

Orange Beach Sewer Department

Orange Beach, AL



**MCCOLLOUGH
ARCHITECTURE, INC.**
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GENERAL NOTES:

1. ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
3. IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
4. CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
5. DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
6. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION
8. PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
9. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
10. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
11. NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
12. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
13. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
14. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY w/ OSHA REQUIREMENTS.
15. ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.
16. ALL PRODUCTS, MATERIALS AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ALABAMA

JOB NO.:
DRAWN: JAG
CHECKED: SBM
DATE: 2020.3.27
REVISION:

SCALE: N/A

SHEET NO.:

T1.0

TITLE SHEET

GENERAL NOTES:

DISCLAIMER

- THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
- AT CONSTRUCTION ISSUE, THESE DRAWING REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK.

BUILDING DESIGN CRITERIA:

A. CODES

2018 INTERNATIONAL BUILDING CODE
 2017 COASTAL CONSTRUCTION SUPPLEMENT
 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 531)
 ASCE 7-16

B. DESIGN LOADS

ROOF DEAD LOAD 50 PSF
 ROOF LIVE LOAD 100 PSF - REDUCIBLE

C. WIND LOADS PER 2018 IBC & ASCE 7-16

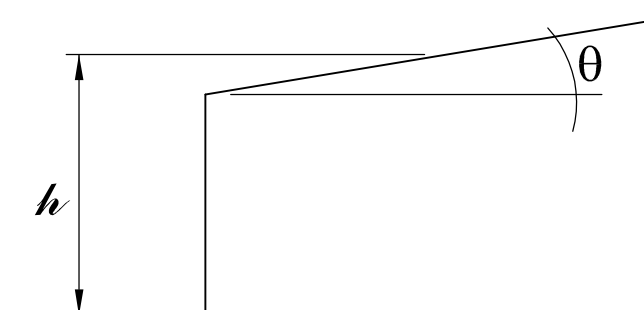
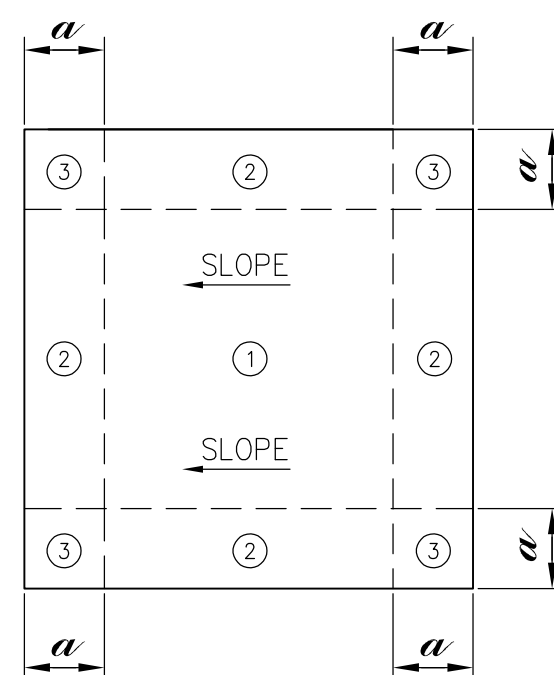
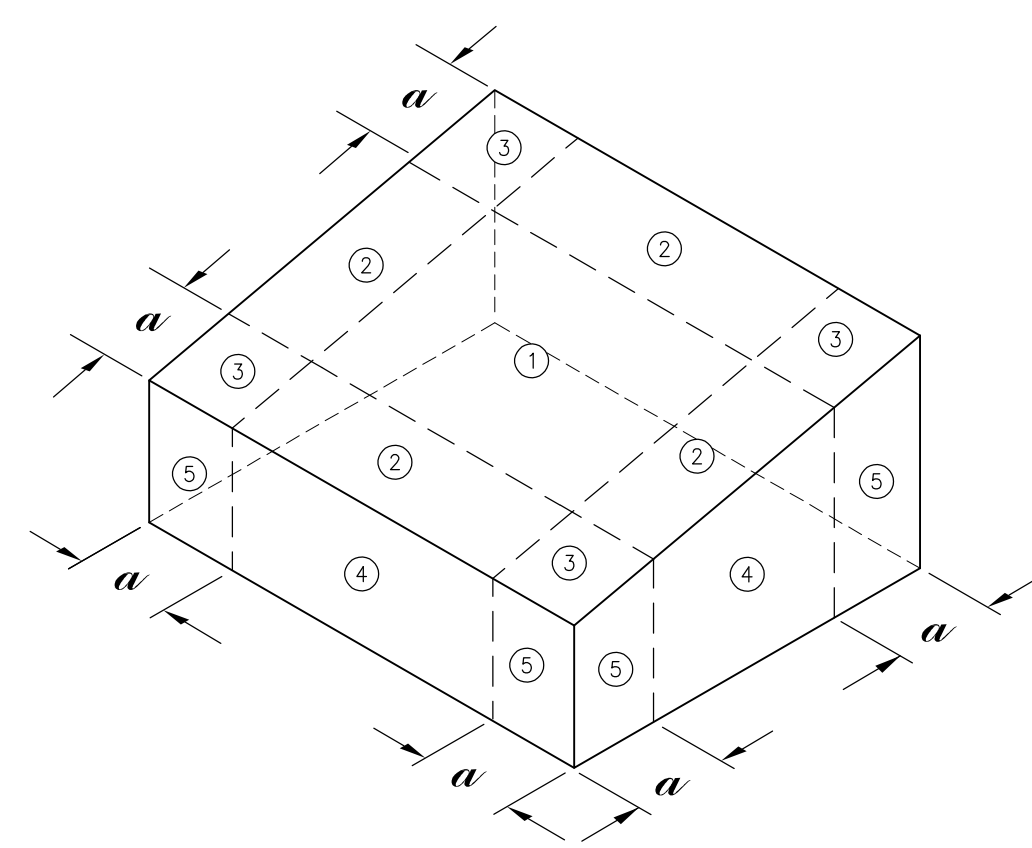
RISK CATEGORY III
 ULTIMATE DESIGN WIND SPEED, $V_{ult} = 170$ MPH ♦
 NOMINAL DESIGN WIND SPEED, $V_{asd} = 132$ MPH *
 EXPOSURE CATEGORY = C
 MEAN ROOF HEIGHT, $h < 15$ FT
 ADJUSTMENT FACTOR FOR HEIGHT AND EXPOSURE, $K = 1.19$
 TOPOGRAPHIC FACTOR, $K_{zt} = 1.00$
 $\alpha = \pm 5.8$ FEET
 ROOF PITCH = 1.25/12
 ROOF SLOPE, $\theta = 5.95^\circ$

COMPONENTS AND CLADDING ASD DESIGN PRESSURES (PSF)**
 REFERENCE: CHAPTER 30 OF ASCE 7-16

ZONE	TRIB. AREA	COMPONENT PRESSURE			
		POSITIVE (+)	NEGATIVE (-)		
ROOF	1	10	+15.5	-38.0	
		20	+14.5	-37.0	
		50	+13.2	-35.7	
	2	100	+12.2	-34.7	
		10	+15.5	-63.7	
		20	+14.5	-62.9	
	3	50	+13.2	-47.9	
		100	+12.2	-41.2	
		10	+15.5	-95.9	
	WALL	4	20	+14.5	-79.4
			50	+13.2	-57.7
			100	+12.2	-41.2
5		10	+38.0	-41.2	
		20	+36.2	-39.5	
		50	+34.0	-37.2	
5		100	+32.3	-35.5	
		10	+38.0	-90.8	
		20	+36.2	-47.4	
5		50	+34.0	-42.8	
		100	+32.3	-39.5	

REFERENCE FIGURES BELOW:

DESIGN ALL WINDOWS AND DOORS AS IMPACT RESISTANT FOR PRESSURE ABOVE



DESIGN WIND LOAD NOTES:

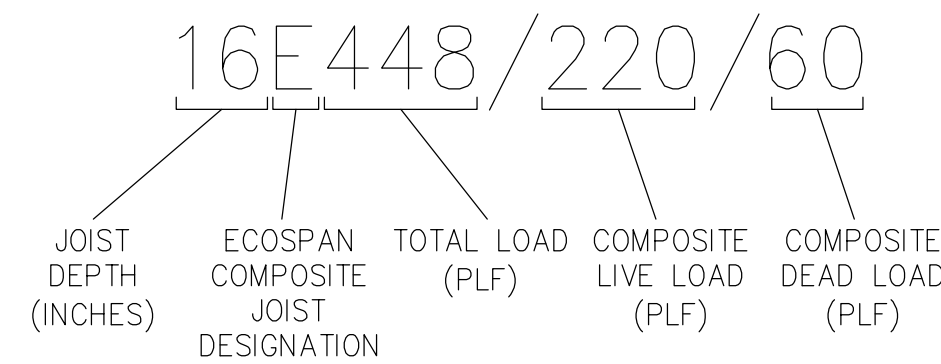
♦	PER CITY OF ORANGE BEACH, RISK CAT. III BUILDINGS ARE REQUIRED TO BE DESIGNED FOR AN ULTIMATE WIND SPEED (V_{ult}) OF 170 MPH. NOTE THAT 2018 IBC REFERS TO THIS WIND SPEED AS THE BASIC DESIGN WIND SPEED, V .
*	REFERENCE SECTION 1609.3.1 AND/ OR TABLE 1609.3.1 OF THE 2018 INTERNATIONAL BUILDING CODE FOR CONVERSION OF V TO V_{asd}
**	SHOWN IN THIS TABLE ARE NET DESIGN WIND PRESSURES, P_{net} , DETERMINED PER CHAPTER 30 OF ASCE 7-16. THESE PRESSURES ARE BASED ON ASD WIND SPEED, V_{asd} LISTED ABOVE AND SHALL BE APPLIED NORMAL TO EACH BUILDING SURFACE. NOTE THAT THESE WIND PRESSURES REPRESENT 0.6W COMPONENT LISTED WITHIN ASD LOAD COMBINATIONS OF ASCE 7-16, CHAPTER 2.

ROOF DECK:

- STEEL ROOF DECK SHALL BE 1 1/2"-22 GAGE INTERMEDIATE RIB GALVANIZED DECK. ATTACH AND ERECT PER MANUFACTURERS REQUIREMENTS.
- PROVIDED ROOF DECK SHALL BE ATTACHED USING #10 SCREWS AT SIDELAPS AND #12 SCREWS AT BEARING LOCATIONS.
- PROVIDED ROOF DECK SHALL BE SCREW ATTACHED, DO NOT WELD.
- ATTACH DECK TO ALL BEARING MEMBERS.

ECOSPAN JOISTS:

- JOISTS:ECO SPAN JOISTS ARE TO BE 10" OR 14" DEEP WITH A MINIMUM CHORD MOMENT OF INERTIA OF 800 IN⁴.
- DECKING: ECOSPAN UTILIZES MULTI-SPAN SHEETS OF STEEL DECKING. 1.5"-24 GAGE COMPOSITE STEEL DECK
- DETAIL BELOW ILLUSTRATES THE FORMAT USED TO DESIGNATE AN E-SERIES JOIST. LOADING NUMBERS ARE SHOWN IN POUNDS PER LINEAL FOOT (PLF). TOTAL LOAD IS THE SUMMATION OF THE UN-FACTORED LIVE LOAD, NON-COMPOSITE DEAD LOAD AND COMPOSITE DEAD LOAD.
- SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO FABRICATION.



MASONRY:

- HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C- 90 LIGHTWEIGHT, TYPE N-1 WITH A MINIMUM COMPRESSIVE STRENGTH $f'_m = 1500$ PSI.
- ALL MORTAR FOR USE IN MASONRY SHALL CONFORM TO ASTM C 270, TYPE M OR S. GROUT USED IN MASONRY SHALL BE MINIMUM 2500 PSI AND CONFORM TO ASTM C 476. MINIMUM 8 SACK MIX.
- REINFORCING BARS TO BE GRADE 60 AND MEET ASTM A 615.
- GROUT FILL ALL CELLS BELOW GRADE.
- LAY ALL MASONRY IN A RUNNING BOND PATTERN.
- PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT AT 16" O.C. FOR TYPICAL HORIZONTAL REINFORCING.
- PROVIDE AT LEAST 2-#5 VERTICAL BARS AT EACH END AND CORNERS OF ALL WALLS. SEE WALL DETAILS FOR TYPICAL VERTICAL REINFORCING.
- VERTICAL AND HORIZONTAL REINFORCING SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 40 BAR DIAMETERS.
- VERTICAL BARS SHALL BE STRAIGHT AND TRUE AND CENTERED IN WALL.
- ALL REINFORCED MASONRY WALL SECTIONS REQUIRE DOWELS FROM FOOTING, SAME SIZE AND QUANTITY AS VERTICAL REINFORCEMENT.
- PROVIDE A MINIMUM OF 1" GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

STEEL:

- STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- ALL STRUCTURAL STEEL TO MEET ASTM A992- $f'_y = 50$ ksi. ALL TUBING TO MEET ASTM A500, GRADE B - $f'_y = 46$ ksi.
- WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION "WELDING IN BUILDING CONSTRUCTION".
- ALL SHOP CONNECTIONS TO HAVE 3/16" FILLET WELDS MINIMUM UNLESS NOTED AS BOLTED CONNECTIONS.
- ALL FIELD WELDS TO BE WITH E70XX ELECTRODES.
- ALL ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS REQUIRED.
- STRUCTURAL STEEL SHALL HAVE SP3 GRADE "POWER TOOL" CLEANING IN ACCORDANCE WITH THE STRUCTURAL STEEL PAINTING COUNCIL.
- STRUCTURAL STEEL SHALL HAVE ONE COAT OF PRIMER EXCEPT THOSE MEMBERS THAT ARE GALVANIZED.
- THE STEEL FRAME IS "NON-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
- ANCHOR BOLTS SHALL NOT BE MODIFIED UNLESS APPROVED BY ENGINEER.

FOUNDATIONS:

- NO SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT. UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE SOIL SUPPORT FOR THE FOUNDATION DESIGN, AND SHALL REPORT UNEXPECTED CONDITIONS TO THE DESIGNER.
- ALL FOOTINGS, OR PORTIONS THEREOF, BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS.
- FOOTINGS TO BE CENTERED ON WALLS OR COLUMNS UNLESS NOTED OTHERWISE.
- ALLOWABLE SOIL BEARING = 1500 psf
- COMPACT ALL SOILS BELOW SLAB AND FOOTINGS 95% STANDARD PROCTOR DENSITY.
- ALL SOIL FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

CONCRETE WORK:

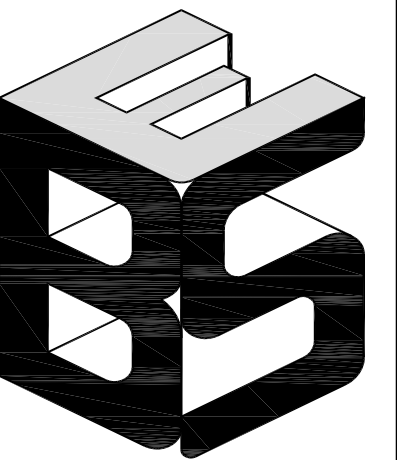
- CONCRETE (NORMAL WEIGHT) COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI FOR FOUNDATIONS, 4000 PSI FOR ELEVATED SLABS, UNLESS NOTED.
- ALL REINFORCING SHALL MEET ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC (WWF) SHALL MEET ASTM A185.
- CONCRETE COVERAGE OF REINFORCEMENT SHALL BE:
 FOOTINGS 3" BOTTOM AND SIDES
 WALLS 1 1/2"
 SLABS 3/4"
 PEDESTALS 1 1/2" CLEAR OF TIES
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PLACEMENT".
- PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR II.
- ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
- ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED PER CRSI AND ACI STANDARDS, INCLUDING CONCRETE COVER AND BAR SUPPORTS. LAP BARS AT ALL SPLICES, INCLUDING CORNER BARS AND DOWELS, IN ACCORDANCE WITH SPLICE SCHEDULE OR IN LIEU THEREOF 40 BAR DIAMETERS. LAP WWF 6" OR ONE FULL MESH, WHICHEVER IS GREATER.

WIND BORNE DEBRIS PROTECTION FOR EXTERIOR WINDOWS IBC 2018

- WINDOWS TO BE DESIGNED FOR AN ASD DESIGN WIND PRESSURE OF ± 50 PSF REFERENCE CHART.
- THE CONTRACTOR MUST USE IMPACT RESISTANT WINDOWS PER ASTM E-1886 & E-1996.

STRUCTURAL DRAWING INDEX:

- S0.0 - STRUCTURAL NOTES
- S1.0 - FOUNDATION PLAN
- S2.0 - ROOF FRAMING PLAN
- S3.0 - SECTIONS AND DETAILS
- S4.0 - SECTIONS AND DETAILS



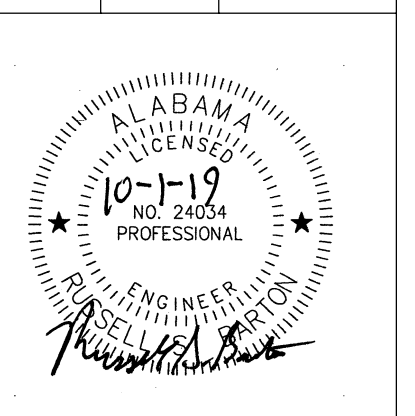
**BARTON & SHUMER
 ENGINEERING, LLC**

3213 MIDTOWN PARK SOUTH
 MOBILE, AL 36606
 PHONE: 251-219-4942

**STRUCTURAL NOTES
 ORANGE BEACH SEWER**

ORANGE BEACH, ALABAMA

LOCATION:



REVISIONS:

DRAWN BY: TDL

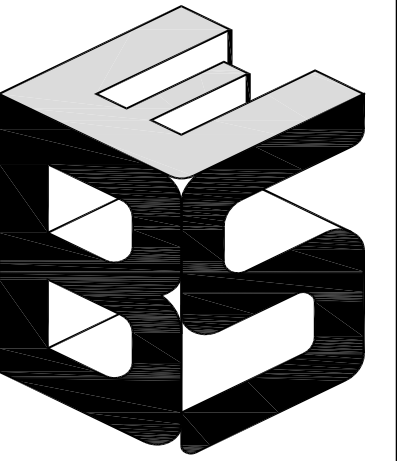
DESIGNED BY: RSB

DATE: 01 OCT 2019

SHEET

S0.0

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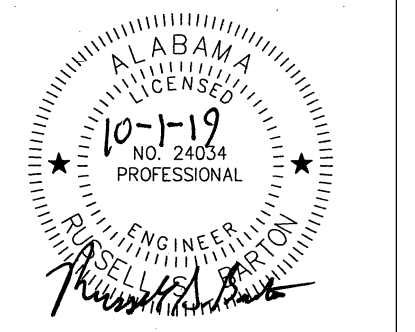
**BARTON & SHUMER
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MOBILE, AL 36606
PHONE: 251-219-4942

**FOUNDATION PLAN
ORANGE BEACH SEWER**

ORANGE BEACH, ALABAMA

LOCATION:



REVISIONS:

DRAWN BY: TDL

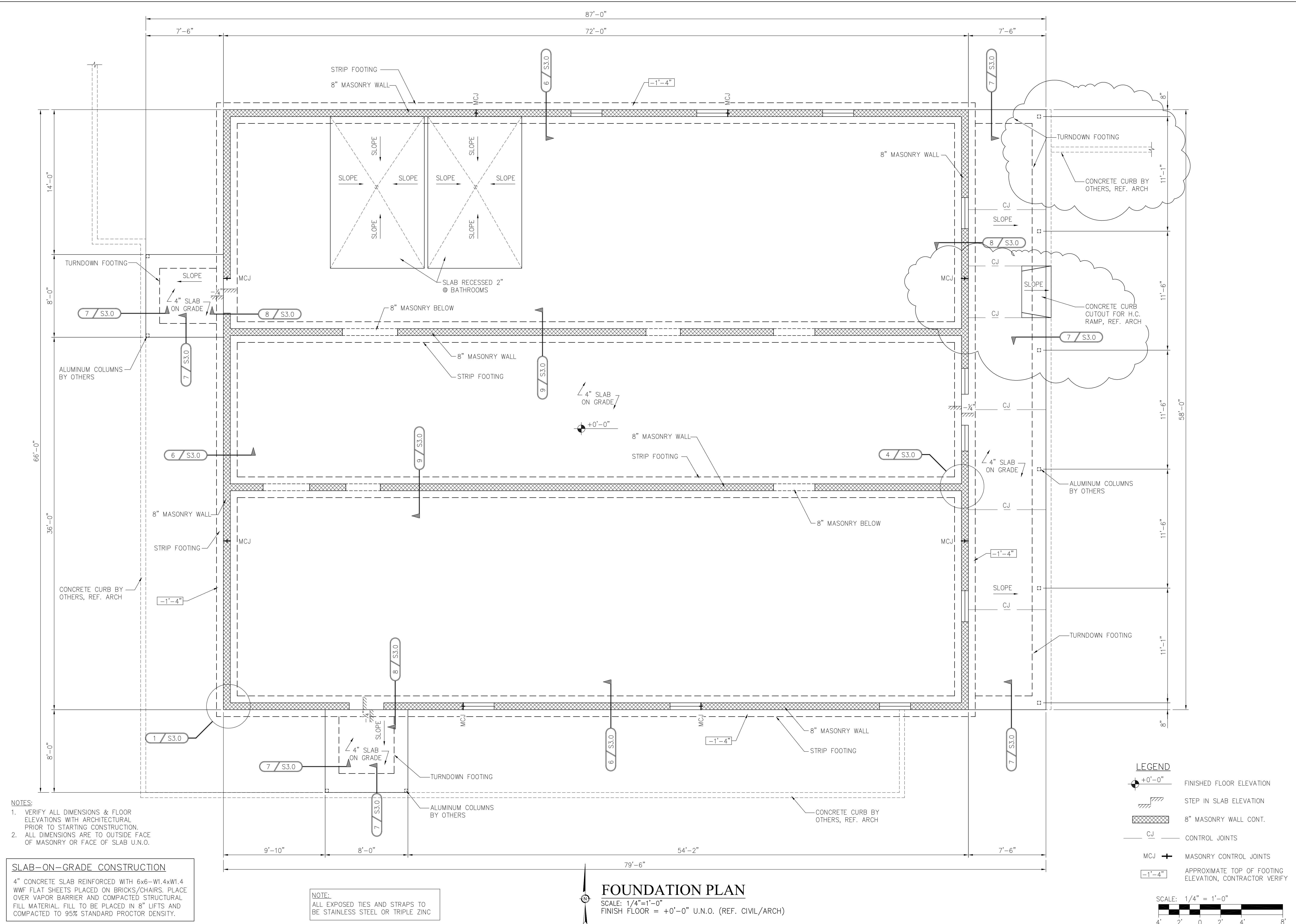
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DATE:
01 OCT 2019

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S1.0

19219



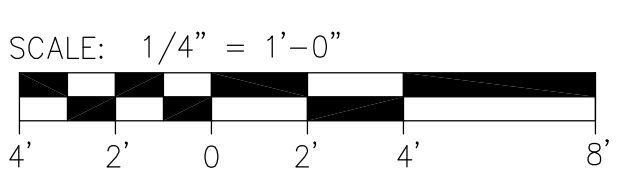
- NOTES:**
1. VERIFY ALL DIMENSIONS & FLOOR ELEVATIONS WITH ARCHITECTURAL PRIOR TO STARTING CONSTRUCTION.
 2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY OR FACE OF SLAB U.N.O.

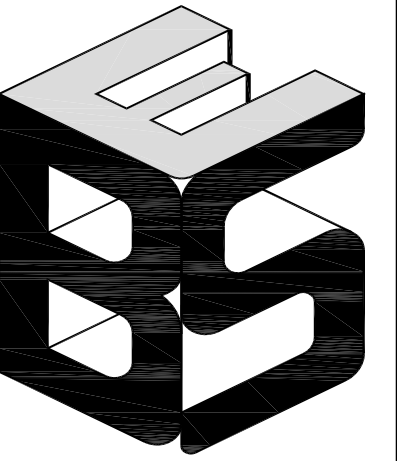
SLAB-ON-GRADE CONSTRUCTION
4" CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF FLAT SHEETS PLACED ON BRICKS/CHAIRS. PLACE OVER VAPOR BARRIER AND COMPACTED STRUCTURAL FILL MATERIAL. FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

FOUNDATION PLAN
SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O. (REF. CIVIL/ARCH)

- LEGEND**
- +0'-0" FINISHED FLOOR ELEVATION
 - STEP IN SLAB ELEVATION
 - 8" MASONRY WALL CONT.
 - CJ CONTROL JOINTS
 - MCJ MASONRY CONTROL JOINTS
 - 1'-4" APPROXIMATE TOP OF FOOTING ELEVATION, CONTRACTOR VERIFY





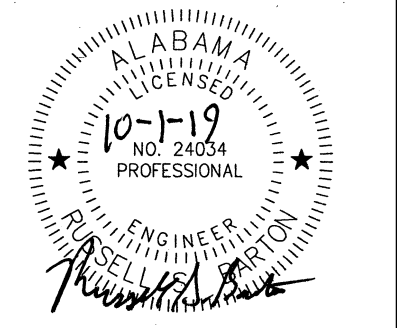
**BARTON & SHUMER
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3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

**ROOF FRAMING PLAN
ORANGE BEACH SEWER**

ORANGE BEACH, ALABAMA

LOCATION:



REVISIONS:

DRAWN BY: TDL

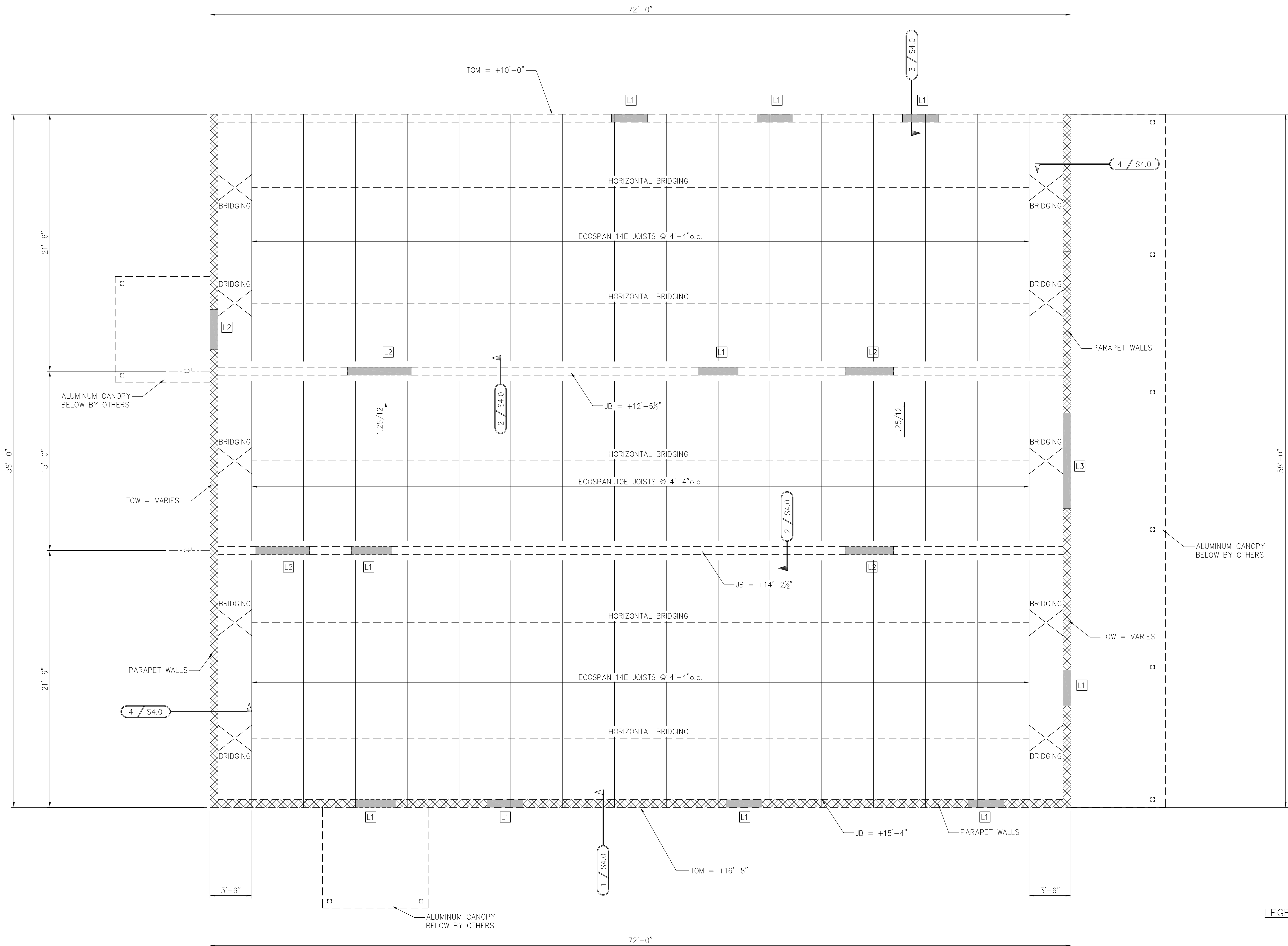
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DATE:
01 OCT 2019

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S2.0

19219



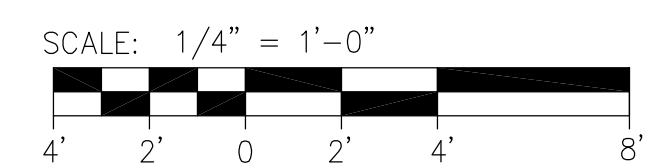
TYPICAL ELEVATED SLAB CONSTRUCTION
2 1/2" TOTAL CONCRETE ON 1 1/2"-22 GAGE GALVANIZED METAL FORM DECK. REINFORCE SLAB WITH 6X6 W1.4xW1.4 FLAT SHEETS SET 1" CLEAR FROM TOP OF SLAB. TOTAL THICKNESS = 4".

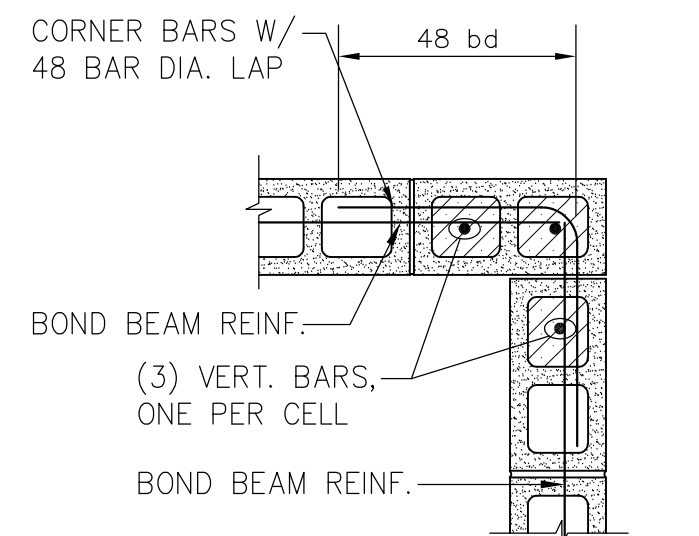
ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"
TOP OF MASONRY = +16'-8" U.N.O. = JOIST BEARING

CONCRETE LINTEL SCHEDULE					
MARK	MAX OPENING SIZE	LINTEL WIDTH	LINTEL DEPTH	BTM REINF.	TOP REINF.
L1	4'-0"	8"	8"	(1)#5 BAR	---
L2	6'-0"	8"	16"	(1)#5 BAR	(1)#5 BAR
L3	8'-0"	8"	16"	(2)#5 BARS	(1)#5 BAR

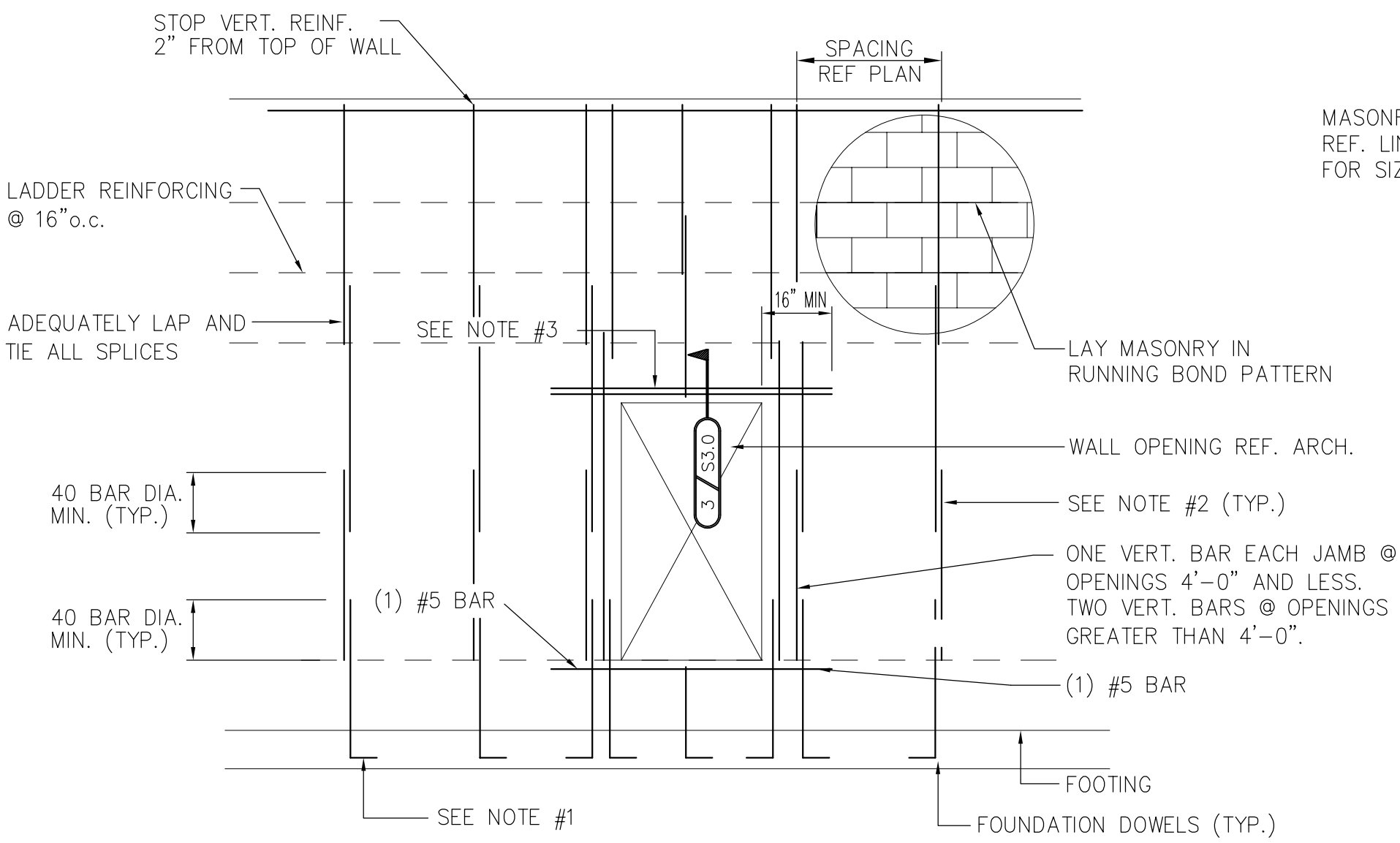
LEGEND

- TOM TOP OF MASONRY
- TOB TOP OF BEAM
- JB JOISTS BEARING





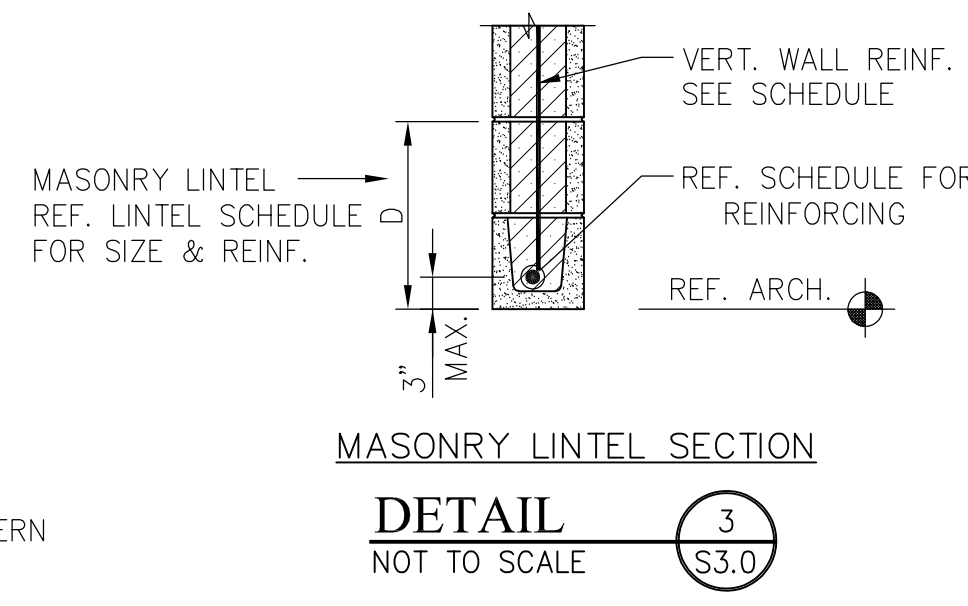
TYPICAL CMU CORNER REIN.
DETAIL 1
NOT TO SCALE S3.0



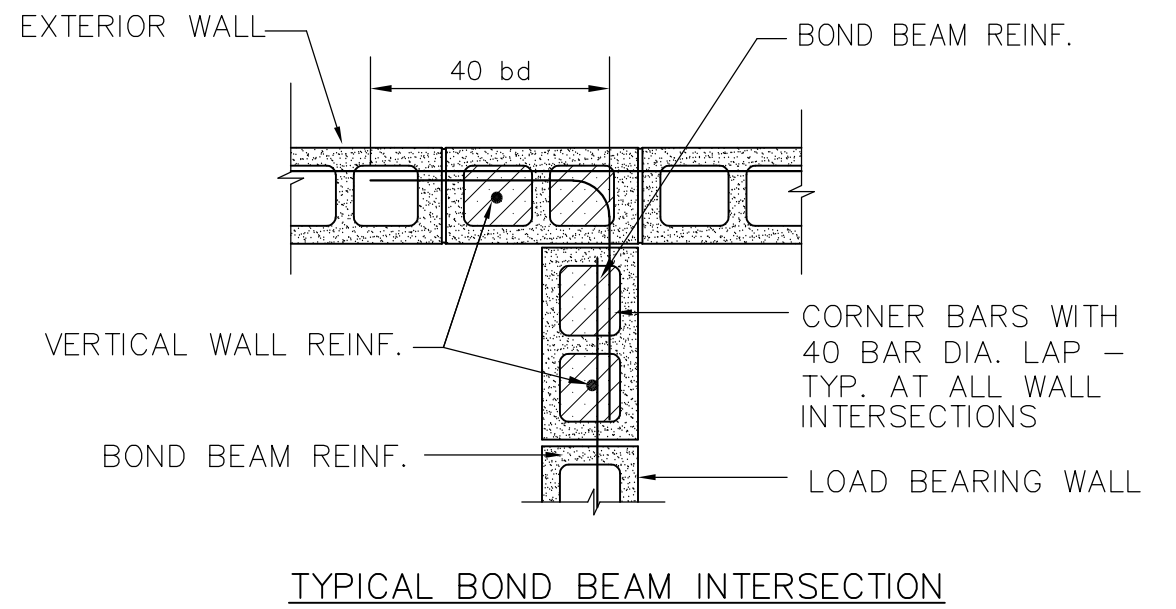
TYPICAL EXTERIOR MASONRY WALL REINFORCING
DETAIL 2
NOT TO SCALE S3.0

MASONRY WALL REINFORCING NOTES

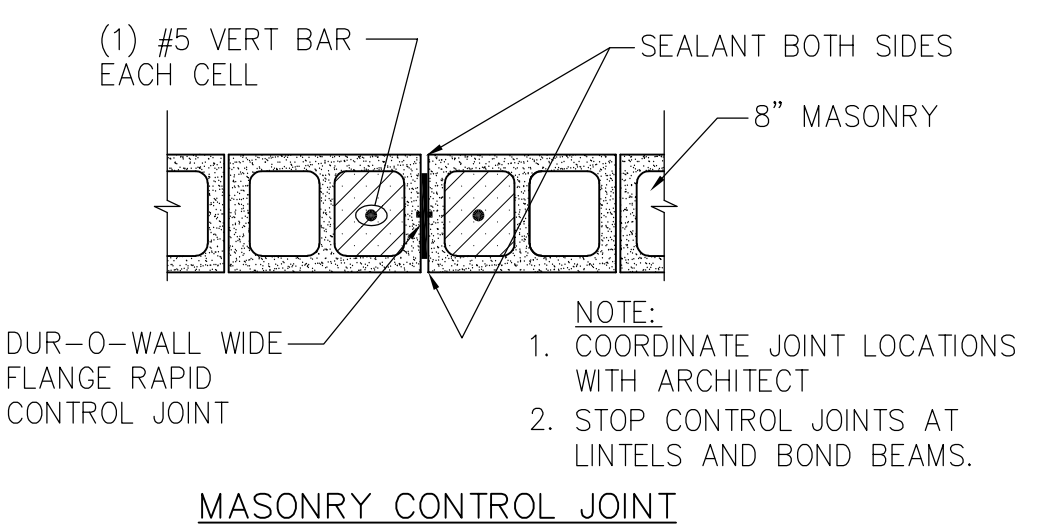
1. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED IN CENTER OF CMU WALL U.N.O. WITH ACI STANDARD HOOK. PLACE HOOKS DIRECTLY ON TOP OF BOTTOM LAYER OF FOOTING REINFORCING.
2. TYPICAL VERTICAL WALL REINFORCEMENT TO BE PLACED IN CENTER OF WALL U.N.O. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT FOR CLARITY, ALL VERTICAL AND HORIZONTAL REINFORCING IS SHOWN CONTINUOUS, HOWEVER VERTICAL SHALL BE LAPPED AND SPLICED TO ACCOMMODATE MAXIMUM GROUT LIFTS OF 4'-0" AND HORIZONTAL BARS SHALL BE LAPPED AND SPLICED AS REQUIRED. ALL VERTICAL BARS SHALL BE ACCURATELY LOCATED WITHIN THE CELL WITH REBAR POSITIONERS PRIOR TO PLACING GROUT IN CELLS. ALL LAPS SHALL BE 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.
3. REFERENCE CMU LINTEL SCHEDULE FOR SIZE, LOCATION, AND QUANTITY OF LINTEL REINFORCEMENT.
4. ALL VERTICAL REINFORCING SHALL STOP 2" CLEAR FROM TOP OF WALL UNLESS NOTED.
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE AT 16" o.c.
6. REFERENCE SECTIONS AND DETAILS FOR SIZE AND LOCATION OF BOND BEAMS AND QUANTITY OF REINFORCING. PROVIDE HORIZONTAL BOND BEAMS IN ALL INTERIOR MASONRY WALLS, 8" HIGH WITH (1)-#5 CONT. AT TOP OF WALL. PROVIDE CORNER BARS AT ALL BOND BEAM INTERSECTIONS TO MATCH HORIZONTAL REINFORCING.
7. REFERENCE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS.



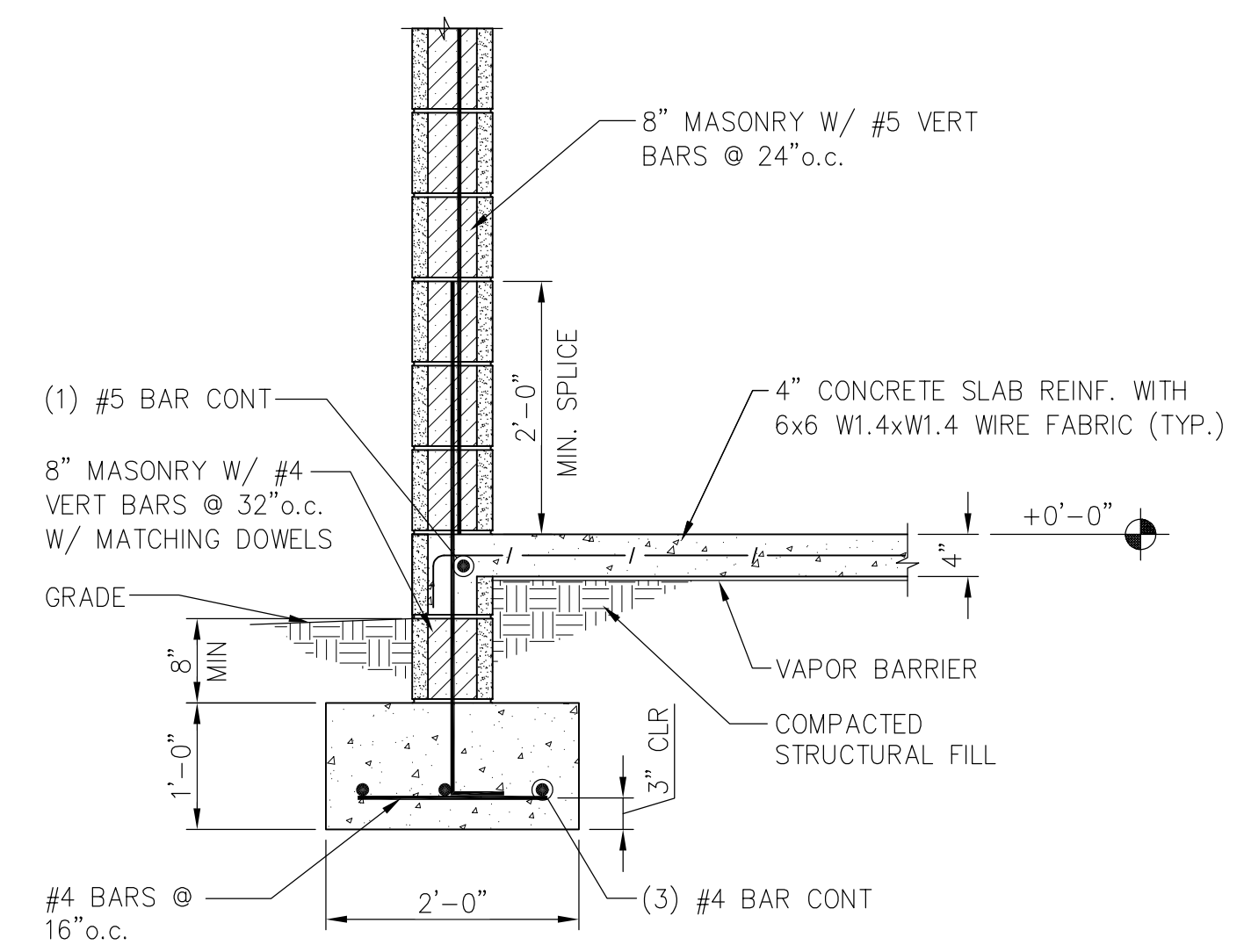
MASONRY LINTEL SECTION
DETAIL 3
NOT TO SCALE S3.0



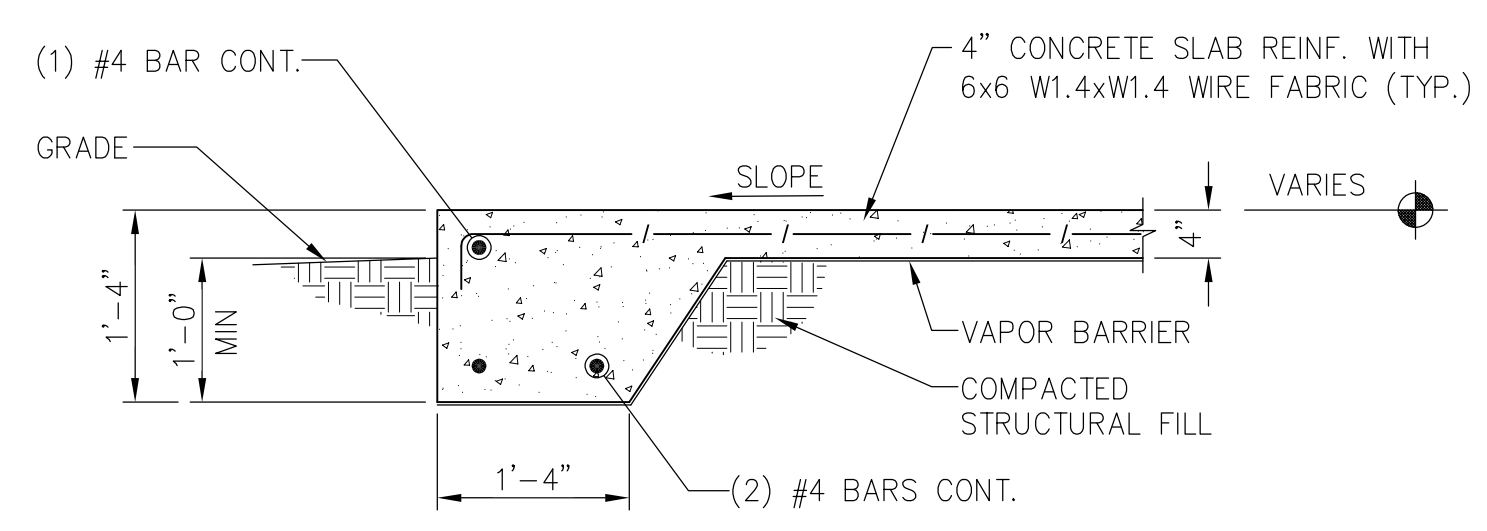
TYPICAL BOND BEAM INTERSECTION
DETAIL 4
SCALE: 3/4"=1'-0" S3.0



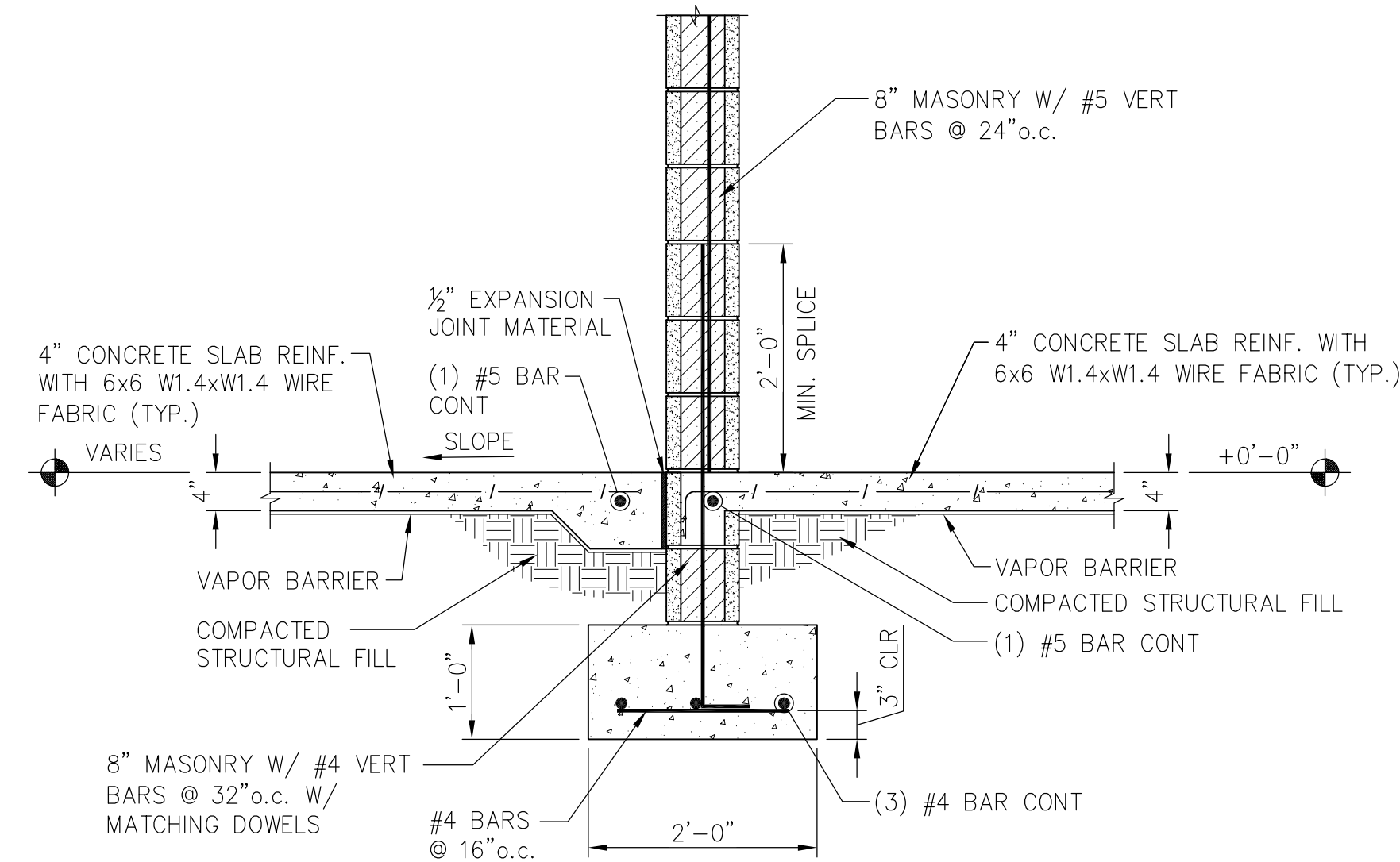
MASONRY CONTROL JOINT
DETAIL 5
NOT TO SCALE S3.0



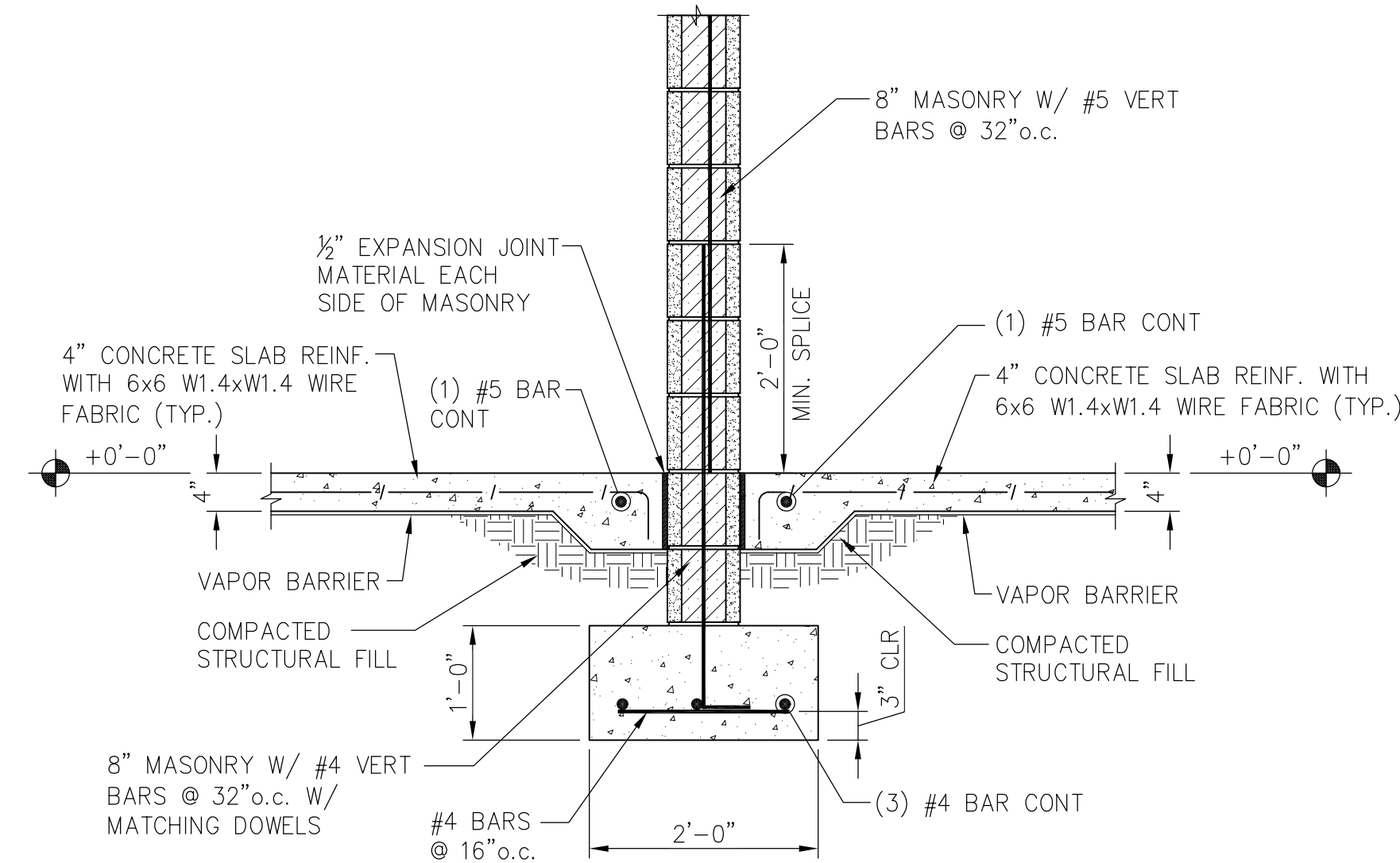
EXTERIOR WALL
SECTION 6
SCALE: 3/4"=1'-0" S3.0



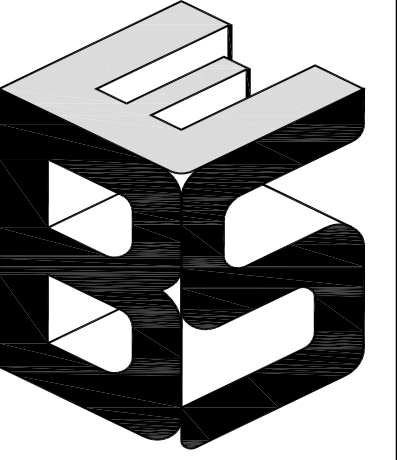
SLAB EDGE
SECTION 7
SCALE: 3/4"=1'-0" S3.0



EXTERIOR WALL @ SLAB EDGE
SECTION 8
SCALE: 3/4"=1'-0" S3.0



INTERIOR LOAD BEARING WALL
SECTION 9
SCALE: 3/4"=1'-0" S3.0

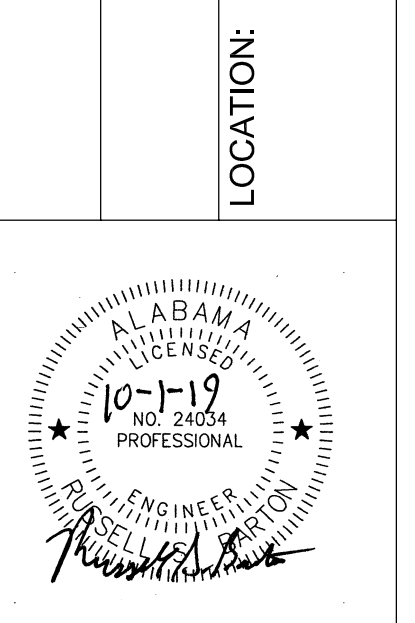


BARTON & SHUMER
ENGINEERING, LLC

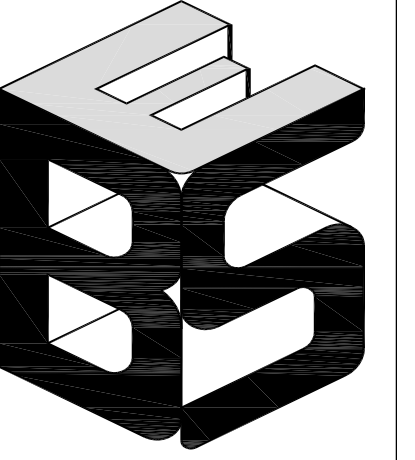
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

SECTIONS AND DETAILS
ORANGE BEACH SEWER

ORANGE BEACH, ALABAMA



REVISIONS:	
DRAWN BY: TDL	
DESIGNED BY: RSB	
DATE: 01 OCT 2019	SHEET
	S3.0
19219	



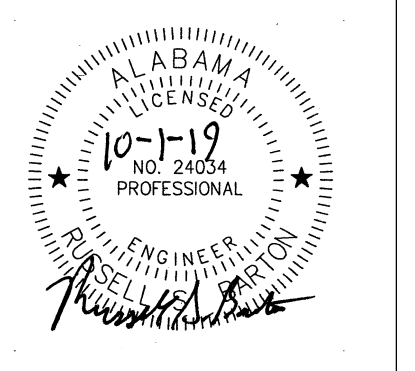
**BARTON & SHUMER
ENGINEERING, LLC**

3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

**SECTIONS AND DETAILS
ORANGE BEACH SEWER**

ORANGE BEACH, ALABAMA

LOCATION:



REVISIONS:

DRAWN BY: TDL

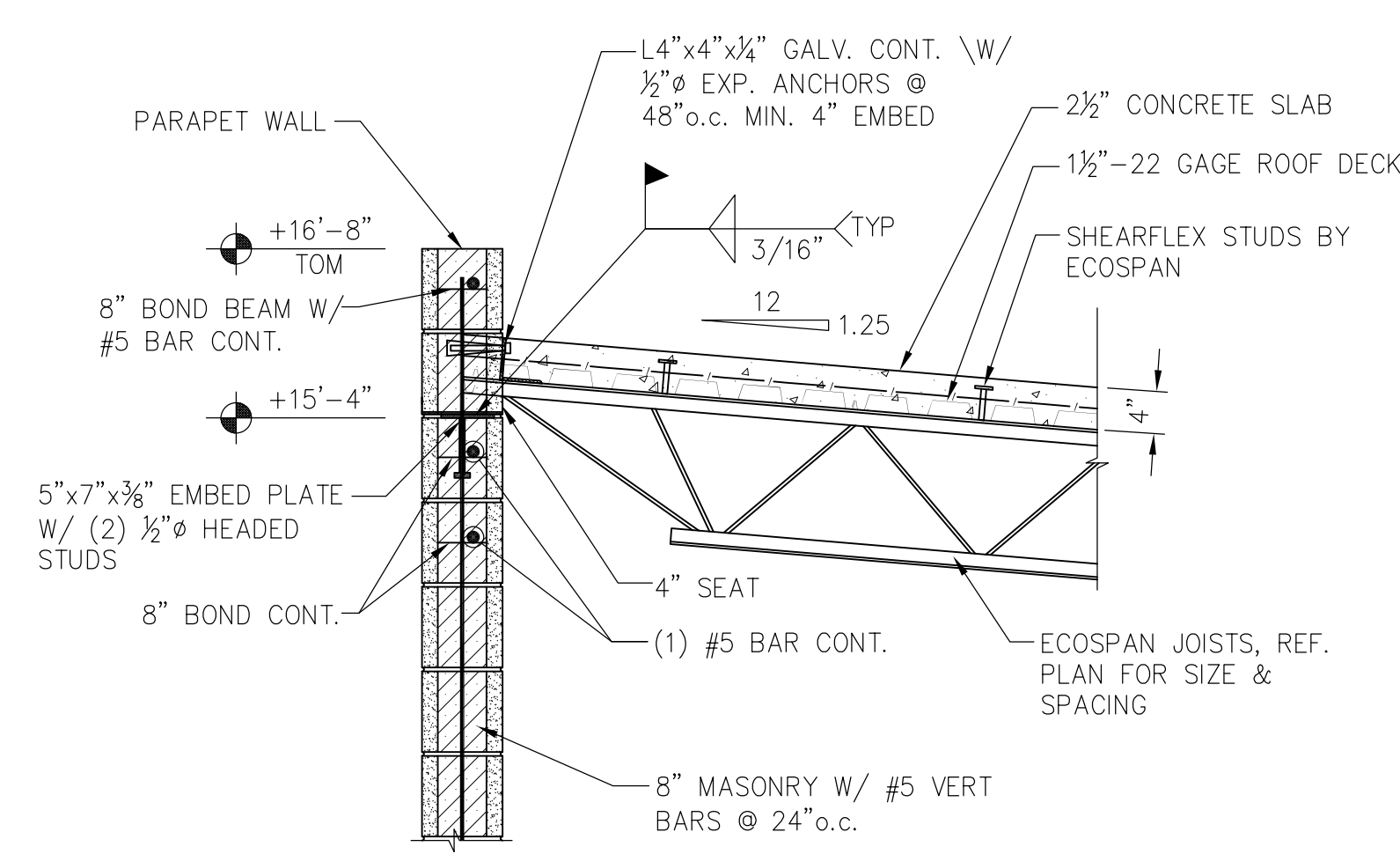
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DATE: 01 OCT 2019

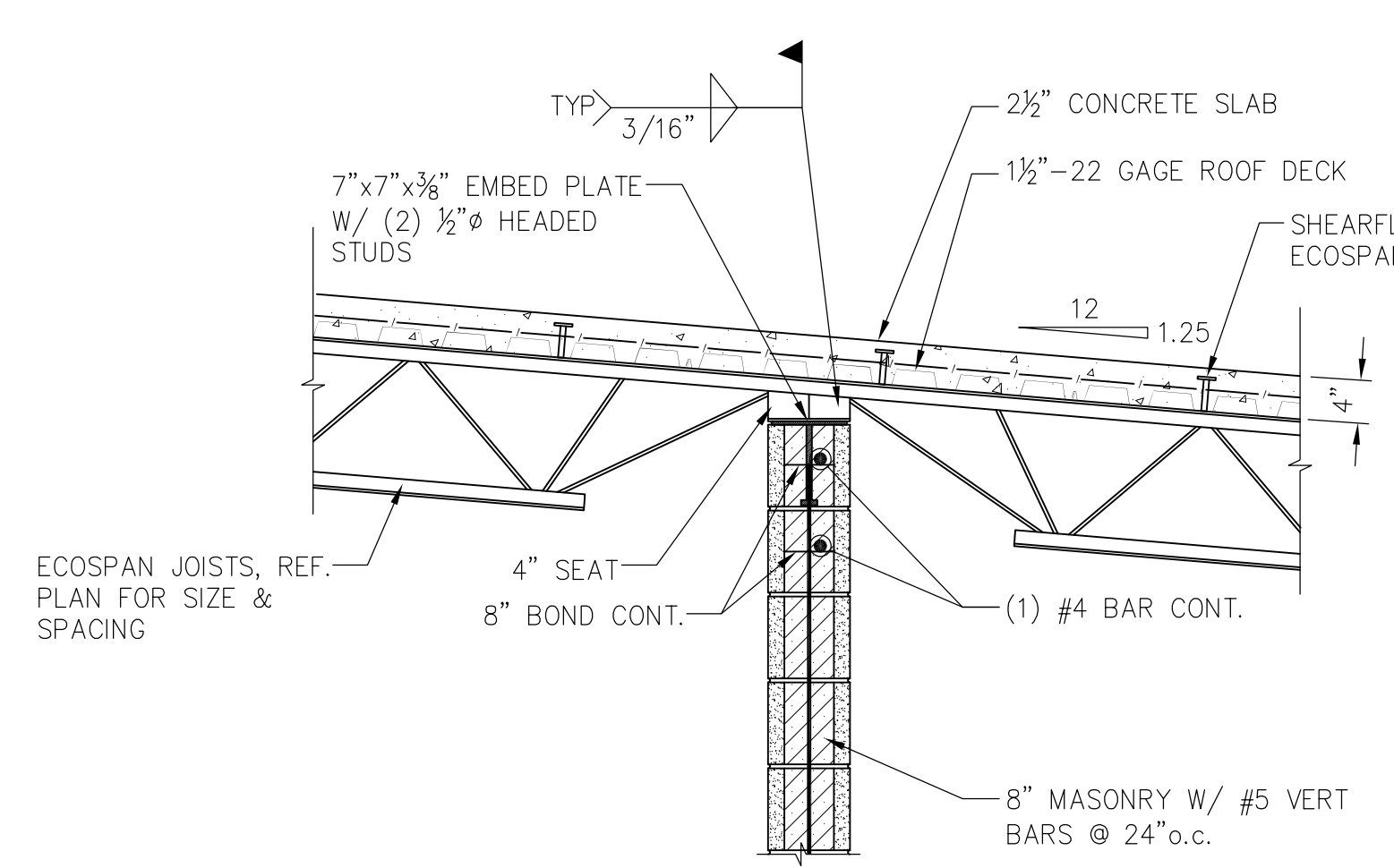
SHEET

S4.0

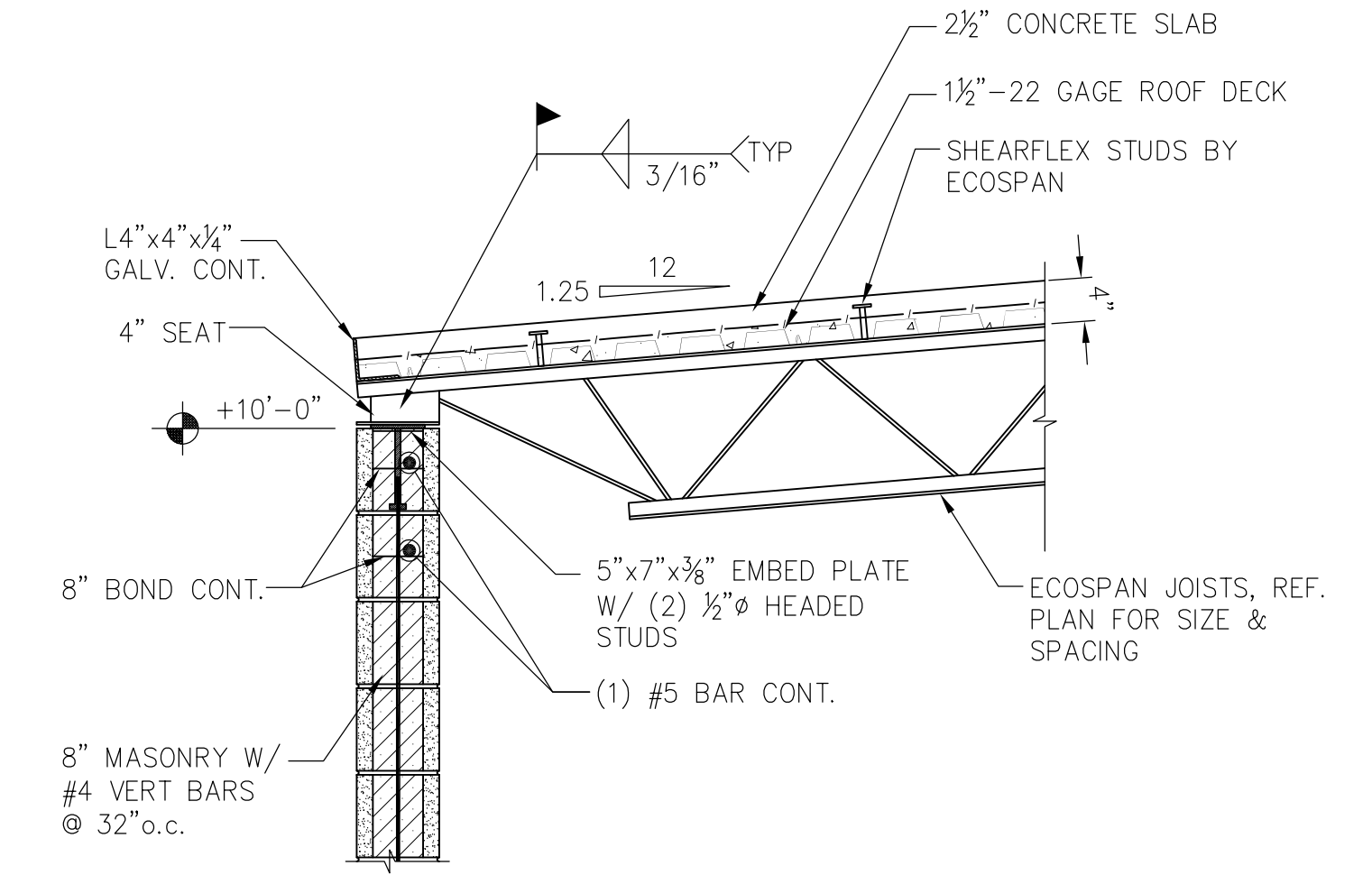
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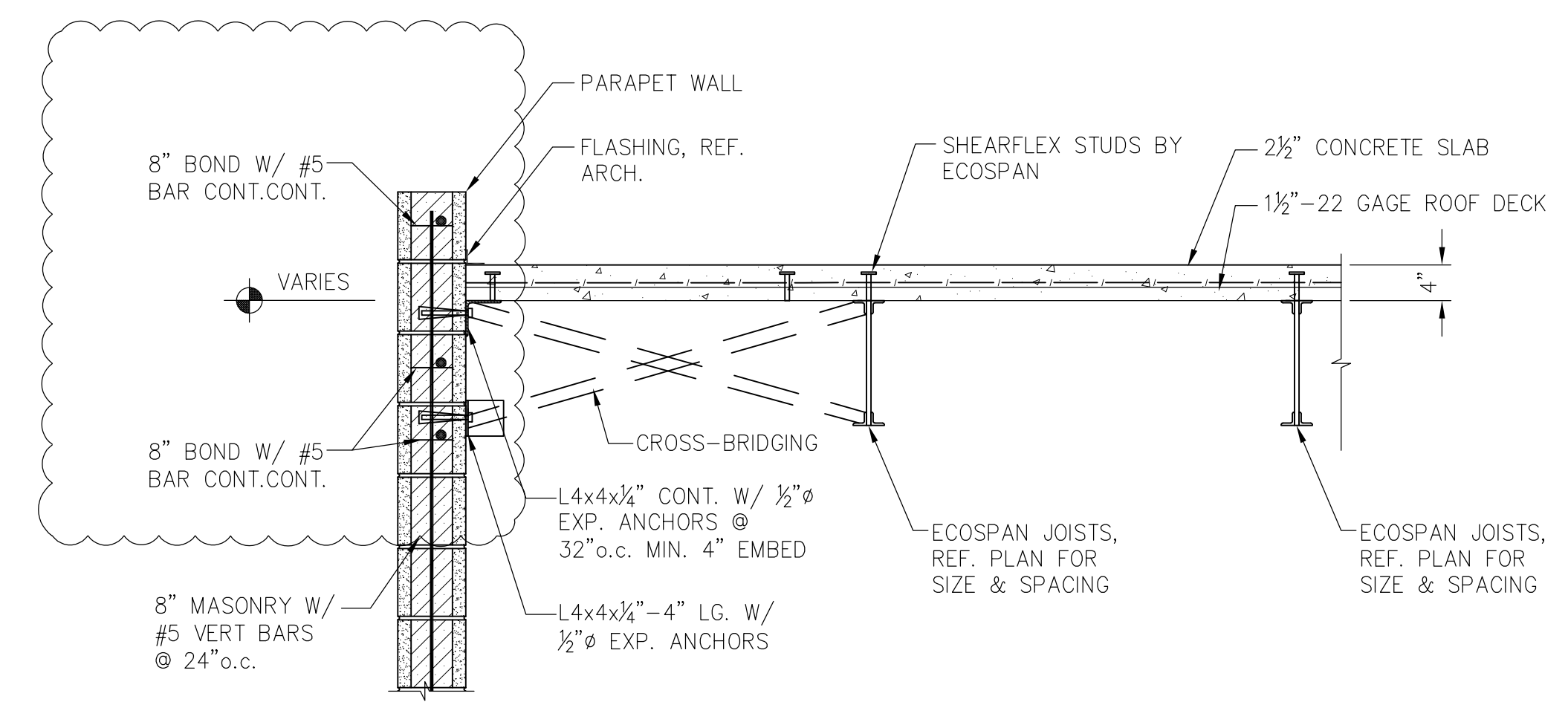
ROOF FRAMING
SECTION 1
SCALE: 3/4"=1'-0"
S4.0



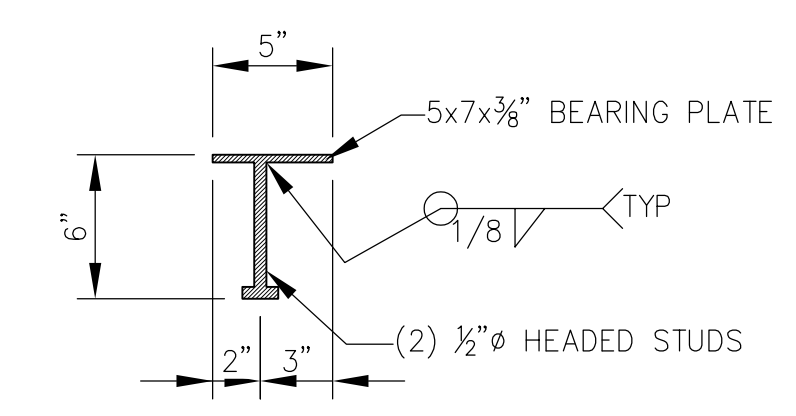
ROOF FRAMING
SECTION 2
SCALE: 3/4"=1'-0"
S4.0



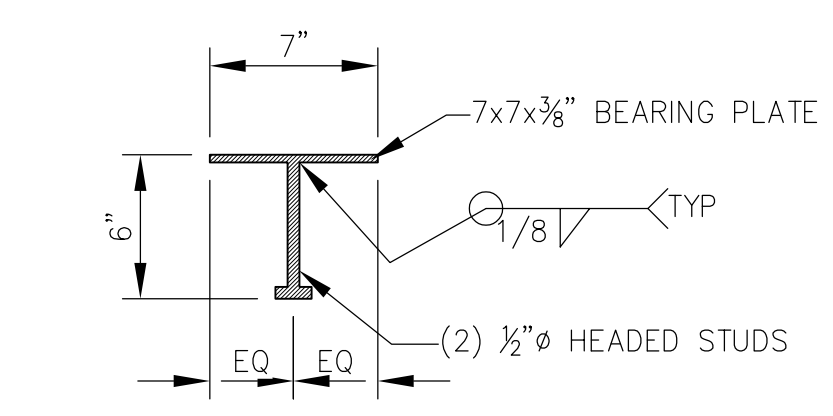
ROOF FRAMING
SECTION 3
SCALE: 3/4"=1'-0"
S4.0



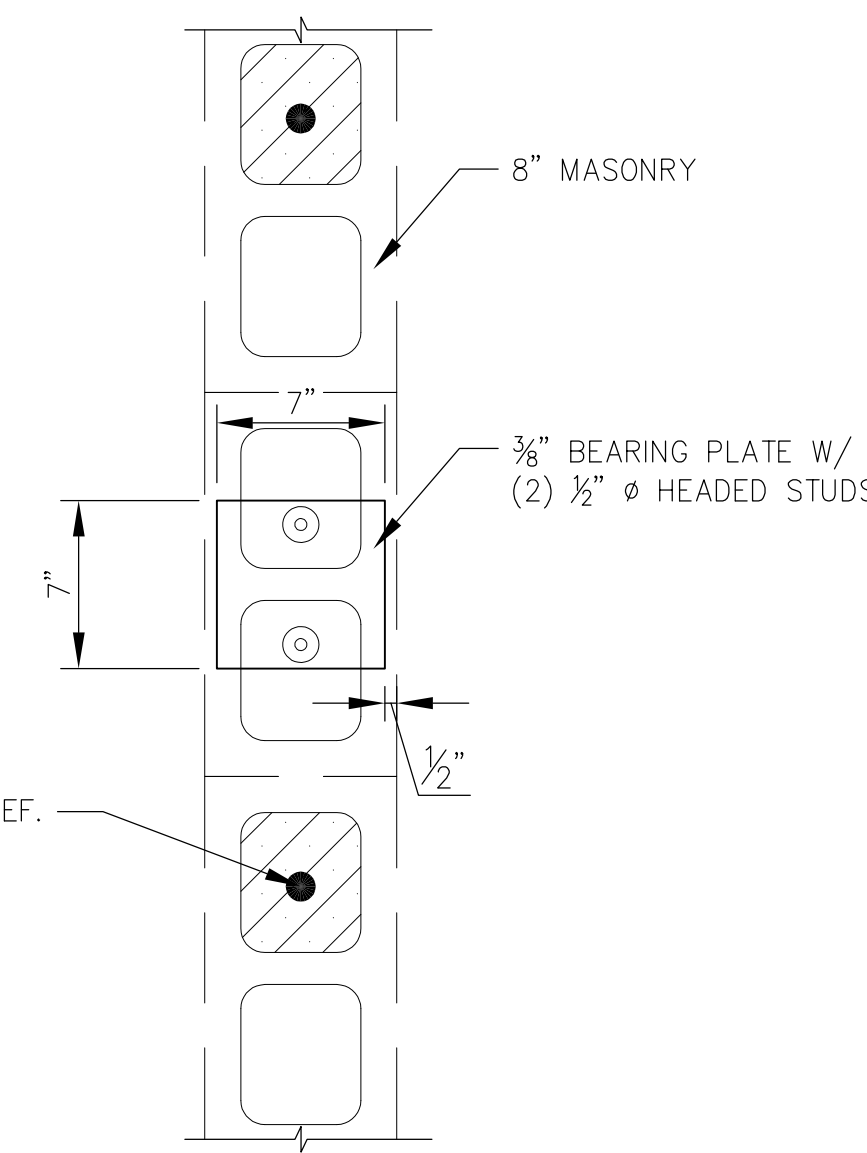
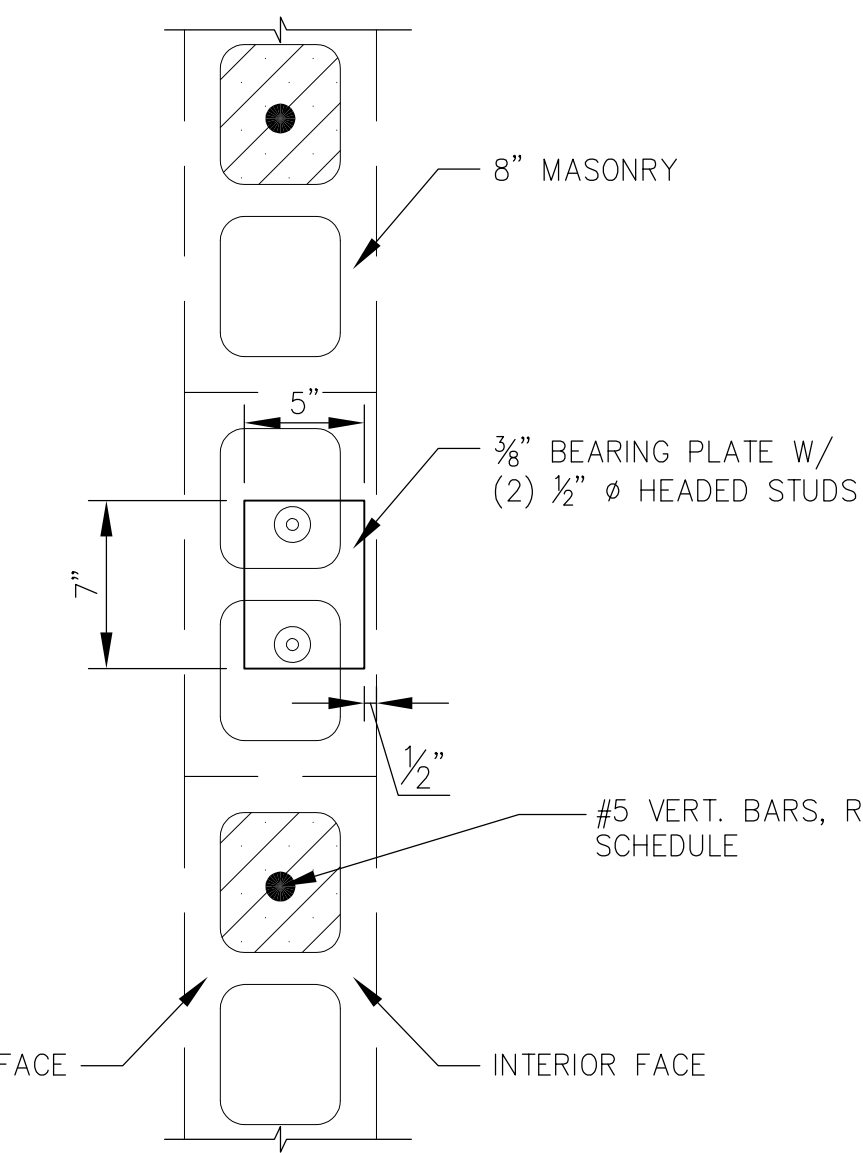
ROOF FRAMING @ GABLE END
SECTION 4
SCALE: 3/4"=1'-0"
S4.0



DETAIL 5
SCALE: 1 1/2"=1'-0"
S4.0



DETAIL 6
SCALE: 1 1/2"=1'-0"
S4.0





McColough ARCHITECTURE, INC.
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

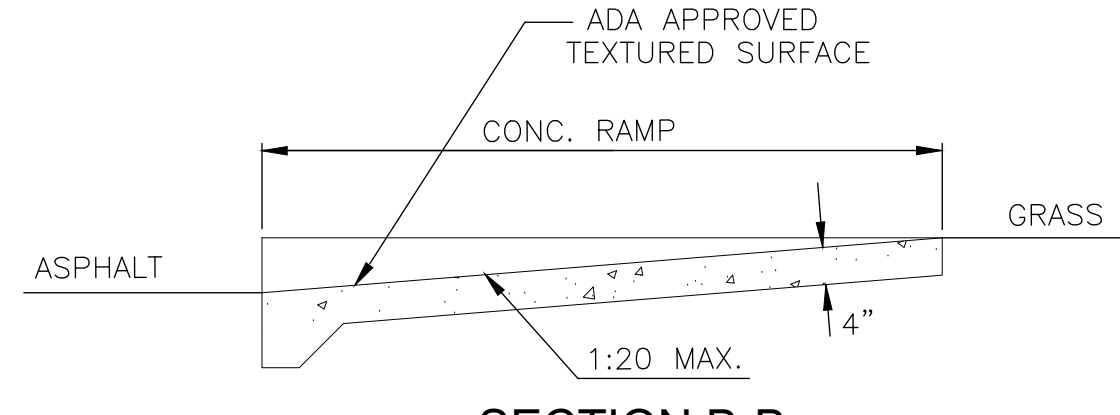
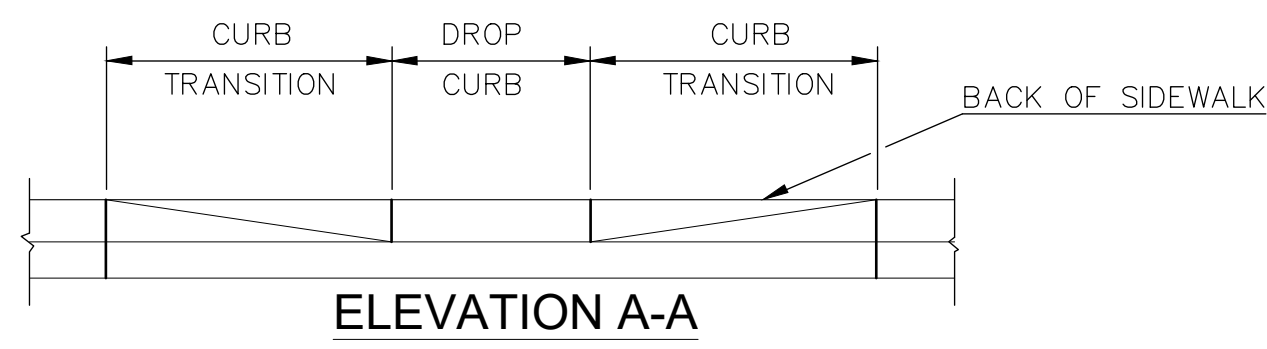
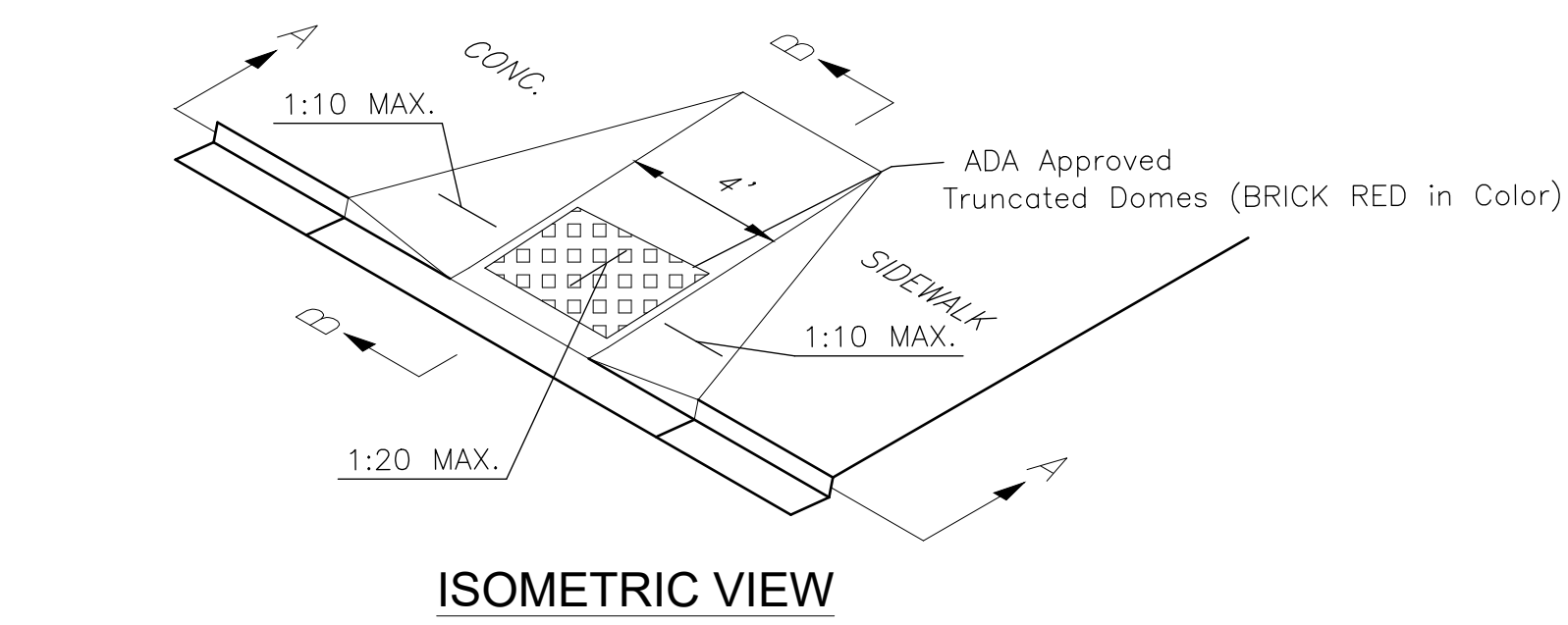
JOB NO.:
DRAWN: JAG
CHECKED: SBM
DATE: 2020.3.27
REVISION:
2019.12.18 STATE REVIEW COMMENTS

SCALE: 1" = 20'

SHEET NO.:

C1.0

SITE PLAN

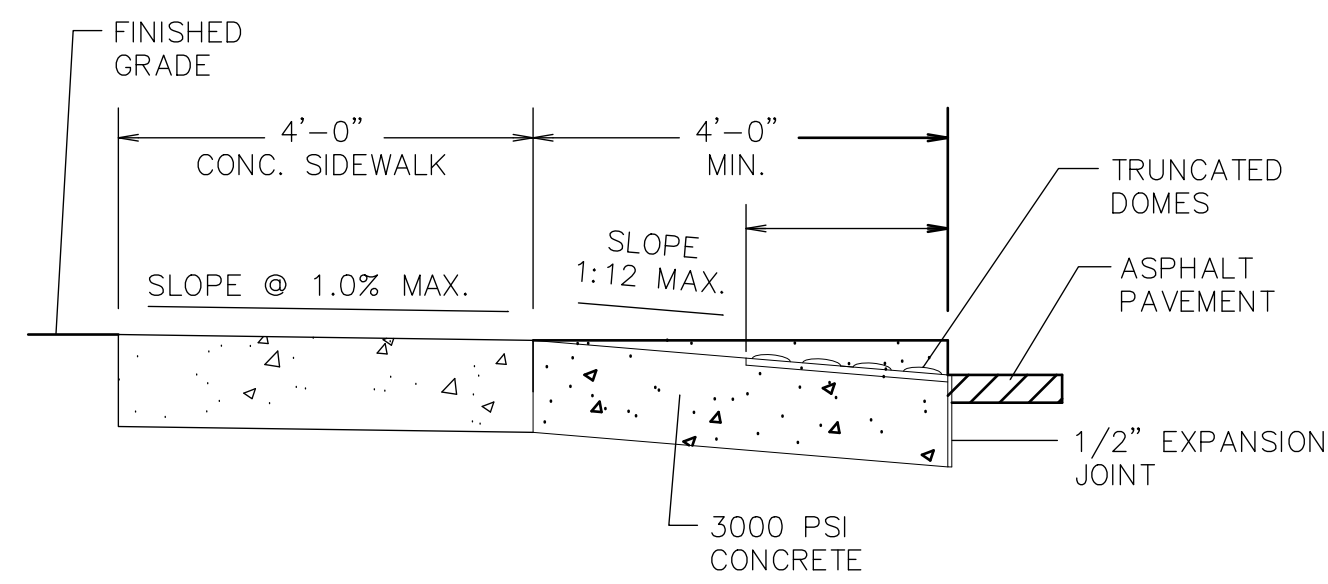


SIDEWALK HANDICAP RAMP

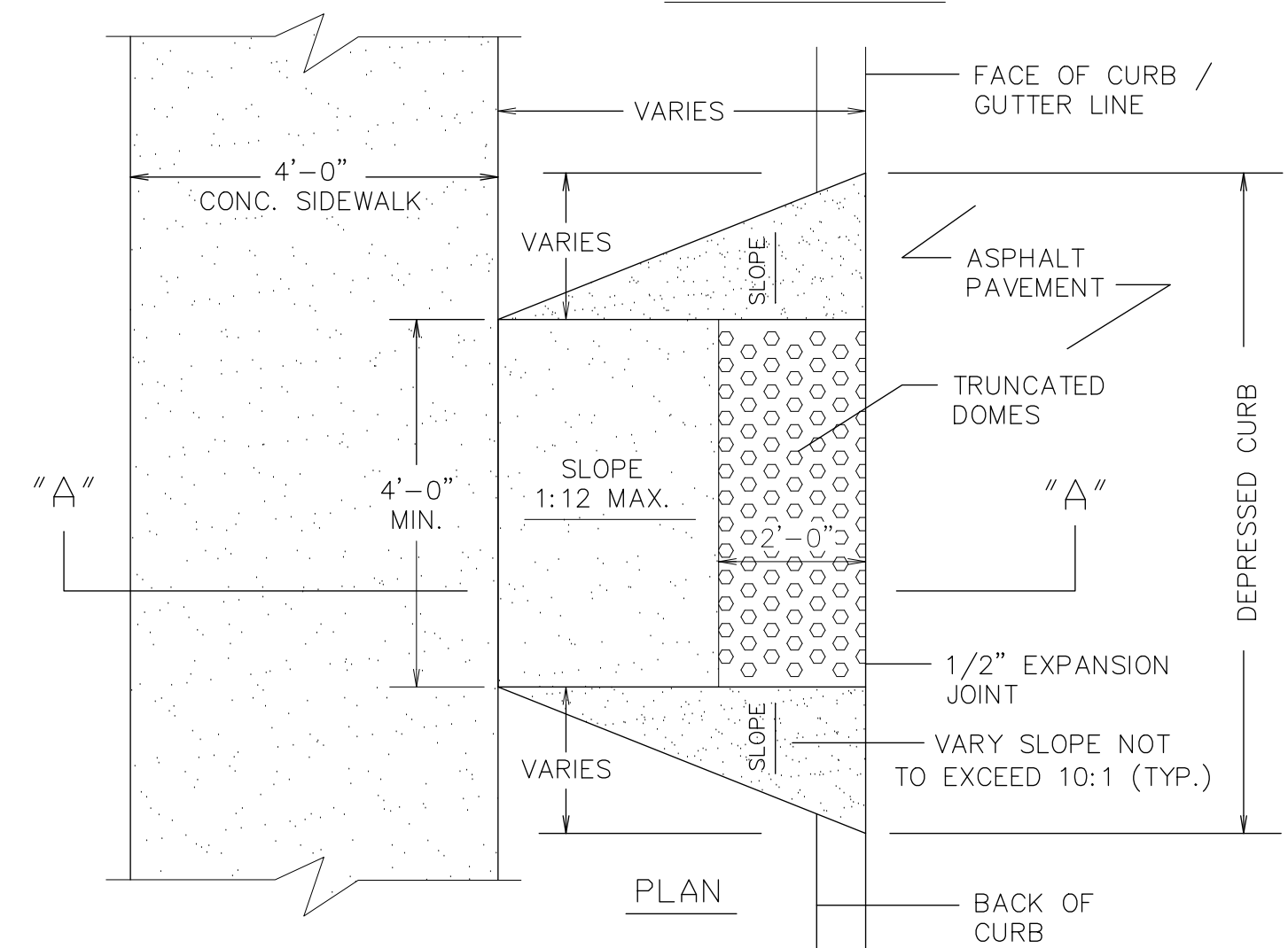
N.T.S.

NOTES:

- RAMPs ARE DESIGNED TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.
- RAMPs SHALL HAVE A TACTILE SURFACE, TEXTURED TO A DEPTH NOT EXCEEDING 1/8" BY USE OF TAMP OR ROLLER.



SECTION "A-A"



HANDICAPPED WHEELCHAIR RAMP DETAILS

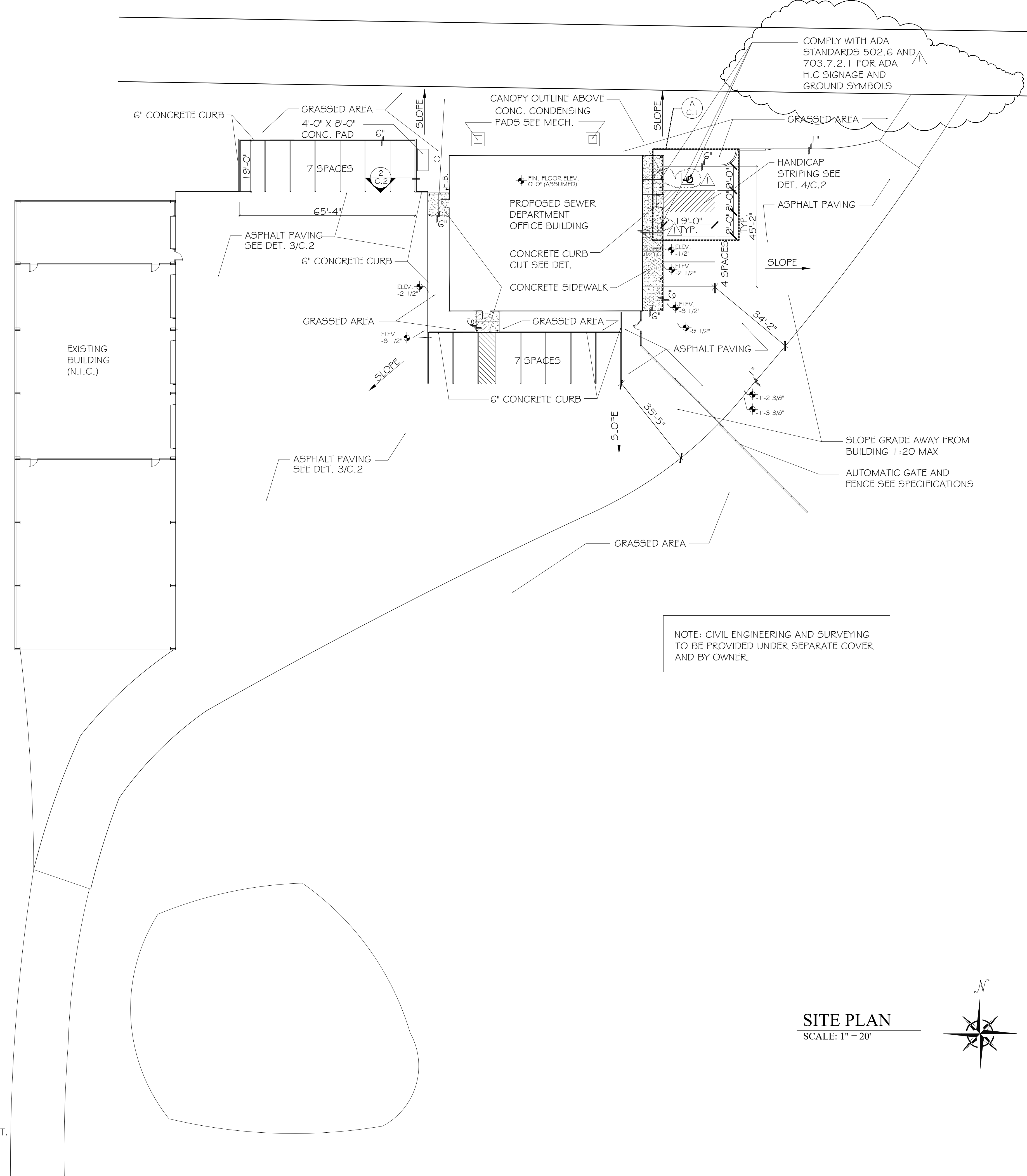
N.T.S.

NOTES:

- RAMPs ARE DESIGNED TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.
- RAMPs SHALL HAVE A TACTILE SURFACE, TEXTURED TO A DEPTH NOT EXCEEDING 1/8" BY USE OF TAMP OR ROLLER.
- SEE A.D.O.T. SPECIAL DRAWING NO. SW-618 FOR FUTHER DETAILS.

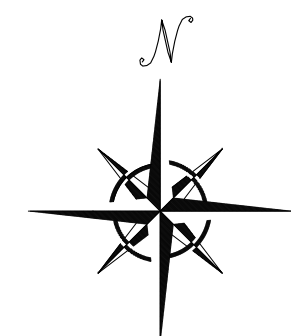


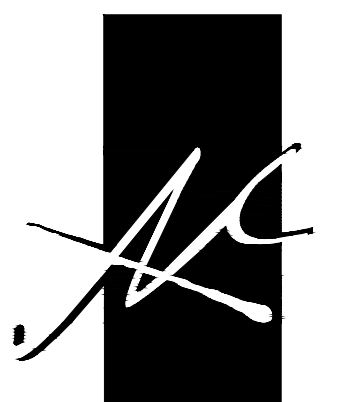
DETAIL SCALE: NONE



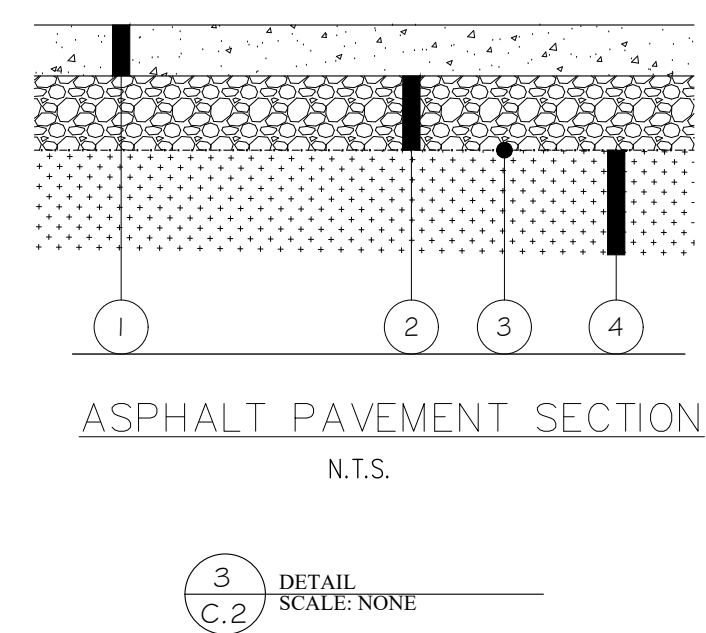
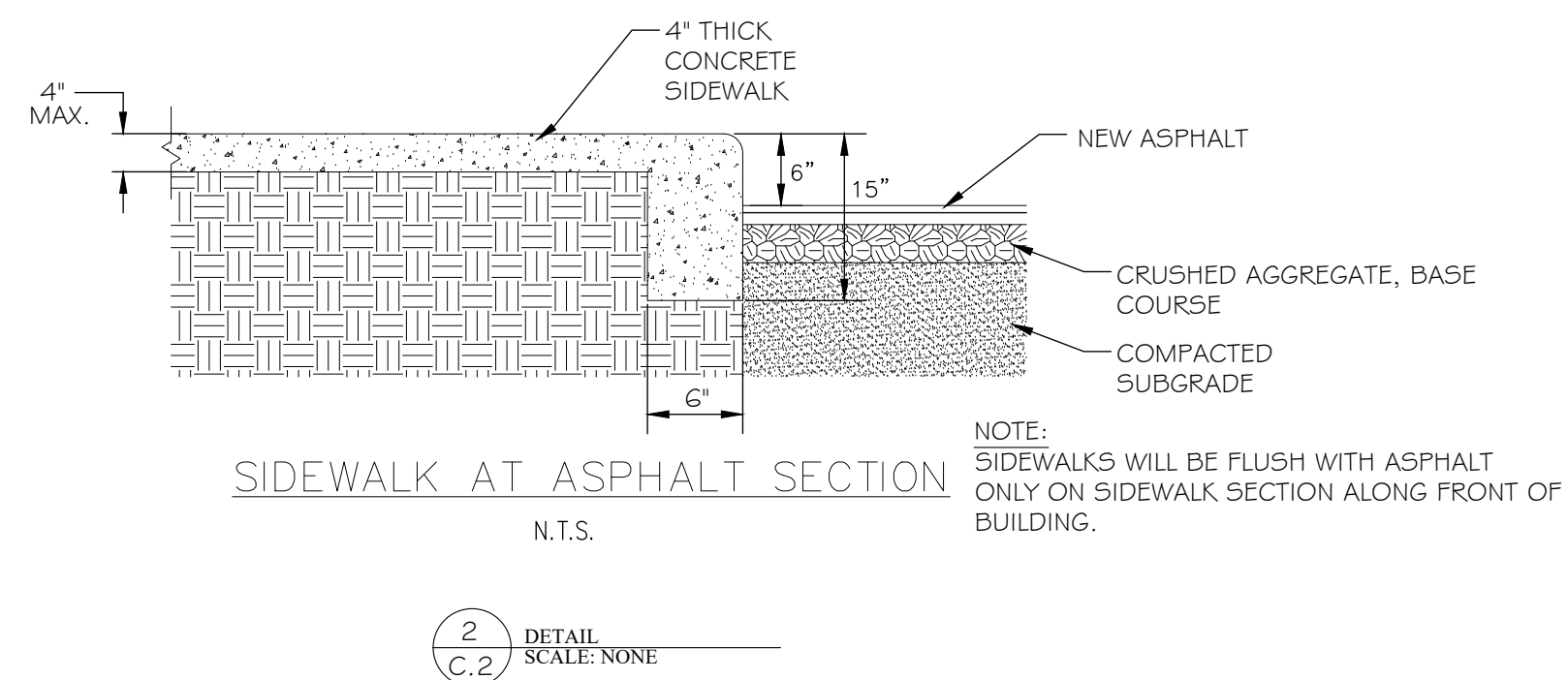
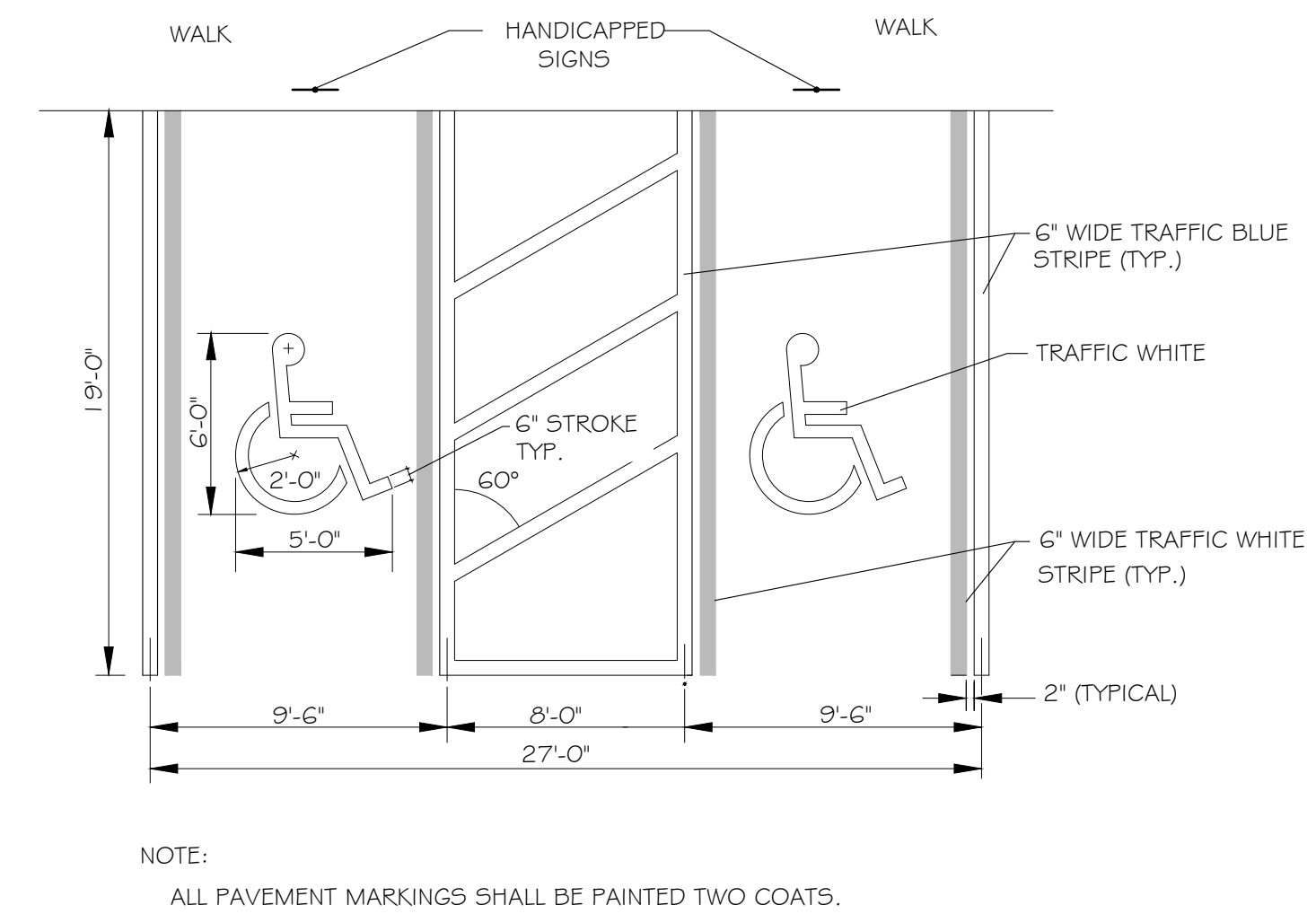
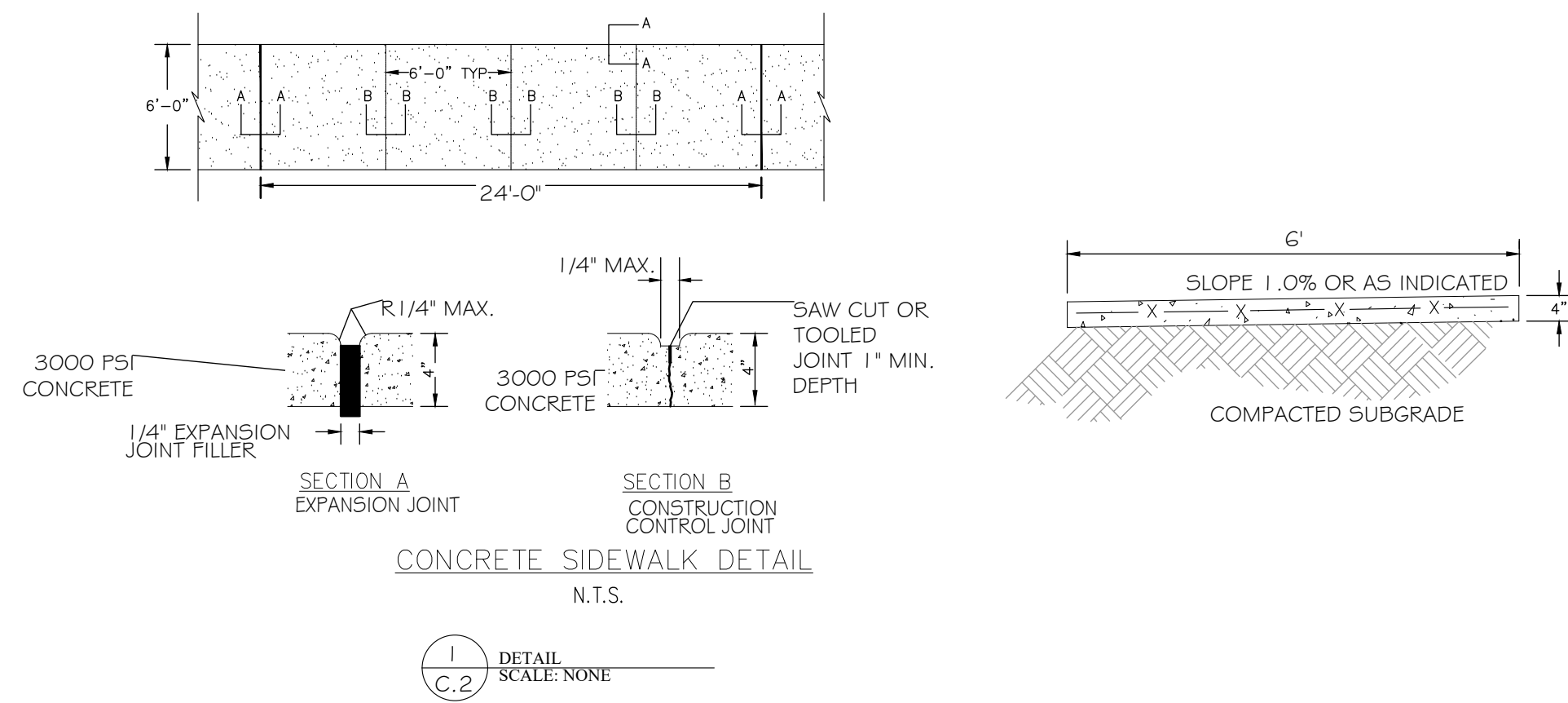
NOTE: CIVIL ENGINEERING AND SURVEYING TO BE PROVIDED UNDER SEPARATE COVER AND BY OWNER.

SITE PLAN
SCALE: 1" = 20'

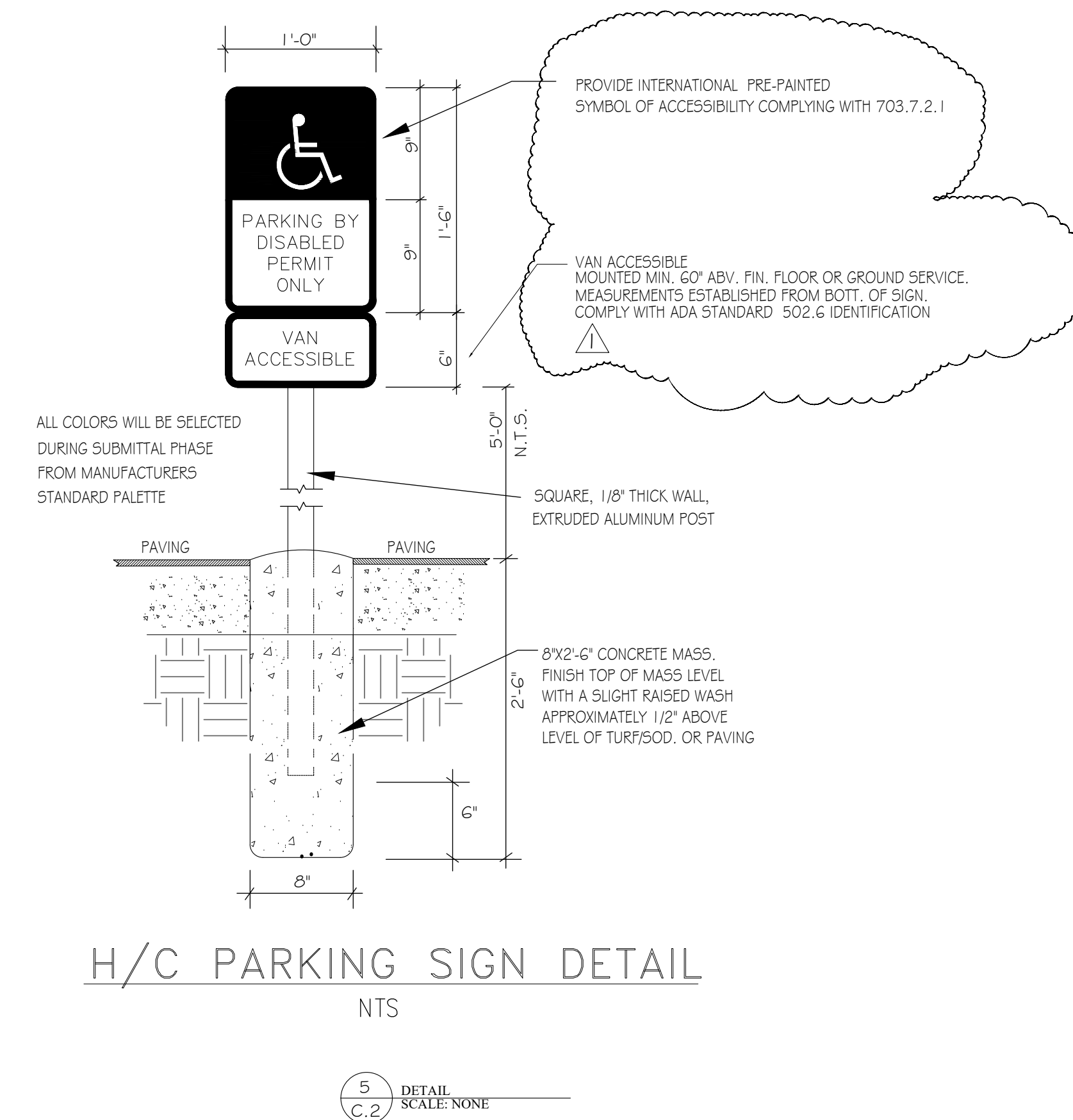




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1. 6" CONCRETE PAVEMENT (4,000 PSI COMPRESSIVE STRENGTH, 450 PSI FLEXURAL STRENGTH)
2. 6" ALDOT SECTION 825, CRUSHED AGGREGATE BASE COURSE, (COMPACTED TO 100% MAX. DENSITY)
3. SEPARATION FABRIC (TERRA TEX GS OR APPROVED EQUAL)
4. COMPACT NATIVE SUBGRADE OR STRUCTURAL FILL (TOP 12" COMPACTED TO 100% STANDARD DENSITY)



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ORANGE BEACH
ALABAMA

JOB NO.:
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REVISION:
2019.12.18 STATE REVIEW COMMENTS

SCALE: NONE

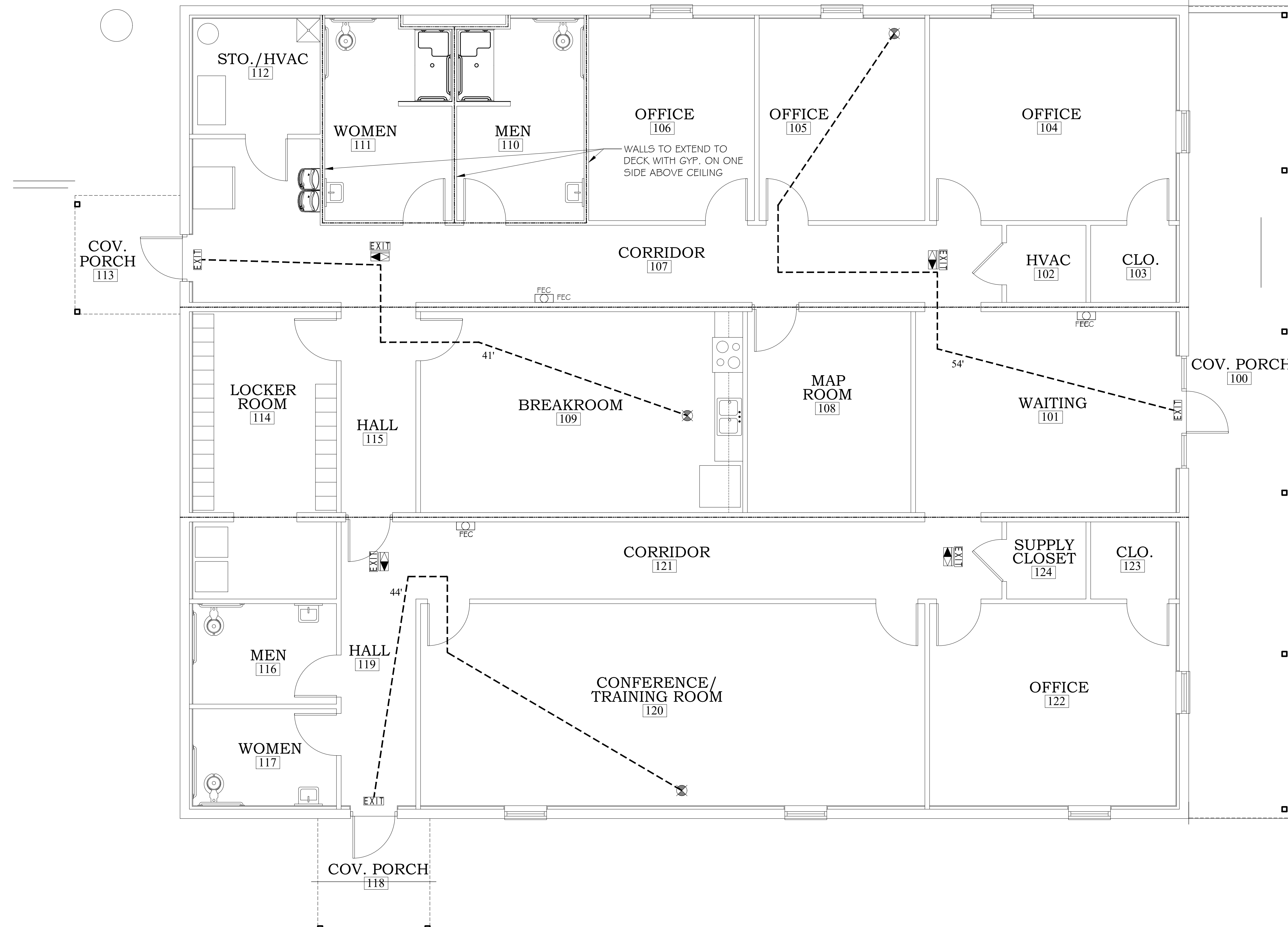
SHEET NO.:
C2.0
SITE PLAN DETAILS



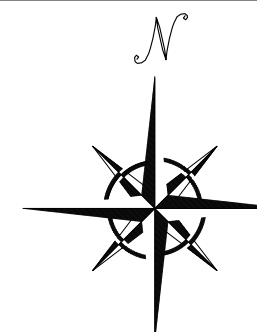
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**A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA**



LIFE SAFETY PLAN
SCALE: 1/4"=1'-0"



LEGEND	
	DISTANCE IN FEET EXIT TRAVEL DISTANCE
	EXIT SIGN
	DIRECTIONAL ARROW EXIT SIGN
	FIRE EXTINGUISHER (RECESS WHERE POSSIBLE) (SEE DETAILS A & B/A2.1)

BUILDING CODE SUMMARY

-2018 INTERNATIONAL BUILDING CODE	-2018 INTERNATIONAL FIRE CODE
-2018 INTERNATIONAL PLUMBING CODE	-2018 NATIONAL ELECTRICAL CODE.
-2018 INTERNATIONAL MECHANICAL CODE	-2018 INTERNATIONAL EXISTING BUILDING CODE
-AMERICANS WITH DISABILITIES ACT (AADAG)	-ICC/ANSI A117.1, 2009

PROJECT DATA

-CONSTRUCTION TYPE:	VB-UNSPRINKLERED
-OCCUPANCY:	BUSINESS
-STORIES/SQUARE FOOTAGE ALLOWED:	1 STORY/9,000 S.F.
-STORIES/SQUARE FOOTAGE ACTUAL:	1 STORY/4,176 S.F.
-OCCUPANT LOAD	4,176 SQ. FT./150 = 28 PEOPLE
-FIRE RATED WALLS	N/A
-REQUIRED EXIT TRAVEL DISTANCE	<200 FT.

FOOTNOTES:

JOB NO.:	
DRAWN:	JAG
CHECKED:	SBM
DATE:	2020.3.27
REVISION:	

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

SHEET NO.:

LS1.0

LIFE SAFETY PLAN

ACCESSIBLE NOTES:

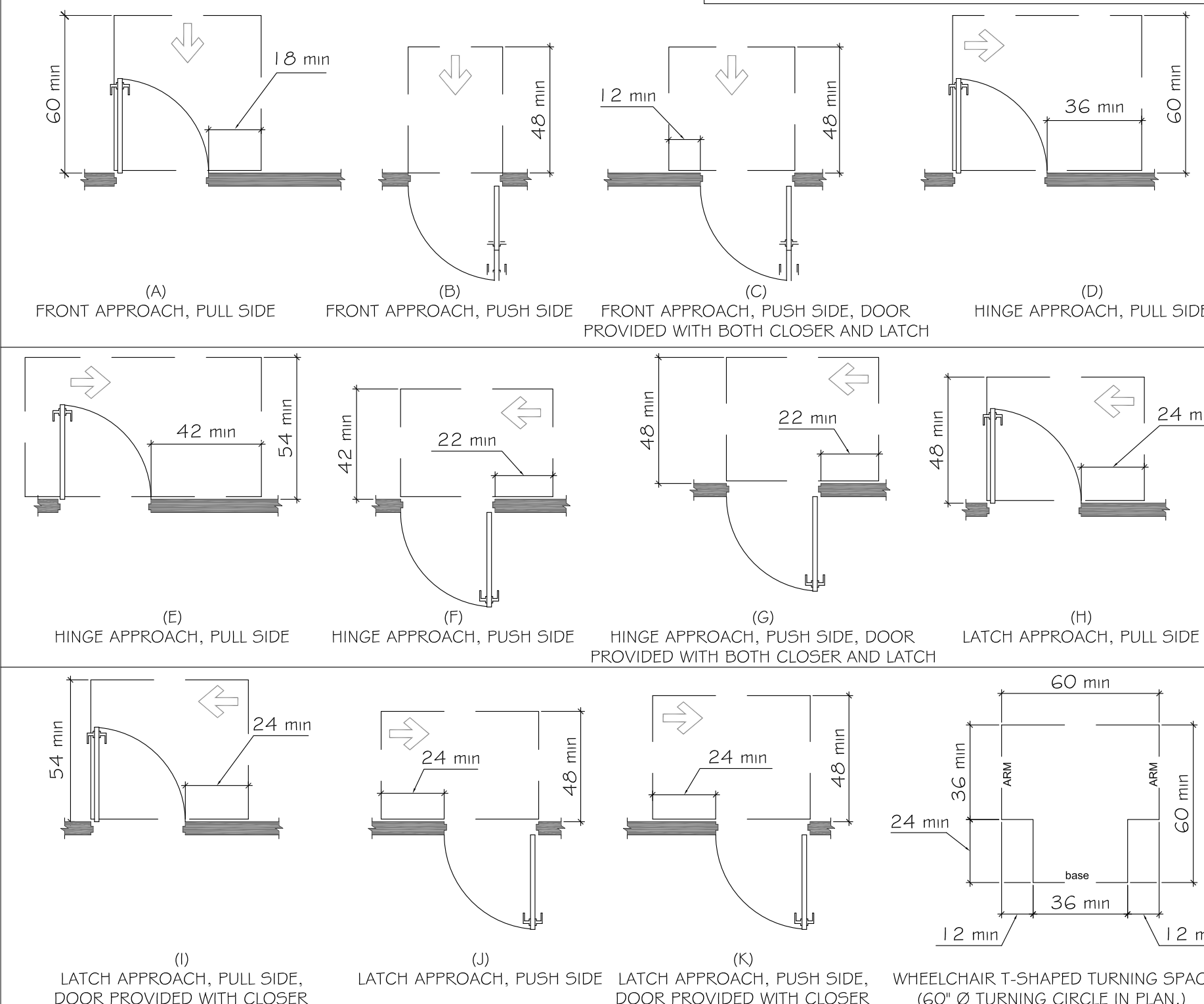
1/A1.0 ADA COMPLIANCE DOOR SWINGS AND CLEARANCES

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, FINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5# MAXIMUM.

404.2.7 DOOR & GATE HARDWARE. DOOR HARDWARE THAT CAN BE OPERATED WITH A CLOSED FIST OR A LOOSE GRIP ACCOMMODATES THE GREATEST RANGE OF USERS. HARDWARE THAT REQUIRES SIMULTANEOUS HAND AND FINGER MOVEMENTS REQUIRE GREATER DEXTERITY AND COORDINATION, AND IS NOT RECOMMENDED.

DOOR PULLS TO HAVE ACCESSIBLE LEVERS AND NOT TO EXCEED 5LBS. OF FORCE REQUIRED TO OPEN

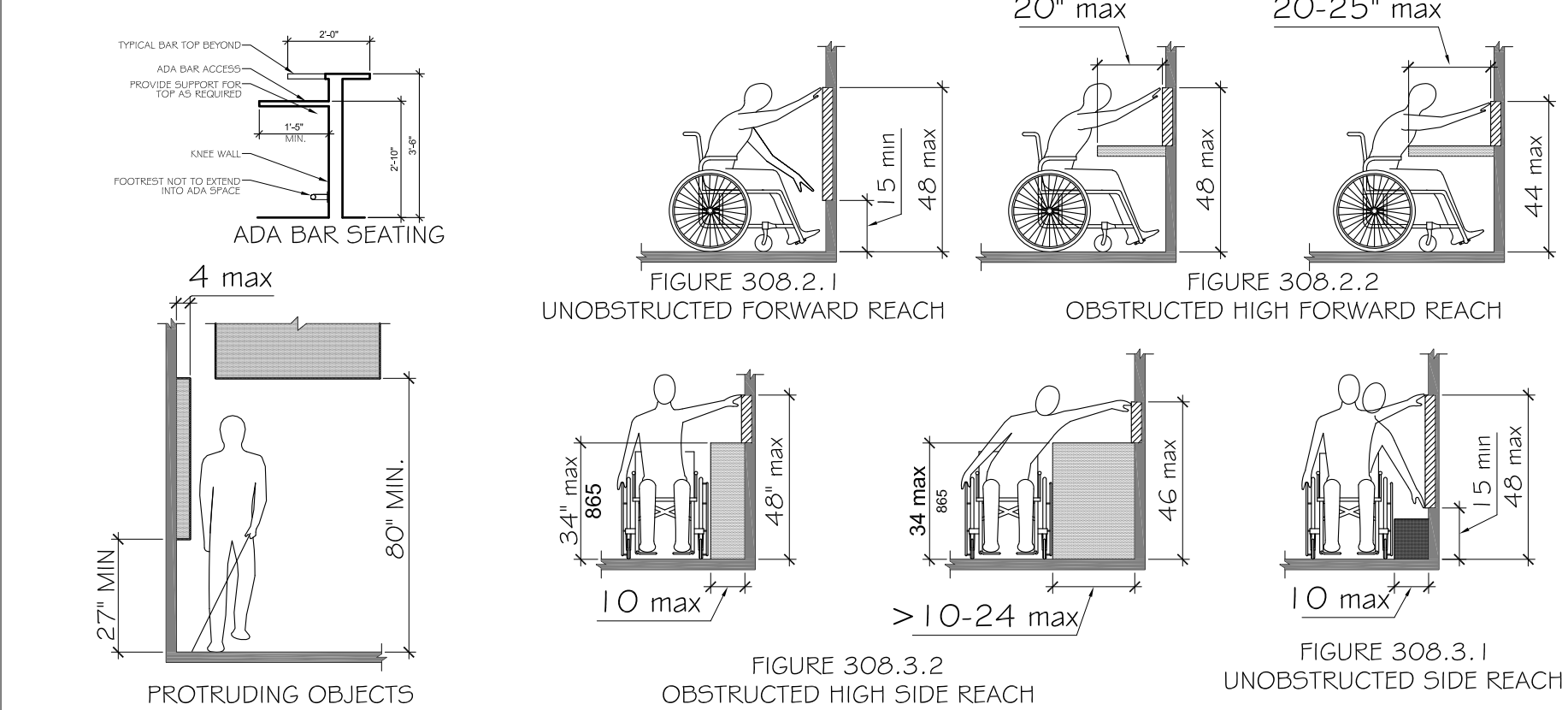
SEC. 404 : 2010 ADA STANDARDS



2/A1.0 REACH / PROTRUDING OBJECTS

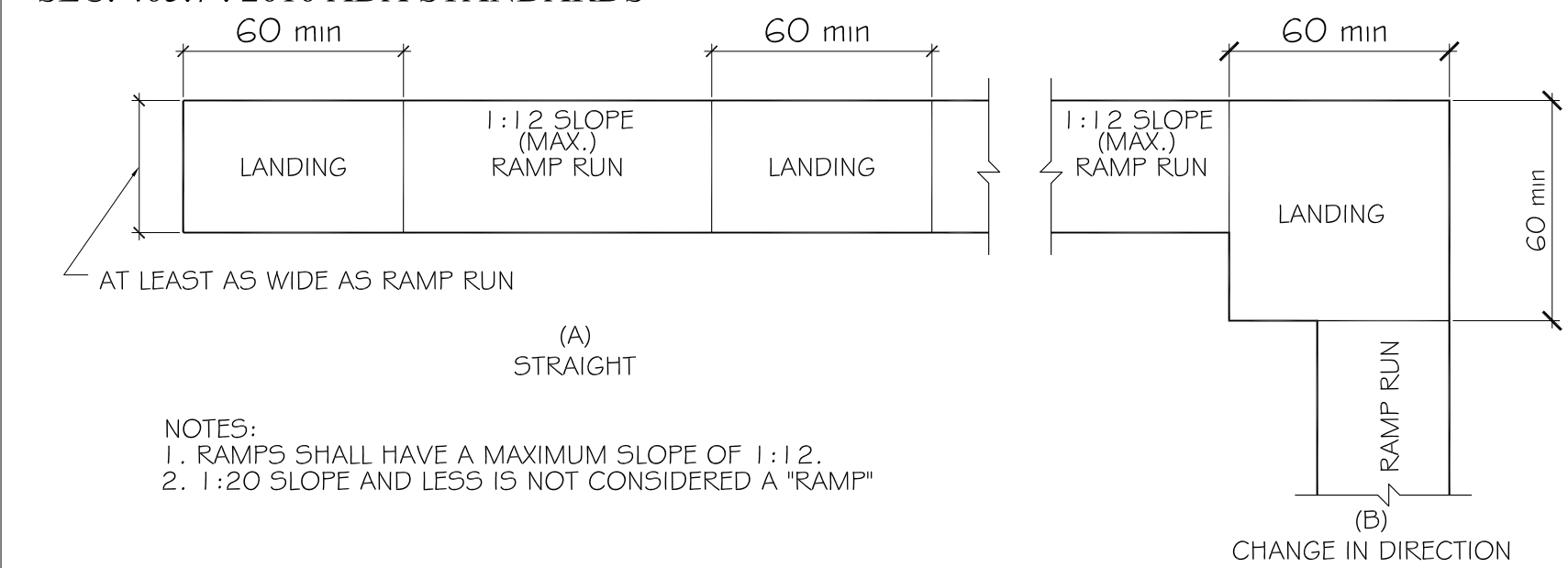
THE FOLLOWING DIAGRAMS SHALL BE TYPICAL FOR ALL ADA COMPLIANT CONDITIONS FOR MOUNTED OBJECTS: (INCLUDING BUT NOT LIMITED TO HAND DRYERS; SOAP DISPENSERS; AND PAPER TOWEL DISPENSERS)

SEC. 308 : 2010 ADA STANDARDS

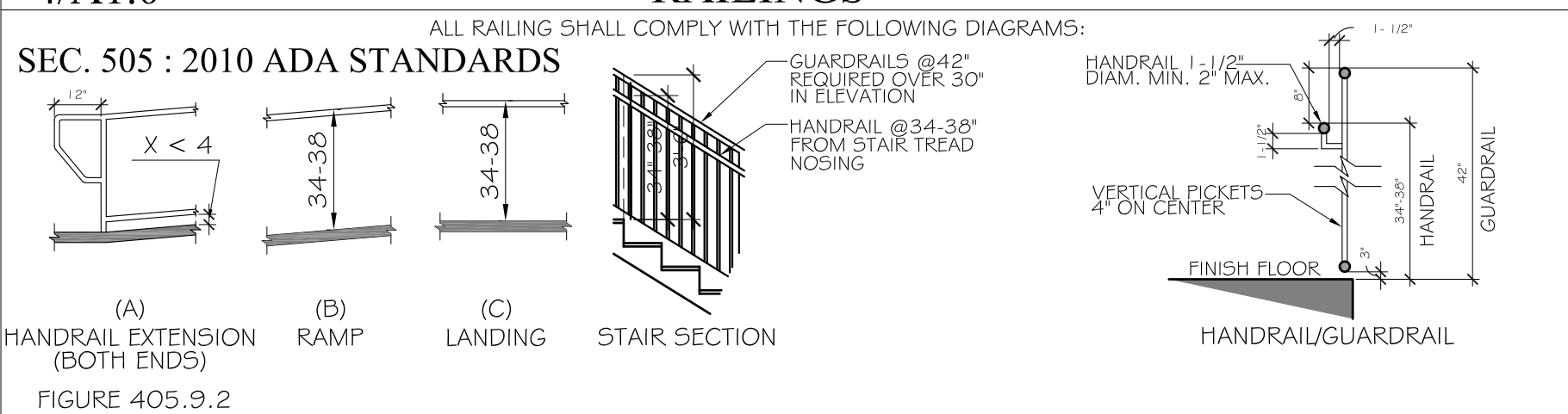


3/A1.0 ADA COMPLIANT RAMPS

SEC. 405.7 : 2010 ADA STANDARDS



4/A1.0 RAILINGS

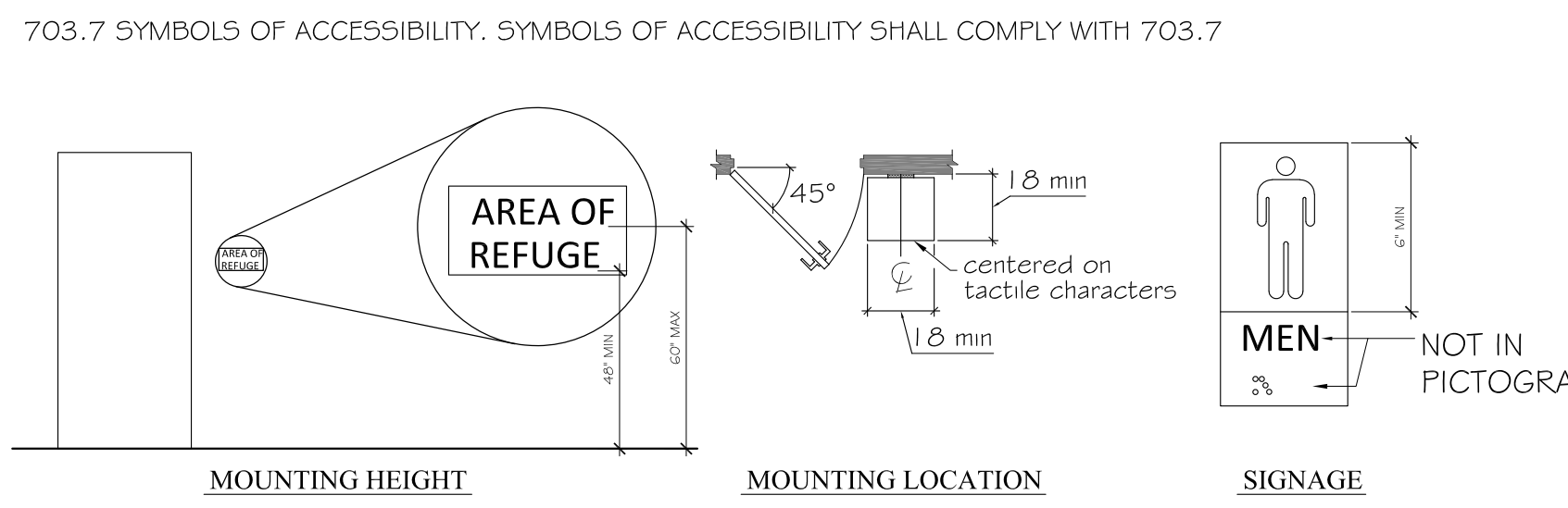


5/A1.0 COMMUNICATION ELEMENTS AND FEATURES

SEC. 703 : 2010 ADA STANDARDS

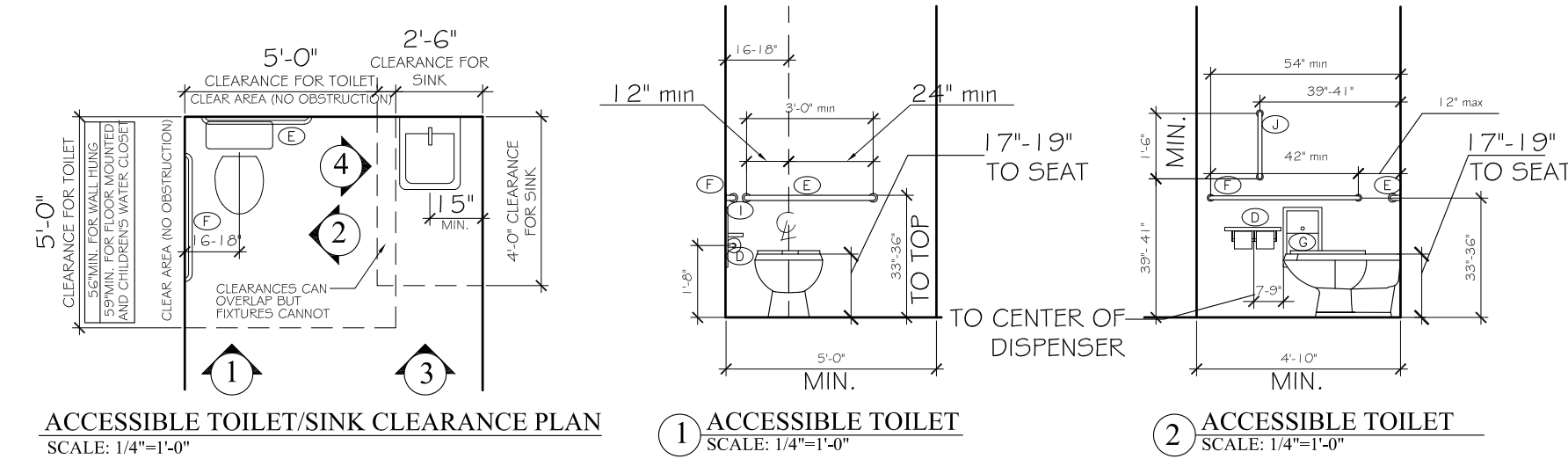
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7

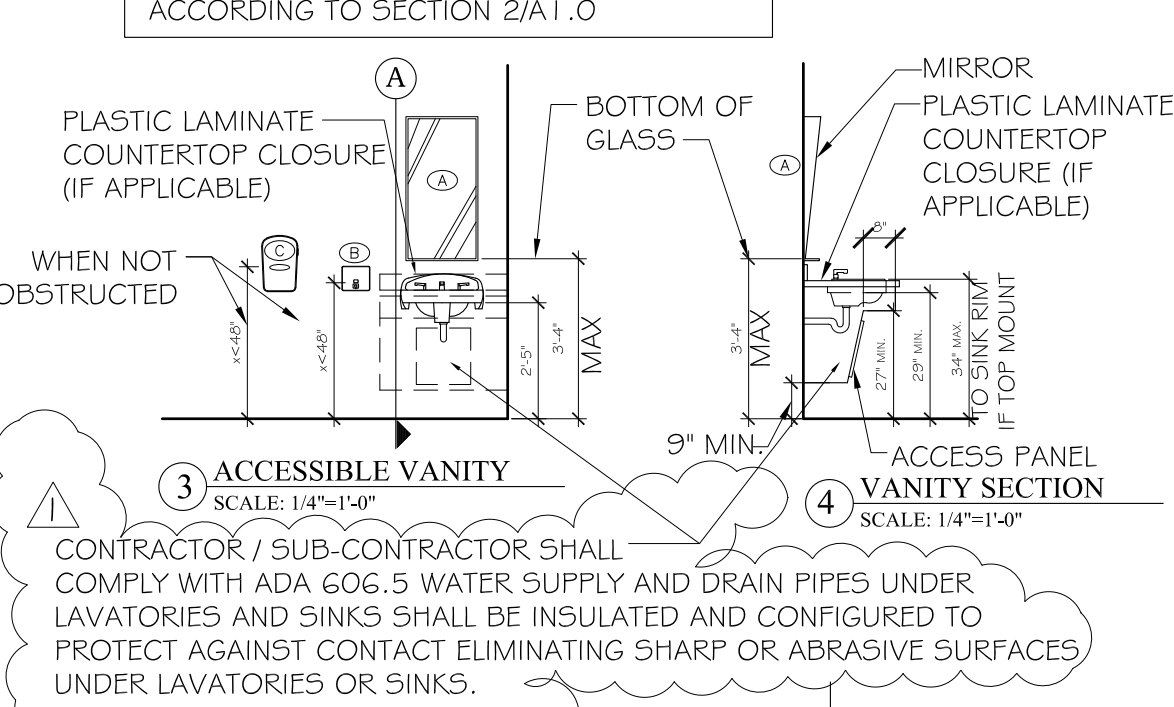


6/A1.0 ADA ACCESSIBLE BATHROOM FIXTURES/ACCESSORIES

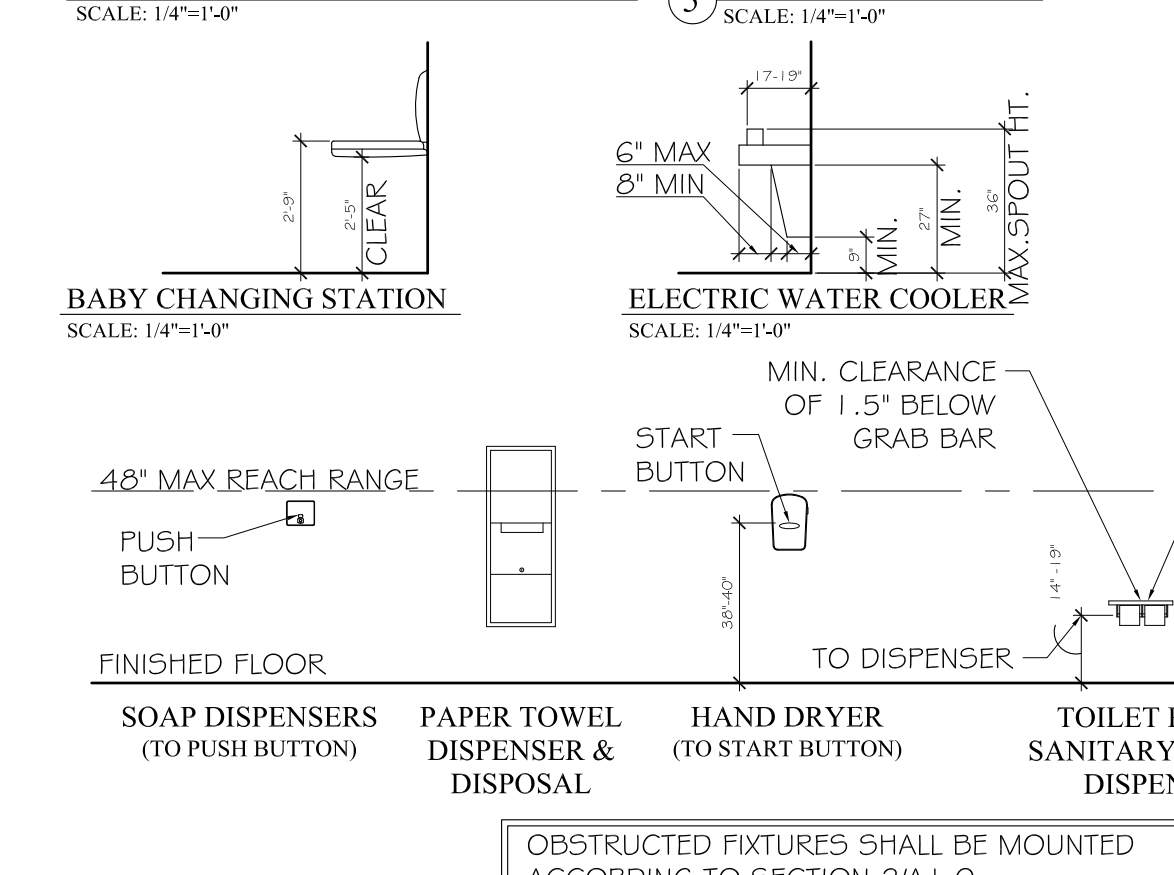
SEC. 604 : 2010 ADA STANDARDS



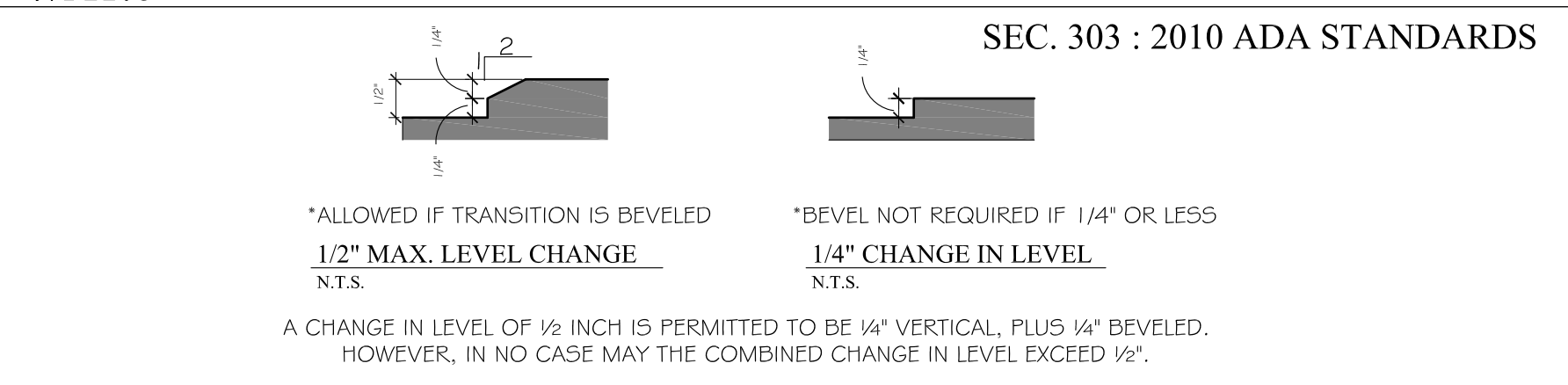
OBSTRUCTED FIXTURES SHALL BE MOUNTED ACCORDING TO SECTION 2/A1.0



CONTRACTOR / SUB-CONTRACTOR SHALL COMPLY WITH ADA 606.5 WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED AND CONFIGURED TO PROTECT AGAINST CONTACT ELIMINATING SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.



7/A1.0 THRESHOLD CONDITIONS



ABBREVIATION LEGEND

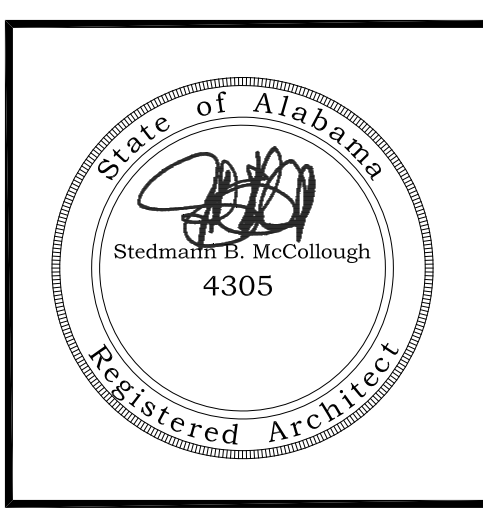
ABBREVIATION	TERM
ACC.	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
ASSEM.	ASSEMBLY
B.B.	BEAD BOARD
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
DIM	DIMENSION(S)
DW	DISHWASHER
ELEC.	ELECTRIC / ELECTRICAL
ELEV.	ELEVATOR
EQUIP.	EQUIPMENT
E.P.	EPOXY PAINT
EXT.	EXTERIOR
EW	ELECTRIC WATER COOLER
FEC	FIRE EXTINGUISHER CABINET
FG.	FIBERGLASS
FIN.	FINISH / FINISHED
FLR.	FLOOR
FRP	FIBER-REINFORCED PLASTIC
FT.	FOOT / FEET
GFI	GROUND FAULT INTERRUPTOR
GYP.BD.	GYP. BOARD
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
INT.	INTERIOR
JAN.	JANITOR
MAX	MAXIMUM
MECH.	MECHANICAL
MT.	METAL
MICRO.	MICROWAVE
MIN.	MINIMUM
M.R.	MOISTURE RESISTANT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PRE-FAB	PRE FABRICATED
PT.	PAINT / PAINTED
P.T.	PRESSURE TREATED
Q.T.	QUARRY TILE
REF.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
SC.	SOLID CORE
S.F.	SQUARE FOOT / FEET
SHWR.	SHOWER
S.S.	SCORED & STAINED
S/S	STAINLESS STEEL
ST.	STAINED
STOR.	STORAGE
TYP.	TYPICAL
UIC	UNDER COUNTER
VEND.	VENDING MACHINE
V.W.P.	VINYL WOOD PLANK
WD	WOOD
W	WITH
WD	WASHER DRYER
WO	WITH OUT

PLAN MARKER/TAG LEGEND

[30]	ROOM NUMBER
[24]	DOOR NUMBER
AG.1	INTERIOR ELEVATION
BB' A4.2	SECTION CUT LOCATION MARKER
A A2.5	DETAIL MARKER
INTERSECTS WALL REFERENCED	WALL TYPE MARKER
STOREFRONT TYPE	STOREFRONT TYPE
HEIGHT OF CEILING A.F.F.	ELEVATION MARKER
REVISION NUMBER	REVISION MARKER

GENERAL NOTES

- ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
- THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
- IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
- CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
- DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
- DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION
- PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
- ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
- PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
- NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
- ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
- THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY W/ OSHA REQUIREMENTS.
- ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.



ORANGE BEACH SEWER DEPT.
ORANGE BEACH ALABAMA

A NEW BUILDING FOR

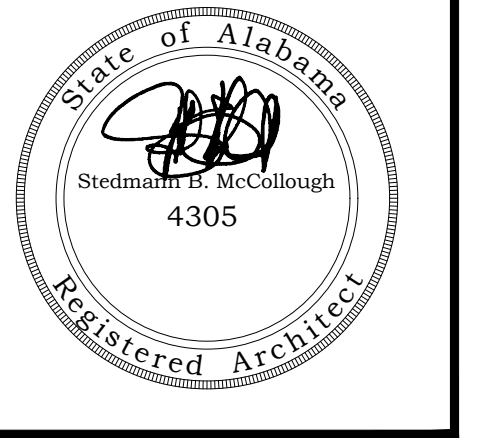
JOB NO.:
DRAWN: JAG
CHECKED: SBM
DATE: 2019.07.23
REVISION:
2019.12.18 STATE REVIEW COMMENTS

SCALE: AS NOTED

SHEET NO.:

A1.0
NOTES, LEGENDS & ADA DETAILS

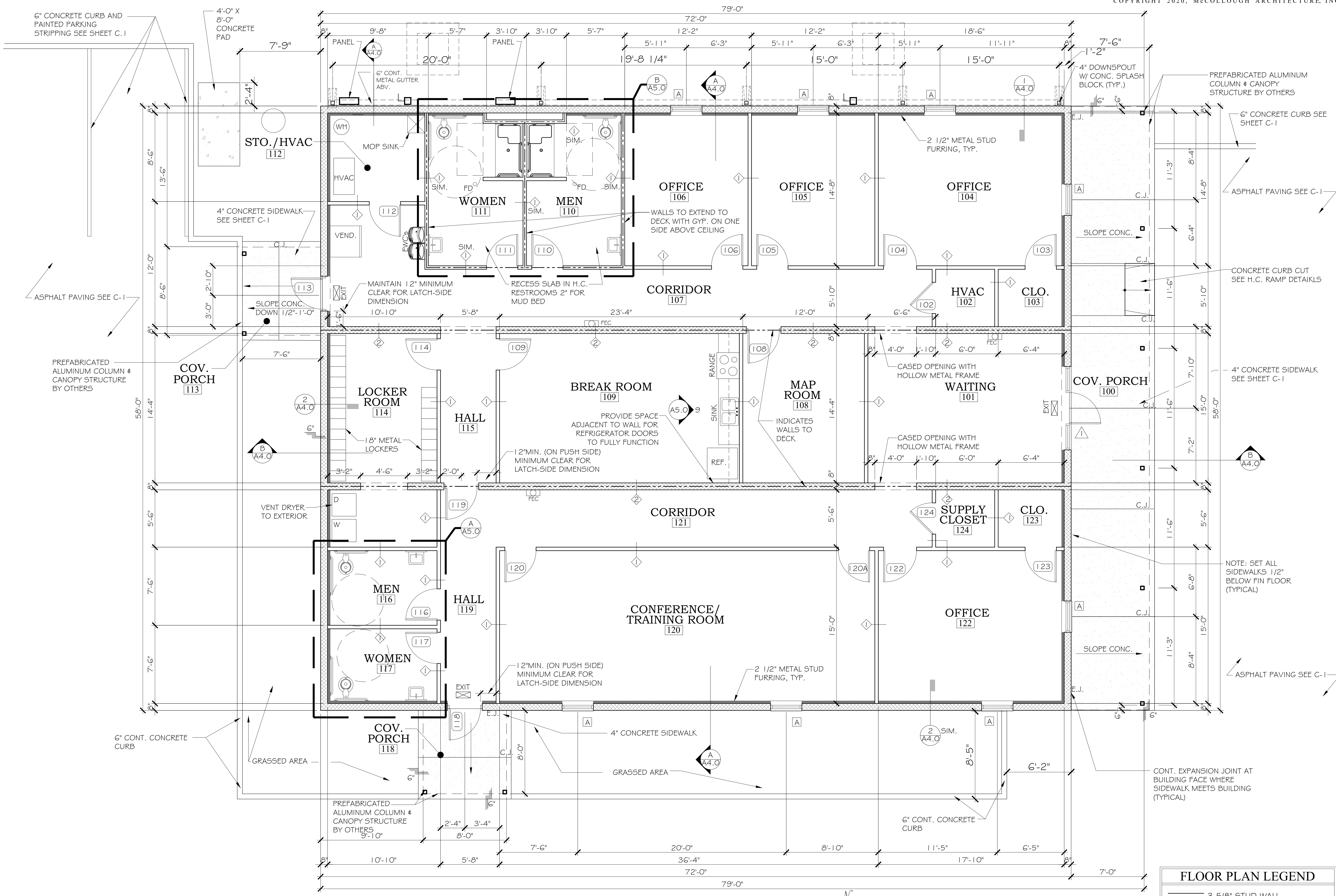
McColloUGH
ARCHITECTURE, INC.
 P.O. BOX 6310
 GULF SHORES, ALABAMA
 36547-6310
 PHONE: 251-968-7222



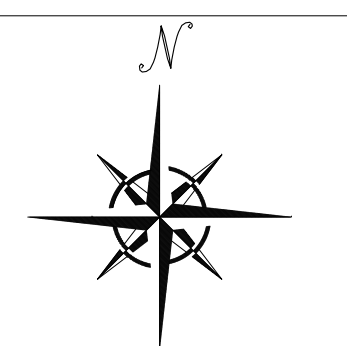
A NEW BUILDING
 FOR
ORANGE BEACH SEWER DEPT.
 ORANGE BEACH
 ALABAMA

JOB NO.:
 DRAWN: JAG
 CHECKED: SBM
 DATE: 2019.07.23
 REVISION:

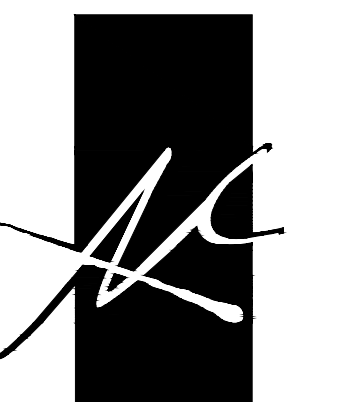
SCALE: 1/4" = 1'-0"
 SHEET NO.:
A1.1
 FLOOR PLAN



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



FLOOR PLAN LEGEND	
	3 5/8" STUD WALL
	EXTEND WALL TO DECK
	8" C.M.U. BLOCK WALL
	8" C.M.U. BLOCK WALL w/ 2 1/2" METAL STUD FURRING



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ORANGE BEACH
ALABAMA

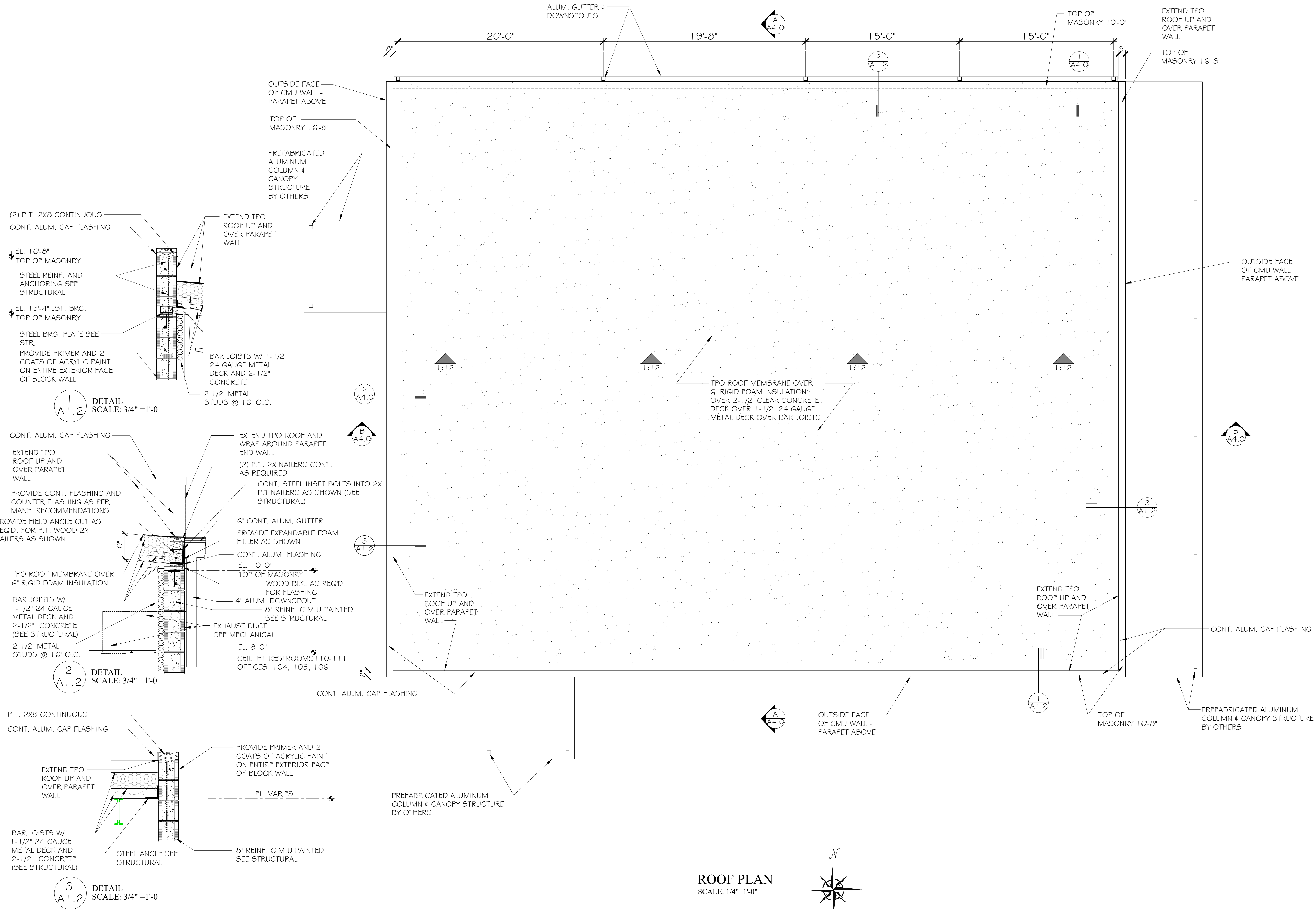
JOB NO.:
DRAWN: JAG
CHECKED: SBM
DATE: 2020.3.27
REVISION:

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

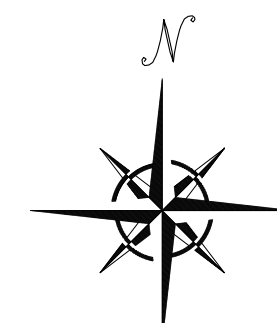
SHEET NO.:

A1.2

ROOF PLAN



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





**McColough
ARCHITECTURE, INC.**
P.O. BOX 6310
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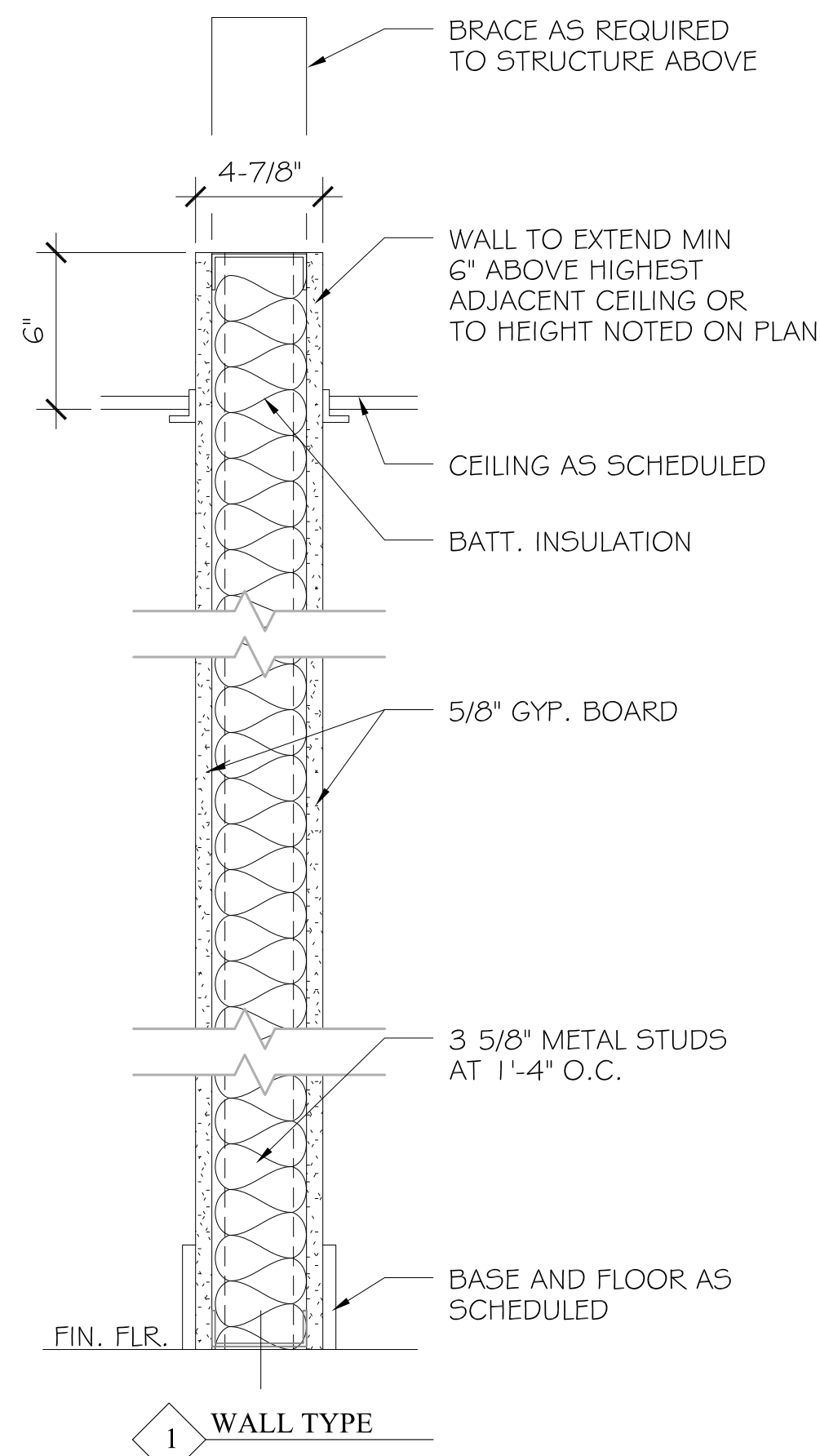


DOOR SCHEDULE										
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR CONSTRUCTION	DOOR FINISH	FRAME TYPE	RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
103	3'0" x 7'0"	A	WOOD	SOLID CORE	PAINT	1	-	-	-	
104	3'0" x 7'0"	A	WOOD	SOLID CORE	PAINT	1	-	-	-	
105	3'0" x 7'0"	A	WOOD	SOLID CORE	PAINT	1	-	-	-	
106	3'0" x 7'0"	A	WOOD	SOLID CORE	PAINT	1	-	-	-	
108	3'0" x 7'0"	A	WOOD	SOLID CORE	PAINT	2	-	-	-	
109	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	2	-	-	-	
110	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	YES	
111	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	YES	
112	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
113	3'0" x 7'0"	B	METAL	-	PAINT	2	-	-	YES	
114	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
116	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
117	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
118	3'0" x 7'0"	B	METAL	-	PAINT	2	-	-	YES	
119	3'0" x 7'0"	B	WOOD	SOLID CORE	STAIN	1	-	-	-	
120	3'0" x 7'0"	B	WOOD	SOLID CORE	STAIN	1	-	-	-	
120A	3'0" x 7'0"	B	WOOD	SOLID CORE	STAIN	1	-	-	-	
122	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
123	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	
124	3'0" x 7'0"	A	WOOD	SOLID CORE	STAIN	1	-	-	-	

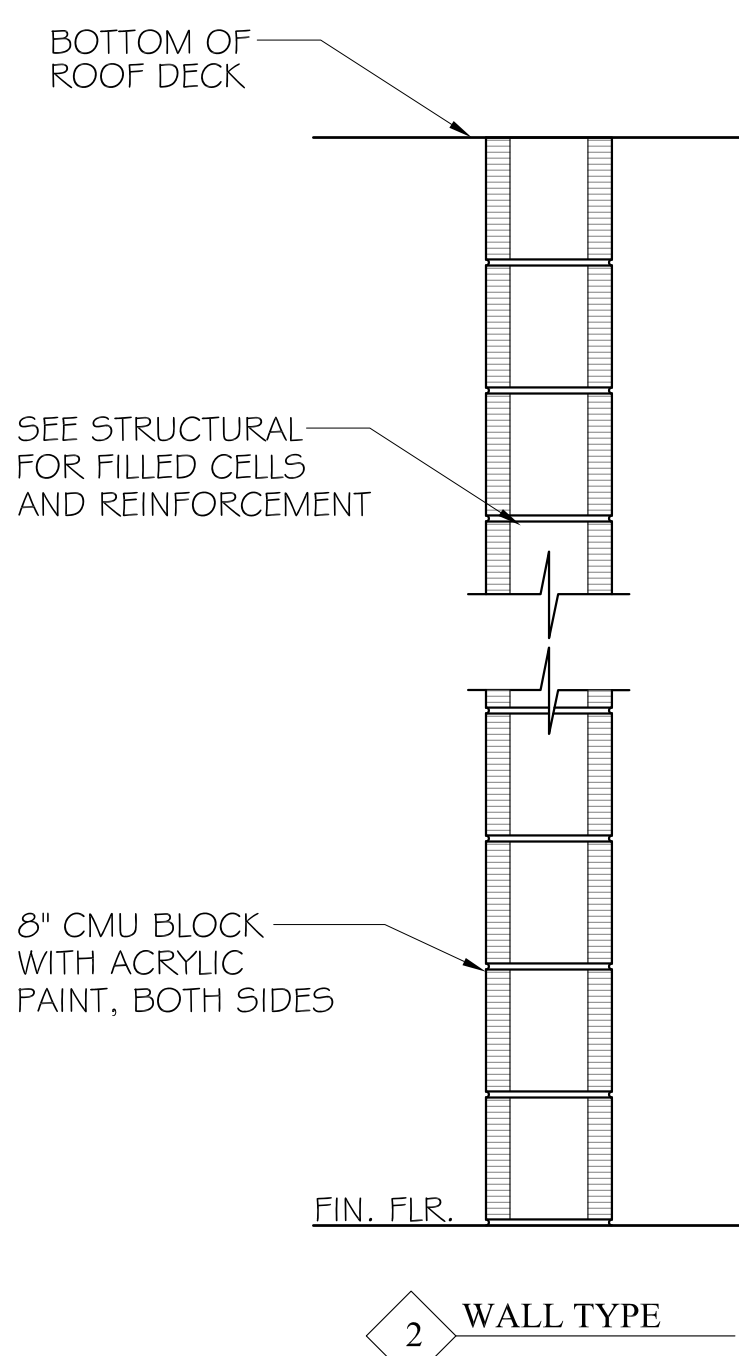
ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOORS			WALLS		CEILING			REMARKS
		FLOOR	BASE	FINISH	MATERIALS	FINISH	MATERIAL	FINISH	CROWN	
100	COVERED PORCH	CONC.	-	SEALED	CMU	PAINT	-	-	-	
101	WAITING	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
102	HVAC	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	-	-	-	
103	CLOSET	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
104	OFFICE	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
105	OFFICE	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
106	OFFICE	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
107	CORRIDOR	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
108	MAP ROOM	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
109	BREAK ROOM	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
110	MEN	CERAMIC TILE	CT	PRE-FIN	M.R. GYP. BOARD	PAINT	* A.C.T.	-	-	VINYL FACED
111	WOMEN	CERAMIC TILE	CT	PRE-FIN	M.R. GYP. BOARD	PAINT	* A.C.T.	-	-	VINYL FACED
112	STORAGE/HVAC	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	-	-	-	
113	COVERED PORCH	CONC.	-	SEALED	CMU	PAINT	-	-	-	
114	LOCKER ROOM	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
115	HALL	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
116	MEN	TILE	RB	PRE-FIN	M.R. GYP. BOARD	PAINT	* A.C.T.	-	-	VINYL FACED
117	WOMEN	TILE	RB	PRE-FIN	M.R. GYP. BOARD	PAINT	* A.C.T.	-	-	VINYL FACED
118	COVERED PORCH	CONC.	-	SEALED	CMU	PAINT	-	-	-	
119	HALL	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
120	CONF./TRAINING ROOM	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
121	CORRIDOR	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
122	OFFICE	VCT	RB	PRE-FIN	GYP. BOARD	PAINT	A.C.T.	-	-	
123	CLOSET	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	
124	SUPPLY CLOSET	VCT	RB	PRE-FIN	GYP. BOARD/CMU	PAINT	A.C.T.	-	-	

ABBREVIATIONS
 GYP. BOARD = GYPSUM BOARD
 VCT = VINYL COMPOSITION TILE
 M.R. GYP. BD. = MOISTURE RESISTANT GYPSUM BOARD
 CMU = CONCRETE MASONRY UNIT
 RB = RUBBER BASE
 A.C.T. = ACOUSTICAL CEILING TILE
 CT = CERAMIC TILE

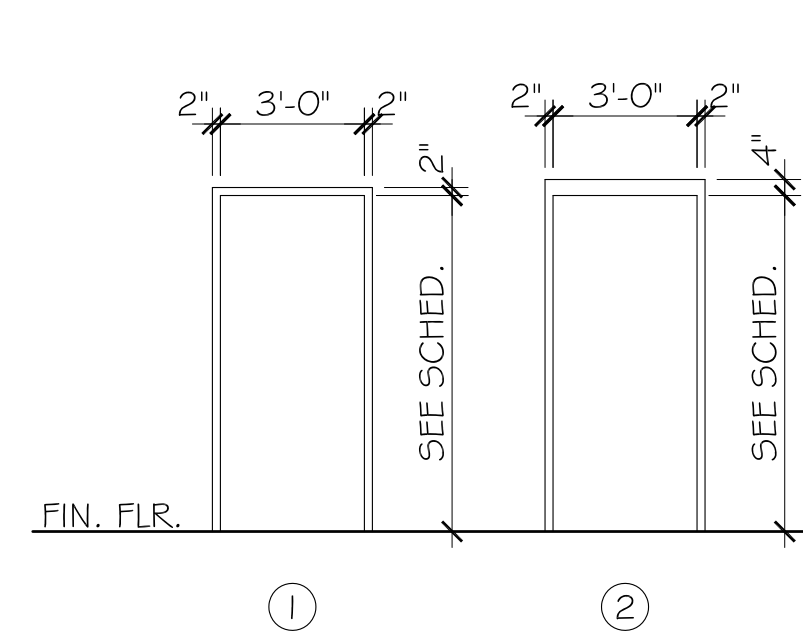
REMARKS
 NOTES:
 -FINAL SELECTION OF ALL MATERIALS TO BE DETERMINED BY OWNER.
 -ALL EXPOSED INTERIOR CMU WALLS TO BE PAINTED WITH ACRYLIC PAINT.



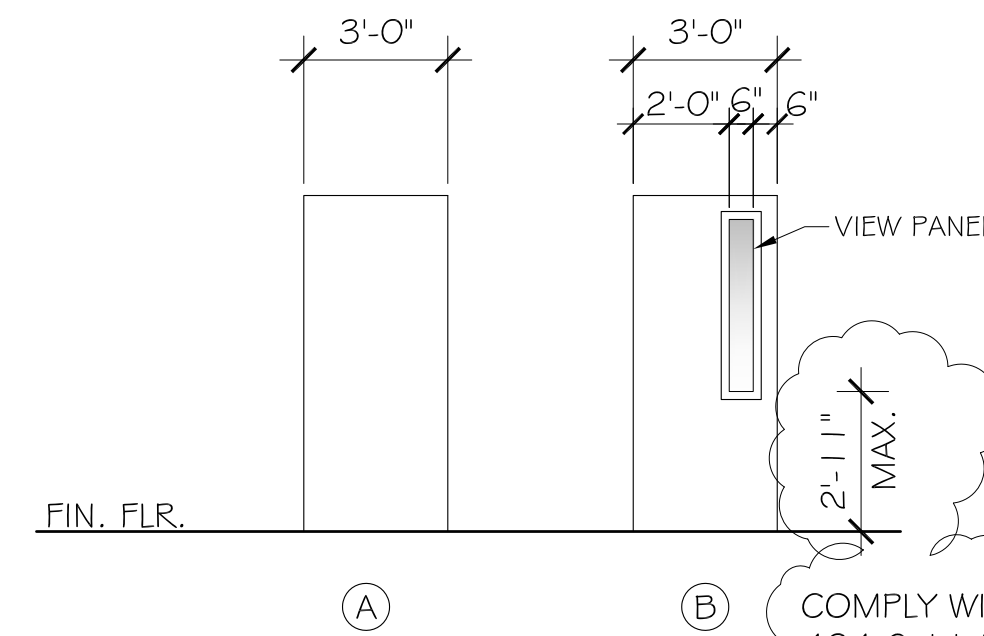
WALL TYPES
SCALE: NTS



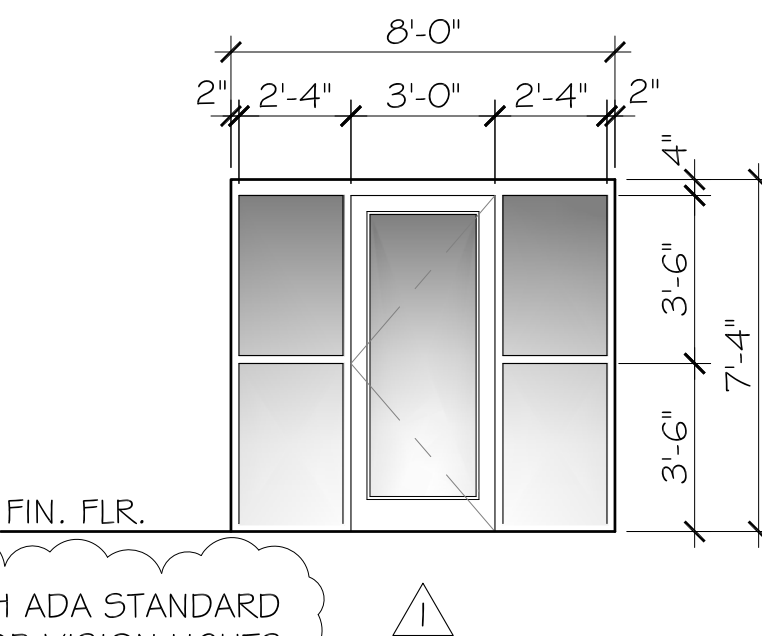
WALL TYPE



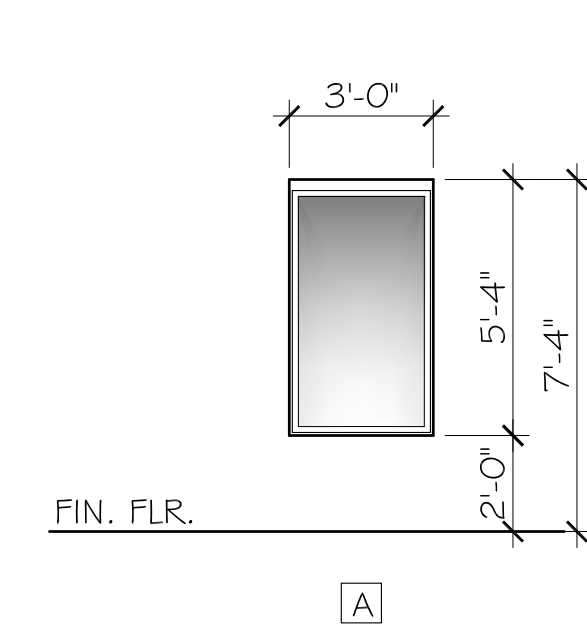
FRAME TYPES
SCALE: 1/4"=1'-0"



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



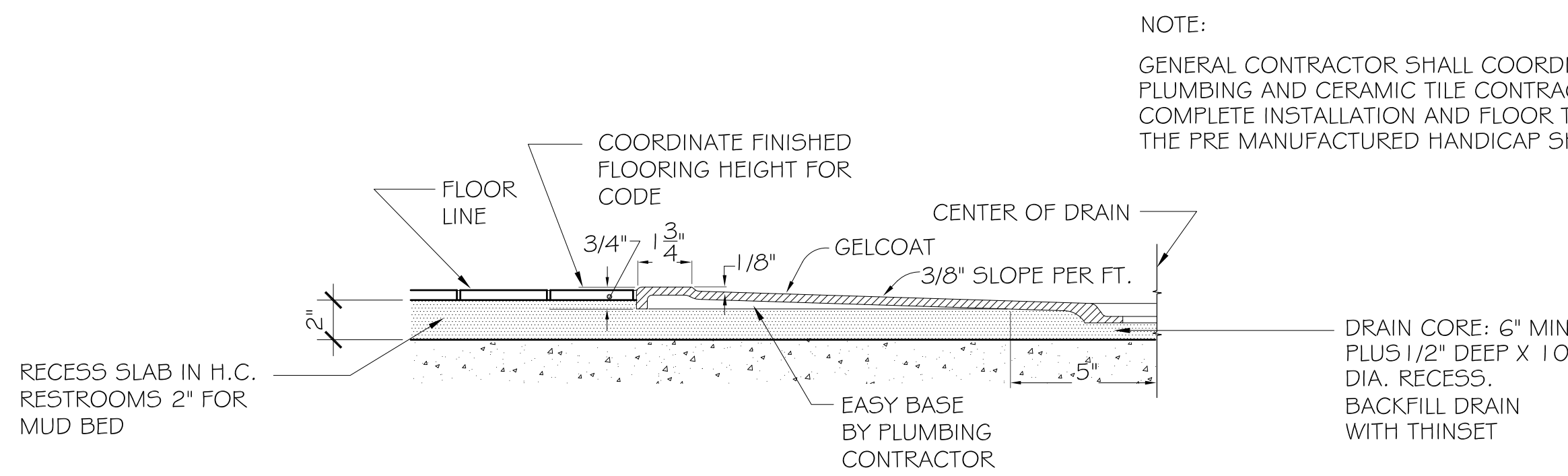
STOREFRONT TYPES
SCALE: 1/4"=1'-0"



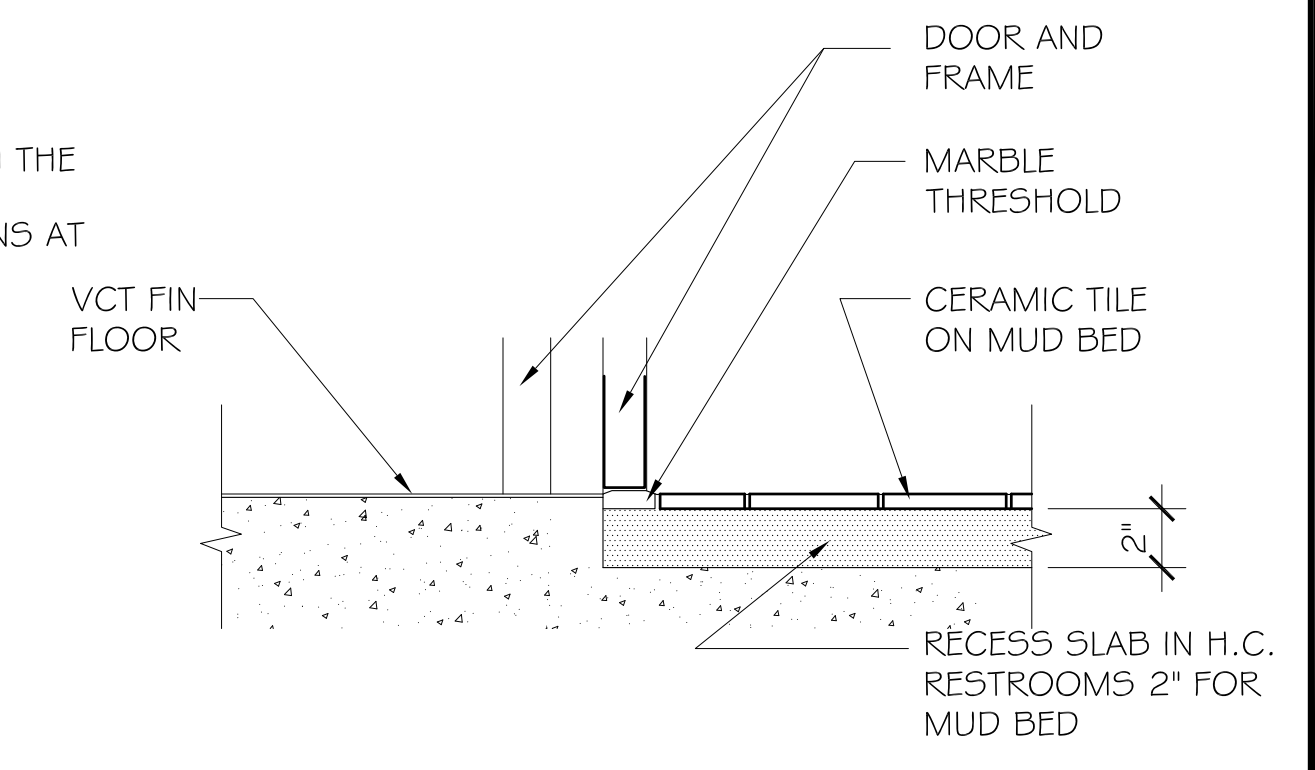
WINDOW TYPES
SCALE: 1/4"=1'-0"

ALL EXTERIOR DOORS TO BE LARGE MISSILE IMPACT UNITS

ALL STOREFRONT & WINDOWS TO BE LARGE MISSILE IMPACT UNITS



TILE / HANDICAP SHOWER FLOOR TRANSITION
SCALE: NTS



VCT/ CERAMIC TILE TRANSITION
SCALE: NTS

**A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA**

JOB NO.:
 DRAWN: JAG
 CHECKED: SBM
 DATE: 2019.07.23
 REVISION:
 2019.12.18 STATE REVIEW COMMENTS

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

SHEET NO.:


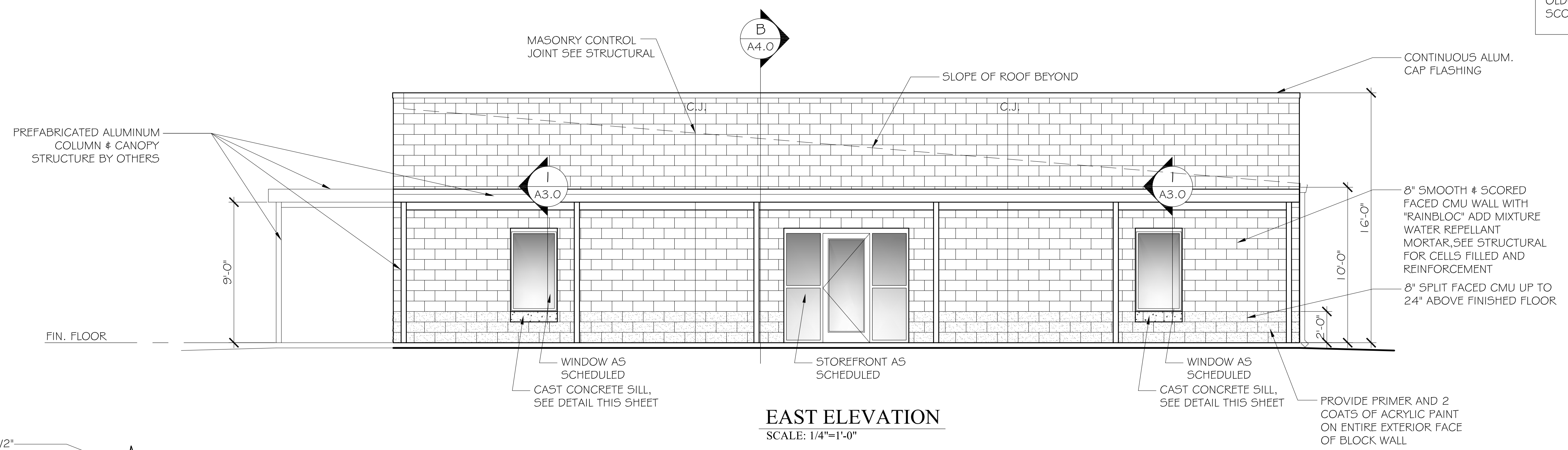
A2.0

DOOR/FINISH SCHEDULES
FRAME & WALL TYPES

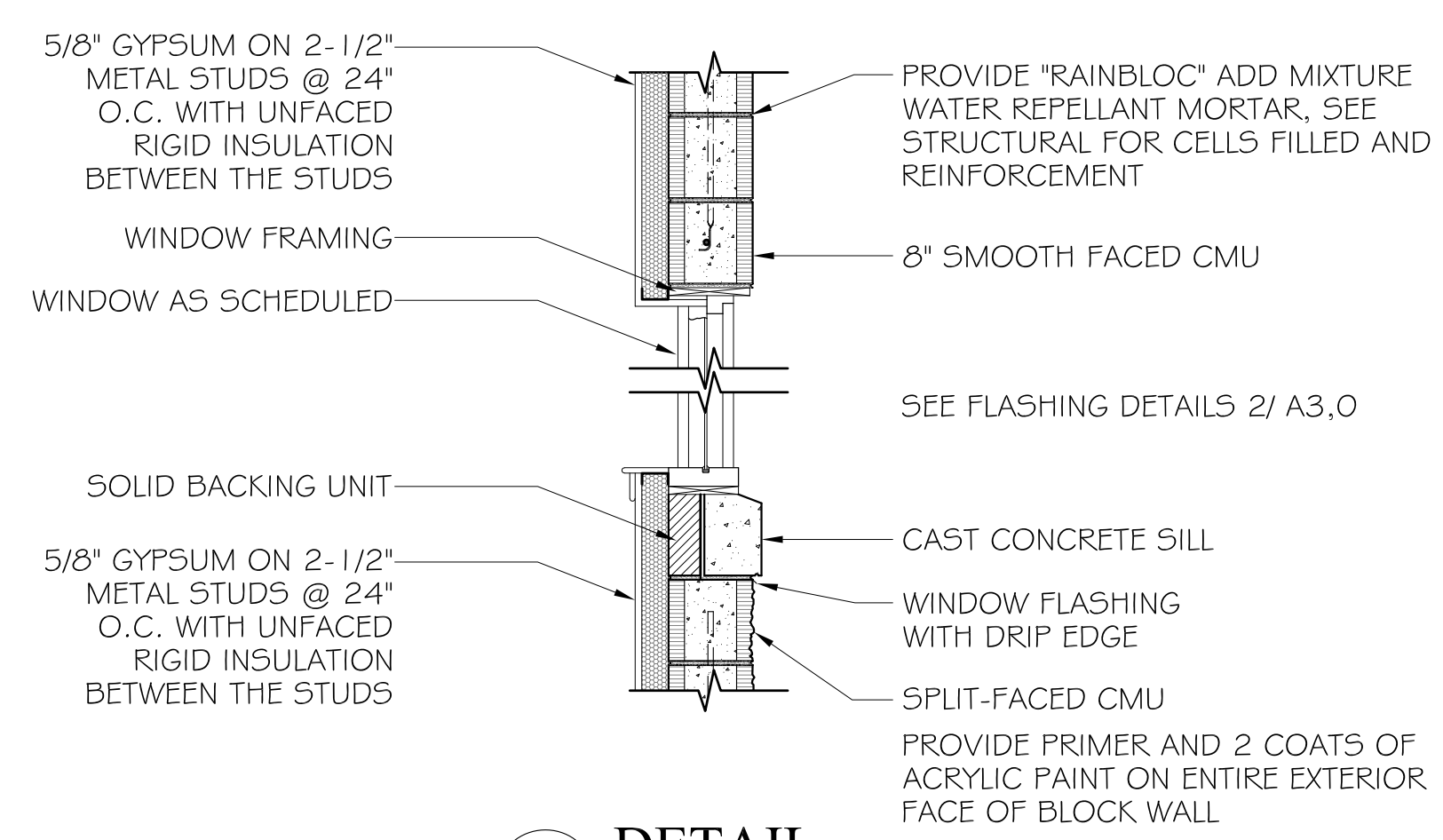
ALL CONCRETE MASONRY UNITS AND WATER PROOFING COMPONENTS TO BE PROVIDED BY OLDCASTLE APG OR EQUAL OLDCASTLE APG CONTACT: SCOTT BEECH 251-443-2040



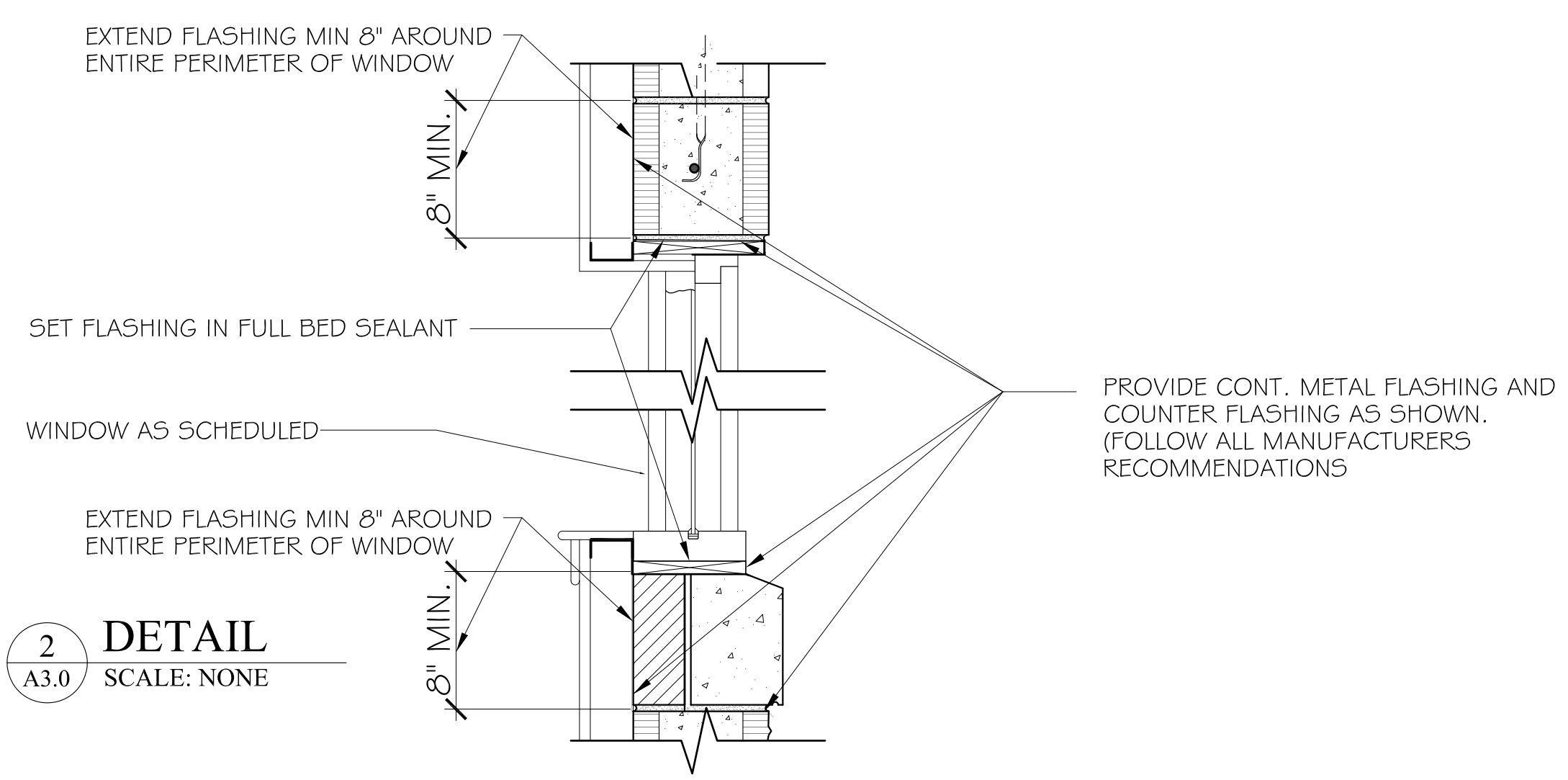
McCollough ARCHITECTURE, INC.
 P.O. BOX 6310
 GULF SHORES, ALABAMA 36547-6310
 PHONE: 251-968-7222

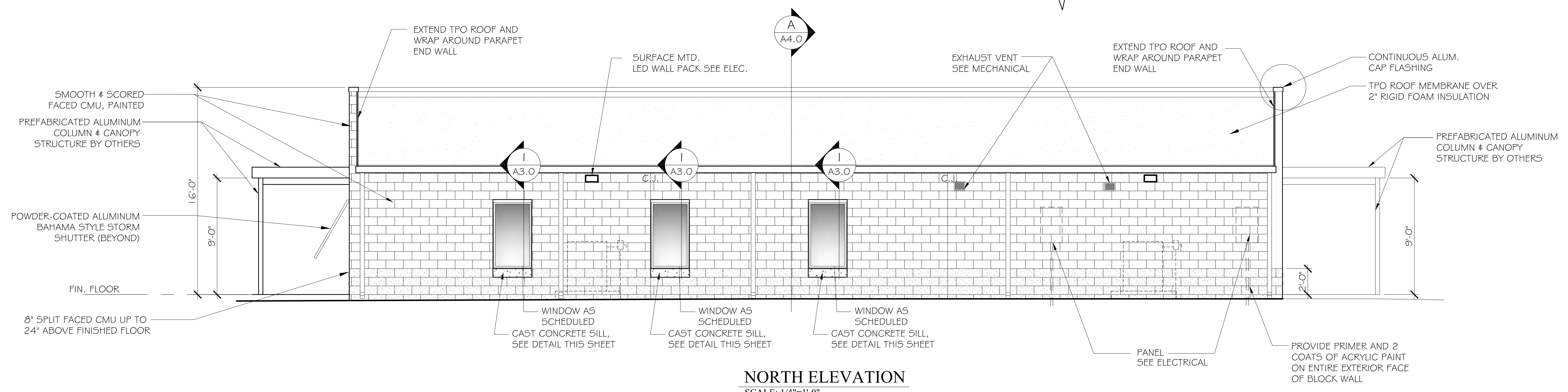
EAST ELEVATION
 SCALE: 1/4"=1'-0"



1 DETAIL
 A3.0 SCALE: 3/4"=1'-0"



2 DETAIL
 A3.0 SCALE: NONE



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

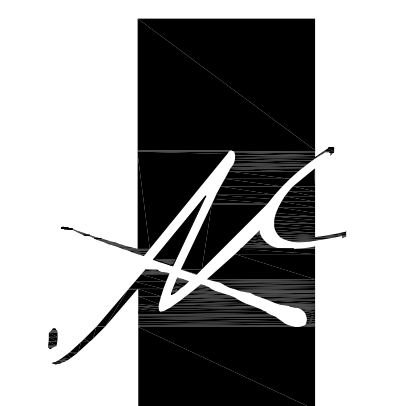
A NEW BUILDING FOR ORANGE BEACH SEWER DEPT.
 ORANGE BEACH ALABAMA

JOB NO.:	
DRAWN:	JAG
CHECKED:	SBM
DATE:	2019.07.23
REVISION:	

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

SHEET NO.:

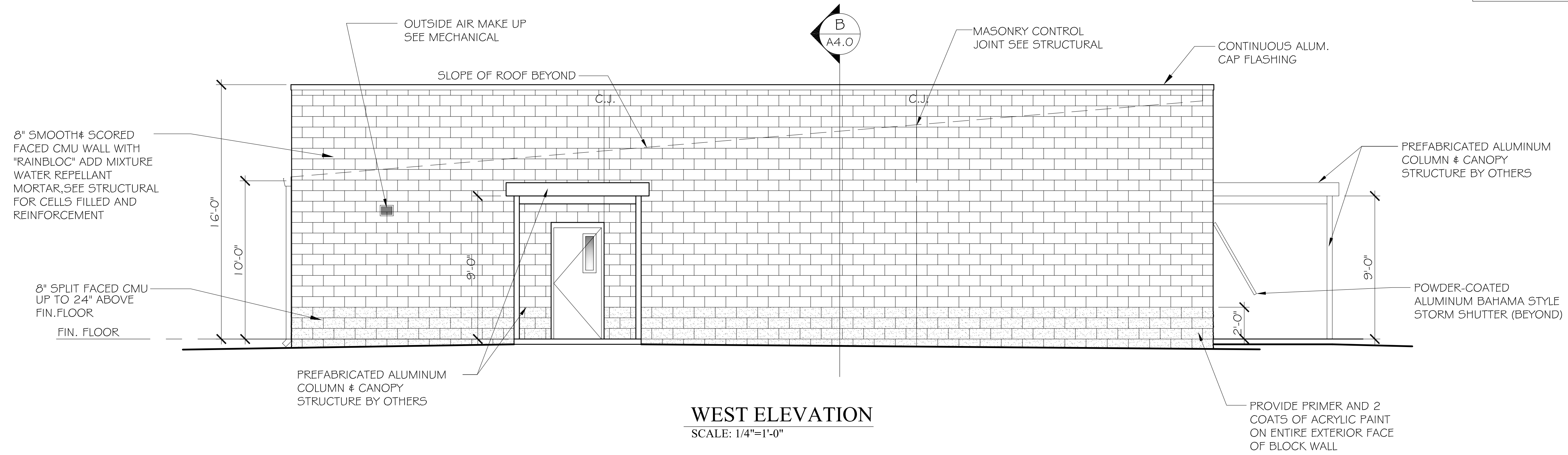
A3.0
 EXTERIOR ELEVATIONS



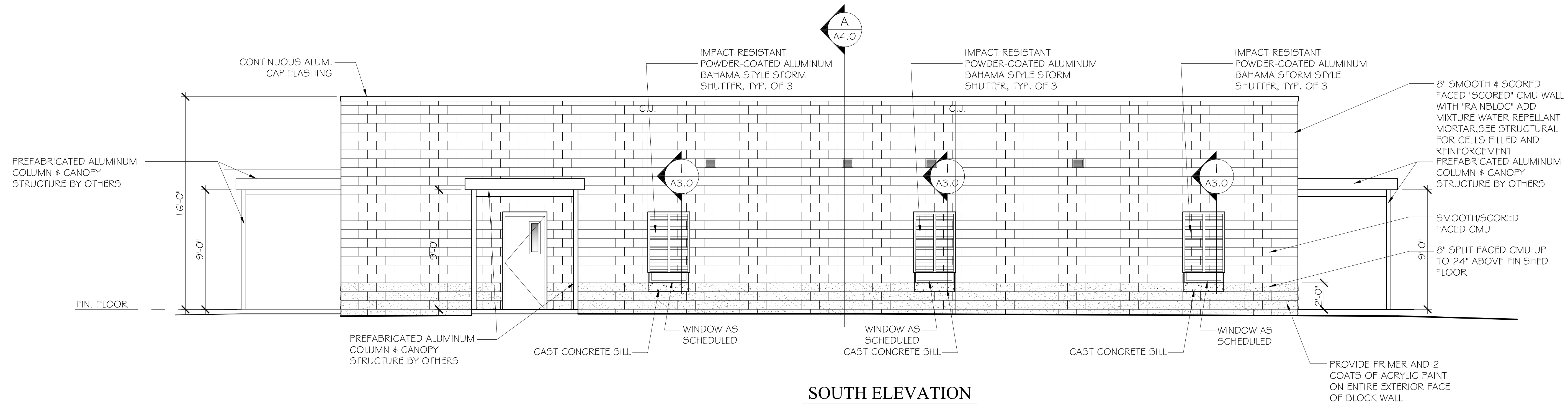
**McColough
ARCHITECTURE, INC.**
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GULF SHORES, ALABAMA
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ALL CONCRETE MASONRY UNITS AND WATER PROOFING COMPONENTS TO BE PROVIDED BY OLDCASTLE APG OR EQUAL
OLDCASTLE APG CONTACT:
SCOTT BEECH 251-443-2040



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



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

A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

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REVISION:

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

SHEET NO.:

A3.1

EXTERIOR ELEVATIONS



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 PHONE: 251-968-7222



A NEW BUILDING FOR ORANGE BEACH SEWER DEPT.
 ORANGE BEACH ALABAMA

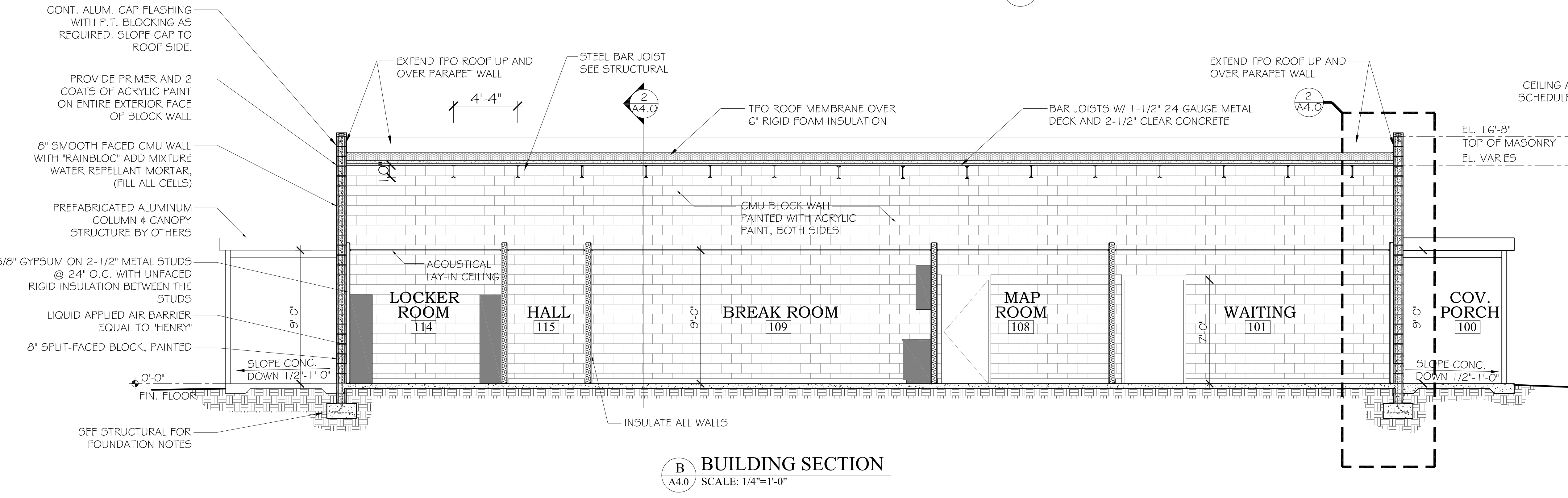
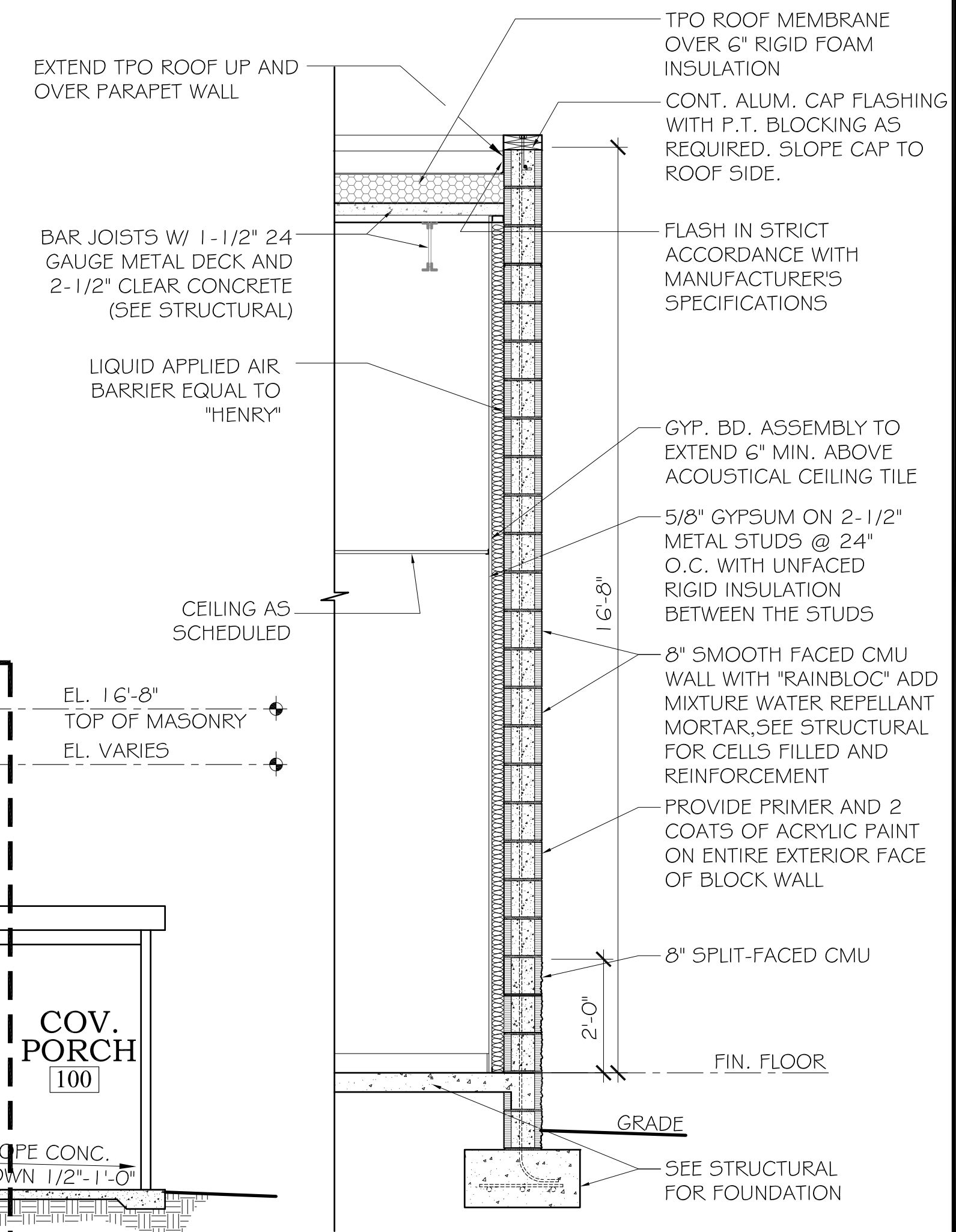
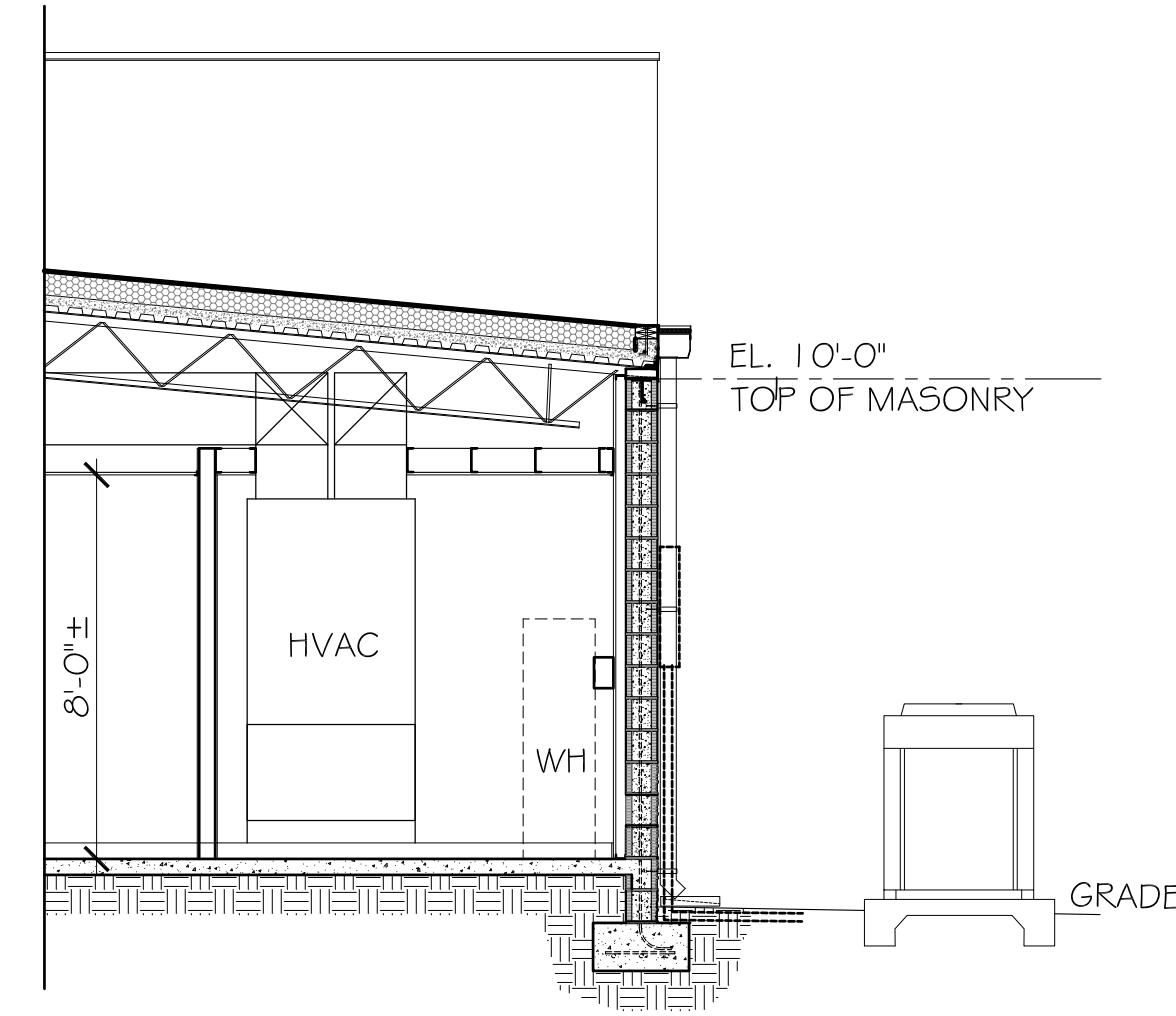
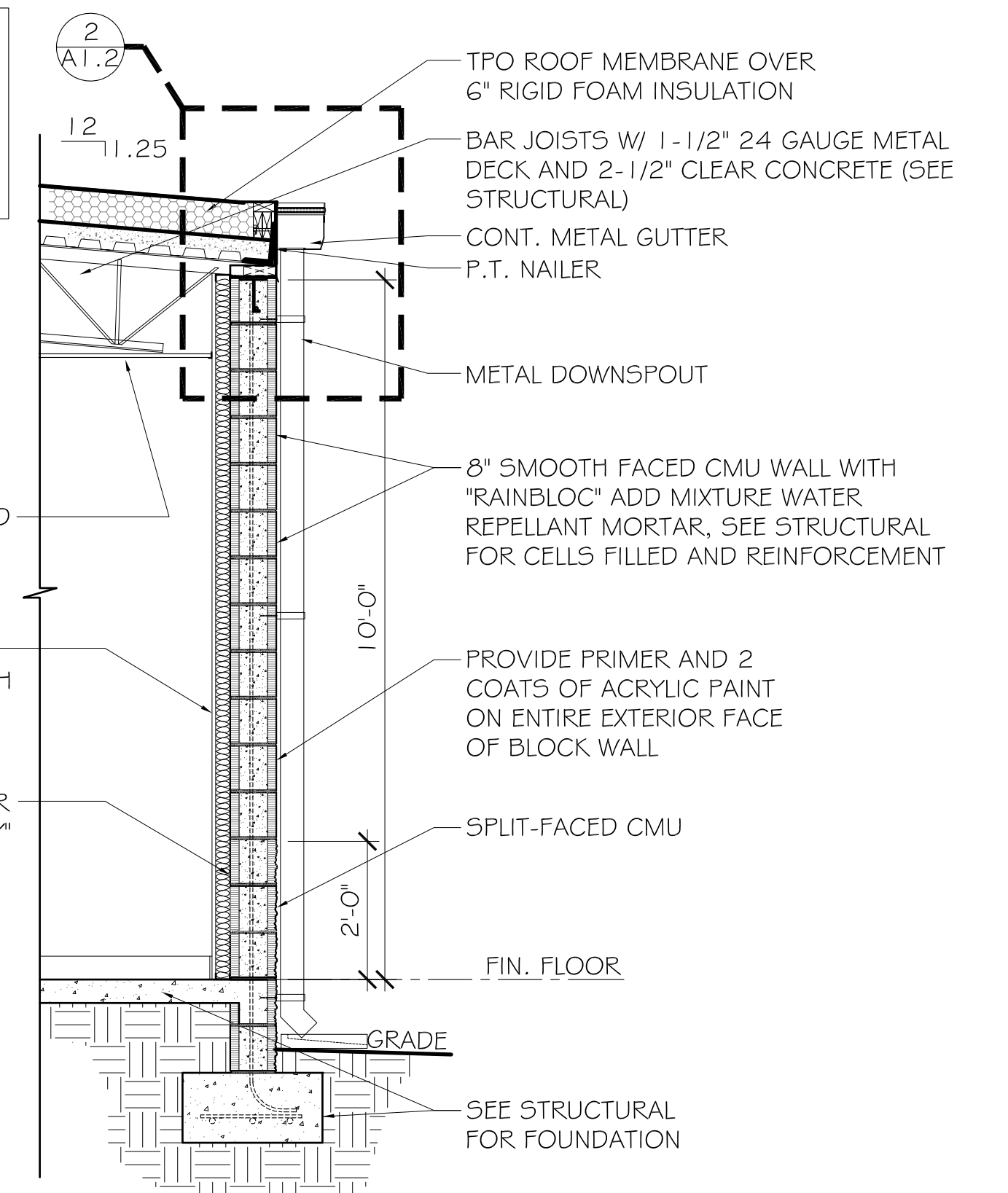
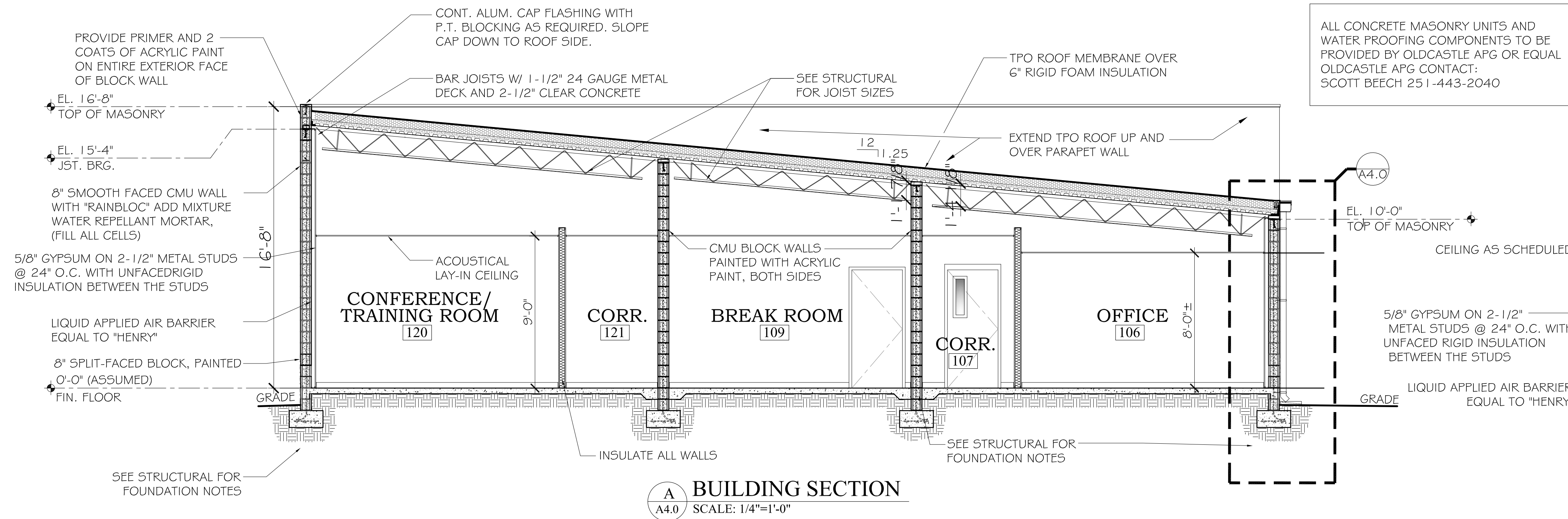
JOB NO.:
 DRAWN: JAG
 CHECKED: SBM
 DATE: 2020.3.27
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SCALE: AS NOTED

SHEET NO.:

A4.0

BUILDING SECTION
 WALL SECTIONS



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



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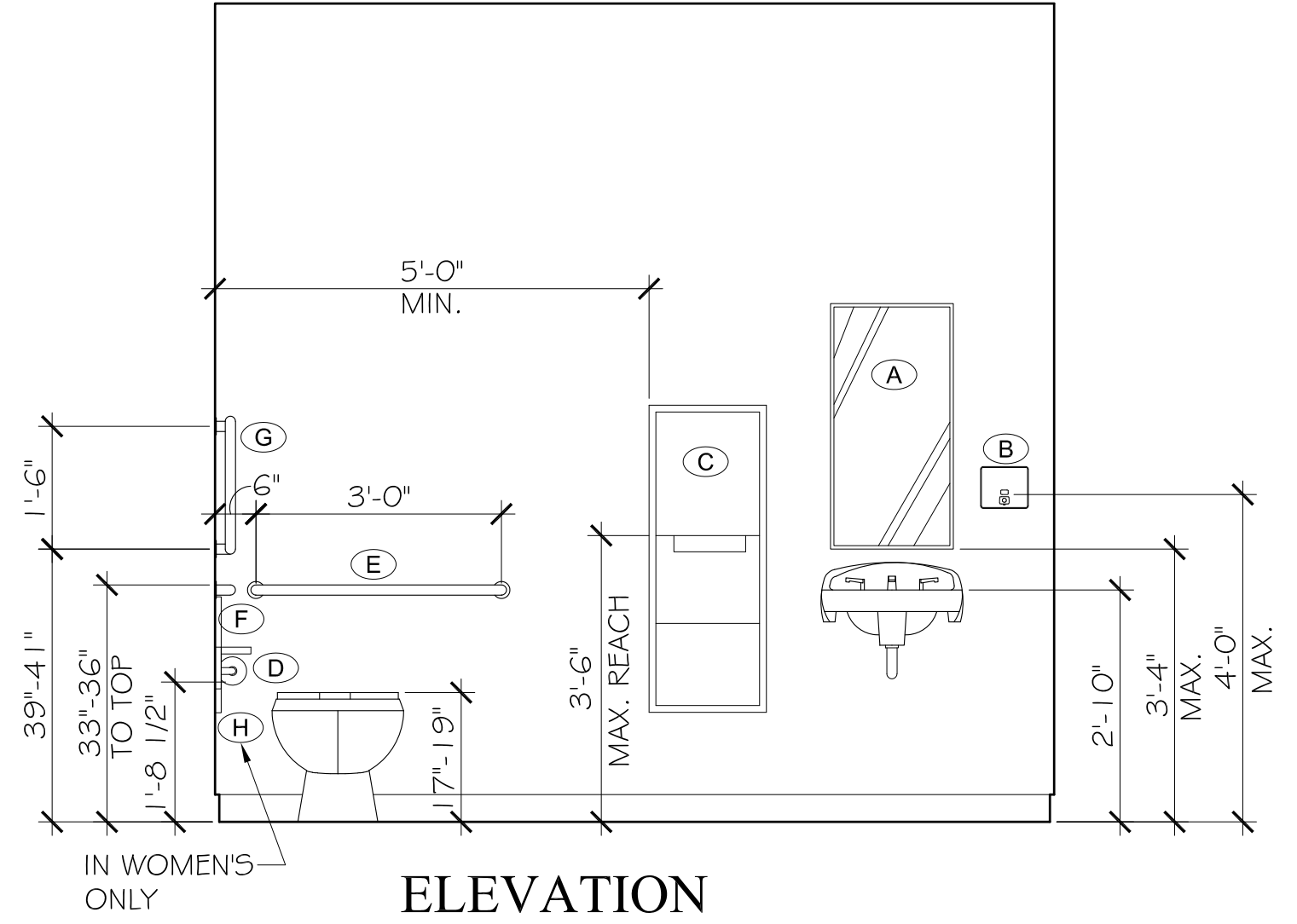


SEE SHEET A1.0 FOR ALL ACCESSIBLE COMPONENTS AND DIMENSIONS.

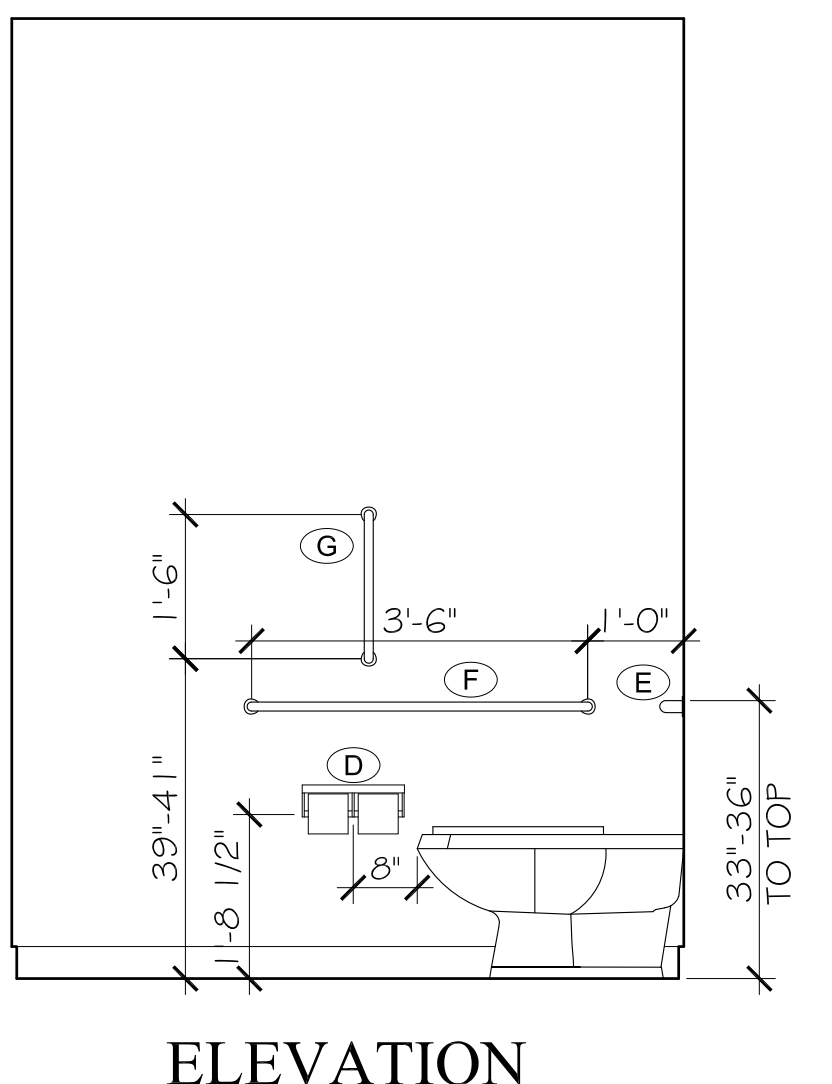
OBSTRUCTED FIXTURES SHALL BE MOUNTED ACCORDING TO SECTION 2/A1.0

ACCESSORIES SCHEDULE	
SYMBOL	DESCRIPTION
(A)	ACCESSIBLE MIRROR UNIT
(B)	SOAP DISPENSER
(C)	PAPER TOWEL DISP./WASTE RECEPT.
(D)	TOILET PAPER DISPENSER
(E)	36" REAR GRAB BAR
(F)	42" SIDE GRAB BAR
(G)	VERTICAL GRAB BAR
(H)	SANITARY NAPKIN DISPOSAL
(I)	SHOWER CORNER GRAB BAR
(J)	SHOWER SEAT

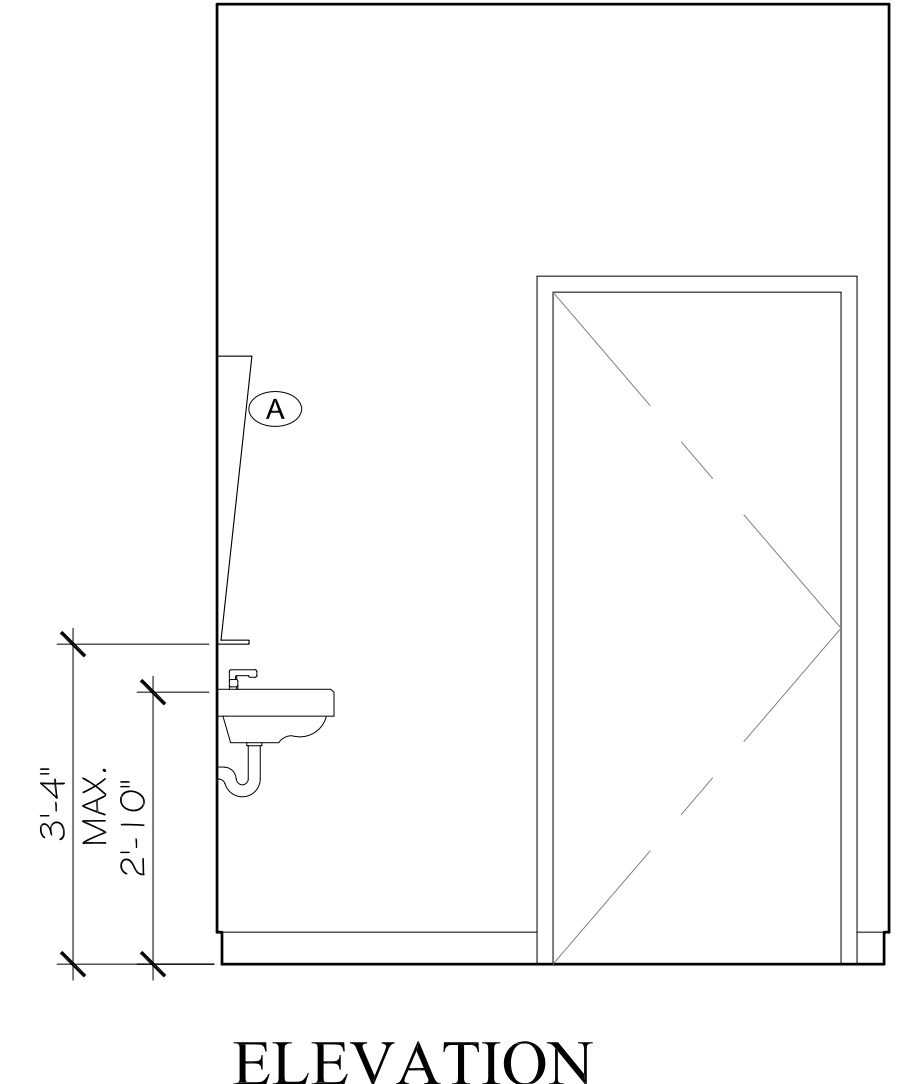
NOTES:
PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL ACCESSORIES.



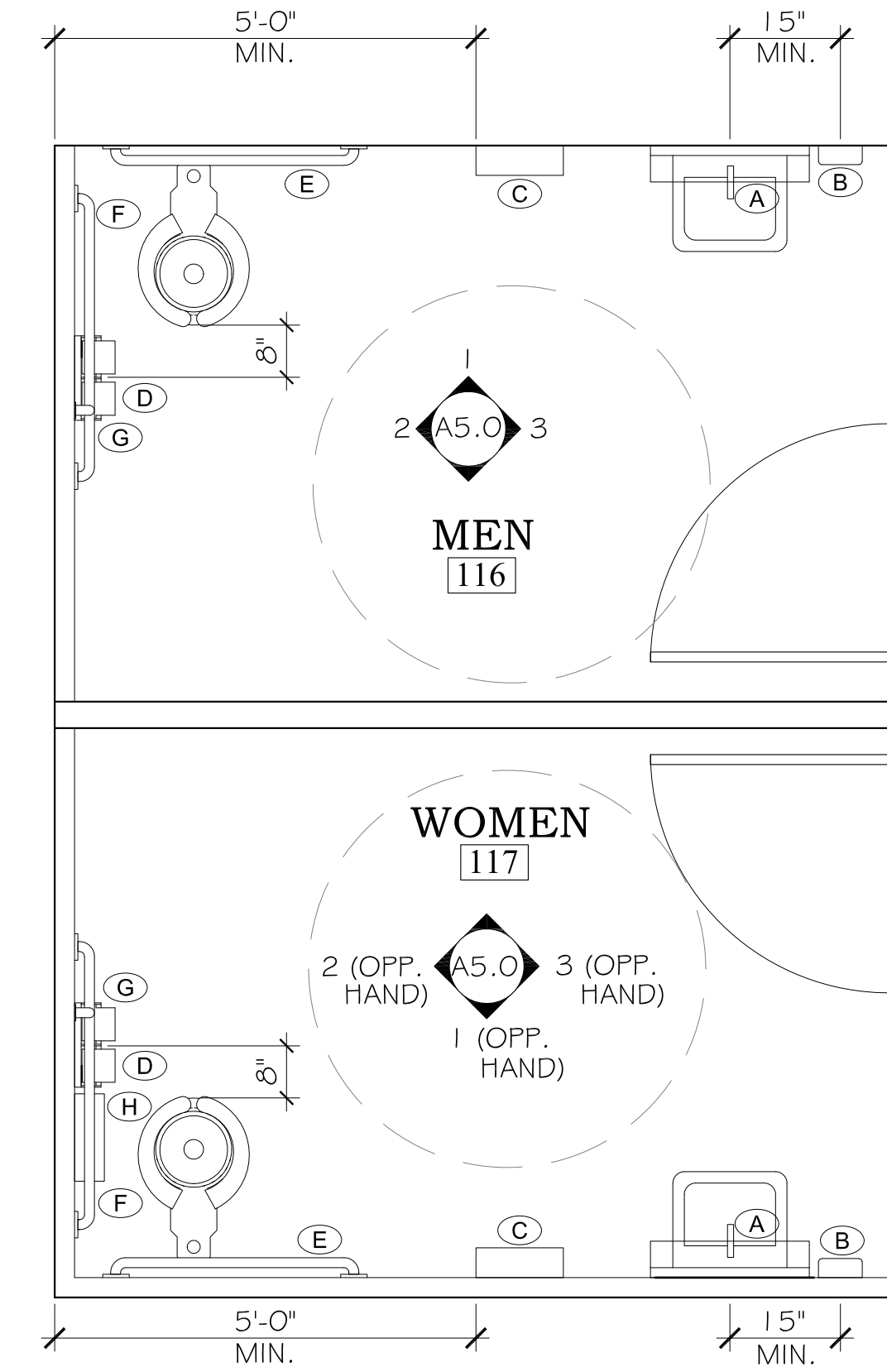
**ELEVATION
MEN 116 & WOMEN 117**
1
A5.0 SCALE: 1/2"=1'-0"



**ELEVATION
MEN 116 & WOMEN 117**
2
A5.0 SCALE: 1/2"=1'-0"



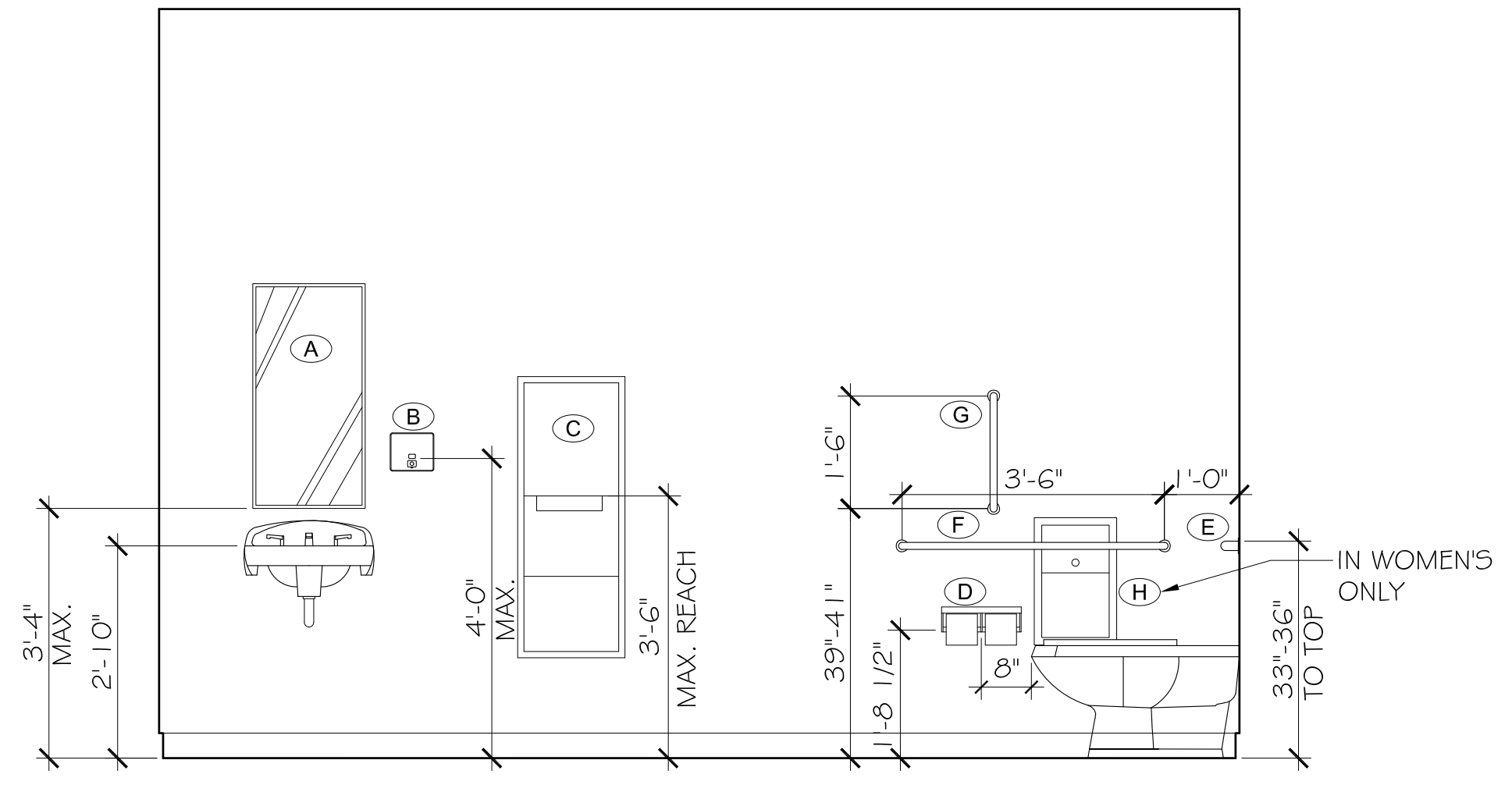
**ELEVATION
MEN 116 & WOMEN 117**
3
A5.0 SCALE: 1/2"=1'-0"



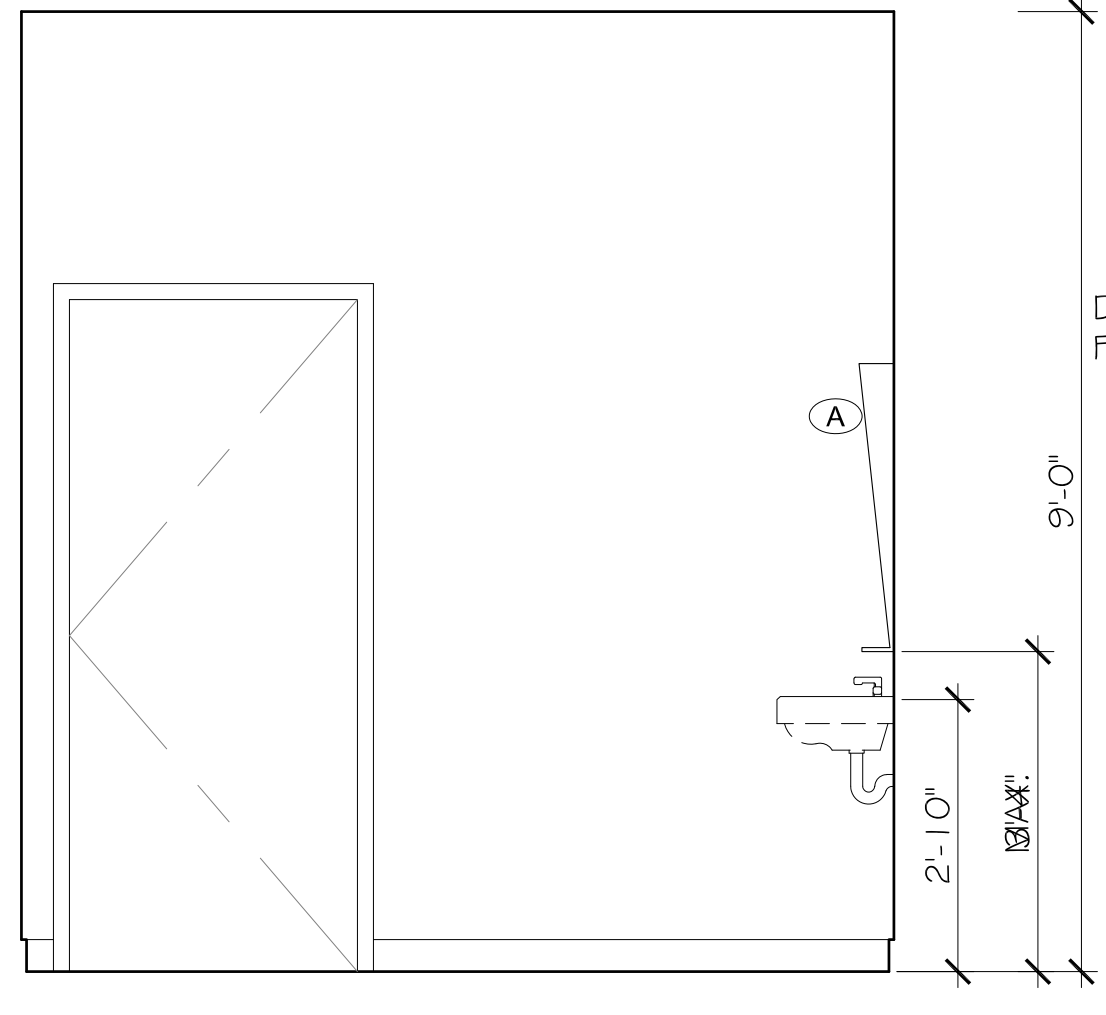
**ENLARGED PLAN
MEN 116 & WOMEN 117**
A
A5.0 SCALE: 1/2"=1'-0"

CONTRACTOR / SUB-CONTRACTOR SHALL COMPLY WITH ADA STANDARD 608.5.2 FOR ROLL IN SHOWERS.

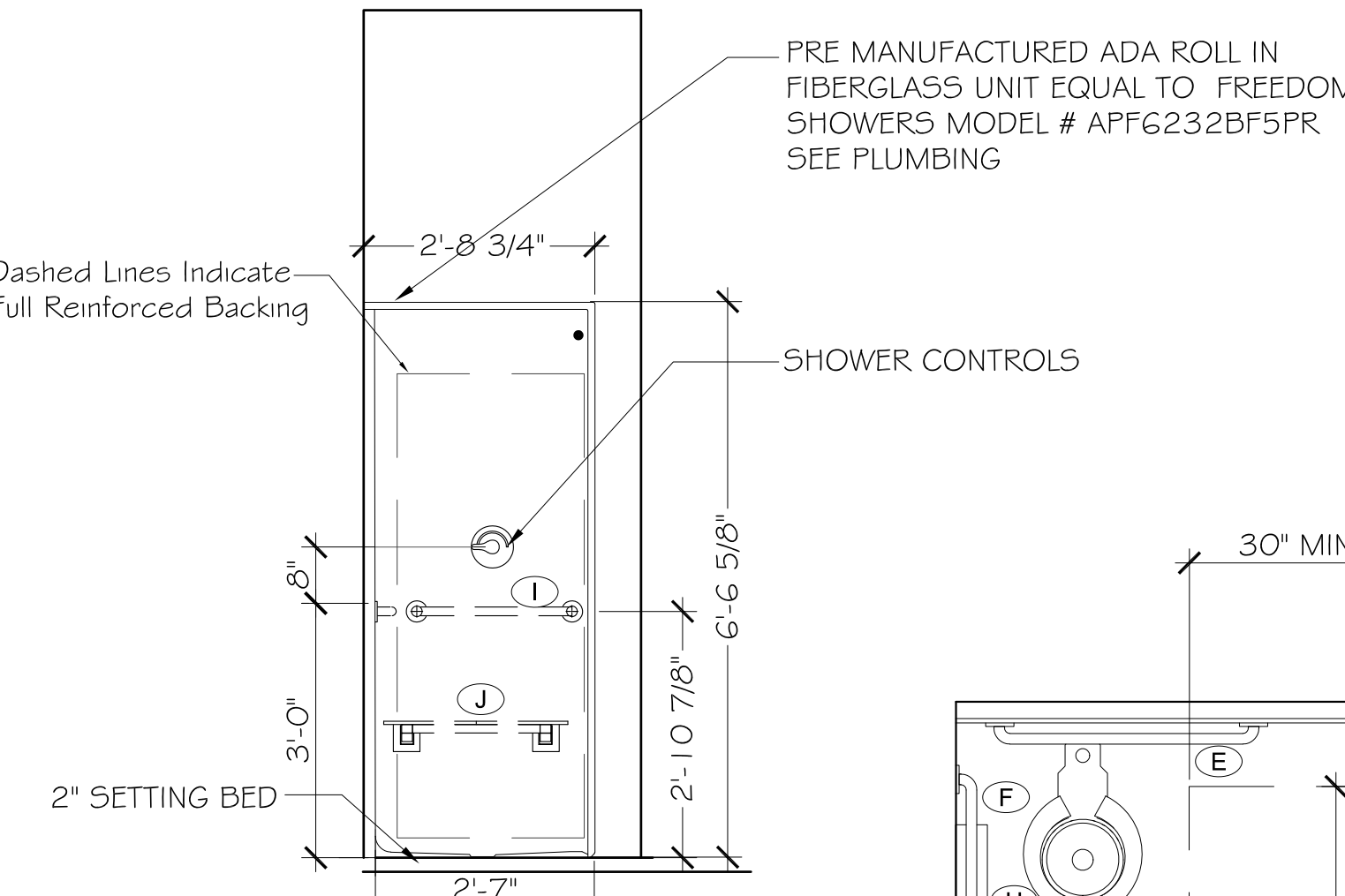
PRE MANUFACTURED ADA ROLL IN FIBERGLASS UNIT EQUAL TO FREEDOM SHOWERS MODEL # APF6232BF5PR SEE PLUMBING



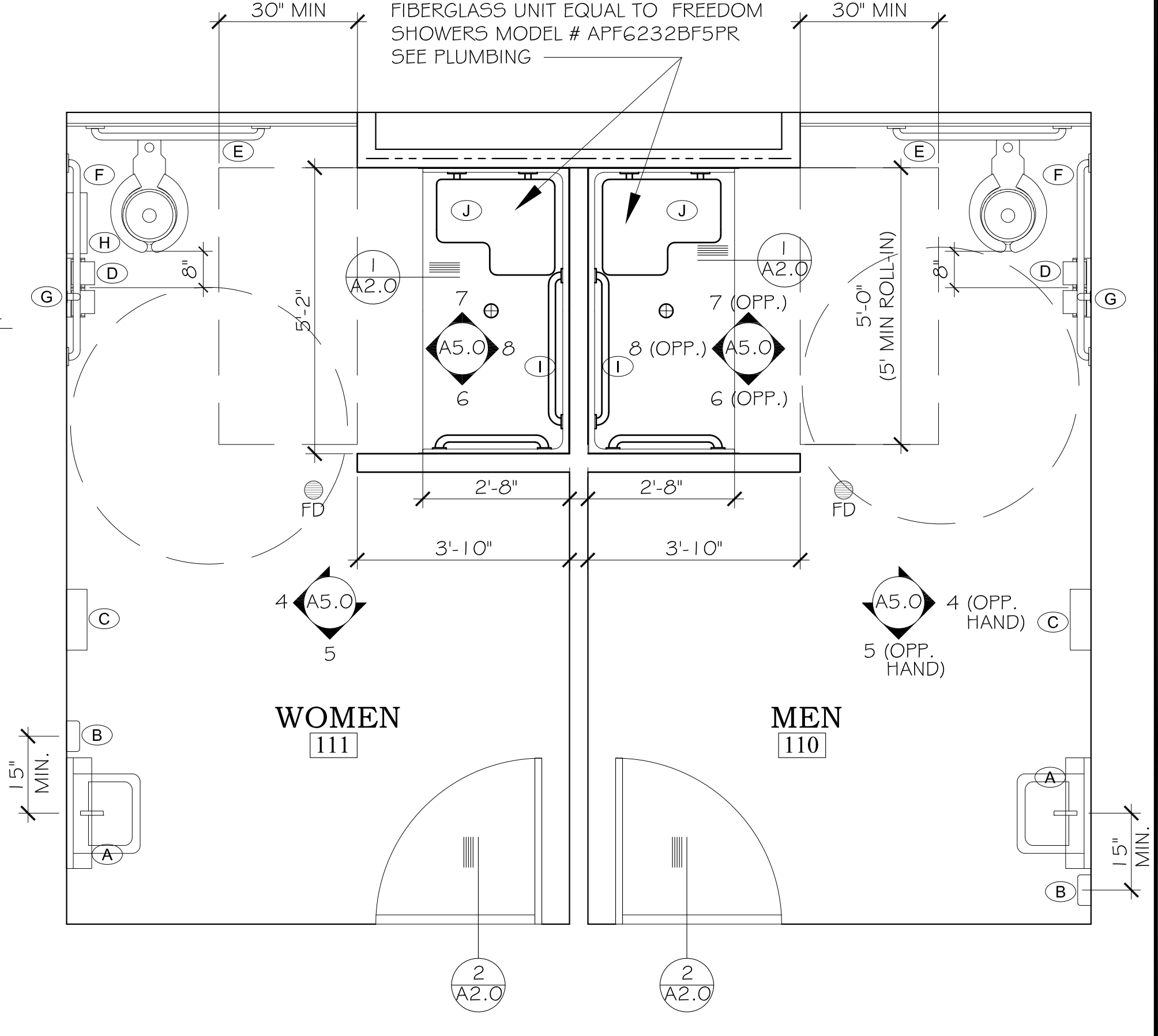
**ELEVATION
MEN 110 & WOMEN 111**
4
A5.0 SCALE: 1/2"=1'-0"



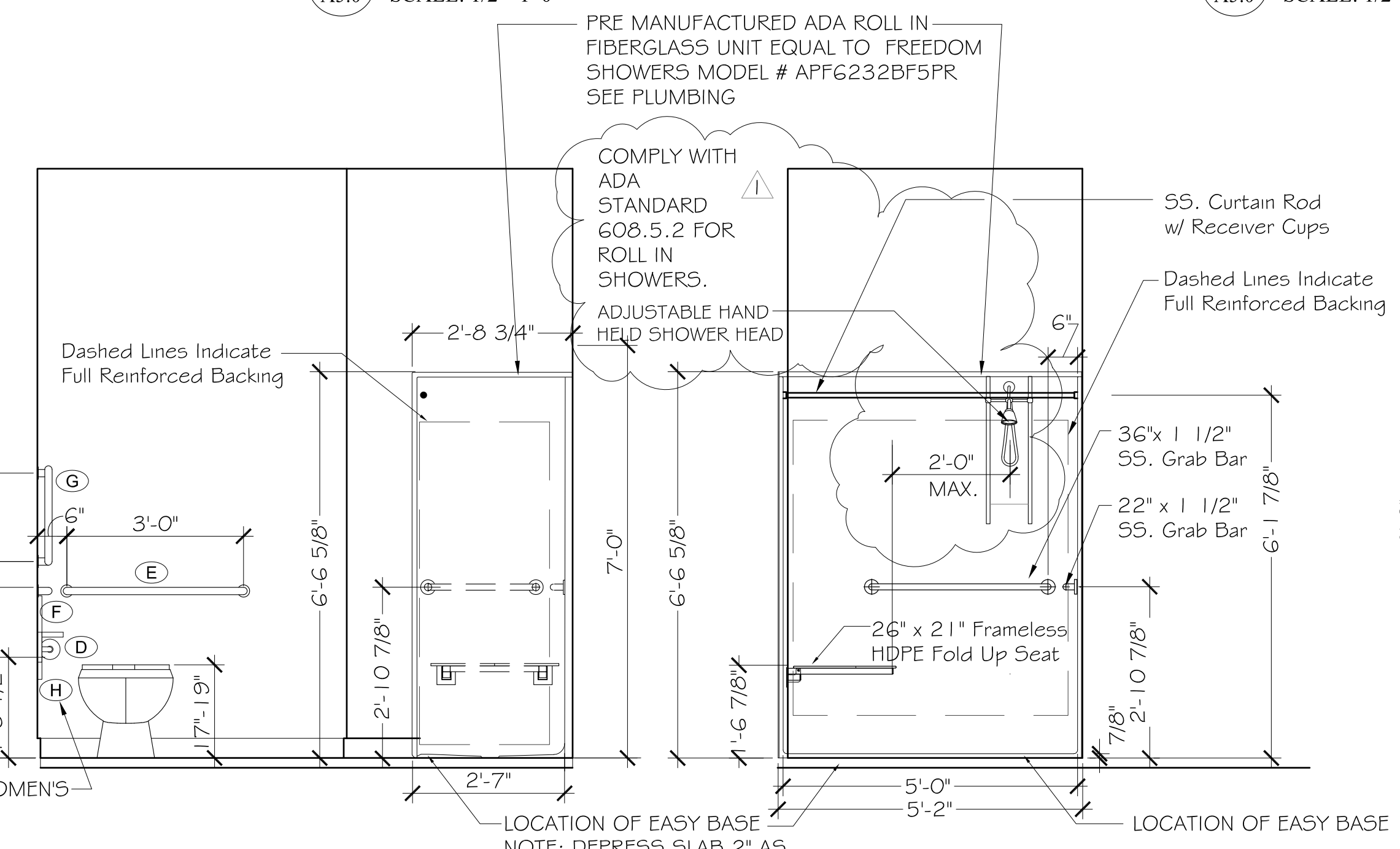
**ELEVATION
MEN 110 & WOMEN 111**
5
A5.0 SCALE: 1/2"=1'-0"



**ELEVATION
MEN 110 & WOMEN 111**
6
A5.0 SCALE: 1/2"=1'-0"

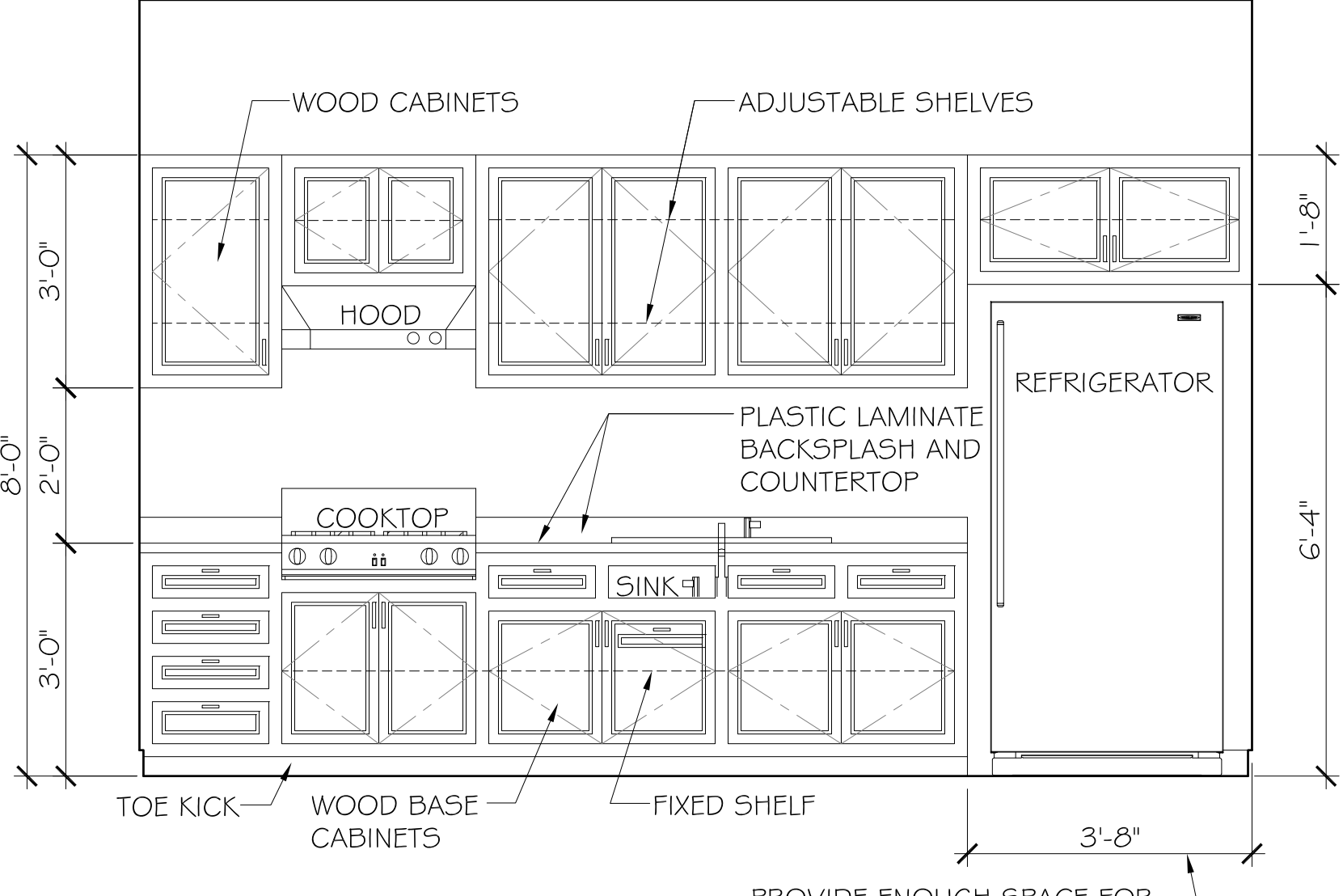


**ENLARGED PLAN
MEN 110 & WOMEN 111**
B
A5.0 SCALE: 1/2"=1'-0"



**ELEVATION
MEN 110 & WOMEN 111**
7
A5.0 SCALE: 1/2"=1'-0"

**ELEVATION
MEN 110 & WOMEN 111**
8
A5.0 SCALE: 1/2"=1'-0"



**ELEVATION
BREAK ROOM 109**
9
A5.0 SCALE: 1/2"=1'-0"

A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

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SCALE: AS NOTED

SHEET NO.:

A5.0

ENLARGED PLANS
INTERIOR ELEVATIONS



A NEW BUILDING FOR
ORANGE BEACH SEWER DEPT.
 ORANGE BEACH ALABAMA

JOB NO.:
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 REVISION:

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

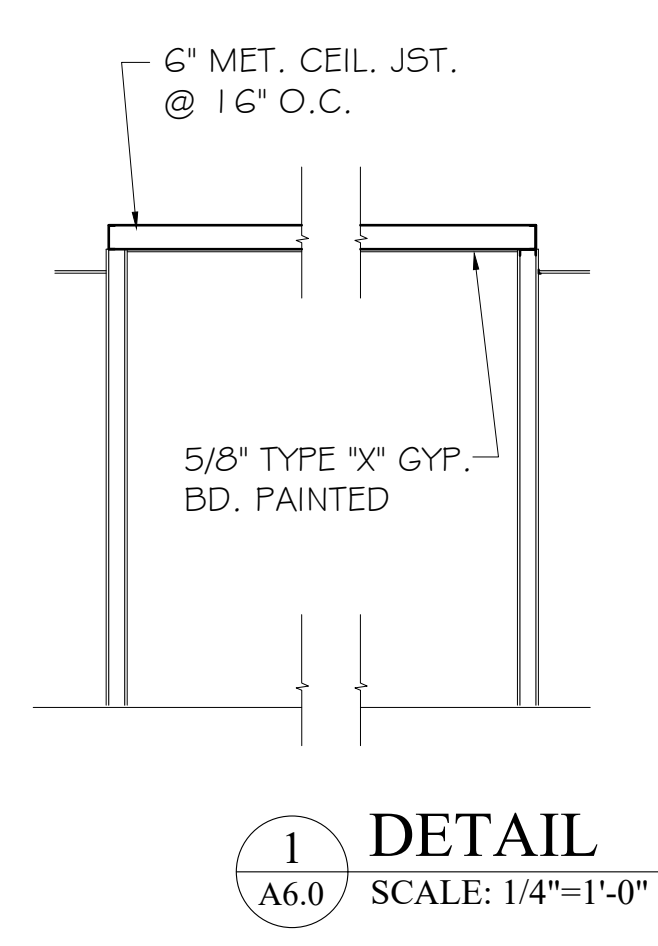
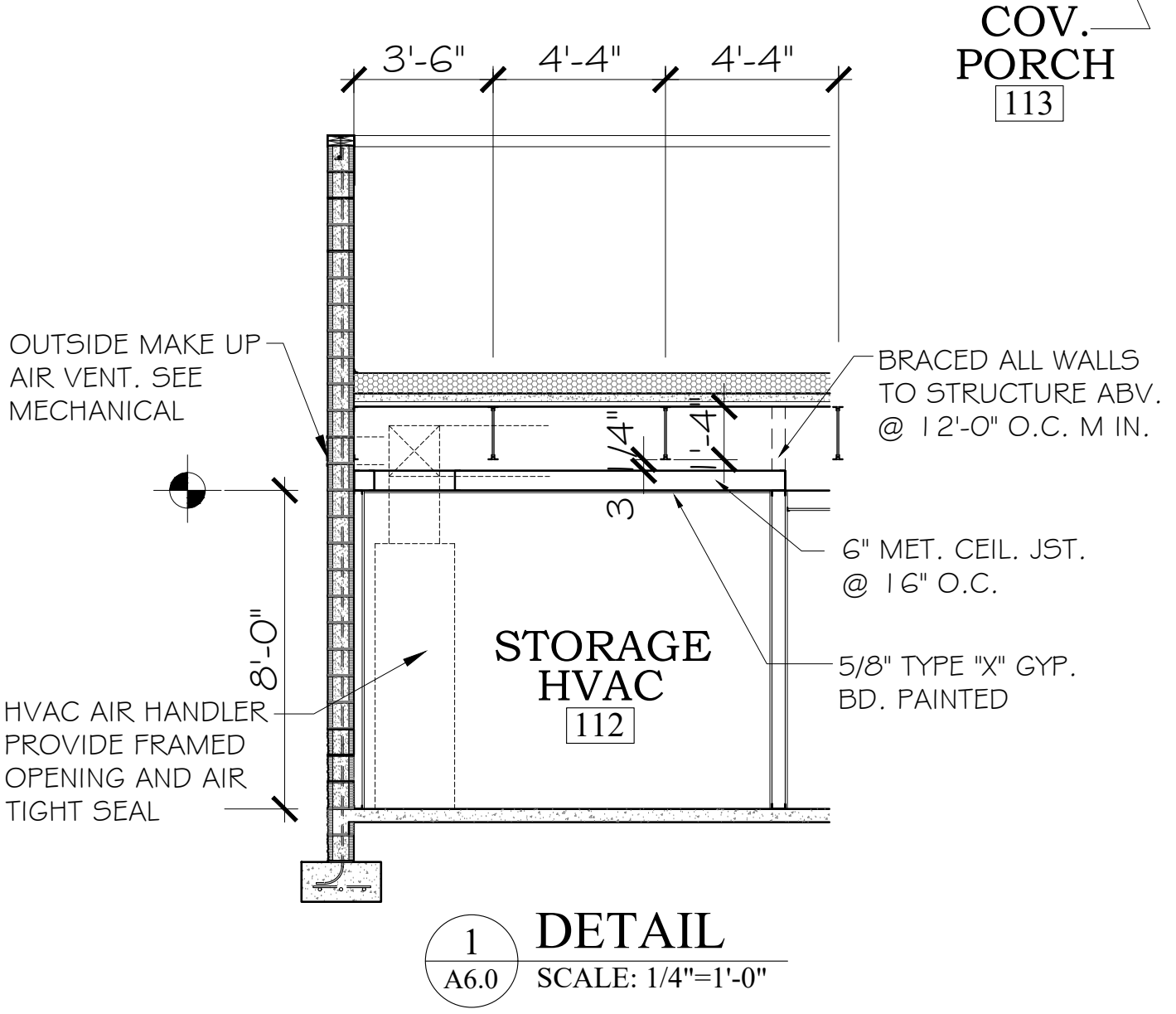
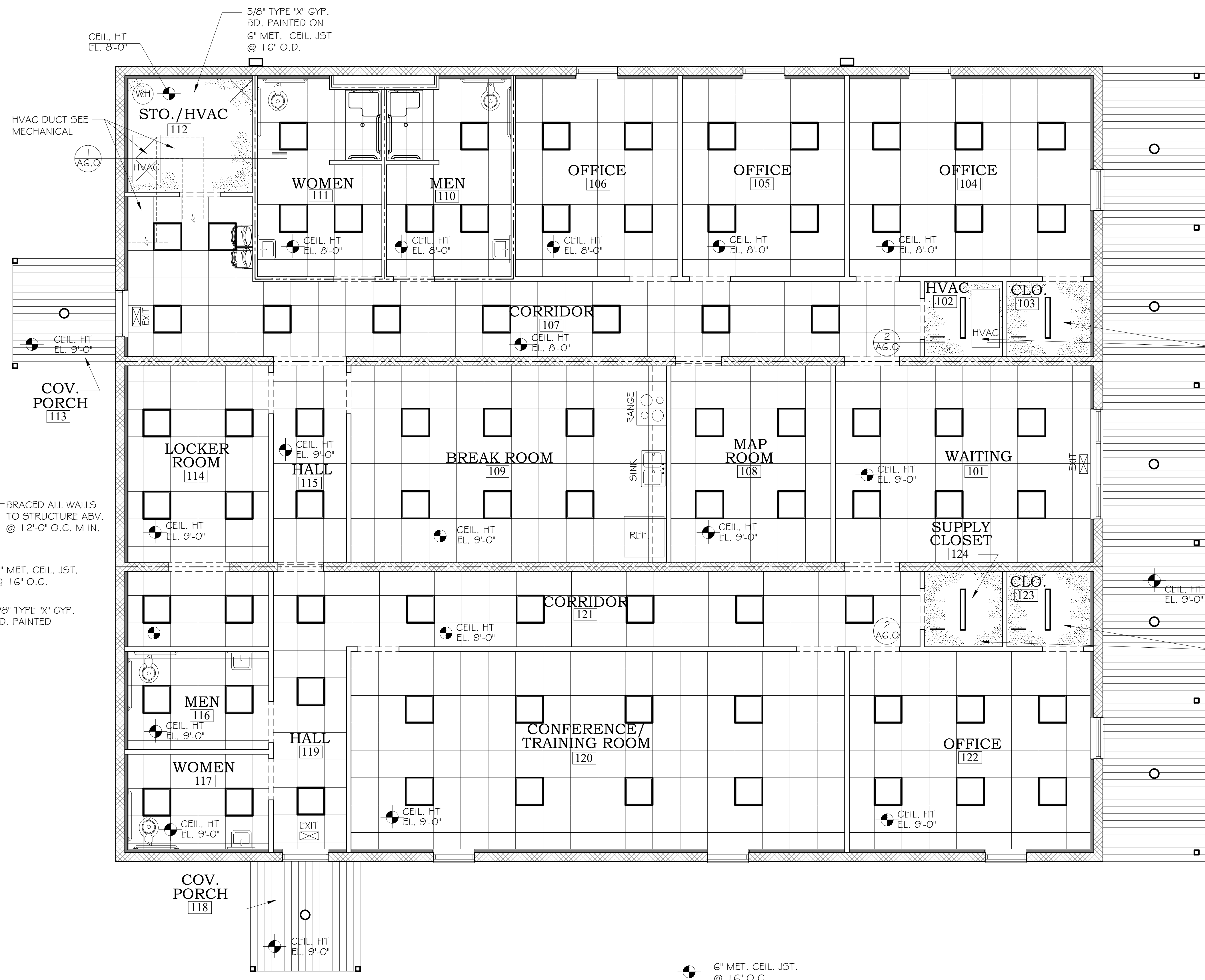
SHEET NO.:

A6.0

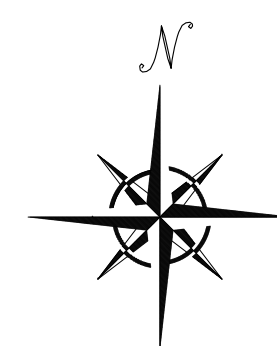
REFLECTED CEILING PLAN

LEGEND

- UNDER CANOPY LED LIGHT
- UNDER CANOPY LED LIGHT
- ⊠ 2X4 HVAC GRILLE
- ▭ WALL PACK LIGHT
- 1/2"X48" STRIP LIGHT, SURFACE MTD



REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



GENERAL PLUMBING NOTES:

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE SANITARY, VENTING AND DOMESTIC WATER SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 IPC, NFPA AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTOR'S BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- PLUMBING PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE WATER HAMMER ARRESTORS ON POTABLE WATER ROUGH-INS AS INDICATED ON DRAWINGS.
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:
 - LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER.
 - LINES ABOVE GRADE SHALL BE SCH 80 PVC AND CPVC.
 - FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.
 - ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.
 - EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE.
- INSULATE HOT WATER MAINS AND RETURN ONLY.

FIXTURE CONNECTION NOTES:

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- PROVIDE CAST IRON P-TRAPS FOR UNDER FLOOR DRAINS.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.
- ALL DRAINS LOCATED WITHIN KITCHEN AREAS SHALL BE CONNECTED BY INDIRECT WASTE FIXTURE(S). FLOOR MOUNTED GREASE TRAP SHALL BE UTILIZED UNDER FOOD PREP SINK.

PLUMBING FIXTURE SCHEDULE	
WC-1	ADA WATER CLOSET, FLOOR MOUNTED FLUSH VALVE, ELONGATED - ZURN ECOVANTAGE SERIES, LOW CONSUMPTION, Z5665; ZURN Z6000AV-HET 1.28 GPF FLUSH VALVE W/SPLIT RING PIPE SUPPORT; ZURN Z5955S-EL OPEN FRONT SEAT WITHOUT COVER; BRASSCRAFT CR1912DL SUPPLY. MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1-1/2", WASTE 3", VENT 2" MIN.
LV-1	ADA LAVATORY, WALL MOUNTED - ZURN Z5314 SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; ZURN Z81104 FAUCET WITH LEVER HANDLES; ZURN Z8800 SUPPLIES; ZURN Z8700 TRAP; Z8746-PC ADA GRID STRAINER; ZURN Z8946-3-NT ADA PROTECTORS, ZURN Z1231 CONCEALED ARM CARRIER, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.
SH-1	SHOWER, ADA SHOWER, HAND HELD SHOWER HEAD, GRAB BARS AND ADA SHOWER SEAT. CONNECTIONS: CW 1/2", HW 1/2", WASTE 2".
SK-1	KITCHEN SINK, STAINLESS STEEL, TWO BOWL, GOOSENECK FAUCET. CONNECTIONS: CW 1/2", HW 1/2", WASTE 2".
MS-1	MOP BASIN - ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.
DF-1	DRINKING FOUNTAIN, OASIS VERSACOOLER II, BI-LEVEL, WALL MOUNTED, PUSH BAR ACTIVATION, ADA HEIGHT, CONNECTIONS: 1/2"CW, 2" WASTE
FD	FLOOR DRAIN, J.R. SMITH 2005/2010 SERIES COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP, AND TRAP PRIMER CONNECTION. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER.
UB-1	WASHING MACHINE UTILITY BOX, OATEY QUADTRO, QUARTER TURN HOT AND COLD WATER CONNECTIONS, WASTE CONNECTION
UB-2	ICE MAKER UTILITY BOX, OATEY, QUARTER TURN COLD WATER CONNECTION
HB-1	HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".

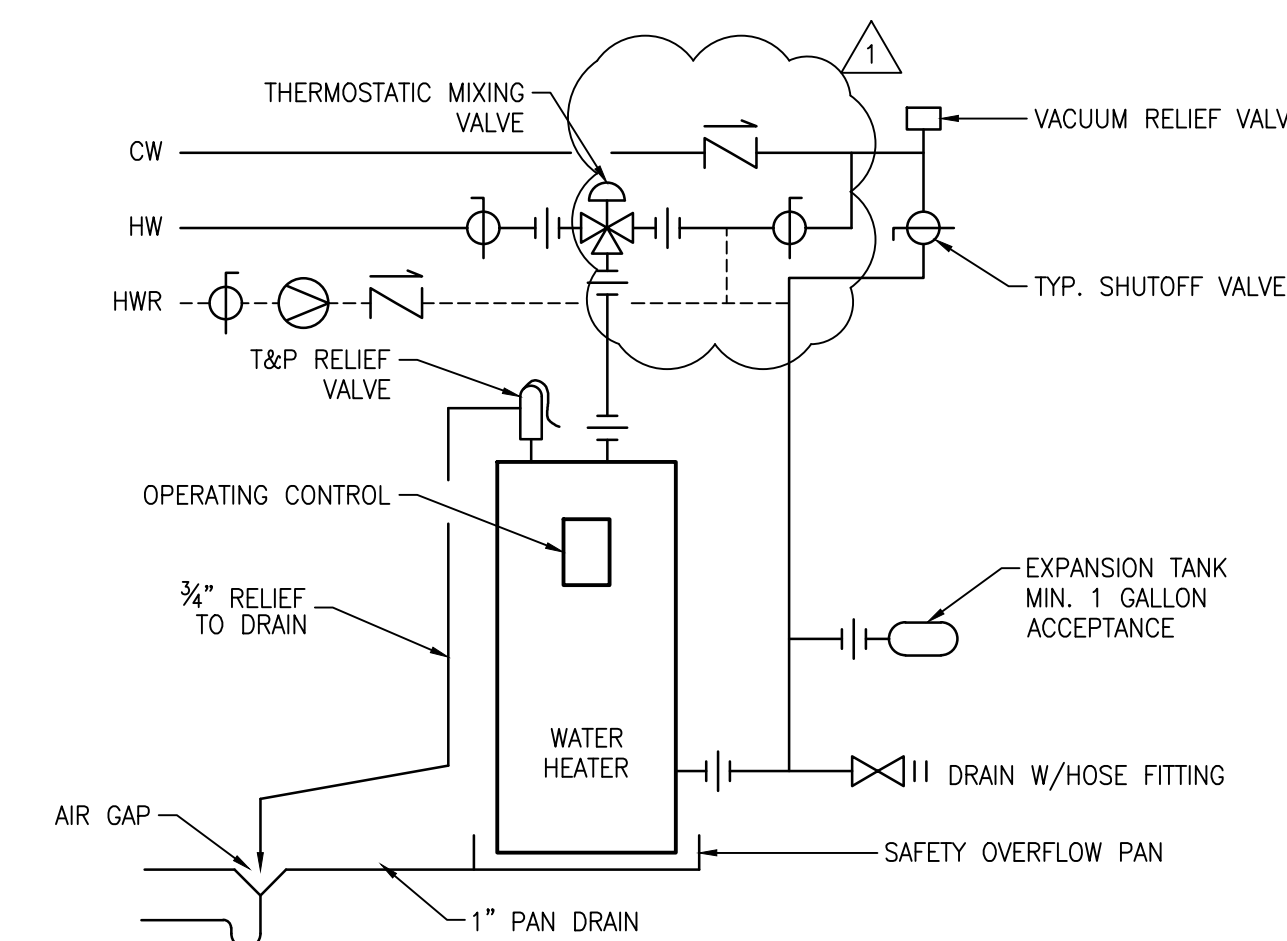
WATER HEATER SCHEDULE													
TAG	ELECTRIC DATA				HYDRONIC DATA					BASIS OF DESIGN		WEIGHT	NOTES
	FLA	MOCP	VOLT PHASE	KW	EWT	LWT	RATE OF RECOVERY	RISE OF RECOVERY	CAPACITY (GAL)	MFR	MODEL		
	AMPS	AMPS			DEG.F	DEG.F	GPM	DEG. F					
EWH-1	18	30	240/1	4.0	60	140	0.35	80	80	RHEEM	ELD80	200	ALL

NOTES:
 1. 1" INLET/OUTLET CONNECTIONS
 2. SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES BY USE OF ASSE 1070 COMPLIANT TEMPERATURE LIMITING VALVE.
 3. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI

GRINDER PUMP SCHEDULE						
MARK	DESCRIPTION	MFR	MODEL	GPM	HEAD	NOTES
GP-1	GRINDER PUMP	LIBERTY	2448-SERIES	30	60	1

NOTES:
 1. PROVIDE WITH FLOAT VALVE AND HIGH LEVEL ALARM SYSTEM

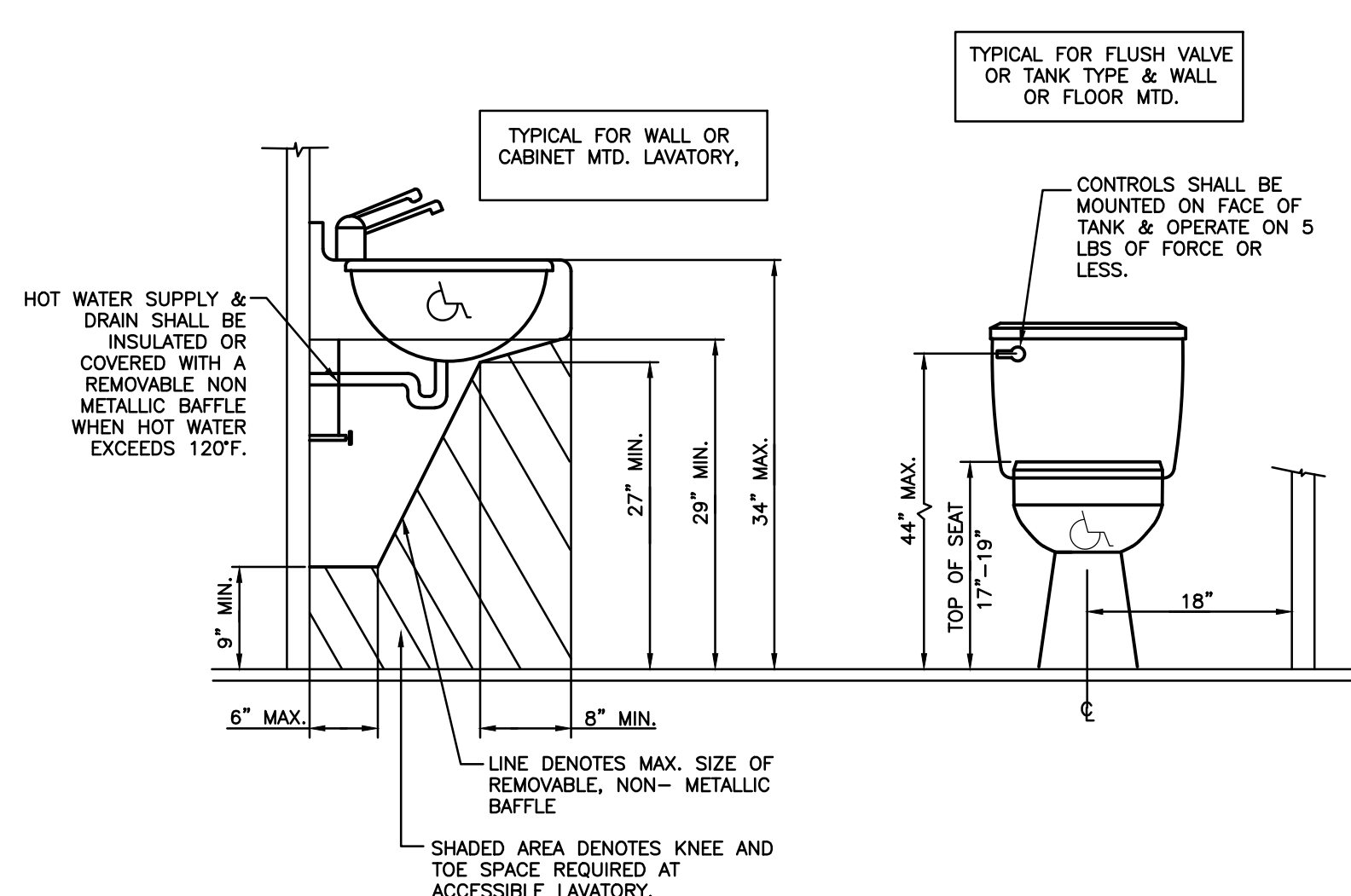
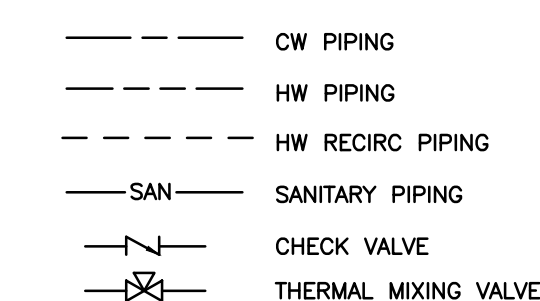
CIRCULATION PUMP SCHEDULE							
TAG	ELECTRIC DATA			HYDRONIC DATA		BASIS OF DESIGN	
	FLA	MOCP	VOLT PHASE	FLOW		MFR	MODEL
	AMPS	AMPS		GPM			
CP	1	15	120/1	20		TACO	007



WATER HEATER DETAIL

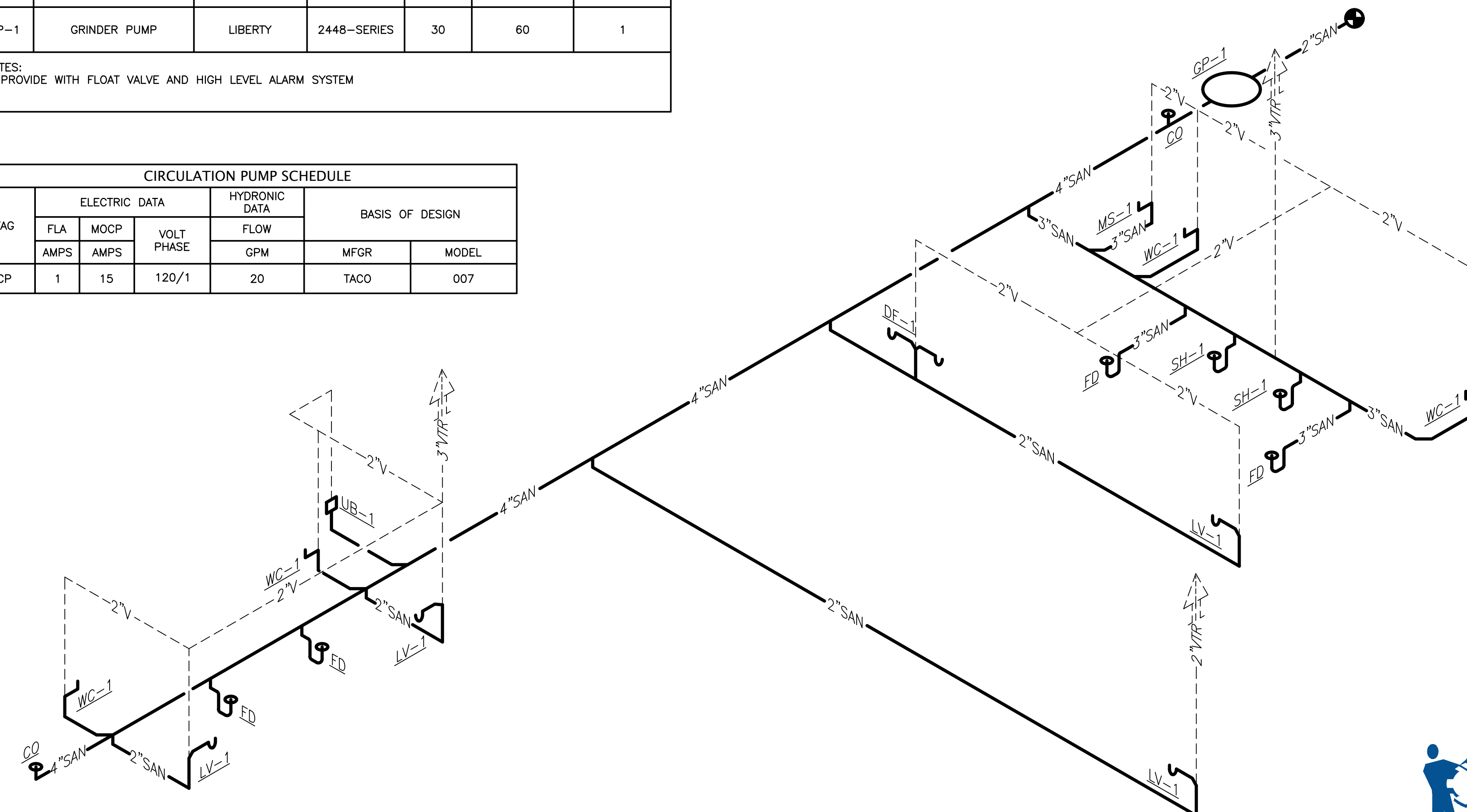
SCALE: N.T.S.

PLUMBING SYMBOL LEGEND



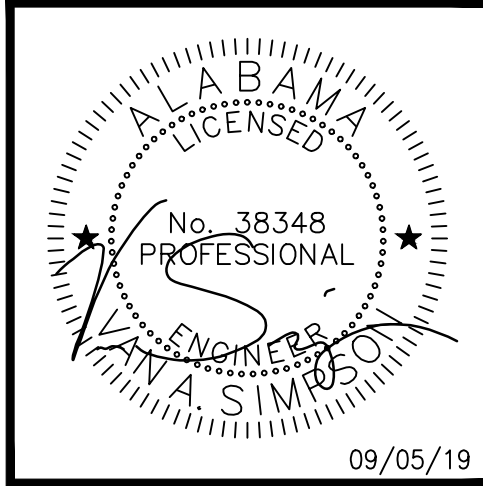
ADA PLUMBING FIXTURE DETAIL

SCALE: N.T.S.



SANITARY RISER

SCALE: N.T.S.



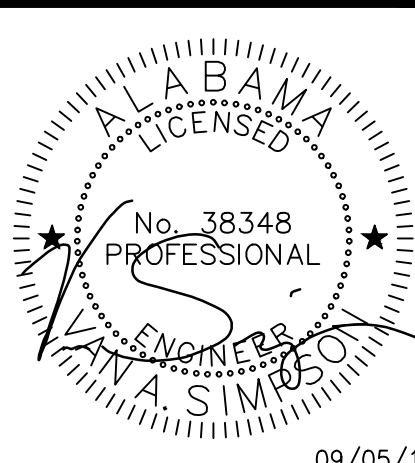
A NEW BUILDING FOR ORANGE BEACH SEWER DEPT. ORANGE BEACH ALABAMA

JOB NO.:
 DRAWN: VAS
 CHECKED: CJD
 DATE: 2019.09.05
 REVISION: 1

SCALE: NONE

SHEET NO.:

P0.1

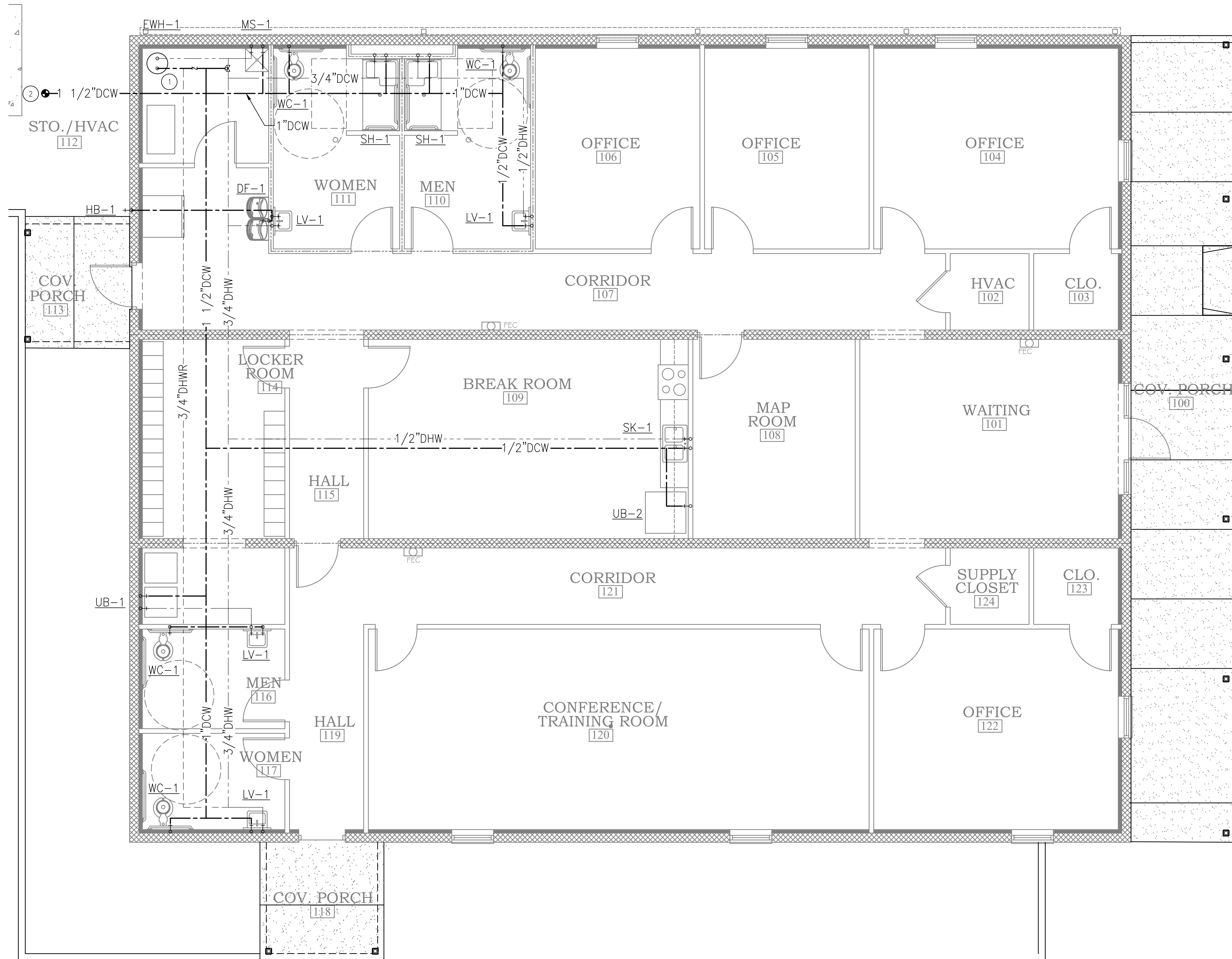


KEYED NOTES:

- ① CONTRACTOR TO FURNISH AND INSTALL HOT WATER RECIRCULATION PUMP IN ACCESSIBLE LOCATION.
- ② SEE CIVIL PLAN FOR CONTINUATION.

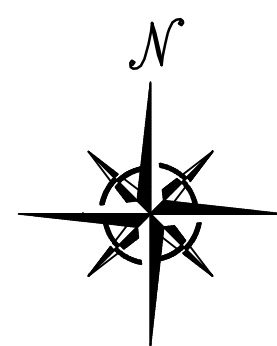
NOTES:

- 1. MOP SINK TO RECEIVE 140°F WATER, ALL OTHER FIXTURES TO RECEIVE 110°F WATER BY USE OF ASSE 1070 COMPLIANT TEMPERATURE LIMITING VALVE



PLUMBING PLAN

1/4"=1'-0"



A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

JOB NO.:	
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REVISION:	1

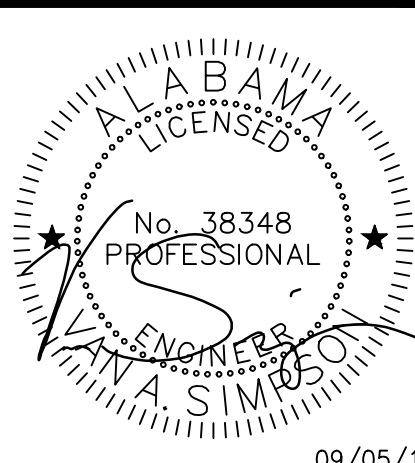
SCALE: 1/4"=1'-0"

SHEET NO.:

P1.1

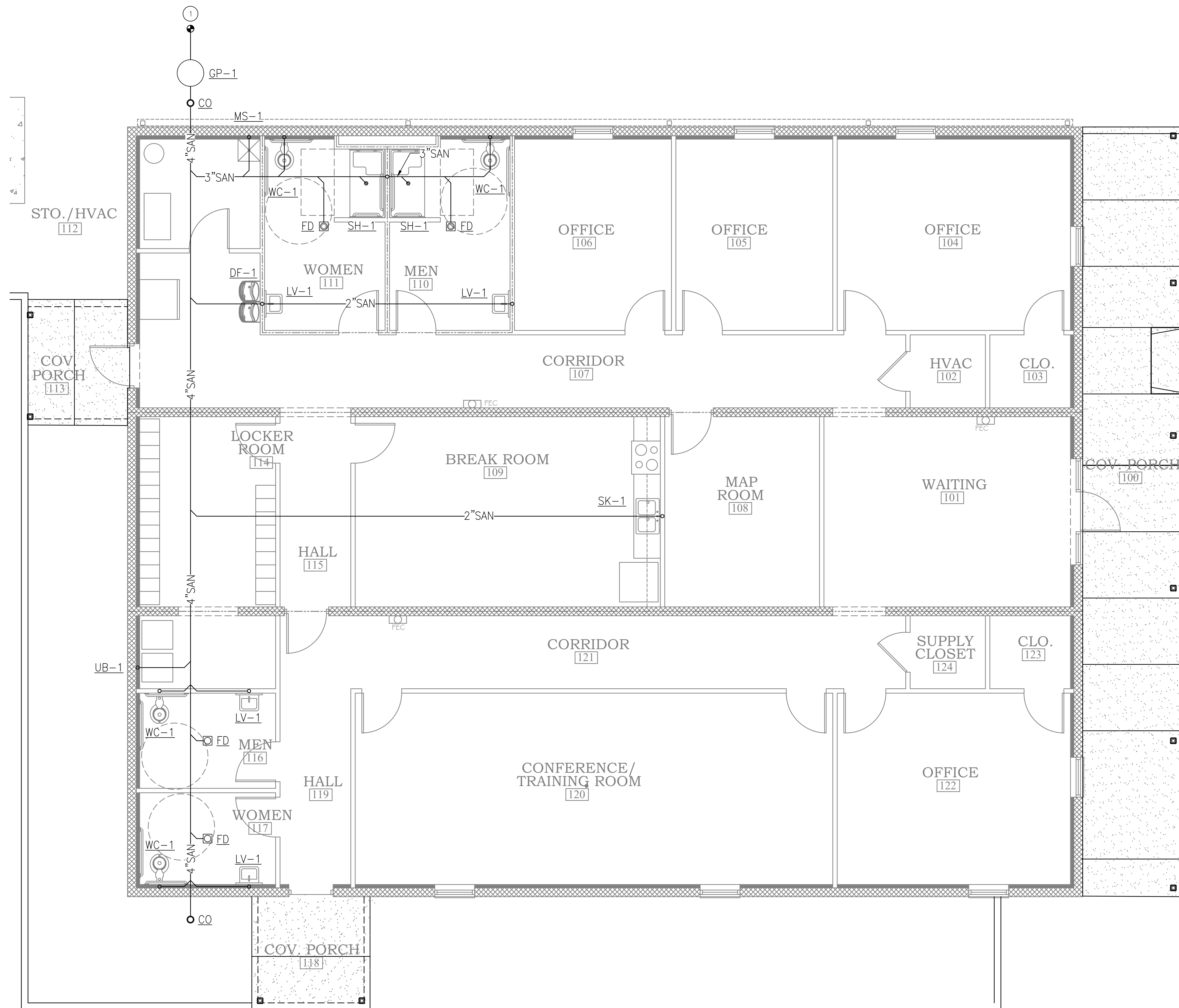
PLUMBING
PLAN



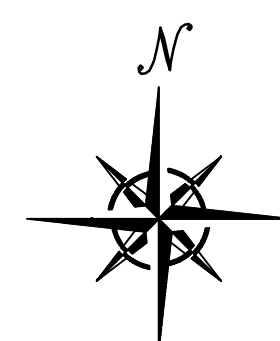


KEYED NOTES:

1 SEE CIVIL PLAN FOR CONTINUATION.



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



A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: VAS
CHECKED: CJD
DATE: 2019.09.05
REVISION: 1

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

SHEET NO.:

P1.2

SANITARY
PLAN



GENERAL HVAC NOTES

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2015 INTERNATIONAL MECHANICAL CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR SHALL BE MADE OF CONTINUOUS SHEET METAL AND SHALL BE FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
- DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATION CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCT TYPE SHALL BE APPROVED BY APPLICABLE CODE AND MECHANICAL ENGINEER.
- ALL RETURN AND SUPPLY AIR DUCTWORK WITHIN 20'-0" OF AIR HANDLING EQUIPMENT SHALL BE DUCT LINED FOR SOUND ATTENUATION. REMAINING DUCT SHALL INSULATED WITH MINERAL FIBER DUCT WRAP.
- ALL RETURN AND SUPPLY AIR DUCTWORK, THAT IS NOT LINED, SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, INSTALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND DUCTWORK IN CONDITIONED SPACE DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
- FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 6'-0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
- ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
- ALL LOW VOLTAGE WIRING REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
- CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- TEST & BALANCE ALL SUPPLY, RETURN & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS. SUBMIT REPORT AS PER SPECIFICATIONS.
- ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR UNITS.
- IN THE EVENT THAT CERTAIN WORK REQUIRES INCIDENTAL DAMAGE TO THE BUILDING, FINISHES OR PROPERTY TO COMPLETE THE WORK, THE CONTRACTOR FURNISH ALL REPAIR NECESSARY TO DELIVER TO THE AFFECTED AREA BACK TO OWNER THAT MEETS OR EXCEEDS THE CONDITION PRIOR TO DAMAGE.
- VERIFY EXISTING CONDITIONS WHERE FANS ARE SCHEDULED FOR REPLACEMENT PRIOR TO EQUIPMENT ORDER.
- ALL AIR DISTRIBUTION SYSTEMS THAT SUPPLY AIR CAPACITY GREATER THAN 2000 CFM REQUIRE A SMOKE DETECTION SYSTEM MOUNTED IN THE SUPPLY SIDE UPSTREAM OF FIRST BRANCH. IN THE CASE WHERE SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATION A REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION.

HVAC SYMBOL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- INTAKE AIR
- ⊕ THERMOSTAT

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																						
MARK NO.	AREA SERVED	TONS	TOTAL CFM	O.A. (CFM)	SEER	CLG CAP.		HTG CAP.		INDOOR UNIT				OUTDOOR UNIT (2-STAGE HEAT/COOL)					NOTES			
						TOTAL MBH	SENS. MBH	CAPACITY MBH	AUX. HEAT KW	VOLT PHASE	HP #SPEEDS	E.S.P.	MCA	MOCP	VOLT PHASE	COMP. RL-LR	FAN FLA (AMPS)	MCA		MOCP	WEIGHT (LBS)	
AHU-1	HP-1	CONFERENCE	5	2000	250	15	60	45	50	7.68	240/1	1 HP	0.5	50	50	240/1	23.7-152.5	2.8	34	50	248	ALL
AHU-2	HP-2	OFFICE/KITCHEN	5	2000	250	15	60	45	50	7.68	240/1	1 HP	0.5	50	50	240/1	23.7-152.5	2.8	34	50	248	ALL

NOTES:
 1. FURNISH WITH 2-STAGE COOL, DIGITAL, PROGRAMMABLE THERMOSTAT WITH REMOTE BULB LOCATED IN AHU RETURN.
 2. FURNISH WITH DRAIN PAN FLOAT SWITCH FOR AHU SHUTDOWN.
 3. FURNISH WITH LOW AMBIENT CONTROLS.
 4. FURNISH WITH ANTI-SHORT CYCLE TIMER.
 5. FURNISH WITH EVAPORATOR DEFROST CONTROL.
 6. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.
 7. FASTEN OUTDOOR UNITS TO HOUSEKEEPING PAD.
 8. FURNISH WITH RETURN MOUNTED SMOKE DETECTOR.

VENTILATION CALCULATION									
ROOM	APPROX ROOM SIZE (SF) "Az"	VENTILATION REQUIREMENTS	OCCUPANCY VALUES "Pz"		VENTILATION RATES "Vbz"		ADJUSTED OUTSIDE AIR RATE (CFM)	EXHAUST AIR RATE AS DESIGNED (CFM)	REMARKS
		IMC 2009 TABLE 403.3	IMC 2009 TABLE 403.3	PEOPLE REQUIRED PER DESIGN	IMC 2009 TABLE 403.3	IMC 2009 TABLE 403.3			
OFFICE	1500	5/1000 5 CFM/PERSON + 0.06 CFM/SF	8	15	165	-	200		
CONFERENCE	500	50/1000 5 CFM/PERSON + 0.06 CFM/SF	25	25	155	-	200		
WAITING	250	10/1000 5 CFM/PERSON + 0.06 CFM/SF	2.5	3	30	-	38		
RESTROOMS	6 FIXTURES	70 CFM/FIXTURE	-	-	-	-	420	420	
LOCKERROOM	150	0.25/SF	-	-	-	-	37.5	40	

FAN PERFORMANCE DATA									
TAG	SERVICE	CFM	SONES	ELECTRICAL DATA			BASIS OF DESIGN		NOTES
				POWER	E.S.P.	VOLTAGE	MFR	MODEL	
EF-1,2	RESTROOMS	140	4	55W	0.25	120/1	GREENHECK	SP-A190	1-6
EF-3,4	RESTROOMS	70	4	50W	0.25	120/1	GREENHECK	SP-A90	1-6
EF-5	RESTROOMS	40	4	50W	0.25	120/1	GREENHECK	SP-A70	1-6

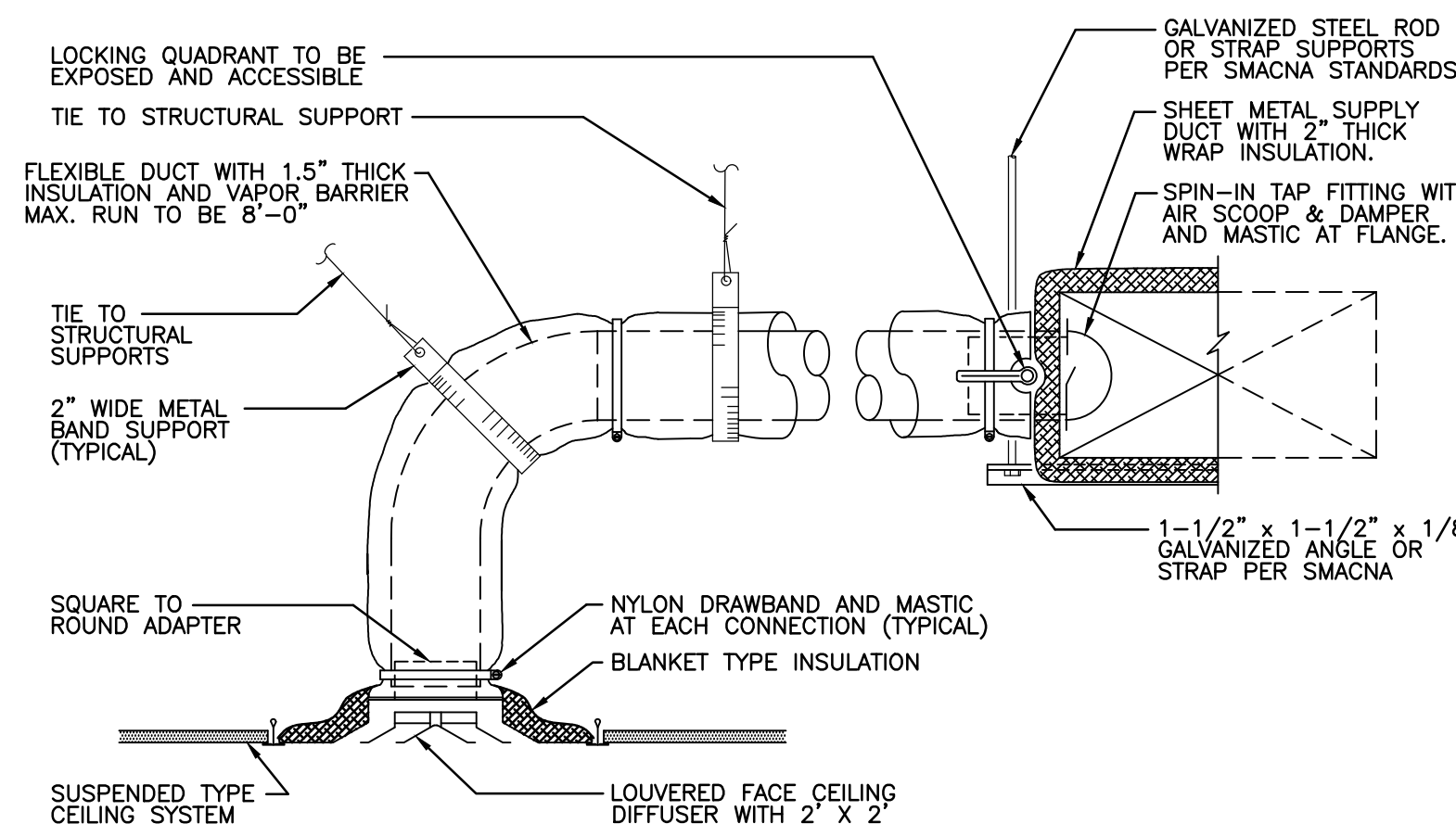
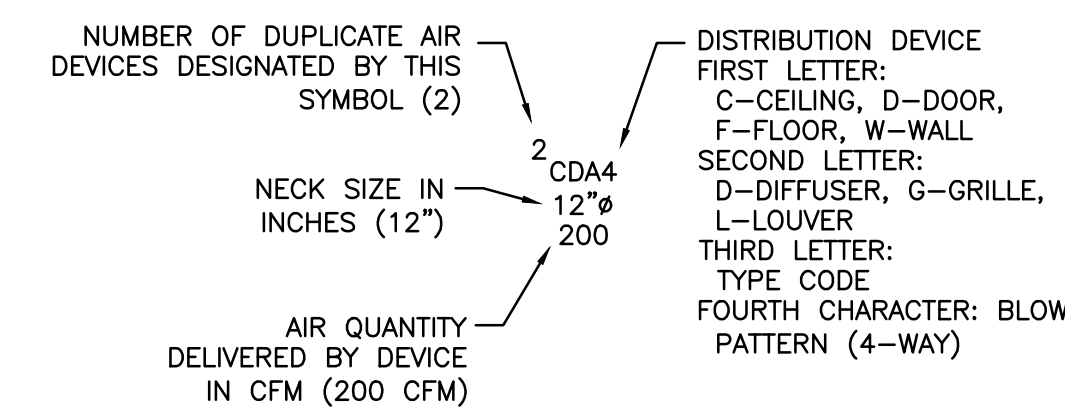
EQUIPMENT NOTES:
 MFR SPECIED IS "BASIS OF DESIGN" OR EQUAL. CONTRACTOR SHALL SUBMIT MFR, MODEL AND PERFORMANCE DATA.

- INTEGRAL DISCONNECT
- VIBRATION ISOLATION KIT
- INTEGRAL BACKDRAFT KIT
- FAN SPEED CONTROL
- ALUMINUM CEILING GRILL
- INTERLOCK WITH LIGHTING

AIR TERMINAL DEVICE SCHEDULE						
MARK	DESCRIPTION	MFR	MODEL	MATERIAL	NECK	NOTES
CD	CLG SUPPLY AIR GRILLE	TITUS	TMS	ALUM.	ROUND	ALL
CD2	CLG SUPPLY AIR GRILLE	TITUS	250AA	ALUM.	ROUND	ALL
CRAG	CEILING RETURN AIR GRILLE	TITUS	50F	ALUM.	RECT	ALL

NOTES:
 1. BASIS OF DESIGN - MAY SUBMIT EQUAL.
 2. FINISH SHALL BE VERIFIED W/ARCHITECT

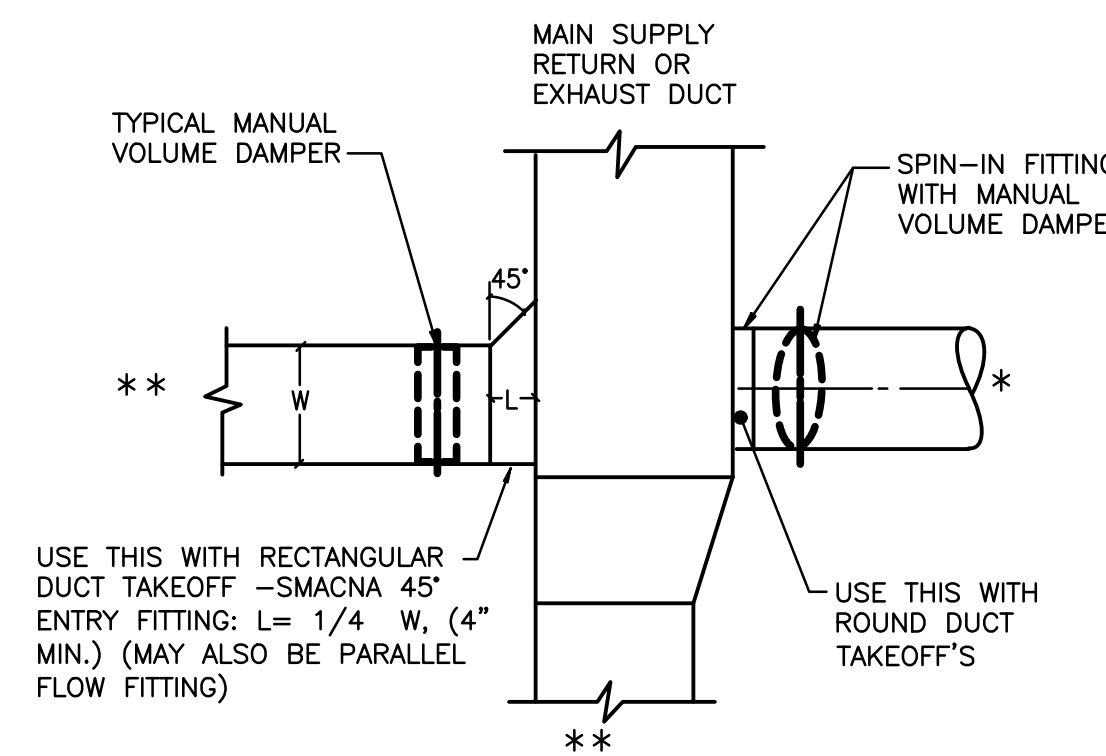
DIFFUSERS/GRILLES/LOUVERS



NOTE: FOR BRANCH DUCT CONNECTIONS IN EXCESS OF 8'-0" PROVIDE RIGID ROUND DUCT TO WITHIN 6'-0" OF DIFFUSER AND CONNECT WITH FLEXIBLE DUCT.

TYP. DIFFUSER & BRANCH CONNECTION

SCALE: N.T.S.



* = BRANCH TO INDIVIDUAL DIFFUSER OR GRILLE
 ** = SUBMAIN, BRANCHMAIN, OR BRANCH.

LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS

SCALE: N.T.S.

McColough ARCHITECTURE, INC.
 P.O. BOX 6310
 GULF SHORES, ALABAMA 36547-6310
 PHONE: 251-968-7222

09/05/19

A NEW BUILDING FOR ORANGE BEACH SEWER DEPT. ORANGE BEACH ALABAMA

JOB NO.:
 DRAWN: VAS
 CHECKED: CJD
 DATE: 2019.09.05
 REVISION:

SCALE: NONE
 SHEET NO.:

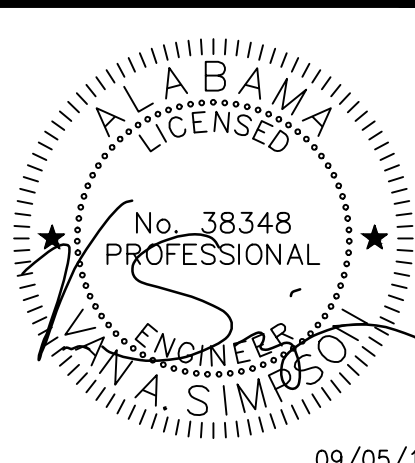
M0.1

NOTES AND SCHEDULES

GSE CONSULTING ENGINEERS
 Gulfport Mobile Nashville
 600 Azalea Rd. Mobile, AL 36609
 (T)251-460-4646 (F)251-460-4649

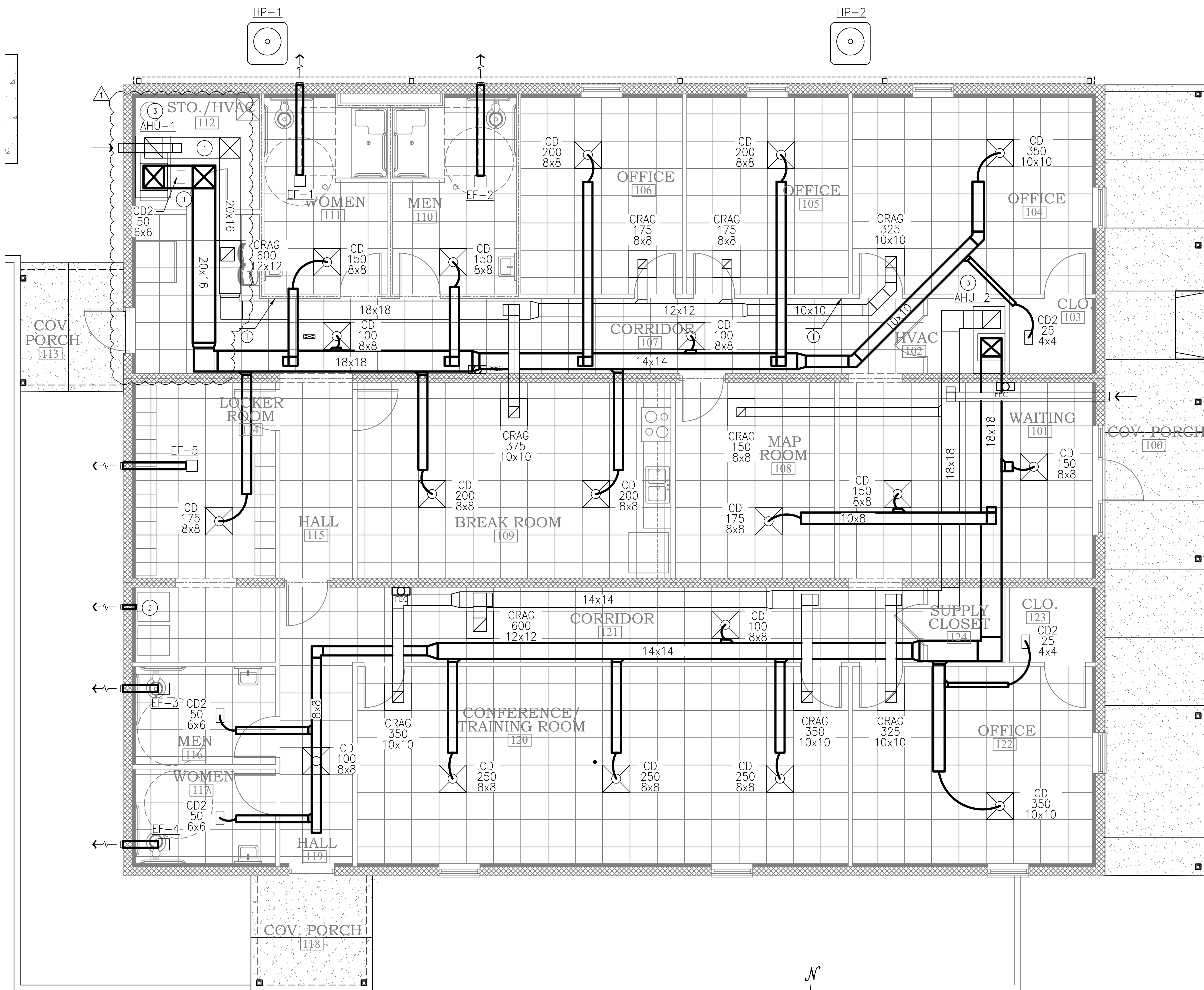


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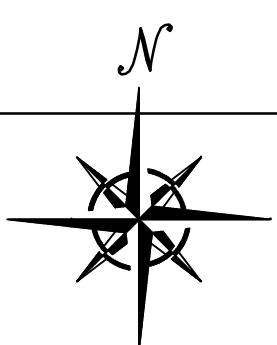


09/05/19

A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA



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



KEYED NOTES:

- 1 DUCT TO BE ROUTED BELOW FIRST JOIST AND TURN UP IN BETWEEN FIRST AND SECOND JOISTS.
- 2 ROUTE 4" DUCT THRU WALL FOR DRYER VENT, PROVIDE WALL CAP AND BACKDRAFT DAMPER.
- 3 CONTRACTOR TO INSTALL AHU ON FIELD ERECTED RETURN AIR PLENUM BOX.

NOTES:

- 1. COORDINATE WITH OWNER ON FINAL LOCATIONS OF THERMOSTATIC CONTROLS.

REVISIONS:

- 1 10/08/2019 - HVAC ROOM DUCT REVISION



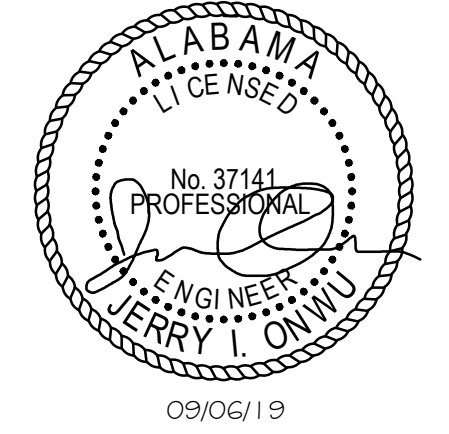
JOB NO.:
DRAWN: VAS
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REVISION:

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

SHEET NO.:

M1.1

HVAC
PLAN



ORANGE BEACH SEWER DEPT. ALABAMA

NOTES

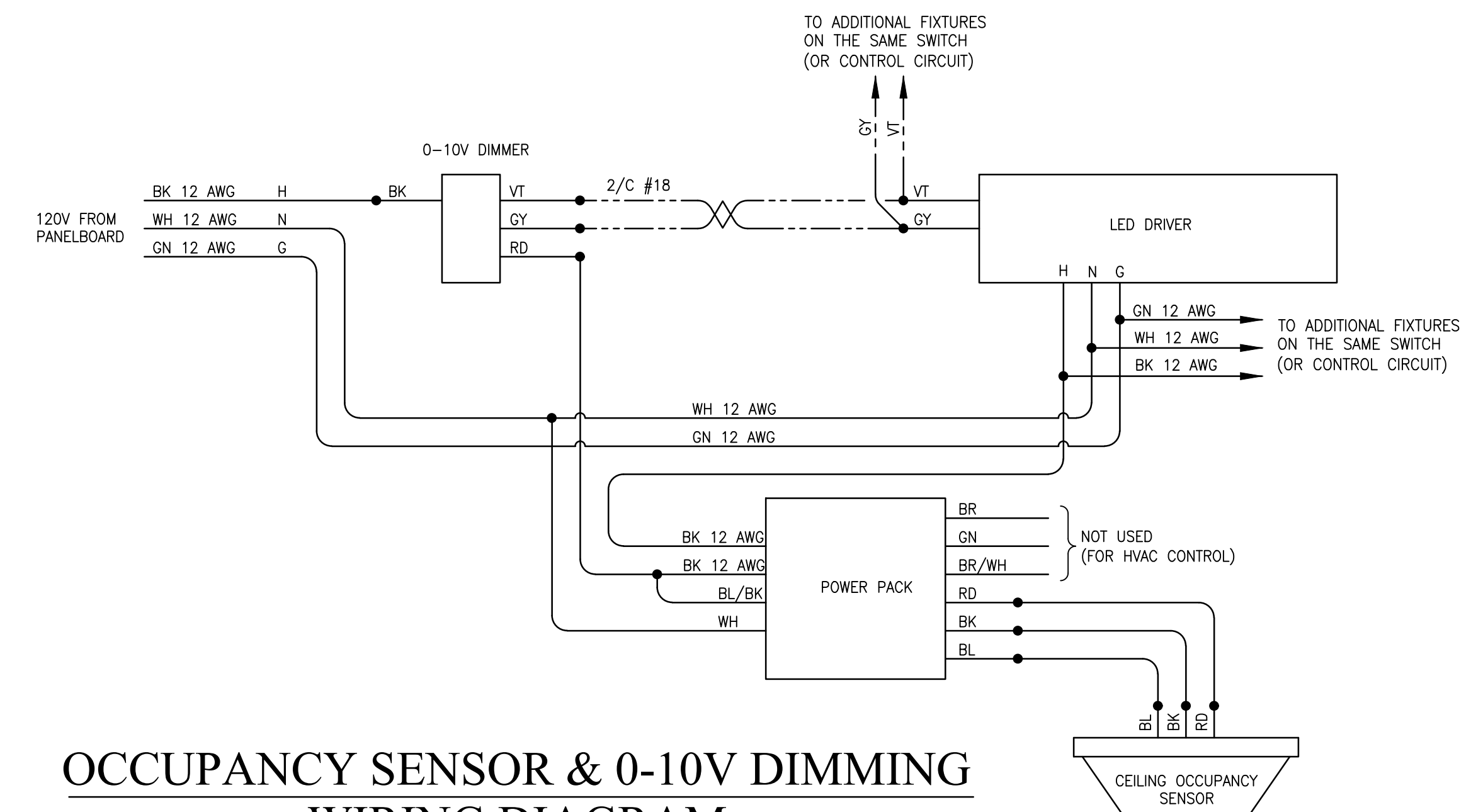
- 1. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. 2x4 TROPPERS SHALL BE SUPPORTED WITH CABLE FROM ALL FOUR CORNERS.
2. FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING SEVENTY FIVE (75) FEET FROM THE PANEL BOARD, USE #10 AWG MIN.
3. ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE.
4. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
6. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED.
7. BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
8. GROUND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER N.E.C.
9. ALL CIRCUIT BREAKERS IN PANEL SHALL BE FULLY RATED
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH OWNER SUPPLIED SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
11. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.
12. ALL BUILDING SYSTEM GROUND RODS SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING SYSTEM. GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250.
13. THE WORD "PROVIDE" MEANS FURNISH AND INSTALL.
14. MC CABLE IS ALLOWED AS A VE ALTERNATE.
15. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
16. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND NECESSARY EQUIPMENT FOR LIGHT FIXTURE MOUNTING, AND INSTALLATION.
17. ALL FIRE BARRIER PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE SEALANT. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL RATED WALLS AND CEILINGS PRIOR TO BID SO AN UNDERSTANDING OF NUMBER OF SEALS REQUIRED, AND DETERMINE METHOD FOR MINIMIZING THE SEAL REQUIREMENTS.

OCCUPANCY SENSOR & 0-10V DIMMING WIRING DIAGRAM

NONE

LEGEND

- Specification Grade Duplex Receptacle - 20 AMP, 125V, Tamper Proof Heavy Duty, MTD, 16" A.F.F. Unless Noted, with Matching Faceplate.
Specification Grade Duplex Receptacle - 20 AMP, 125V, Tamper Proof, with USB Charging Ports, MTD, 16" A.F.F. Unless Noted, with Matching Faceplate.
Specification Grade Weather Resistant Duplex Receptacle - Tamper Proof with Ground Fault Interrupt, MTD, 16" A.F.F. Unless Noted, with Weather-Proof in Use Cover.
Specification Grade Duplex Receptacle - Tamper Proof with Ground Fault Interrupt, MTD, 16" A.F.F. Unless Noted, with Matching Faceplate.
C INDICATES DEVICE MOUNTED 2" ABOVE BACKSPASH UNLESS NOTED, COORDINATE IN FIELD.
20A 240V Simplex Receptacle, MTD, as required by equipment being served, coordinate in field, provide S.S. faceplate.
Specification Grade 20A-1P Toggle Switch, Heavy Duty, White Color, Mounted @ 48" A.F.F. w/ Matching Faceplate.
Specification Grade 20 AMP Three Way Toggle Switch, Heavy Duty, White Color, Mounted @ 48" A.F.F. w/ Matching Faceplate.
Specification Grade Triac Dimmer Switch White Color, Mounted @ 48" A.F.F. w/ Matching Faceplate.
Specification Grade 0-10V LED Dimmer/Occupancy Switch White Color, Mounted @ 48" A.F.F. w/ Matching Faceplate, Steinel DT WLS Dim.
Specification Grade Wall Mounted Occupancy Switch White Color, Mounted @ 48" A.F.F. w/ Matching Faceplate, Steinel DT WLS 1W U22.
VOICE/DATA OUTLET, MOUNTED @ 16" A.F.F. WITH MATCHING FACEPLATE, MTD, 16" A.F.F. UNLESS NOTED. RUN (2) CAT 6 CABLES FROM OUTLET TO DATA/TEL BACKBOARD.
VOICE/DATA OUTLET, FLOOR MOUNTED. WITH FACEPLATE. RUN (2) CAT 6 CABLES FROM OUTLET TO DATA/TEL BACKBOARD.
COMPUTER DATA OUTLET BOX MTD @ 16" A.F.F. UNLESS NOTED FLUSH MOUNTED 1 GANG WALL BOX. CONTRACTOR TO RUN (2) CAT 6 CABLES FROM OUTLET TO DATA/TEL BACKBOARD.
EXHAUST FAN
LIGHTING FIXTURE, SEE FIXTURE SCHEDULE
JUNCTION BOX LOCATION MOUNTED AS NOTED ON DRAWING, SIZED AS REQUIRED BY EQUIPMENT BEING SERVED.
DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.
HOME RUN CONDUIT, CIRCUIT NUMBER AS INDICATED ON DRAWINGS, HASHMARKS INDICATE HOT NEUTRAL AND GROUND.
CONDUIT RUN IN FLOOR OR SLAB.
CONDUIT RUN IN WALLS OR CEILING.
FAN CONTROLLER
CEILING FAN BY E.C. DIAMETER AND FINISH BY ARCHITECT.
P.O.E. WIRELESS ACCESS POINT CONNECTION. INSTALL (1) CAT 6 CABLE TO DATA RACK.
POWER/DATA/TV/AV FLUSH WALL BOX, MOUNTED @ 72" A.F.F., BEHIND TV. SEE DRAWING NOTES AND FLUSH WALL BOX DETAIL FOR ADDITIONAL INFORMATION.
COMBINATION POWER & COMMUNICATIONS FLUSH FLOOR BOX WITH AUDIO VISUAL ROUGH-IN PROVISION. SEE DETAIL.



ELECTRICAL SPECIFICATIONS

DIVISION 16 - ELECTRICAL SPECIFICATIONS

- PART I. GENERAL PROVISIONS
SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.
A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: PANELBOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; MOTOR STARTERS; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT.
2. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY FURNISHING THE SERVICES. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.
3. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND BUILDING SERVICE OF THREE PHASE, FOUR WIRE, 60 HERTZ.

PART II. MATERIALS

- MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED.
A. PANELBOARDS: PANELBOARDS SHALL BE BOLT-IN CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF PANELBOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, AND MEET UL 87, UL 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS. ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS. PANEL "MDP" SHALL BE UL LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. APPROVED MANUFACTURERS OF PANELS ARE SQUARE D, CUTLER-HAMMER, GENERAL ELECTRIC AND SIEMENS.
B. LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE UL LISTED, COMMERCIAL QUALITY.
C. WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP, DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE. SWITCHES IN THE SAME LOCATION SHALL BE GANGED BEHIND A SINGLE PLATE. DEVICE PLATES SHALL BE METAL, ALUMINUM OR STAINLESS STEEL. APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, LEVITON, PASS & SEYMOUR, OR EQUAL

OTHER WIRING:

- A. FURNISH AND INSTALL ALL POWER WIRING AND CONDUIT AS INDICATED ON THE DRAWINGS FOR ALL EQUIPMENT. DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED FOR EACH UNIT OF HVAC AND OTHER REQUIRED EQUIPMENT. BEFORE ENERGIZING ANY EQUIPMENT, VERIFY THAT THE CORRECT POWER SUPPLY VOLTAGE, AMPACITY, AND PHASING HAS BEEN PROVIDED AT THE LOAD SIDE OF THE DISCONNECT.
10. EMPTY CONDUIT: LEAVE A #12 AWG PULL WIRE IN ALL EMPTY CONDUITS.
11. BOXES AND WIRERAYS: ALL JUNCTION BOXES, PULL BOXES, WIRERAYS, ETC. SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
12. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT. EQUIPMENT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH ENGRAVED LAMINATED NAMEPLATES ATTACHED WITH STAINLESS STEEL FASTENERS. ELECTRICAL EQUIPMENT NOT VISIBLE TO THE PUBLIC MAY BE NEATLY IDENTIFIED WITH BLACK PERMANENT MARKERS.

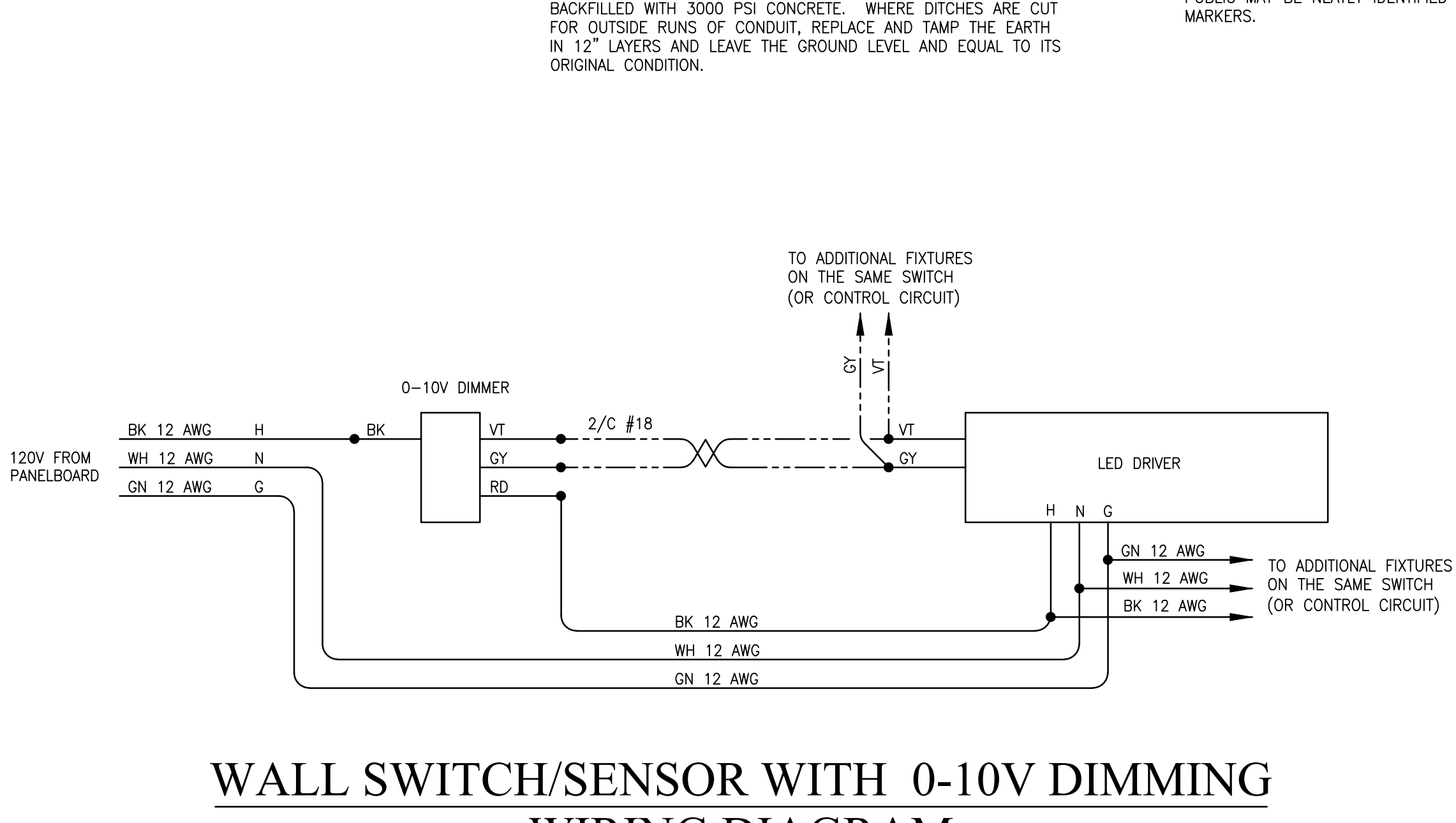
- LVD LOW VOLTAGE DIMMER CONTROLLER STEINEL LV1-U22(FINISH).
LV LOW VOLTAGE CONTROLLER STEINEL LV1-U22 (FINISH).
OC DUAL TECHNOLOGY WALL OCCUPANCY SWITCH, STEINEL DT-WLS1-U22.
CEILING MOUNTED OCCUPANCY STEINEL DT QUATRO-COM-24-U22.
LOW VOLTAGE WIRING. SEE MANUFACTURER DRAWINGS FOR MORE INFORMATION.
POWER PACK STEINEL TR-100-U22.
CEILING MOUNTED SMOKE DETECTOR
AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
FLUSH MOUNTED VIBRATING HORN WITH VISUAL FLASHER.
WEATHER PROOF FLUSH MOUNTED VIBRATING HORN WITH VISUAL FLASHER.
FLUSH MOUNTED VISUAL FLASHER.
FLUSH MOUNTED PULL STATION.
WATER FLOW SWITCH.
TAMPER SWITCH.
MOTOR STARTER
ENCLOSED RELAY MODULE
FIRE ALARM CONTROL PANEL
FIRE ALARM REMOTE ANNUNCIATOR
ENCLOSED MONITORING MODULE
KNOX BOX FOR BUILDING KEYS
SECURITY CAMERA, POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM CAMERA TO SECURITY PANEL
WIRELESS ACCESS POINT, POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM CAMERA TO SECURITY PANEL
CABLE TV OUTLET WITH COAX CABLE BACK TO TELEPHONE BACKBOARD.
CEILING MOUNTED PA, MUSIC SPEAKER.
3/4" CONDUIT STUB UP FROM UNDERGROUND FOR SPEAKER WIRING. HOME RUN CONDUIT TO BACK OF HOUSE FOR CONNECTION TO SOUND EQUIPMENT.
OUTDOOR PA, MUSIC WEATHER-PROOF SPEAKER. ALL ON ZONE 2
20A 20A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH MATCHING FACEPLATE.
30A 30A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH MATCHING FACEPLATE.

NOTE:

1. ALL DEVICE COLORS SHALL BE CHOSEN BY ARCHITECT.

WALL SWITCH/SENSOR WITH 0-10V DIMMING WIRING DIAGRAM

NONE



JOB NO.:
DRAWN: SS
CHECKED: JO
DATE: 2019.07.23
REVISION: 1

SCALE: NONE

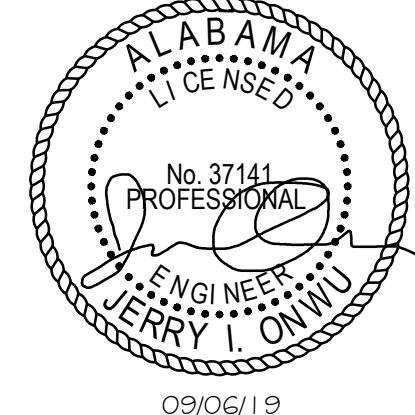
SHEET NO.:

E0.1

NOTES, LEGENDS AND SCHEDULES



**McColough
ARCHITECTURE, INC.**
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: SS
CHECKED: JO
DATE: 2019.07.23
REVISION: 2

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

SHEET NO.:

E1.1

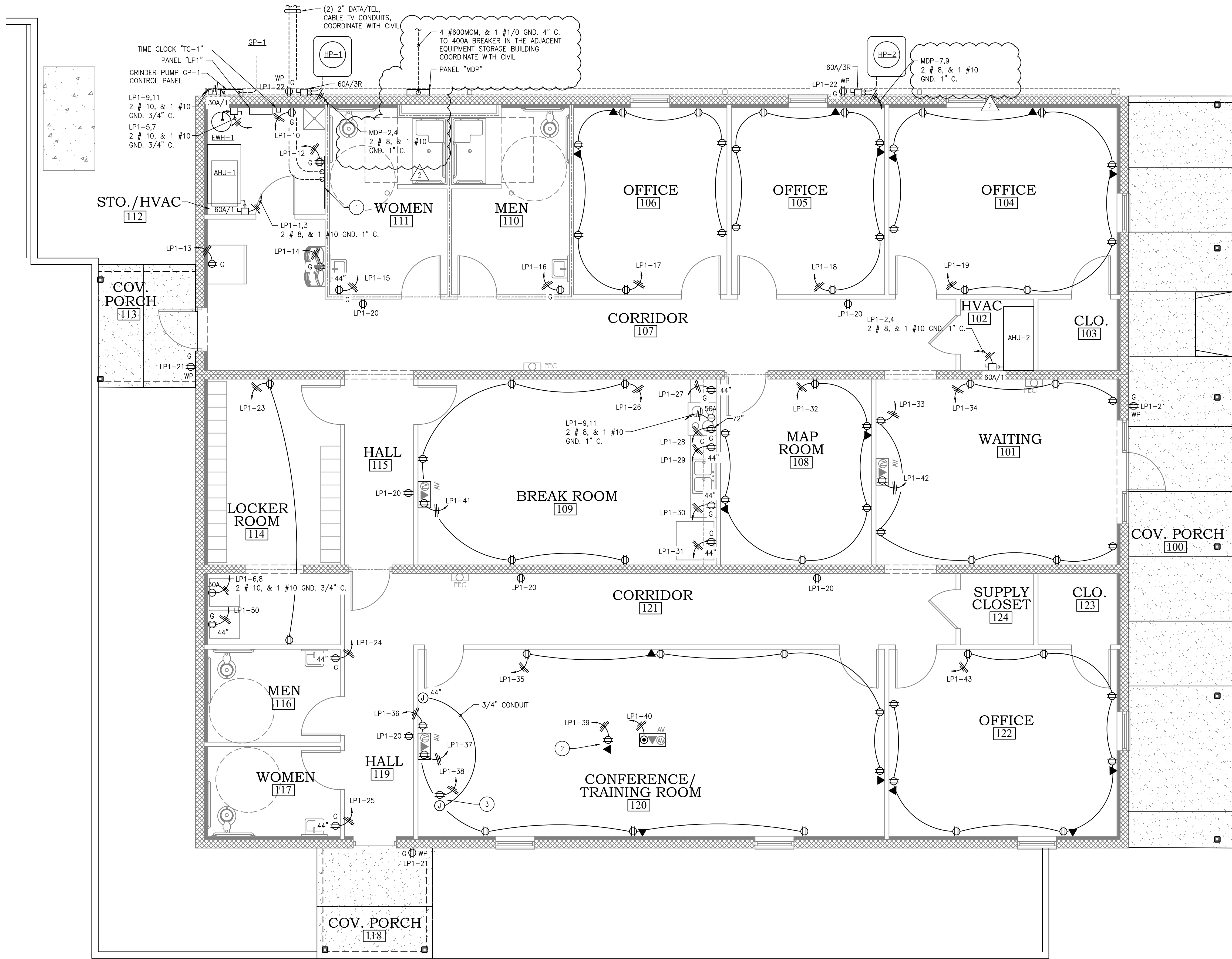
POWER
PLAN

KEYED NOTES:

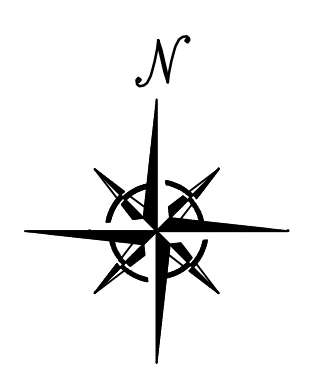
- 1 48"x48"x3/4" PLYWOOD TELEPHONE BACKBOARD, PROVIDE #6 CU GROUNDING CONDUCTOR FROM BACKBOARD TO SERVICE ENTRANCE POINT GROUNDING BUS.
- 2 RECEPTACLE AND DATA OUTLET IN CEILING FOR CEILING MOUNTED PROJECTOR.
- 3 RECEPTACLE AND JUNCTION BOX IN CEILING FOR MOTORIZED DROP DOWN SCREEN.

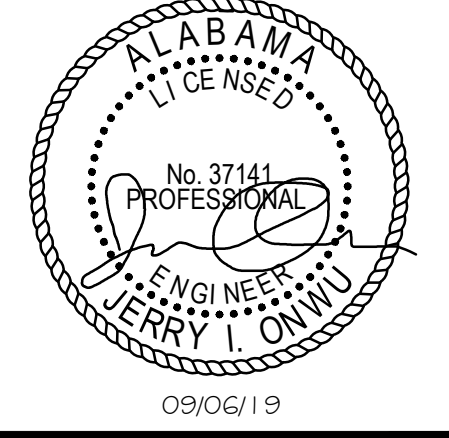
NOTES:

- 1. SEE E1.2 FOR DATA, FLOORBOX AND TV OUTLET DETAILS.

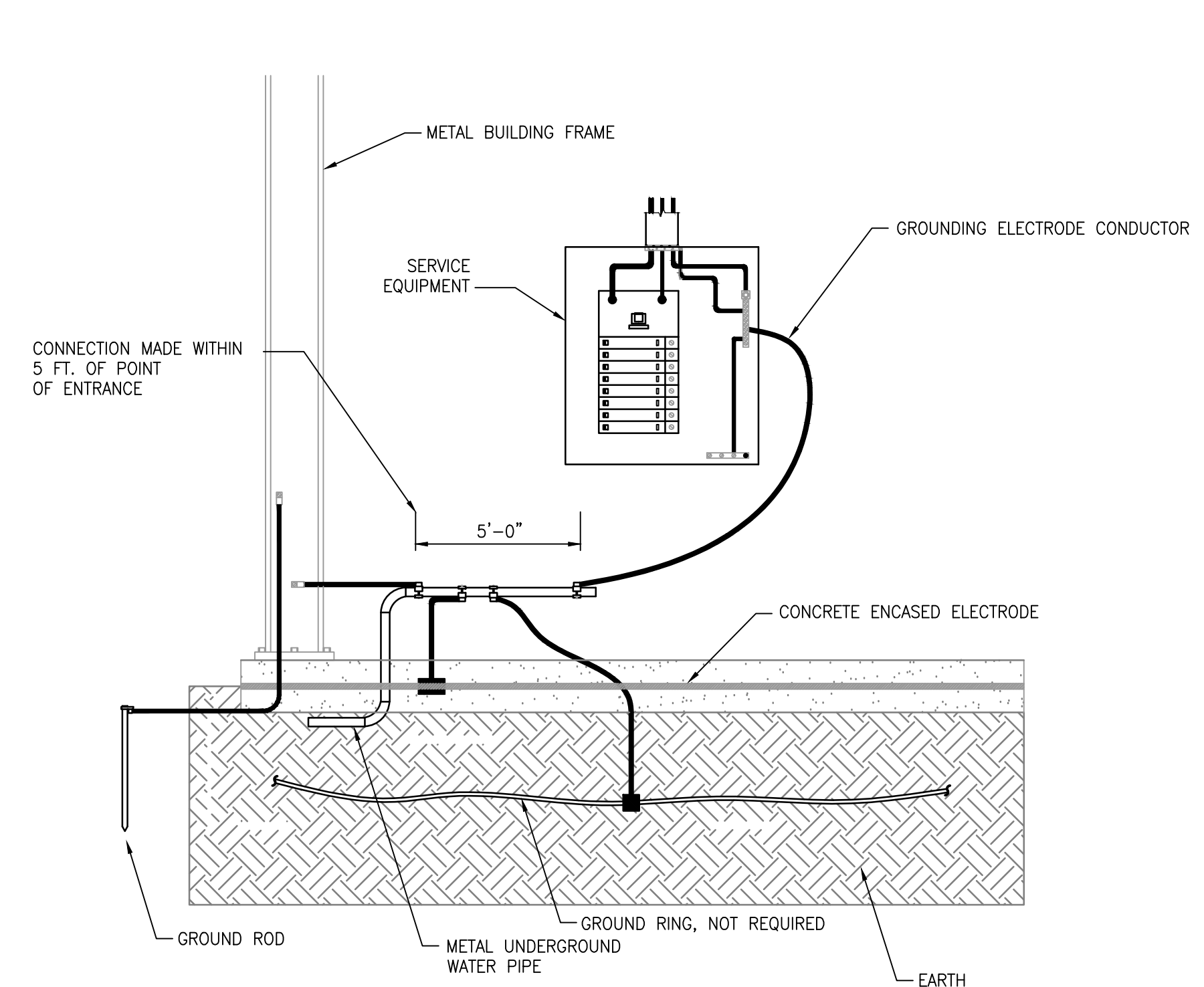
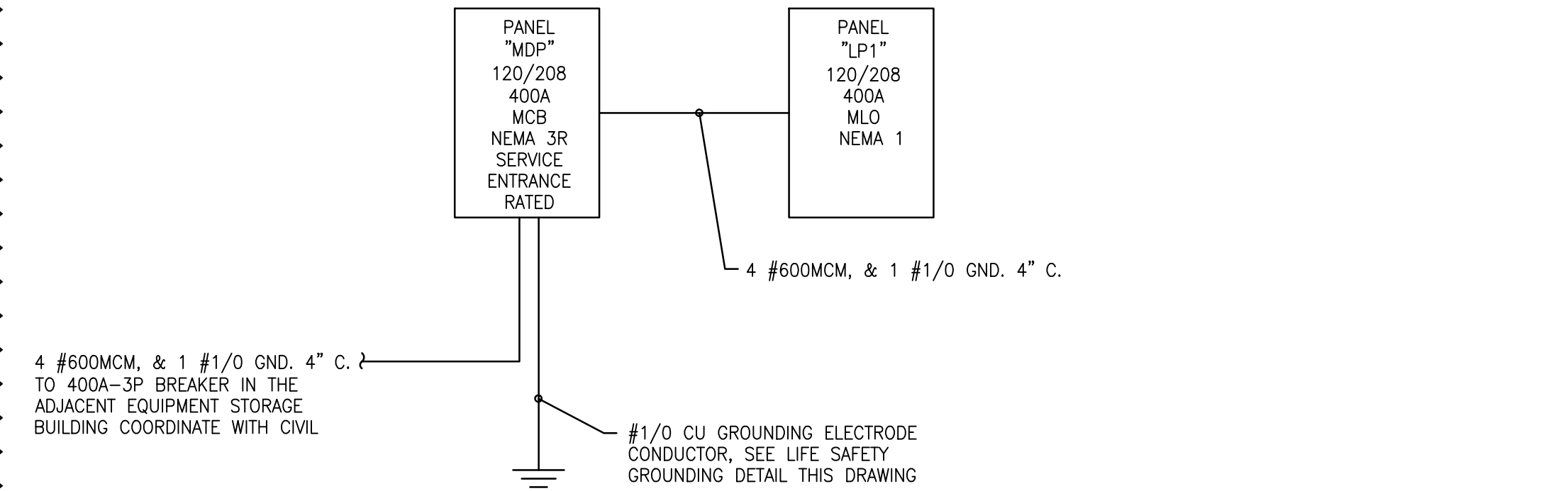
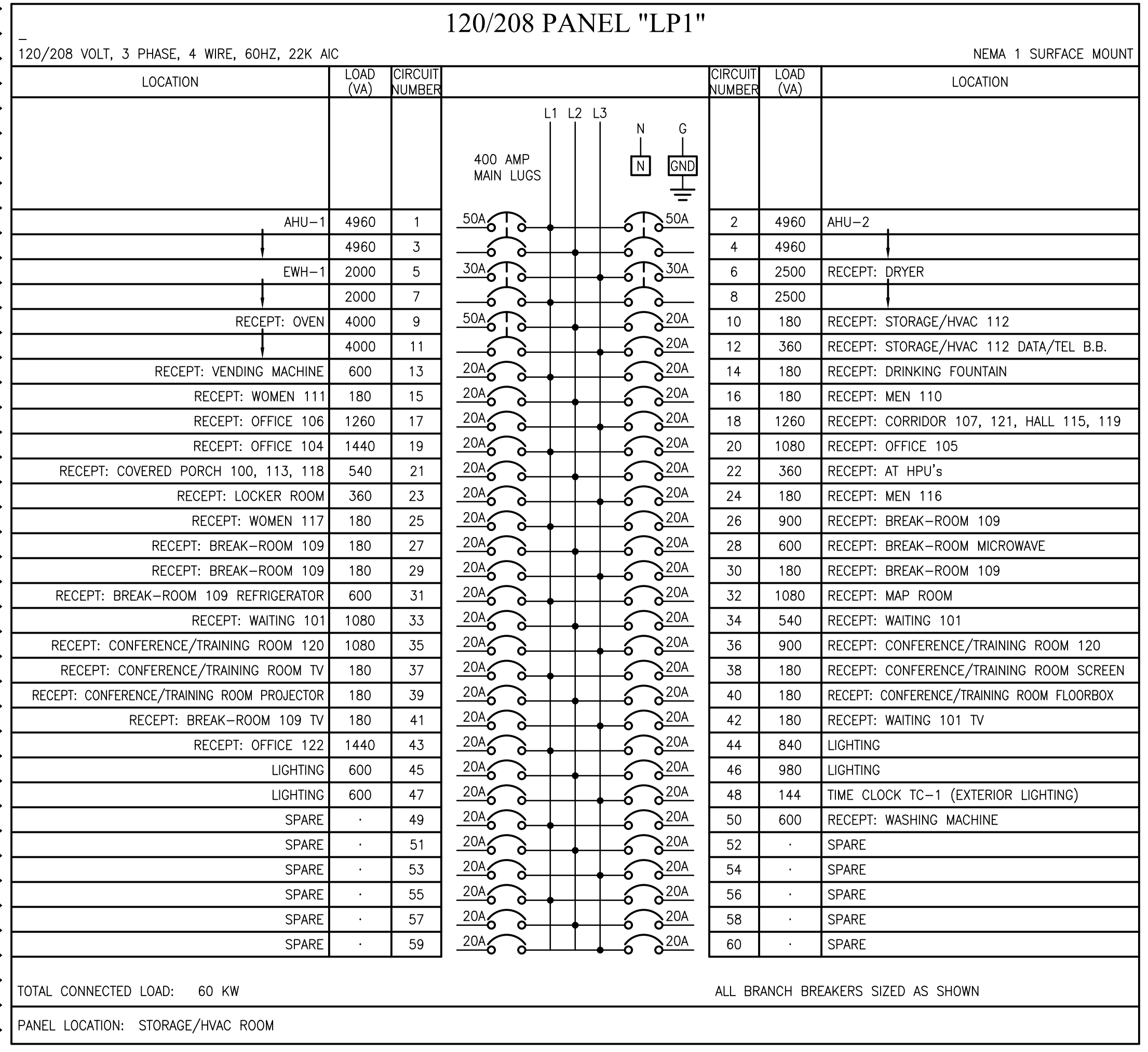
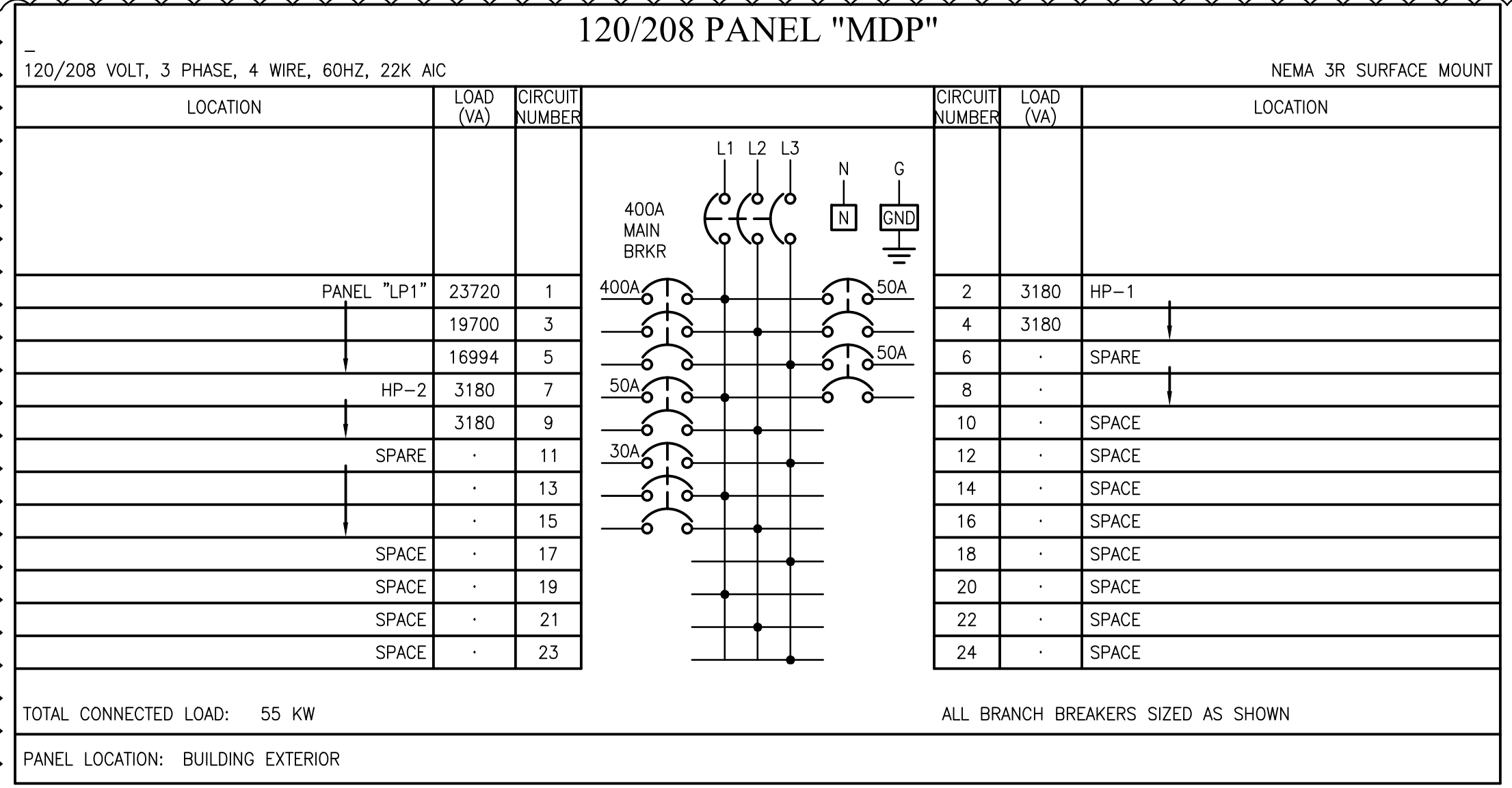


POWER PLAN
1/4"=1'-0"





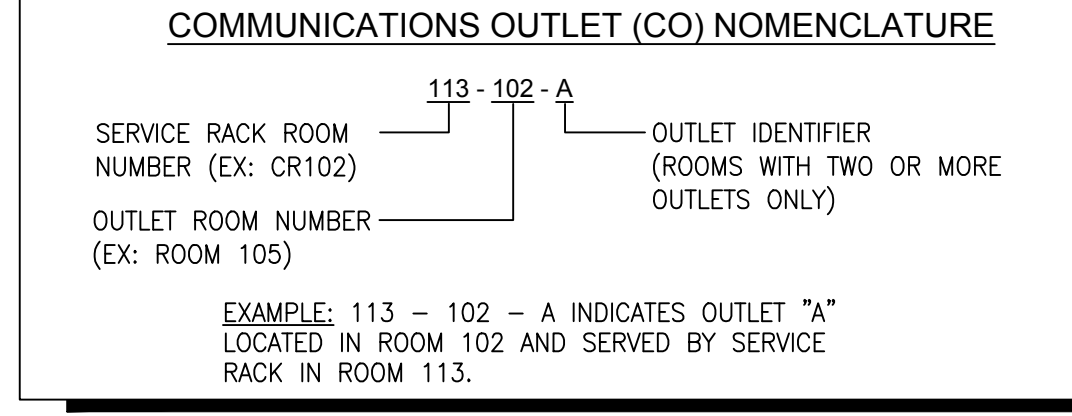
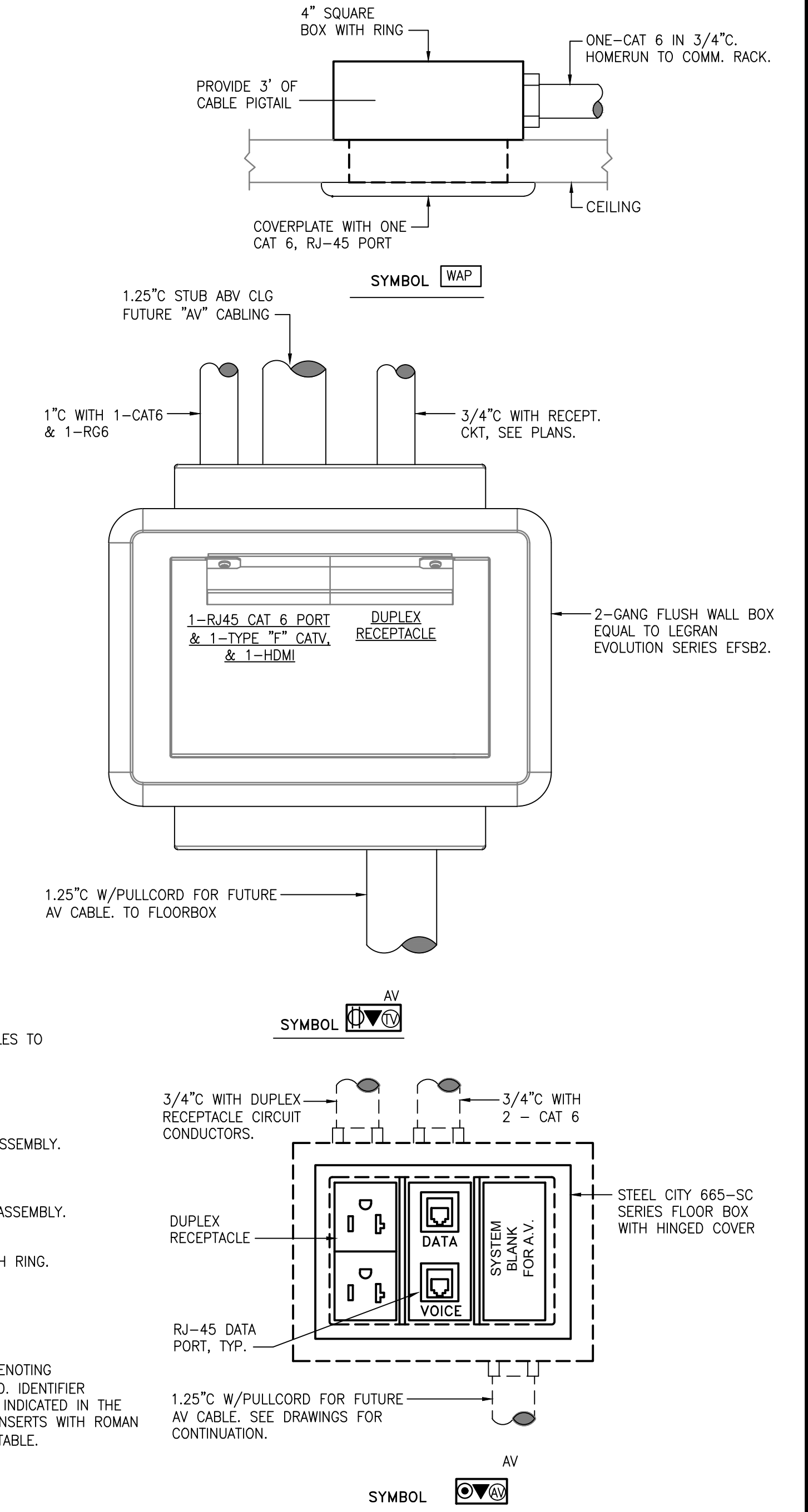
A NEW BUILDING FOR ORANGE BEACH SEWER DEPT. ORANGE BEACH ALABAMA



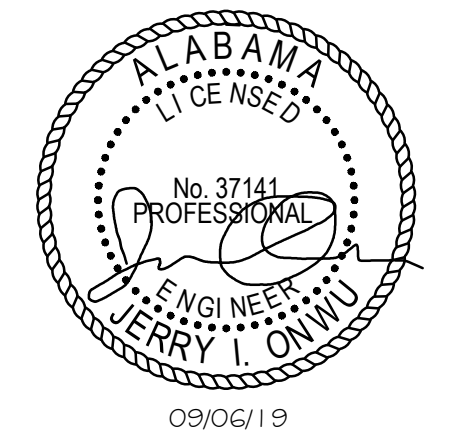
LIFE SAFETY GROUNDING DETAIL

SCALE: NONE

NOTE: PER NEC ARTICLE 250 SECTION III 250.50 ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(6) THAT ARE AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(7) SHALL BE INSTALLED AND USED.



JOB NO.:	
DRAWN:	SS
CHECKED:	JO
DATE:	2019.07.23
REVISION:	2
SCALE:	NONE
SHEET NO.:	E1.2
RISER, PANEL SCHEDULES AND DETAILS	



A NEW BUILDING
FOR
ORANGE BEACH SEWER DEPT.
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: SS
CHECKED: JO
DATE: 2019.07.23
REVISION: 2

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

SHEET NO.:

E2.1

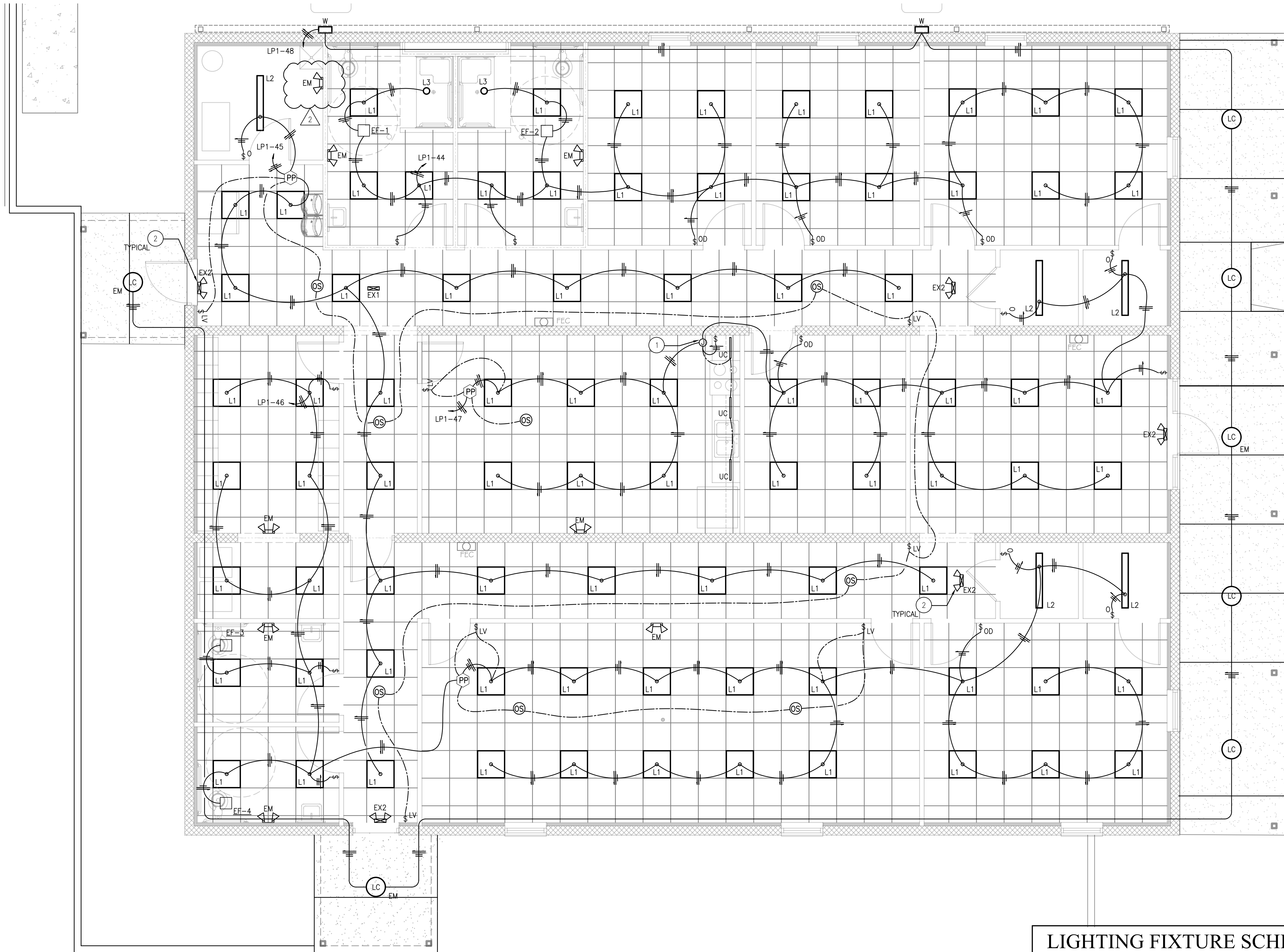
LIGHTING
PLAN

KEYED NOTES:

- 1 JUNCTION BOX ABOVE CEILING FOR LED REMOTE DRIVER.
- 2 CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO UNSWITCHED LIGHTING CIRCUIT THAT SERVES THE LIGHTING FIXTURES LOCATED IN THE SAME ROOM.

NOTES:

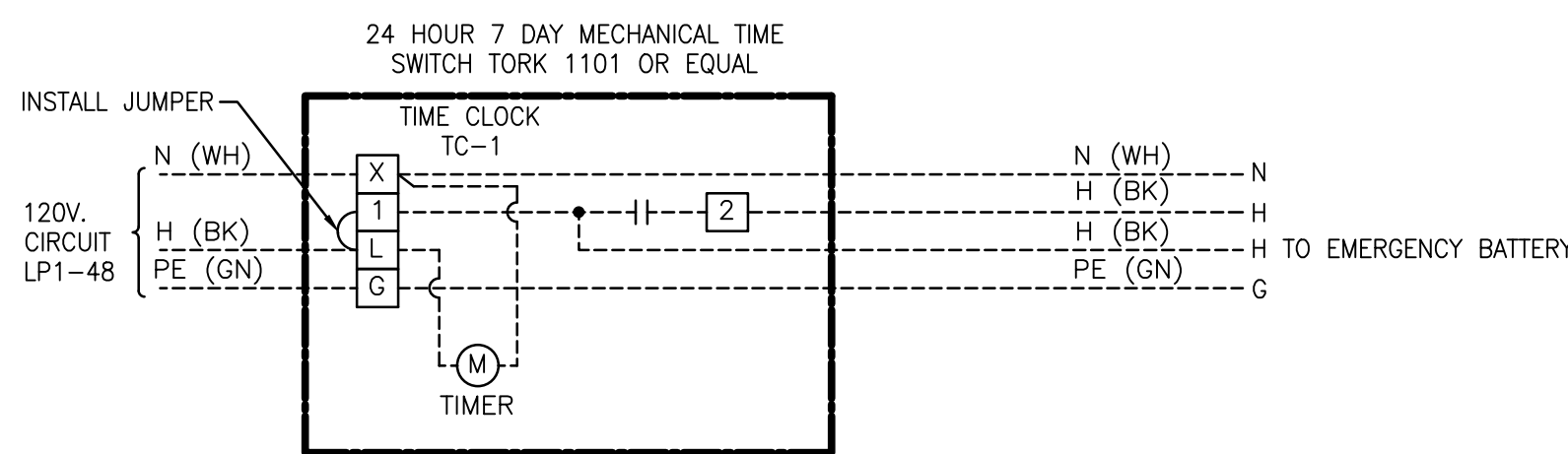
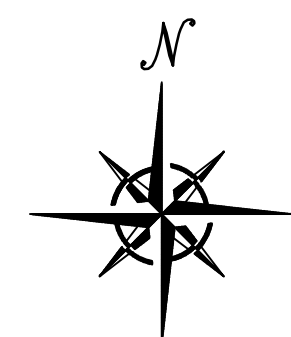
1. 0-10V LOW VOLTAGE DIMMING CONDUCTORS NOT SHOWN FOR CLARITY. SEE WIRING DIAGRAM ON DRAWING E0.1. ALL OFFICES, BREAK-ROOM AND CONFERENCE/TRAINING ROOM SHALL BE DIMMED.



LIGHTING FIXTURE SCHEDULE					
MARK	TYPE	VOLT	WATTS	LAMP	BRAND & CATALOG NO.
L1	2'x2' RECESSED EDGE LIT FLAT PANEL	120	30	3000 LUMEN 3500K	LSI SFP22-113768-LED-30-UE-DIM-35
L2	4' LED STRIP FIXTURE	120	30	4000 LUMEN 3500K	LSI SDL4-113768-LED-40L-FL-UNV-DIM1-35K-80CRI
L3	RECESSED ROUND DOWNLIGHT WET LOCATION LISTED, WITH LENS	120	12	800 LUMEN 3500K	NORA NFLIN-407-35-EE-LE3-6672 NFLIN-4R-F FRAME IN KIT
UC	UNDER COUNTER LED	120	14	1560 LUMEN 3500K	LSI LXC2-113768-24-LED-WW-24 / PSE-100-LED-UE WITH POWER SUPPLY
LC	UNDER CANOPY LED FIXTURE	120	14	3000 LUMEN 4000K	LSI EXN-113768-D-EGLED-3L-T5W-UNV-DIM-40-70CRI-WHT
W	WALL MOUNTED LED	120	30	4000 LUMEN 4000K	LSI XWM-113768-3-LED-4L-40-UE
EX1	EXIT SIGN	120	5	AS SUPPLIED	EVENLITE TLX-2206-EM-RU-W-2206
EX2	EXIT SIGN WITH EMERGENCY	120	5	AS SUPPLIED	EVENLITE TLP-2206-R-W-SD-2206
EM	LED EMERGENCY LIGHT	120	5	600 LUMEN	EVENLITE TEBL3W-2206

LIGHTING PLAN

1/4"=1'-0"



**TIME CLOCK
WIRING DIAGRAM**

SCALE: NONE

NOTE: TIME CLOCK CONTACTOR WIRING 12 AWG
COLOR AS SHOWN. WIRING TO LIGHTS 10 AWG.

