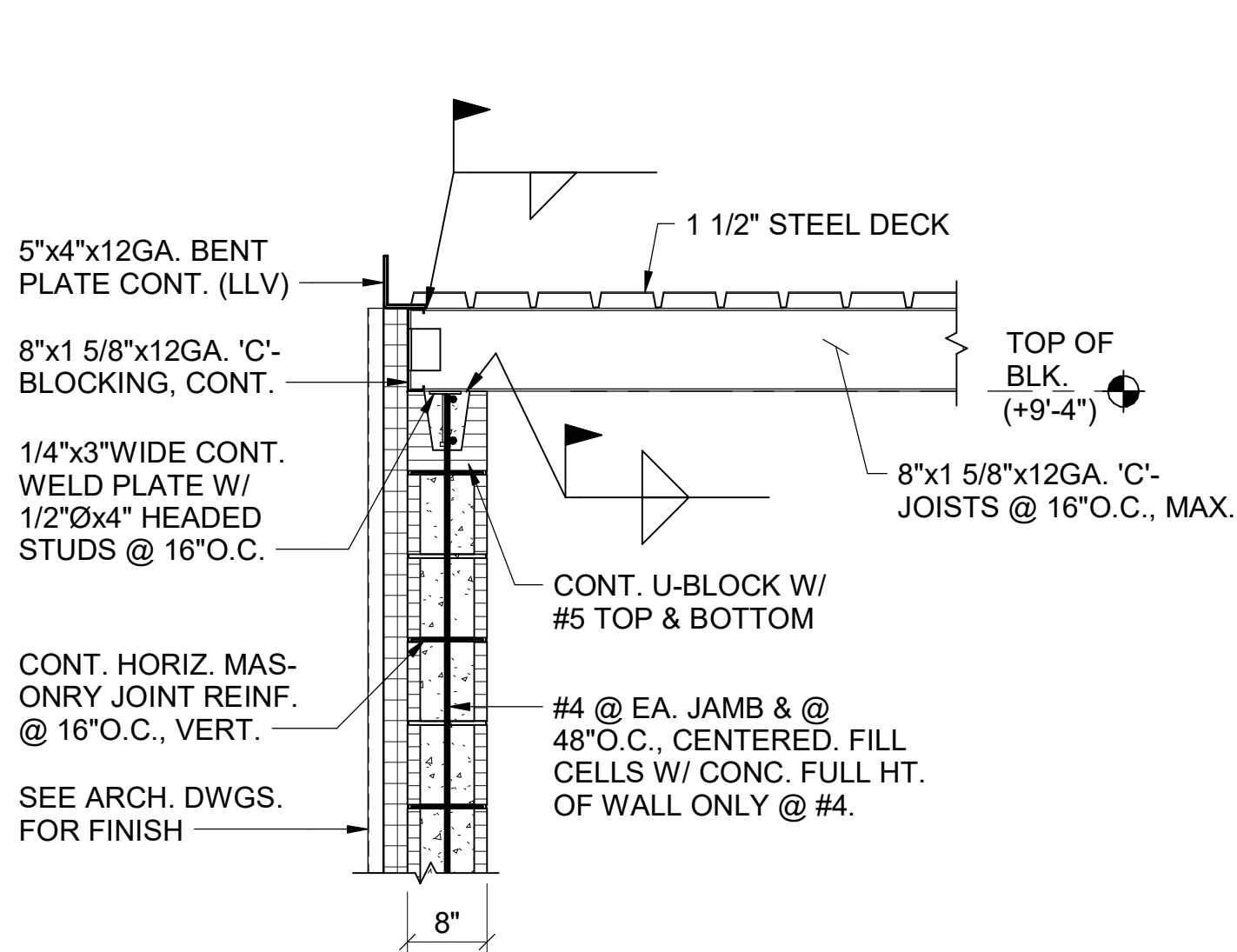


ALTERNATE SLAB CONSTRUCTION
JOINT DETAIL (SAWED JOINT)

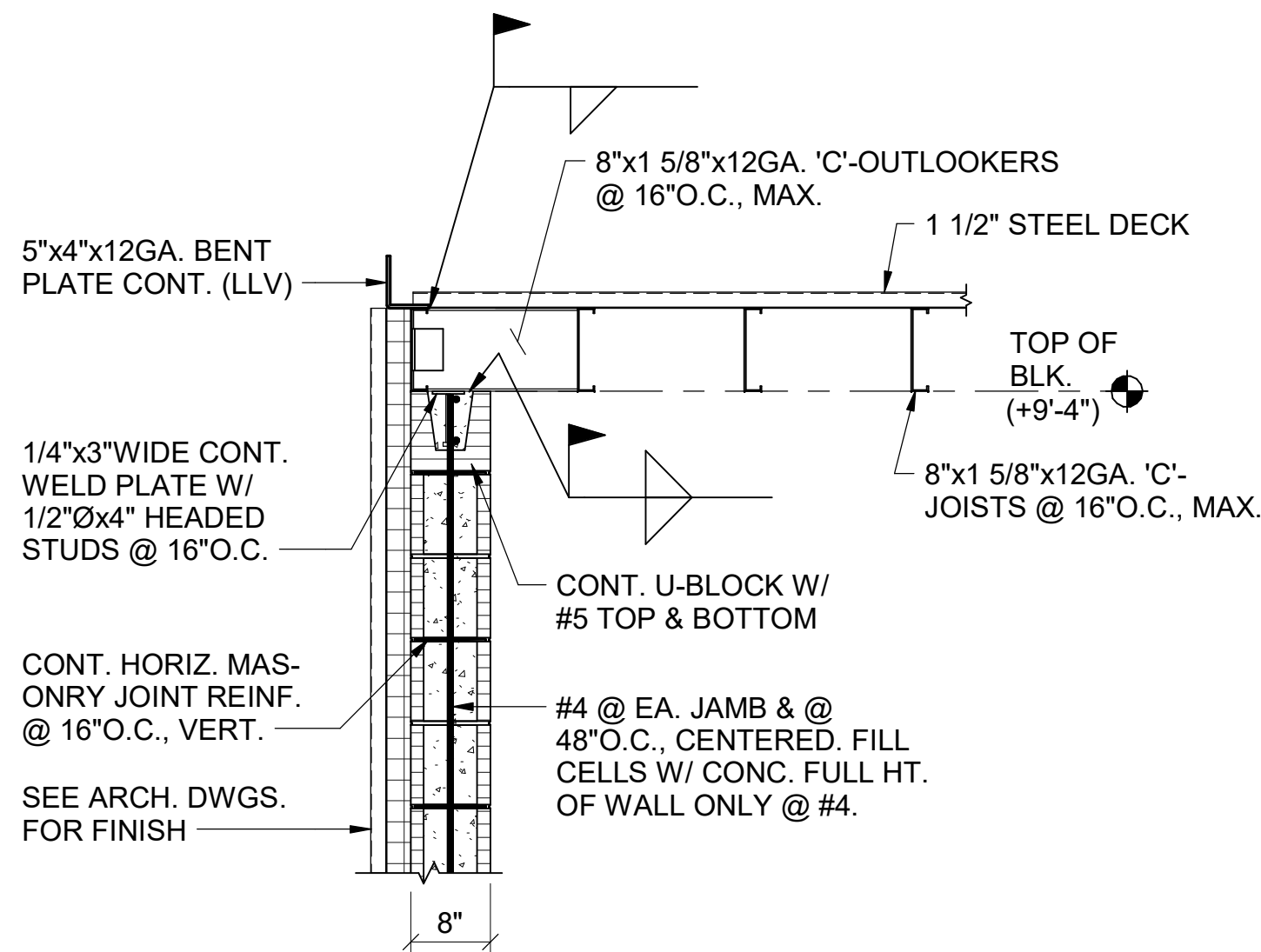


NOTE:
ALL SCREWS @ CONT. SUPPORTS SHALL BE #12 SELF-DRILLING
SELF-TAPPING SCREWS. AT BAR JOIST ROOFS, USE 5/8"Ø PUDDLE
WELDS (IN LIEU OF SCREWS) @ STEEL SUPPORTS.

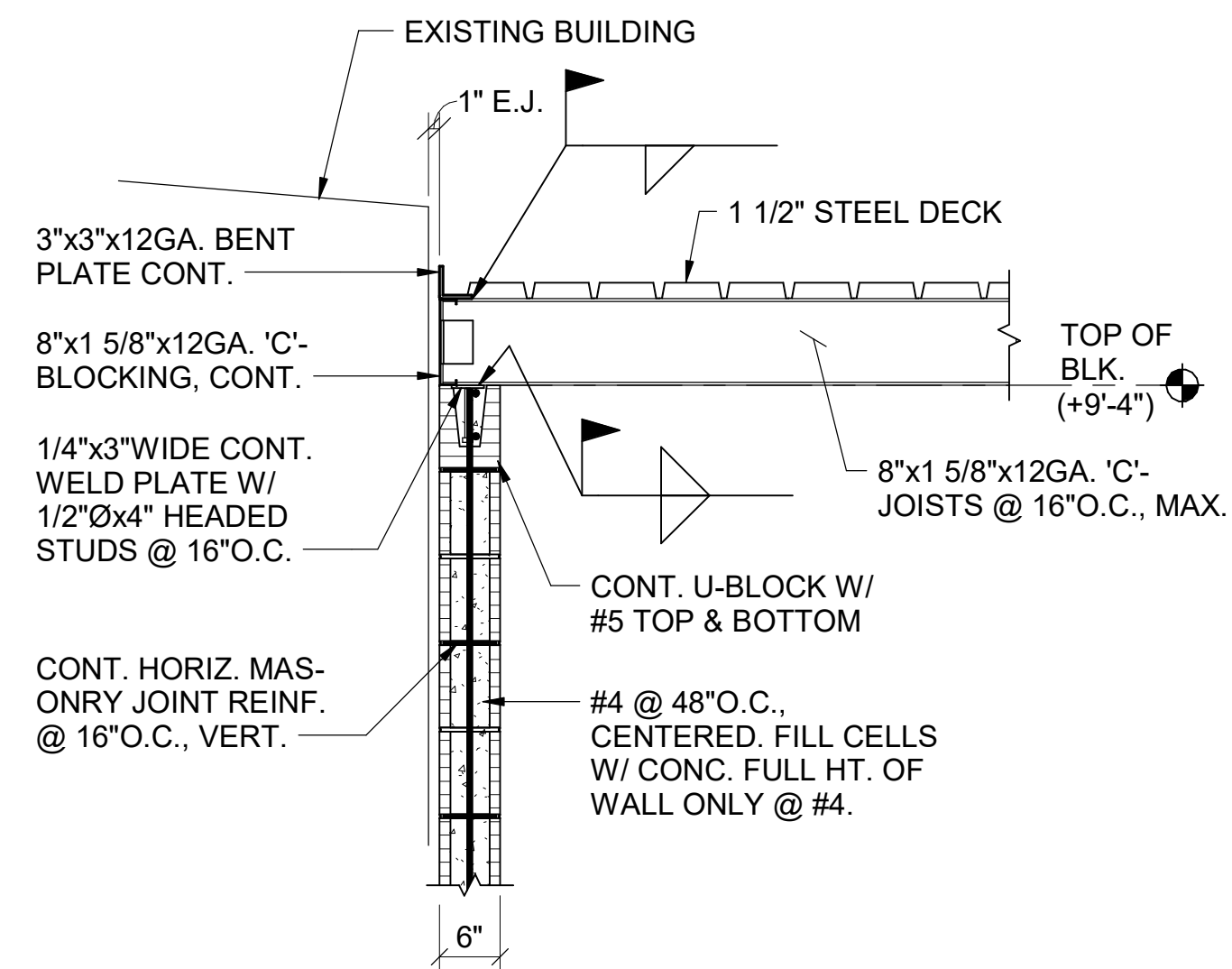
TYPICAL ROOF DECK FASTENING REQUIREMENTS
NO SCALE



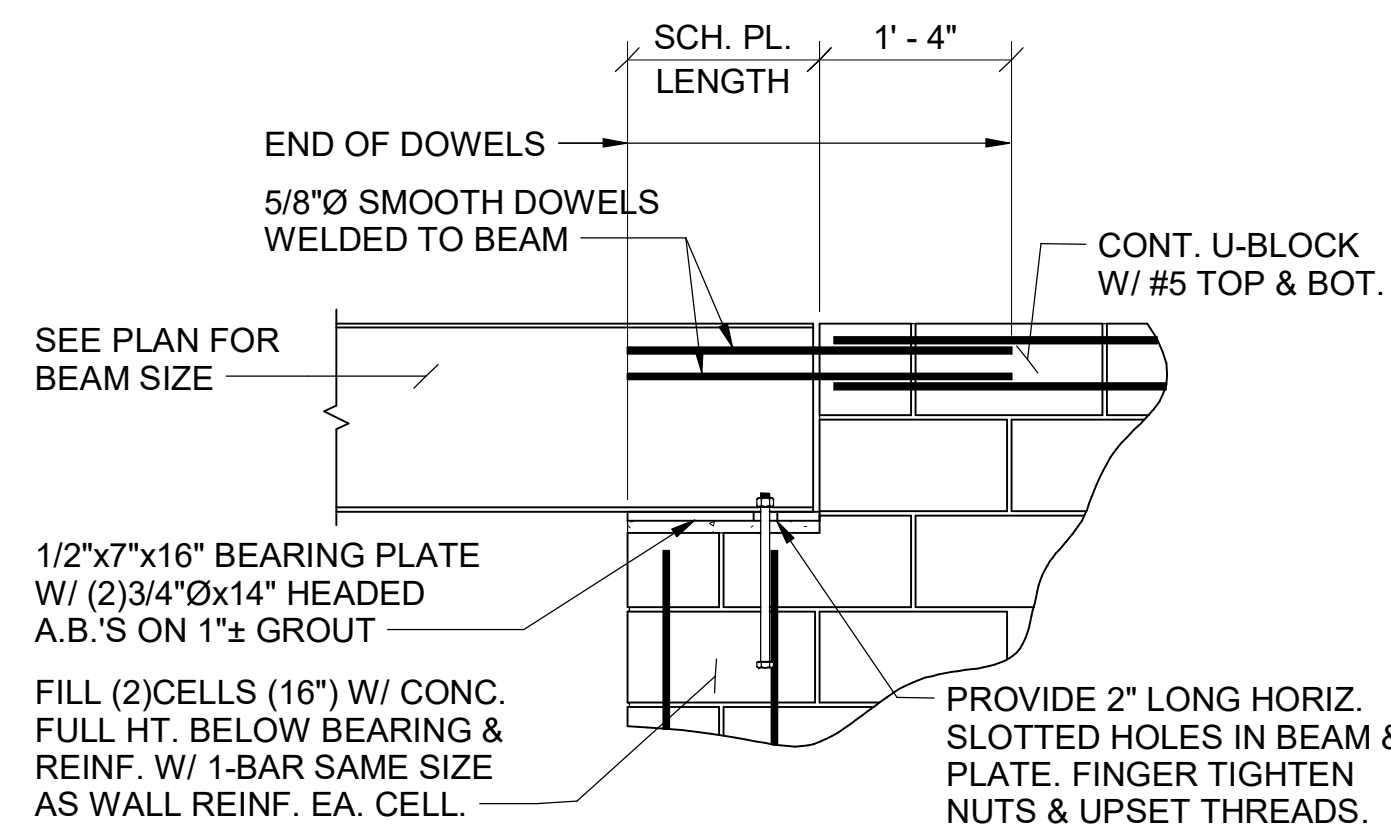
SECTION 1
S0.1 3/4" = 1'-0"



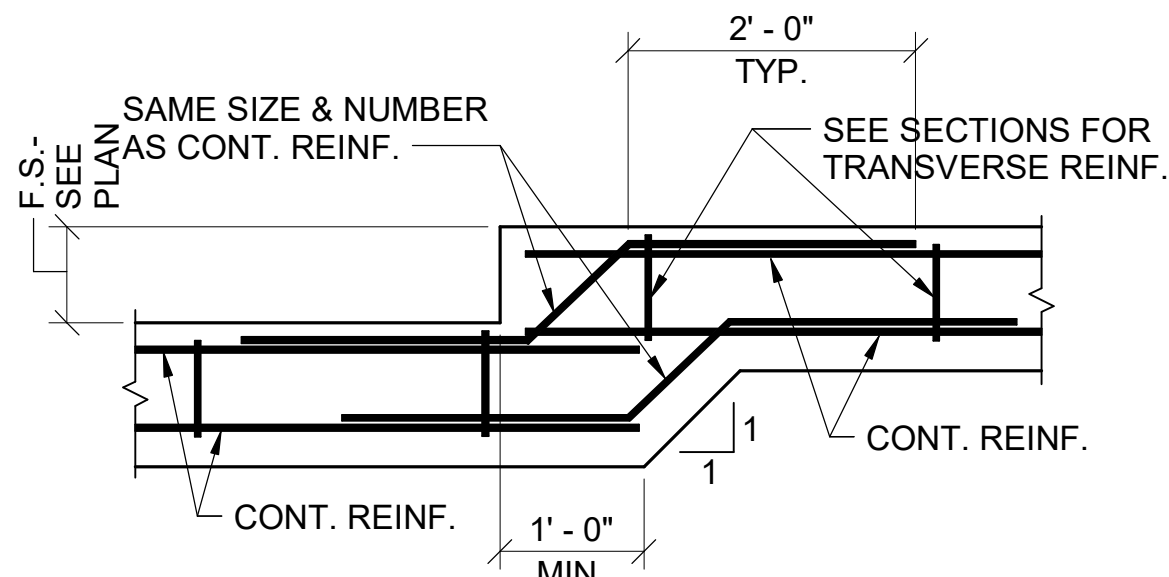
SECTION 2
S0.1 3/4" = 1'-0"



SECTION 3
S0.1 3/4" = 1'-0"



TYPICAL BEAM BEARING ON C.M.U. WALL DETAIL (PARALLEL)



TYPICAL FOOTING STEP DETAIL - (F.S.)

GENERAL NOTES

FOUNDATION:

- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
- ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
- FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING OF $P = 1500$ PSF. THE TESTING AGENCY SHALL VERIFY THAT THE SOILS ARE CAPABLE OF SUSTAINING 2000 PSF PRIOR TO CONCRETE PLACEMENT.
- ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFER OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE GOVERNMENT.
- ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
- DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
- PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
- IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
- DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
- BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
- BACK FILL BEHIND ALL RETAINING WALLS AND BASEMENT WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.

CONCRETE:

- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF $F_c = 3000$ PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINMENT AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS): FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
- LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.
- PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
- STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE GOVERNMENT'S REVIEW.
- DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.

MASONRY:

- PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
- WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
- CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".
- CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF $F_c = 3000$ PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME.
- ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
- UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM.
- PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
- PROVIDE 48 DIAMETER LAP SPICE IN VERTICAL MASONRY REINFORCING.
- PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
- ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE.
- VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED -- DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.
- ALL CMU DOWELS SHALL BE SAME SIZE AND SPACING AS THE VERTICAL REINFORCEMENT.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION EXCEPT STEEL JOISTS AND TUBE SECTIONS).
- STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, $F_y = 46.0$ KSI.
- HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS ($F_u = 65$ KSI).
- STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE GOVERNMENT'S REVIEW.
- THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
- BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED AS FULLY PRETENSIONED BEARING CONNECTIONS.

STRUCTURAL STEEL CONTINUED:

- CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE.
- FOR DBL-ANGLE CONNECTIONS, MIN ANGLE THICKNESS SHALL BE 5/16" FOR 3/4 INCH DIAMETER BOLTS AND 3/8" FOR 7/8 INCH DIAMETER BOLTS.
- UNLESS SHOWN OTHERWISE PROVIDE 1/2 X 7 1/2 X 7 1/2 BEARING PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.
- ANY MEMBER CALLED OUT TO BE BENT TO RADIUS SHALL BE FABRICATED OUT OF PLATE WITH EQUIVALENT SECTION PROPERTIES IF BENDING TO RADIUS IS IMPRACTICAL.

COLD-FORMED STEEL STUDS:

- PROVIDE COLD FORMED STEEL STUDS WHERE INDICATED ON THE PLAN. ALL SIZES AND GAGES SHOWN SHALL BE CONSIDERED MINIMUM.
- LIGHT STEEL GALVANIZED (G-60) METAL STUDS, OF SIZES SHOWN COMPLETE WITH ALL ACCESSORIES REQUIRED. 16 GA AND HEAVIER MEMBERS SHALL MEET ASTM A-1003/A1003M, GRADE D WITH 50 KSI YIELD.
- PROVIDE SHOP DRAWINGS PREPARED BY COLD FORMED METAL FRAMING MANUFACTURER. SUBMIT FOR APPROVAL SHOWING PLANS, SECTIONS ELEVATIONS, LAYOUTS, PROFILES, PRODUCT COMPONENTS, AND INDICATING SPACING OF MEMBERS, PROPOSED METHODS OF FRAMING LINTELS, DOORWAY FRAMING, ETC. SHOW CONNECTION DETAILS WITH SCREW TYPE AND LOCATIONS AND ALL OTHER FASTENER REQUIREMENTS. INCLUDE CATALOG DATA ON ALL PRODUCT MATERIAL.
- MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS INCLUDING ALL CONNECTIONS. DESIGNS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF ALABAMA.

BUILDING CANOPIES:

- THE COMPLETE DESIGN OF THE CANOPIES INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.

CODES:

- ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
- AMERICAN CONCRETE INSTITUTE (ACI)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - AMERICAN WELDING SOCIETY (AWS)
 - OSHA STEEL ERECTION STANDARD (OSHA)
 - INTERNATIONAL BUILDING CODE (IBC 2015) (ICC)

DESIGN LIVE LOADS:

- ROOF.....20 PSF.
- OFFICES.....
- RISK CATEGORY (PER IBC 2015/ASCE 7-10).....III
- WIND.....INTERNATIONAL BUILDING CODE (PER ASCE 7-10)
- ULTIMATE DESIGN WIND SPEED (Vult).....120 MPH
- NOMINAL DESIGN WIND SPEED (Vasd).....93 MPH
- WIND EXPOSURE.....C
- INTERNAL PRESSURE COEFFICIENTS.....+/-0.18
- COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:
- NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES.
- ROOF:TRIBUTARY AREA $A = 10$ SF
- ZONE 1: -49.7PSF/31.3PSF
- ZONE 2: -86.5PSF/31.3PSF
- ZONE 3: -128.0PSF/31.3PSF
- WALL:TRIBUTARY AREA $A = 10$ SF
- ZONE 4: -58.9PSF/54.3PSF
- ZONE 5: -72.7PSF/54.3PSF
- CORNER ZONE = 7.5 FT
- SEISMIC.....INTERNATIONAL BUILDING CODE (PER ASCE 7-10)
- SEISMIC IMPORTANCE FACTOR.....1.25
- MAPPED SPECTRAL ACCELERATION (SHORT-TERM)..... $S_s=0.256$
- MAPPED SPECTRAL ACCELERATION (1-SECOND)..... $S_1=0.105$
- SITE CLASS.....D
- SHORT-PERIOD SPECTRAL RESPONSE ACCEL..... $S_{ds}=0.281g$
- 1-SECOND SPECTRAL RESPONSE ACCEL..... $S_{d1}=0.167g$
- SEISMIC DESIGN CATEGORY.....C
- SEISMIC FORCE-RESISTING SYSTEM.....CMU SHEAR WALLS
- DESIGN BASE SHEAR (ULTIMATE).....3k
- SEISMIC RESPONSE COEFFICIENT..... $C_s=0.064$
- RESPONSE MODIFICATION FACTOR..... $R=2$
- ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)
- SNOW.....INTERNATIONAL BUILDING CODE
- GROUND SNOW LOAD..... $P_g=5$ PSF

SPECIAL INSPECTIONS

- ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

Lintel Schedule					
Mark or Location	Max. Span	Type	Size	Reinforcing	Remarks
8"C.M.U.	3'-4"	U-BLOCK	8x8	#5 TOP & BOTTOM	8" HIGH U-BLOCK

NOTES:

- BEAR 8" HIGH U-BLOCKS 8" EACH END.
- FILL CELLS W/ CONCRETE FULL HEIGHT @ U-BLOCK BEARING FOR ENTIRE LENGTH OF BEARING & REINFORCE EACH CELL W/ BAR SAME SIZE AS WALL REINFORCING. VERTICAL REINFORCING SHALL BE CONTINUOUS THRU LINTEL @ BEARING. FILL CELLS OF U-BLOCK LINTEL TO FULL HEIGHT IN ONE POUR.

Rev.	Description	Date

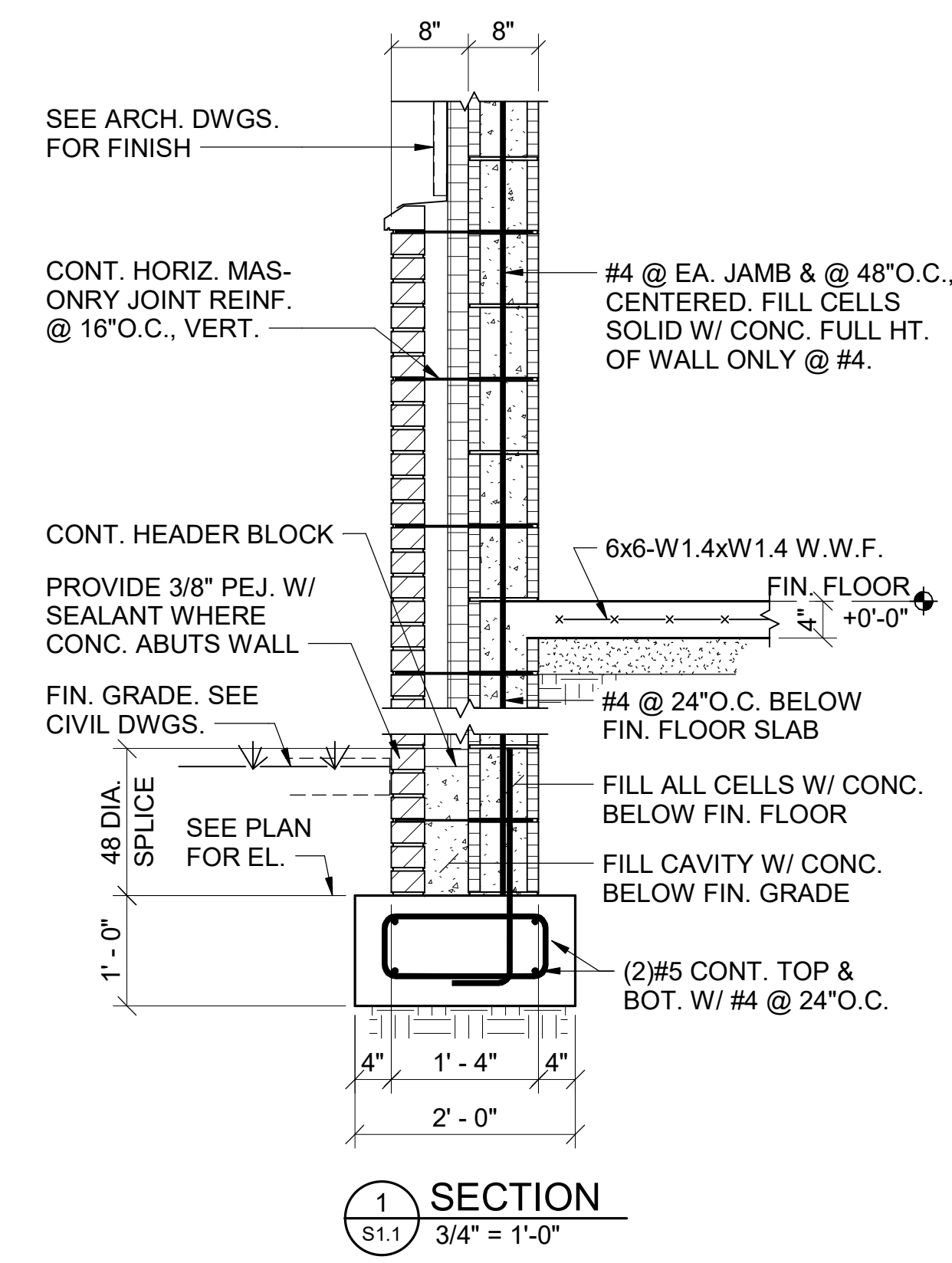
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Date	February 2023
Drawn By	R. Casey
Checked By	JWD

Project Title

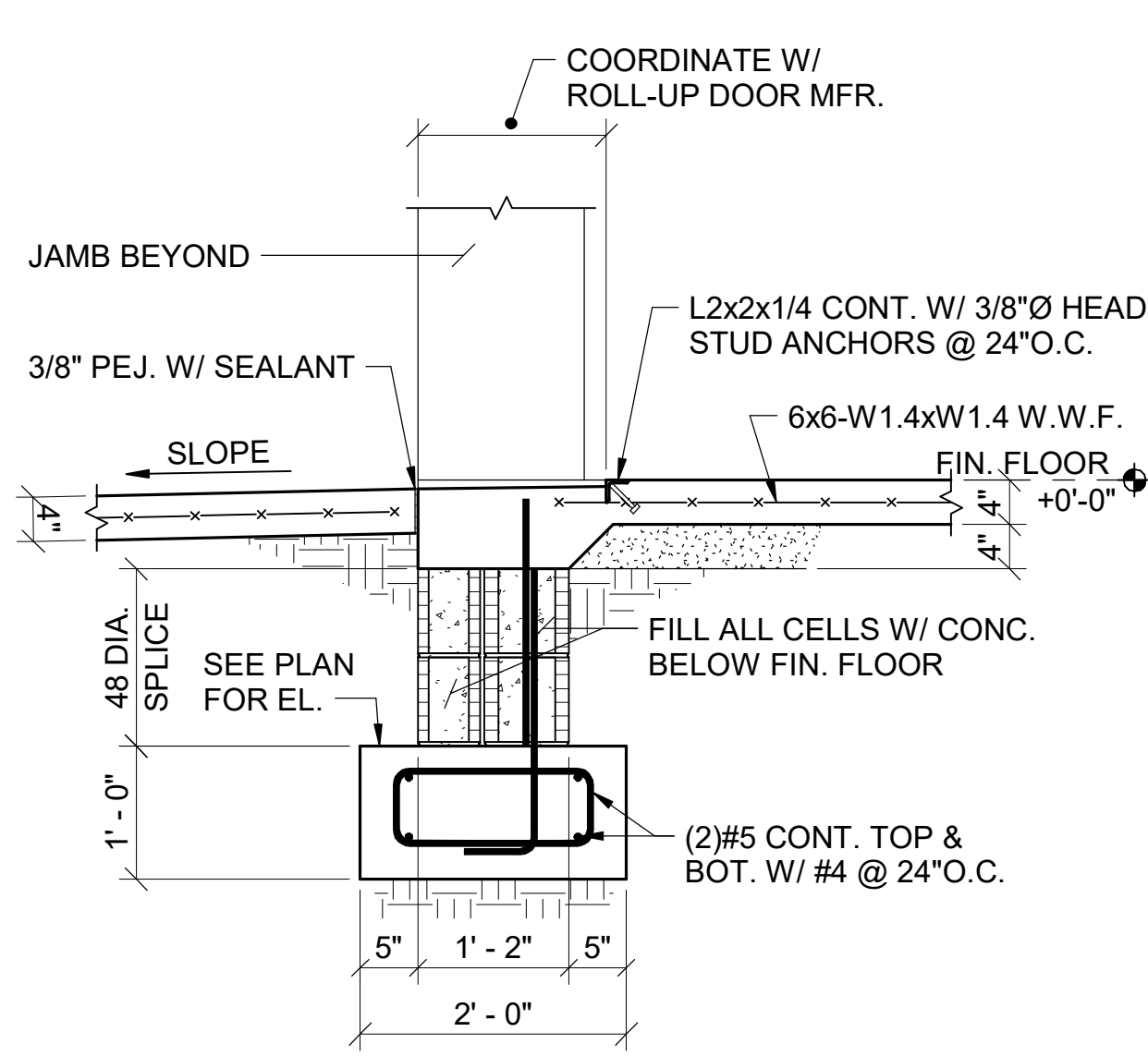
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Notes-Schedules
-Typical Details

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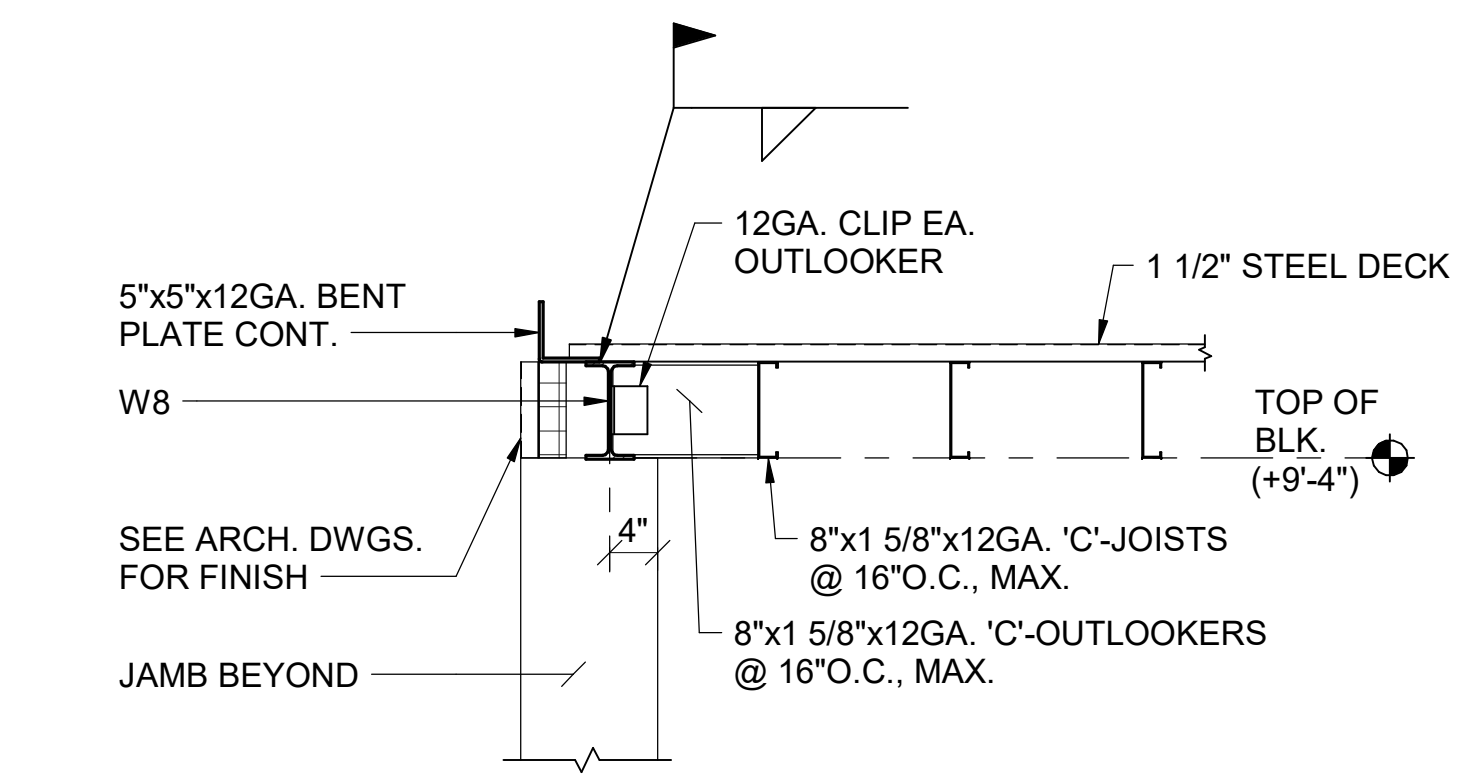
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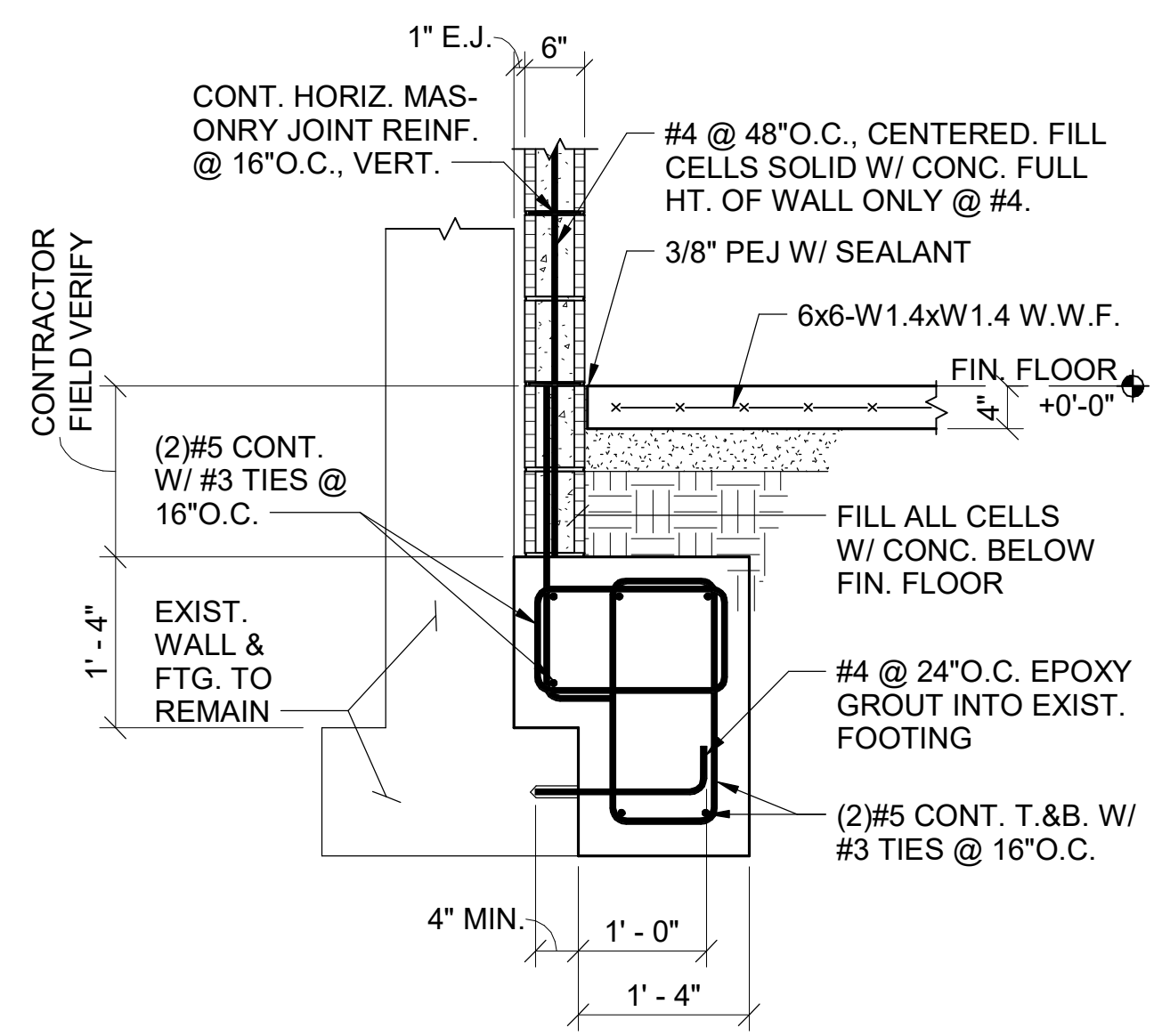
1 SECTION
3/4" = 1'-0"



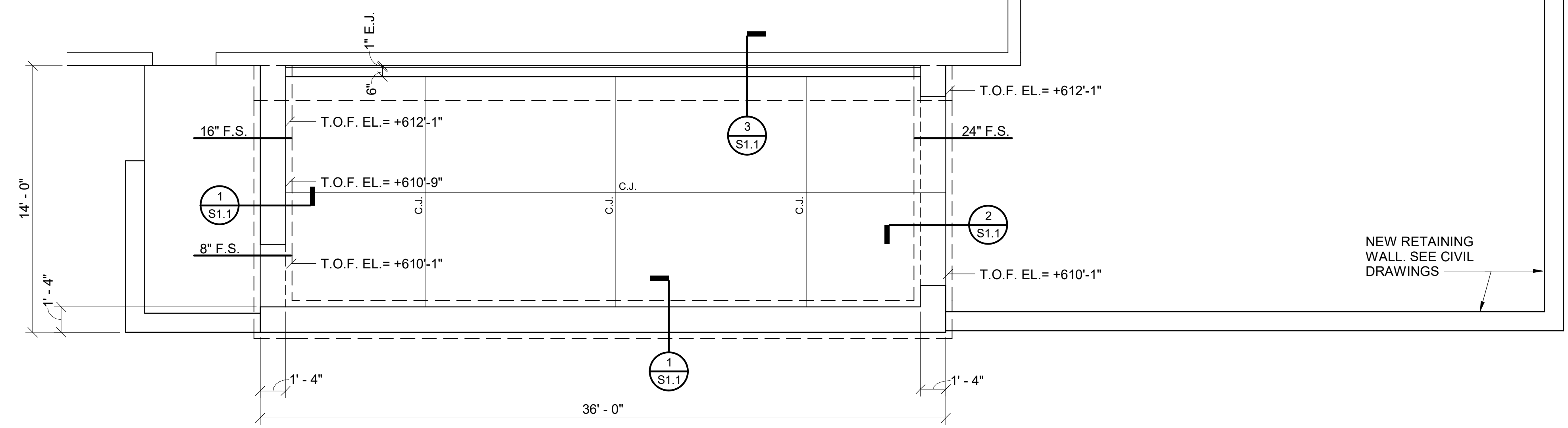
2 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

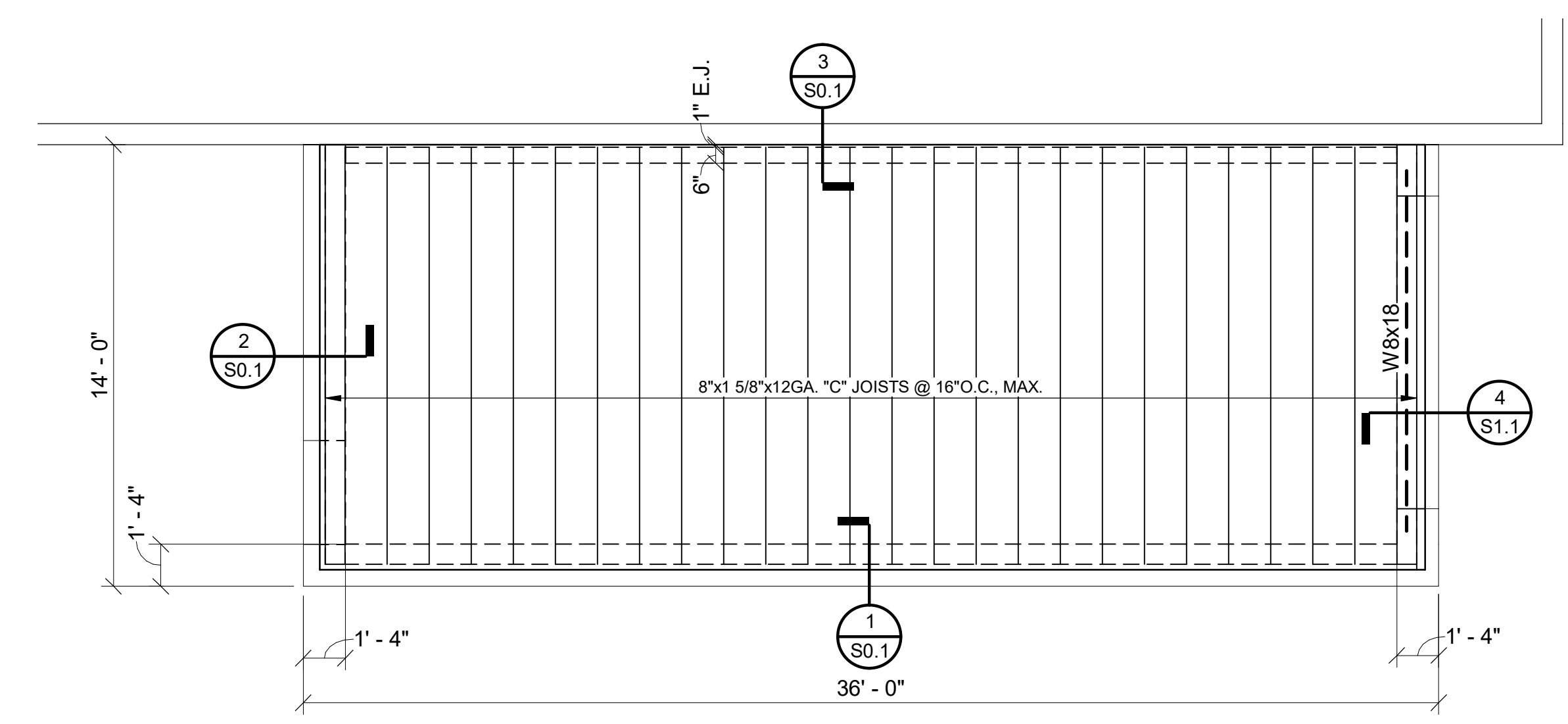


3 SECTION
3/4" = 1'-0"



FOUNDATION PLAN
1/4" = 1'-0"

FLOOR CONSTRUCTION
4" THICK CONCRETE SLAB W/ 6x6-W1.4x W1.4 W.W.F. OVER VAPOR BARRIER OVER 4" POROUS FILL. FINISH FLOOR EL.+615'-5" (+0'-0")



ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF CONSTRUCTION
1 1/2" DEEP, 22 GAGE, WIDE RIB STEEL DECK W/ THE FOLLOWING MINIMUM SECTION PROPERTIES PER FOOT OF WIDTH: S=0.19 IN.³ I+=0.16 IN.⁴ I-=0.18 IN.⁴

Rev.	Description	Date

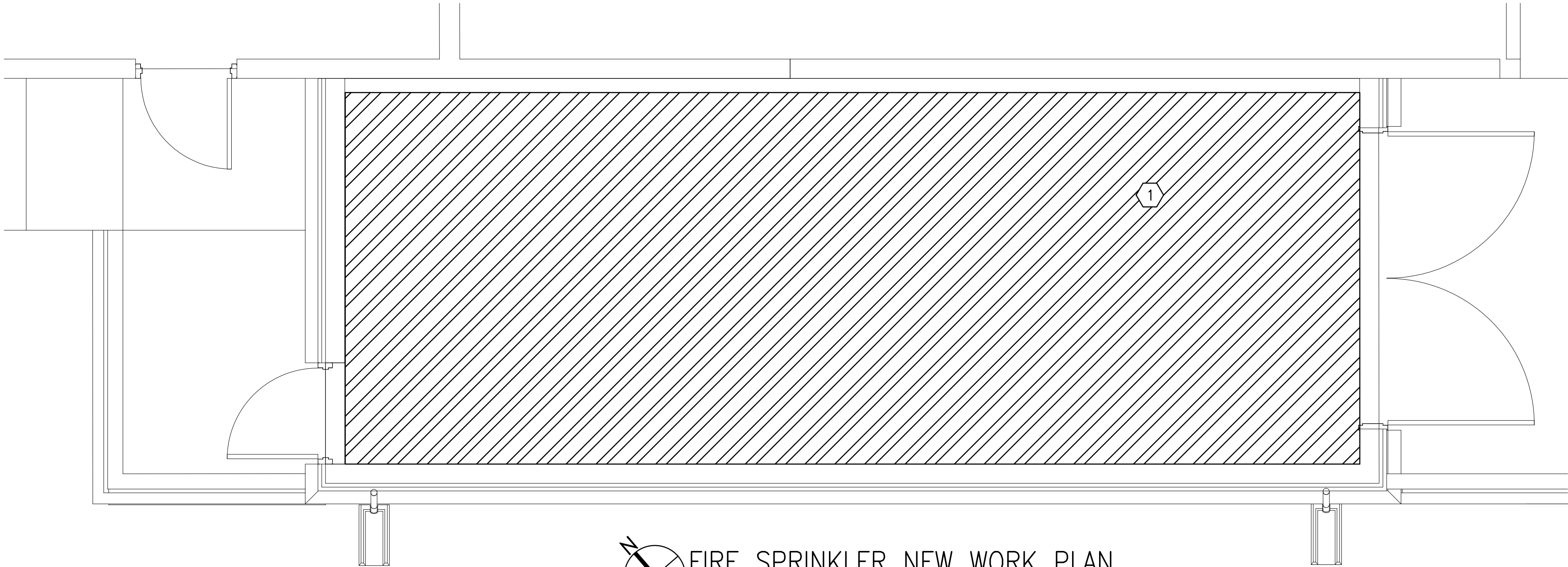
Job Number
21047 / BRKR 202911
Date
February 2023
Drawn By
R. Casey
Checked By
JWD

Project Title
GLOBAL ASNT STORAGE FACILITY
Birmingham, AL

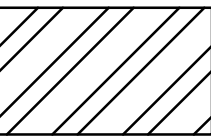
Sheet Title
FRAMING PLANS - SECTIONS & DETAILS

Sheet Number

S1.1



FIRE SPRINKLER NEW WORK PLAN
SCALE: 3/8" = 1'-0"



UFC-3-600-01 -- ORDINARY HAZARD
REMOTE AREA: 2500 SQ.FT.
MAXIMUM AREA PER SPRINKLER: 130 SQ.FT.
MINIMUM WATER FLOW DENSITY: 0.2 GPM/SQ.FT.
SPRINKLER K-FACTOR: 8.0

HOSE STREAM ALLOWANCE
INSIDE HOSE: 0 GPM
OUTSIDE HOSE: 250 GPM

HYDRAULIC DESIGN CRITERIA LEGEND

THE SPRINKLER CONTRACTOR SHALL HYDRAULICALLY DESIGN THE SYSTEM TO DISCHARGE THE MINIMUM DENSITY AS INDICATED BELOW. THE MINIMUM PIPE SIZE FOR BRANCH LINES IN GRIDDED SYSTEMS MUST BE 1 1/4-INCH. HYDRAULIC CALCULATIONS MUST BE IN ACCORDANCE WITH THE AREA/DENSITY METHOD OF NFPA 13.

FIRE SPRINKLER SCOPE OF WORK

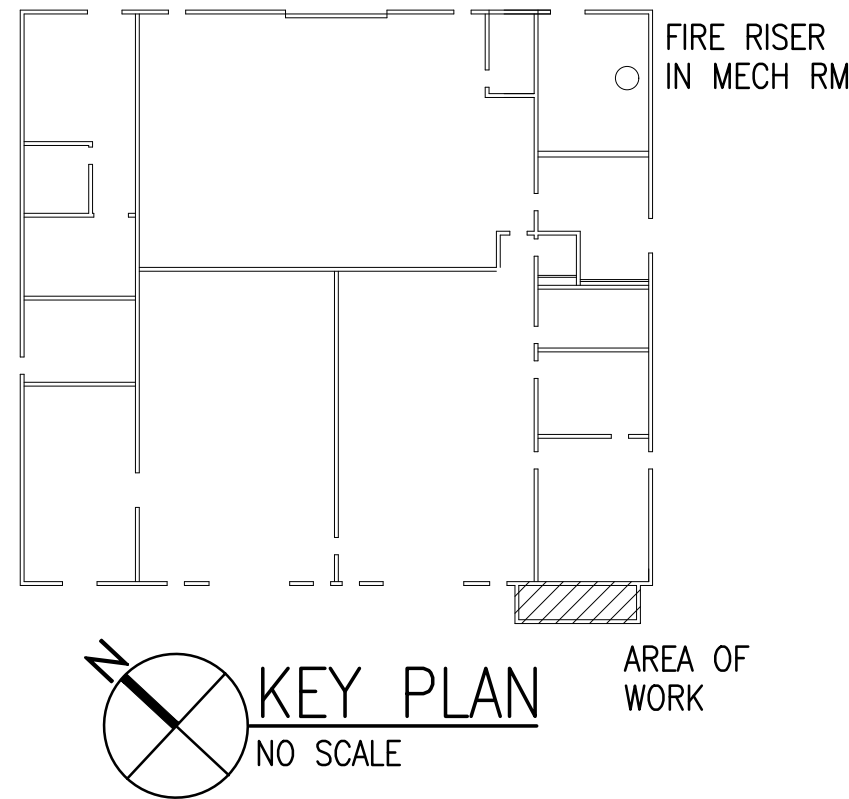
- A. THE CONTRACTOR SHALL MODIFY AND EXTEND THE EXISTING WET PIPE SPRINKLER SYSTEM IN THE BUILDING AS REQUIRED TO PROVIDE COVERAGE FOR THE NEW STORAGE ROOM. ALL FIRE SPRINKLER WORK SHALL BE IN ACCORDANCE WITH UFC 3-600-01, NFPA 13, THE SPECIFICATIONS, ANETL 15-01-03 FIRE PROTECTION DESIGN GUIDANCE, AND THE AHJ.
- B. THE CONTRACTOR SHALL RETAIN A REGISTERED FIRE PROTECTION ENGINEER (AS DEFINED BY UFC 3-600-01) TO BE THE QUALIFIED FIRE PROTECTION ENGINEER (QFPE) FOR THE CONSTRUCTION PROJECT. THE QFPE MUST REVIEW AND SIGN AND SEAL DRAWINGS, CUTSHEETS, AND CALCULATIONS PRIOR TO SUBMITTING TO THE GOVERNMENT FOR REVIEW. THE QFPE SHALL PROVIDE ALL INSPECTIONS AND INTERFACE WITH THE AHJ AS REQUIRED FOR A COMPLETE INSTALLATION.
- C. CONTRACTOR SHALL BE REQUIRED TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE GOVERNMENT PRIOR TO MODIFICATION OF FIRE SPRINKLER SYSTEM. THE FIRE SPRINKLER SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A QUALIFIED FIRE PROTECTION ENGINEER (QFPE).
- D. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS OF THE SPRINKLER SYSTEM AND NOTE ANY EXISTING SYSTEM DEFICIENCIES. THE CONTRACTOR SHALL PROVIDE A REPORT TO CONTRACTING OFFICER REPRESENTATIVE NOTING ANY EXISTING SYSTEM DEFICIENCIES. ANY EXISTING DEFICIENCIES SHALL BE THE RESPONSIBILITY OF THE GOVERNMENT TO REPAIR.
- E. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF EXISTING FEED MAINS AND BRANCHLINES TO BE USED IN HYDRAULIC CALCULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING NEW TIE IN LOCATION FOR THE STORAGE ROOM SPRINKLERS. IF NO CONNECTION POINT IS AVAILABLE FOR TIE IN TO THE EXISTING FEED MAIN NEAR THE AREA OF WORK, THE CONTRACTOR SHALL PROVIDE A NEW FEED FROM THE RISER AND ROUTE IT TO THE STORAGE ROOM AREA TO SUPPLY THE NEW SPRINKLERS.
- F. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE GOVERNMENT TO FOLLOW THE REQUIREMENTS FOR SYSTEM IMPAIRMENTS AS REQUIRED BY UFC 3-600-01, UFC 3-601-02 AND NFPA 25. CONTRACTOR SHALL PERFORM WORK AS REQUIRED TO MINIMIZE THE TIME THE SPRINKLER SYSTEM IS IMPAIRED.
- G. AFTER THE NEW WORK IS COMPLETED, THE FIRE SPRINKLER CONTRACTOR SHALL ISOLATE THE NEW PORTION OF THE SYSTEM AND SHALL HYDROSTATICALLY TEST AT 200PSI.

SHEET NOTES

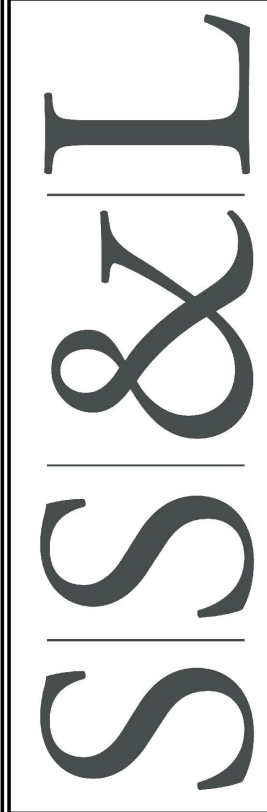
- 1 CONTRACTOR SHALL MODIFY AND EXTEND EXISTING AUTOMATIC WET PIPE SPRINKLER SYSTEM TO PROVIDE COVERAGE IN AREA INDICATED. ALL FIRE PROTECTION WORK SHALL BE IN ACCORDANCE WITH NFPA 13, UFC 3-600-1, THE SPECIFICATIONS, AND THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES

- PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH VALVES IN ACCORDANCE WITH NFPA 13.
- ALL NEW FIRE SPRINKLER PIPING SHALL BE SCHEDULE 40, BLACK STEEL. SCHEDULE 10 PIPING SHALL NOT BE USED. ALL SPRINKLER PIPING 2.5" AND LARGER SHALL BE WELDED, FLANGED, OR GROOVED CONNECTIONS. ALL PIPING SMALLER THAN 2.5" SHALL BE THREADED.
- QUICK RESPONSE SPRINKLERS SHALL BE USED THROUGHOUT
- AUXILIARY DRAIN VALVES SHALL BE READILY ACCESSIBLE WITHOUT THE USE OF A LADDER AND SHALL NOT BE INSTALLED ANY HIGHER THAN 72" FROM THE FLOOR. AUXILIARY DRAIN VALVES SHALL DISCHARGE ONTO A SPLASH BLOCK ON THE EXTERIOR OF THE BUILDING.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO KEEP THE PREMISES DRY AT ALL TIMES AND TO PREVENT WATER DAMAGE. CONTRACTOR SHALL REPAIR WATER DAMAGE RESULTING FROM THE WORK, WHETHER INTENTIONAL OR NOT, AT NO COST TO, AND TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPE HANGERS AND SUPPORTS AS REQUIRED BY NFPA 13.



PETERSON ENGINEERING INC.
(PROF. ENG. #: 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32502
(850) 434-0513
PEI 22043



Rev.	Description	Date

Job Number	21047 / BRKR 202911
Date	February 2023
Drawn By	EK
Checked By	EK

Project Title

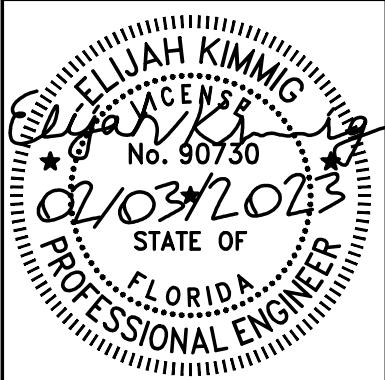
GLOBAL ASNT
STORAGE FACILITY
Birmingham, AL

Sheet Title

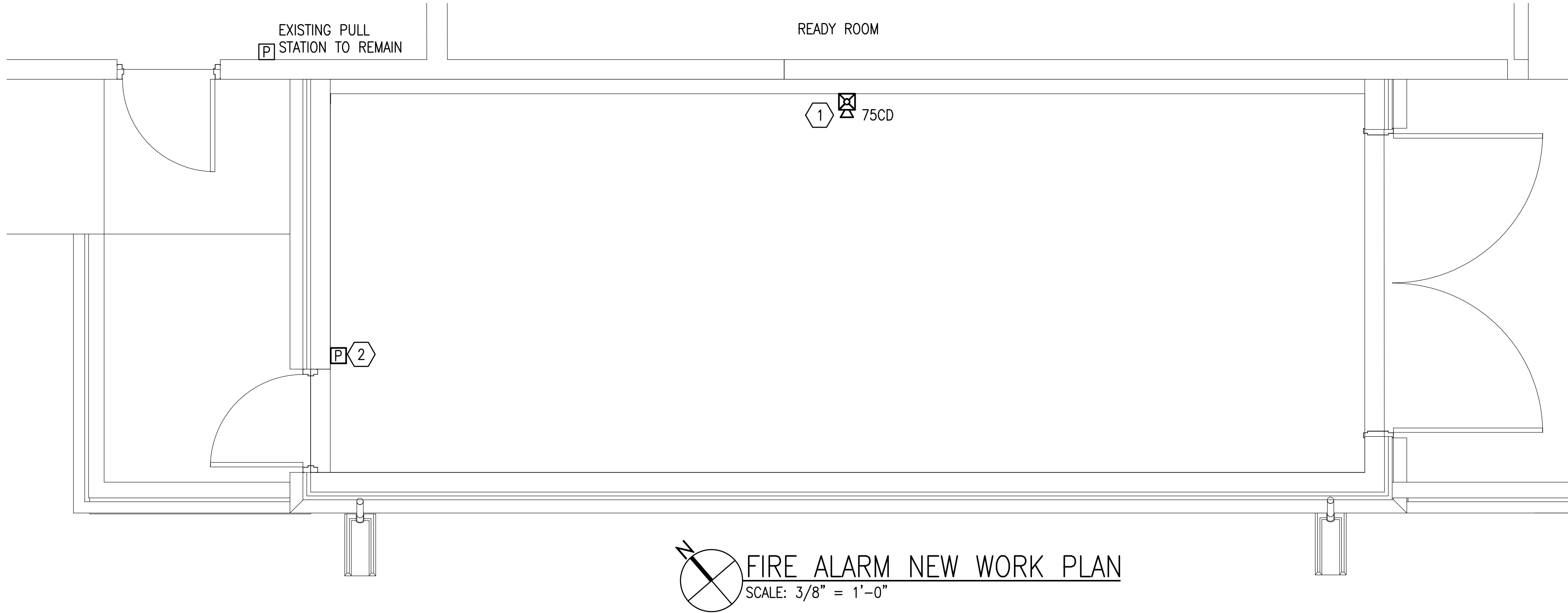
FIRE SPRINKLER
NEW WORK PLAN

Sheet Number

FX1.1



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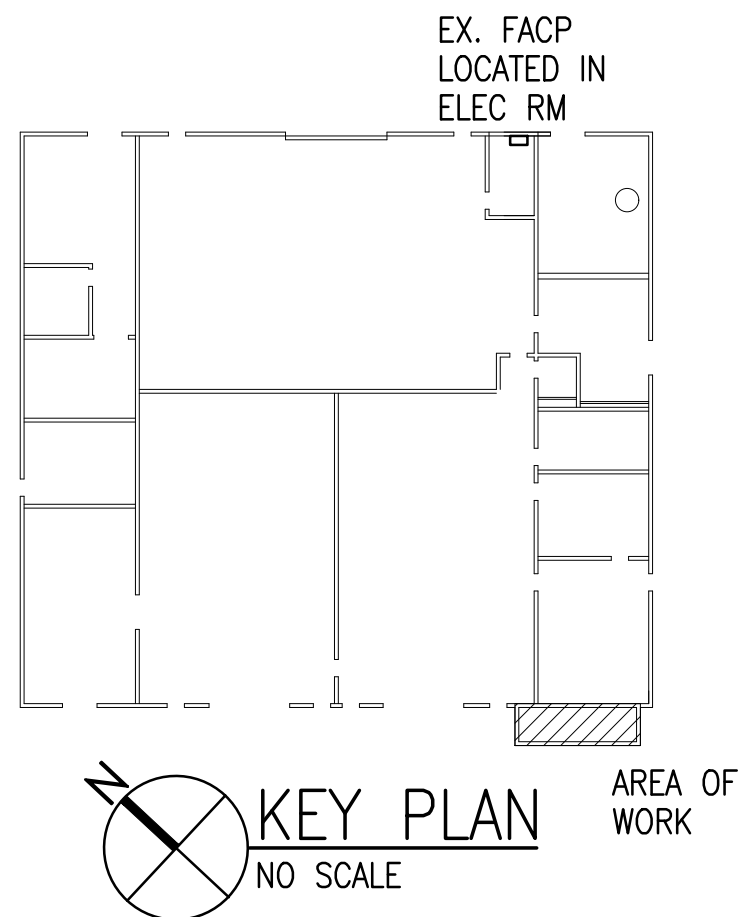


FIRE ALARM SCOPE OF WORK

- A. THE CONTRACTOR SHALL MODIFY AND EXTEND THE EXISTING FIRE ALARM SYSTEM IN THE BUILDING AS REQUIRED TO PROVIDE COVERAGE FOR THE NEW STORAGE ROOM. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH NFPA 72, NFPA 101, UFC 3-600-1, ANGETL 15-01-03, AND THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- B. THE CONTRACTOR SHALL RETAIN A REGISTERED ENGINEER (AS DEFINED BY UFC 3-600-01) TO BE THE QUALIFIED FIRE PROTECTION ENGINEER (QFPE) FOR THE CONSTRUCTION PROJECT. THE CONTRACTOR'S QFPE SHALL BE RESPONSIBLE FOR PERFORMING THE SERVICES OUTLINED IN SPECIFICATION 28 31 76.
- C. CONTRACTOR SHALL BE REQUIRED TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY THE GOVERNMENT PRIOR TO MODIFICATION OF THE EXISTING FIRE ALARM SYSTEM. THE FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S QUALIFIED FIRE PROTECTION ENGINEER (QFPE).
- D. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS OF THE FIRE ALARM SYSTEM AND NOTE ANY EXISTING SYSTEM DEFICIENCIES. THE CONTRACTOR SHALL PROVIDE A REPORT TO CONTRACTING OFFICER REPRESENTATIVE NOTING ANY EXISTING SYSTEM DEFICIENCIES. ANY EXISTING DEFICIENCIES SHALL BE THE RESPONSIBILITY OF THE GOVERNMENT TO REPAIR.
- E. THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE GOVERNMENT TO FOLLOW THE REQUIREMENTS FOR SYSTEM IMPAIRMENTS AS REQUIRED BY NFPA 72. CONTRACTOR SHALL PERFORM WORK AS REQUIRED TO MINIMIZE THE TIME THE FIRE ALARM SYSTEM IS IMPAIRED.
- F. AFTER THE FIRE ALARM SYSTEM MODIFICATION IS COMPLETE THE CONTRACTOR SHALL SHALL PERFORM RE-ACCEPTANCE TESTING AS OUTLINED IN NFPA 72.

SHEET NOTES

- 1 HORN/STROBE. WALL MOUNTED 80" A.F.F. TO BOTTOM OF DEVICE. CONNECT NEW NOTIFICATION DEVICES TO EXISTING NAC SERVING THIS AREA OF THE BUILDING.
- 2 MANUAL PULL STATION. OPERABLE LEVER SHALL BE BETWEEN 42" AND 48" ABOVE FINISHED FLOOR. CONNECT TO EXISTING IDC SERVING THE AREA.



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Rev.	Description	Date

Job Number

21047 / BRKR 202911

Date

February 2023

Drawn By

EK

Checked By

EK

Project Title

GLOBAL ASNT STORAGE FACILITY
Birmingham, AL

Sheet Title

FIRE ALARM
NEW WORK PLAN

Sheet Number

FA1.1

ELIJAH KIMMIG
No. 90730
02/03/2023
STATE OF FLORIDA
PROFESSIONAL ENGINEER



1 PROVIDE AND INSTALL SPLIT SYSTEM HEAT PUMP AS SHOWN IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. MOUNT CONDENSING UNIT ON A NEW 6" HIGH CONCRETE PAD. EXTEND CONCRETE PAD 6" BEYOND FOOTPRINT OF UNIT IN ALL DIRECTIONS. COORDINATE WITH THE EXISTING DOOR SWING AND ENSURE DOOR DOES NOT HIT CONDENSING UNIT. MOUNT AHU ON WALL 7'-0" ABOVE FINISH FLOOR.

2 PROVIDE AND PLACE DRY WELL AS SHOWN, SEE DETAIL.

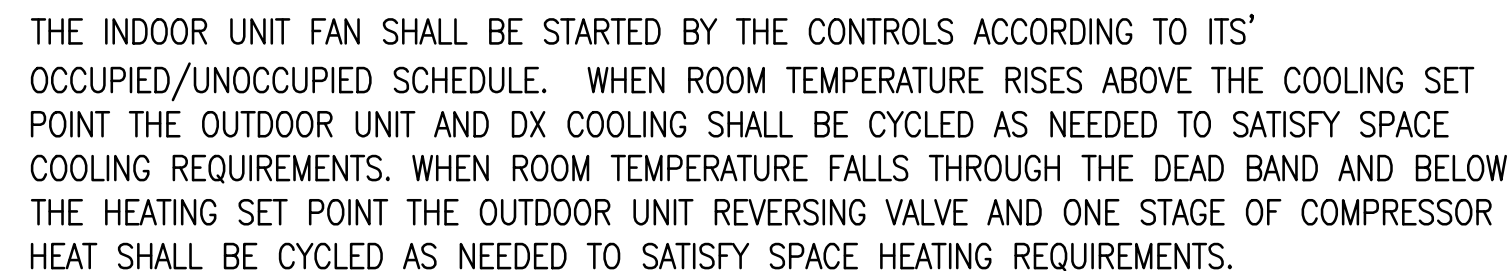


REMARKS:

1. CAPACITIES AND RATINGS ARE AT ARI CONDITIONS.
2. ADJUST LOCATION OF UNITS AS REQUIRED FOR SERVICE AS RECOMMENDED BY MANUFACTURER.
3. WIRED FACTORY THERMOSTAT CONTROLLER.
4. POWER COMES FROM OUTDOOR UNIT

REMARKS:

1. UNITS SHALL BE MOUNTED ON 6" THICK CONCRETE EQUIPMENT PAD USING STAINLESS STEEL HARDWARE AND FASTENERS.
2. CAPACITIES AND RATINGS ARE AT ARI CONDITIONS.
3. INDOOR UNIT POWERED FROM OUTDOOR UNIT
4. UNIT MUST BE ENERGY STAR COMPLIANT.



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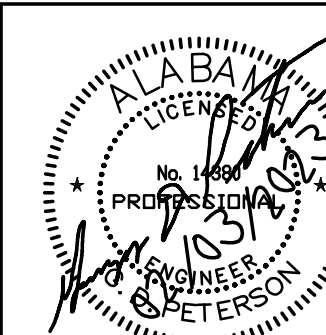
Job Number	21047 / BRKR 202911
Date	February 2023
Drawn By	S. JOHNSON
Checked By	G. PETERSON

GLOBAL ASNT
STORAGE FACILITY
Birmingham, AL

Sheet Title
MECHANICAL NEW
WORK PLAN,
SCHEDULES AND
CONTROLS

Sheet Number

M1.1



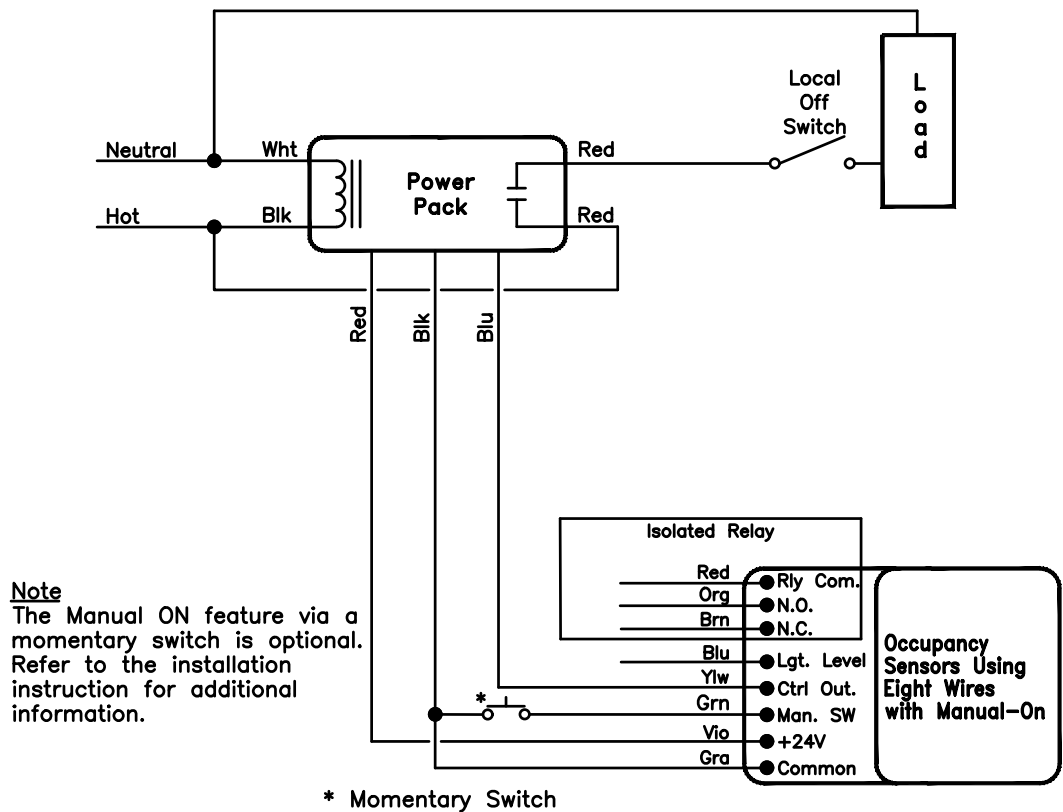
ELECTRICAL SYMBOLS

DEMOLITION NOTES

GENERAL NOTES

	CEILING OUTLET – SURFACE LED FIXTURE.
	WALL OUTLET – LED BRACKET TYPE.
	WALL OUTLET – EXIT SIGN.
	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, HUBBELL #5362 – GREY. ("WP" DENOTES EXTRA DUTY METAL IN–USE WEATHERPROOF COVER).
	WALL OUTLET – GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF–5362–GY – GREY WITH #S–26 PLATE. ("WP" DENOTES EXTRA DUTY METAL IN–USE WEATHERPROOF COVER).
	FLOOR OUTLET – CONDUIT STUB UP.
	CEILING OUTLET – JUNCTION BOX.
	WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
	SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY.("N" DENOTES NARROW)
	CEILING/WALL SENSOR – DUAL TECHNOLOGY CEILING SENSOR. SENSOR SWITCH CM PDT SERIES WTH POWER PACK OR EQUAL.
	POWER PACK – POWER PACK MOUNTED ABOVE CEILING FOR 24VDC SENSORS. WATT STOPPER OR EQUAL.
	LIGHTING PANEL – SEE SPECIFICATIONS AND SCHEDULE.
	POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE.
	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
	BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
	HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) – 3/4" CONDUIT. 3 # 12 & 1 # 12(G) – 3/4" CONDUIT. 4 # 12 & 1 # 12(G) – 3/4" CONDUIT.
	EMPTY CONDUIT – (1)–1".
	BRANCH CIRCUIT EXPOSED.
	LOW VOLTAGE WIRING.
	CONDUIT RUN DOWN WALLS, CONCEALED
	CONDUIT RUN UP WALLS, CONCEALED
	MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
	EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER.
	MAGNETIC MOTOR STARTER.
	NON–FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).
	FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).
	TELEPHONE BACKBOARD EXISTING TO REMAIN.
	THERMOSTAT – WALL OUTLET 48" AFF OR AS DIRECTED BY MECHANICAL DRAWINGS. RUN EMPTY 3/4" CONDUIT TO UNIT.
	EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS OTHERWISE NOTED.
	EXISTING ELECTRICAL EQUIPMENT TO REPLACED, UNLESS OTHERWISE NOTED.
	ABOVE FINISHED FLOOR.
	ABOVE FINISHED GRADE.
	BELOW FINISHED CEILING.
	VERIFY LOCATION.
	NATIONAL ELECTRICAL CODE.
	INDICATES UNSWITCHED NIGHTLIGHT.
	DATA OUTLET – 3/4" CONDUIT WITH PULL WIRE TO ABOVE ACCESSIBLE CEILING IN ADJACENT EXISTING BUILDING.

- DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- REMOVE ELECTRICAL EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY.
- REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
- DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
- DISCONNECT AND REMOVE EXISTING LUMINAIRES WHERE NEW FIXTURES ARE SHOWN TO BE INSTALLED. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
- WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.



OCCUPANCY SENSOR WIRING DETAIL

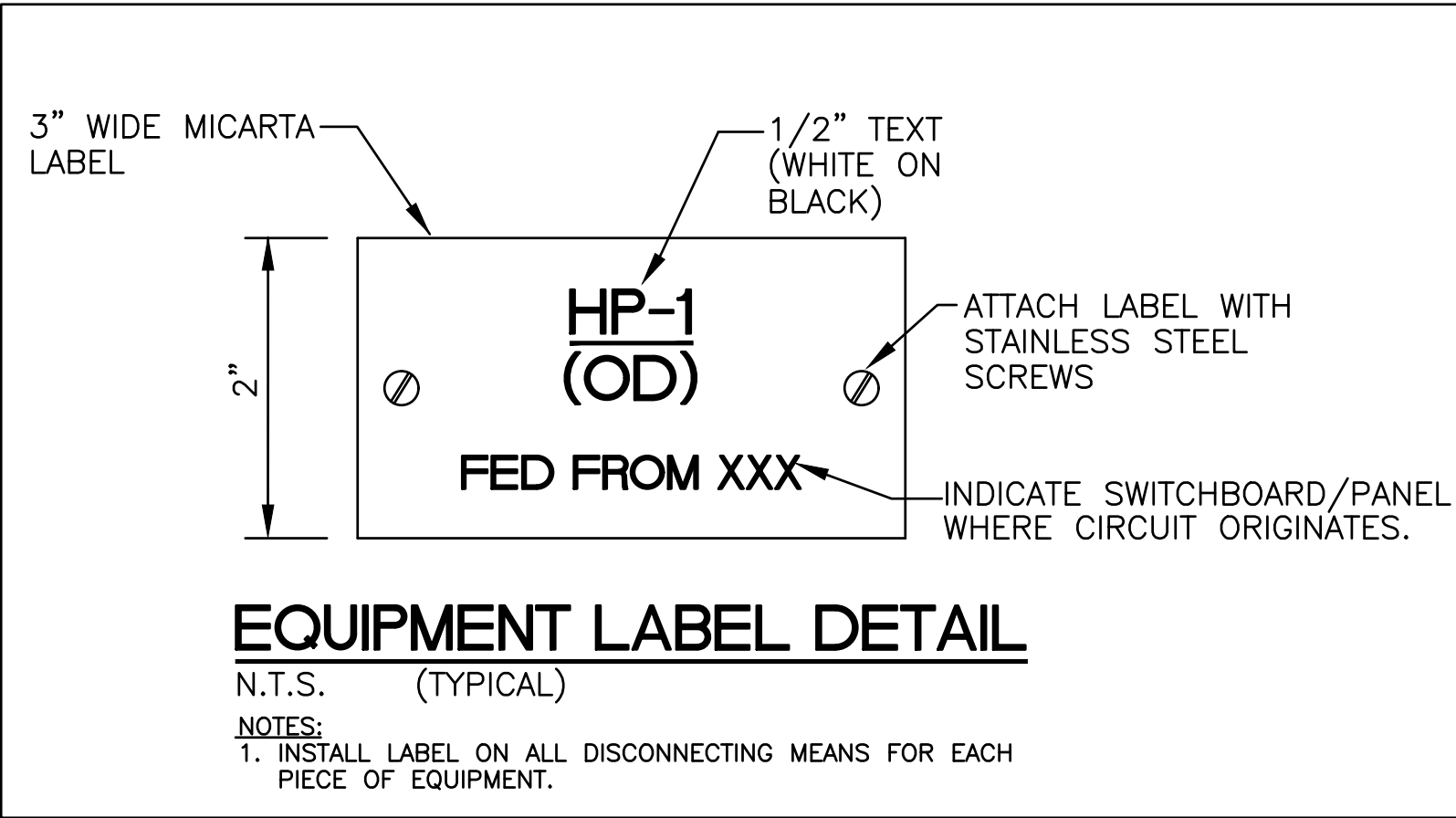
N.T.S.

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNIFIED FACILITIES CRITERIA AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
- THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
- CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
- SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE GOVERNMENT.
- THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
- MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
WALL SWITCHES.....4'–0" (TO CENTER OF BOX)
RECEPTACLES.....1'–6" (TO CENTER OF BOX)
TELEPHONE OUTLET.....1'–6" (TO CENTER OF BOX)
DATA OUTLET.....1'–6" (TO CENTER OF BOX)
CATV OUTLET.....1'–6" (TO CENTER OF BOX)
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACKSPLASHES ON CASEWORK SHOP DRAWINGS AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
- ALL OUTLET BOXES MOUNTED BACK–TO–BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
- VERIFY ALL DOOR SWINGS WITH THE GOVERNMENT BEFORE ROUGHING IN LIGHT SWITCHES.
- CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH–IN.
- BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
- COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER N.E.C..
- CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC–FLASH WARNING LABELS PER NEC 110.16.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT OPERATION AND MAINTENANCE OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE.
- VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE GOVERNMENT PRIOR TO ROUGH–IN.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF ELECTRICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING AND ORDERING EQUIPMENT.
- WHERE NEW CIRCUITS ARE ADDED TO EXISTING PANELS, CONTRACTOR SHALL UPDATE THE EXISTING PANEL DIRECTORY WITH A NEW TYPED PANEL DIRECTORY.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
D12	LITHONIA	ZL1D-L48-7000LM-FST-277-50K-80CRI-VH	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 1
D13	LITHONIA	ZL1D-L48-7000LM-FST-277-50K-80CRI-E7W-VH	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 1
L3	LITHONIA	WST LED-P2-50K-VF-277-PE-SF-DOBXD-E20WH	FURNISHED WITH FIXTURE			+9' A.F.F.(VER.)	SURFACE		SEE NOTES 1 & 2
X	LITHONIA	LES-R-277-ELN	FURNISHED WITH FIXTURE			ABOVE DOOR	SURFACE		SEE NOTE 1

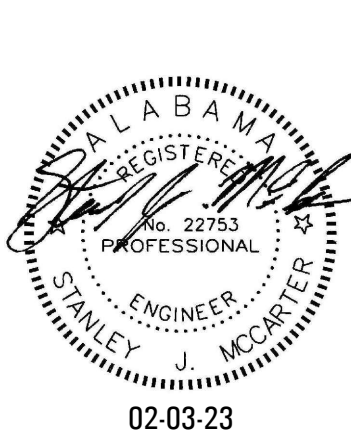
- NOTES:
- VERIFY FINISH WITH ARCHITECT.
 - EQUAL FIXTURE BY COLUMBIA AND DAYBRITE WILL BE ACCEPTABLE.
 - ALL LIGHT FIXTURES SHALL CARRY A MINIMUM 10 YEAR MANUFACTURER'S WARRANTYAS PER UFC 3-530-01 PARAGRAPH 4.4.2.1..



EQUIPMENT LABEL DETAIL

N.T.S. (TYPICAL)

- NOTES:
- INSTALL LABEL ON ALL DISCONNECTING MEANS FOR EACH PIECE OF EQUIPMENT.



Rev.	Description	Date

Job Number	21047/BRKR 202911
Date	February 2023
Drawn By	MWS
Checked By	SJM

Project Title

GLOBAL ASNT STORAGE FACILITY

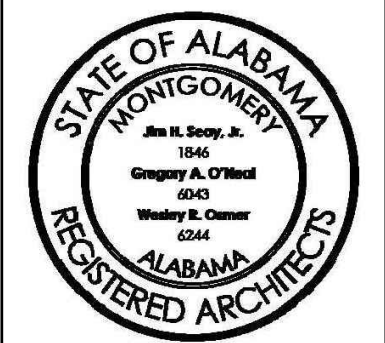
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Sheet Title

SYMBOLS, NOTES AND LIGHTING FIXTURE SCHEDULE

Sheet Number

E1.1



UNIT ID	CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	DISCONNECT TYPE
CU-1 & AHU-1*	PPAL(EX)-55,56	15/2	2 #10	#10	1/2"	30/2, F, RT

UNIT ID	CIRCUIT NUMBER	BREAKER SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	DISCONNECT TYPE
CU-1 & AHU-1*	PPAL(EX)-55,56	15/2	2 #10	#10	1/2"	30/2, F, RT

NF - NONFUSED
F - FUSED (FUSE PER MANUFACTURERS RECOMMENDATIONS)
RT - RAIN TIGHT
TS - TOGGLE SWITCH ("WP" INDICATES WEATHERPROOF)
DPTS- DOUBLE POLE TOGGLE SWITCH
MRS - MOTOR RATED SWITCH
S/T - SHUNT TRIP BREAKER
NOTE: MAINTAIN CODE REQUIRED CLEARANCES FOR DISCONNECTS.
* CIRCUIT AHU-1 FROM CU-1. PROVIDE A 20A DPTS DISCONNECT FOR AHU-1. CIRCUIT INDUOR UNIT WITH 2 #12
#1 AND 1/2(G) THHN IN 1/2"C.

NOTES:

1. ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:

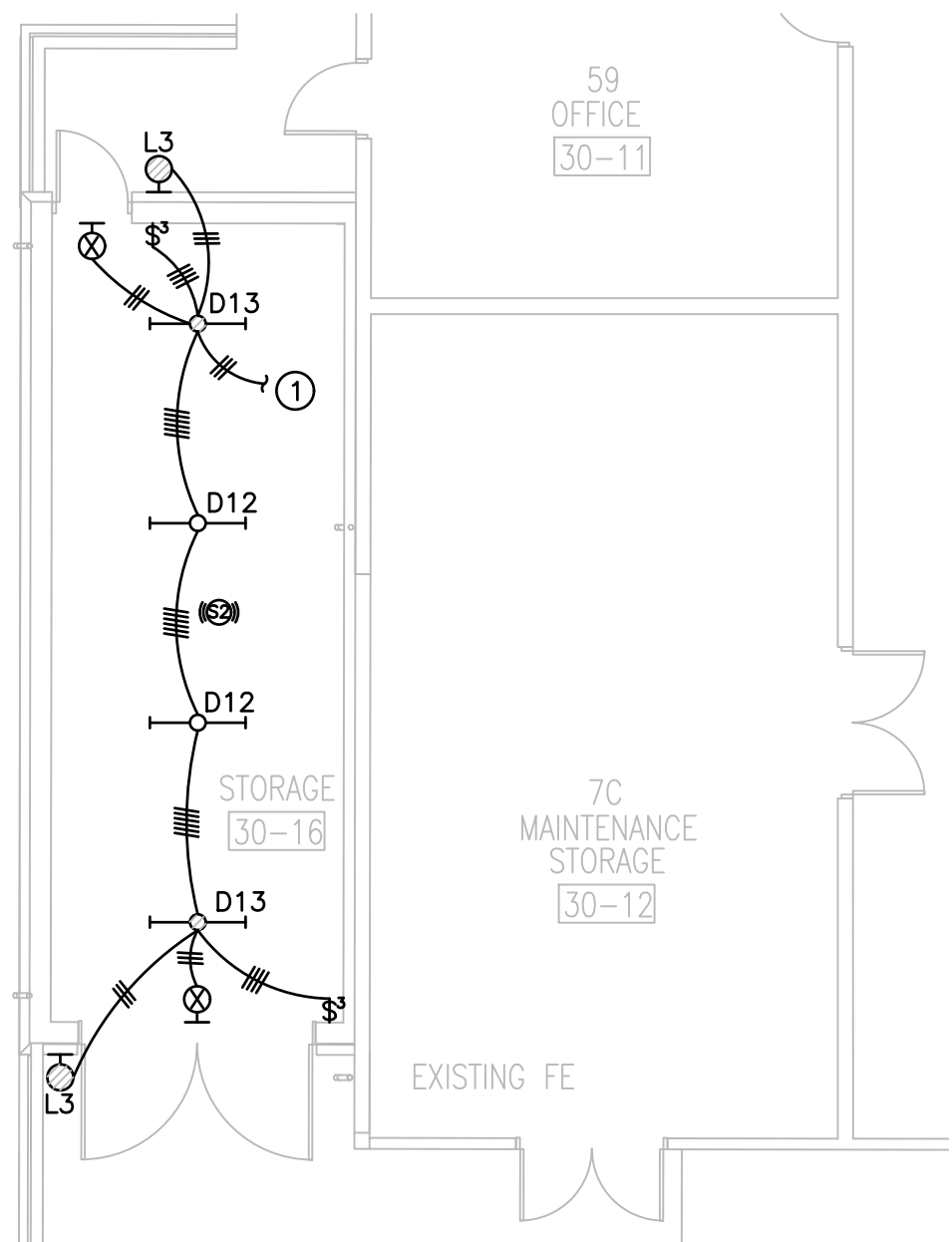
LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'.....#8 AWG

2. ALL 277 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS:

LESS THAN 135 FEET.....#12 AWG
BETWEEN 135' AND 230'.....#10 AWG
BETWEEN 231' AND 355'.....#8 AWG

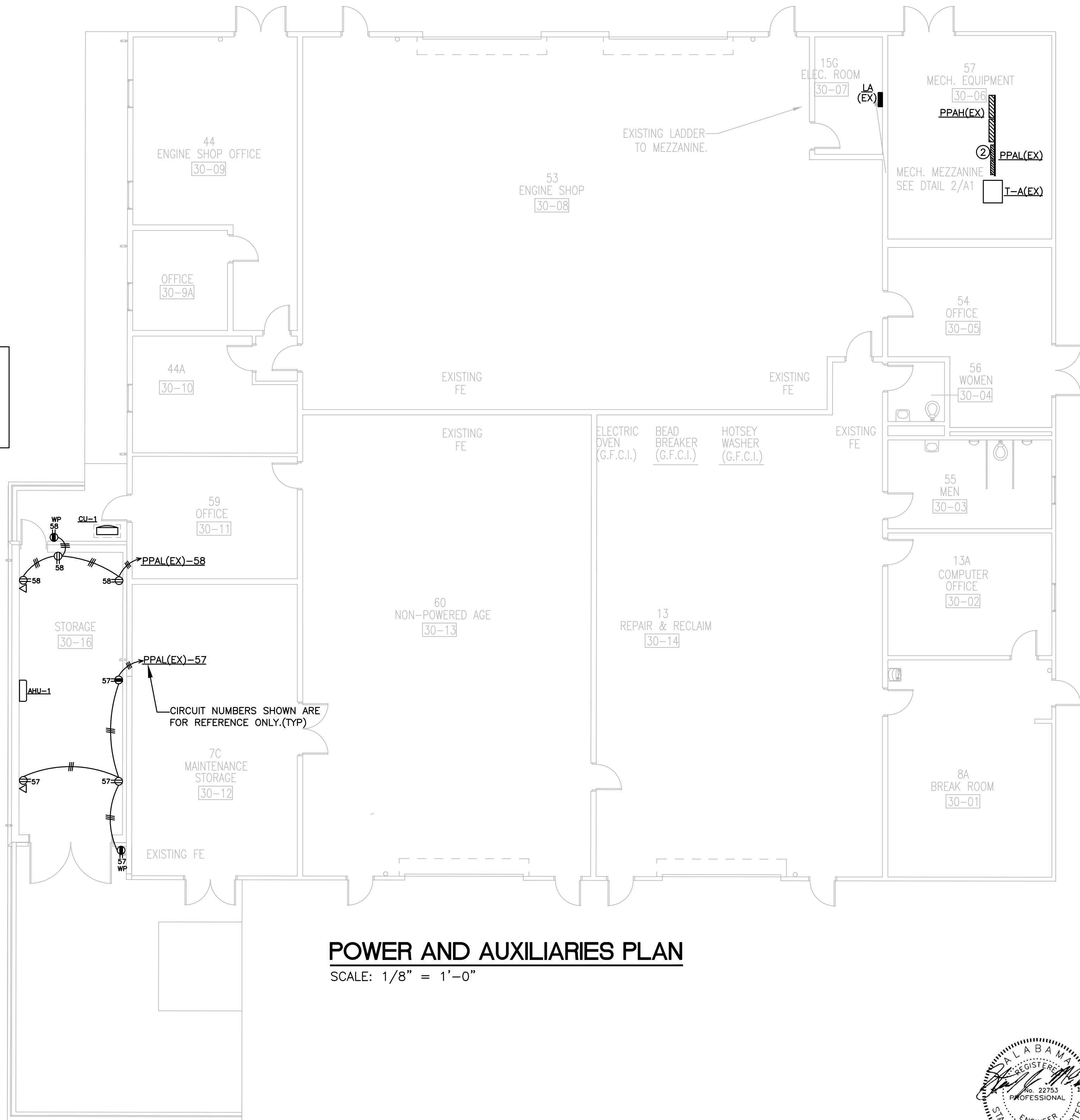
- ① TIE INTO EXISTING INTERIOR LIGHTING CIRCUIT IN THIS AREA. DO NOT OVERLOAD CIRCUIT.
- ② PROVIDE AND INSTALL (2)-20/1 AND (1)-15/2 BREAKER IN EXISTING PANEL PPAL FOR NEW RECEPTACLE CIRCUITS AND NEW MECHANICAL UNITS. NEW BREAKERS SHALL HAVE A 65 KAIC RATING.

OCCUPANCY SENSOR LOCATIONS AND TYPES SHOWN ARE SCHEMATIC AND SHOULD BE VERIFIED WITH MANUFACTURER PRIOR TO OCCUPANCY. OCCUPANCY SENSOR MANUFACTURER SHALL SUBMIT A LAYOUT OF RECOMMENDED SENSOR TYPES AND LOCATIONS PRIOR TO INSTALLATION. THE MANUFACTURER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PROVIDE COVERAGE FOR ALL ROOMS AND THE MANUFACTURER SHALL PROVIDE ON-SITE START-UP AND SENSOR ADJUSTMENTS AS NECESSARY TO ENSURE PROPER FUNCTION AND COVERAGE IN ALL ROOMS. THE TIME DELAYS THE SENSORS SHALL BE COORDINATED WITH THE OWNER. THE MANUFACTURER SHALL PROVIDE ALL RELAY POWER PACKS OR TWO RELAY POWER PACKS TO ENSURE THE MULTILEVEL SWITCHING FUNCTIONS CORRECTLY IN EACH SPACE. MANUFACTURER SHALL ALSO COORDINATE ALL rLIGHT ENABLED FIXTURES, SENSORS AND LOW VOLTAGE SWITCHES WITH THE MANUFACTURER TO ENSURE ALL CONTROLS REQUIRED TO MEET IECC 2015 ARE PROVIDED AND PROGRAMMED TO HAVE MANUAL ON, BILEVEL LIGHTING, ETC. AS REQUIRED.



LIGHTING PLAN

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



POWER AND AUXILIARIES PLAN

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

