

**ARCHITECTURAL**

- G-1 CODE DATA
- G-2 LIFE SAFETY PLAN
- C-1 EXISTING SITE PLAN
- C-2 SITE PLAN
- A-1 EXISTING FLOOR PLAN
- A-1.1 DEMOLITION PLAN
- A-1.2 FLOOR PLAN
- A-1.3 GENERAL NOTES & SCHEDULE
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- A-2 EXISTING BUILDING ELEVATIONS
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- A-3 BUILDING SECTIONS
- A-4 ETR PLAN & ELEVATION
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**PLUMBING**

- P-1 PLUMBING LEGEND AND PROJECT NOTES
- P-2 PLUMBING SCHEDULES
- P-3 SANITARY WASTE PLAN
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- P-5 PLUMBING DETAILS

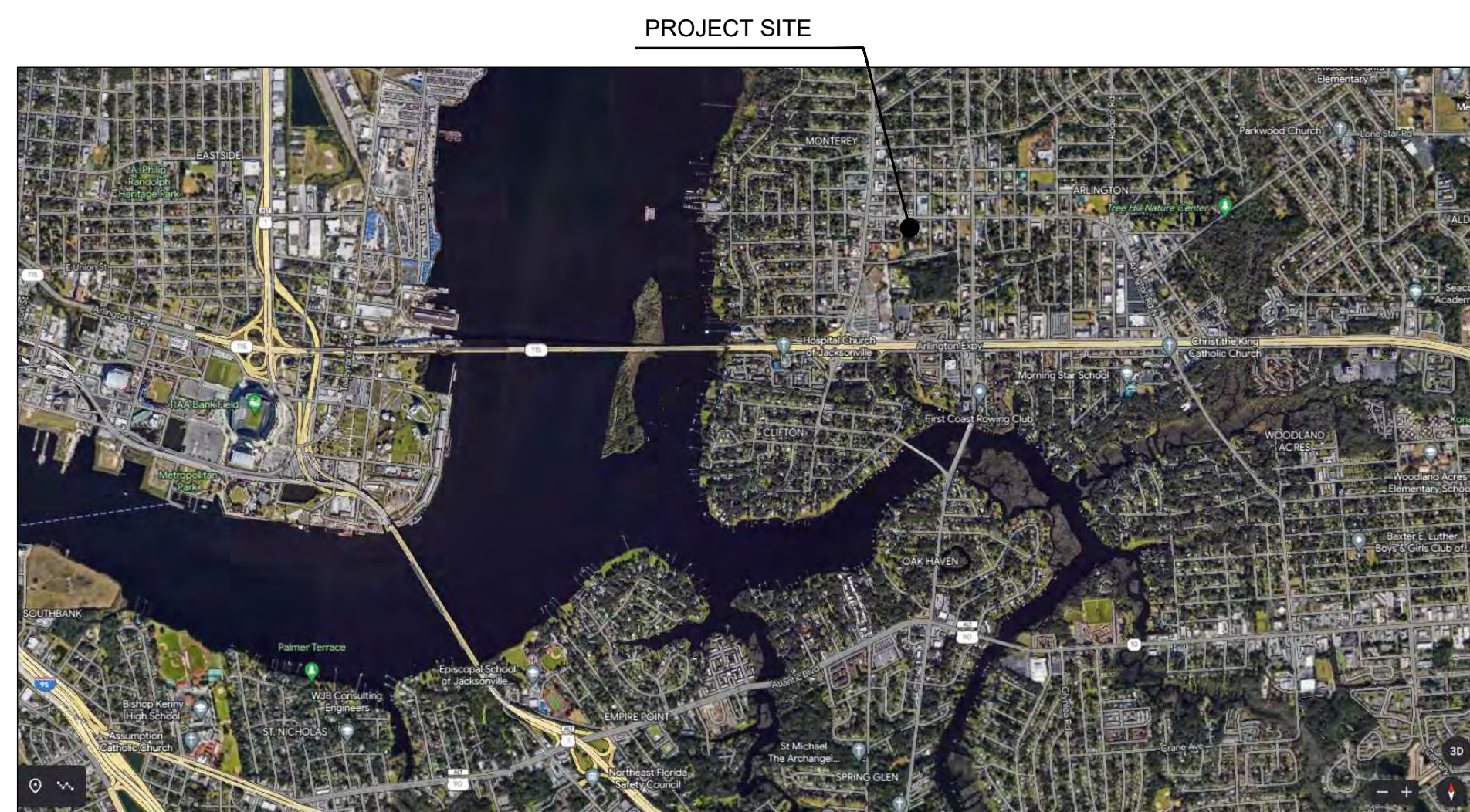
**MECHANICAL**

- M-1 MECHANICAL NOTES, LEGEND AND ABBREVIATIONS
- M-2 MECHANICAL SCHEDULES
- M-3 MECHANICAL PLAN
- M-4 MECHANICAL DETAILS

**ELECTRICAL**

- E-1 ELECTRICAL LEGEND & PROJECT GENERAL NOTES
- E-2 LIGHTING PLAN
- E-3 POWER PLAN
- E-4 POWER RISER DIAGRAM
- E-5 ELECTRICAL SCHEDULES
- E-6 ELECTRICAL DETAILS

OPTION #2  
MARKUPS



**STREET MAP**

SCALE: N.T.S.

PLUMBING FIXTURE COUNT PER TABLE 403.1 FLORIDA PLUMBING CODE	
STORAGE (S-1)	
WATER CLOSETS	1 WC PER 100 MALE/FEMALE
LAVATORIES	1 LAV PER 100 MALE/FEMALE
DRINKING FOUNTAINS	1 LAV PER 1,000
TOTAL OCCUPANT LOAD STORAGE S1 - 26 13 MALES 13 FEMALES	
2 REQUIRED WATERCLOSET	
2 REQUIRED LAVATORIES	
1 REQUIRED "HI-LO" DRINKING FOUNTAIN	

NOTE A:  
EXIT DOOR TACTILE SIGNAGE READING: EXIT SIGNAGE SHALL COMPLY w/ANSI/CABO A117.1; MOUNT 60" AFF TO CENTERLINE OF SIGN

LOCKS ON EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, A TOOL OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FOR OPERATION FROM EGRESS SIDE UNLESS THEY MEET THE REQUIREMENTS OF NFPA 101 7.2.1.5.

**CODE REQUIREMENTS**

THE PROJECT IS A REMODEL FOR AN EXISTING BUILDING AND AN ADDITION OF A NEW BUILDING FOR CAR SERVICING.  
 FLORIDA BUILDING CODE 7th EDITION (2020)  
 FLORIDA FIRE PREVENTION CODE 7th EDITION (ENCOMPASSING THE 2018 EDITIONS OF NFPA 1 & NFPA 101)  
 FLORIDA BUILDING CODE - ACCESSIBILITY 7th EDITION (2020)  
 THE BUILDING IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.  
 OCCUPANCY CLASSIFICATION OF TENANT SPACE: MODERATE-HAZARD STORAGE (S-1) FBC 311.2;  
 NFPA 3.3.134, 14 AND CHAPTER 42.  
 THE USE OF A BUILDING OR PORTION THEREOF FOR STORAGE USES NOT CLASSIFIED AS HAZARDOUS OCCUPANCY ACCESSORY USE: BUSINESS (B) NFPA 3.3.39, 3.3.190.3 CHAPTER 36  
 NON-SEPARATED USE PER FBC 508.3 AND INCIDENTAL USE AREA PER NFPA 6.1.14.1.4(2) AND 6.1.14.1.3(1).  
 OCCUPANCIES & MOST RESTRICTIVE REQUIREMENTS APPLY (FBC 508.3.1)  
 CONSTRUCTION: FBC SECTION 602.2 - TYPE VB, NON-SPRINKLERED  
 ALLOWABLE HEIGHTS AND BUILDING AREAS: - TYPE VB, NON-SPRINKLERED

MAX. HEIGHT - 40'-0" (NS) STORAGE & BUSINESS FBC TABLE 504.3  
 MAX. STORIES - 1 FOR S-1 & 2 FOR BUSINESS (NS) FBC TABLE 504.4  
 BASIC ALLOWABLE AREA - 9,000 SQ. FT. (STORAGE S-1) & BUSINESS FBC TABLE 506.2

EXISTING BUILDING AREA: 1,717 SF  
 NEW BUILDING AREA: 2,467 SF  
 TOTAL BUILDING AREA: 4,184 SF

TYPE VB - TABLE FBC 601

BUILDING ELEMENT	TYPE VB
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	0
BEARING WALLS EXTERIOR INTERIOR	0
NONBEARING WALLS AND PARTITIONS EXTERIOR	0
NONBEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0

TYPE VB - TABLE FBC 602

FIRE SEPARATION DISTANCE (FT)	TYPE OF CONSTRUCTION	GROUP S-1
< 5	OTHERS	2
≥ 5 < 10	OTHERS	1
≥ 10 < 30	OTHERS	0
≥ 30	ALL	0

SINGLE EGRESS REQUIREMENT WITHOUT A FIRE SPRINKLER SYSTEM:  
 BUSINESS - MAXIMUM 49 OCCUPANTS FOR A SPACE WITH ONE MEANS OF EGRESS (FBC TABLE 1006.2.1)  
 COMMON PATH OF TRAVEL DOES NOT EXCEED THE LIMITATIONS OF FBC 1006.2.1 - 100' OCCUPANT LOAD LESS THAN 30 PEOPLE (NFPA TABLE A.7.6) - 75'  
 BUSINESS OCCUPANCY - SINGLE EXIT BUILDING; MAXIMUM 1 STORY ABOVE GROUND PLANE. MAXIMUM 50 OCCUPANTS AND MAXIMUM TRAVEL DISTANCE 75 FT (FBC TABLE 1006.2.1)  
 BUSINESS OCCUPANCY - SINGLE EXIT PERMITTED IF DISTANCE TO EXIT IS LESS THAN 75 FT (FBC 1006.3.2(2))

OCCUPANT LOAD:  
 MINIMUM OCCUPANT LOAD - FBC TABLE 1004.1.2 (NFPA TABLE 7.3.1.2 & 42.1.7):  
 STORAGE 300 SQ FT PER PERSON  
 BUSINESS 150 SQ FT PER PERSON

GARAGE BAYS	2,270 SF / 200 SF PER PERSON	= 12 OCCUPANTS
STORAGE	588 SF / 300 SF PER PERSON	= 02 OCCUPANTS
RECEPTION	160 SF / 15 SF PER PERSON	= 11 OCCUPANTS
OFFICE	180 SF / 150 SF PER PERSON	= 02 OCCUPANTS
TOTAL		= 26 OCCUPANTS

INTERIOR FINISHES:  
 MINIMUM AS REQUIRED BY FBC TABLE 803.9 (NON-SPRINKLERED):

OCCUPANCY	VERTICAL EXITS	EXIT ACCESS CORRIDORS	ROOMS & ENCLOSED SPACES
BUSINESS	B	C	C
STORAGE	C	C	C

AS REQUIRED BY NFPA 101 TABLE A.10.2.2:

OCCUPANCY	VERTICAL EXITS	EXIT ACCESS CORRIDORS	ROOMS & ENCLOSED SPACES
BUSINESS	A OR B I OR II	A OR B	A, B OR C
STORAGE	A OR B I OR II	A, B OR C I OR II	A, B OR C NA

CLASS A INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450  
 CLASS B INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450  
 CLASS C INTERIOR WALL AND CEILING FINISH - FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450

MEANS OF EGRESS:  
 MAXIMUM TRAVEL DISTANCE, DEAD END LENGTH, EXIT AND MEANS OF EGRESS WIDTH: FBC 1005.3.1 & 1005.3.2 & TABLE 1017.2; NFPA TABLE A.7.6.1:  
 MAXIMUM TRAVEL DISTANCE TO EXIT (NON-SPRINKLERED): 200 FT; (FBC 1017.2.2)  
 NFPA 101 - 200 FT (BUSINESS & STORAGE S1 - NFPA 42.2.6.2)  
 MAXIMUM DEAD END CORRIDOR LENGTH (NONSPRINKLED): 20 FT; (FBC 1020.4)  
 NFPA 101 - 20 FT (STORAGE)  
 OTHER EGRESS COMPONENTS (WIDTH PER PERSON SERVED) :  
 LEVEL = .02" (0.2" x 26 OCCUPANTS = 5.2" REQUIRED)  
 MINIMUM CORRIDOR AISLE WIDTH: 44" (FBC 1017.3 & 1018.2)  
 MINIMUM CLEAR WIDTH OPENING OF EXIT DOORS: 32" (32"/0.2" PER PERSON = 160 PERSONS)  
 COMMON PATH OF TRAVEL (NON-SPRINKLERED): 75 FT (FBC 1006.3);  
 NFPA 101 - 75 FT (STORAGE)  
 DOORS SHALL SWING IN THE DIRECTION OF EGRESS EXCEPT WHEN SERVING AN OCCUPANT LOAD OF LESS THAN 50 (FBC 1008.1.2)

- ← 125P 32" INDICATES EXIT OR EXIT ACCESS, NUMBER OF PERSONS (P) DISCHARGING AT EXIT OR EXIT ACCESS, AND EGRESS CLEAR WIDTH (AT DOORS).
- SAMPLE EGRESS TRAVEL PATH AND DISTANCE
- TWO-HOUR FIRE RATED CMU
- ☒ FIRE EXTINGUISHER (UL RATING 3A-40B-C) 5 LB MULTIPURPOSE DRY CHEMICAL EQUAL TO BADGER MODEL #5MB-6H (A KIDDE COMPANY)
- ☒ FIRE EXTINGUISHERS SHALL BE CERTIFIED BY A LICENSE FIRE PROTECTION COMPANY
- ☒ FIRE EXTINGUISHERS SHALL BE INSTALLED BY TENANTS IN THEIR LEASED SPACES

CLASS A FIRES (ORDINARY COMBUSTIBLE MATERIALS SUCH AS WOOD, CLOTH, PAPER RUBBER AND MANY PLASTICS)  
 CLASS B FIRES (LIQUIDS, TARS, OILS, GASES)  
 CLASS C FIRES (ELECTRICAL EQUIPMENT)  
 MAXIMUM FLOOR AREA PER UNIT OF A = 1,500 SF  
 MAXIMUM FLOOR AREA PER 2A UNIT = 3,000 SF  
 MAXIMUM TRAVEL DISTANCE TO AN EXTINGUISHER = 75 FT  
 MAXIMUM FLOOR AREA PER EXTINGUISHER = 11,250 SF

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CRAIG A. SOMMERS, AIA  
 FL ARCHITECT - AR0016480

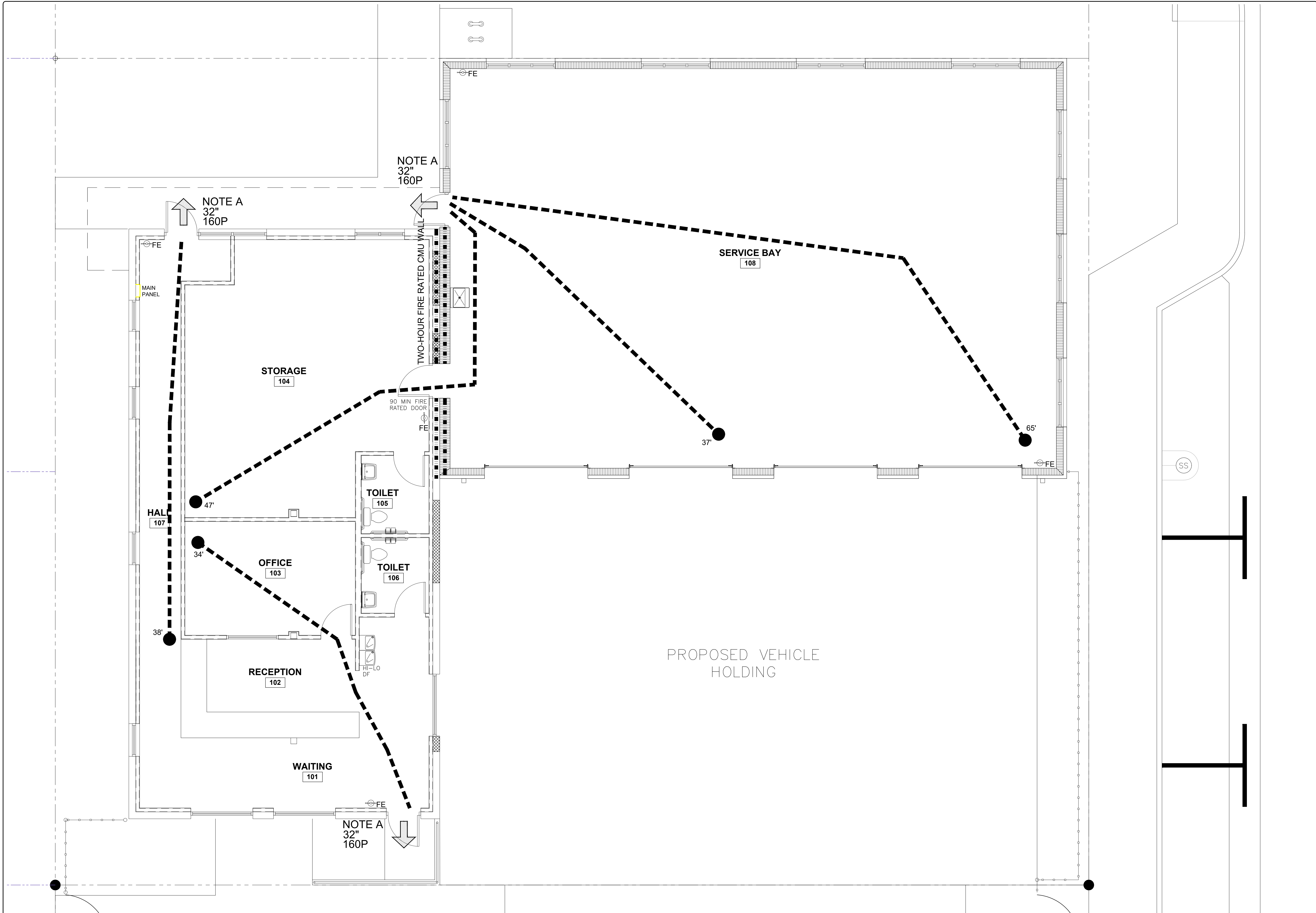
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 Jacksonville Beach, FL 32250  
 904.249.0688 p  
 904.241.0691 f  
 www.dsae.net  
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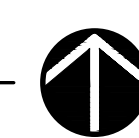
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SHEET  
**G-1**  
 OPTION 2



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



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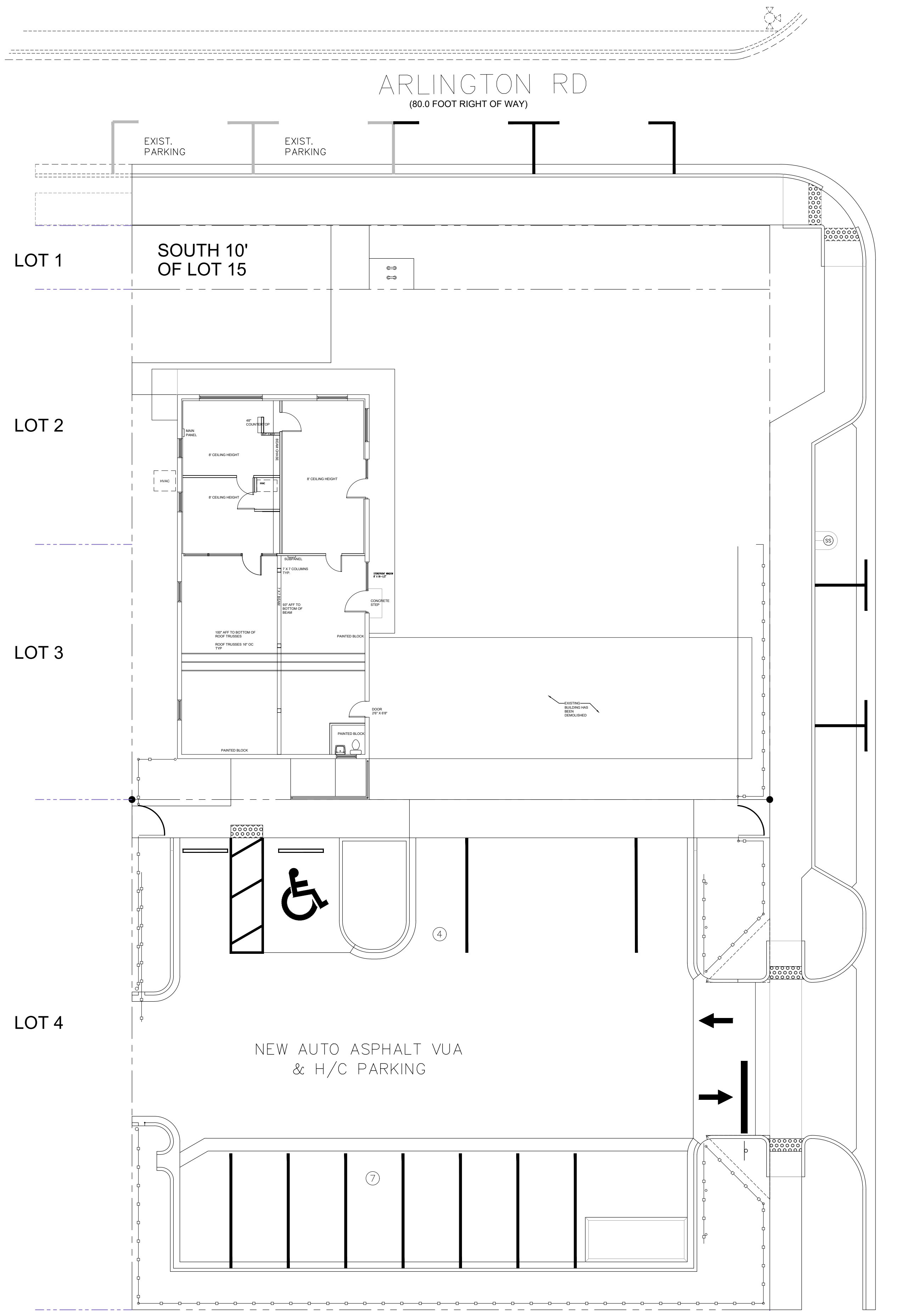
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SHEET  
**G-2**



**EXISTING SITE PLAN**

SCALE: 3/32"=1'-0"



ROMNEY ST  
(50.0 FOOT RIGHT OF WAY)

ARLINGTON RD  
(80.0 FOOT RIGHT OF WAY)

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FL ARCHITECT - AR0016480

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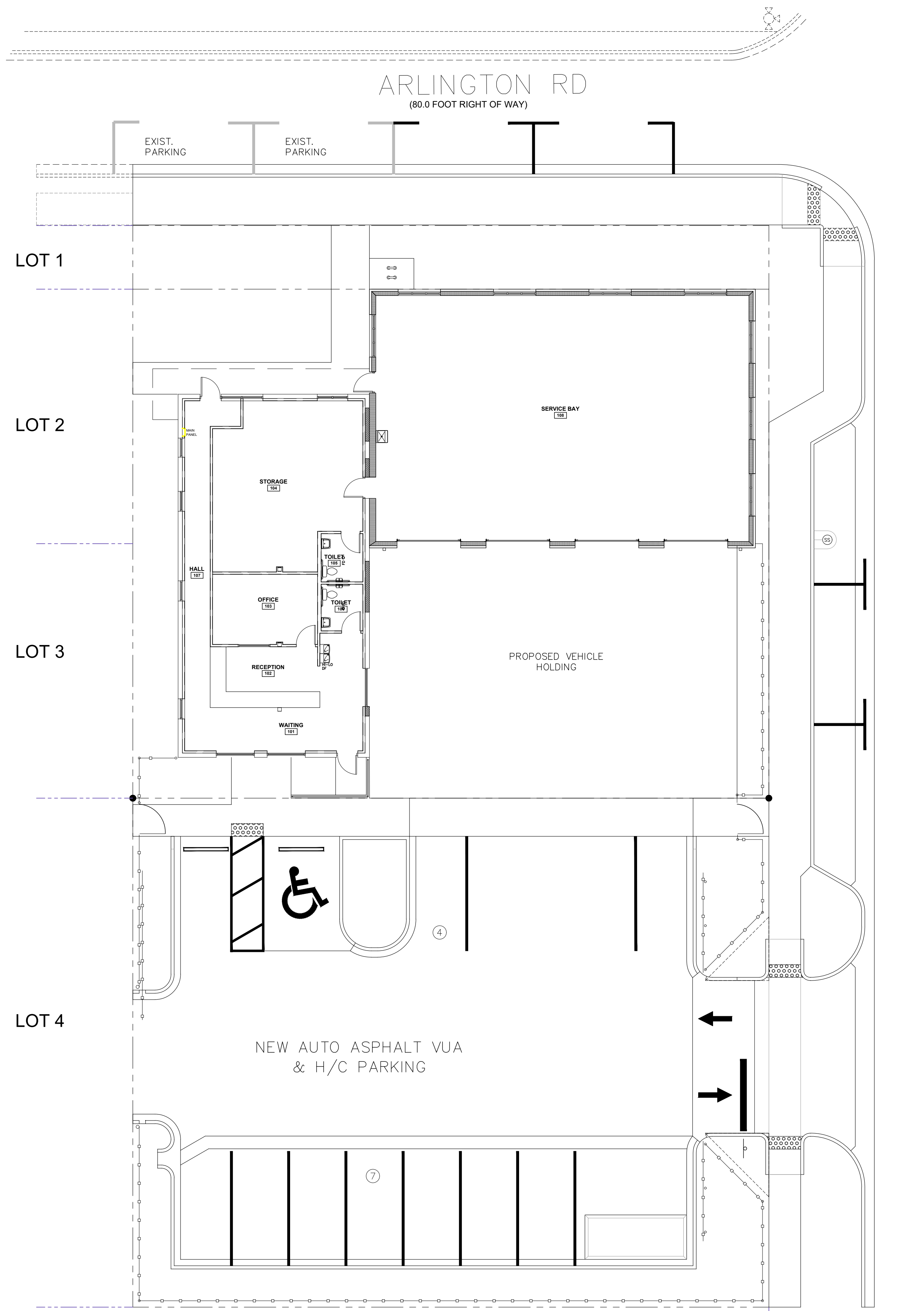
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SHEET  
**C-1**

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**SITE PLAN**

SCALE: 3/32"=1'-0"



ROMNEY ST  
(50.0 FOOT RIGHT OF WAY)

ARLINGTON RD  
(80.0 FOOT RIGHT OF WAY)

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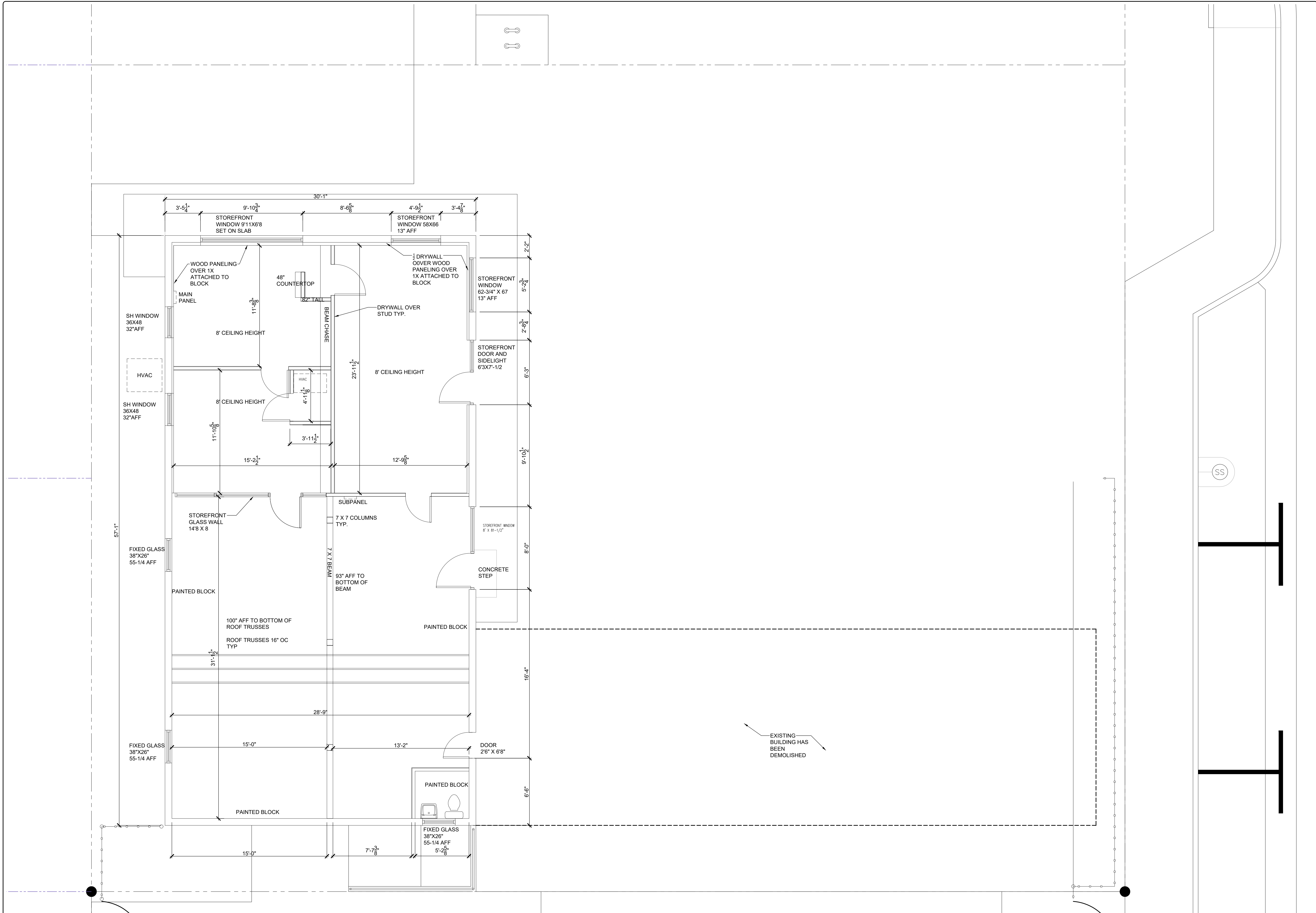
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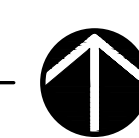
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SHEET  
**C-2**

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



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SHEET  
**A-1**

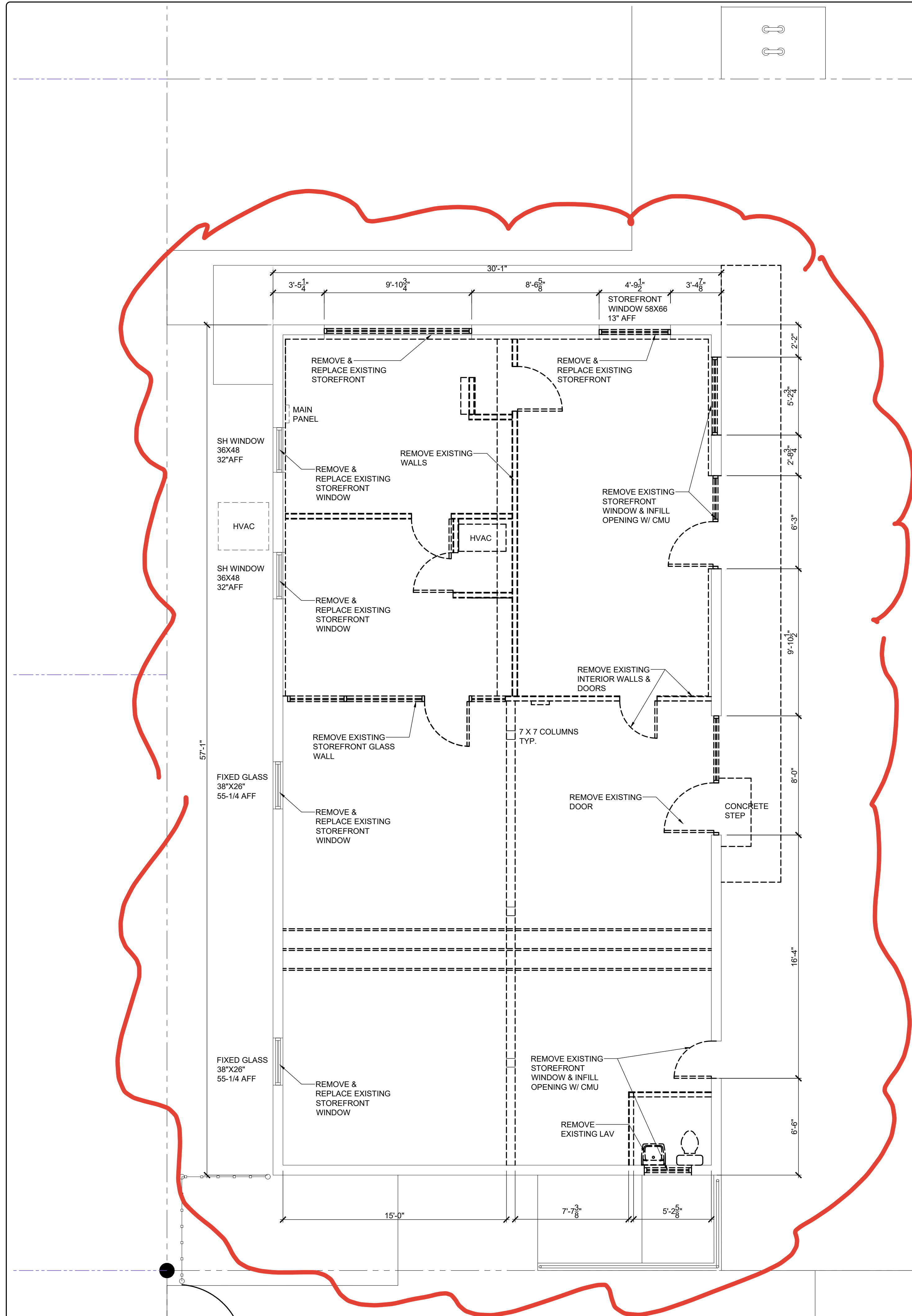
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SHEET  
**A-1.1**  
**OPTION 2**

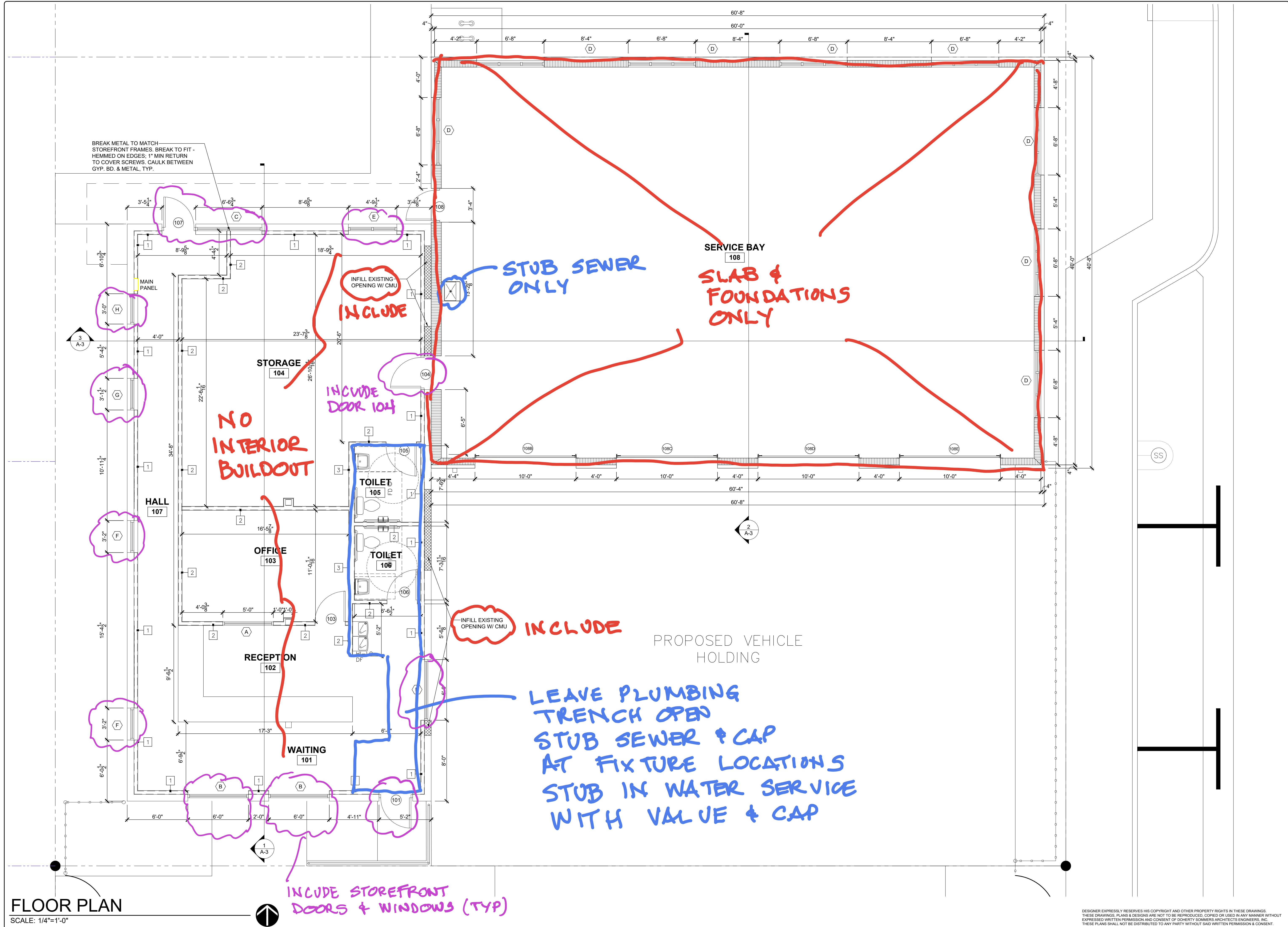
- GENERAL NOTES:**
1. FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
  2. PATCH AND REPAIR ALL EXISTING MATERIALS AND FINISHES AT WALLS, FLOORS AND CEILINGS WHERE AFFECTED OR DAMAGED BY NEW CONSTRUCTION OR REMOVAL OF EXISTING CONSTRUCTION. MATERIALS AND FINISHES SHALL MATCH EXISTING CONSTRUCTION AND FINISHES. ALL OPENINGS IN FLOORS, WALLS AND CEILINGS RESULTING FROM DEMOLITION OPERATIONS SHALL BE INFILLED WITH MATERIAL TO MATCH EXISTING CONSTRUCTION AND FINISHES.
  3. REMOVE EXISTING AHU'S FROM INSIDE THE BUILDING AND CONDENSING UNITS FROM THE ROOF.
  4. REMOVE EXISTING DUCTWORK THROUGHOUT THE BUILDING.
  5. REMOVE EXISTING ELECTRICAL (WIRING & CONDUIT) THROUGHOUT THE BUILDING BACK TO THE PANELS.
  6. REMOVE EXISTING PLUMBING FIXTURES & PIPING THROUGHOUT THE BUILDING. CAP UNUSED WATER & SEWER LINES. PATCH & REPAIR CONCRETE FLOOR SLAB. CONTRACTOR TO LOCATE CW SERVICE TO THE BUILDING & SEWER LINES EXITING THE BUILDING.
  7. REMOVE EXISTING FURRING, INSULATION AND GYPSUM WALLBOARD FROM THE PERIMETER OF ALL EXTERIOR WALLS.
  8. COORDINATE ALL ROOF REPAIR & PATCHING WORK WITH LANDLORD'S ROOFING CONTRACTOR SO AS TO NOT VOID ANY WARRANTIES.
  9. COORDINATE DEMOLITION WORK THAT WILL BE DONE WITH THE LANDLORD PRIOR TO THE COMMENCEMENT OF THE CONTRACTOR'S WORK.
  10. REMOVE EXISTING ACOUSTICAL CEILINGS, DIFFUSERS, DUCTWORK, LIGHTS, ETC. TO EXPOSE EXISTING BAR JOISTS AND METAL DECK.
  11. GC TO PROVIDE ASBESTOS SURVEY FOR THE BUILDING.
  12. REMOVE ALL EXISTING MILLWORK & COUNTERS, DROP-IN SINKS, APPLIANCES, ETC. SEE NOTE 6 REGARDING REMOVAL OF EXISTING PLUMBING.
- DEMOLITION NOTES:**
1. ===== INDICATES WALLS, DOORS, FIXTURES AND COUNTERS TO BE REMOVED.

**OPTION #2**  
**ALL WORK SHOWN INCLUDED**



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

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BREAK METAL TO MATCH STOREFRONT FRAMES. BREAK TO FIT - HEMMED ON EDGES; 1" MIN RETURN TO COVER SCREWS; CAULK BETWEEN GYP. BD. & METAL, TYP.

**NO INTERIOR BUILDOUT**

**STUB SEWER ONLY**

**SLAB & FOUNDATIONS ONLY**

**INCLUDE**

**INCLUDE DOOR 104**

**INCLUDE**

**LEAVE PLUMBING TRENCH OPEN STUB SEWER & CAP AT FIXTURE LOCATIONS STUB IN WATER SERVICE WITH VALVE & CAP**

**INCLUDE STOREFRONT DOORS & WINDOWS (TYP)**

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

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SHEET  
**A-1.2**  
**OPTION 2**

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**GENERAL NOTES:**

- SWING & FORCED OPEN DOORS SHALL MEET THE REQUIREMENTS OF NFPA LIFE SAFETY CODE AS FOUND IN THE FLORIDA FIRE PREVENTION CODE 7th EDITION CHAPTER 7.2.1.4 AND THE FLORIDA BUILDING CODE 7th EDITION (2020) 1008.1.2.
- SELF CLOSING DEVICES SHALL BE PROVIDED ON DOORS IN A MEANS OF EGRESS AND SHALL MEET THE REQUIREMENTS OF THE NFPA LIFE SAFETY CODE 101 (2018) CHAPTER 7.2.1.8 AND THE FLORIDA FIRE PREVENTION CODE 7th EDITION.
- THIS BUILDING WILL BE A NONSMOKING FACILITY.
- ALL WORK SHALL BE IN COMPLIANCE WITH THE BUILDING CODES, RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, AND ALL MANUFACTURER'S RECOMMENDATIONS.
- THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE), FBC 1010.1.5
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT/ENGINEER.
- THE GENERAL CONTRACTOR SHALL PROVIDE FLORIDA PRODUCT APPROVAL NOTICES ON ALL REQUIRED COMPONENTS AND CLADDING.
- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RESISTANT-RATED WALLS (AND CORRESPONDING FIRE-RESISTANT RATINGS) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AND SHAFT ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING: ( ) HOUR FIRE AND SMOKE RATED BARRIER - PROTECT ALL OPENINGS. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND.
- DO NOT SCALE DRAFTING, REPORT ERRORS IN DIMENSIONING TO ARCHITECT BEFORE PROCEEDING WITH WORK.
- DIMENSIONS NOTED AS "CLEAR" ARE FROM FACE OF GYPSUM WALLBOARD TO GYPSUM WALLBOARD.

**FINISHES:**

GYPSUM BOARD:  
 PROVIDE MOISTURE RESISTANT GYPSUM WALLBOARD (ASTM C630/630M) IN WASH DOWN AND WET AREAS; COORD w/OWNER'S REP  
 PROVIDE TILE BACKER BOARD (DEN-SHIELD OR APPROVED EQUAL) ON WALLS TO RECEIVE CERAMIC TILE (ASTM C1178)  
 PROVIDE FIRE RATED GYPSUM BOARD TYPE "X" 5/8" THICK ON FIRE RATED PARTITION (ASTM C36) INSTALLED PER UL ASSEMBLY REQUIREMENTS  
 GYPSUM BOARD INSTALLATION: INSTALL PER GA-216 & GA-600. ERECT EXTERIOR GYPSUM SHEATHING IN ACCORDANCE WITH ASTM C1280.  
 PROVIDE A GYPSUM BOARD ACCESSORIES AS REQUIRED : ACOUSTIC SEALANT, CORNER BEADS, EDGE TRIM (GA-216), JOINT MATERIALS (ASTM C475 & GA-216) - REINFORCING TAPE, JOINT COMPOUND, ADHESIVE & WATER.  
 GYPSUM BOARD FINISHES:  
 LEVEL 1 - ABOVE FINISHED CEILINGS CONCEALED FROM VIEW  
 LEVEL 2 - WALLS BEHIND CABINERY  
 LEVEL 3 - WALLS EXPOSED TO VIEW  
 LEVEL 4 - CEILING EXPOSED TO VIEW  
 LEVEL 5 - SPECIAL WALLS TO RECEIVE WRITING SURFACES (COORD ANY LOCATIONS OF LEVEL 5 FINISH WALLS w/OWNER)

INSULATION:  
 PROVIDE ACOUSTIC INSULATION (ASTM C665) AROUND ALL TOILET AND BATHROOMS AND AS NOTED ON THE WALL TYPE SCHEDULE. INSULATION SHALL BE PERFORMED GLASS FIBER, FRICTION FIT UNFACED R-11 MIN.  
 PROVIDE BATT INSULATION (ASTM C665) IN EXTERIOR WALLS AND SOFFIT AREAS WITH R-VALUES AS NOTED ON PLANS AND SECTIONS. BATT INSULATION SHALL BE PERFORMED GLASS FIBER, FRICTION FIT UNFACED.  
 INSULATION SHALL HAVE FLAME/SMOKE PROPERTIES 75/450 IN ACCORDANCE WITH ASTM E84

FRAMING MATERIALS:  
 STUDS AND TRACKS (ASTM C645, GA-216, GA-600) SHALL BE GALVANIZED SHEET STEEL, 0.0188" THICK (25 GA), 0.284 (22 GA), 0.0359 (20 GA); C-SHAPE, WITH KNURLED FACES.  
 ANCHOR TO SUBSTRATE WITH TIE WIRES, NAILS, SCREWS, AND OTHER METAL SUPPORTS, OF TYPE AND SIZE TO SUIT APPLICATION TO RIGIDLY SECURE MATERIALS IN PLACE.  
 METAL STUD INSTALLATION: INSTALLED IN ACCORDANCE WITH ASTM C754, GA-216 & GA-600  
 DEFLECTION: MAXIMUM DEFLECTION OF INTERIOR NON-LOAD BEARING PARTITIONS SHALL BE L/240 AT 5 PSF. PROVIDE LATERAL REINFORCING AS REQUIRED  
 CEILING FRAMING INSTALLATION: INSTALLED IN ACCORDANCE WITH ASTM C754, GA-216 & GA-600  
 DEFLECTION: LEVEL CEILING TO A TOLERANCE OF L/600. LATERALLY BRACE ENTIRE SUSPENSION SYSTEM.

ACOUSTICAL CEILING TILES:  
 ACOUSTICAL CEILINGS SHALL COMPLY w/ THE FOLLOWING: ASTM C635, ASTM C636, ASTM C665, ASTM E580, ASTM C1284 AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION.  
 INSTALLATION: INSTALL LAY-IN CEILING IN ACCORDANCE WITH ASTM C636 AND ASTM E580. INSTALL SYSTEM CAPABLE OF SUPPORTING IMPOSED LOADS TO DEFLECTION OF L/360 MAXIMUM  
 ACCESSORIES: PROVIDE ALL NECESSARY ACCESSORIES; GALVANIZED SUPPORT HANGERS AND CHANNELS, PERIMETER MOLDINGS (SAME MATERIAL AND FINISH AS THE GRID - L-SHAPED MOLDING FOR MOUNTING AT THE SAME ELEVATION AS FACE OF GRID) TOUCH UP PAINT AS REQUIRED TO MATCH GRID.

VINYL COMPOSITION TILE (VCT):  
 VCT EQUAL TO ARMSTRONG STANDARD EXCELRON SERIES; 12" x 12" x 1/8"

- 1.1 PERFORMANCE REQUIREMENTS
- Conform to applicable code for fire performance ratings as follows:
    - Flooring, critical radiant flux (CRF): Minimum 0.45 watt per square centimeter, per ASTM E 648.
    - Flooring, smoke developed: Maximum 450, per ASTM E662.
    - Class 2 finish per ASTM F1066

CERAMIC AND QUARRY TILE:  
 INSTALL TILE PER THE TCA (TILE COUNCIL OF AMERICA) HANDBOOK FOR TILE INSTALLATION.  
 NOTE: ALL FINISHES AND COLORS SHALL BE APPROVED BY OWNER PRIOR TO ORDERING

**GENERAL NOTES - FINISHES**

- THE CONTRACTOR SHALL VISIT, BEFORE SUBMITTING PRICES.
- ALL INTERIOR DOOR FRAMES SHALL BE PAINTED.
- ALL INTERIOR PARTITIONS SHALL RECEIVE TWO COATS OF SHERWIN WILLIAMS EVERCLEAN SEMI-GLOSS PAINT OVER ONE COAT OF PRIMER UNLESS OTHERWISE NOTED.
- ALL HORIZONTAL GYPSUM BOARD SURFACES SHALL BE PRIMED WITH FLAT WHITE FINISH, UNLESS OTHERWISE INDICATED.
- FLOOR TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS. SUBMIT SAMPLES FOR OWNER'S SELECTION PRIOR TO INSTALLATION.
- CENTER FLOOR TILES IN ROOM, UNLESS OTHERWISE NOTED.
- ALL LEFT OVER PAINT SHALL BE CLEARLY LABELED AND APPROPRIATELY PACKAGED. CONTRACTOR SHALL DELIVER ALL LEFTOVER PAINT AND FINISH MATERIALS TO TENANT FOR STORAGE.
- ALL INTERIOR FINISHES TO BE THE MINIMUM CLASSIFICATION AS LISTED ON THE CODE DATA SHEET.

**ROOM FINISH SCHEDULE**

ROOM NO.	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	REMARKS
WAITING 101	LVT	VB	PT	GYP. BD.	8'-0"	
RECEPTION 102		VB	PT	GYP. BD.	8'-0"	
OFFICE 103	LVT		PT	GYP. BD.		
STORAGE 104	SC	VB		GYP. BD.	8'-0"	
TOILET 105	LVT	VB	EP		7'-6"	
TOILET 106	LVT	VB		GYP. BD.	7'-6"	
HALL 107	LVT	VB	PT	GYP. BD.		
SERVICE BAY 108		VB	PT	--	--	

- ACT = ACOUSTICAL CEILING TILE  
 CT = CERAMIC TILE  
 EP = EPOXY PAINT  
 FRP = FIBERGLASS REINFORCED PANEL  
 LVT = LUXURY VINYL TILE  
 PP = POLISHED PORCELAIN  
 PT = PAINT  
 RS = RESILIENT WALL BASE  
 SC = SEALED CONCRETE  
 S/S = STAINLESS STEEL PANELS  
 VB = VINYL BASE  
 VCT = VINYL COMPOSITION TILE  
 CPT = CARPET  
 GYP = GYPSUM

WALLS WITHIN 2'-0" OF SERVICE SINK, URN, WATERCLOSETS SHALL HAVE A SMOOTH NON-SLIP SURFACE TO A HEIGHT OF 4'-0" ABOVE THE FLOOR

COORDINATE ALL FINISHES WITH TENANT

**WALL TYPE SCHEDULE**

TYPE	DESCRIPTION	INSULATION	NOTES
1	3/8" AIRGAP FROM EXISTING STRUCTURE; 3 5/8" METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON ROOM SIDE; EXTEND TO ROOF DECK	R-13	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF FIBERGLASS BATT (OPTIONAL)
2	3-5/8", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON EACH SIDE; EXTEND TO ROOF DECK		BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT (OPTIONAL)
3	6", 20 GA. METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON EACH SIDE; EXTEND TO ROOF DECK		BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT (OPTIONAL)
4	3/8" AIRGAP FROM EXISTING STRUCTURE; 6" METAL STUDS @ 24" O.C. WITH ONE LAYER OF 1/2" GYPSUM WALLBOARD ON ROOM SIDE; EXTEND TO ROOF DECK	R-19	BRACE WALL TO LIMIT DEFLECTION TO L/240 @ 5 PSF SOUND ATTENUATION BATT

- PROVIDE FIREBLOCKING AND DRAFTSTOPPING IN PARTITIONS PER FBC 717. PROVIDE FIREBLOCKING IN CONCEALED SPACES INCLUDING VERTICALLY AT THE CEILING AND FLOOR LEVELS AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10' (IBC 717.2.2). SEE IBC 717.2.1 FOR FIREBLOCKING MATERIAL OPTIONS.
- EXPOSED INSULATION MATERIALS INSTALLED SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
- CONCEALED INSULATION MATERIALS INSTALLED SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
- PROVIDE WATER RESISTANT GYPSUM BOARD AROUND PLUMBING FIXTURES AND WALLS TO RECEIVE CERAMIC TILE EQUAL TO DENS SHIELD TILE BACKER BOARD OR EQUIVALENT PAPERLESS MOLD/MILDEW SUBSTRATE. INTERIOR PANELS. GYPSUM WALLBOARD PRODUCTS MUST BE RATED FOR WET LOCATIONS IN ACCORDANCE WITH THE TILE COUNCIL OF NORTH AMERICA (TCNA) HANDBOOK. GREEN BOARD IS NOT APPROVED FOR TOILET ROOM LOCATIONS.
- PROVIDE FIRE-RERADANT WOOD BLOCKING IN WALL AS REQUIRED TO SUPPORT TOILET ROOM FIXTURES, ACCESSORIES, SHELVES & CABINETS, WALL MOUNTED TELEVISIONS AND FIRE EXTINGUISHERS. COORDINATE LOCATIONS OF CEILING & WALL MOUNTED TELEVISIONS WITH TENANT IN FIELD.
- PROVIDE R-11 SOUND ATTENUATION BATT AROUND THE TOILET ROOM.

EXCLUDE INTERIOR FRAMING

↑ FINISHES

CRAIG A. SOMMERS, AIA  
 FL ARCHITECT - AR0016480

DISPATCHED  
 JOHN'S AUTOMOTIVE  
 SOMMERS ARCHITECTS ENGINEERS, INC.  
 370 15th Ave S, Units A & B  
 Jacksonville Beach, FL 32250  
 904.249.0688 p  
 904.241.0691 f  
 www.dsae.net  
 Florida Certificate of Auth No.: 00009393  
 Florida License No.: AA26000952

ADDITIONAL REVISIONS  
 JOHN'S AUTOMOTIVE  
 5760 ARLINGTON ROAD  
 JACKSONVILLE, FLORIDA 32211

SHEET TITLE: GENERAL NOTES & SCHEDULE	
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SHEET  
**A-1.3**  
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FUTURE

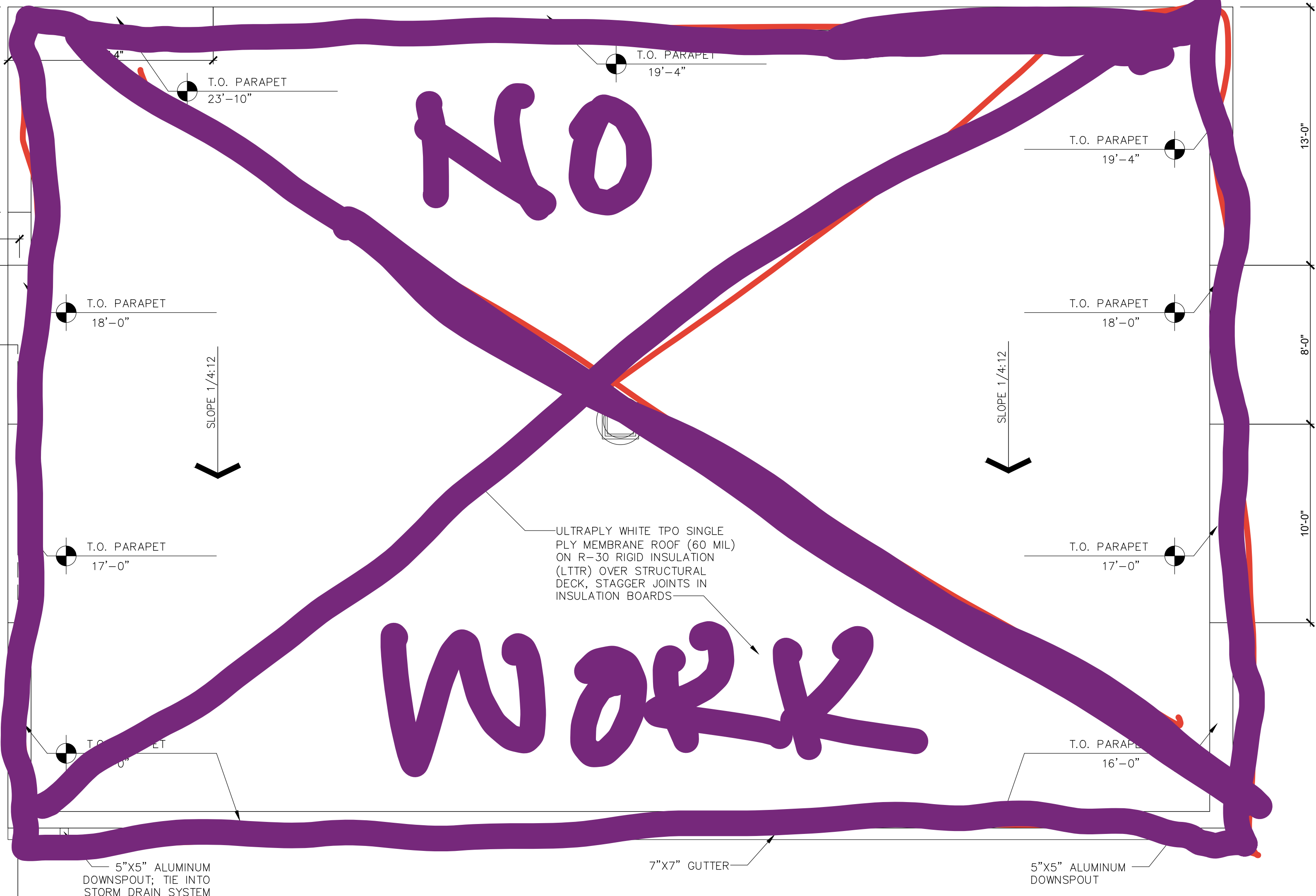
INCLUDE

PATCH & REPAIR EXISTING SOFFIT & FASCIA; PROVIDE NEW WOOD FASCIA AND STUCCO COVERED DENSGLASS SOFFIT

8'-0"  
4'-0"  
4'-0"  
4'-0"

REMOVE EXISTING ROOF AND REPLACE WITH ULTRAPLY WHITE TPO SINGLE PLY MEMBRANE ROOF (60 MIL) ON R-30 RIGID INSULATION (LTTR) OVER EXISTING STRUCTURAL DECK

INCLUDE



NO

WORK

EXCLUDE

GENERAL ROOF NOTES:

1. ALL NEW ROOF PENETRATIONS SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR PRE-APPROVED BY THE ROOF MANUFACTURER & BY THE LANDLORD. ALL WORK SHALL BE IN FULL COMPLIANCE W/ ROOF MANUFACTURERS STANDARD DETAILS, SPECIFICATIONS AND RECOMMENDATIONS, SUCH THAT ALL WARRANTIES REMAIN IN FULL EFFECT. FIELD VERIFY CONDITIONS, ROOF MANUFACTURER AND ROOF WARRANTY.
2. CONTRACTOR OBTAIN WRITTEN PERMISSION FROM THE LANDLORD PRIOR TO INSTALLATION OF ROOF TOP EQUIPMENT. ROOF TOP EQUIPMENT LOCATION & WEIGHTS SHALL BE PROVIDED TO THE LANDLORD TO ASSURE ADEQUACY OF ROOF DESIGN PRIOR TO INSTALLATION. DO NOT INSTALL NEW ROOFTOP EQUIPMENT ON TRUSSES WHICH ARE NOT CAPABLE OF CARRYING THE IMPOSED LOADS. G.C. SHALL FIELD VERIFY STRUCTURE AND REPORT FINDINGS IN WRITING TO LANDLORD AND ARCHITECT PRIOR TO COMMENCING NEW WORK. FIELD VERIFY LOCATION OF ROOF TOP UNITS.
3. SINGLE PLY FULLY ADHERED T P O WHITE MEMBRANE ROOF ON R-30 POLYISOCYANURATE INSULATION, INSTALL ON HORIZONTAL SURFACES AND VERTICALLY ON BACK SIDE OF PARAPETS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND MEETING FM I-90 RATING, PROVIDE FULL MANUFACTURER WARRANTY.

NEW 6'-0" X 4'-0" PRE-FAB ALUMINUM CANOPY

INCLUDE

4'-0"  
6'-0"

ROOF PLAN

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



CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.

370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
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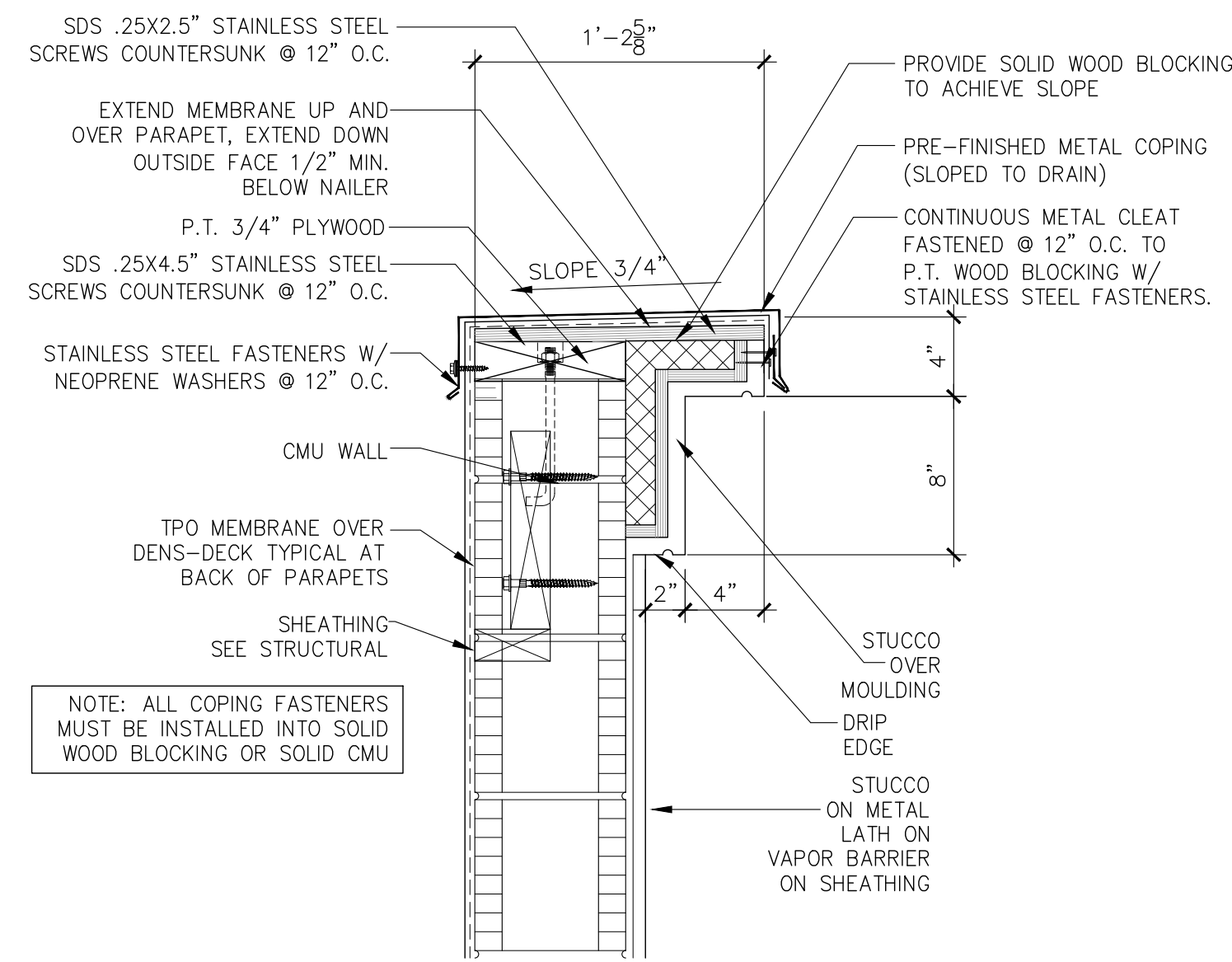
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SHEET TITLE: ROOF PLAN	
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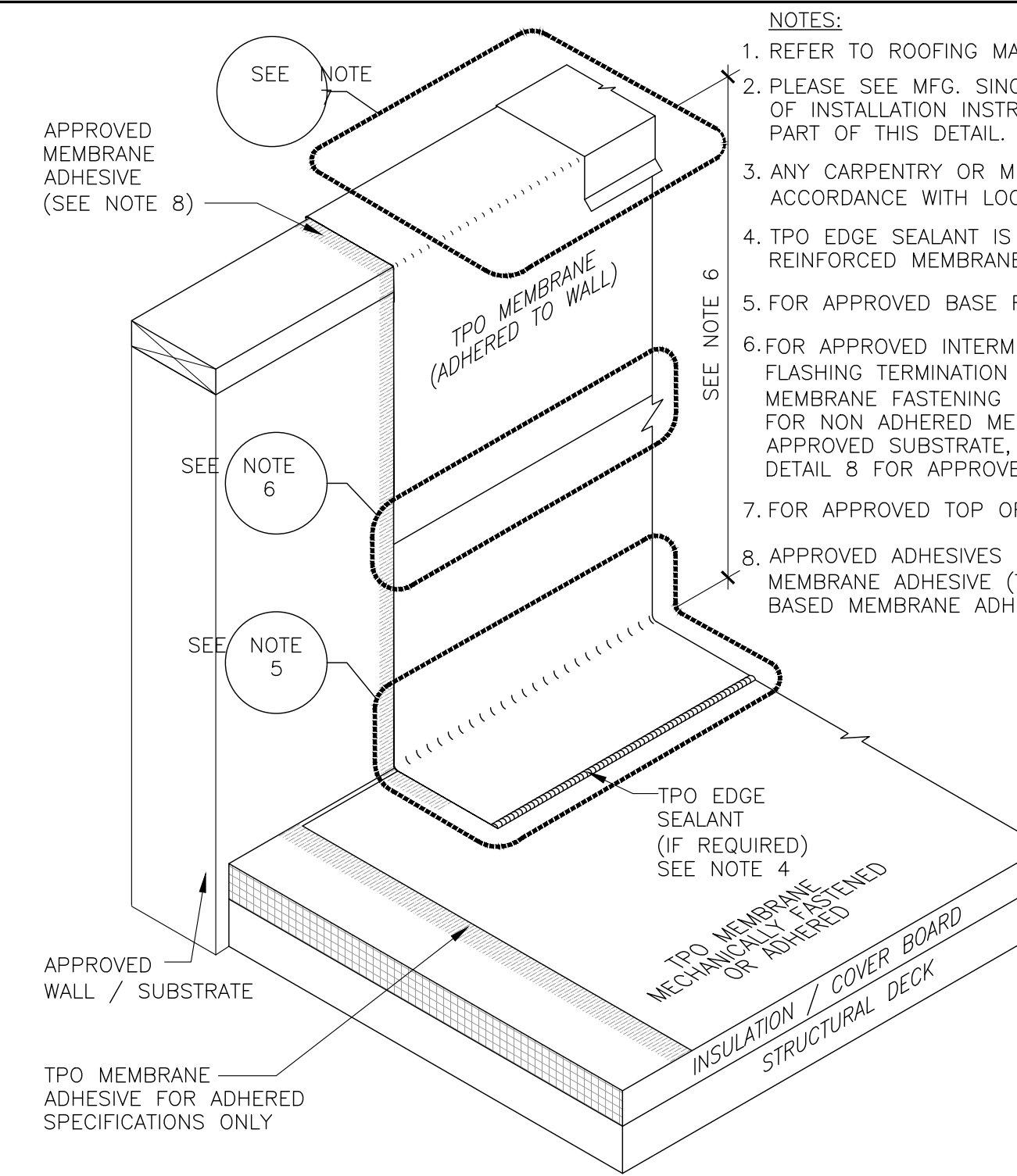
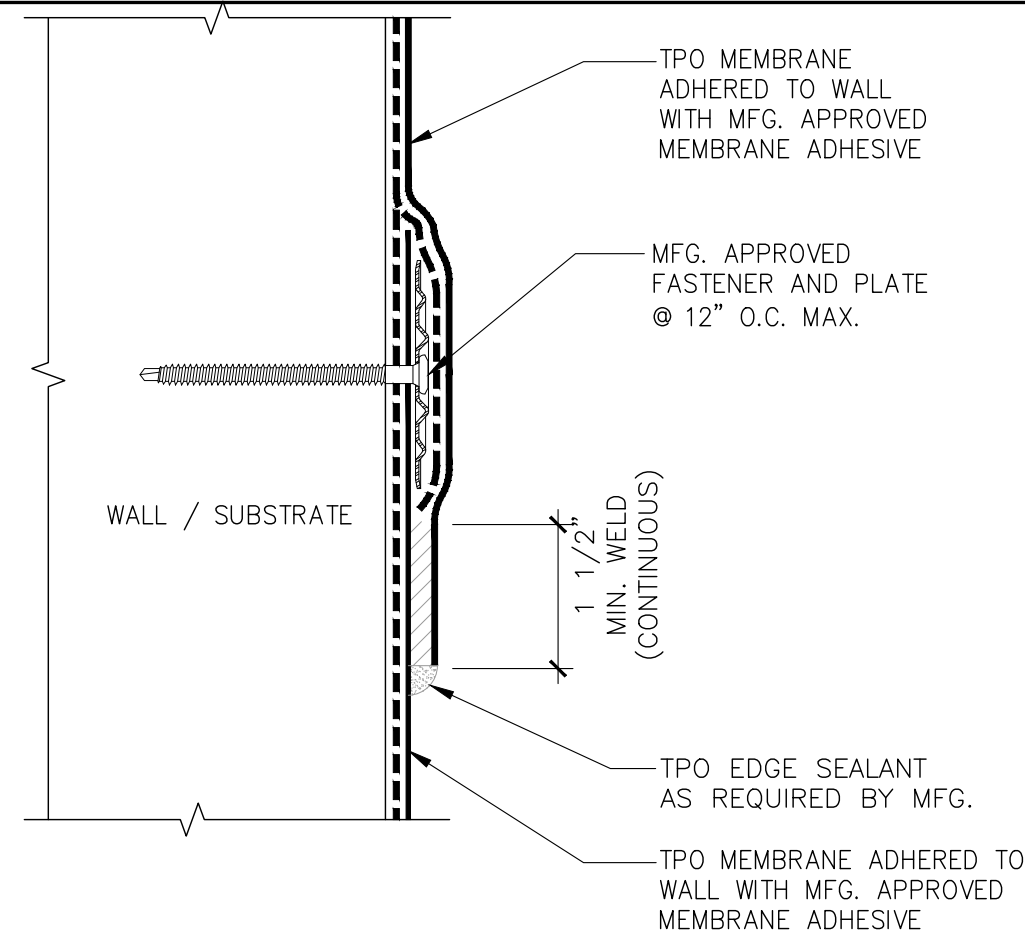


**PARAPET DETAIL 12**

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

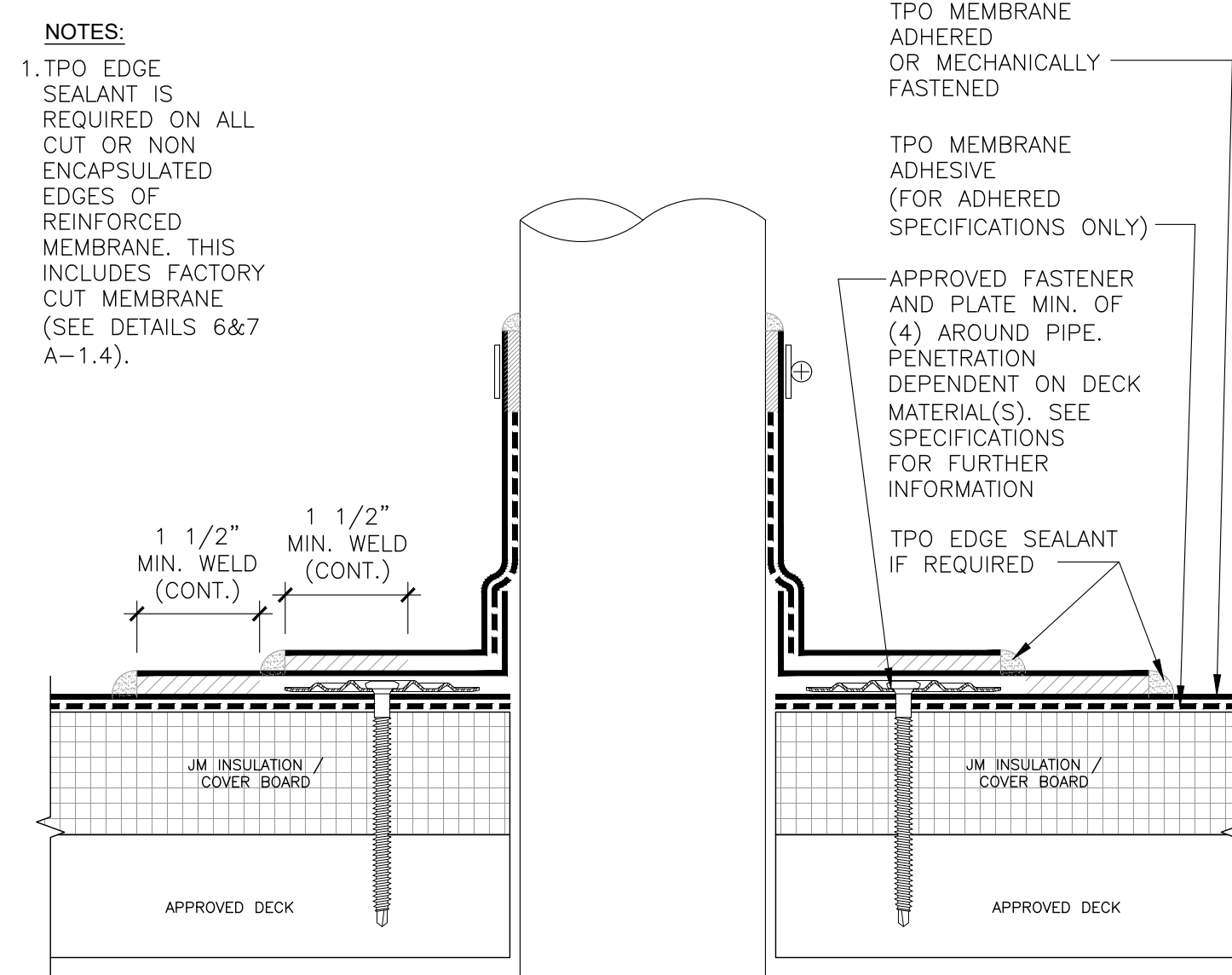
**LAP FLASHING DETAIL 8**

NOT TO SCALE



**PARAPET MASTER DETAIL 10**

NOT TO SCALE

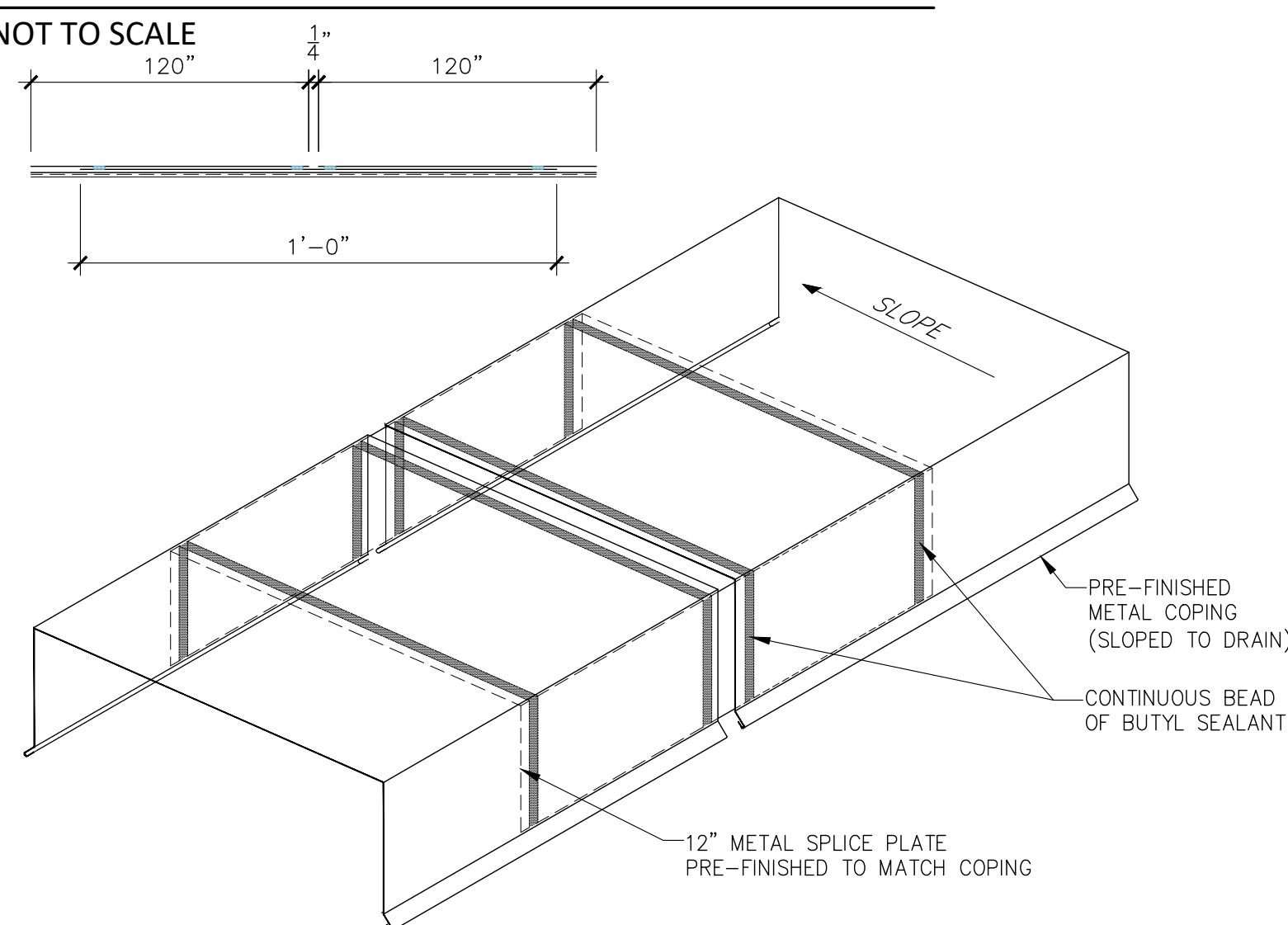


**PIPE PENETRATION DETAIL 5**

NOT TO SCALE

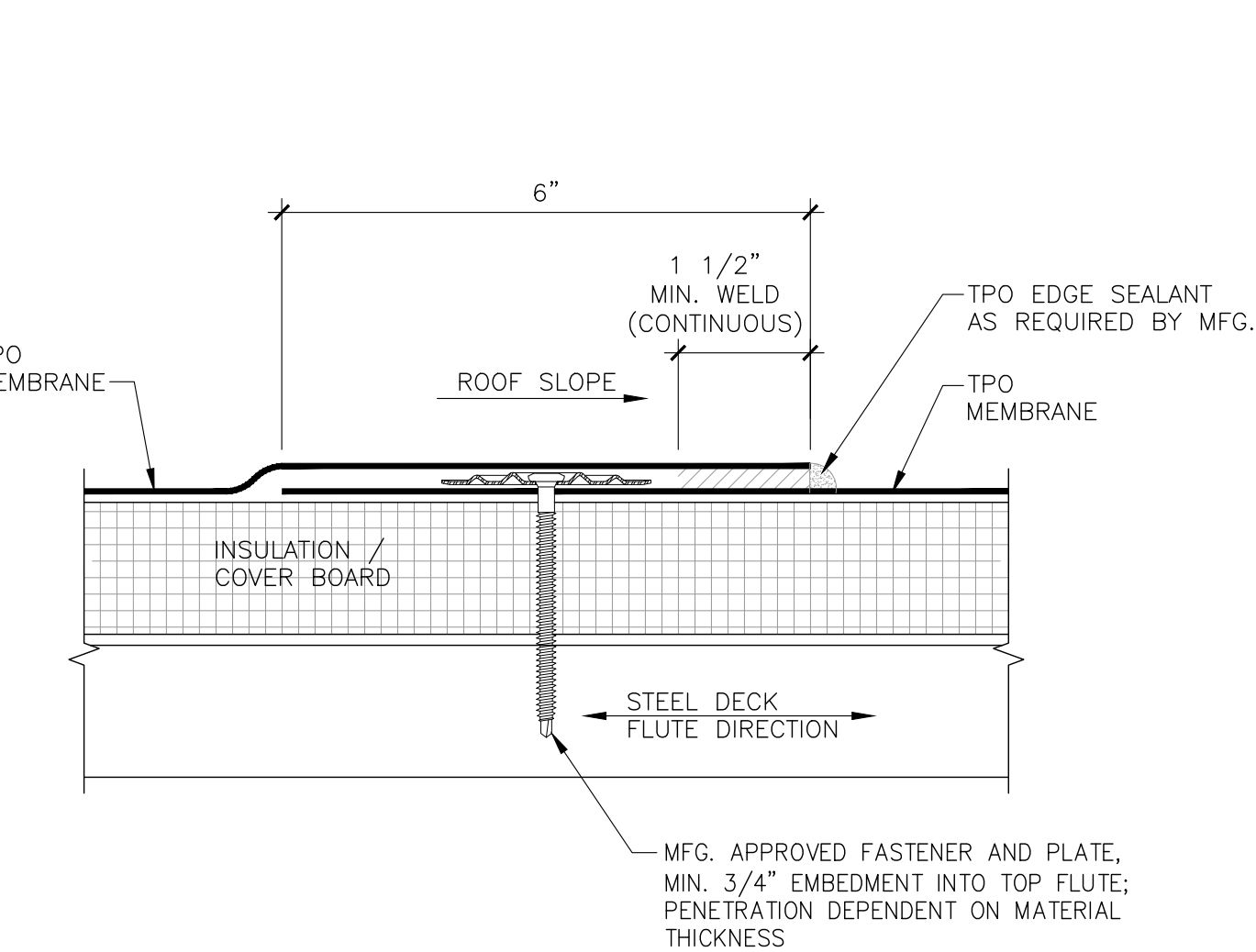
**CUT EDGE SEALANT DETAIL 6**

NOT TO SCALE



**COPING SPLICE DETAIL 1**

NOT TO SCALE

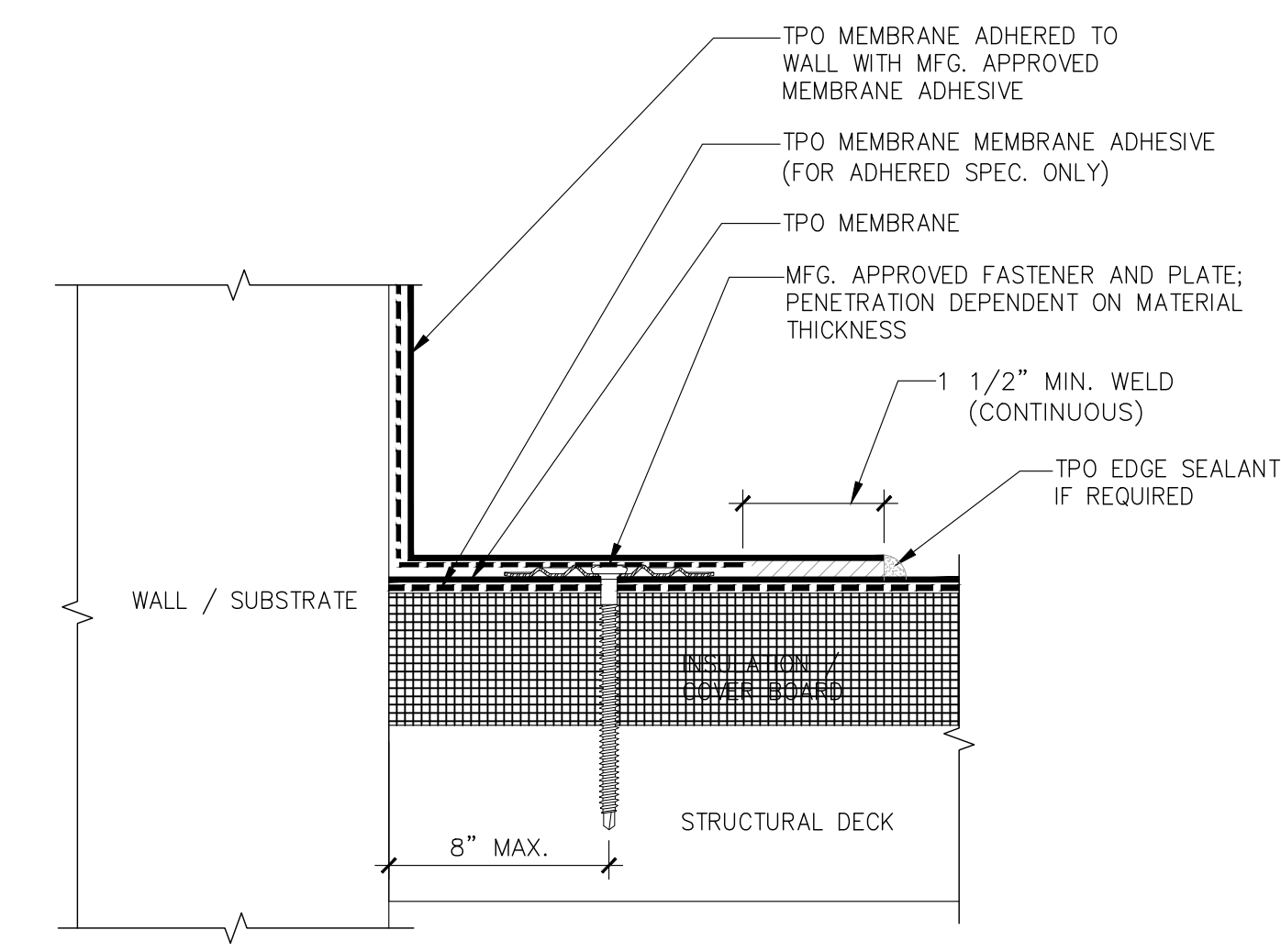


**IN LAP FASTENING DETAIL 7**

NOT TO SCALE

**BASE FLASHING DETAIL 3**

NOT TO SCALE



- NOTES:**
1. REFER TO ROOFING MANUFACTURER'S WEBSITE FOR MOST UP-TO-DATE INFORMATION.
  2. PLEASE SEE MFG. SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
  3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS.
  4. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
  5. FOR APPROVED BASE FLASHING FASTENING METHODS SEE DETAIL 3
  6. FOR APPROVED INTERMEDIATE FLASHING FASTENING METHODS SEE DETAIL 8/. MINIMUM FLASHING TERMINATION HEIGHT IS 8" ABOVE ROOF SURFACE. INTERMEDIATE ADHERED MEMBRANE FASTENING REQUIRED AT 5'-0" INTERVALS MAXIMUM, AND 18" HIGH MAXIMUM FOR NON ADHERED MEMBRANE ON CMU, BRICK, SMOOTH CONCRETE WALLS, OR ANY APPROVED SUBSTRATE, I.E. PLYWOOD, SECURROCK, GYPSUM-FIBER AND DENSDECK. SEE DETAIL 8 FOR APPROVED FASTENING METHODS.
  7. FOR APPROVED TOP OF WALL FLASHING METHODS SEE DETAIL 11
  8. APPROVED ADHESIVES FOR USE ON VERTICAL FLASHING APPLICATIONS INCLUDES LVOC MEMBRANE ADHESIVE (TPO), MEMBRANE BONDING ADHESIVE (TPO) AND JM TPO WATER BASED MEMBRANE ADHESIVE.

**HOT VENT PIPE DETAIL 4**

NOT TO SCALE

CRAIG A. SOMMERS AIA  
FL ARCHITECT - AR0016480

**DSAE**  
DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.

370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
Florida License No.: AA26000952

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JACKSONVILLE, FLORIDA 32211

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**REFLECTED CEILING PLAN**

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



SERVICE BAY

108

STORAGE  
104

TOILET  
105

HALL  
107

OFFICE  
103

TOILET  
106

RECEPTION  
102

WAITING  
101

PROPOSED VEHICLE  
HOLDING

**NO  
WORK**

**CEILING PLAN LEGEND**

	ACOUSTICAL CEILING TILE		RECESSED LED CAN LIGHT FIXTURE
	GYPSUM WALLBOARD SOFFIT CEILING		1 X 4 LIGHT FIXTURE
	2 X 2 SUPPLY DIFFUSER		RECESSED CEILING FIXTURE
	2 X 2 RETURN AIR REGISTER		EMERGENCY LIGHT/EXIT SIGN
	EXHAUST AIR REGISTER		EXIT SIGN
	2 X 4 LIGHT FIXTURE		EMERGENCY LIGHT
	2 X 2 LIGHT FIXTURE		LED TRACK LIGHT
	DUCT MOUNTED SUPPLY GRILL		JUNCTION BOX
			DUCT MOUNTED RETURN GRILL

- NOTES:**
1. FOOD PREPARATION RATED ACOUSTICAL CEILING: 2 x 2 SQUARE EDGED VINYL-FACED ACOUSTICAL CEILING EQUAL TO ARMSTRONG FINE FISSURED CERAMAGUARD (PLAIN PATTERN, NON-PERFORATED) (24" x 24" x 5/8"). NRC = .10
  2. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT & ENGINEER OR ANY DISCREPANCIES.

CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

**DSIAE**  
DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0686 p  
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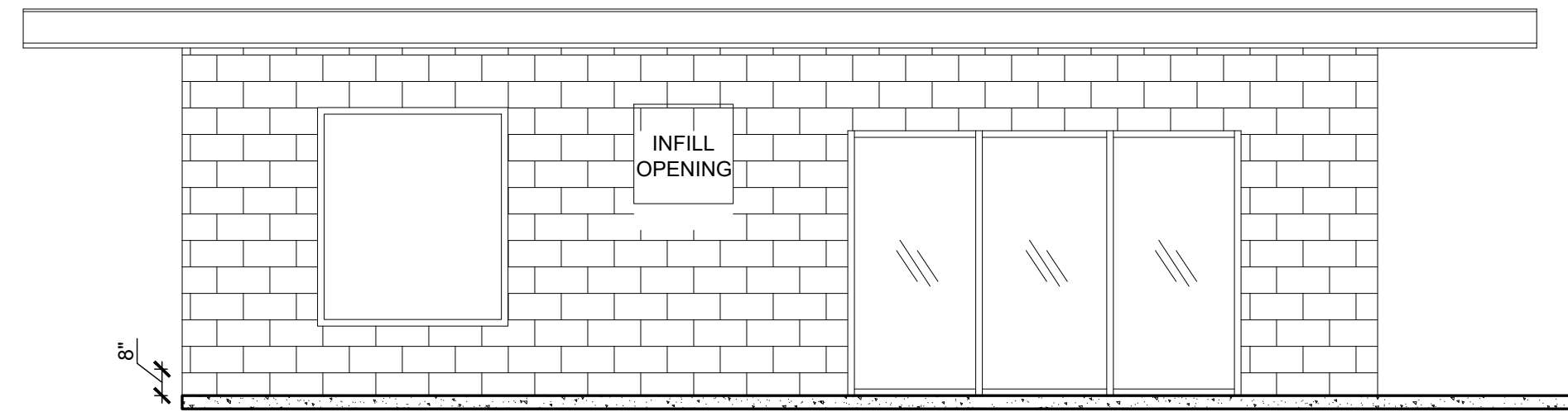
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SHEET TITLE: REFLECTED CEILING PLAN	
NO.	REVISION
DATE	

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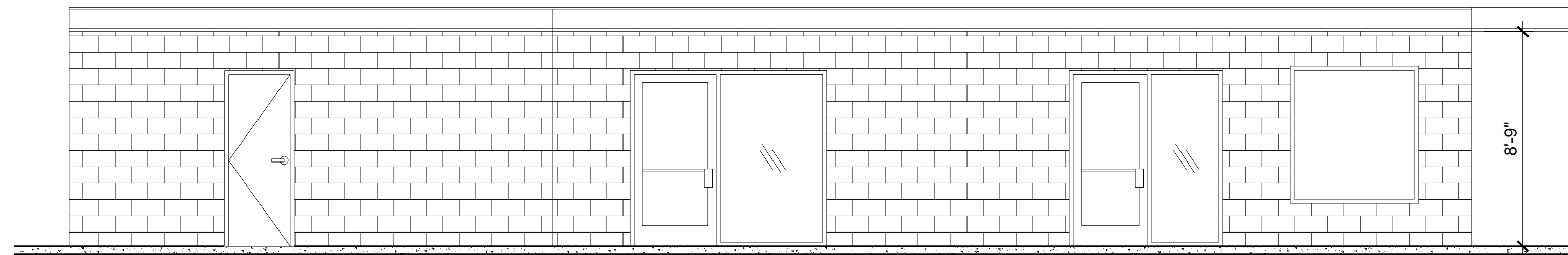
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**A-1.6**  
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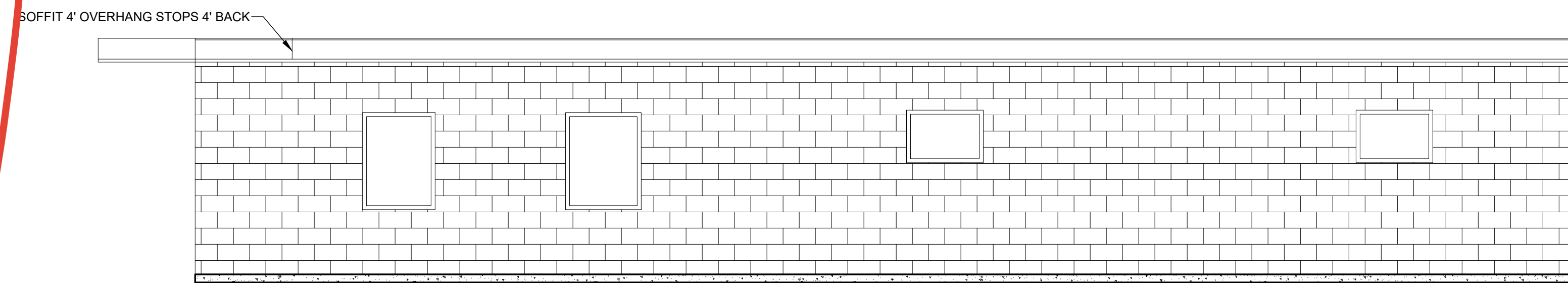
**NORTH ELEVATION**

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



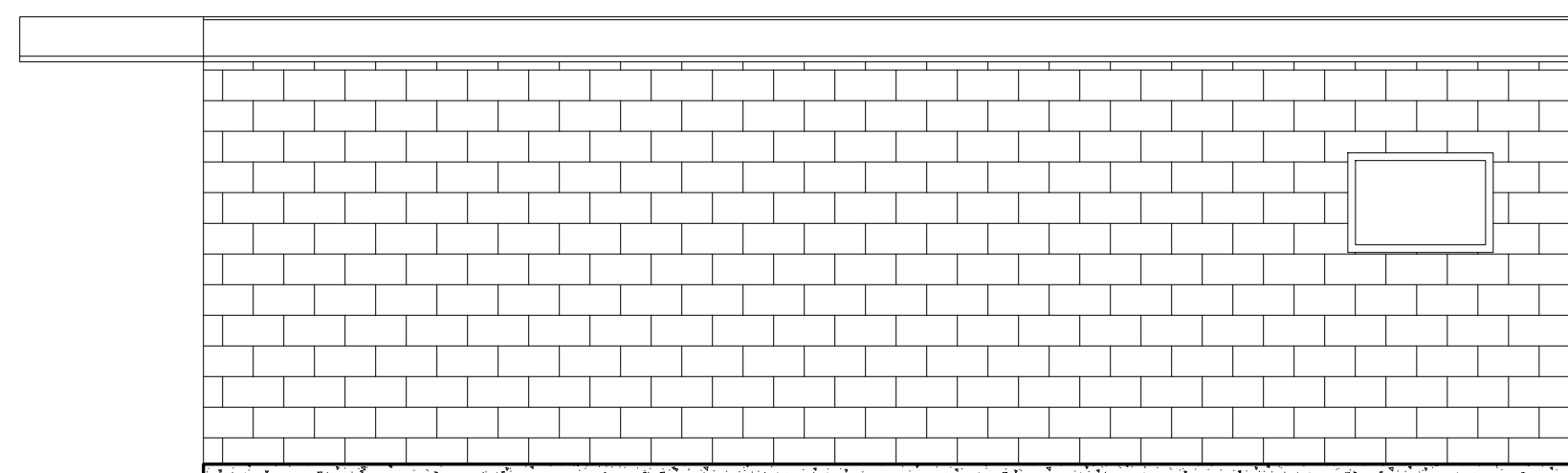
**EAST ELEVATION**

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



**WEST ELEVATION**

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



**SOUTH ELEVATION**

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

INCLUDED

CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

**DSAE**  
DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0686 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
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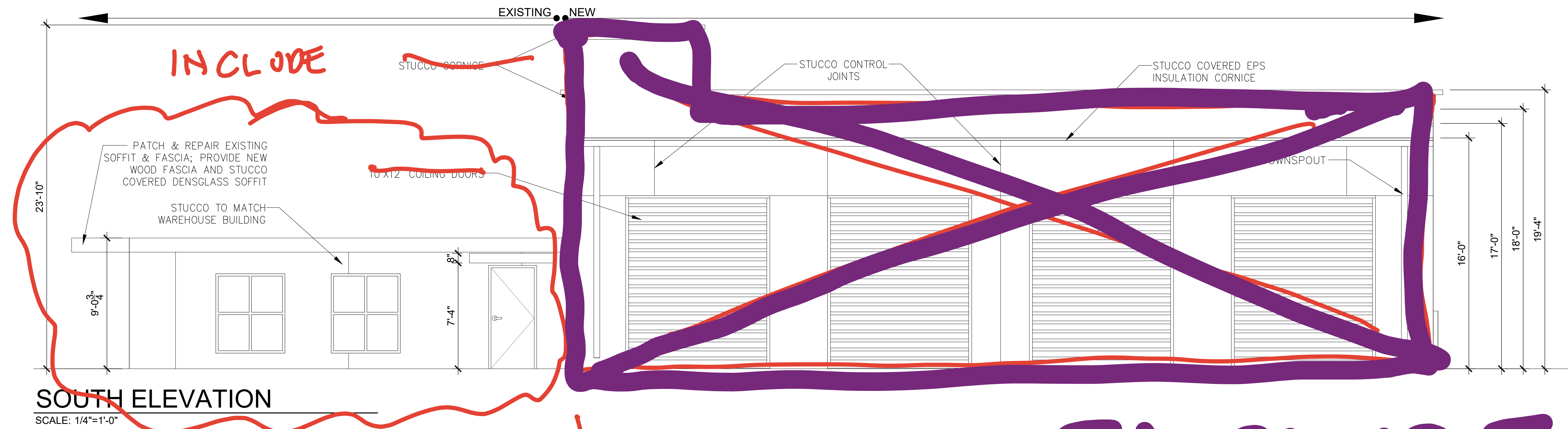
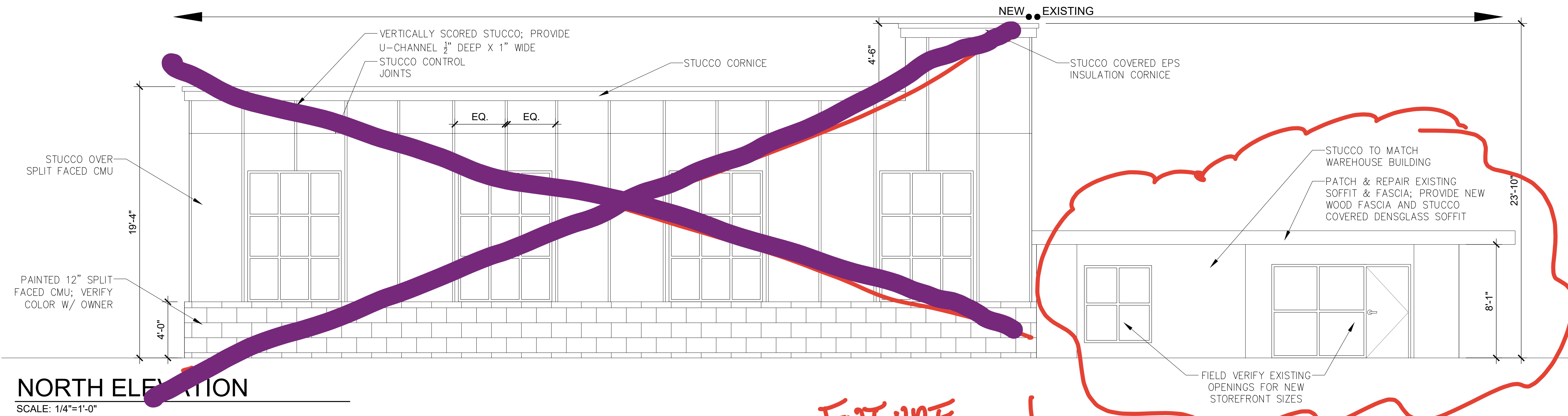
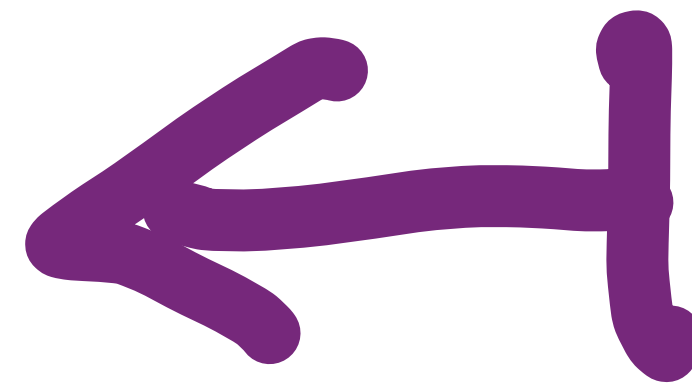
SHEET TITLE: EXISTING BUILDING ELEVATIONS	
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**A-2**  
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# EXCLUDE



# EXCLUDE



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370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
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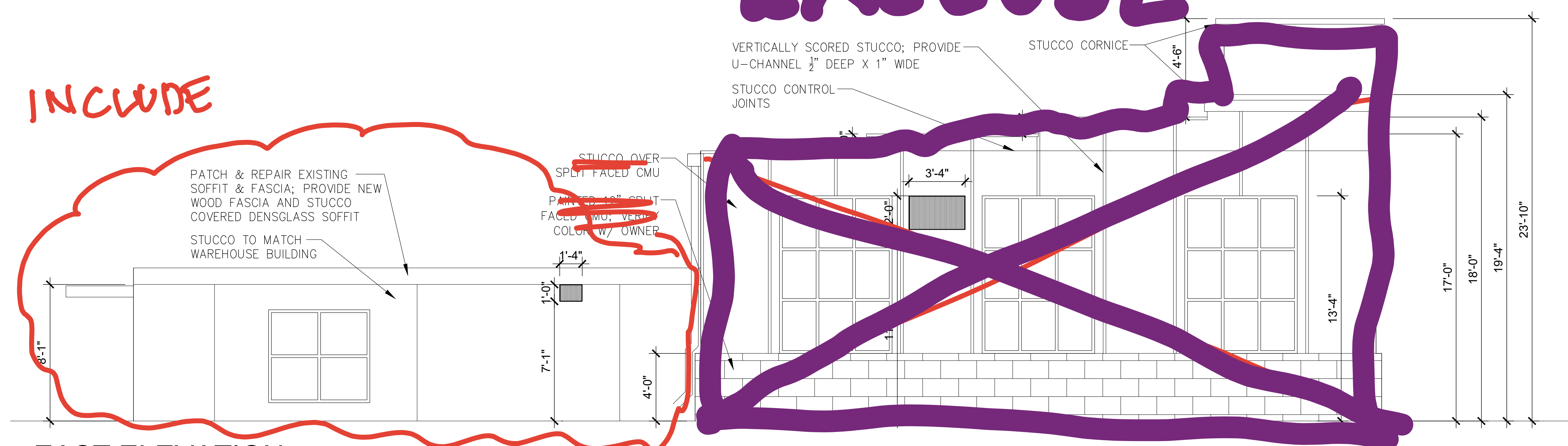
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SHEET  
**A-2.1**  
**OPTION 2**

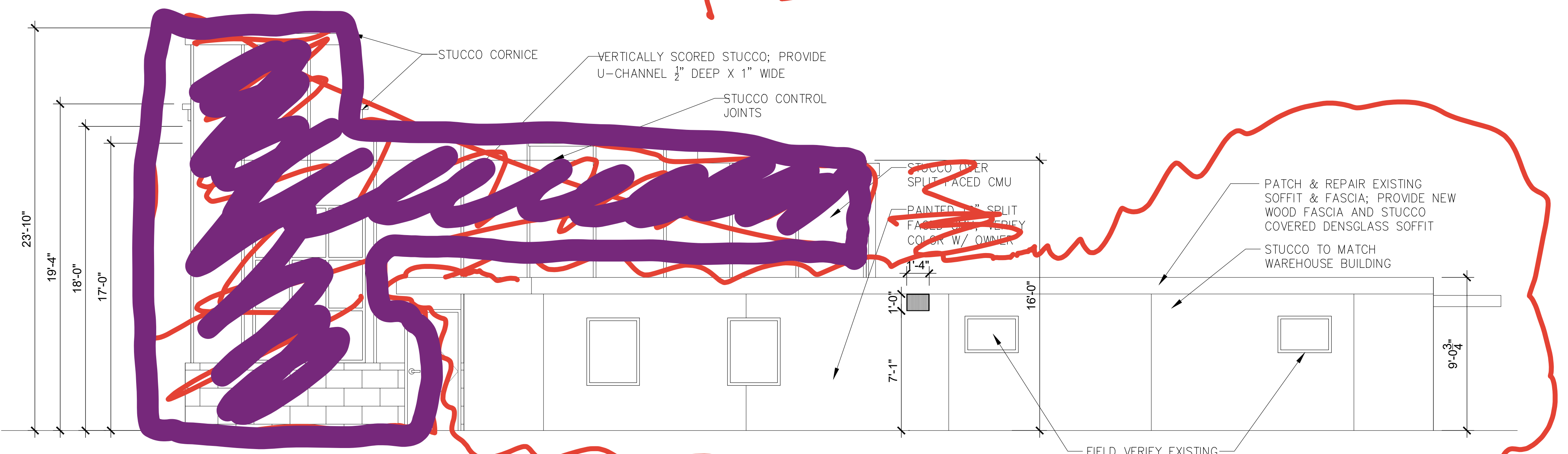
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# EXCLUDE

## INCLUDE

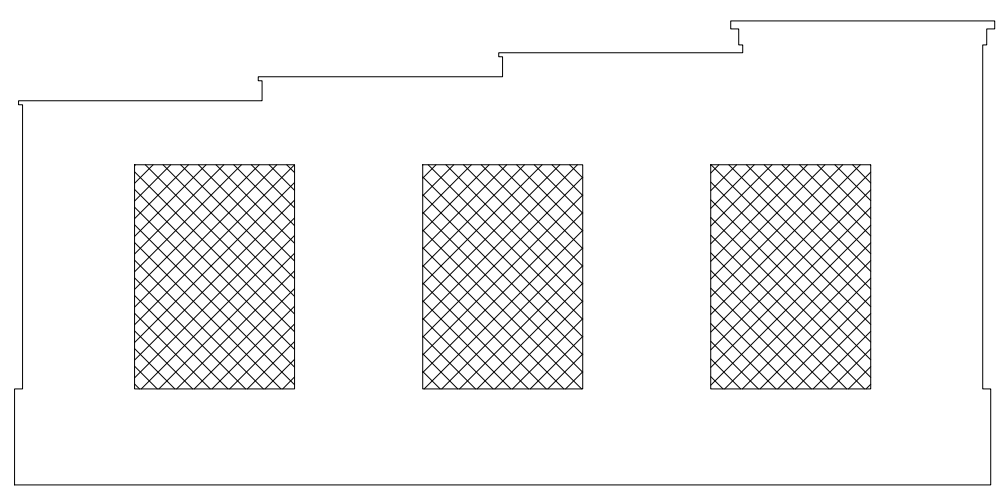


EAST ELEVATION  
SCALE: 1/4"=1'-0"

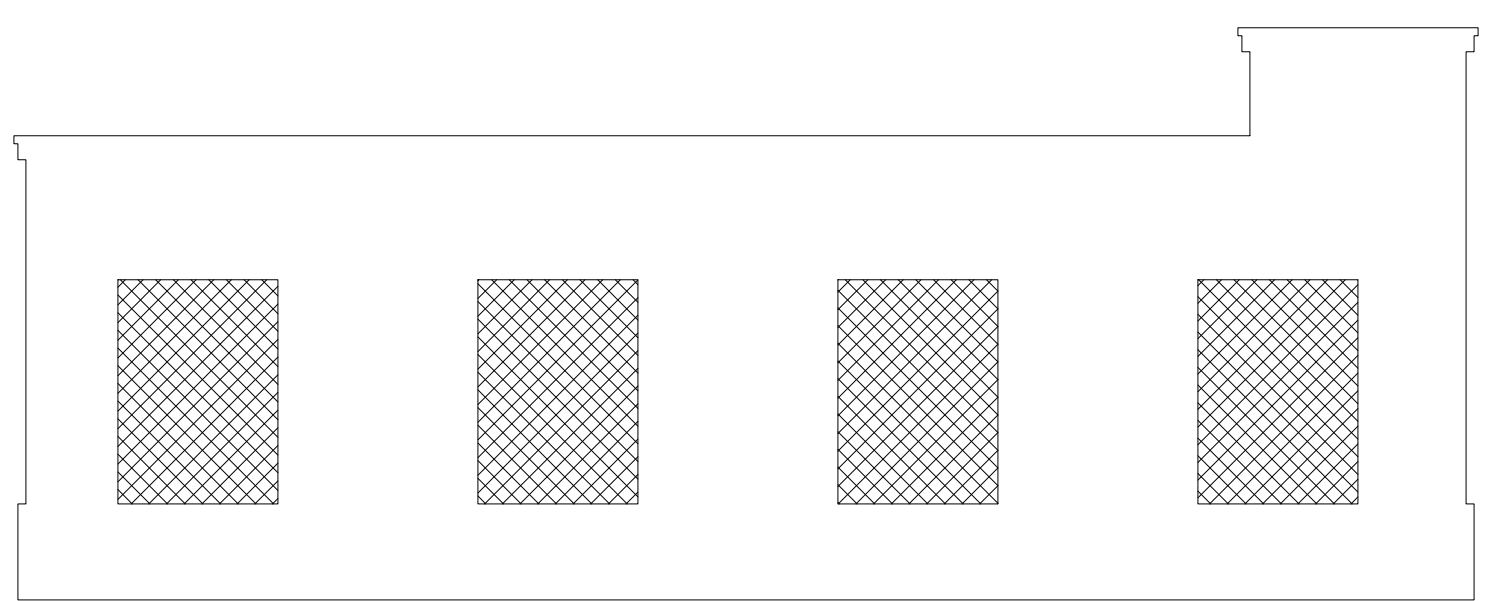


WEST ELEVATION  
SCALE: 1/4"=1'-0"

# EXCLUDE



706.7 SF TOTAL AREA  
186.66 SF TOTAL STOREFRONT  
TOTAL STOREFRONT = 26.4% OF TOTAL AREA



1204.33 SF TOTAL AREA  
248.89 SF TOTAL STOREFRONT  
TOTAL STOREFRONT = 20.66% OF TOTAL AREA

## INCLUDE

THE FIRST LAYER OF THE VAPOR PERMEABLE MEMBRANE SHALL BE THE AIR BARRIER SYSTEM (i.e. ONE COMPONENT FLUID-APPLIED, VAPOR PERMEABLE, AIR/WATER-RESISTIVE BARRIER APPROVED FOR SECONDARY MOISTURE PROTECTION). THE AIR BARRIER SYSTEM INSTALLATION SHALL BE COMPLETE TO SEAL PENETRATIONS (i.e. UTILIZING WRAP CAP SCREWS & NAILS, & FLASHING TAPE), LAP & TAPE JOINTS AND CAULKED AT WINDOW AND DOOR OPENINGS PER THE RECOMMENDATIONS OF THE WRAP MANUFACTURER AND THE AIR BARRIER ASSOCIATION OF AMERICA. THE SECOND LAYER SHALL BE OFFSET ASPHALT SATURATED KRAFT BUILDING PAPER WITH A DRAINAGE PLANE (GRADE D MIN - i.e. AMICO TILATH)

INSTALL AIR BARRIER SYSTEM PRIOR TO THE INSTALLATION OF WINDOWS AND DOORS; VERIFY WITH AIR BARRIER MANUFACTURER

AIR BARRIER SYSTEM SHALL INCLUDE A WATER-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER THE UNDERLAYMENT SYSTEM SHALL BE A COMPLETE SYSTEM THAT HAS BEEN APPROVED BY THE STUCCO SUPPLIER AND NOT A SERIES OF COMPONENTS

CONTRACTOR'S OPTION:  
PROVIDE DEN-SYSTEM BARRIER SYSTEM WITH AQUAKOR WRB-AB & PROSOCO R-GUARD FASTFLASH LIQUID FLASHING WITH INTEGRAL AIR & WATER BARRIER IN LIEU OF DEN-GLASS & FLUID APPLIED WRB-AB

FASTENERS: METAL PLATES, CONNECTORS, SCREWS, BOLTS, AND NAILS SHALL BE STAINLESS STEEL, HOT DIPPED GALVANIZED AFTER THE FASTENER OR CONNECTOR IS FABRICATED TO FORM A ZINC COATING NOT LESS THAN 1 OUNCE PER SQUARE FOOT OR HOT DIPPED GALVANIZED COATED WITH A MINIMUM OF 1.8 OUNCE PER SQUARE FOOT OF STEEL (FRC 605.1.2.3)

INSTALL STUCCO SYSTEM PER MANUFACTURER'S SPECIFICATIONS & ASTM STANDARDS; PROVIDE UNDER-LAYMENT BARRIERS, CONTROL JOINTS, CASING BEADS, WEEP SCREEDS, CORNER AIDS AND OTHER ACCESSORIES AS REQUIRED BY THE STUCCO MANUFACTURER

STUCCO SYSTEM OVER CMU: DIRECT APPLIED EQUAL TO 1/2" - 5/8" THICK STO POWERWALL - EXTRASEAL WITH CRACK DEFENSE MESH AND BASECOAT.

INSTALL PER MANUFACTURER'S & ASTM STANDARDS; PROVIDE UNDER-LAYMENT BARRIERS, CONTROL JOINTS, CASING BEADS, WEEP SCREEDS, CORNER AIDS AND OTHER ACCESSORIES AS REQUIRED BY THE STUCCO MANUFACTURER

CRAIG A. SOMMERS AIA  
FL ARCHITECT - AR0016480

**DISAIE**  
DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009939  
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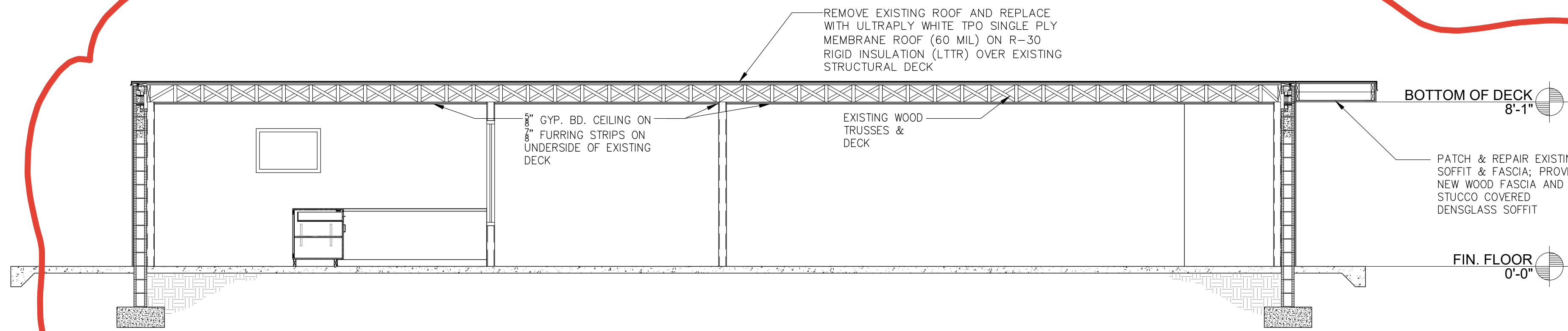
ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: BUILDING ELEVATIONS	
NO.	DATE
REVISION	

DRAWN BY: CAS  
CHECKED BY: CAS  
DATE: 03-16-23

SHEET  
**A-2.2**  
**OPTION 2**

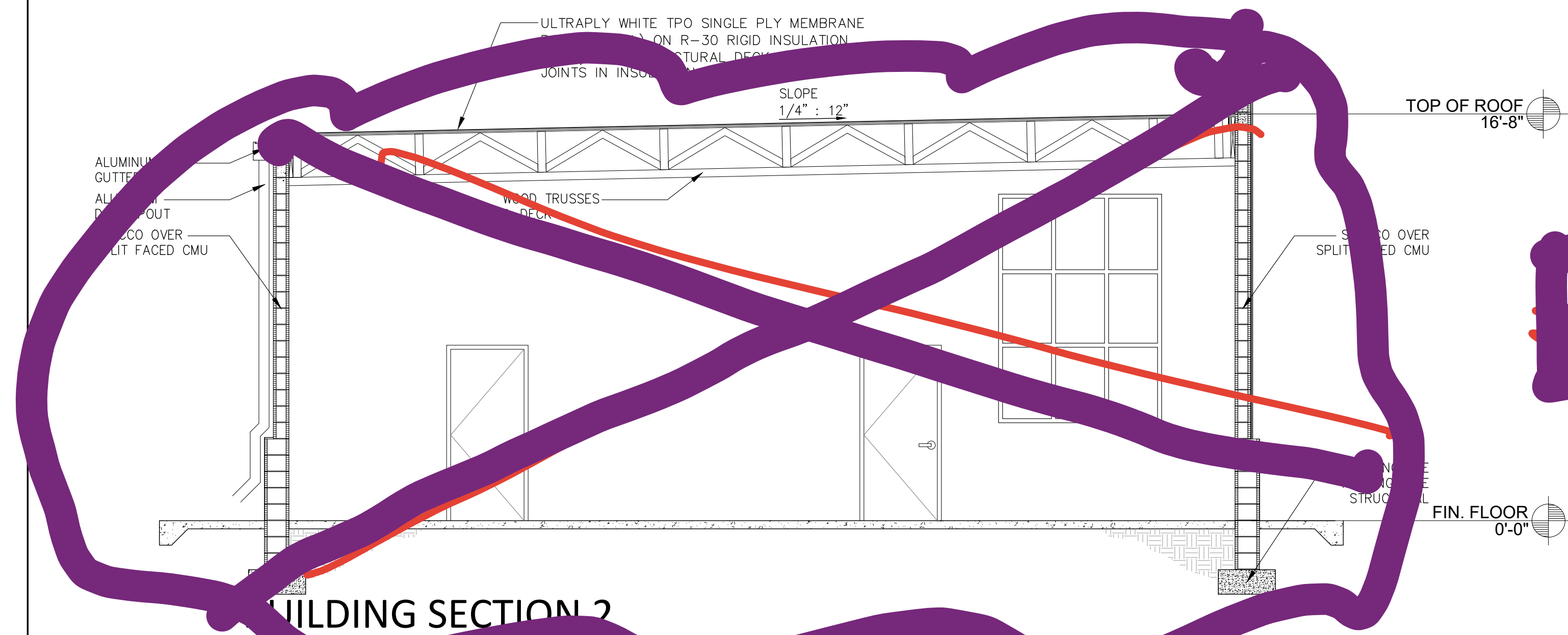
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INCLUDE

**BUILDING SECTION 1**

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



EXCLUDE

**BUILDING SECTION 2**

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

INCLUDED



EXCLUDE

**BUILDING SECTION 3**

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

INCLUDED SLAB & FOUNDATIONS

CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

**DSIAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
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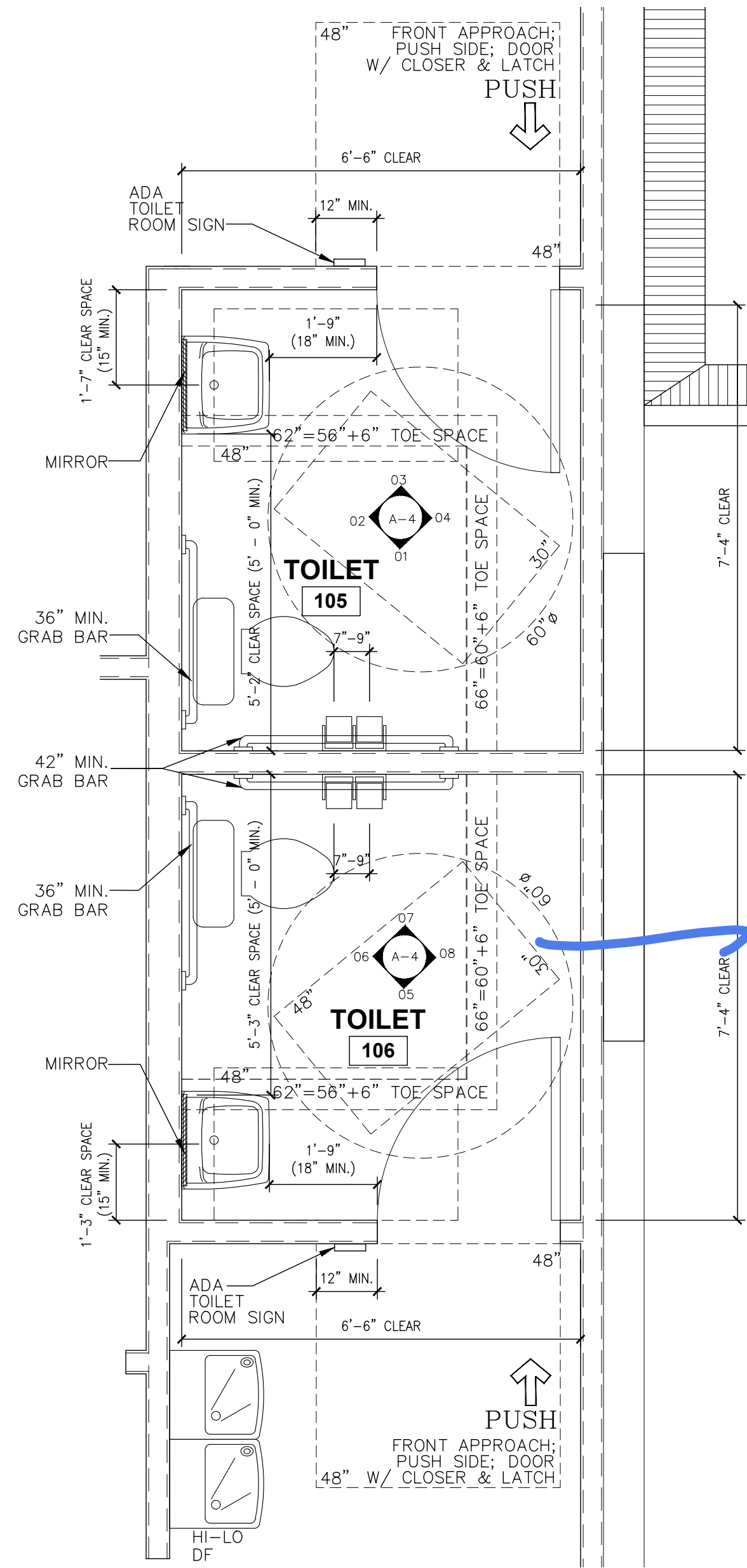
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SHEET TITLE: BUILDING SECTIONS	
NO.	REVISION

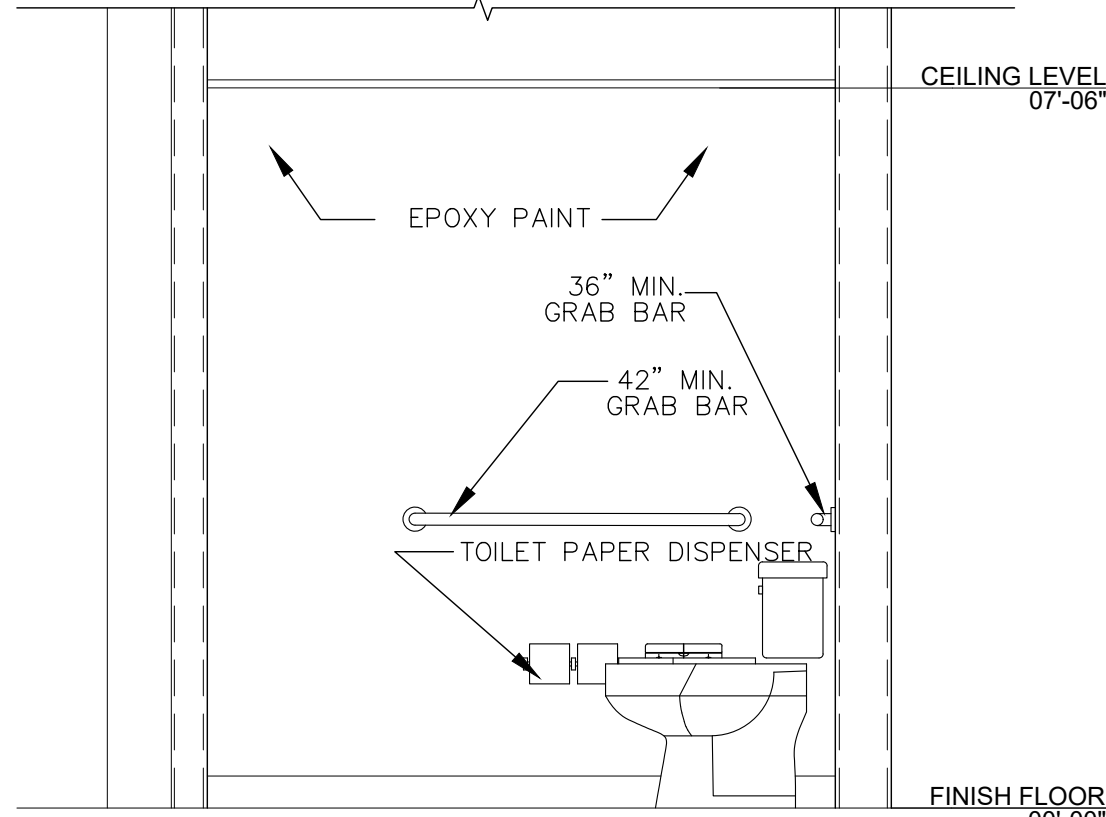
DRAWN BY: CAS  
CHECKED BY: CAS  
DATE: 03-16-23

SHEET  
**A-3**  
**OPTION 2**

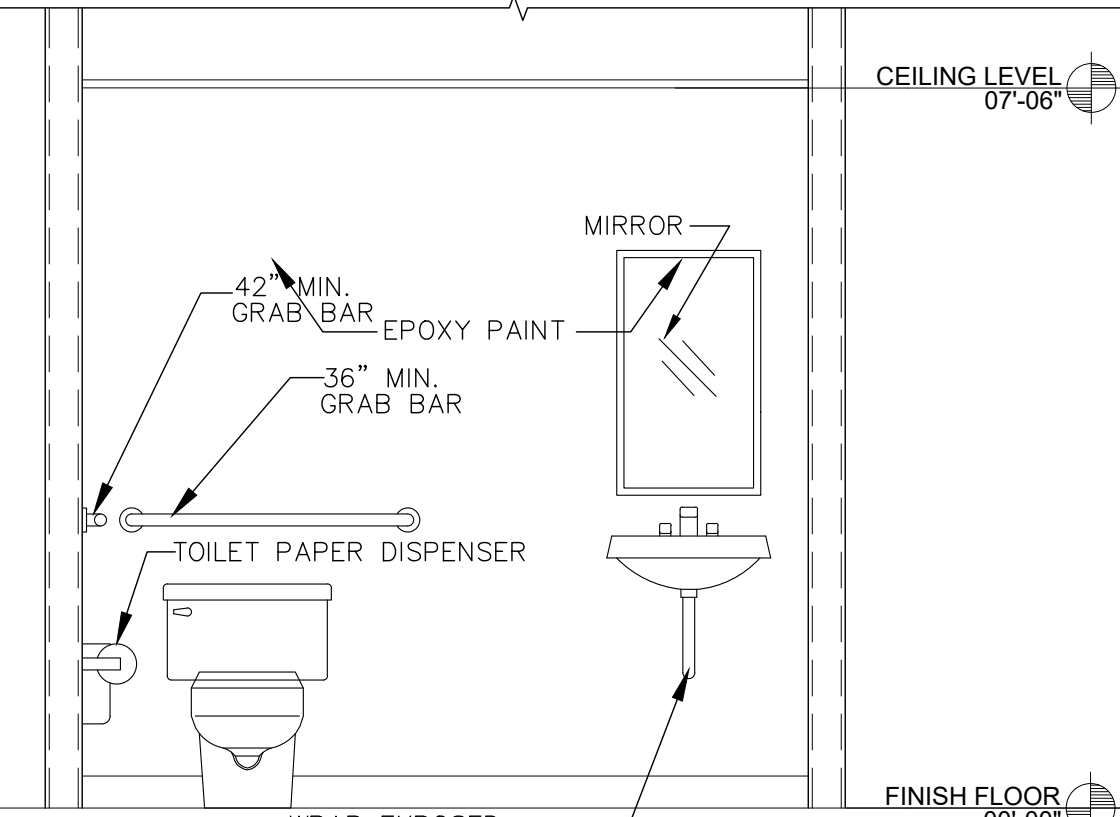
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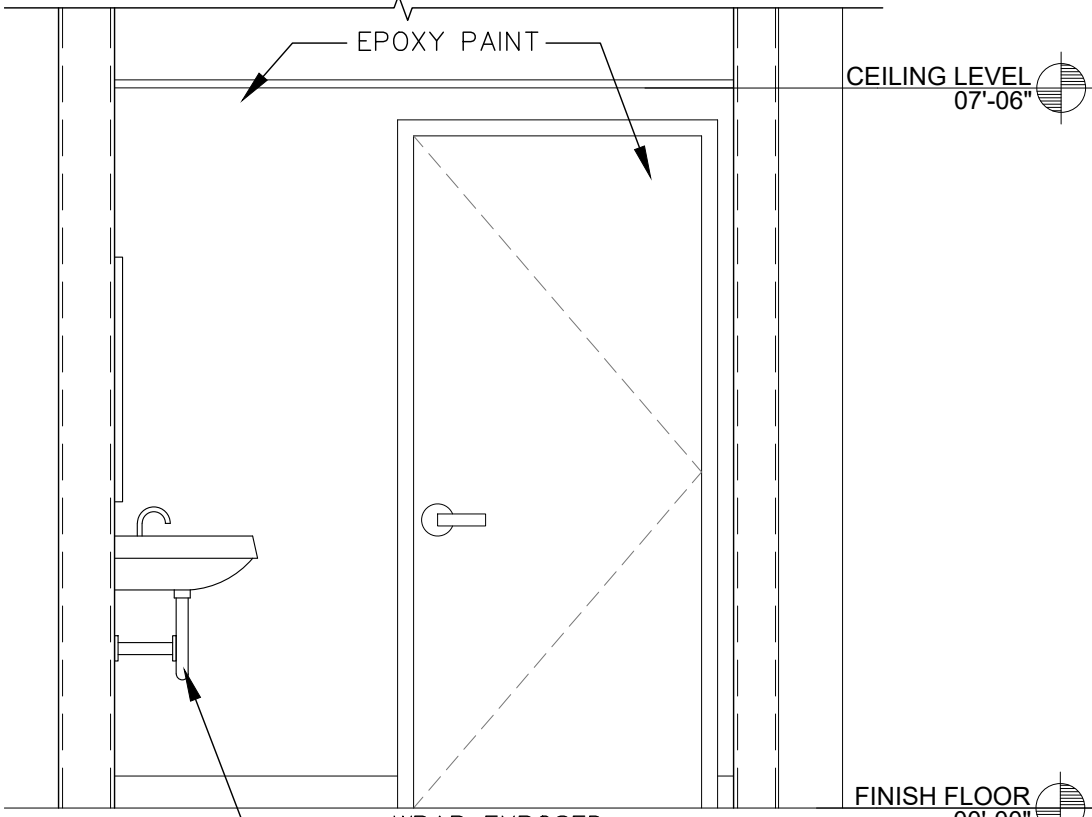
**ELEVATION 01**  
SCALE: 1/2" = 1'-0"



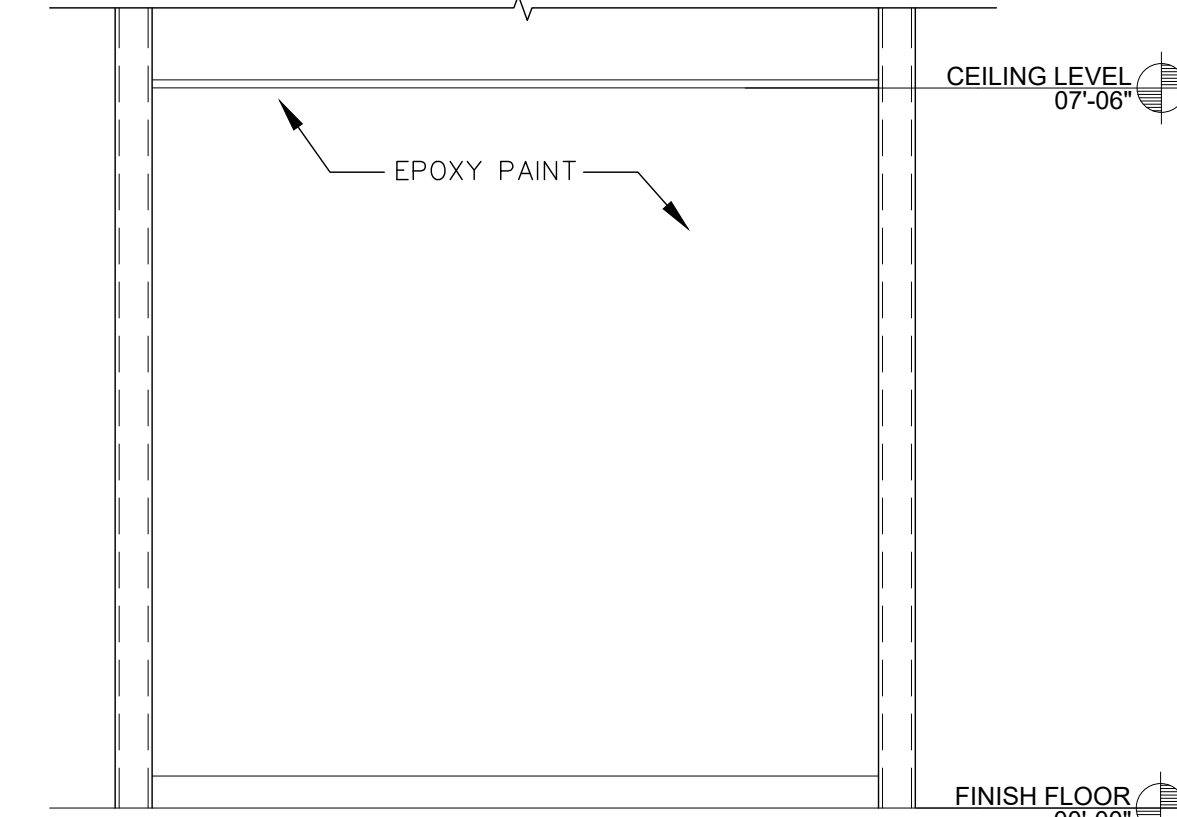
**ELEVATION 02**  
SCALE: 1/2" = 1'-0"



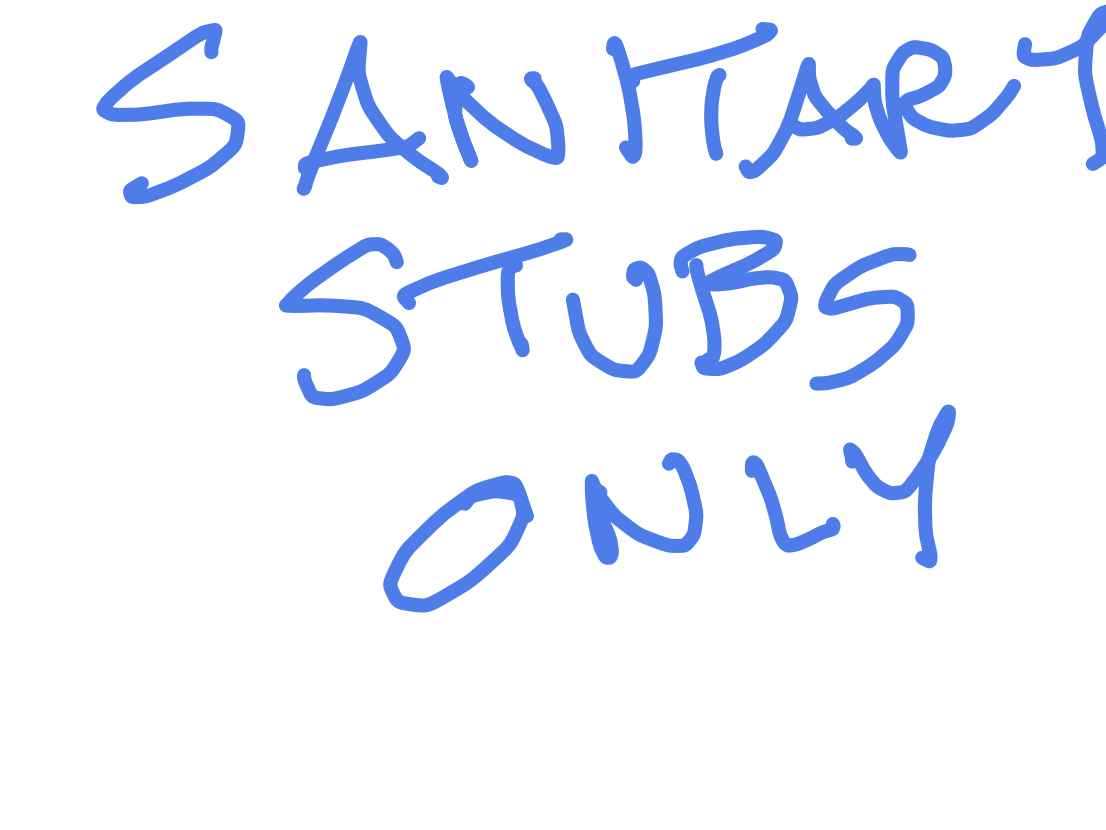
**ELEVATION 03**  
SCALE: 1/2" = 1'-0"



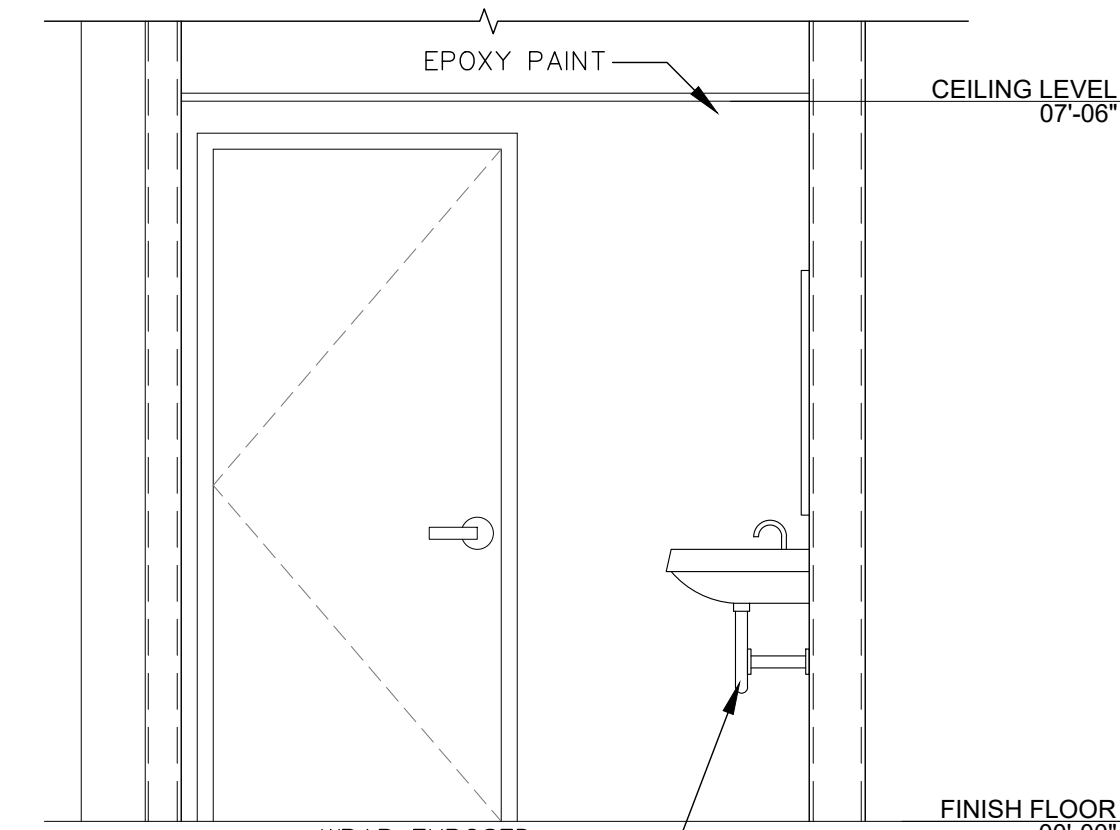
**ELEVATION 04**  
SCALE: 1/2" = 1'-0"



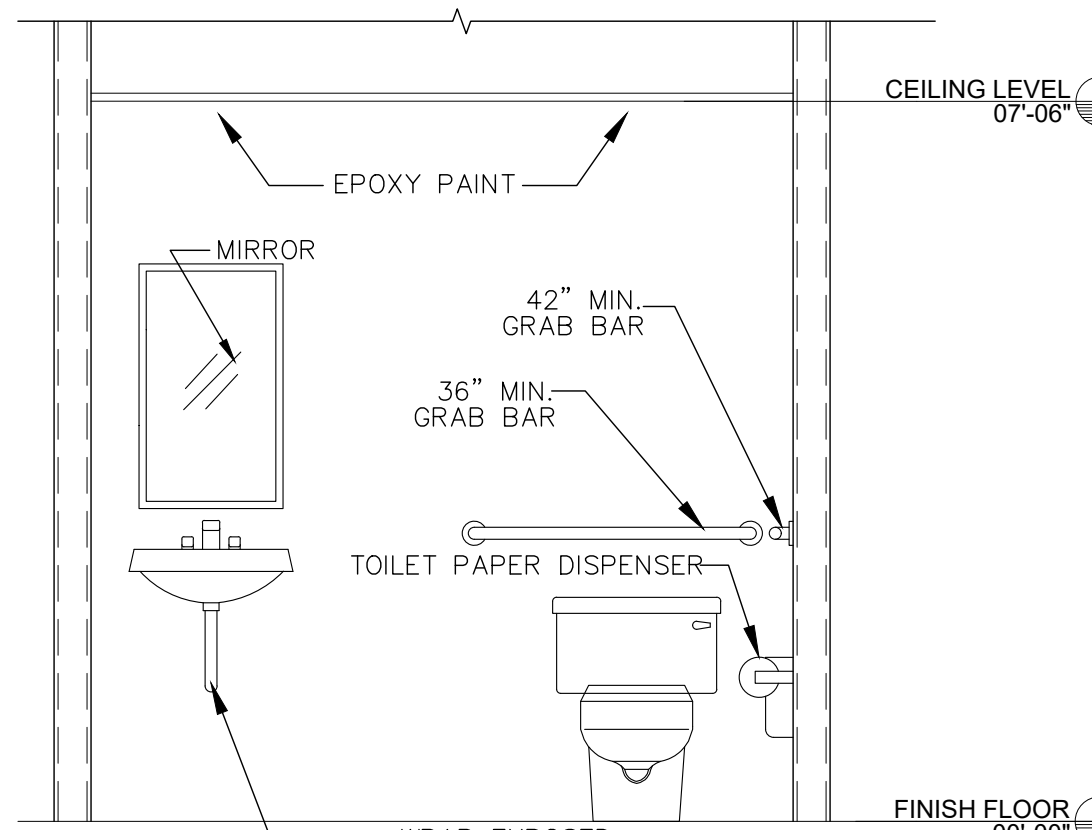
**ELEVATION 05**  
SCALE: 1/2" = 1'-0"



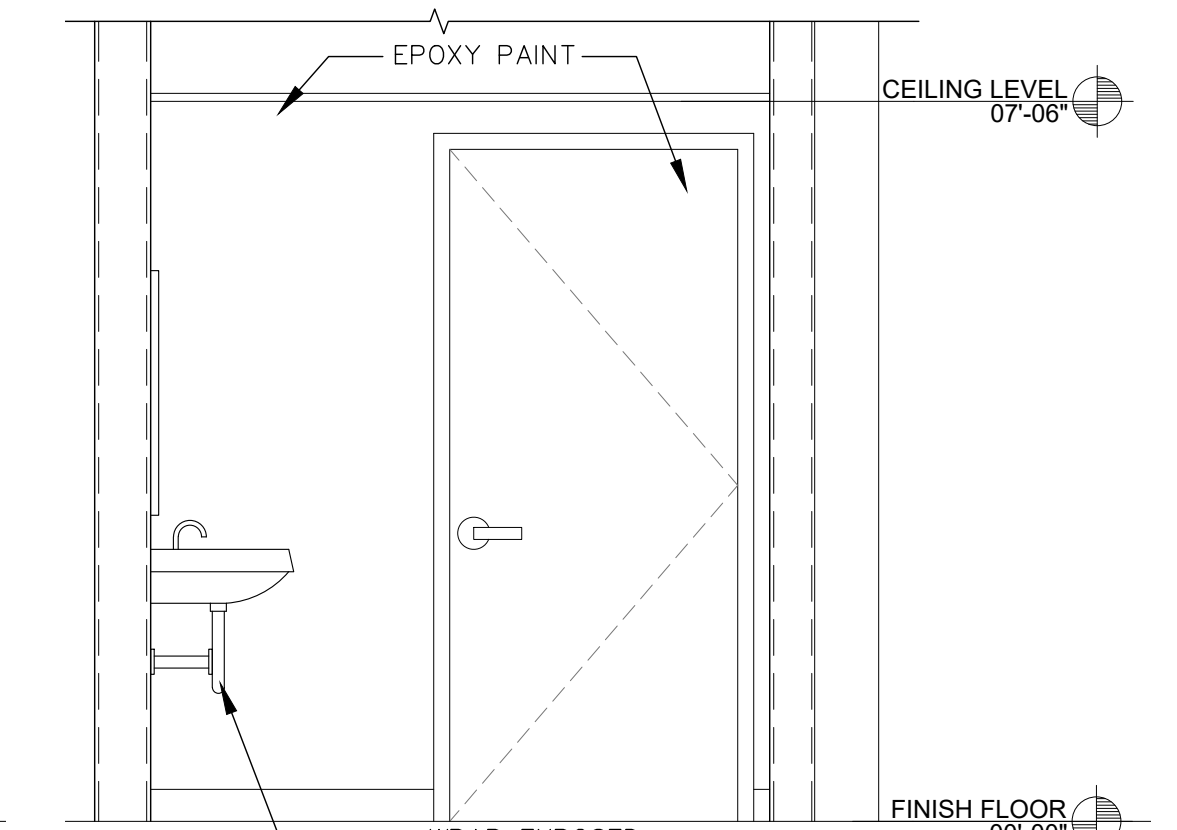
**ELEVATION 06**  
SCALE: 1/2" = 1'-0"



**ELEVATION 07**  
SCALE: 1/2" = 1'-0"



**ELEVATION 08**  
SCALE: 1/2" = 1'-0"



**SANITARY STUBS ONLY**

**ENLARGED TOILET ROOM PLAN**  
SCALE: 1/2" = 1'-0"

**TOILET ACCESSORY LEGEND**

- SURFACE MTD. PAPER TOWEL DISPENSER
- DOUBLE TOILET PAPER HOLDER
- SURFACE MTD. SOAP DISPENSER
- SANITARY NAPKIN DISPOSAL
- MOP HOLDER
- 18 x 42 MIRROR
- HANDICAPPED GRAB BAR (PROVIDE PEENED FINISH ON SHOWER GRAB BAR)
- ELECTRIC HAND DRYER

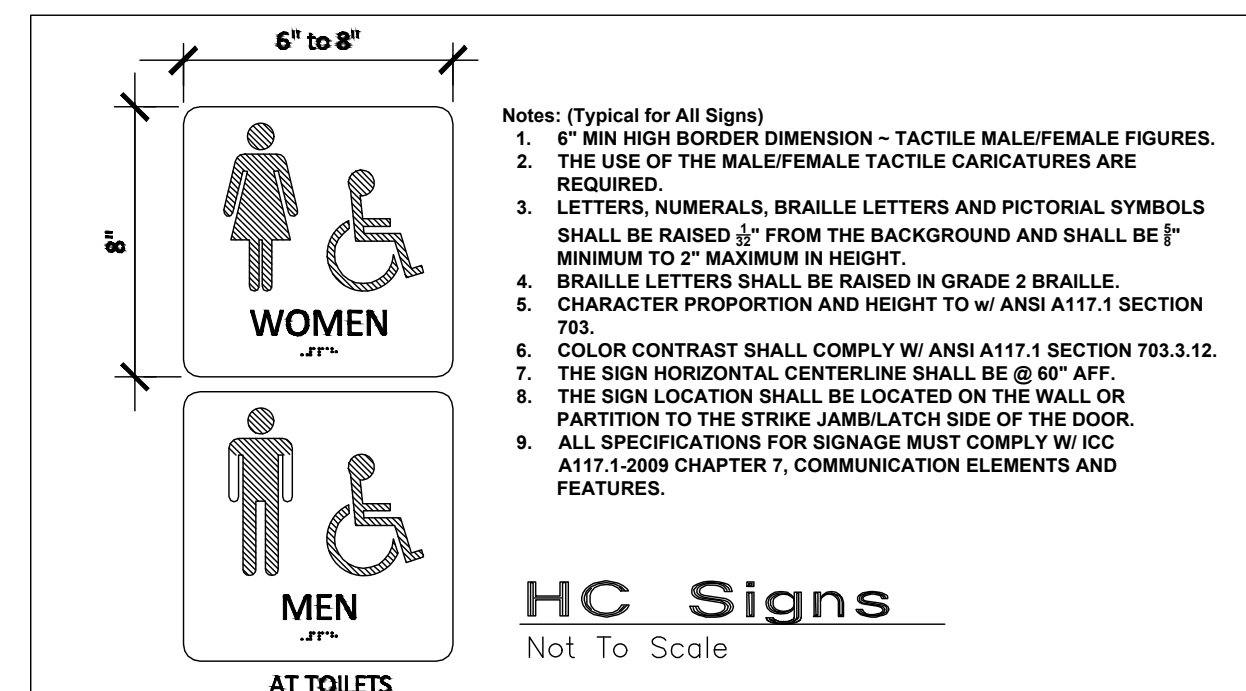
**NOTES**

1. HANDICAPPED ACCESS MOUNTING DIMENSIONS ARE VERY CRITICAL AND HAVE NO MINUS TOLERANCES. MOUNTING LOCATION OF TOILET ACCESSORIES TO BE IN ACCORDANCE WITH A.D.A. TITLE III & FLORIDA BUILDING CODE 7th EDITION (2020) - ACCESSIBILITY.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISH. FINISH THICKNESS MUST BE ADDED TO ANY ROUGH IN DIMENSIONS.

WHERE THE TOILET IS FOR INDIVIDUAL USE AND CLEAR FLOOR SPACE COMPLYING WITH FBC-ACCESS 305.3 (A 30"x48" SPACE) IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE (FBC-ACCESS 603.2.3 EXCEPTION 2)

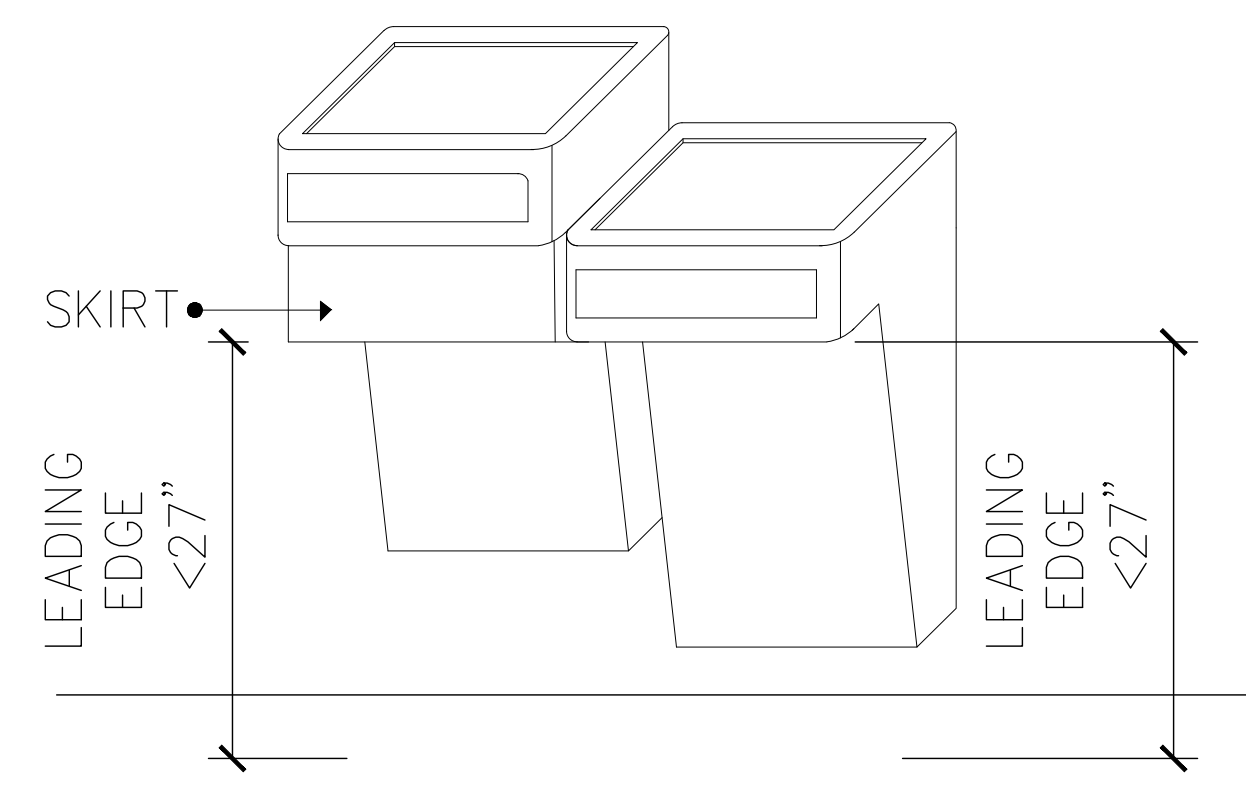
WHERE THE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF THE CLEAR FLOOR OR GROUND SPACE, THE SPACE SHALL COMPLY WITH FBC-ACCESSIBILITY 306 FOR KNEE & TOE CLEARANCE

THE SPACE BENEATH THE SINK COMPLIES WITH THIS REQUIREMENT



WOMEN'S RESTROOM SIGN EQUAL TO ADA SIGN DEPOT - ADA COMPLIANT WOMEN'S RESTROOM SIGNS WITH TACTILE TEXT AND GRADE 2 BRAILLE  
Womens Restroom Braille ADA Signs - 6" x 8" ADA-1020; Color - White on Blue

MEN'S RESTROOM SIGN EQUAL TO ADA SIGN DEPOT - ADA COMPLIANT MEN'S RESTROOM SIGN WITH TACTILE TEXT AND BRAILLE  
Mens Restroom Braille ADA Signs - 6" x 8" ADA-1021; Color - White on Blue



**DRINKING FOUNTAIN**  
SCALE: N.T.S. CANE DETECTABLE SKIRT

CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

**DSAE**  
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370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
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ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: ETR PLAN & ELEVATION	
NO.	REVISION

DRAWN BY: CAS  
CHECKED BY: CAS  
DATE: 03-16-23

SHEET  
**A-4**  
**OPTION 2**

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# DOOR / OPENING SCHEDULE

MARK	LOCATION	DOORS				FRAMES		HDW GRP	LBL/ RTG	REMARKS
		TYPE	SIZE	MATL	GLAZING	MATL	TYPE			
101	WAITING	C	3'0" x 7'0" x 1 3/4"	HM	--	MTL	1			
104	STORAGE	F	3'0" x 7'0" x 1 3/4"	WD	--	MTL	3	90MIN	90MIN FIRE RATED DOOR	
107	HALL	C	3'0" x 7'0" x 1 3/4"	HM	--	MTL	4			
108A									NOT USED	
							5		COILING DOOR	
							5		COILING DOOR	
							5		COILING DOOR	
							5		COILING DOOR	

AL/GL = ALUMINUM/GLASS    STL = STEEL  
 MTL = METAL    WD = WOOD

INCLUDE 101, 104, 107

# DOORS AND HARDWARE

- ALL INTERIOR DOORS TO BE FLUSH SOLID CORE WOOD DOORS (BIRCH), PAINT FINISH. FRAMES SHALL BE PAINTED STEEL (WELDED).
- PROVIDE LEVER TYPE COMMERCIAL (ANSI A156.2, 1996, SERIES 4000, GRADE 1) GRADE DOOR HARDWARE (ANSI A117.1 COMPLIANT). OPERATING LEVER ON DOOR SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS ARE ACCEPTABLE DESIGNS.
- ALL EXTERIOR STEEL DOORS & DOORS SHALL BE GALVANIZED, INSULATED (R-7) METAL DOORS w/ GALVANIZED METAL FRAMES. SEE SPECS FOR GAGES & CONSTRUCTION.  
 DOOR: Level 1 - Standard-duty, Model 1, nominal 20 gage/0.032 inch (0.8 mm) face sheets, 1 3/4", full flush design  
 DOOR FRAMES: Level 1 for Door Models 1, nominal 18 gage/0.042 inch (1.0 mm) thick material, base metal thickness.
- COORDINATE ALL KEYING & LOCKSETS WITH TENANT.
- ALL EXTERIOR DOORS & WINDOWS SHALL HAVE CURRENT FLORIDA PRODUCT APPROVALS.

- HARDWARE GROUP 1
- 1 1/2 PR NRP BB HINGES
  - 1 CLOSER
  - 1 LOCKSETS W/ DOOR LEVERS
  - 1 PANIC HARDWARE EXIT DEVICE
  - 3 DOOR SILENCERS
  - 1 DOOR SWEEP
  - 1 ALUMINUM THRESHOLD
  - 1 SET WEATHERSTRIP
  - 1 RAIN DRIP DAP
  - 1 KICKPLATE

- HARDWARE GROUP 2
- 1 OFFICE LOCKSET
  - ANSI F82 KEY OPENS LOCK FROM OUTSIDE, PUSH-BUTTON LOCKING FROM INSIDE.
  - LATCH TURNING INSIDE RETRACTS LOCK
  - 1 1/2 PR BUTT HINGES
  - 3 DOOR SILENCERS
  - 1 WALL STOP

- HARDWARE GROUP 3
- 1 STOREROOM LOCKSET
  - ANSI F86 OUTSIDE LEVER FIXED. KEY ONLY
  - INSIDE ALWAYS UNLOCKED
  - 1 1/2 PR BUTT HINGES
  - 3 DOOR SILENCERS
  - 1 WALL STOP
  - 1 KICKPLATE

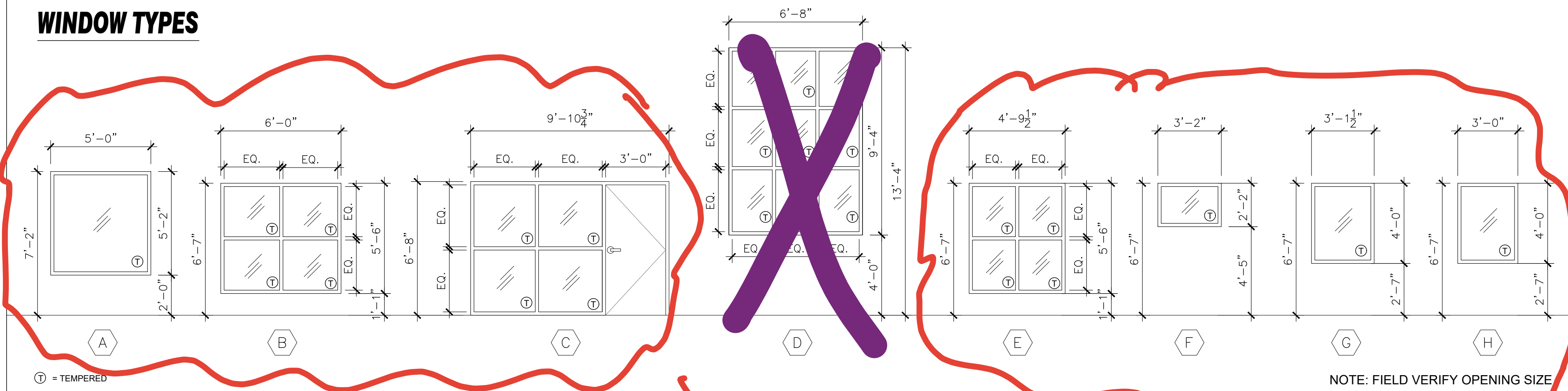
- HARDWARE GROUP 4
- 1 PRIVACY LOCKSET
  - 1 1/2 PR BUTT HINGES
  - 3 DOOR SILENCERS
  - 1 WALL STOP
  - ANSI F76 BED/BATH PRIVACY LOCK: PUSH-BUTTON LOCKING, TURNING
  - INSIDE LEVER RELEASES PUSH-BUTTON.
  - CAN OPEN FROM OUTSIDE VIA EMERGENCY RELEASE
  - 1 MOP PLATE
  - 1 KICK PLATE

- HARDWARE GROUP 5
- (COILING DOOR)
  - INTERIOR SLIDE BOLT FOR LOCK
  - MANUAL CHAIN HOIST
  - HOOD ENCLOSURE (24 GA GALV)
  - NOMINAL 2" SLATS INSULATED R-5 MIN.
  - WEATHERSTRIPPING (MOISTURE AND ROT PROOF) AT JAMBS, HOOD AND BOTTOM
  - GUIDES: GALVANIZED STEEL ANGLES
  - SLATS: MIN 20 GAGE GALV STEEL SLATS

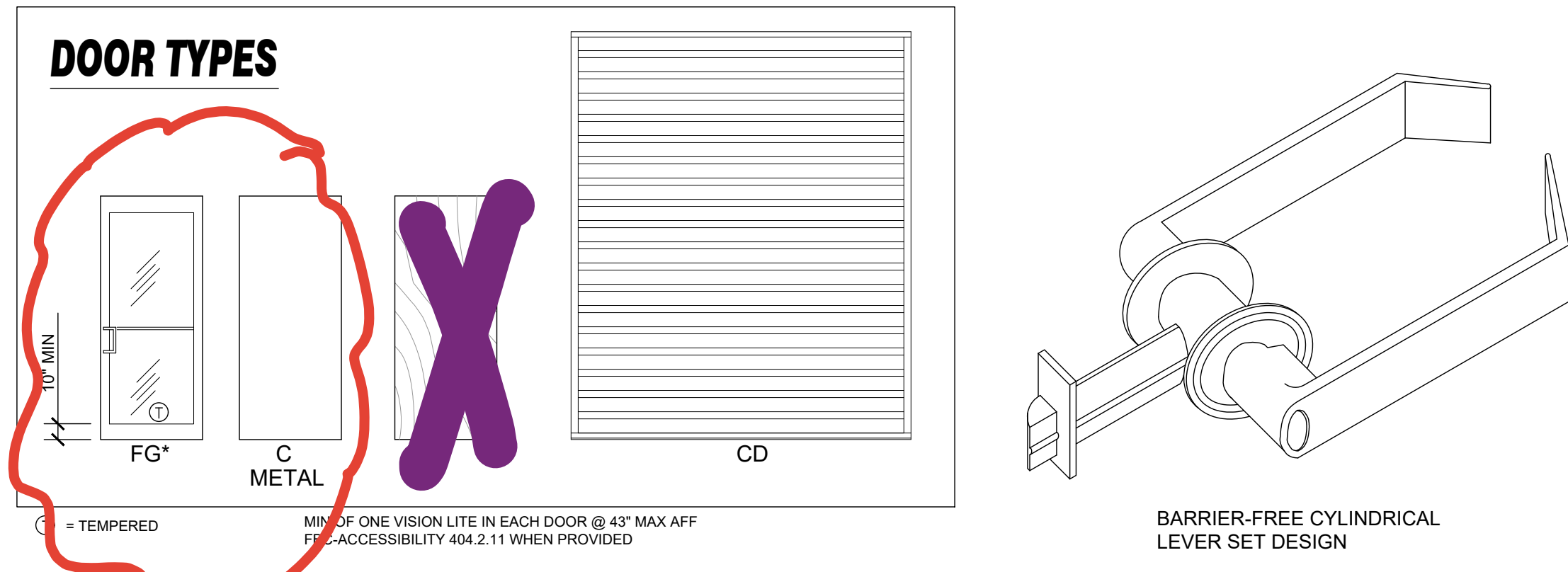
- FIRE RATED DOORS:
- ALL FIRE RATED DOORS SHALL CONFORM TO NFPA 80.
  - ALL FIRE RATED DOORS SHALL BE EQUIPPED WITH LEVER HANDLES THAT ARE ALWAYS UNLOCKED IN THE DIRECTION OF TRAVEL.
  - ALL FIRE RATED DOORS SHALL HAVE ANSI A117.1 & FBC-ACCESSIBILITY CODE COMPLIANT HARDWARE.
  - ALL FIRE RATED DOORS SHALL BE EQUIPPED WITH CLOSERS AND HAVE POSITIVE LATCHING.
  - PROVIDE FIRE RATED FRAMES WITH ALL FIRE RATED DOORS.
  - PROVIDE BALL BEARING HINGES ON ALL FIRE RATED DOORS.
  - PROVIDE TEMPERATURE RISE RATINGS (AVERAGE TEMP RISE DEVELOPED ON THE UNEXPOSED SIDE SHALL NOT EXCEED 450°F (232°C) AT THE END OF 30 MINUTES OF FIRE TEST EXPOSURE) ON ALL FIRE RATED DOORS.

EXCLUDE

## WINDOW TYPES



## DOOR TYPES



INCLUDE

## STOREFRONT SYSTEM:

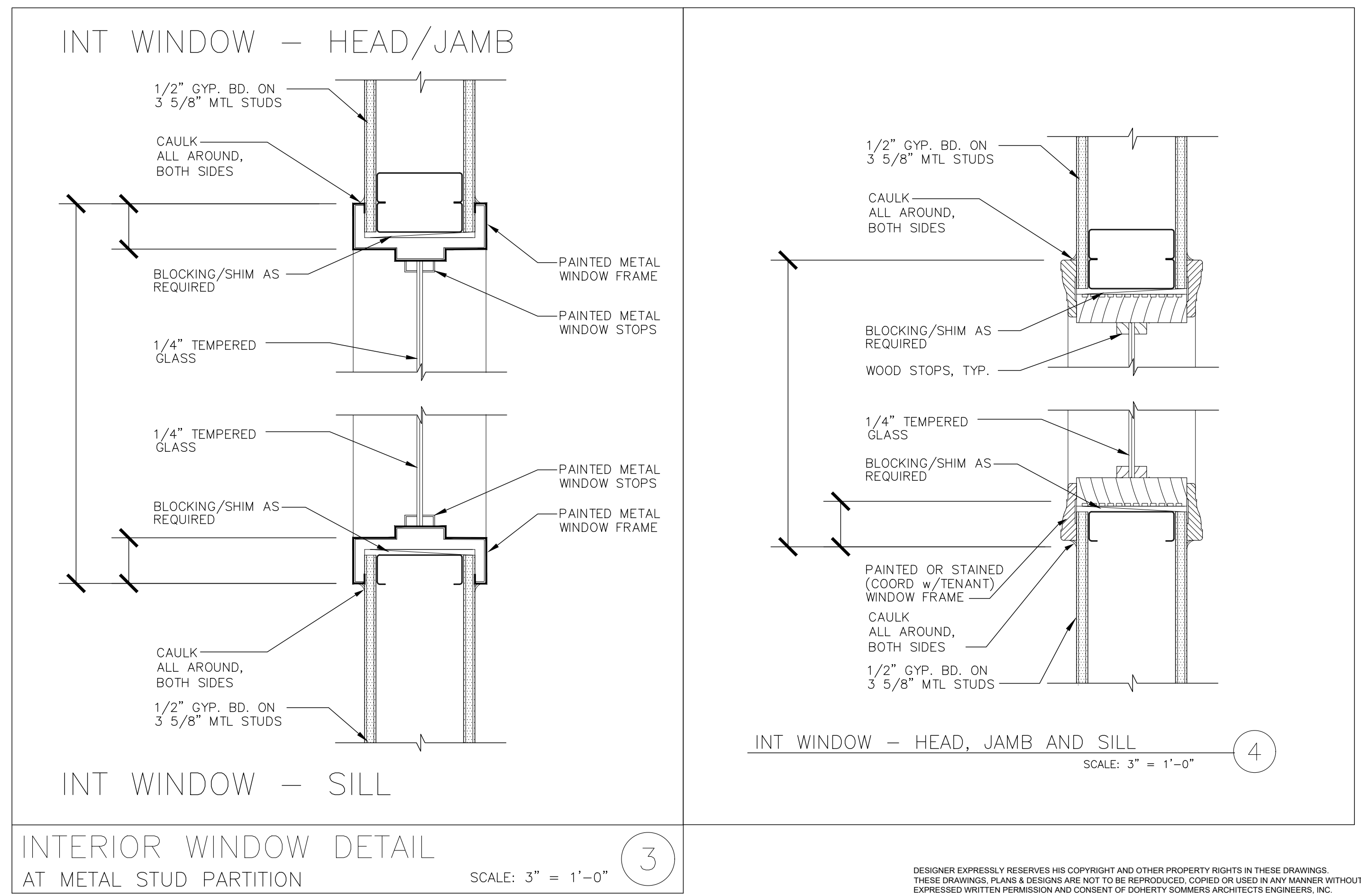
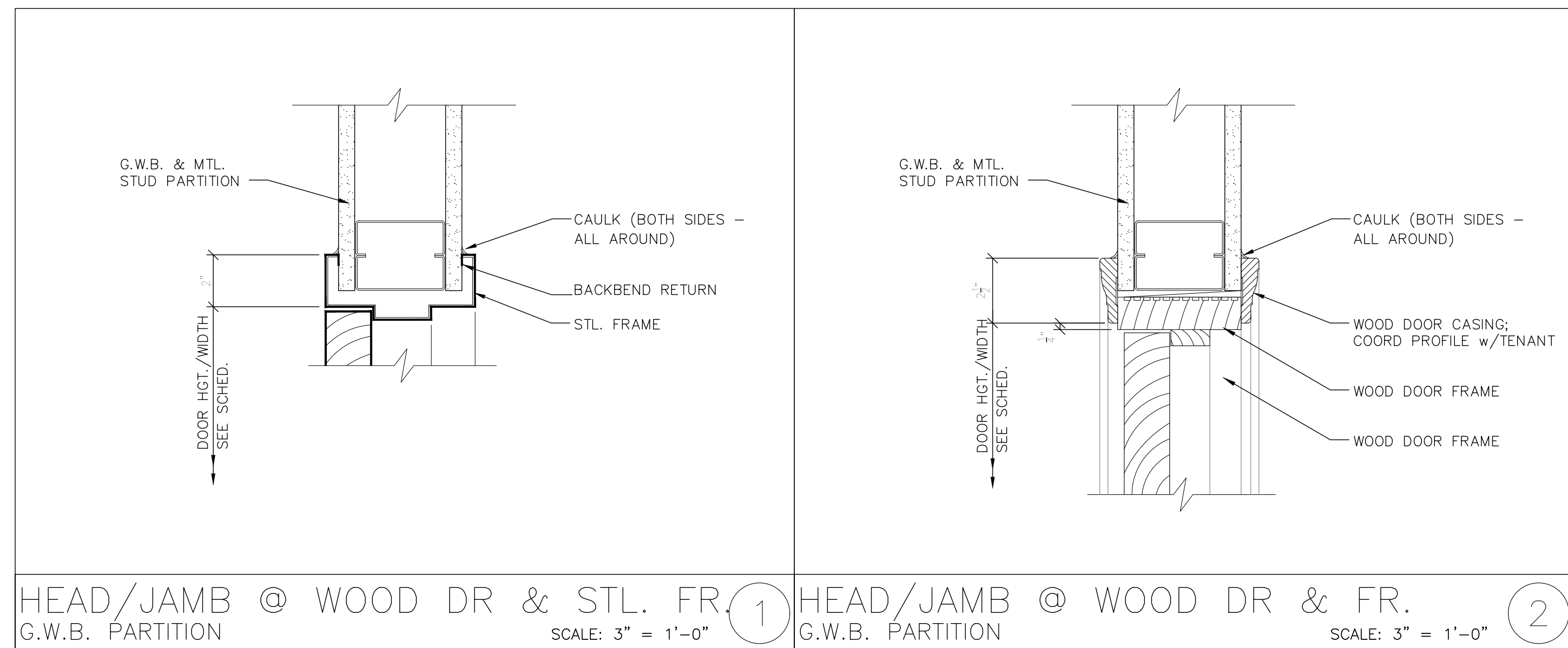
ANODIZED ALUMINUM FRAME

AIR INFILTRATION: 0.01 CFM/FT<sup>2</sup> WHEN TESTED IN ACCORDANCE WITH ASTM E 283-91 AT A DIFFERENTIAL STATIC PRESSURE OF 6.24 PSF.  
 WATER INFILTRATION: 20 PSF WHEN TESTED IN ACCORDANCE WITH ASTM E 331-93 AT A STATIC PRESSURE OF 20 PSF.  
 DEFLECTION: L/175 OR 3/4" MAX. WHEN TESTED IN ACCORDANCE WITH ASTM E 330-90 WITH ALLOWABLE STRESS IN ACCORDANCE WITH AA SPECIFICATIONS FOR ALUMINUM STRUCTURES

GLAZING: TEMPERED AS NOTED  
 (EXTERIOR GLASS EQUAL TO PPG SOLARBLUE WITH LOW E: SOLARBAN 90(2) SOLARBLUE + CLEAR) - ASTM E773/E774  
 COMPLY WITH WIND PRESSURE LOADS LISTED ON STRUCTURAL DRAWINGS FOR POSITIVE AND NEGATIVE PRESSURE.  
 "U" VALUE = .45 (MAX)  
 VISIBLE LIGHT TRANSMITTANCE = .47 (MAX)  
 SHADING COEFFICIENT = .58 (MAX)  
 SOLAR HEAT GAIN COEFFICIENT = .25 (MAX)

FRAME FINISH: VERIFY FRAME FINISH WITH OWNER  
 PROVIDE ALUMINUM SILL PAN WITH END DAMS, FINISH TO MATCH FRAMES.  
 PROVIDE WEATHERSTRIPPING AND SEALANT AND BACKER ROD ON BOTH SIDES OF THE WINDOW, ALL AROUND.  
 HARDWARE: CYLINDER LOCK WITH THUMBTURN, MANUFACTURER'S STANDARD PUSH/ADA ACCESSIBLE PULL BARS AND HINGES, CLOSERS, SILL IN A BED OF SEALANT UNDER DOORS. FIELD VERIFY ALL WINDOW OPENINGS PRIOR TO FABRICATION

INCLUDE



CRAIG A. SOMMERS, AIA  
 FL ARCHITECT - AR0016480

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ADDITION AND REMODEL

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 JACKSONVILLE, FLORIDA 32211

SHEET TITLE: DOOR & WINDOW SCHEDULE

NO.	DATE	REVISION

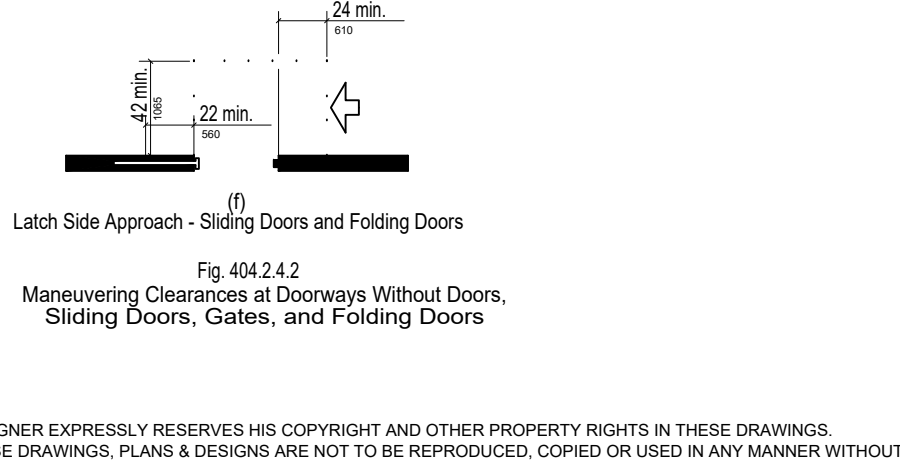
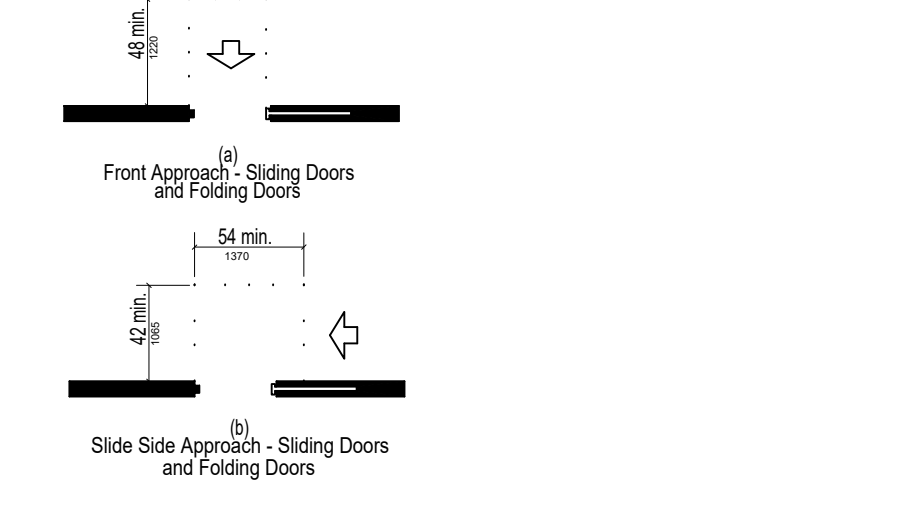
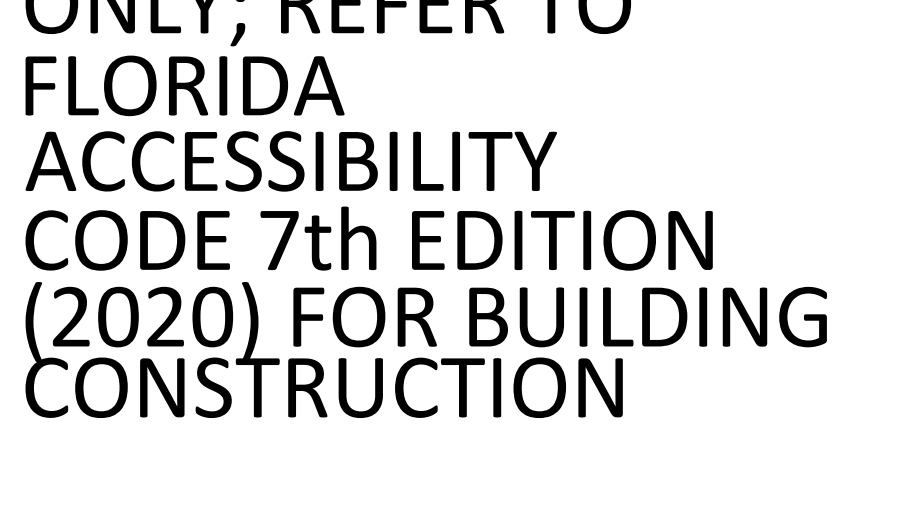
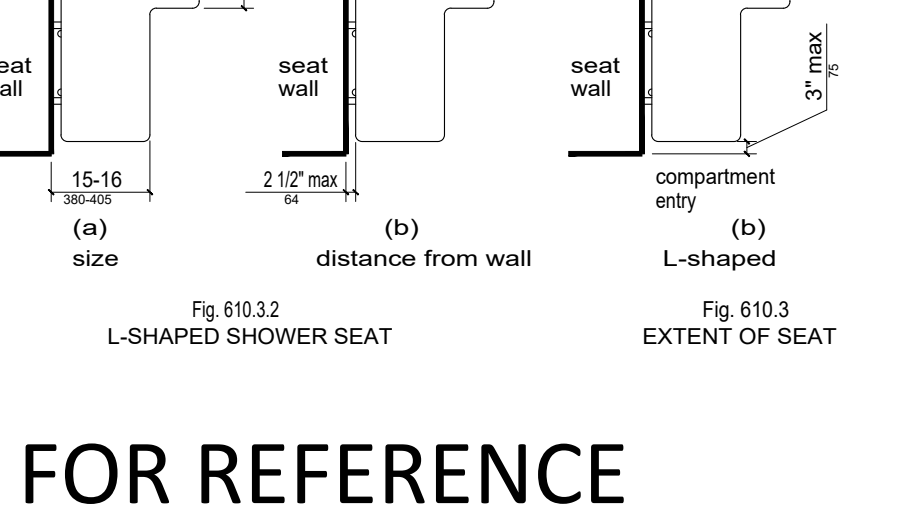
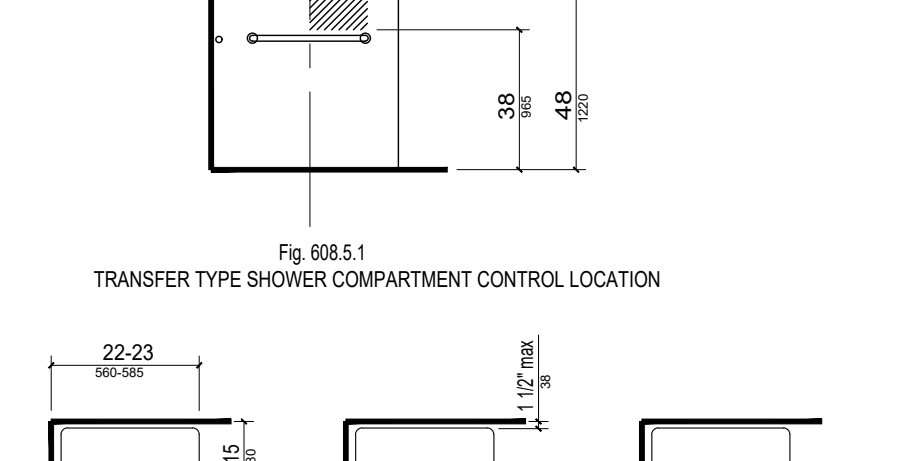
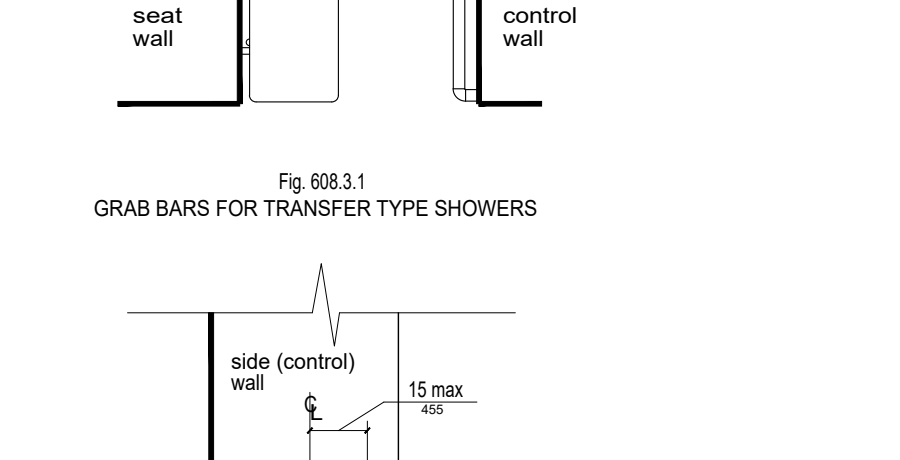
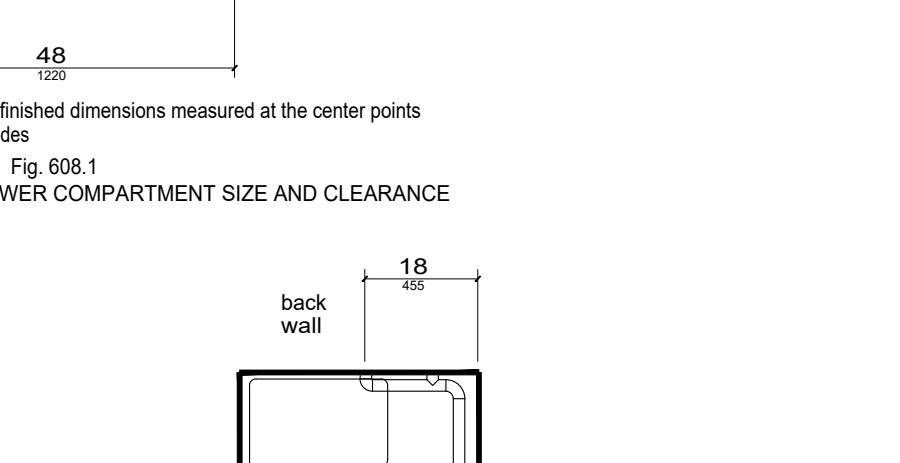
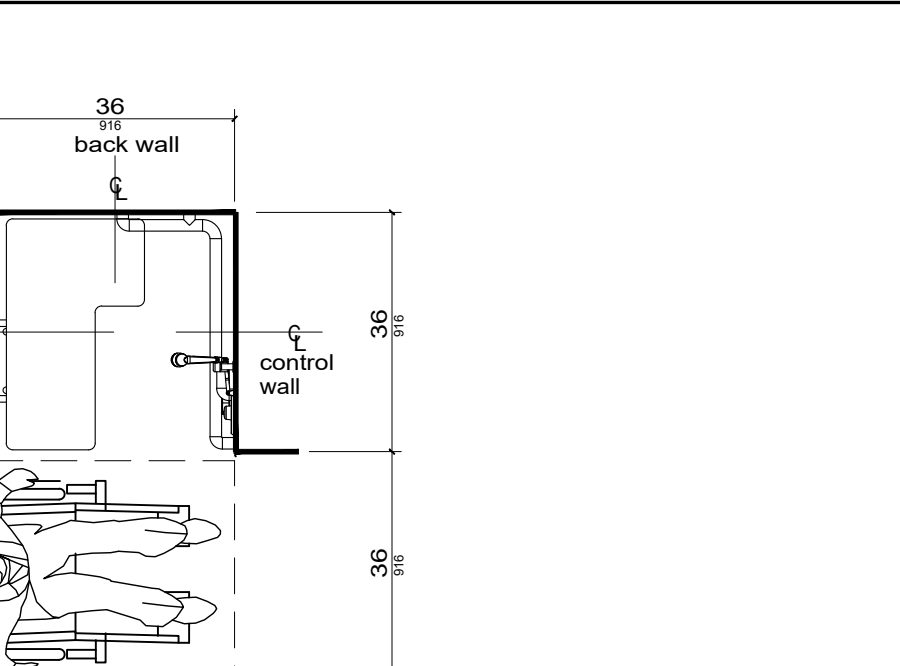
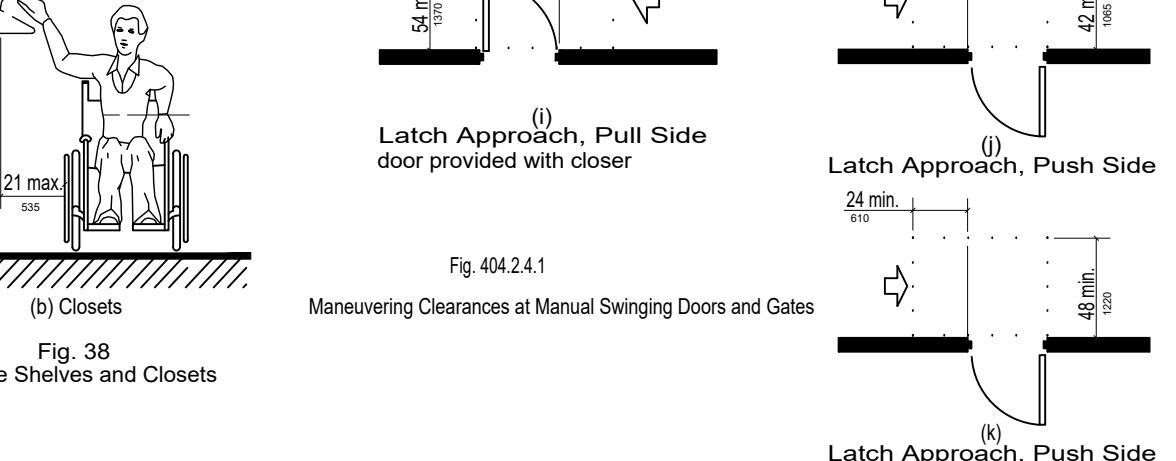
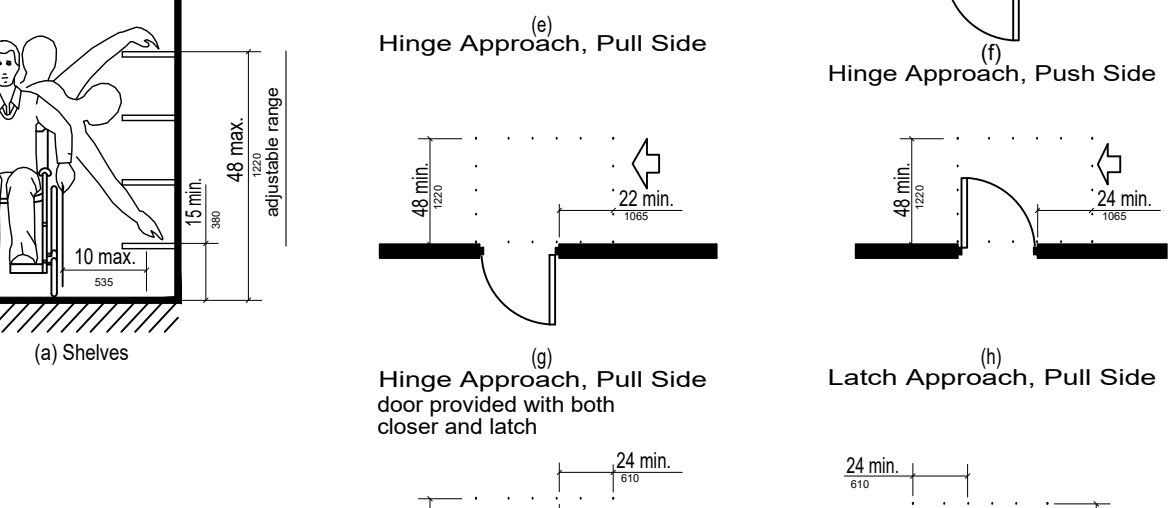
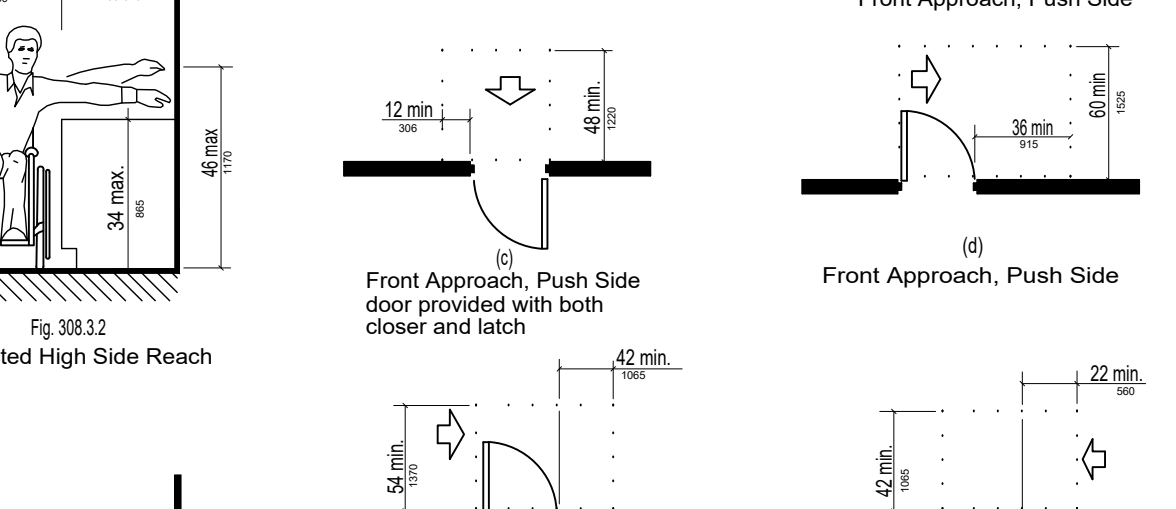
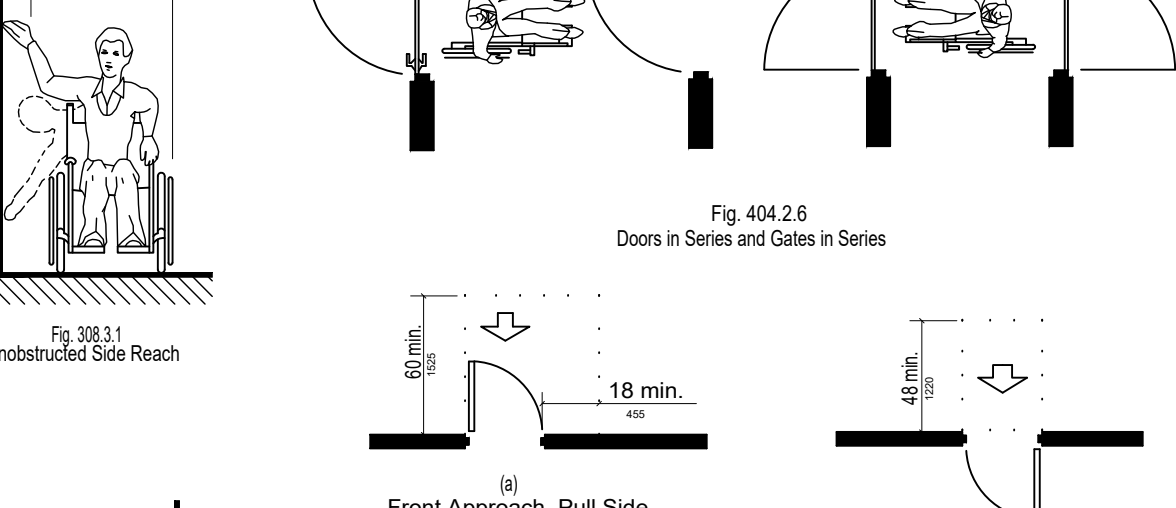
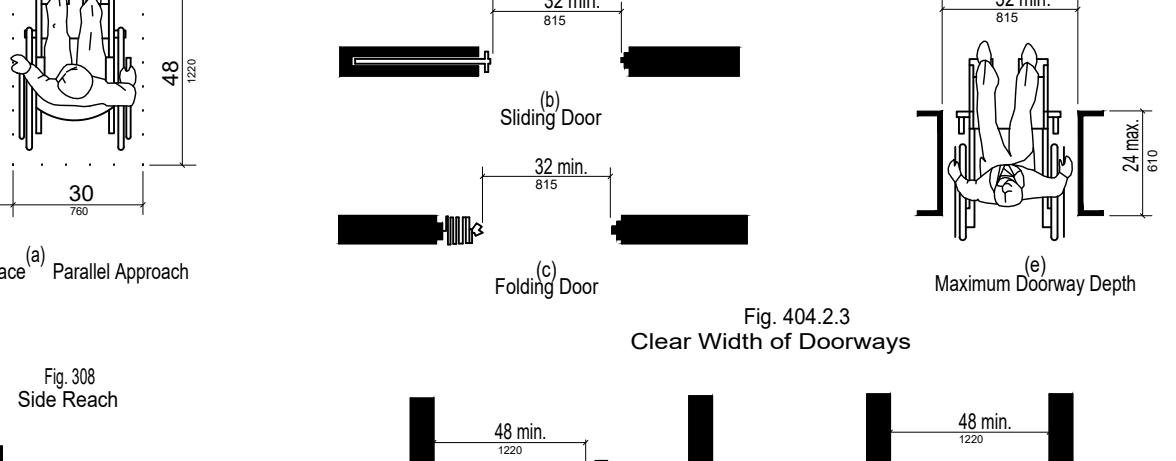
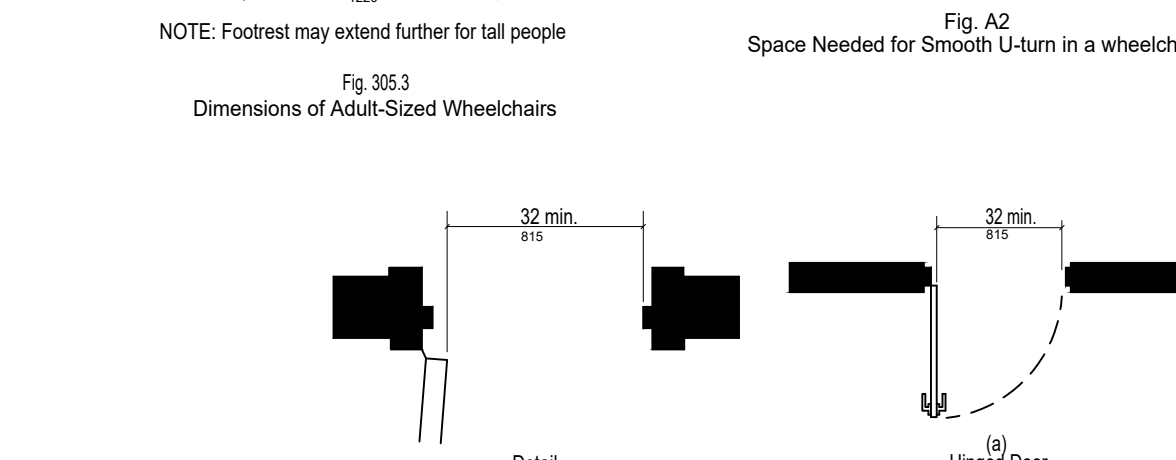
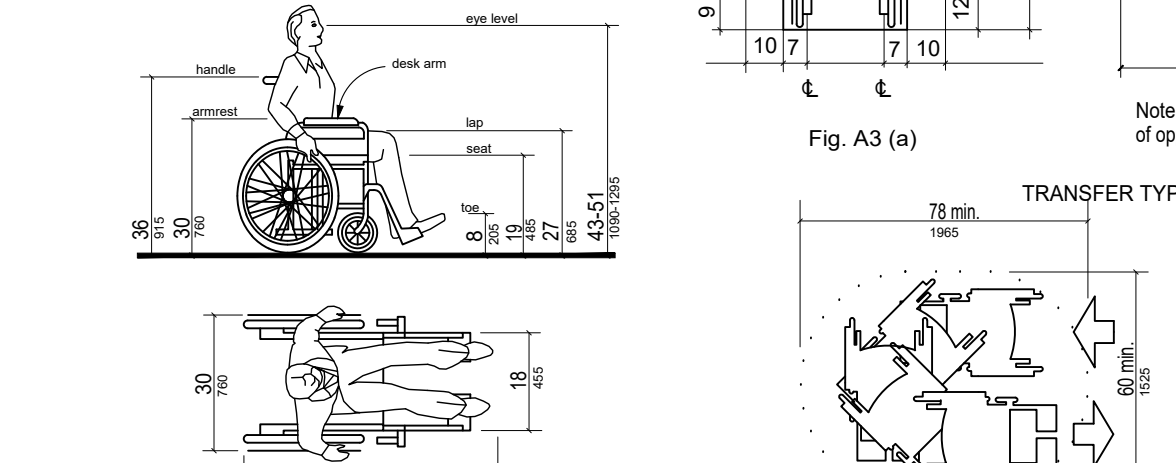
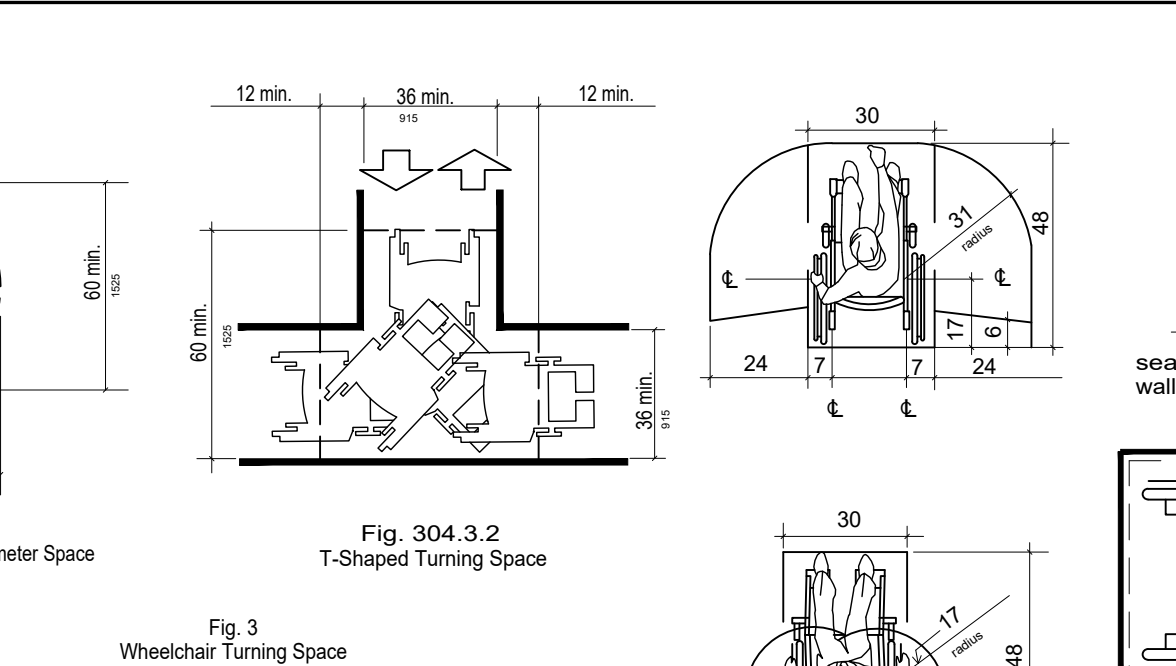
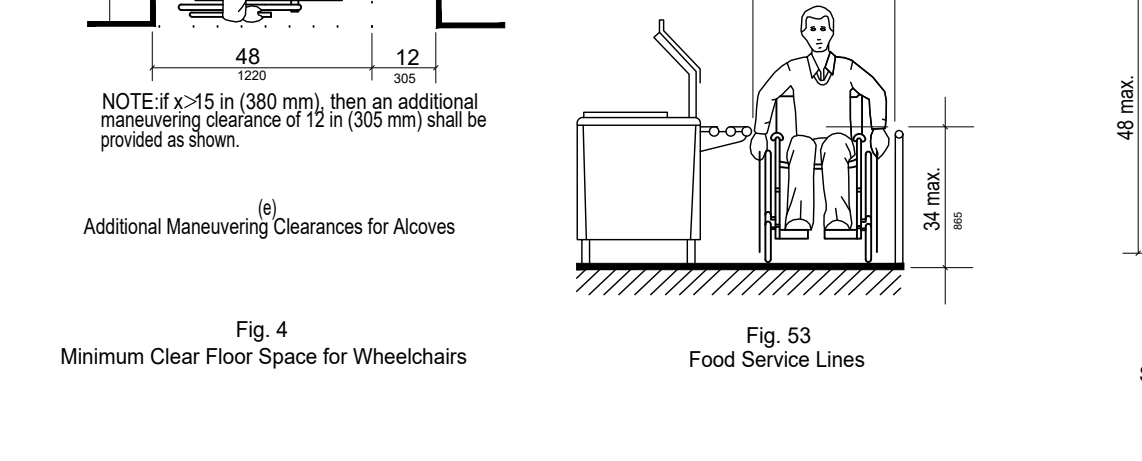
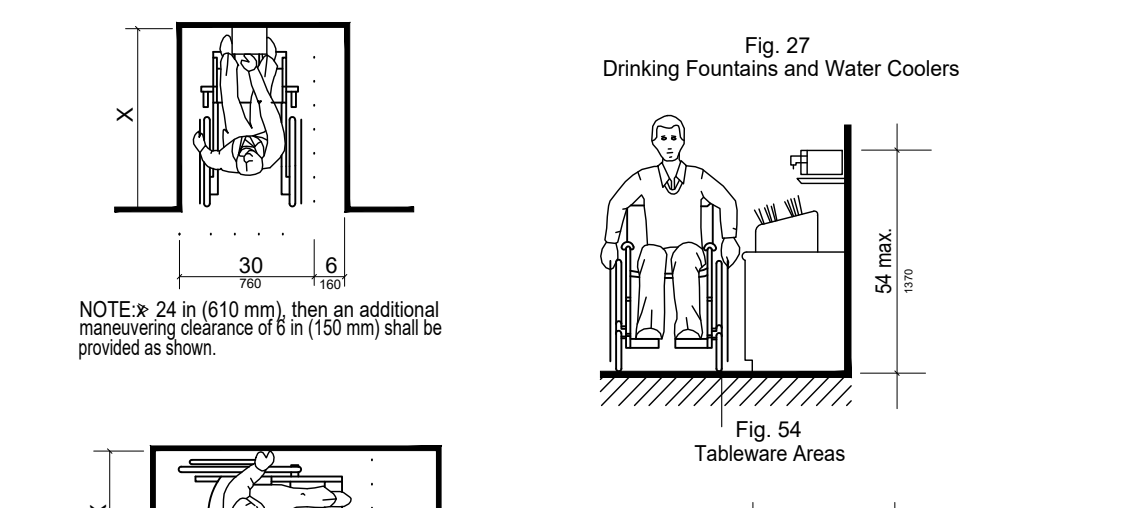
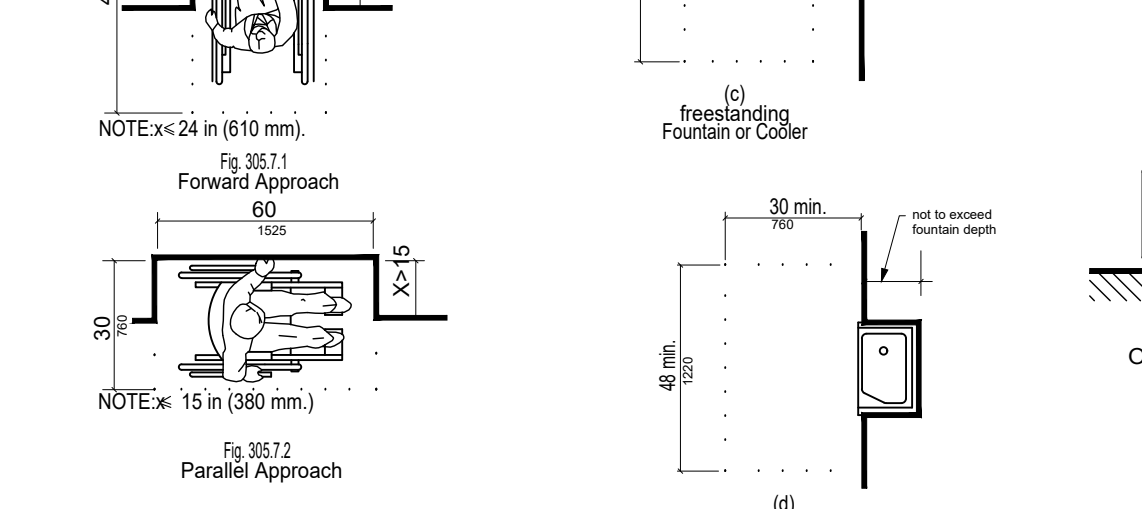
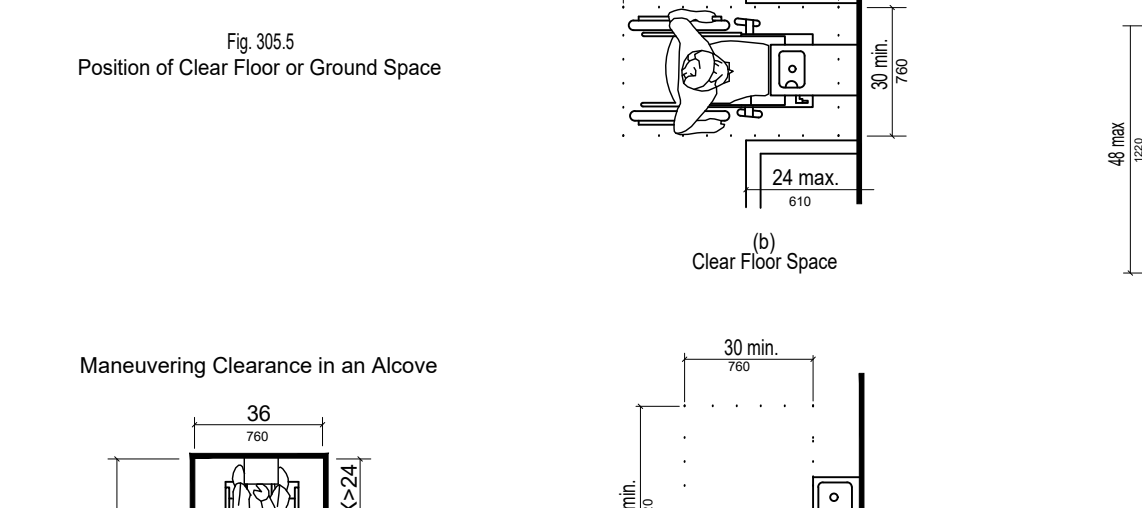
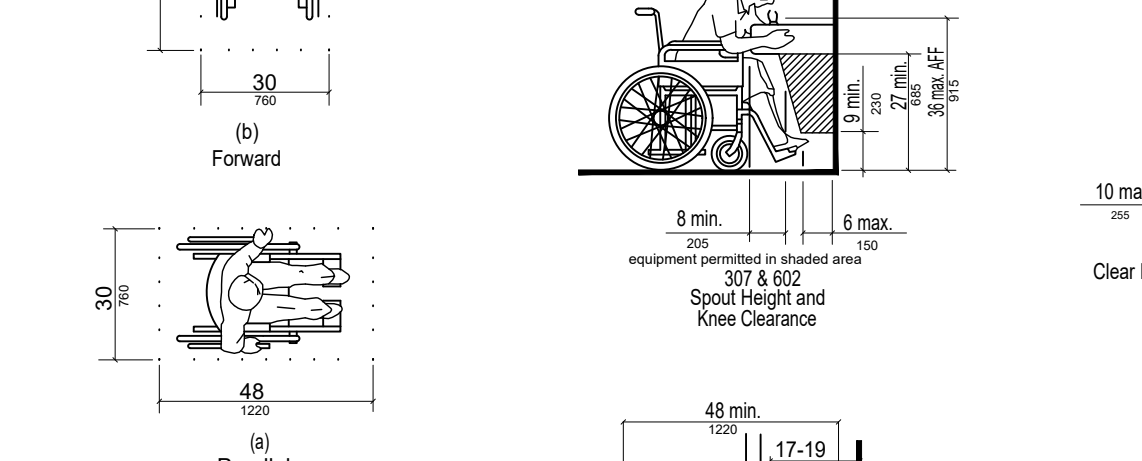
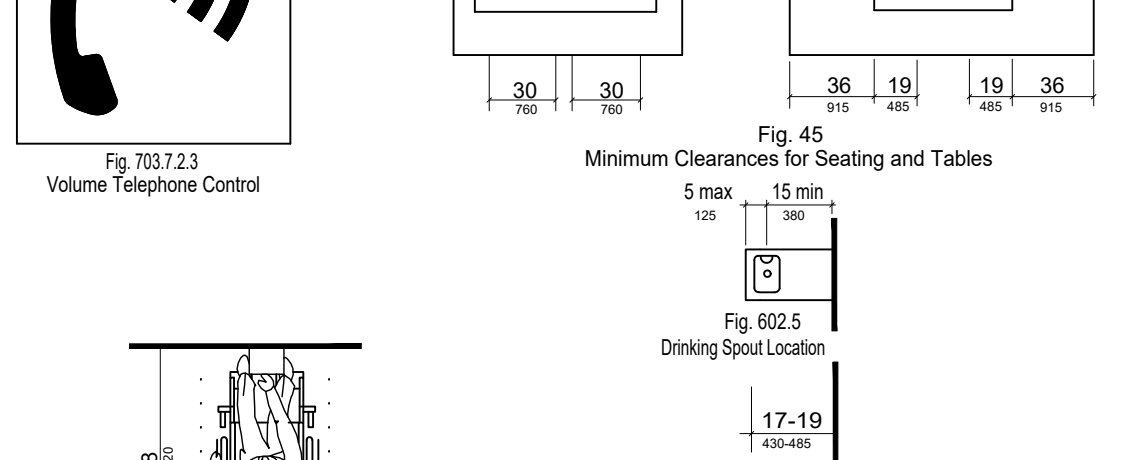
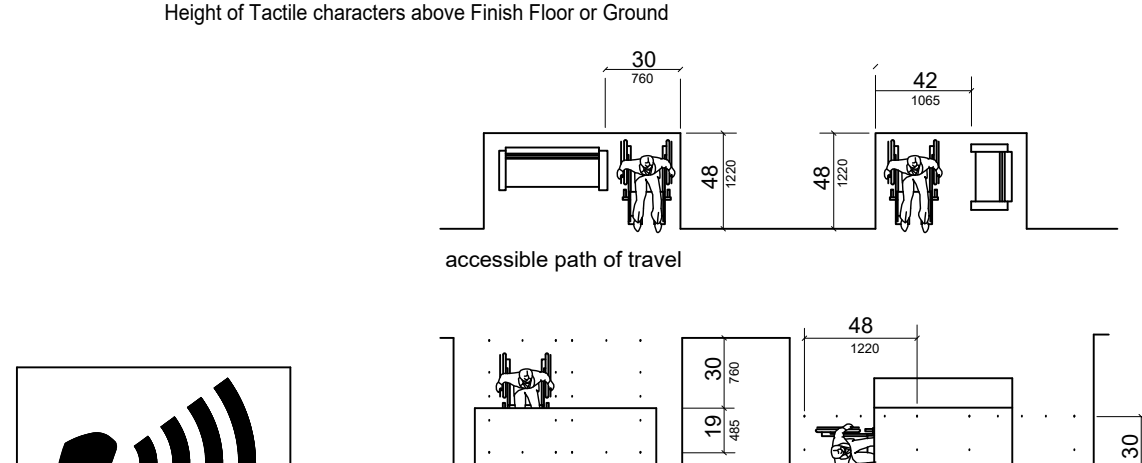
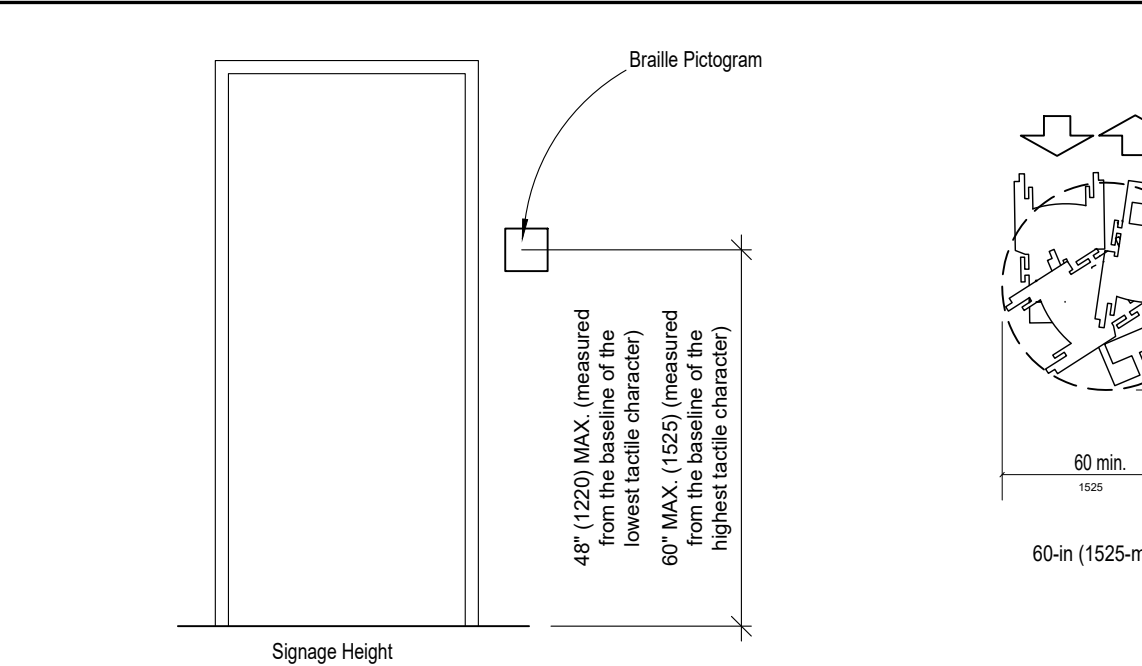
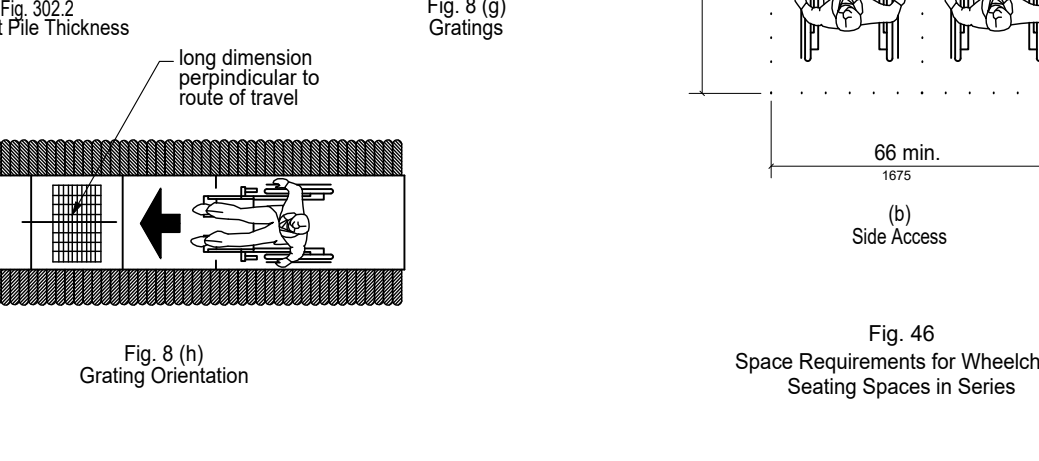
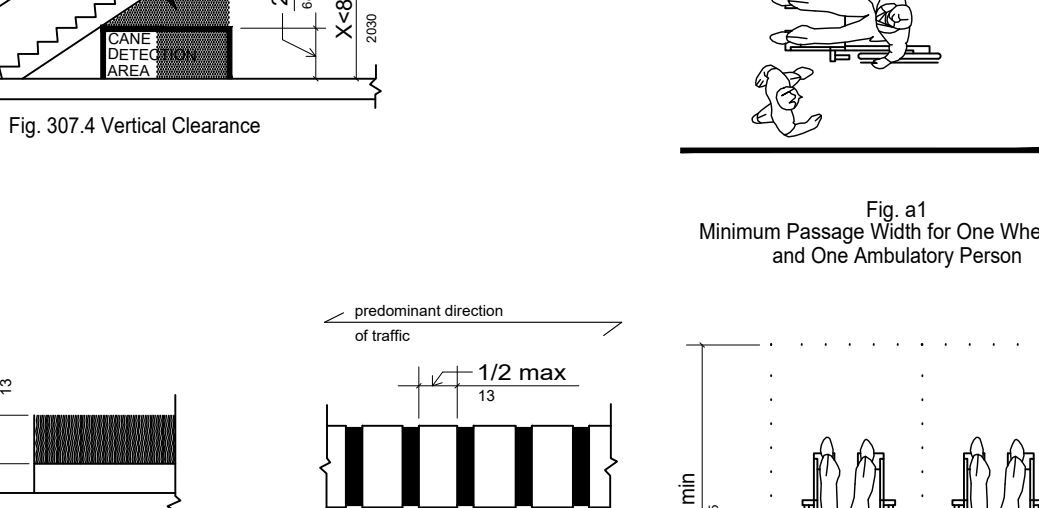
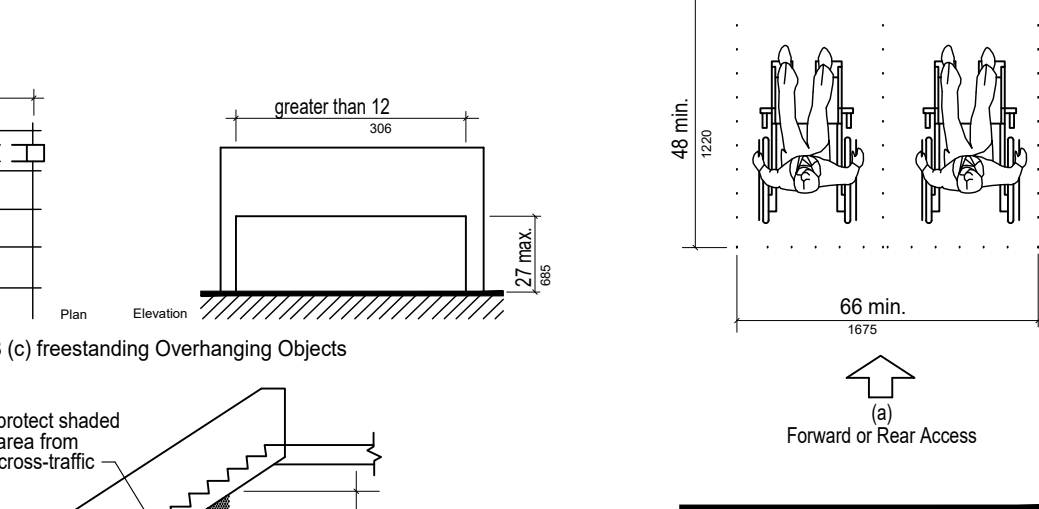
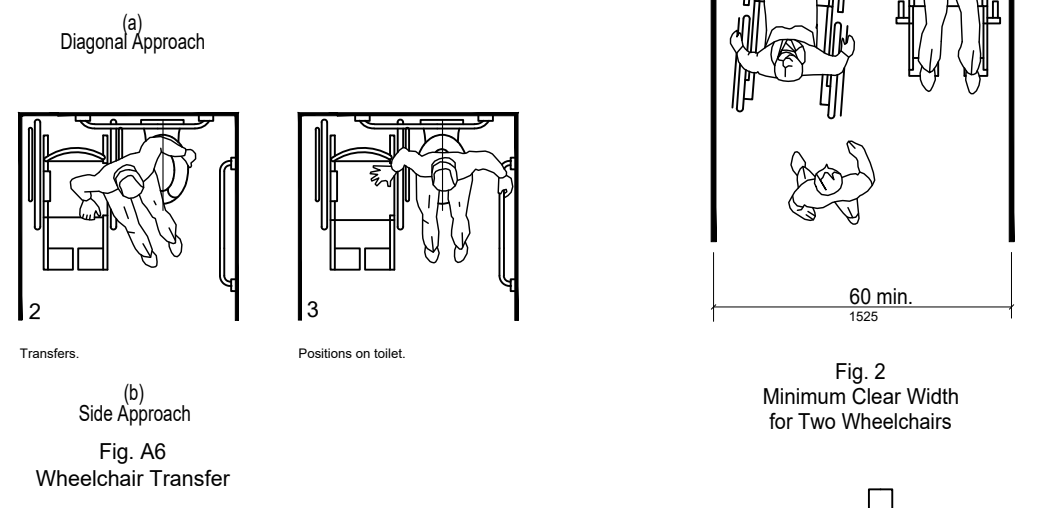
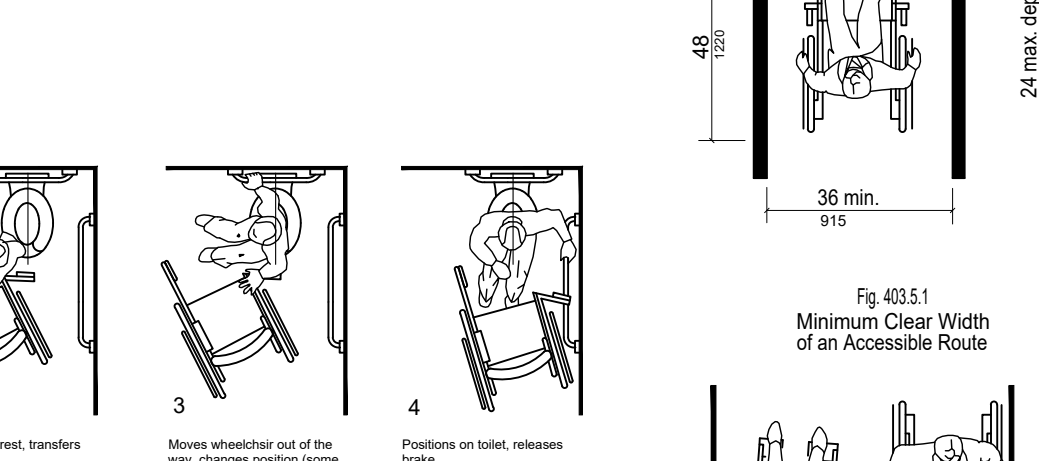
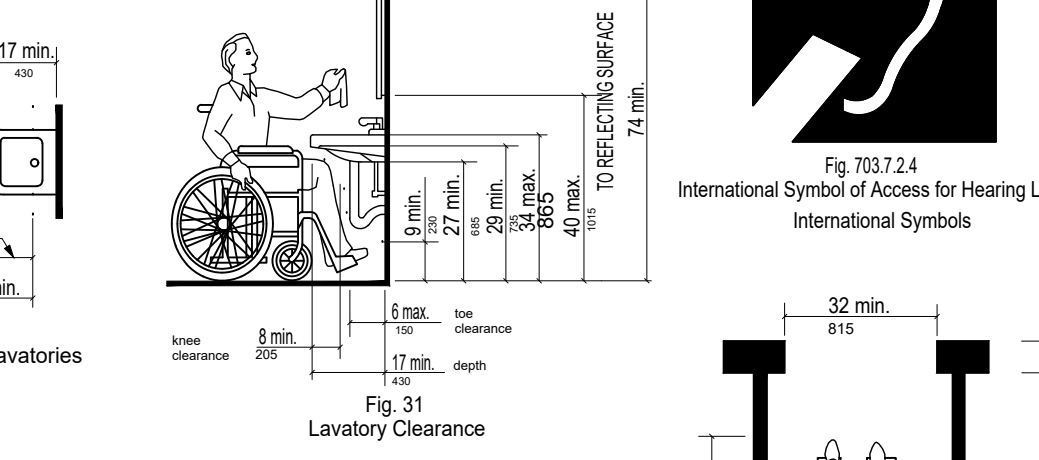
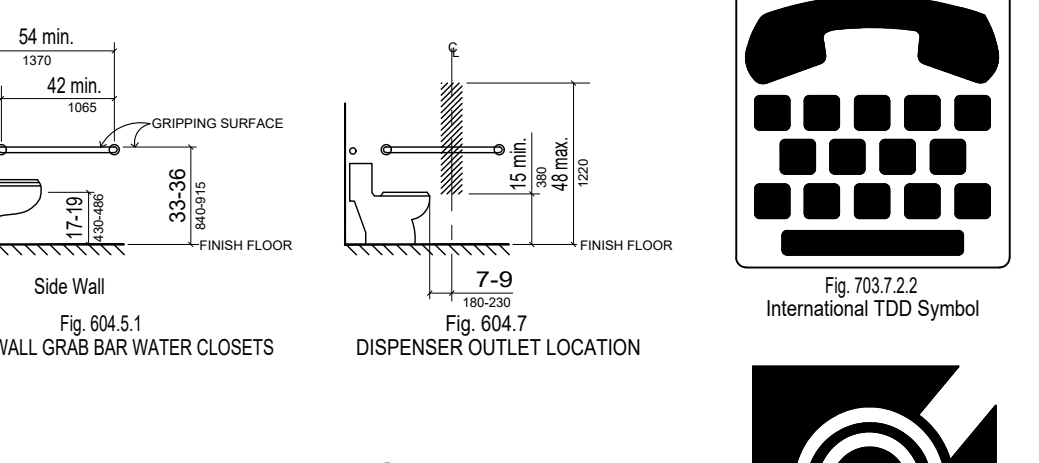
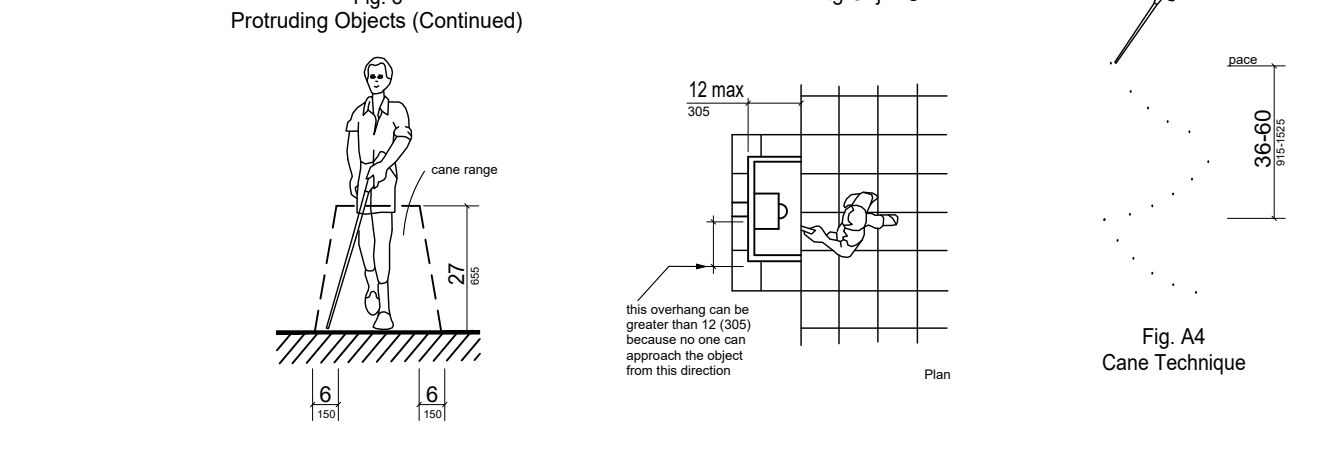
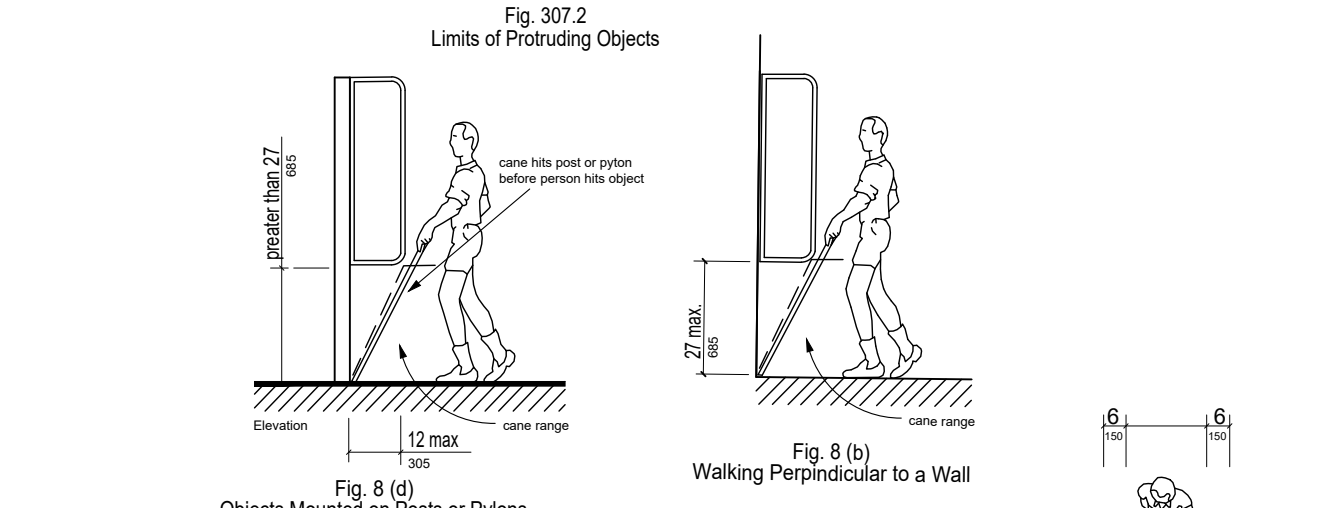
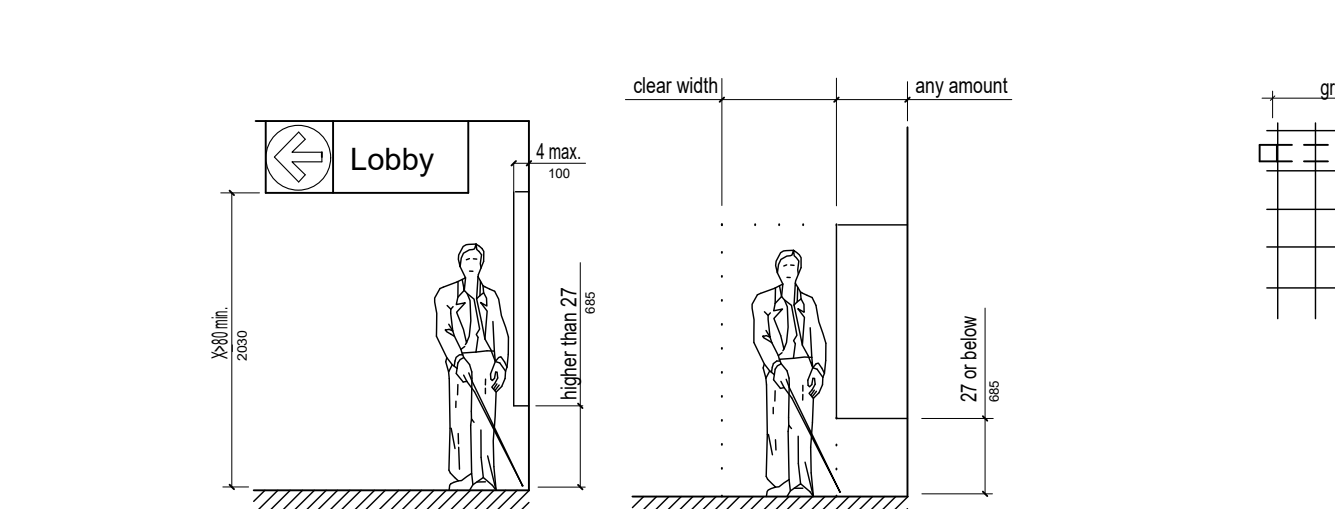
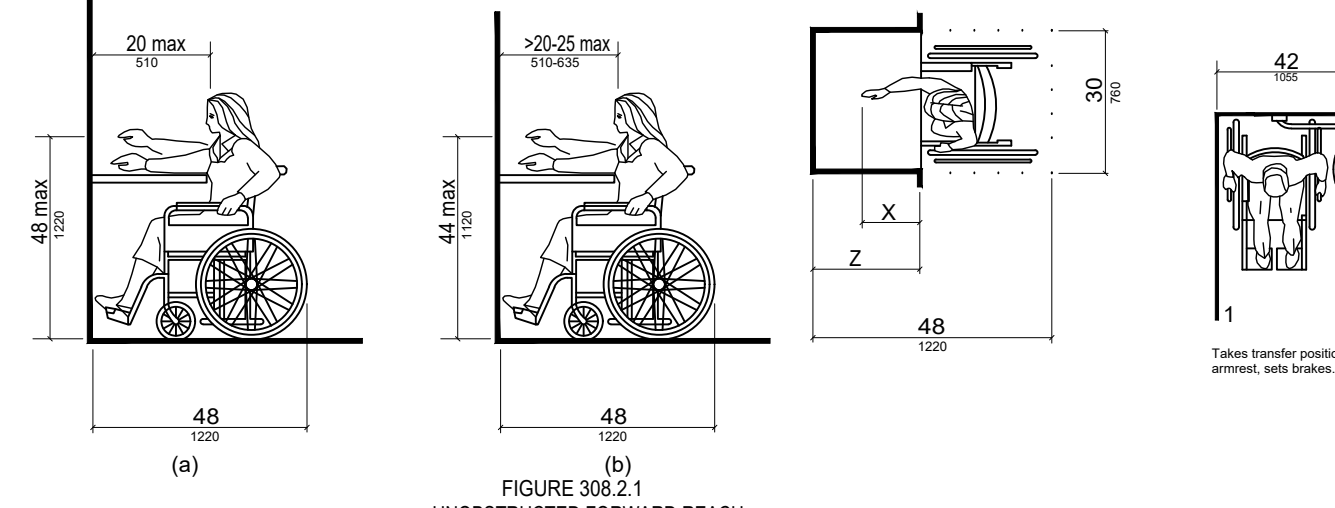
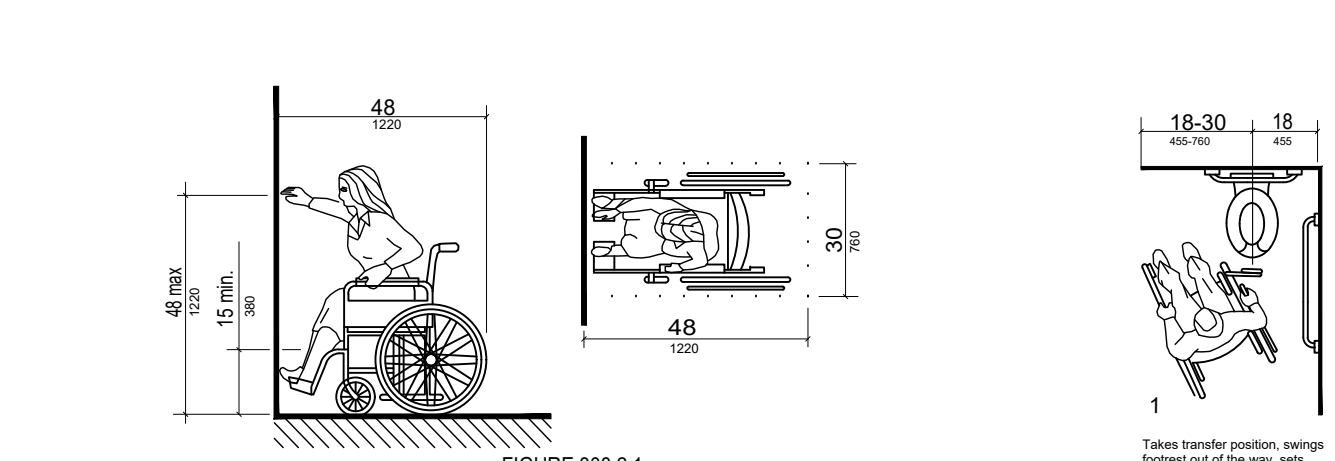
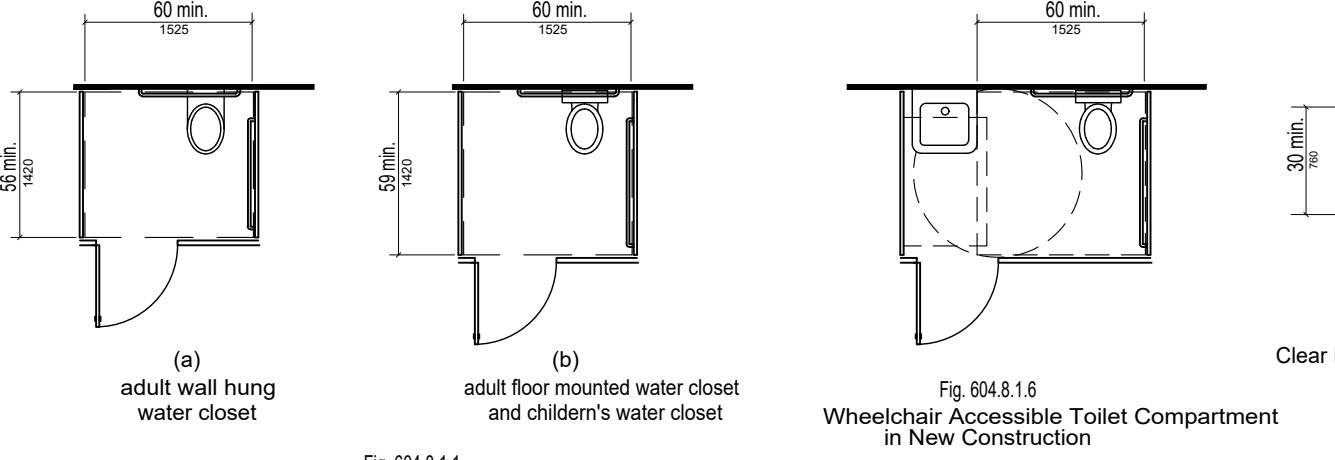
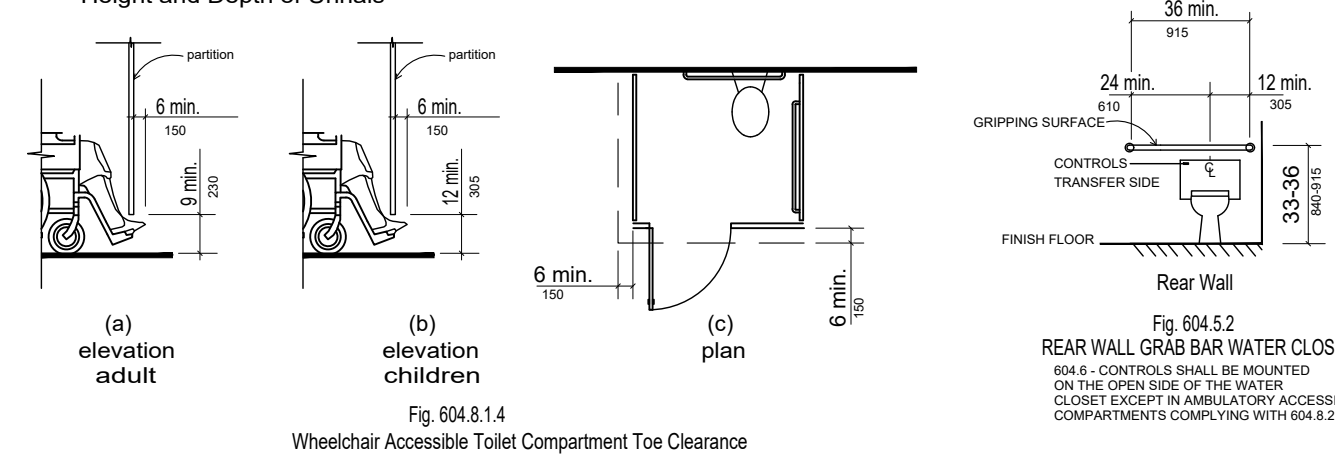
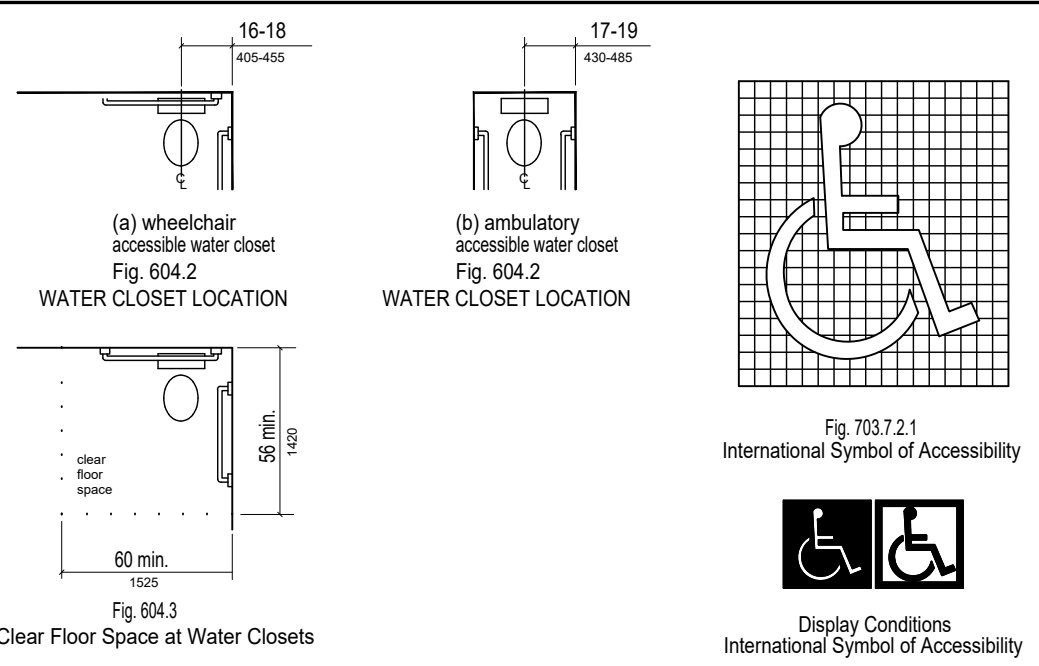
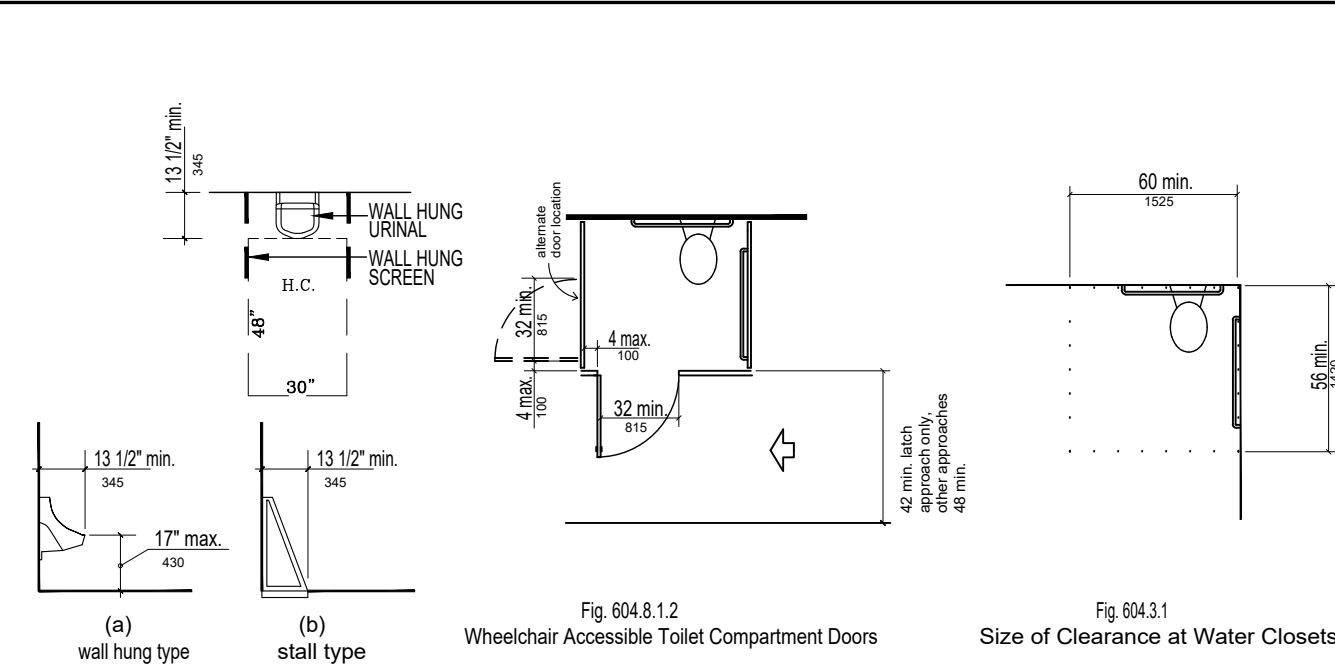
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 CHECKED BY: CAS  
 DATE: 03-16-23

SHEET

**A-4.1**

OPTION 2

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CRAIG A. SOMMERS, AIA  
FL ARCHITECT - AR0016480

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
Florida License No.: AA26000952

ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: ACCESSIBILITY GUIDELINES	NO.	DATE	REVISION

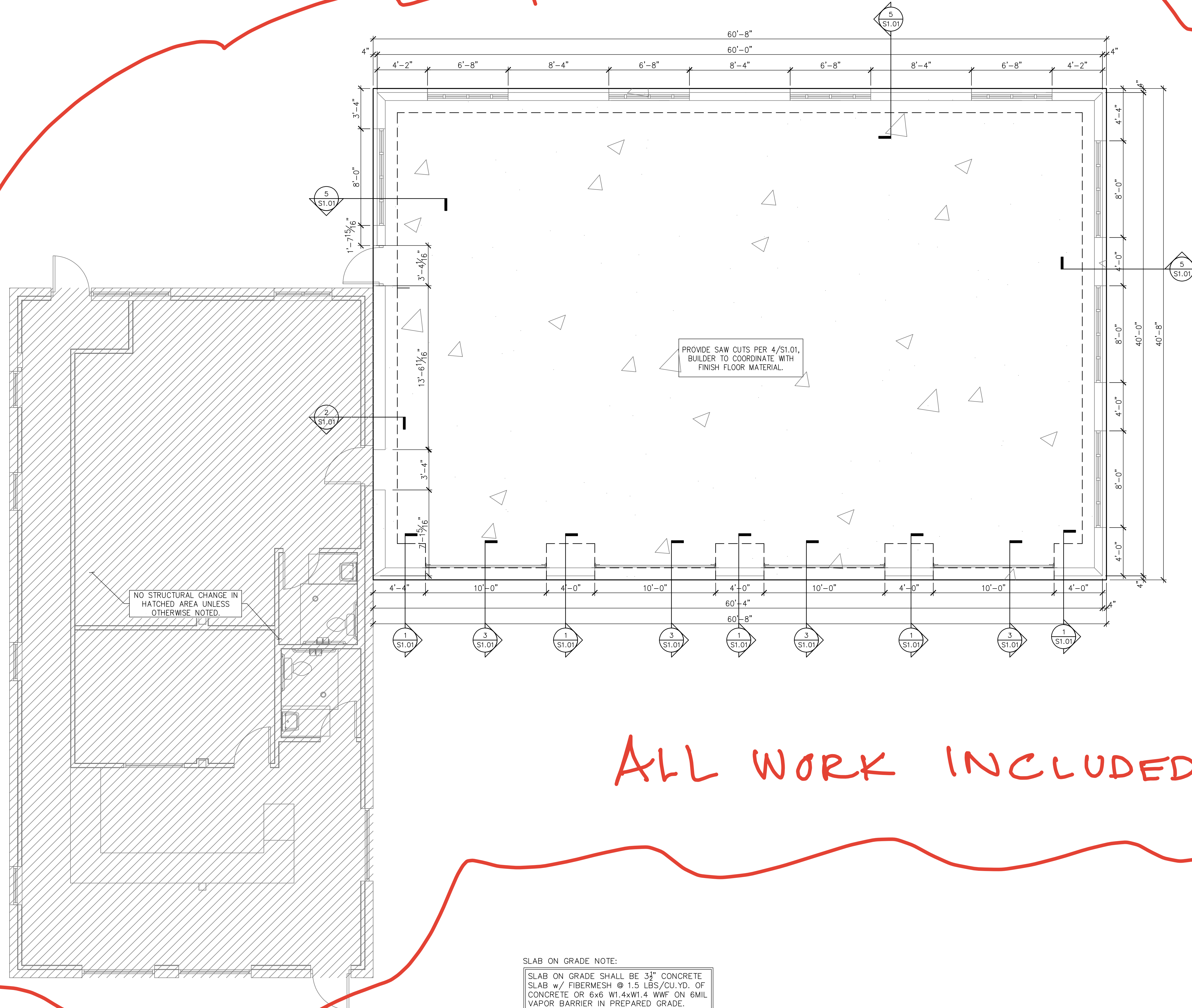
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DATE: 03-16-23

SHEET  
**A-5**  
**OPTION 2**

**FOR REFERENCE ONLY; REFER TO FLORIDA ACCESSIBILITY CODE 7th EDITION (2020) FOR BUILDING CONSTRUCTION**



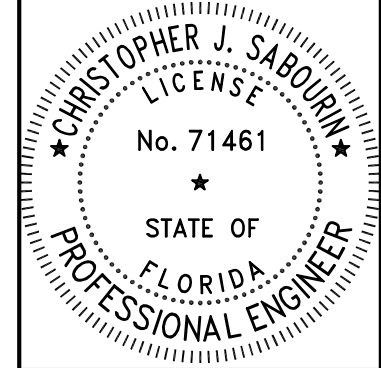




SYMBOLS LEGEND	
---	DESIGNATES FOOTING LINE
---	DESIGNATES SAWCUT LINE
▨	STEMWALL FOOTING
▨	DESIGNATES SLAB RECESS

FOUNDATION NOTES:

1. THIS FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION RELATED TO THE FOUNDATION, FOR GENERAL FEATURES, DIMENSIONS, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC. SEE ARCH PLAN, ARCH PLAN SHOWN HEREIN FOR REFERENCE ONLY.
2. FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES.
3. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN OF 95% PROCTOR IN ACCORDANCE WITH ASTM D 1557.
4. PROVIDE MIN 3" CLEAR COVER BETWEEN SOIL AND FOOTING REINFORCING.



04.24.23  
Christopher J. Sabourin  
FL PE #71461

**SABO**  
STRUCTURAL  
ENGINEERING  
CA#32529  
235 9TH AVE N  
JAX BEACH, FL 32250  
904-712-5750  
CHRIS@SABOENG.COM

PLAN NAME  
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SSE No.  
23-0203

ISSUE	DATE
PERMIT	04.24.23
REVISIONS	DATE

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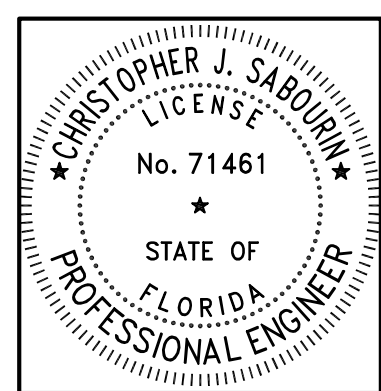
**FIELD ALTERATION**  
CONTRACTOR SHALL CONTACT SABO STRUCTURAL ENGINEERING PRIOR TO MAKING ANY STRUCTURAL FIELD MODIFICATIONS WHICH MAY VARY FROM THE INTENT OF THE ORIGINAL CONSTRUCTION DOCUMENTS. ANY FIELD ALTERATIONS MADE PRIOR TO BEING APPROVED BY CHRISTOPHER SABOURIN MAY RESULT IN ADDITIONAL ENGINEERING OR INSPECTION FEES.

**SCALING**  
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

SLAB ON GRADE NOTE:  
SLAB ON GRADE SHALL BE 3½" CONCRETE SLAB w/ FIBERMESH @ 1.5 LBS/CU.YD. OF CONCRETE OR 6x6 W1.4xW1.4 WWF ON 6MIL VAPOR BARRIER IN PREPARED GRADE.

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

FOUNDATION  
PLAN  
**OPTION 2**  
SHEET  
S1.0  
SHEET 3 OF 11



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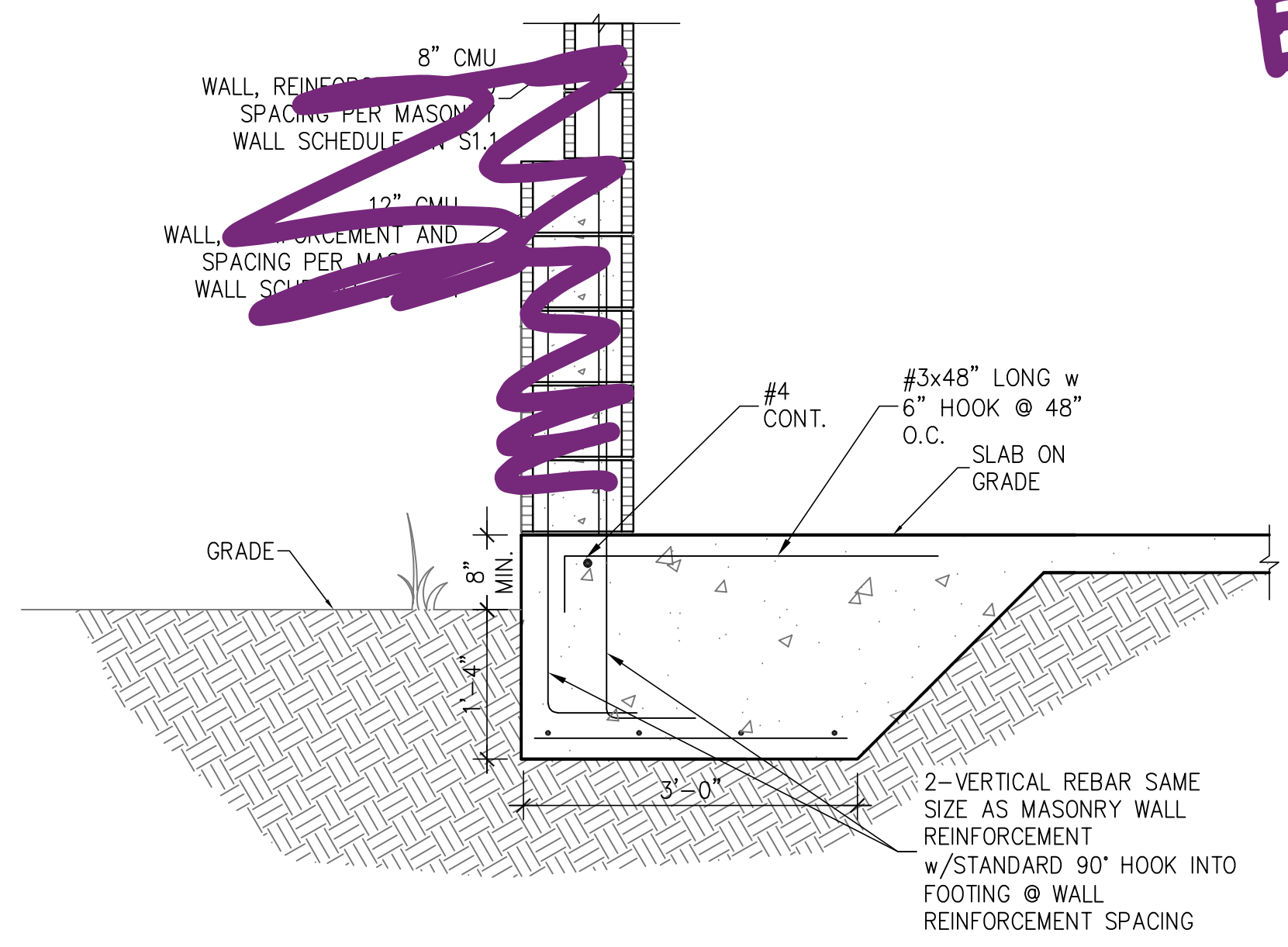
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FOUNDATION  
DETAILS

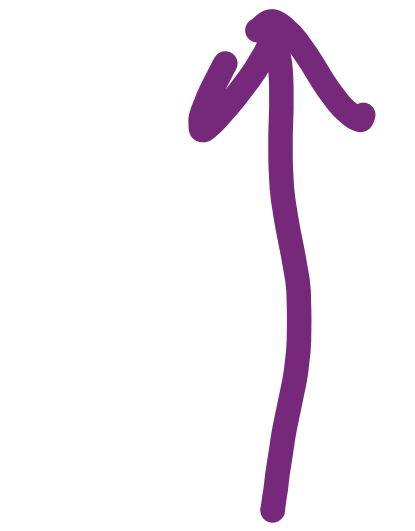
**OPTION 2**

SHEET  
**S1.01**  
SHEET 4 OF 11

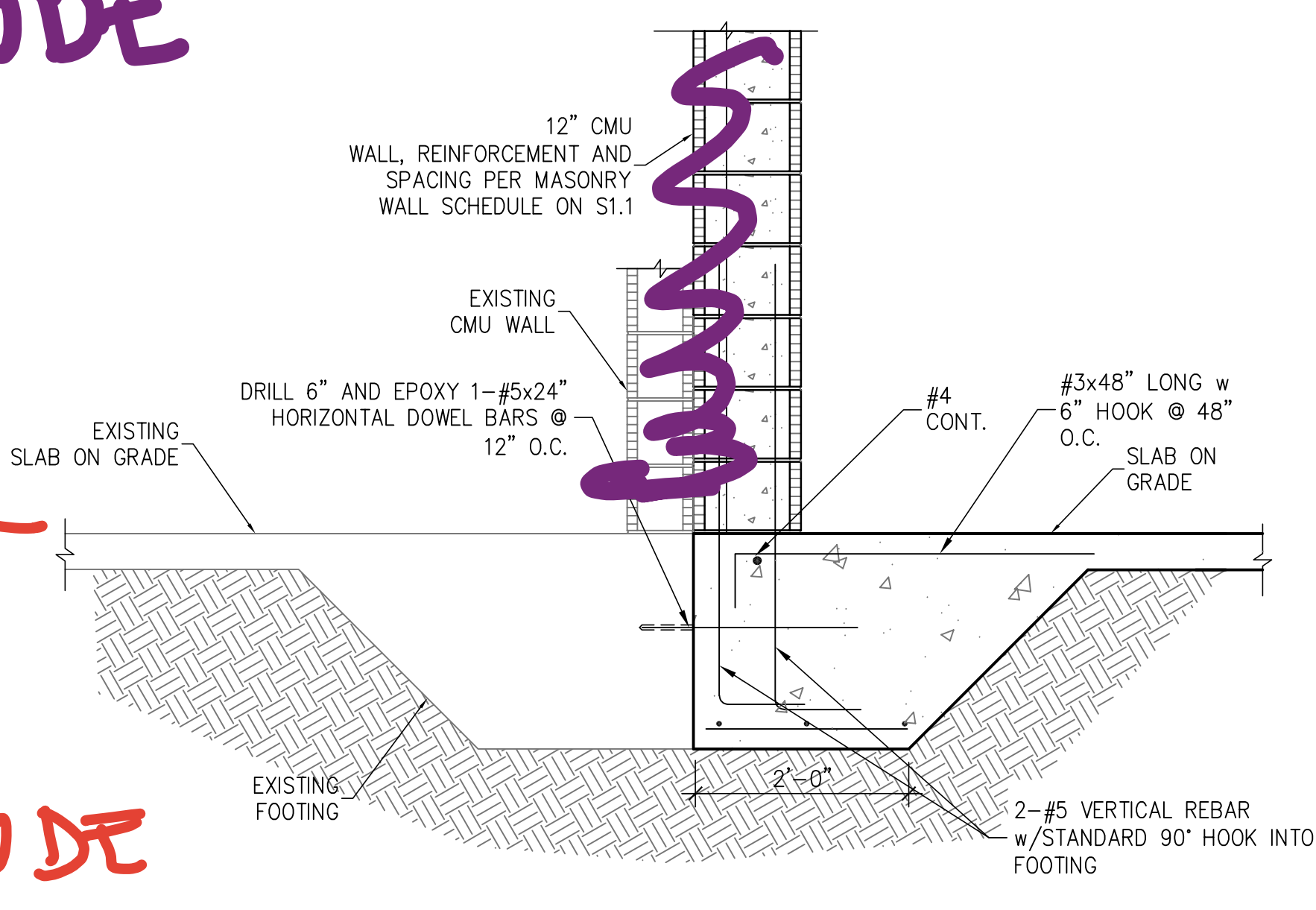


1 MONOLITHIC EDGE FOOTING  
S1.01

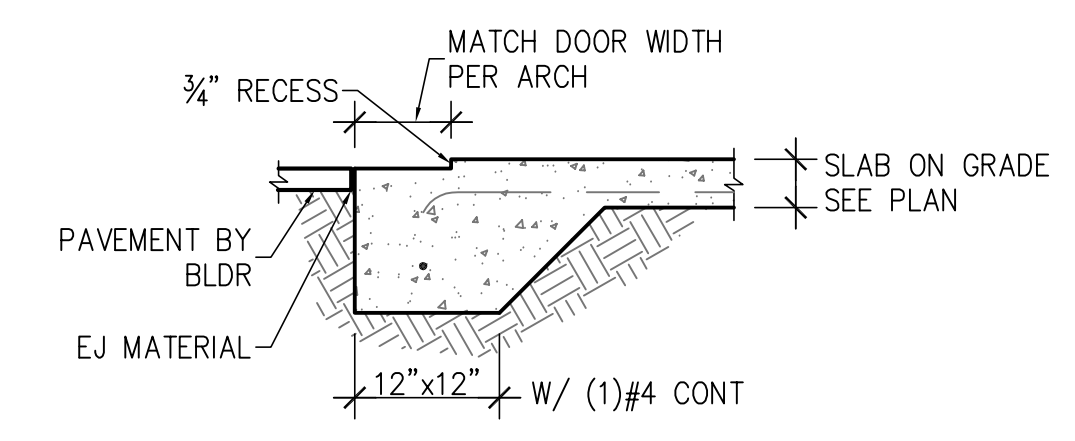
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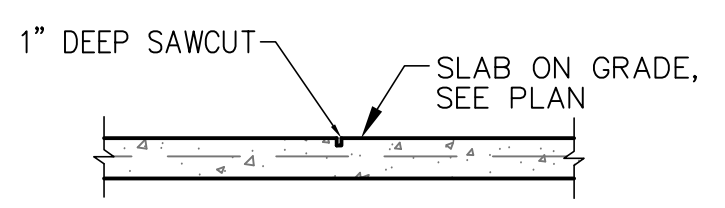
**INCLUDE**



2 NEW FOOTING TO EXISTING FOOTING  
S1.01

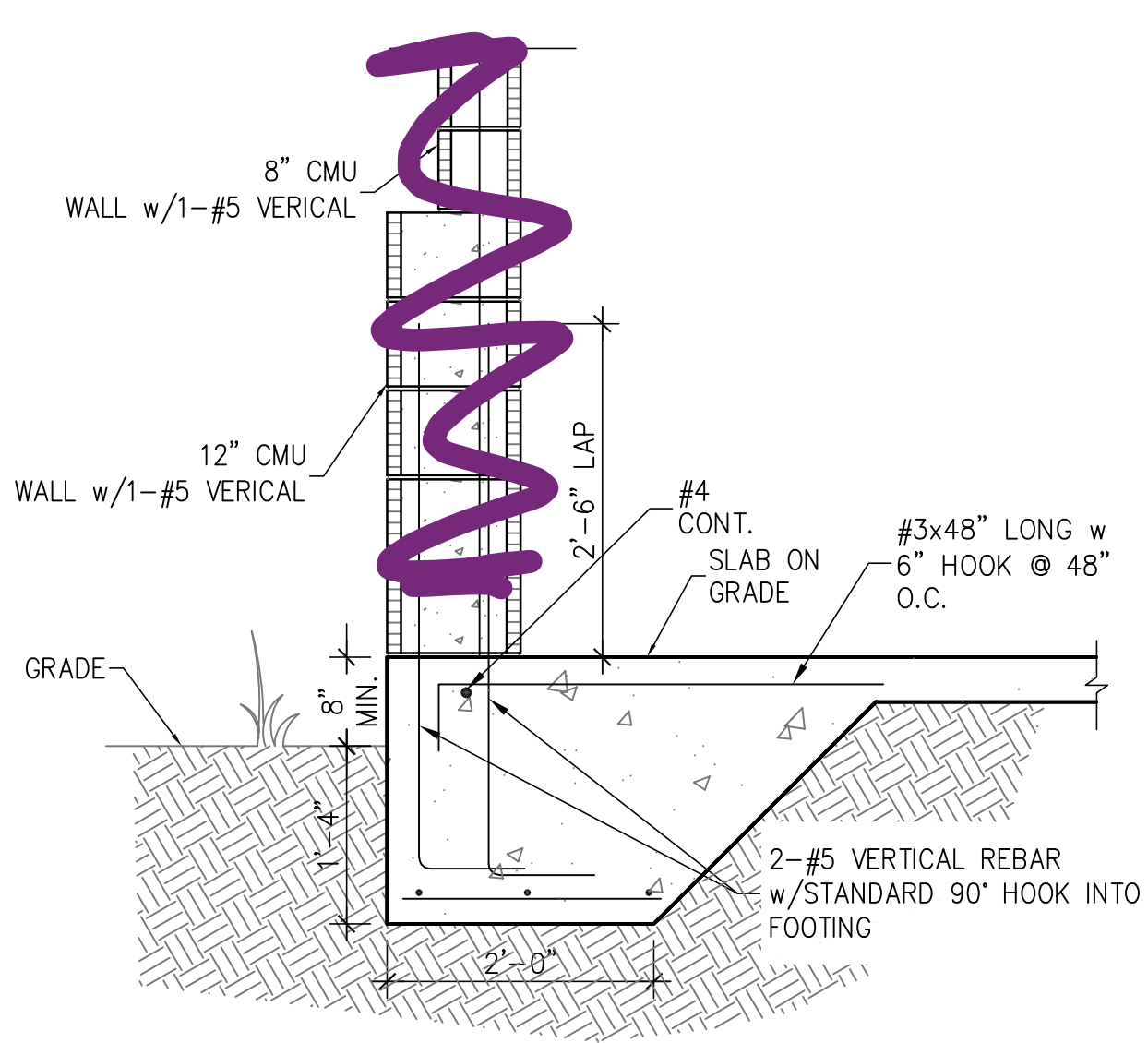


3 THICKENED SLAB AT GARAGE  
S1.01



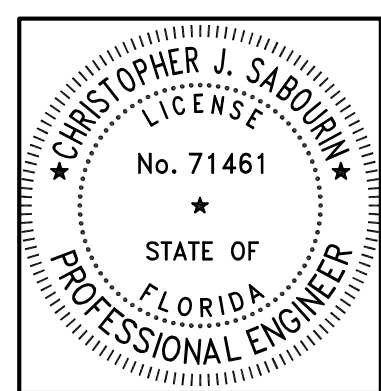
- NOTES:
- 1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 16' X 16' MAX. SQ.
  - 2) IT IS RECOMMENDED TO SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT PER ACI360.

4 SAW CUT DETAIL  
S1.01



5 NEW FOOTING TO EXISTING FOOTING  
S1.01

**INCLUDE**



04.24.23  
Christopher J Sabourin  
FL PE #71461

**SABO**  
STRUCTURAL  
ENGINEERING  
CA#32529  
235 9TH AVE N  
JAX BEACH, FL 32250  
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STRUCTURAL ENGINEERING FOR  
JOHN'S AUTOMOTIVE AT  
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FIRST LEVEL  
WALL  
FRAMING  
PLAN

**OPTION 2**  
SHEET  
S1.1  
SHEET 5 OF 11

**SYMBOLS LEGEND**

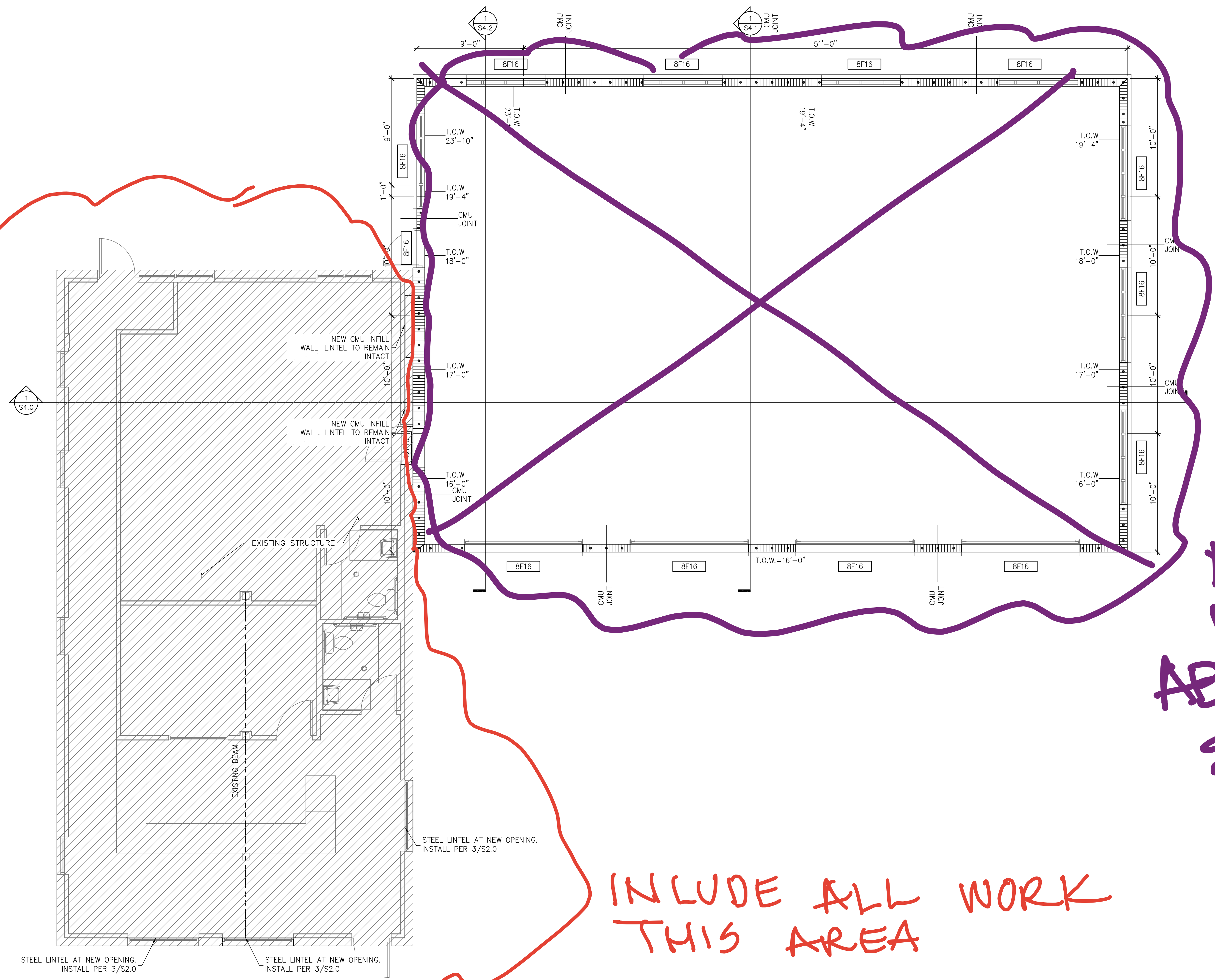
	DESIGNATES OSB SHEARWALL. THE HIDDEN LINE DESIGNATES SIDE OF WALL THE OSB SHEATHING TO BE APPLIED. 3/12 DESIGNATES 84 @ 3" O.C. EDGE & 12" O.C. "IN THE FIELD"
	DESIGNATES THE HEADER SIZE, NUMBER OF PLYS & JACKING STUDS NEEDED FOR SUPPORT HEADER. SEE DETAIL 4/S2.0
	BEAM OR TRUSS, SEE PLAN
	INTERIOR LOAD BEARING WALL (NO UPLIFT)
	DESIGNATES CMU WALL SEE S2.0 & S3.0

- GENERAL NOTES**
- SEE DETAIL S2.0 FOR WALL FRAMING DETAIL. SEE WALL STUD SCHEDULE THIS SHEET FOR STUD SIZES AND SPACING. AT GRIDDERS AND BEAMS, PROVIDE STUDS BELOW TO MATCH BEAM/GRIDER PLYS.
  - SEE SHEET S0.0 FOR ROOF AND FLOOR SHEATHING SPECIFICATIONS.
  - WHERE FRAMING MEMBERS CONSIST OF MULTIPLE PLYS (BEAMS, HEADER, AND STUDS) FASTEN PLYS TOGETHER PER DETAIL 4/S2.0

- MASONRY NOTES**
- MASONRY WALLS SHALL BE REINFORCE WITH PER TABLE BELOW. AT CORNERS, JAMBS, AND WALL INTERSECTIONS. SEE 2/S3.0 FOR ADDITIONAL REINFORCEMENT AT JAMBS OVER 4'-4"
  - PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
  - GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT AND ALL CELLS BELOW GRADE. SEE S3.0 FOR GROUTING NOTES.
  - WALL COURSEING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED
  - AT WALL CORNERS AND INTERSECTIONS, WALL COURSEING SHALL INTERLOCK, EVERY OTHER COARSE.
  - SEE S3.0 FOR MASONRY REINFORCING DETAILS
  - WHERE NON-PRESSURE TREATED WOOD BEARS ON CMU PROVIDE 2-LAYERS OF 30 LBS. ROOFING PAPER BETWEEN WOOD & CMU WALL.
  - #/# DENOTES LINTELS OVER OPENINGS PER DETAIL 4/S3.0

**MASONRY WALL REINFORCING SCHEDULE**

WIDTH	T.O.W.	REBAR	SPACING
8" /12" CMU	16'-0"	(1)#5	24" O.C.
8" /12" CMU	17'-0"	(1)#5	16" O.C.
8" /12" CMU	18'-0"	(1)#5	16" O.C.
8" CMU	19'-4"	(1)#5	16" O.C.
8" CMU	23'-10"	(1)#6	16" O.C.

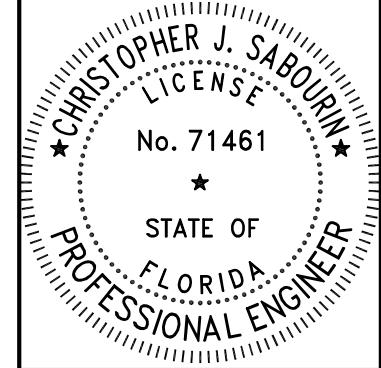


INCLUDE ALL WORK  
THIS AREA

NO  
WORK  
ABOVE  
SLAB

STEEL LINTEL AT NEW OPENING.  
INSTALL PER 3/S2.0

T.O.W. DENOTES TOP OF MASONRY WALL & WOOD PLATES  
FIRST LEVEL WALL FRAMING PLAN  
SCALE: 1/4" = 1'-0"



04.24.23  
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FL PE #71461

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STRUCTURAL  
ENGINEERING  
CA#32529  
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904-712-5750  
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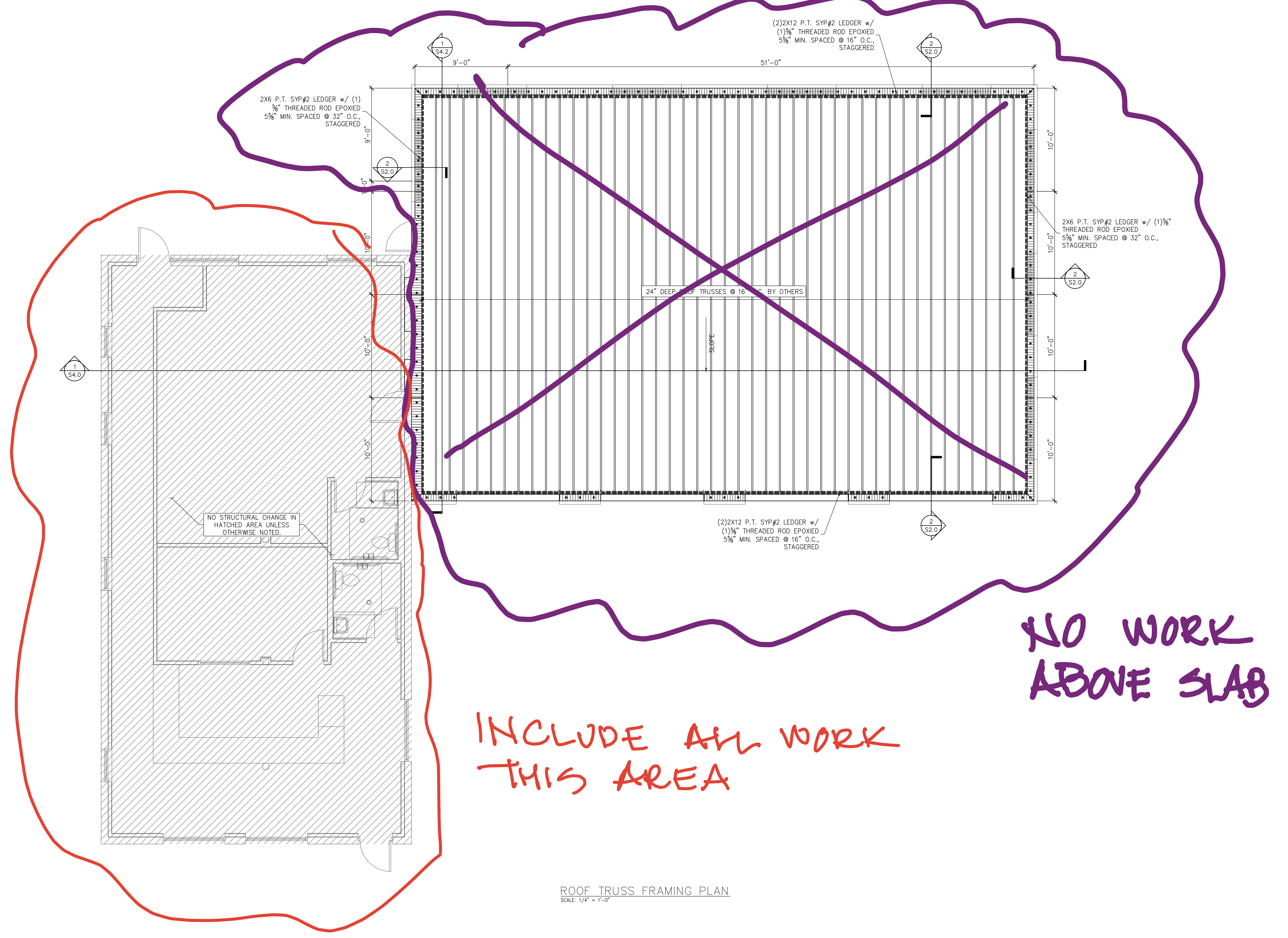
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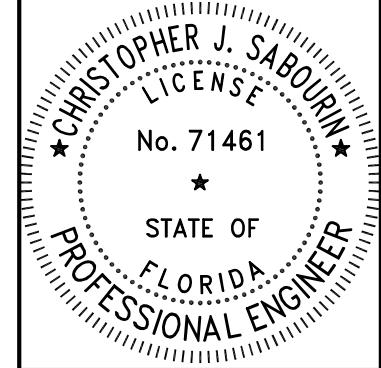
ROOF  
TRUSS  
FRAMING  
PLAN  
**OPTION 2**

SHEET  
S1.2  
SHEET 6 OF 11



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





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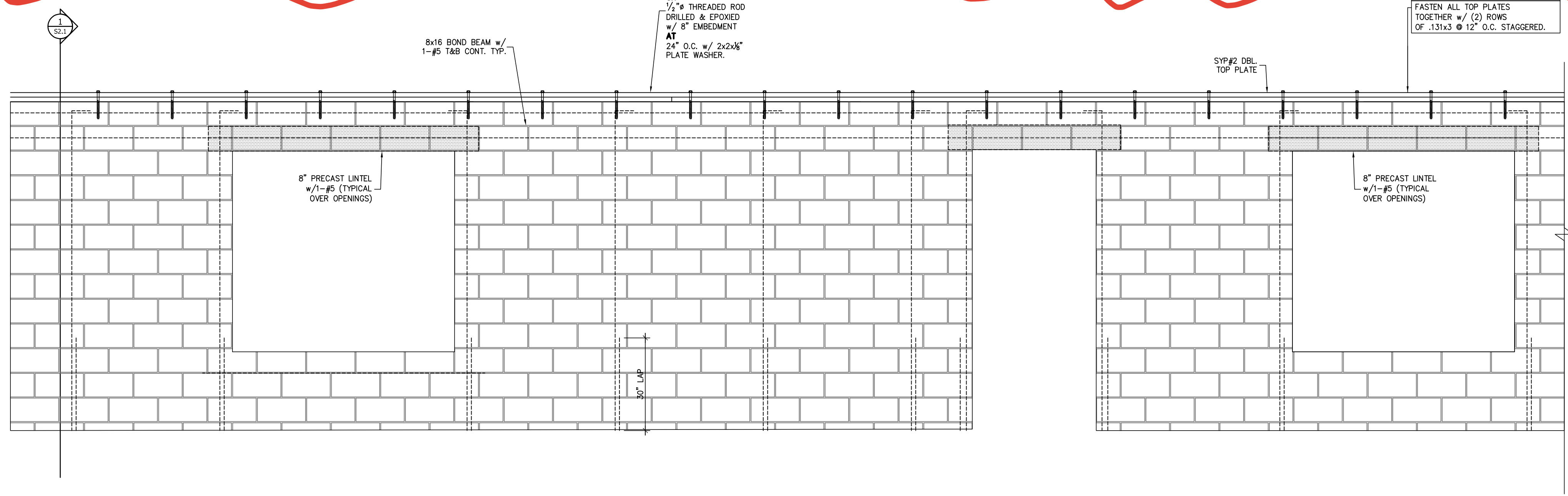
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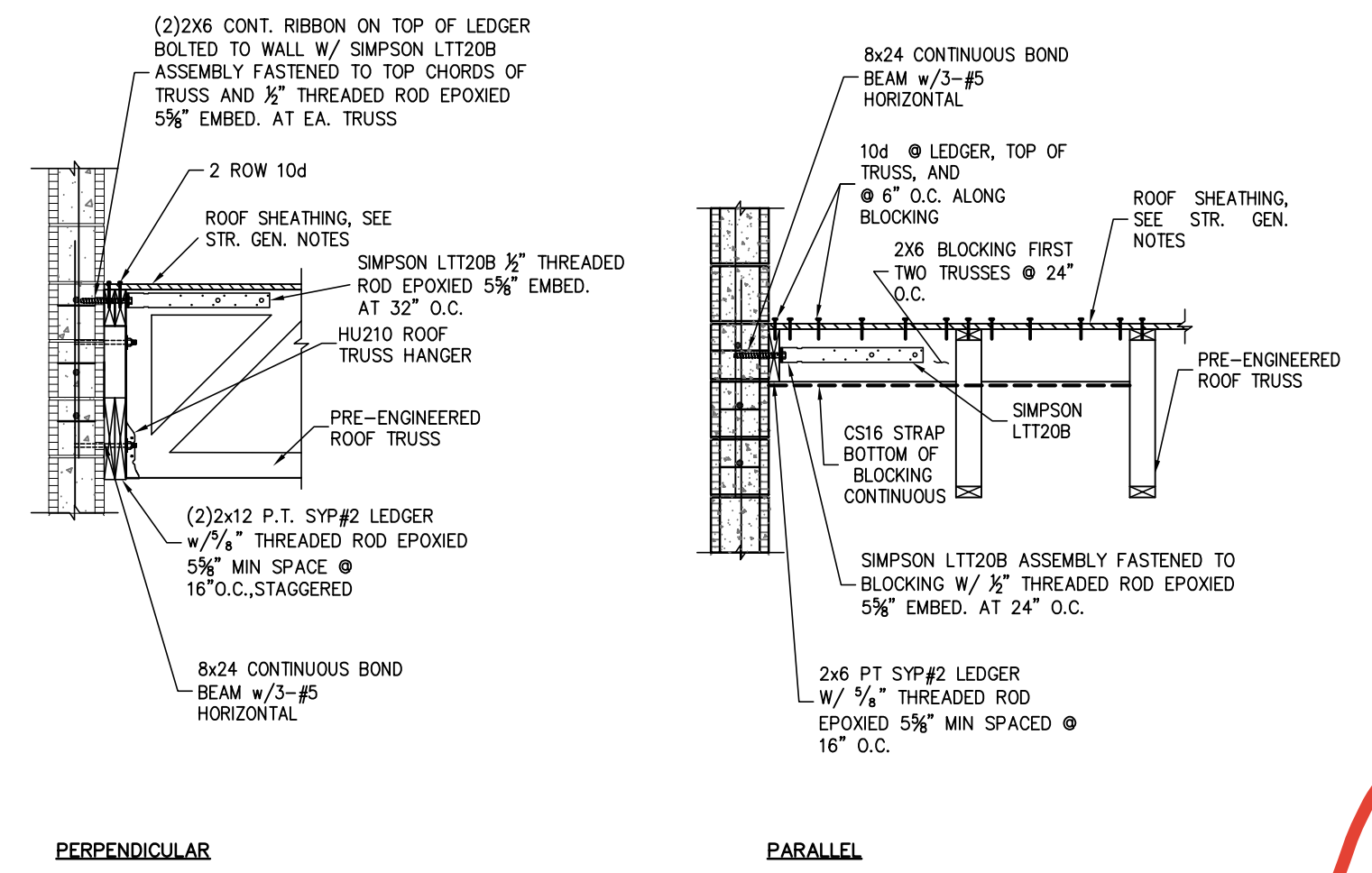
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TYPICAL  
FRAMING  
DETAILS  
**OPTION 2**  
SHEET  
S2.0  
SHEET 7 OF 11

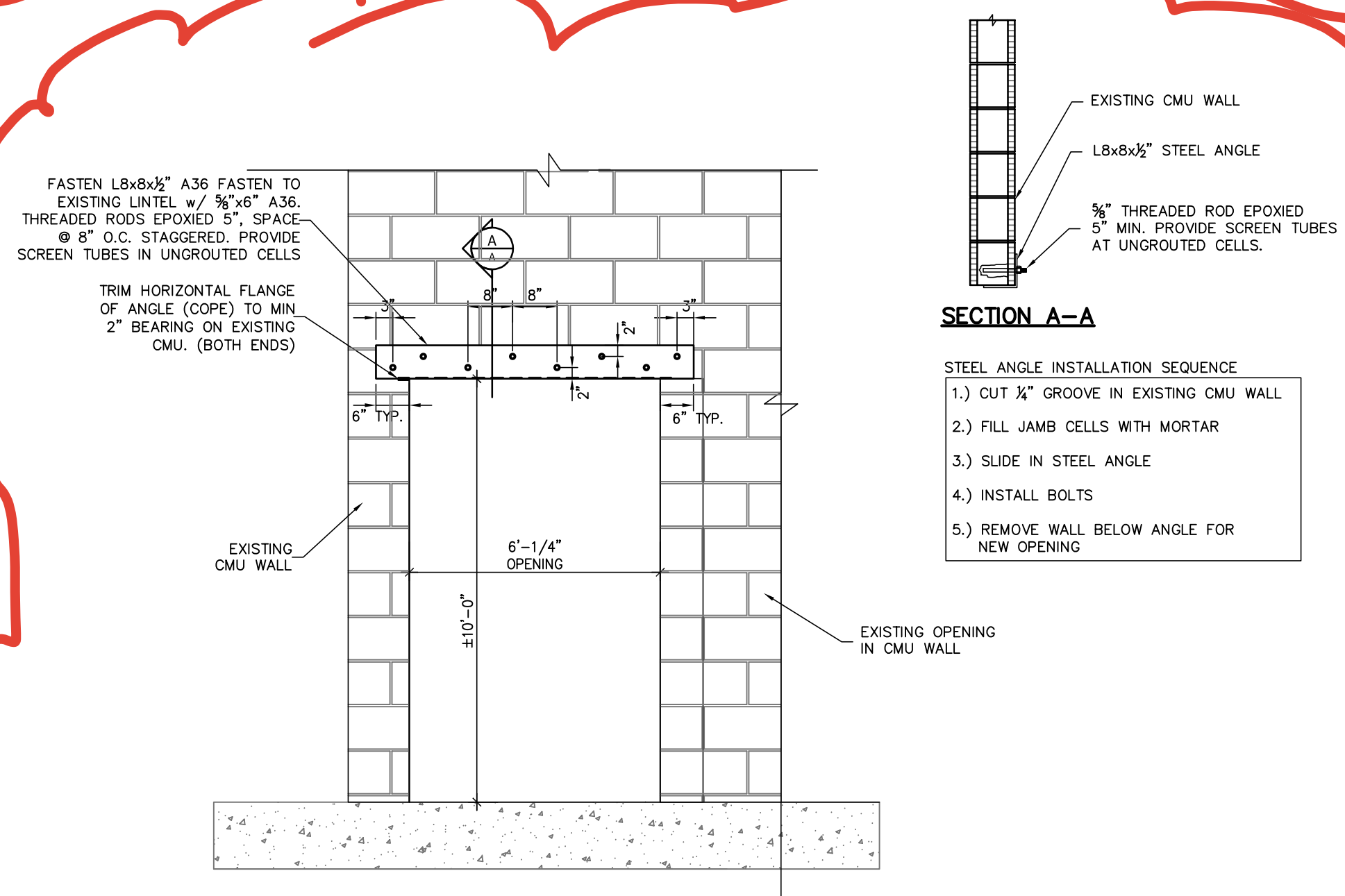


- MASONRY NOTES:**
- MASONRY WALLS SHALL BE REINFORCE WITH 1-#5 VERTICAL @ 48" O.C. AT CORNERS, JAMBS, AND WALL INTERSECTIONS. SEE 2/S3.0 FOR ADDITIONAL REINFORCEMENT AT JAMBS OVER 4'-4".
  - PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C.
  - GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT AND ALL CELLS BELOW GRADE. SEE S3.0 FOR GROUTING NOTES.
  - WALL COURSING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED
  - AT WALL CORNERS AND INTERSECTIONS, WALL COURSING SHALL INTERLOCK, EVERY OTHER COURSE.
  - SEE S3.0 FOR MASONRY REINFORCING DETAILS
  - WHERE NON-PRESSURE TREATED WOOD BEARS ON CMU PROVIDE 2-LAYERS OF 30 LBS. ROOFING PAPER BETWEEN WOOD & CMU WALL.

1 TYPICAL EXTERIOR WALL ELEVATION - INCLUDE

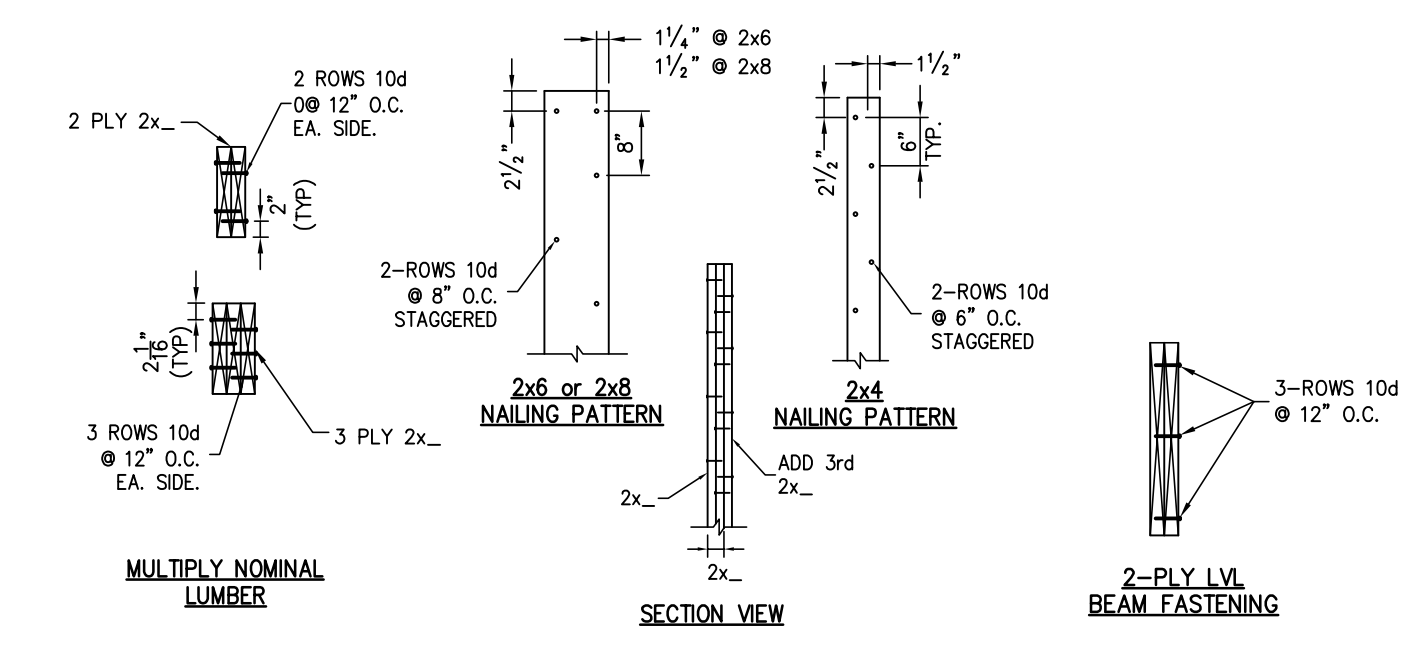


2 ROOF LEDGER CONNECTION

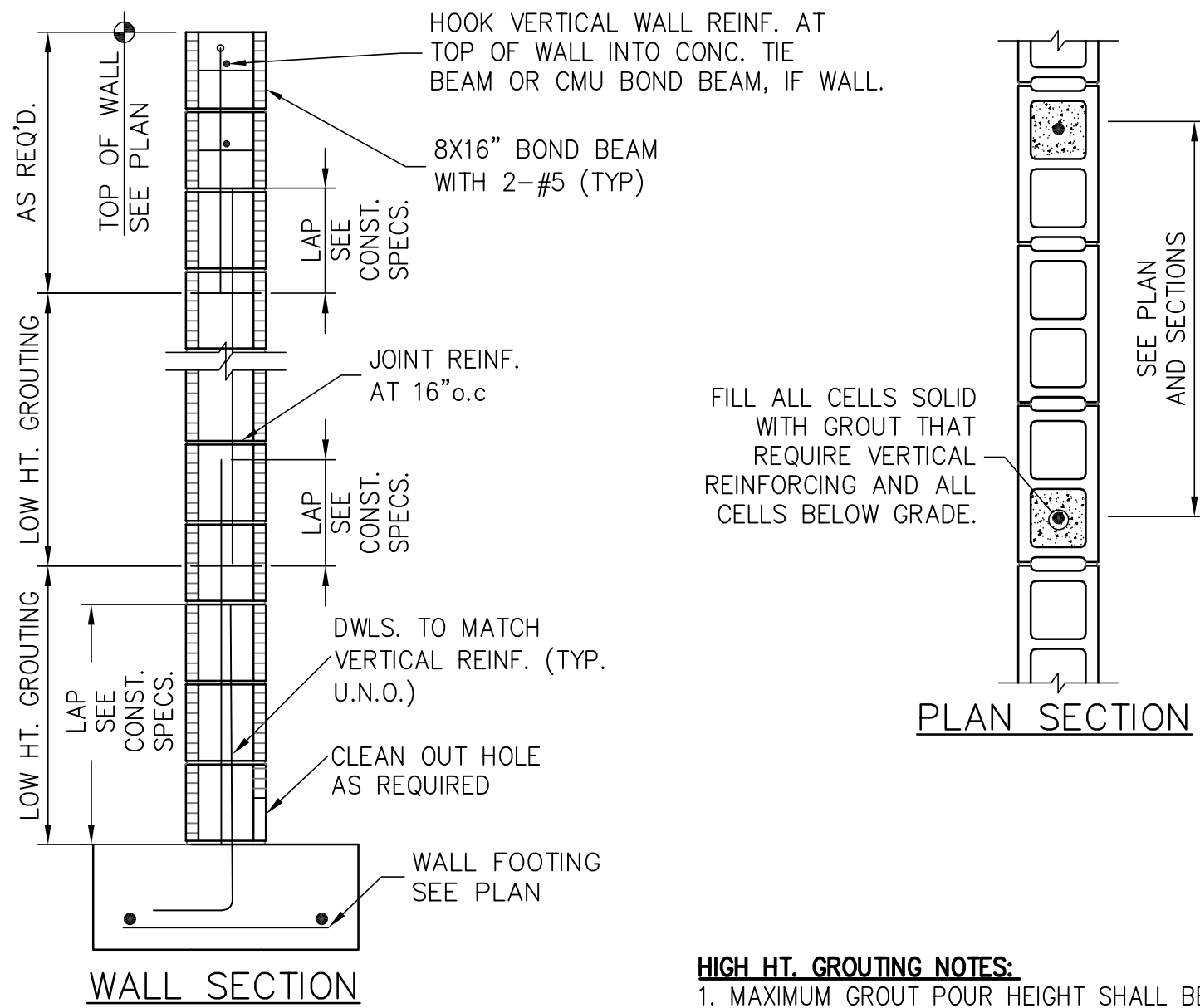
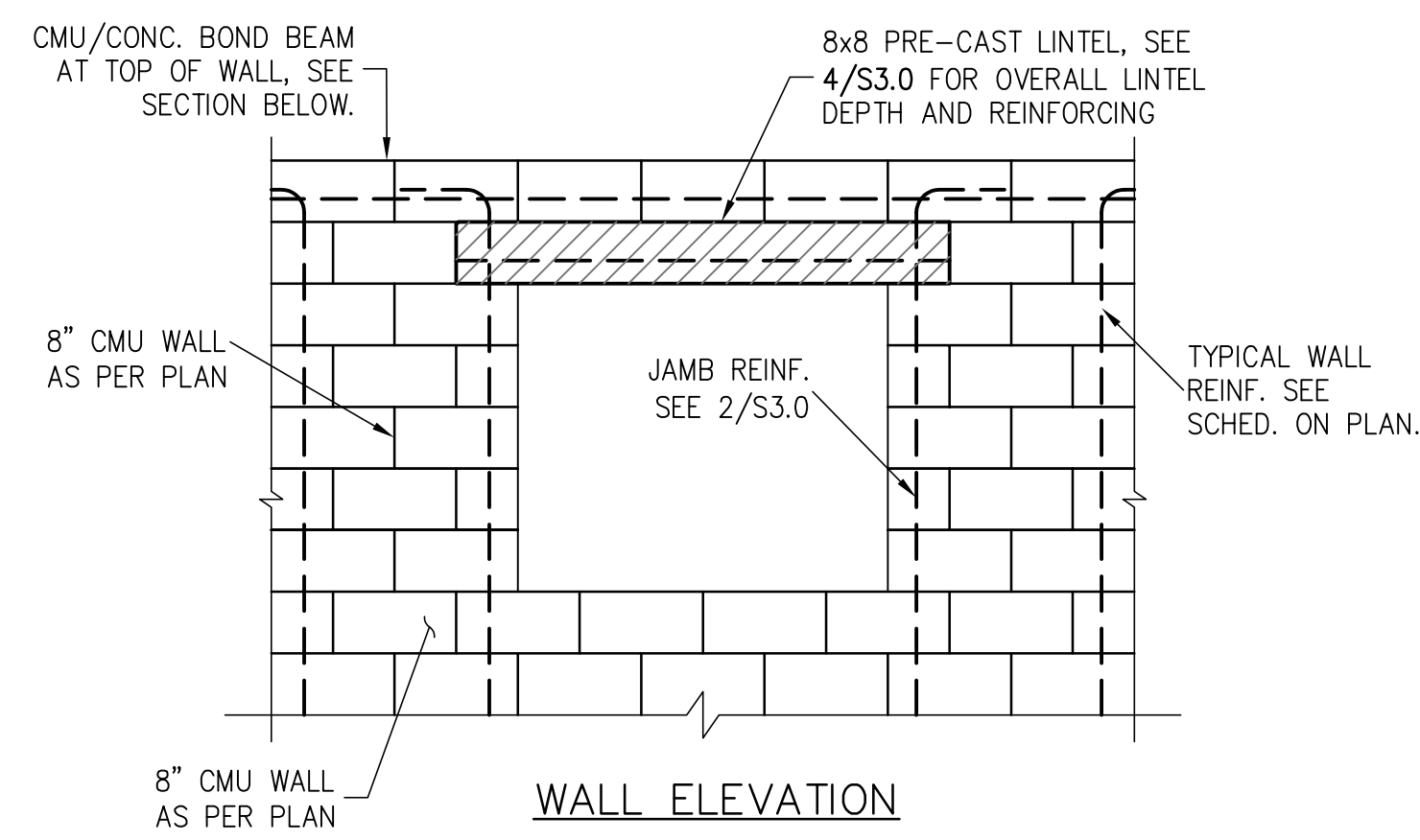


3 NEW OPENING IN EXISTING CMU WALL INCLUDE

- STEEL ANGLE INSTALLATION SEQUENCE**
- CUT 1/2" GROOVE IN EXISTING CMU WALL
  - FILL JAMB CELLS WITH MORTAR
  - SLIDE IN STEEL ANGLE
  - INSTALL BOLTS
  - REMOVE WALL BELOW ANGLE FOR NEW OPENING



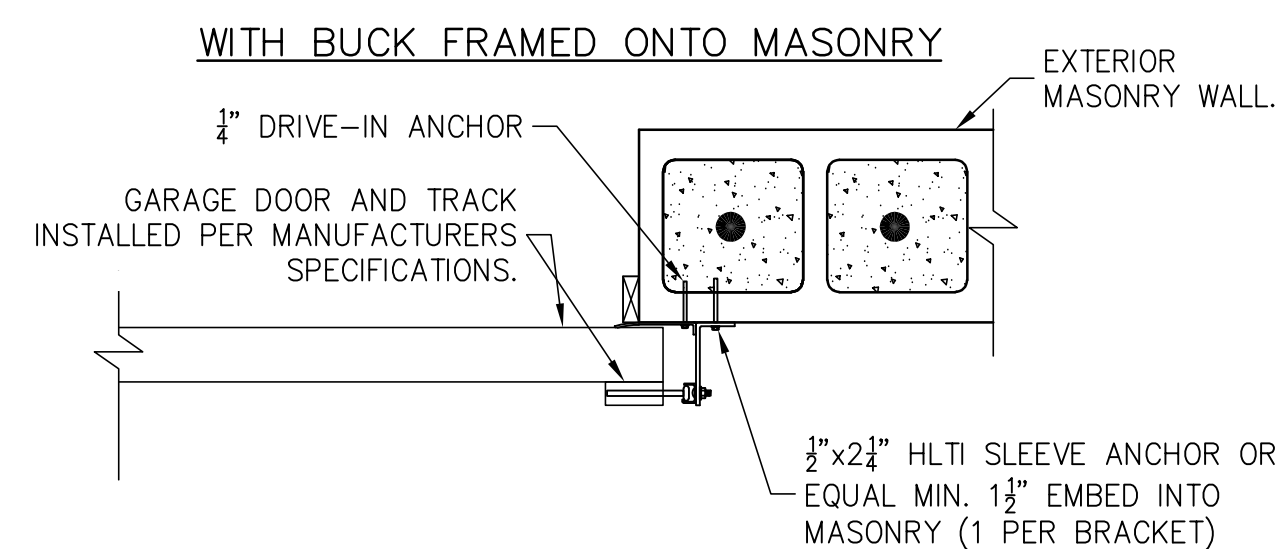
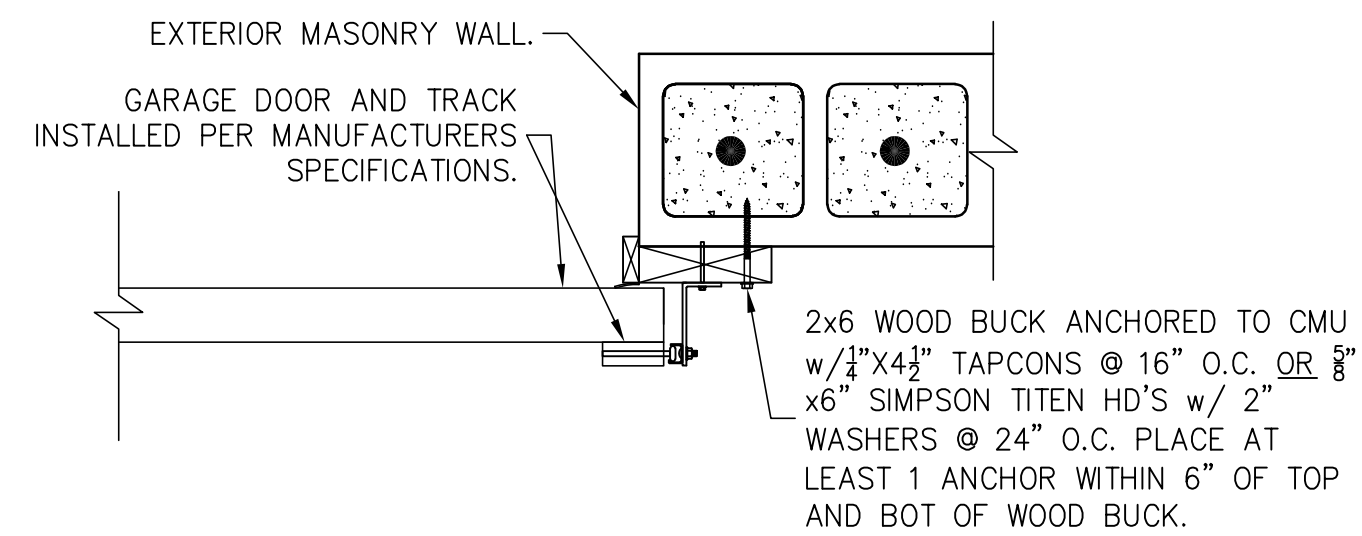
4 BUILT - UP MEMBER FASTENING SCALE: N.T.S.



**HIGH HT. GROUTING NOTES:**

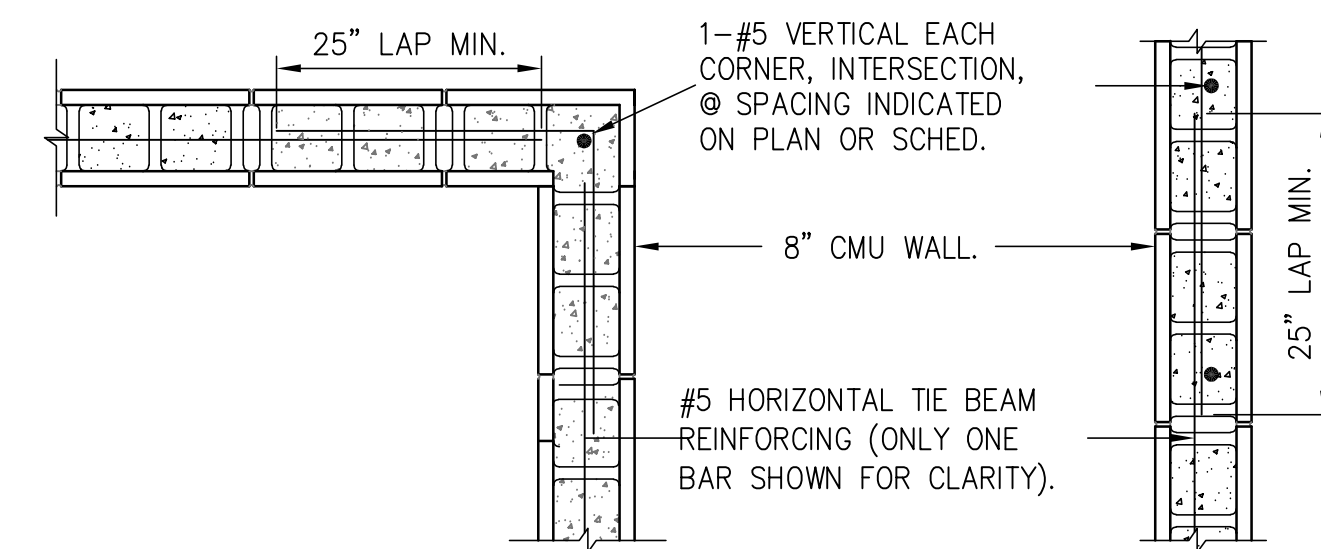
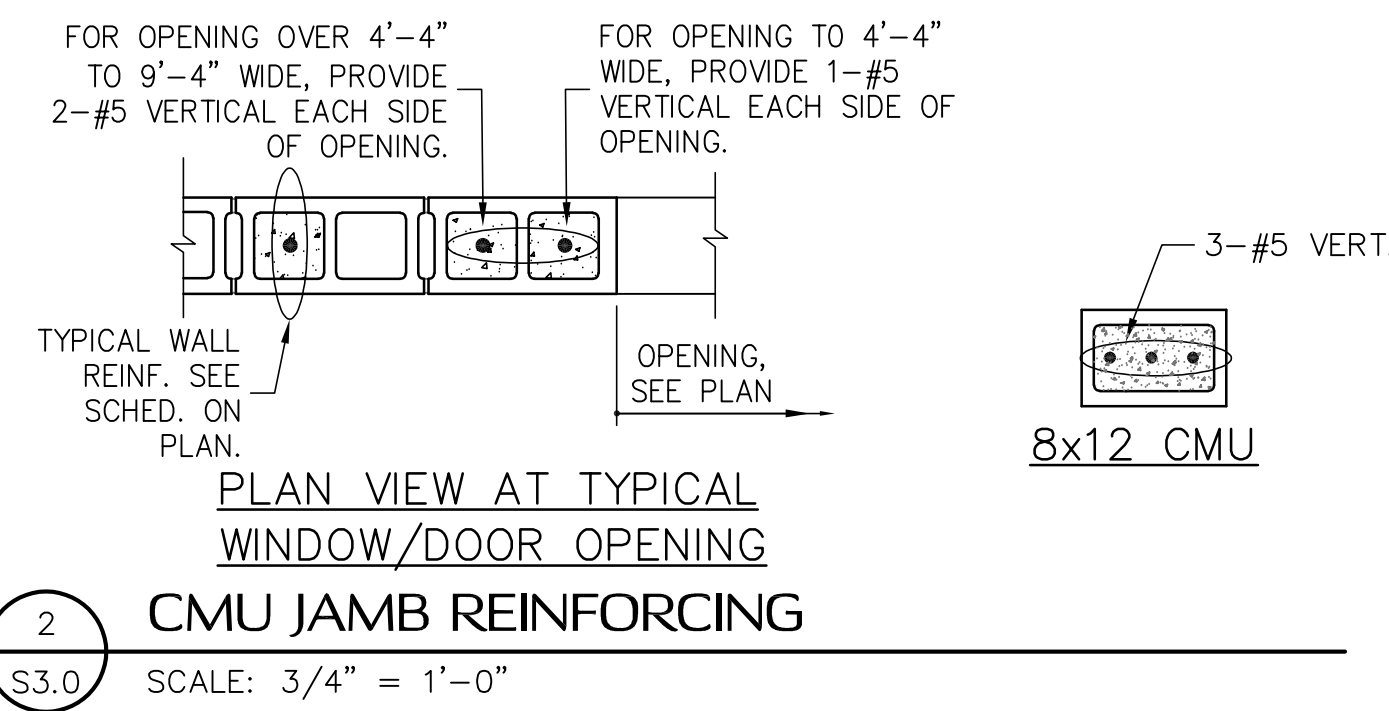
1. MAXIMUM GROUT POUR HEIGHT SHALL BE 12'-0".
2. IF HIGH LIFT GROUTING IS USED, REINF. SHALL BE FULL HEIGHT AND A CLEANOUT HOLE IS REQ'D AT CELLS WITH REBAR.
3. GROUT SHALL BE PLACED IN 5' LIFTS TO PREVENT BLOWOUTS.
4. SEE SPECIFICATIONS AND STRUCTURAL NOTES FOR GROUT TYPE AND GROUTED CELL SIZE.

**1** TYPICAL WALL REINFORCEMENT  
S3.0 SCALE: N.T.S.

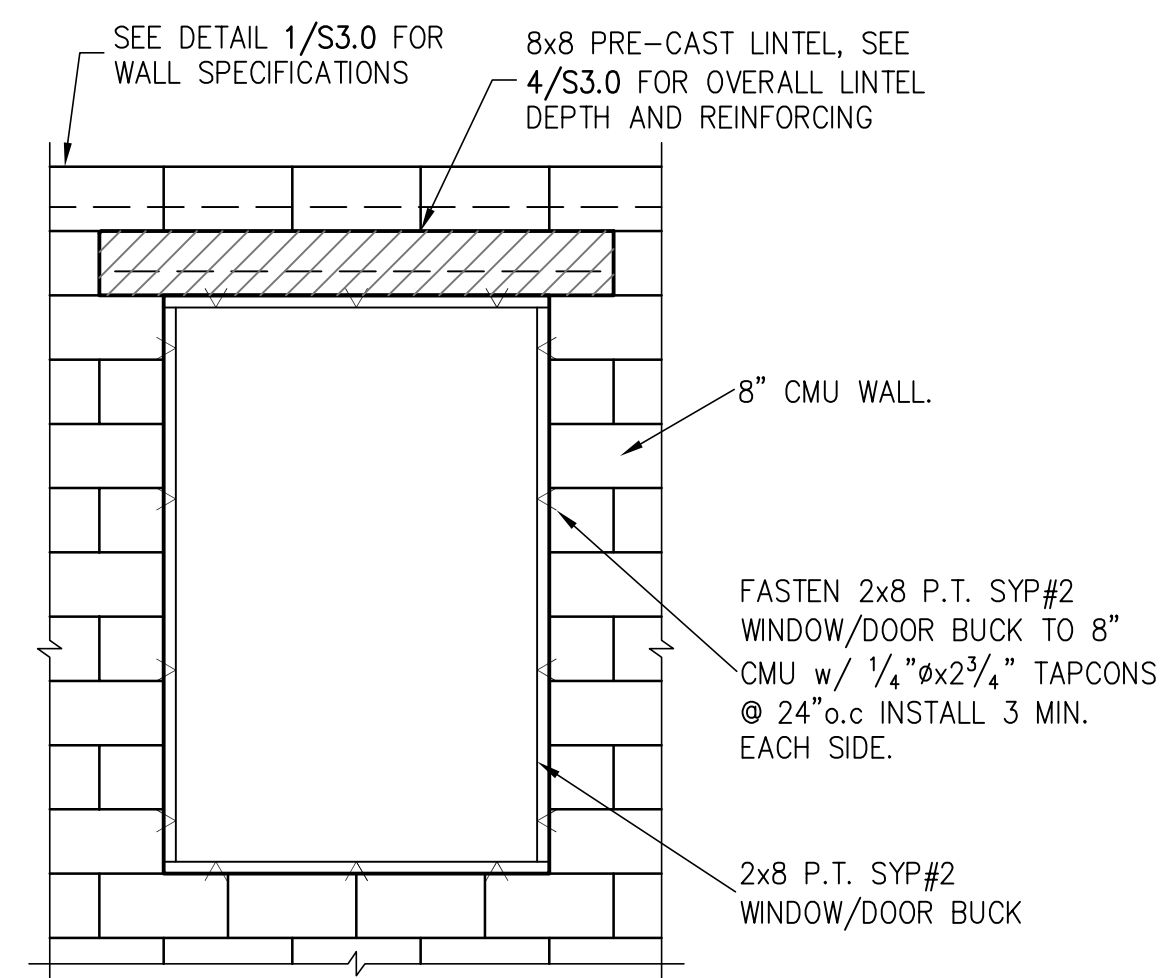


NO BUCK AND ATTACHED DIRECTLY TO MASONRY

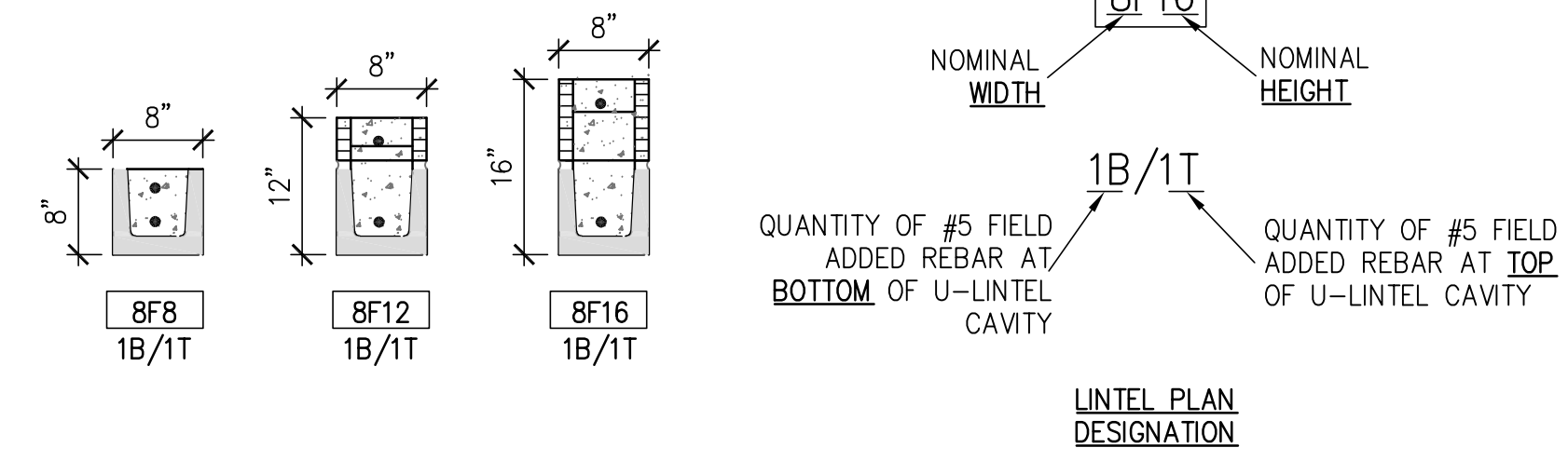
**9** GARAGE DOOR ATTACHMENT  
S3.0 SCALE: N.T.S.



**3** TYPICAL HORIZONTAL/CORNER SPLICE  
S3.0 SCALE: 3/4" = 1'-0"



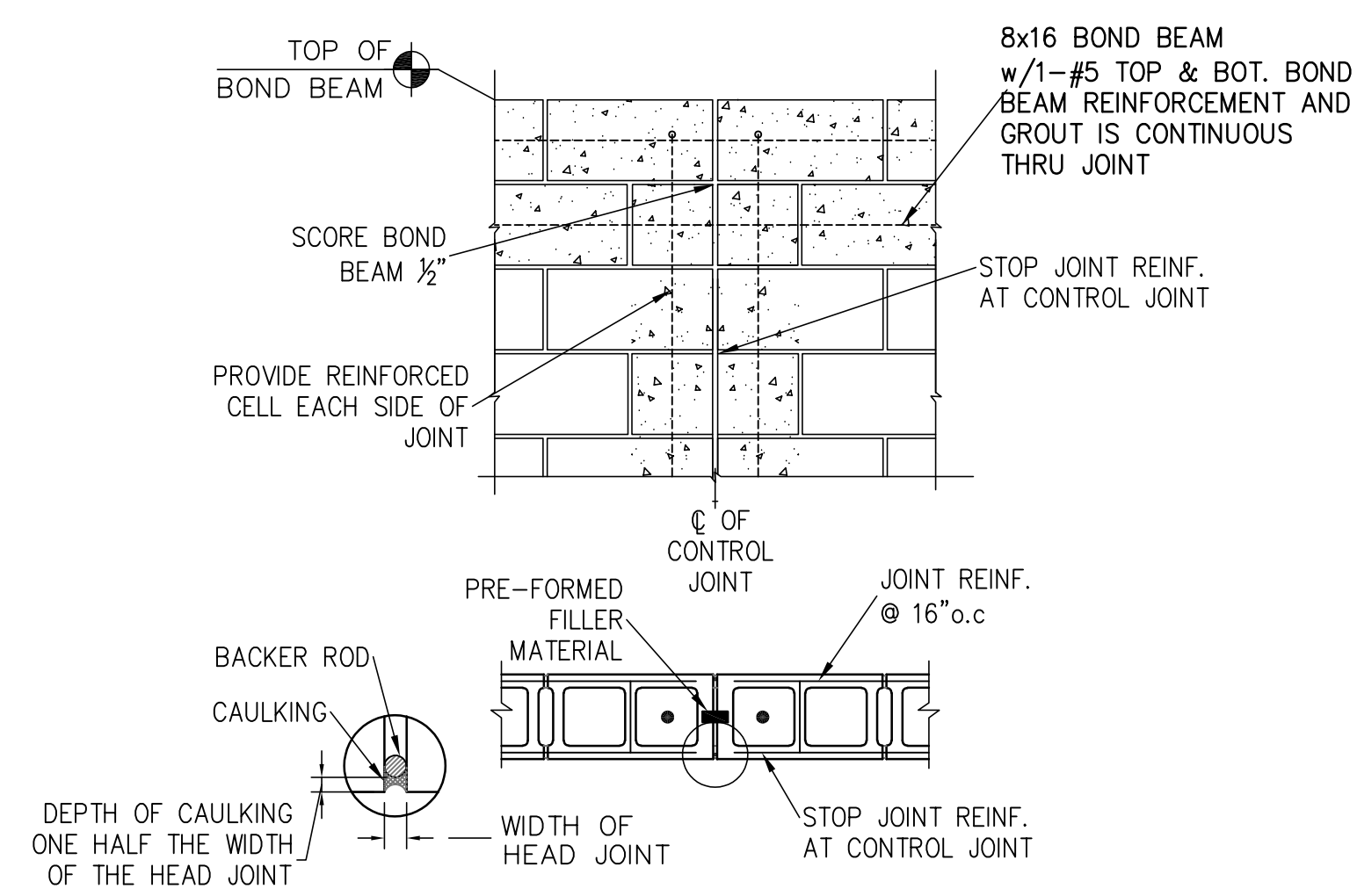
**6** STRUCTURAL WINDOW/DOOR BUCK  
S3.0 SEE 1/S3.0 FOR INFORMATION NOT SHOWN.



**NOTES:**

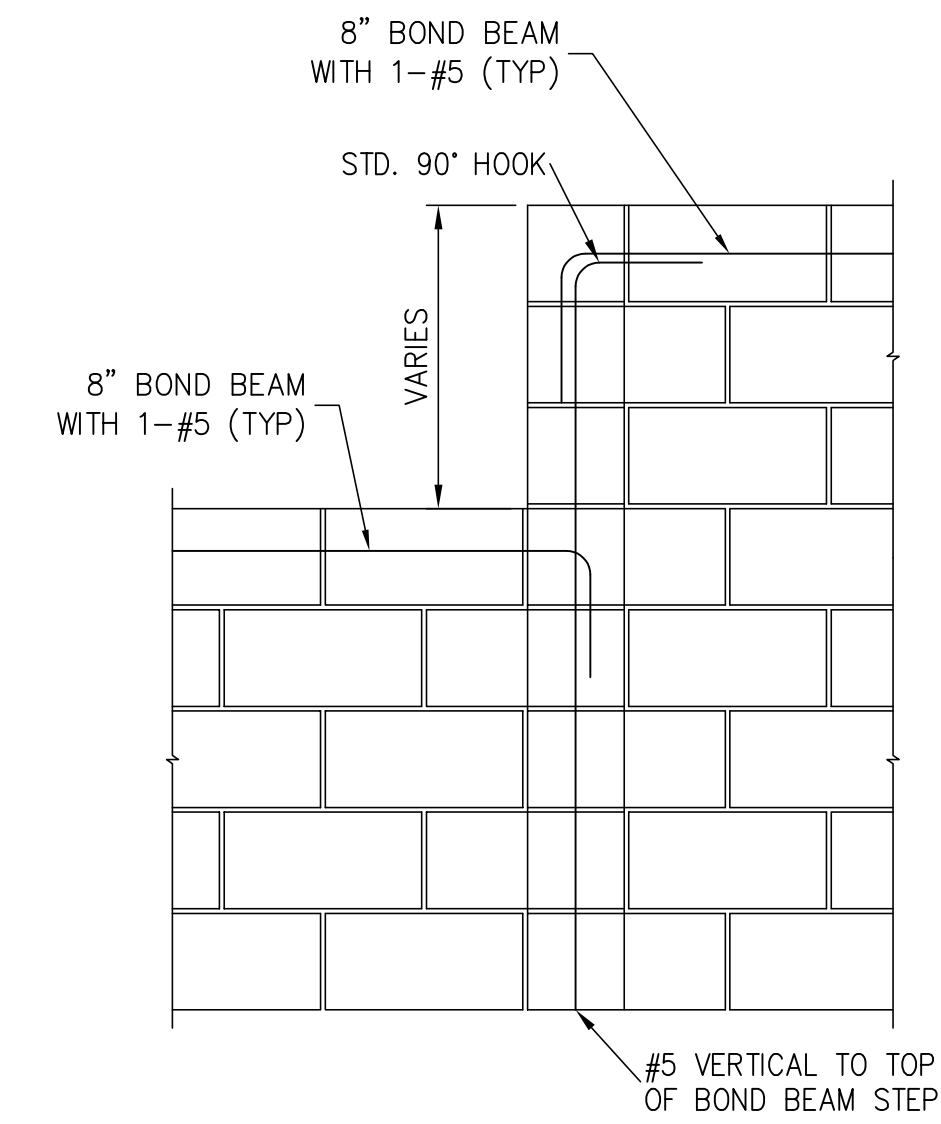
1. PRECAST LINTELS MUST BE DESIGNED BY CAST-CRETE CORP. OR BETTER. SEE CAST-CRETE "PRECAST CONCRETE PRODUCT DESIGN GUIDE" FOR SPECS
2. SEE 1ST AND 2ND LEVEL FRAMING PLAN FOR LINTEL PER OPENING DESIGNATION
3. PROVIDE MIN 8" BEARING EACH SIDE OF OPENING.
4. GROUT LINTEL SOLID.
5. EXTEND HORIZONTAL REINFORCING 16" PAST OPENING

**4** LINTEL DETAIL  
S3.0 SCALE: 3/4" = 1'-0"

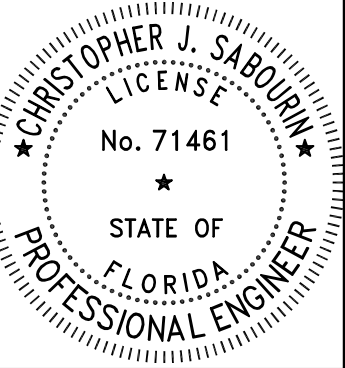


**7** CMU CONTROL JOINT  
S3.0 SCALE: N.T.S.

**5** MASONRY WALL STEP  
S3.0 SCALE: 3/4" = 1'-0"



**INCLUDE WHERE NOTED**



04.24.23  
Christopher J Sabourin  
FL PE #71461

**SABO**  
STRUCTURAL  
ENGINEERING  
CA#32529  
235 9TH AVE N  
JAX BEACH, FL 32250  
904-712-5750  
CHRIS@SABOENG.COM

PLAN NAME  
JOHN'S AUTOMOTIVE  
SSE No.  
23-0203

ISSUE	DATE
PERMIT	04.24.23
REVISIONS	DATE

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JOHN'S AUTOMOTIVE AT  
5748 ARLINGTON RD  
JACKSONVILLE, FL 32211

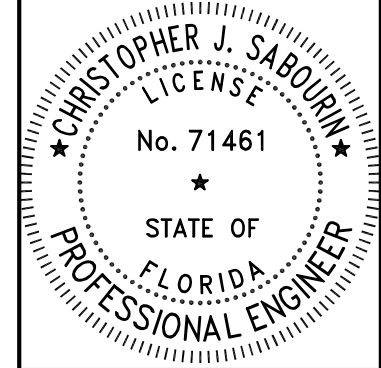
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**SCALING**  
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CMU DETAILS

**OPTION 2**

SHEET  
S3.0  
SHEET 8 OF 11



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FL PE#71461

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JAX BEACH, FL 32250  
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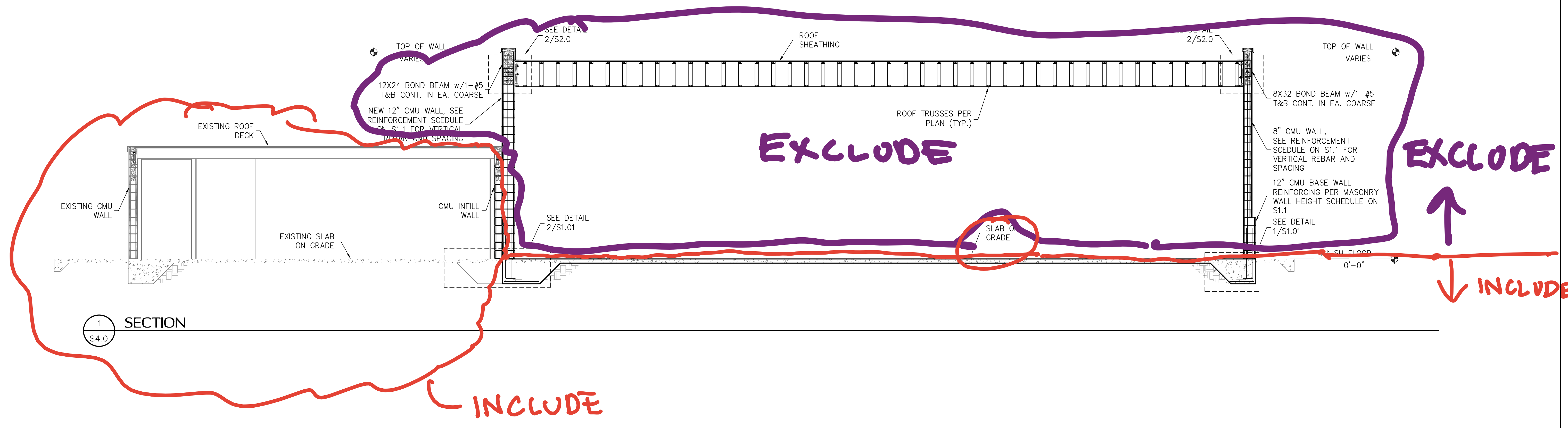
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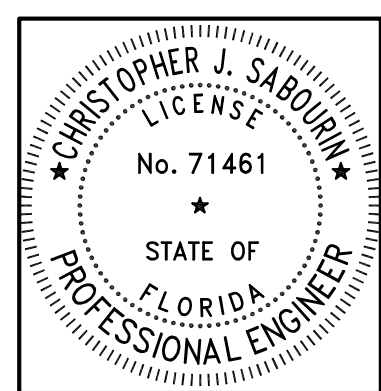
WAREHOUSE  
SECTION

**OPTION 2**

SHEET  
**S4.0**  
SHEET 9 OF 11



1 SECTION  
S4.0



04.24.23  
Christopher J Sabourin  
FL PE #71461

**SABO**  
STRUCTURAL  
ENGINEERING  
CA#32529  
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JAX BEACH, FL 32250  
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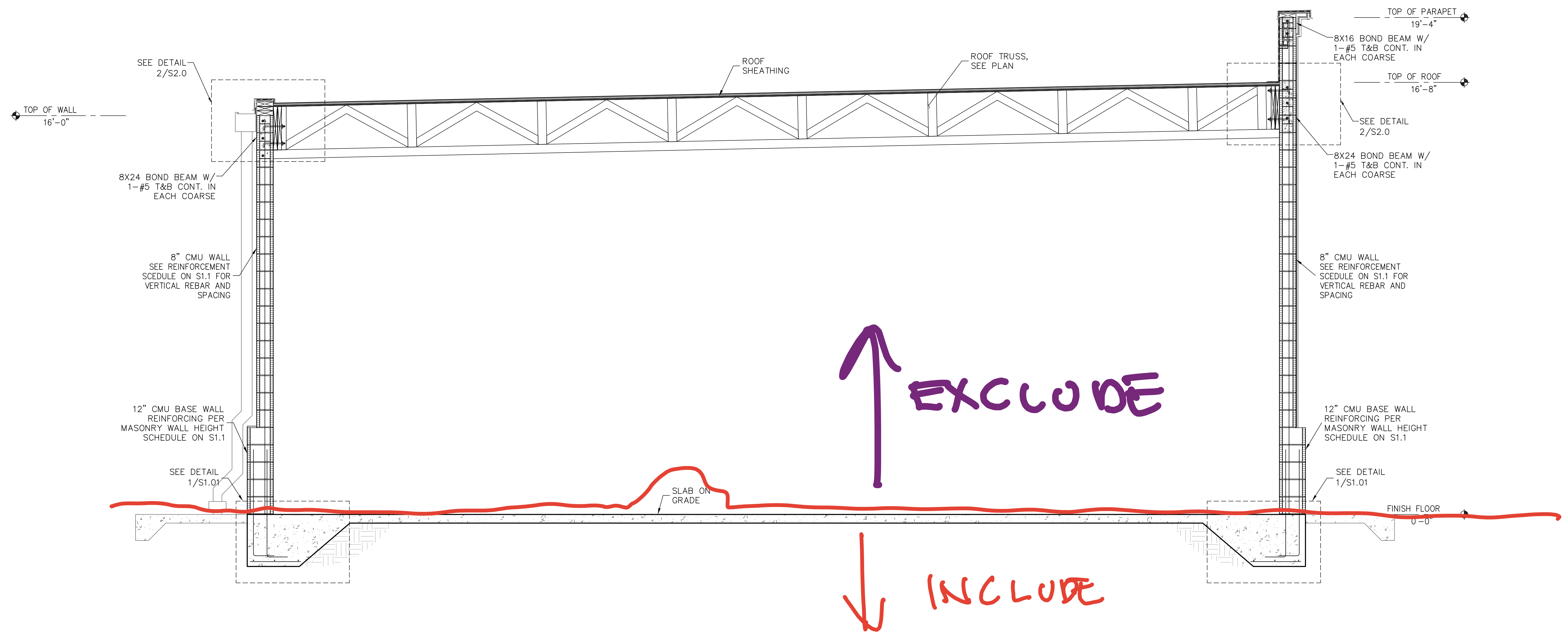
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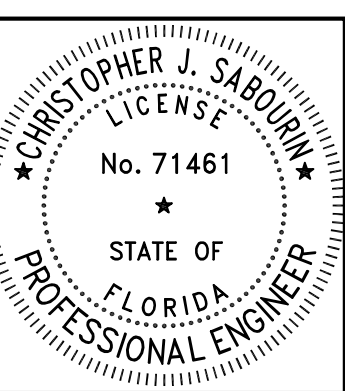
WAREHOUSE  
SECTION

**OPTION 2**

SHEET  
**S4.1**  
SHEET 10 OF 11



1 SECTION  
S4.1



04.24.23  
Christopher J Sabourin  
FL PE#71461

**SABO**  
STRUCTURAL  
ENGINEERING  
CA#32529  
235 9TH AVE N  
JAX BEACH, FL 32250  
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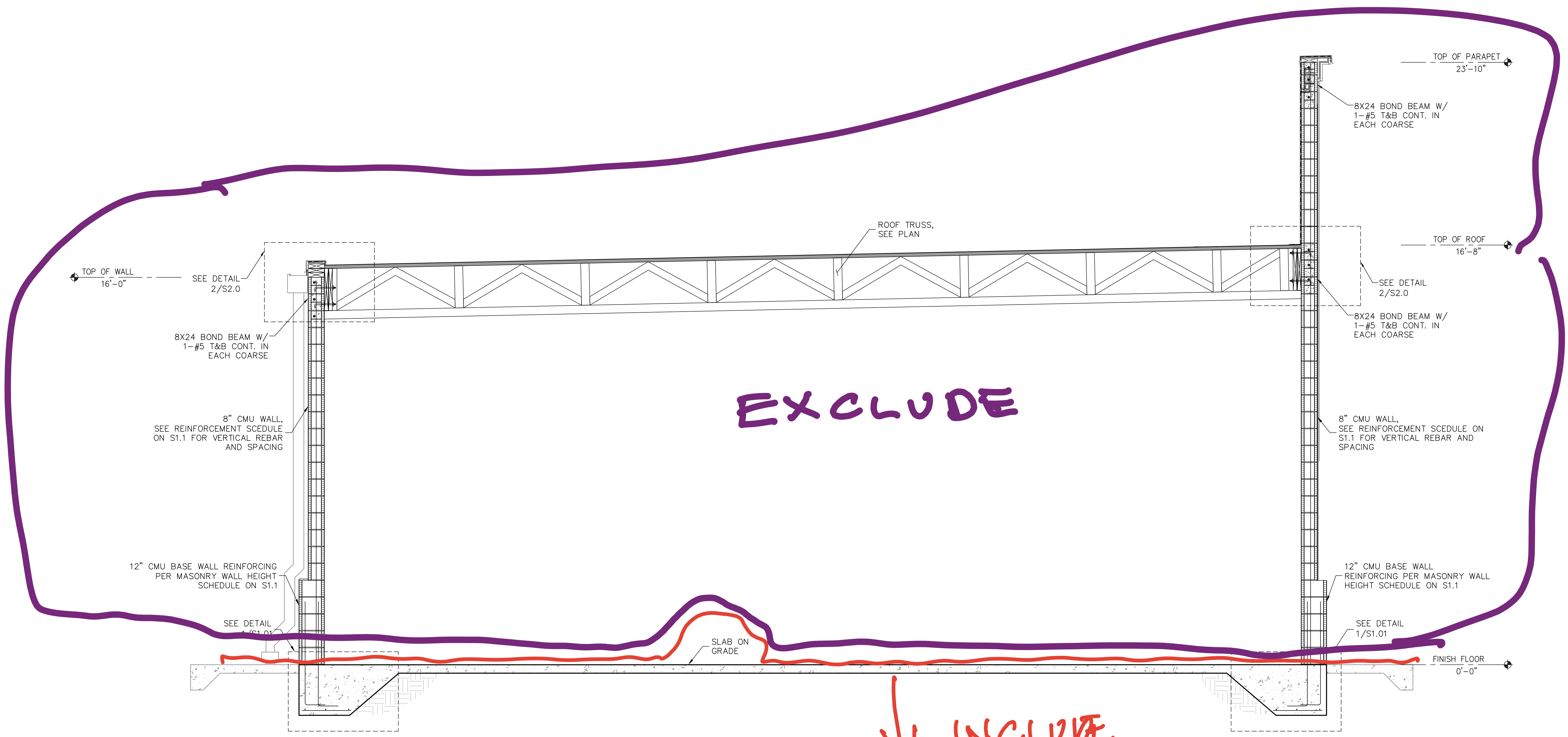
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WAREHOUSE  
SECTION

SHEET  
**S4.2**  
SHEET 11 OF 11



**EXCLUDE**

**↓ INCLUDE**

1 SECTION  
S4.2

ELECTRICAL LEGEND

- 2' X 2' RECESSED LED TROFFER LIGHT FIXTURE.
- SUSPENDED LED HIGH-BAY LIGHT FIXTURE.
- 4' LED STRIP LIGHT FIXTURE.
- RECESSED DOWN LIGHT FIXTURE.
- WALL MOUNT LIGHT FIXTURE WITH HID, COMPACT FLUORESCENT, OR LED LIGHT SOURCE.
- POLE MOUNT LED AREA LIGHT FIXTURE.
- COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90 MINUTE BATTERY AND TEST SWITCH. SHADED SIDE REPRESENTS ILLUMINATED FACE. ARROWS REPRESENT DIRECTIONAL CHEVRONS.
- EMERGENCY LIGHT FIXTURE WITH INTEGRAL 90 MINUTE BATTERY AND TEST SWITCH.
- SINGLE POLE SWITCH. NUMBER, IF PROVIDED, DENOTES SWITCH LOOP.
- SINGLE POLE TOGGLE SWITCH WITH BUILT IN DUAL-TECHNOLOGY OCCUPANCY SENSOR, 20 AMP, 120/277 VOLT, WITH COVER PLATE.

- DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND AND COVER PLATE. NUMBER, IF PROVIDED, REPRESENTS HEIGHT ABOVE FINISHED FLOOR.
- GFI DUPLEX RECEPTACLE, 20A, 120V, WITH GROUND PLATE. NUMBER.
- SPECIAL PURPOSE RECEPTACLE WITH GROUND AND COVER PLATE. TAG (IF PROVIDED) INDICATES NEMA RECEPTACLE TYPE.
- DATA OUTLET, AND BACK BOX. BOX AROUND SYMBOL INDICATES FLOOR MOUNT WITH BRASS COVER PLATE.
- JUNCTION BOX PER NEC AND SPECIFICATIONS.
- DISCONNECT SWITCH. "30/2/30" REPRESENTS "AMPS/POLES/FUSE SIZE". A FUSE SIZE OF "NF" INDICATES A NON-FUSED DISCONNECT. PROVIDE NEMA 3R ENCLOSURES FOR ALL OUTSIDE DISCONNECTS.
- SURFACE MOUNTED ELECTRICAL PANELBOARD. SEE POWER RISER DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION.
- WIRE ARC. ARROWS REPRESENT HOMERUNS. HASHMARKS REPRESENT CONDUCTORS (LONG HASHMARK IS NEUTRAL). GROUND CONDUCTOR NOT SHOWN.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AHU AIR HANDLING UNIT
- CRI COLOR RENDERING INDEX
- CU CONDENSING UNIT
- EWC ELECTRIC WATER COOLER
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT CIRCUIT INTERRUPT
- GRS GALVANIZED RIGID STEEL
- NIC NOT IN CONTRACT
- NL NIGHTLIGHT
- RL RELOCATED
- RTU ROOF TOP UNIT
- TYP. TYPICAL
- UNO UNLESS NOTED OTHERWISE
- UP UNDERGROUND PRIMARY
- US UNDERGROUND SECONDARY
- LC LIGHTING CONTROLS
- TC TIME CLOCK
- WP WEATHER PROOF (& GFI)

LINE TYPES

- UP ——— UP ——— UP ——— UNDERGROUND PRIMARY CONDUCTORS
- US ——— US ——— US ——— UNDERGROUND SECONDARY CONDUCTORS
- OHP ——— OHP ——— OVERHEAD PRIMARY CONDUCTORS
- OHS ——— OHS ——— OVERHEAD SECONDARY CONDUCTORS

PROJECT GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE ELECTRICAL PORTION OF THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO: TEMPORARY ELECTRIC SERVICE AND DISTRIBUTION FOR CONSTRUCTION PURPOSES; PERMANENT BUILDING SERVICE ENTRANCE EQUIPMENT AND FEEDER DISTRIBUTION; TRENCH EXCAVATION, PUMPING, BACKFILLING AND COMPACTION FOR ALL UNDERGROUND ELECTRICAL WORK; BUILDING INTERIOR PANELBOARDS AND RELATED FEEDER AND BRANCH CIRCUITS; ELECTRICAL DISCONNECTS, DEVICES, BOXES, SWITCHES, AND LIGHTING FIXTURES; RACKS, PATCH PANELS, CABLING, CONDUITS AND OUTLETS FOR TELEPHONE AND COMPUTER SYSTEMS; AND COORDINATION WITH THE ELECTRIC UTILITY, OTHER CONTRACTORS, THE ARCHITECT AND OWNER.
- FOR THE PURPOSES OF THIS CONTRACT, THE TERM "PROVIDE" SHALL MEAN TO PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, AND SUPERVISION REQUIRED TO FURNISH AND INSTALL.
- APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES, AND PAY FOR ALL FEES ASSOCIATED WITH ESTABLISHING ELECTRIC AND TELEPHONE SERVICE.
- THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, NECA STANDARD OF INSTALLATION, AND FLORIDA BUILDING CODE, EDITIONS ADOPTED BY AHJ, SHALL ESTABLISH THE MINIMUM REQUIREMENTS FOR INSTALLATION, BUT IN ADDITION, ALL WORK SHALL ALSO COMPLY WITH OSHA, STATE, COUNTY, LOCAL OR MUNICIPAL CODE REQUIREMENTS AND THE RULES OF THE LOCAL ELECTRIC UTILITY. IN CASE OF CONFLICTS, CONFORM TO THE MORE STRINGENT REQUIREMENTS. TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 553 AND 633 OF THE FLORIDA STATUTES. IN CASES OF CONFLICTS BETWEEN THESE DESIGN DOCUMENTS AND REQUIREMENTS OF ANY OF THE ABOVE CRITERIA, CONTACT THE ENGINEER BEFORE PROCEEDING.
- ALL MATERIALS USED IN THIS PROJECT SHALL BE NEW AND UNDERWRITERS' LABORATORIES (UL) LISTED AND LABELED, UNLESS OTHERWISE NOTED.
- SUBMIT SHOP DRAWINGS, CATALOG SHEETS, OR OTHER DESCRIPTIVE DATA WITH SUFFICIENT INFORMATION TO ESTABLISH DESIGN, QUALITY AND PERFORMANCE. SUBMIT DATA FOR: DISCONNECTS, WIRING DEVICES, WIRE, CONDUIT, LIGHT FIXTURES, TIME SWITCHES, LIGHTING CONTROL PANEL AND SURGE SUPPRESSION DEVICES. PROVIDE SUBMITTALS AS A SINGLE PACKAGE.
- PROVIDE EQUIPMENT NAMEPLATES FOR ALL EQUIPMENT, INCLUDING DISCONNECTS. NAMEPLATES SHALL BE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND. USE 1/8 INCH LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS AND 1/4 INCH LETTERS FOR GROUPED EQUIPMENT AND LOADS. NAMEPLATES FOR SWITCHBOARDS AND PANELBOARDS SHALL INDICATE THE SOURCE OF POWER PER NEC 408.4(B). FOR DEDICATED CIRCUIT POWER OUTLETS, PROVIDE EMBOSSED ADHESIVE TAPE, WITH 1/8 INCH BLACK LETTERS ON CLEAR BACKGROUND. LABEL DEDICATED OUTLETS WITH NAME OF LOAD, PANEL AND CIRCUIT NUMBER. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING LABELS FOR ELECTRICAL EQUIPMENT PER NEC 110.16. ALSO, PROVIDE LABEL WITH AVAILABLE FAULT CURRENT AND DATE FOR SERVICE EQUIPMENT PER THE NEC.
- USE ONLY COPPER BUILDING WIRE WITH TYPE THWN/THHN (DUAL RATED) OR XHHW INSULATION (GROUND WIRES MAY BE TYPE TW FOR CIRCUITS RATED 100A OR LESS OR TYPE THW FOR CIRCUITS OVER 100A). WIRE SHALL BE SIZED AND COLOR CODED PER THE NEC. CONDUCTORS FOR POWER AND LIGHTING CIRCUITS SMALLER THAN #12 AWG ARE NOT PERMITTED.
- ALL CIRCUITS SHALL BE RUN IN CONDUIT AND SHALL CONTAIN SEPARATE GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122. WITH THE EXCEPTION OF CONDUIT IN AIR PLENUMS, FINAL CONNECTIONS (LESS THAN 6 FEET) TO ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE METAL CONDUIT (WITH GROUNDING CONDUCTOR). FLEXIBLE METAL CONDUIT (WITH GROUNDING CONDUCTOR) SHALL ONLY BE USED FOR FINAL CONNECTION (LESS THAN 6 FEET) TO DROP-IN LIGHT FIXTURES. NONMETALLIC FLEX CONDUIT OR TUBING SHALL NOT BE USED. MINIMUM SIZE FOR CONDUIT SHALL BE 1/2". UNLESS NOTED OTHERWISE, ALL CONDUIT SHALL BE CONCEALED. INSTALL ABOVEGROUND CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING LINES. PROVIDE PULLSTRING FOR ALL EMPTY CONDUITS.
- FOR EMT CONDUIT, MAXIMUM SIZE SHALL BE 2 INCHES. EMT CONDUIT SHALL NOT BE USED BELOW GRADE, OUTSIDE, IN CONCRETE, WHERE EXPOSED TO DAMAGE, OR FOR EXPOSED WORK IN AREAS WITHIN 8 FEET OF FLOOR. PROVIDE STEEL COMPRESSION TYPE FITTINGS.
- PVC CONDUIT SHALL ONLY BE USED IN THE GROUND OR CONCRETE SLAB AND SHALL BE SCHEDULE 40. ALL ELLS TURNING UP OUT OF THE EARTH OR CONCRETE SLAB SHALL BE ASPHALTUM OR PVC COATED RIGID GALVANIZED STEEL CONDUIT.
- SEE POWER RISER DIAGRAM AND PANEL SCHEDULES, SHEETS E-5 AND E-6, FOR SIZE OF ALL CONDUCTORS AND CONDUIT.
- NO MORE THAN 3 PHASE CONDUCTORS (ON ALTERNATING HOT LEGS) SHALL BE COMBINED IN ONE HOMERUN CONDUIT. WITH THE EXCEPTION OF CIRCUITS FOR SYSTEMS FURNITURE, PROVIDE A DEDICATED FULLSIZE NEUTRAL FOR CIRCUITS REQUIRING A NEUTRAL.
- EXCEPT AS NOTED OTHERWISE, ALL ELECTRICAL DEVICE AND JUNCTION BOXES SHALL BE MADE OF GALVANIZED STEEL. BOXES FOR WEATHERPROOF AND WATERTIGHT APPLICATIONS OR IN CONCRETE SHALL BE MADE OF CAST METAL. PROVIDE PULLBOXES AND HANDHOLES AS NECESSARY FOR THE CIRCUITS SHOWN.
- WITH THE EXCEPTION OF DEVICES ABOVE COUNTERS, MOUNT RECEPTACLES AND DATA OUTLETS 18" A.F.F. (TO CENTER OF OUTLET) UNLESS NOTED OTHERWISE. MOUNT SWITCHES AT NO MORE THAN 48" A.F.F. (TO TOP OF BOX) UNLESS NOTED OTHERWISE. IF THERE ARE OBSTRUCTIONS (I.E. A SERVICE COUNTER), MOUNT SWITCHES AT NO MORE THAN 44" A.F.F. (TO TOP OF SWITCH HANDLE). SEE SECTION 308 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN FOR MORE INFORMATION. CONFORM TO ALL AMERICANS WITH DISABILITY ACT (ADA) REQUIREMENTS.
- PENETRATE ANY FIRE RATED WALLS, CEILINGS, AND FLOORS WITH FIRE STOPPING MATERIALS IN ACCORDANCE WITH FLORIDA BUILDING CODE REQUIREMENTS. PENETRATIONS OF ALL FIRE RATED ASSEMBLIES SHALL BE MADE IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY'S UL LISTING, AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ANY FIRE WALLS, CEILINGS, AND FLOORS.
- UNLESS NOTED OTHERWISE, ALL MOTORS, INTEGRAL STARTERS, CONTROL AND MONITORING DEVICES (INCLUDING WIRE AND CONDUIT FOR CONTROL CIRCUITS), TIMERS, RELAYS, PILOT DEVICES AND OTHER REQUIRED CONTROL COMPONENTS FOR MECHANICAL SYSTEMS WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- UNLESS NOTED OTHERWISE, MAKE POWER WIRING CONNECTIONS TO ALL WATER HEATERS, PUMPS, MACHINERY, APPLIANCES, WATER COOLERS, HVAC EQUIPMENT AND OTHER ELECTRICALLY-OPERATED EQUIPMENT AS INDICATED OR AS REQUIRED. FURNISH AND INSTALL DISCONNECT SWITCHES, STARTERS AND PROTECTIVE DEVICES AS INDICATED ON THE DRAWINGS, EXCEPT FOR ITEMS FURNISHED WITH INTEGRAL DISCONNECT SWITCHES AND/OR STARTERS (SEE MECHANICAL AND PLUMBING SCHEDULES).
- DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. REVIEW ARCHITECTURAL, CIVIL, MECHANICAL, AND PLUMBING DRAWINGS AND COORDINATE WITH OTHER CONTRACTORS TO CONFIRM EXACT LOCATION FOR LIGHTING FIXTURES, ELECTRICAL DEVICES, WIRING AND EQUIPMENT AND AVOID INTERFERENCES BETWEEN RACEWAYS, DUCTS, PIPING, AND STRUCTURAL MEMBERS. RELOCATE EQUIPMENT AS NECESSARY TO MAINTAIN NEC WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS.
- CONTRACTOR SHALL CONFORM WITH ALL OSHA STANDARDS AND NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REQUIREMENTS FOR ELECTRICAL SAFETY, INCLUDING PROPER LOCK-OUT / TAG-OUT PROCEDURES AND WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE). CONTRACTOR'S EMPLOYEES SHALL HAVE RECEIVED NFPA 70E ARC FLASH TRAINING.
- CONFIRM WITH THE GENERAL CONTRACTOR THAT NO ASBESTOS, LEAD PAINT, OR OTHER HAZARDOUS MATERIALS EXIST IN THE BUILDING BEFORE STARTING WORK. IF ANY SUSPICIOUS MATERIAL AREA FOUND DURING DEMOLITION, STOP WORK IMMEDIATELY AND CONTACT GENERAL CONTRACTOR.
- THE ABOVE NOTES APPLY TO ALL ELECTRICAL DRAWINGS.
- THE USE OF MC, MC-PCS, MC-HCF IS ALLOWED ON THIS PROJECT SUBJECT TO THE LIMITATIONS SET FORTH BELOW AND ACCORDING TO PARAMETERS SET FORTH IN NEC 70 ARTICLE 330.
- MC CABLE CAN BE USED TO CONNECT LUMINAIRES INSTALLED WITHIN AN ACCESSIBLE CEILING TO A JUNCTION BOX WHEN THE LENGTH DOES NOT EXCEED SIX FEET. IN SUCH INSTALLATIONS, THE MC CABLE FITTINGS SHALL BE PERMITTED AS MEANS OF CABLE SUPPORT.
- MC CABLE CAN BE USED TO CONNECT DEVICES INSTALLED CONCEALED INSIDE A WALL CAVITY.
- MC CABLE CAN BE USED TO CONNECT THE LAST DEVICE IN A CIRCUIT TO A HOMERUN JUNCTION BOX MOUNTED ON OR ADJACENT TO THE FRAMING TOP PLATE.
- MC CABLE USE SHALL BE LIMITED TO #12, #10 AND #8 COPPER CONDUCTORS.
- MC CABLE SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND FRAMING MEMBERS.
- MC CABLE SHALL BE USED FOR BRANCH CIRCUITS ONLY. HOMERUNS SHALL BE IN CONDUIT.
- MC CABLE SHALL BE PROTECTED WHEN INSTALLED THROUGH OR RUN PARALLEL TO FRAMING MEMBERS SO THAT THE NEAREST OUTSIDE SURFACE IS AT LEAST 1 1/4" FROM THE NEAREST EDGE OF THE FRAMING MEMBER. WHEN THIS DISTANCE CAN NOT BE MAINTAINED, THE CABLE SHALL BE PROTECTED FROM SCREW OR NAIL PENETRATION BY A STEEL PLATE, SLEEVE OR EQUIVALENT OF AT LEAST 1/16" THICK.
- THE RADIUS OF INNER BEND IN CORRUGATED SHEATH MC CABLE SHALL BE GREATER THAN 4" FOR MC CABLE CONTAINING #12 CONDUCTORS AND 4.5" FOR MC CABLE CONTAINING #10 CONDUCTORS.
- MC CABLES SHALL BE SUPPORTED AT LEAST EVERY 6' & WITHIN 12" OF EVERY BOX, FITTING OR OTHER TERMINATION.
- MC CABLE SHALL BE REPLACED WHEN THE CORRUGATED SHEATH HAS SEPARATED AND IS NO LONGER INTERLOCKED.
- MC-HCF MEDICAL GRADE MC CABLE SHALL BE USED IN ALL AREAS.
- MC-OCF LUMINARY CABLE SHALL BE USED WHEN CONNECTING A DIMMING DEVICE TO DIMMABLE LUMINAIRES.
- MC IS NOT APPROVED FOR LIFE SAFETY/CRITICAL CIRCUITS.

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009993  
Florida License No.: AA26000952

ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: ELECTRICAL LEGEND & PROJECT GENERAL NOTES

NO.	DATE	REVISION	

**DRAWN BY:** JAG  
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**DATE:** 03-16-23

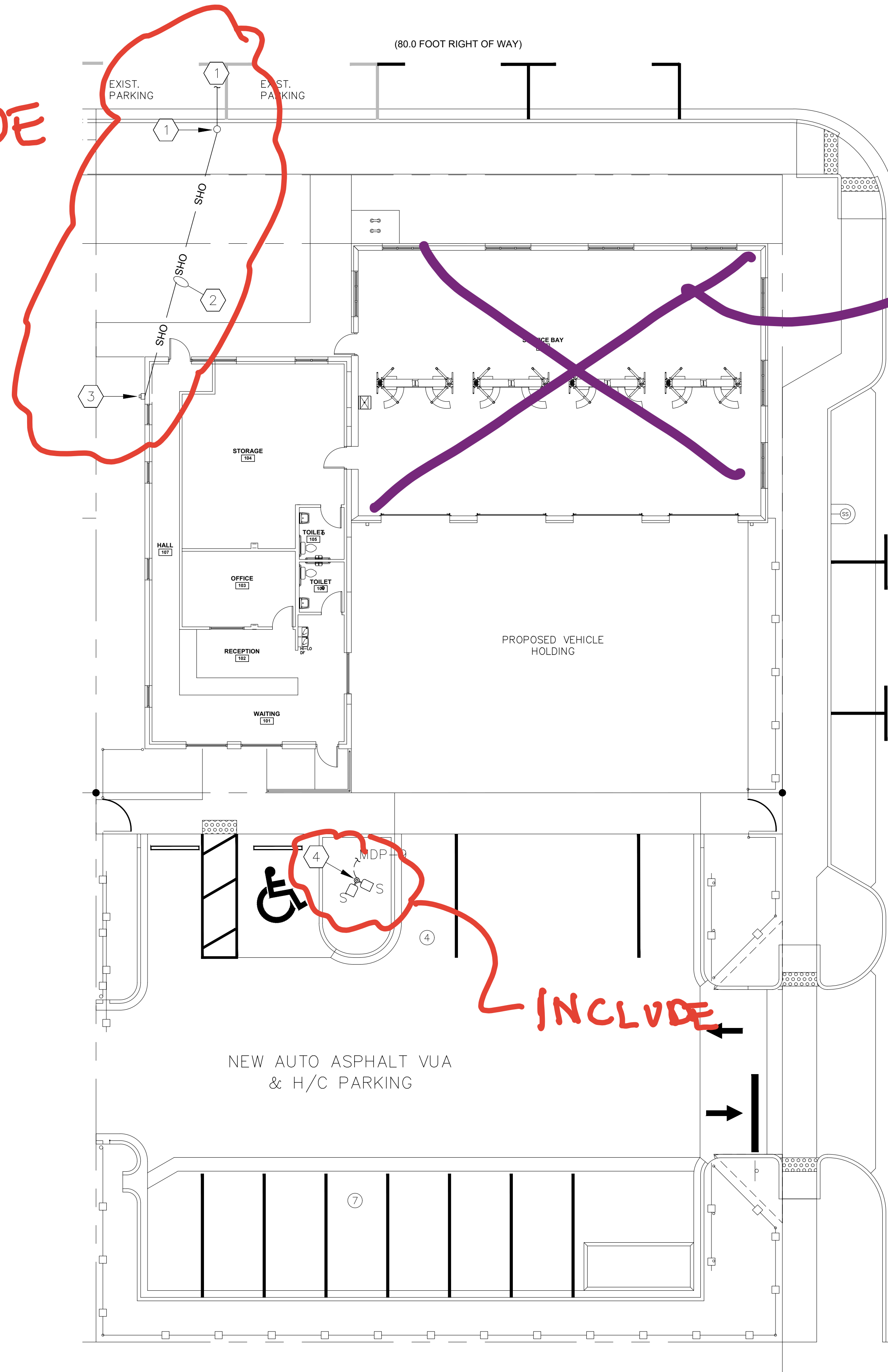
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**E-1**  
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INCLUDE

EXCLUDE

INCLUDE



**ELECTRICAL SITE PLAN**  
 SCALE: 3/32"=1'-0"

**GENERAL NOTES**

1. ALL WORK ASSOCIATED WITH ELECTRIC SERVICE SHALL BE DONE IN ACCORDANCE WITH THE LOCAL UTILITY'S RULES AND REGULATIONS FOR ELECTRIC SERVICE, LATEST EDITION. LOCATION AND CONFIGURATION OF ELECTRICAL SERVICE ARE TENTATIVE. THE CONTRACTOR SHALL PAY ALL ELECTRIC FEES NECESSARY TO ESTABLISH ELECTRICAL SERVICE. CONTACT LOCAL UTILITY, BEFORE PURCHASING ANY MATERIALS AND TO COORDINATE ALL WORK.
2. ROUTING OF UNDERGROUND CONDUITS SHOWN IS INTENDED TO BE DIAGRAMMATIC. HAND DIG AND ROUTE CONDUIT AS NECESSARY TO AVOID STRUCTURES, TREES, UNDERGROUND UTILITIES, ETC. PROVIDE PULLBOXES AS NECESSARY AND/OR REQUIRED TO AID IN PULLING CONDUCTORS.
3. ELECTRICAL SITE PLAN IS FOR ORIENTATION PURPOSES ONLY. SEE CIVIL SITE PLAN FOR LOCATION OF STRUCTURES, CURBING, PAVED AREA, EXISTING UTILITIES, ETC. LOCATION SHOWN FOR EXTERIOR ELECTRICAL EQUIPMENT IS ONLY APPROXIMATE. CONFIRM EXACT LOCATION PER ARCHITECTURAL AND CIVIL PLAN.
4. AFTER CONSTRUCTION, RETURN SURROUNDING AREA, INCLUDING GRASS, CURBS, AND PAVEMENT TO ORIGINAL CONDITIONS.
5. FOR TELECOMMUNICATIONS SERVICE, PROVIDE 1-3" PVC SCHED. 40 CONDUIT AND PULL WIRE FROM THE TELEPHONE BACKBOARD TO THE PROPERTY LINE (NOT SHOWN). REPAIR ALL DAMAGE TO SITE PER NOTE 4 ABOVE. CONFIGURATION DESCRIBED IS TENTATIVE. COORDINATE EXACT LOCATION OF EQUIPMENT AND CONDUIT AND REQUIREMENTS WITH SERVICE PROVIDER.

**KEY NOTES** ⓧ

1. APPROXIMATE LOCATION OF RISER POLE. POLE MOUNTED TRANSFORMER ACROSS ARLINGTON ROAD. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
2. OVERHEAD SECONDARY FEEDER. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
3. PROVIDE UTILITY APPROVED METER. SEE POWER RISER DIAGRAM ON SHEET E-5 FOR MORE INFORMATION.
4. PROVIDE 30' CONCRETE POLE. SEE LIGHT POLE FOUNDATION DETAILS ON SHEET E-7. MOUNTING HEIGHT FOR POLE LIGHT FIXTURES SHALL BE 25' AFG (TYP.).

CAREN M. DOHERTY, P.E.  
 FL. P.E. #55021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
 370 15th Ave S, Units A & B  
 Jacksonville Beach, FL 32250  
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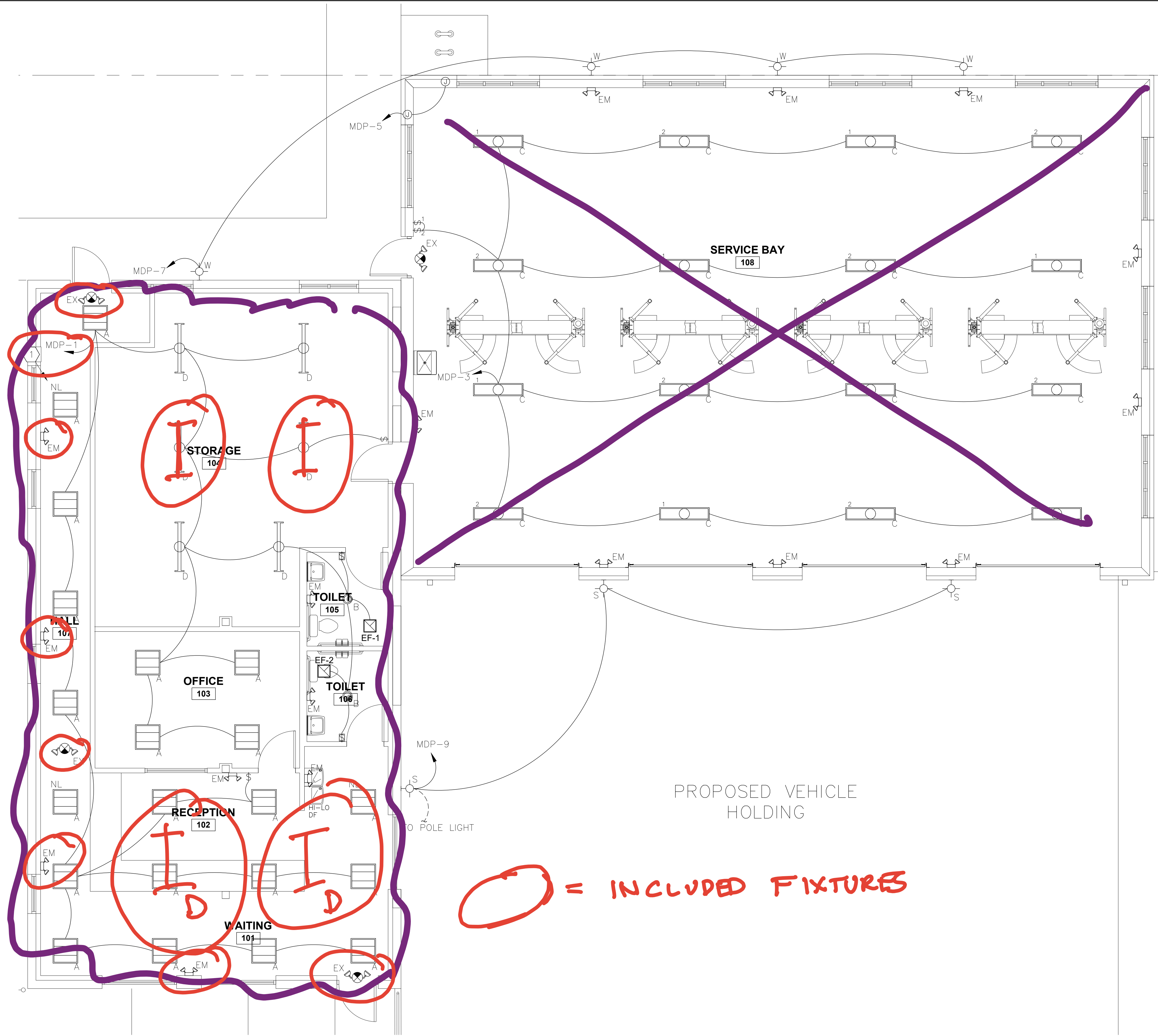
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SHEET TITLE: ELECTRICAL SITE PLAN	
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**E-2**  
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**LIGHTING PLAN**  
SCALE: 1/4"=1'-0"

**GENERAL NOTES**

- SOME JUNCTION BOXES AND FLEX CONDUIT NOT SHOWN FOR CLARITY. PROVIDE JUNCTION BOXES AND FLEX CONDUIT AT FIXTURES WHERE APPROPRIATE.
- SWITCHES WHICH ARE BACK-TO-BACK ON COMMON WALLS SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
- PROVIDE POWER TO ALL EMERGENCY DRIVERS BUILT INTO LIGHT FIXTURES, STANDALONE EMERGENCY LIGHT FIXTURES AND EXIT SIGNS AHEAD OF ANY SWITCHING ON THE SAME BRANCH CIRCUIT AS NORMAL LIGHTING FOR AREA SERVED.
- WITH THE EXCEPTION OF AREAS CONTROLLED BY THE USE OF TIME CLOCKS, EQUIPMENT ROOMS, STAIRWELLS, AND ANY OTHER AREA WHERE SUDDEN LOSS OF LIGHT COULD CAUSE A SAFETY CONCERN, PROVIDE OCCUPANCY SENSORS IN ALL SPACES IN ACCORDANCE WITH THE 2020 FLORIDA ENERGY CODE TO SATISFY THE REQUIREMENT FOR AUTOMATIC LIGHTING CONTROLS.
- ALL LIGHT FIXTURE DRIVERS SHALL HAVE AN "A" SOUND RATING.
- SUPPORT FIXTURES (2 X 4 FOOT AND SMALLER) TO BE RECESSED IN REMOVABLE TILE CEILINGS (LAY-IN TYPE) FROM THE T-BAR TILE SUPPORT AND CONNECT TO REMOTE MOUNTED 4" SQUARE (MINIMUM SIZE, CONFORM TO NEC) JUNCTION BOXES WITH APPROVED SIX FOOT LONG, 3/8" FLEXIBLE CONDUIT "FIXTURE WHIP" WITH GROUNDING CONDUCTOR BONDED BETWEEN CONDUIT SYSTEM AND FIXTURE.
- PROVIDE ALL REQUIRED HARDWARE AS NECESSARY TO PROPERLY INSTALL LIGHT FIXTURES.
- PROVIDE INSULATED CEILING (I.C.) RATED FIXTURES WHERE RECESSED INCANDESCENT, COMPACT FLUORESCENT, OR LOW VOLTAGE LIGHT FIXTURES COME INTO DIRECT CONTACT WITH INSULATION. PROVIDE U.L. FIRE RATED LIGHT FIXTURES FOR FIRE RATED CEILINGS.
- COORDINATE LOCATION OF LIGHT FIXTURES WITH OTHER TRADES PRIOR TO INSTALLATION.
- IMPORTANT NOTE: FIXTURE LOCATIONS AND QUANTITIES SHOWN ARE AS REQUIRED TO MEET 2020 FLORIDA BUILDING CODE REQUIREMENTS FOR WATTS PER SQUARE FOOT. TASK LIGHTING MAY BE REQUIRED TO MEET MINIMUM RECOMMENDED ILLUMINATION LEVELS PER IES STANDARDS.
- IMPORTANT NOTE: CONTRACTOR SHALL PROVIDE LIGHTING FUNCTIONALITY TEST PER THE 2020 FLORIDA ENERGY CODE C408.3 FROM AN APPROVED PARTY. DOCUMENTS CERTIFYING THE LIGHTING CONTROLS MEETS THE PERFORMANCE CRITERIA OF SECTION 405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF THE CERTIFICATE OF OCCUPANCY.

**KEY NOTES**

- NIGHT LIGHT FIXTURE. ALL FIXTURES LABELED 'NL' SHALL BE POWERED FROM AN UNSWITCHED CIRCUIT AND REMAIN ON 24 HOURS PER DAY (TYP.).

O = INCLUDED FIXTURES

CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

**DSIAE**  
DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
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**JOHN'S AUTOMOTIVE**  
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JACKSONVILLE, FLORIDA 32211

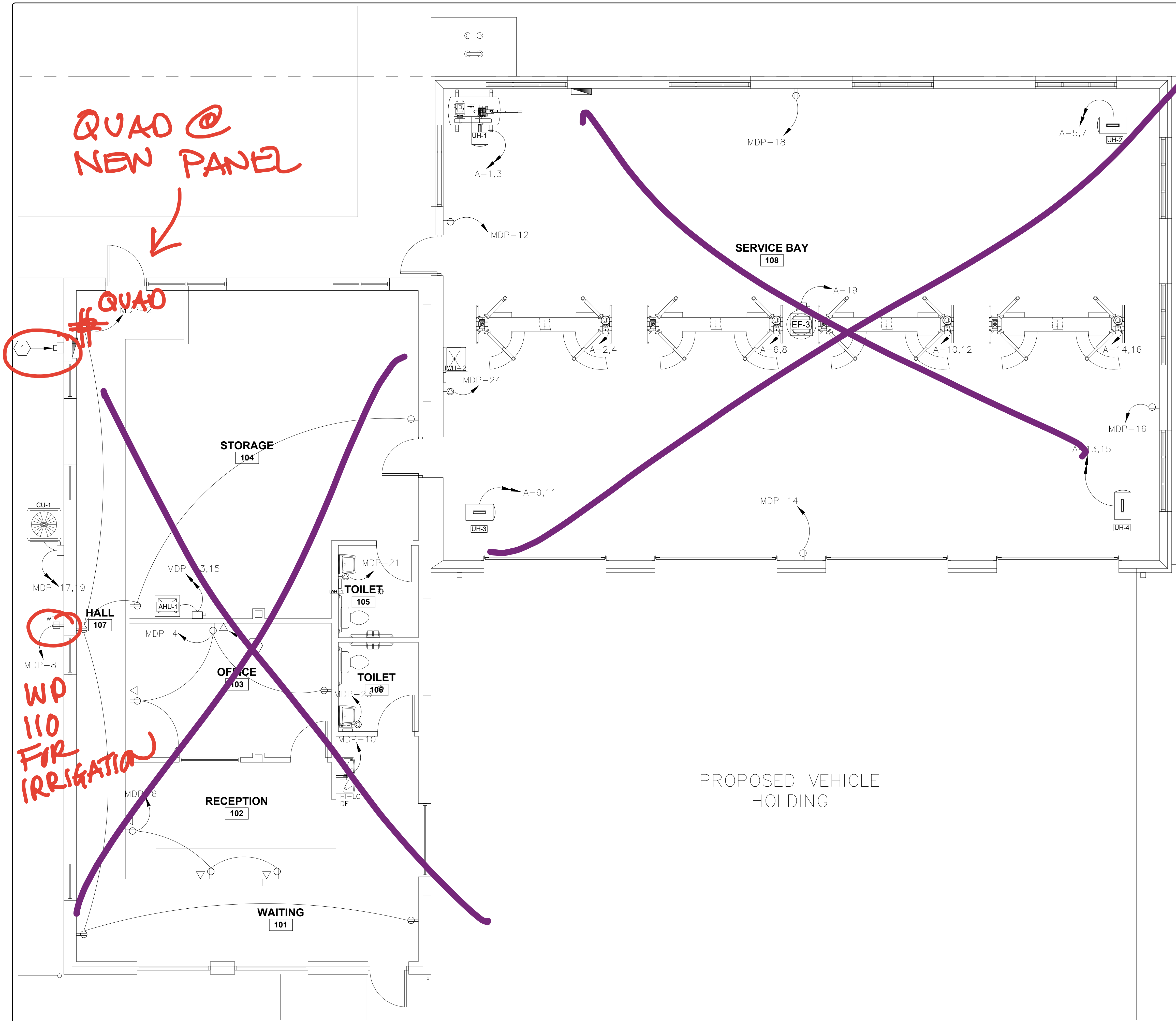
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SHEET  
**E-3**  
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**POWER PLAN**  
SCALE: 1/4"=1'-0"



**GENERAL NOTES**

1. SIZE OF DISCONNECTS, FUSES, CIRCUIT BREAKERS, WIRING AND CONDUIT FOR HVAC AND OTHER MECHANICAL EQUIPMENT IS BASED ON THE MECHANICAL BASIS OF DESIGN. IF THE ELECTRICAL DATA VARIES FROM MECHANICAL SCHEDULES, RESIZE THE RELATED ELECTRICAL COMPONENTS PER THE NEC AND MANUFACTURER'S RECOMMENDATIONS AND SUBMIT FOR APPROVAL.
2. PROVIDE HEATING, AIR CONDITIONING, AND REFRIGERATION (HACR) RATED CIRCUIT BREAKERS FOR ALL CONDENSING UNITS AND AIR HANDLING UNITS.
3. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
4. CONFIRM LOCATION, MOUNTING HEIGHT, AND ELECTRICAL REQUIREMENTS FOR ALL SPECIAL PURPOSE AND DEDICATED OUTLETS WITH OWNER. CONFIRM EXACT LOCATION FOR OUTLETS NEAR CABINETS WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CABINET PROVIDER. ALSO, CONFIRM LOCATION AND MOUNTING HEIGHT OF ALL PHONE AND DATA OUTLETS WITH OWNER.
5. SAFETY SWITCHES SHALL BE HEAVY DUTY, FUSED OR NON-FUSED AS INDICATED, QUICK-MAKE AND QUICK-BREAK, HORSEPOWER RATED, MINIMUM RATING 250 OR 600 VOLTS A.C., AS APPROPRIATE.

**KEY NOTES** ⓧ

1. UTILITY APPROVED METER. SEE POWER RISER DIAGRAM FOR MORE INFORMATION.
2. PROVIDE DATA OUTLET, BACK BOX, AND CONDUIT WITH PULLSTRING. STUB UP CONDUIT ABOVE CEILING (TYP. FOR ALL DATA OUTLETS). SEE DATA RISER DETAIL ON SHEET E-7 FOR MORE INFORMATION.

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

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Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
Florida License No.: AA26000952

**ADDITION AND REMODEL**  
**JOHN'S AUTOMOTIVE**

5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

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**E-4**  
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**POWER RISER DIAGRAM**  
SCALE: NTS

**GENERAL NOTES:**

1. UNDERGROUND CONDUIT MAY BE SCHEDULE 40 PVC (VERSUS GRS). TRANSITIONS TO ABOVEGROUND SHALL BE MADE WITH PVC COATED RIGID STEEL OR WITH RIGID STEEL CONDUIT COATED WITH 2 COATS OF ASPHALTIC MASTIC. THIS NOTE APPLIES TO ALL CONDUITS SHOWN ON THIS RISER DIAGRAM.

**KEY NOTES** (XX)

- EXISTING PRIMARY RISER POLE AND POLE MOUNTED TRANSFORMERS TO REMAIN.
- EXISTING 120/240V SINGLE PHASE, 3 WIRE OVERHEAD SERVICE DROP FROM EXISTING POLE MOUNTED TRANSFORMER TO BUILDING TO REMAIN.
- REPLACE EXISTING WEATHERHEAD AND RGS CONDUIT TO BE REPLACED WITH NEW U.L. LISTED WEATHERHEAD AND 3" RGS CONDUIT MAST. MAINTAIN MINIMUM VERTICAL CLEARANCES PER NEC ARTICLE 230.
- POINT OF CONNECTION FOR ELECTRICAL SERVICE. PROVIDE 3-500 KCMIL CONDUCTORS IN SERVICE MAST DESCRIBED ABOVE. THE THE ELECTRICAL CONTRACTOR SHALL PROVIDE 5" OF EXCESS CONDUCTORS AT THE WEATHERHEAD TO ALLOW THE UTILITY TO CONNECT TO THE SERVICE DROP AND FORM A DRIP LOOP.
- PROVIDE UTILITY APPROVED METER SOCKET WITH BYPASS IN NEMA 3R ENCLOSURE. INSTALL UTILITY FURNISHED METER. PROPERLY GROUND METER SOCKET PER NEC SECTION 250 AND LOCAL STANDARDS.
- PROVIDE #2/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR. BOND TO GROUND ROD AND ALL OTHER AVAILABLE GROUND ELECTRODES, PER GROUNDING DETAIL, SHEET E-7, NEC SECTION 250, LOCAL CODES, AND SPECIFICATIONS.
- PROVIDE 4#4/0 AWG CONDUCTORS AND #2 AWG GROUND IN 3" CONDUIT TO REMAIN.

CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

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**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
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SHEET TITLE: POWER RISER DIAGRAM	
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SHEET  
**E-5**  
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EXCLUDE  
EXC  
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LIGHTING FIXTURE SCHEDULE									
MARK	MANUF.	CATALOG NUMBER	LAMPS TYPE	VOLT.	MOUNTING	WATTS	NOTES	DESCRIPTION / INSTALLATION	
<del>A</del>	<del>COLUMBIA</del>	<del>CB12Z-ALSUS-EDD-KALS-2PK</del>	<del>LED CRI 80+ 4000K (3000 LUMENS)</del>	<del>MVOLT</del>	<del>RECESSED</del>	<del>24 W</del>		<del>2x2 LED FLAT PANEL LIGHT FIXTURE WITH DIMMABLE DRIVER</del>	
<del>B</del>	<del>DEFSCOLITE</del>	<del>LRP-M-100-080-11885</del>	<del>LED CRI 80+ 4000K (3000 LUMENS)</del>	<del>MVOLT</del>	<del>RECESSED</del>	<del>10 W</del>		<del>6" LED CAN LIGHT WITH DIMMABLE DRIVER AND SEMI-SPECULAR FINISH.</del>	
<del>C</del>	<del>BEAON</del>	<del>VP-1-160L-75-4K8-2-UNV-A3-BLT</del>	<del>LED CRI 80+ 4000K (12000 LUMENS)</del>	<del>MVOLT</del>	<del>RECESSED</del>	<del>84 W</del>		<del>LINEAR HIGH BAY LED LIGHT FIXTURE.</del>	
D	COLUMBIA	CSL4-LSCS (4 FA)	LED CRI 80+ 4000K (4274 LUMENS)	MVOLT	RECESSED	30 W		4" LED STRIP LIGHT.	
EM	COMPASS	CU2RCS	LED	MVOLT	SURFACE	1 W		EMERGENCY LIGHT WITH SELF-DIAGNOSTIC AND 90 MINUTE BATTERY BACKUP.	
EX	COMPASS	CCRRC	LED	MVOLT	SURFACE	1 W		COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH SELF-DIAGNOSTIC AND 90 MINUTE BATTERY BACKUP.	
S	BEAON	VP-1-160L-75-4K8-2-UNV-A3-BLT	LED	MVOLT	POLE	72 W	9	LED ARE LIGHT	
<del>S</del>	<del>BEAON</del>	<del>SCH6-WL-LED-UWM-BZ-4000L-DIM10-MVOLT-</del>	<del>LED CRI 80+ 4000K (12000 LUMENS)</del>	<del>MVOLT</del>	<del>POLE</del>	<del>72 W</del>	<del>9</del>	<del>OUTDOOR RATED WALL MOUNTED ARCHITECTURAL LED LIGHT</del>	

**NOTES:**

- UNLESS INDICATED OTHERWISE, MANUFACTURERS AND CATALOG NUMBERS LISTED IN LIGHTING FIXTURE SCHEDULE ARE INTENDED TO ESTABLISH STANDARDS OF DESIRED DESIGN OR QUALITY AND SHALL BE THE BASIS OF BID. NO SUBSTITUTIONS WILL BE CONSIDERED PRIOR TO BID. THE SUCCESSFUL CONTRACTOR SHALL PROVIDE SUBMITTALS WITH PHOTOMETRICS AND DETAILED SPECIFICATION SHEETS AND ACCEPT TOTAL RESPONSIBILITY FOR PROVIDING FIXTURES OTHER THAN THE SPECIFIED PRODUCTS. SAMPLES MAY BE REQUESTED PRIOR TO REVIEW.
- SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS FOR WALL MOUNTED FIXTURES.
- CONFIRM FIXTURE COLORS WITH OWNER.
- FOR RECESSED CAN LIGHTS, IF LIGHT FIXTURE IS TOUCHING INSULATION, MODIFY CATALOG NUMBER SHOWN ABOVE AS NECESSARY TO PROVIDE INSULATED CEILING (I.C.) RATED LIGHT FIXTURE OR PROVIDE NECESSARY PROTECTION FROM INSULATION, PER AHJ.
- MODIFY CATALOG NUMBER AS NECESSARY FOR ALL RECESSED FIXTURES IN AREAS WITH HARD CEILING.
- CONFIRM ALL LIGHT FIXTURES WITH OWNER PRIOR TO PURCHASING.
- COORDINATE LIGHT OUTPUT WITH OWNER.
- FIXTURES SHOWN MOUNTED TO WALL/SURFACE SHALL BE PROVIDED WITH WALL MOUNT BRACKET.
- NOTES THAT DO NOT APPEAR IN NOTES COLUMN OF THE SCHEDULE APPLY TO ALL FIXTURE TYPES.

LOCATION: HALL 107  
FED BY: SERVICE

**PANEL - MDP**

TYPE: FLUSH MOUNT, NEMA 1  
MAIN CB: 400A    FRAME: 400A    BUS RATING: 400A  
VOLTAGE: 120/ 240    VOLTS 1 PH, 3 WIRE    TYPE: BOLT-ON  
MINIMUM AIC: 10K

NO.	AMPS TRIP	POLES	WIRE	GRND	COND. (IN)	SERVING	PHASE LOAD (KVA)				SERVING	COND. (IN)	GRND	WIRE	POLES	AMPS TRIP	NO.	
							A	B	A	B								
1	20	1	12	12	1/2	LTS, OFFICE*	0.5		1.2		RECP, GENERAL PURPOSE	1/2	12	12	1	20	2	
3	20	1	12	12	1/2	LTS, SHOP*		1.3	0.8		RECP, OFFICE	1/2	12	12	1	20	4	
5	20	1	12	12	1/2	SIGN*	1.5		0.6		RECP, WAITING DESK	1/2	12	12	1	20	6	
7	20	1	12	12	1/2	LTS, EXTERIOR FRONT*		0.2	0.2		RECP, EXTERIOR	1/2	12	12	1	20	8	
9	20	1	12	12	1/2	LTS, EXTERIOR REAR*	0.4		1.5		RECP, SHOP	1/2	12	12	1	20	10	
11						SPARE			1.5		RECP, SHOP	1/2	12	12	1	20	12	
13	60	2	4	10	3/4	AHU-1	4.4		1.5		RECP, SHOP	1/2	12	12	1	20	14	
15						" "		4.4	1.5		RECP, SHOP	1/2	12	12	1	20	16	
17	50	2	6	10	3/4	CU-1	3.0		25.5		PANEL A					2	225	18
19						" "		3.0	26.3		" "							20
21	30	1	10	10	3/4	IWH TOILET 105	2.4				SPACE							22
23	30	1	10	10	3/4	IWH TOILET 105		2.4	3.6		IWH - EYEWASH	3/4	10	8	1	40	24	
25																		26
27																		28
29																		30
							12.2	11.3	30.3	33.9	TOTAL CONNECTED LOAD:		87.7 KVA					
											TOTAL DEMAND LOAD:		88.7 KVA					

NOTES:  
\*CIRCUIT VIA TIME CLOCK. TIME CLOCK SHALL MEET ALL REQUIREMENTS PER THE 2020 FLORIDA ENERGY CODE.

INCLUDE

LOCATION: SHOP  
FED BY: PANEL MDP

**PANEL - A**

TYPE: SURFACE MOUNT, NEMA 1  
MAIN CB: MLO    FRAME:    BUS RATING: 225A  
VOLTAGE: 120/ 240    VOLTS 1 PH, 3 WIRE    TYPE: BOLT-ON  
MINIMUM AIC: 10K

NO.	AMPS TRIP	POLES	WIRE	GRND	COND. (IN)	SERVING	PHASE LOAD (KVA)				SERVING	COND. (IN)	GRND	WIRE	POLES	AMPS TRIP	NO.	
							A	B	A	B								
1	20	2	12	12	1/2	LIFT 1	1.5		3.8		UH-1	3/4	10	10	2	30	2	
3						" "		1.5	3.8		" "							4
5	20	2	12	12	1/2	LIFT 2	1.5		3.8		UH-2	3/4	10	10	2	30	6	
7						" "		1.5	3.8		" "							8
9	20	2	12	12	1/2	LIFT 3	1.5		3.8		UH-3	3/4	10	10	2	30	10	
11						" "		1.5	3.8		" "							12
13	20	2	12	12	1/2	LIFT 4	1.5		3.8		UH-4	3/4	10	10	2	30	14	
15						" "		1.5	3.8		" "							16
17						SPACE					COMPRESSOR	3/4	10	6	2	50	18	
19	20	2	12	12	1/2	EF-3		0.8	3.6		" "							20
21						SPACE					SPACE							22
23						SPACE					SPACE							24
25						SPACE					SPACE							26
27						SPACE					SPACE							28
29						SPACE					SPACE							30
							6.0	6.8	18.6	18.6	TOTAL CONNECTED LOAD:		50.1 KVA					
											TOTAL DEMAND LOAD:		51.9 KVA					

EXCLUDE

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL CONFIRM CIRCUIT SIZE AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT WITH PROVIDER.
- FOR ALL MECHANICAL EQUIPMENT INFORMATION AND LOCATIONS, SEE MECHANICAL DRAWINGS.

CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

**DISAIE**  
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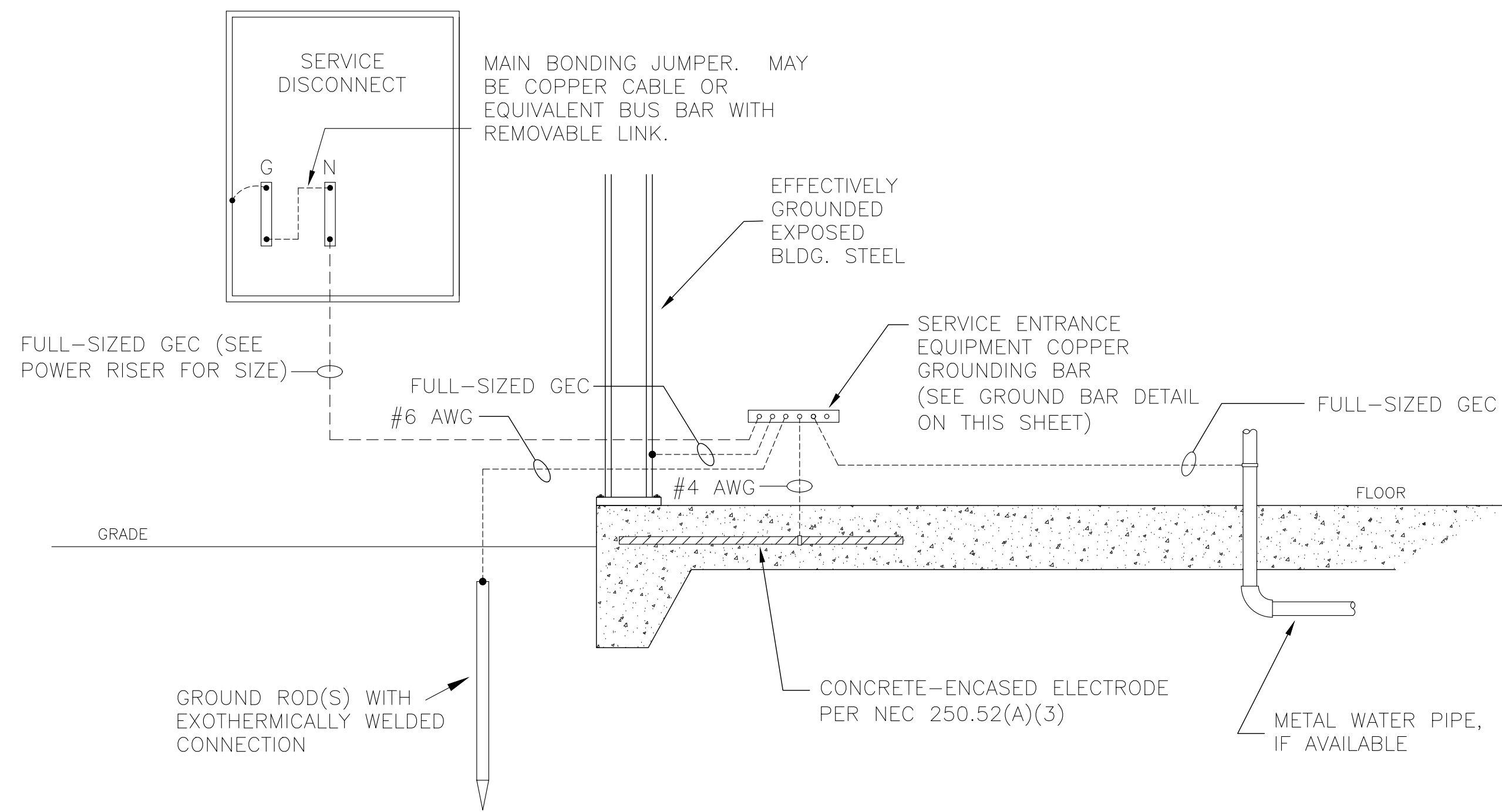
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**JOHN'S AUTOMOTIVE**  
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SHEET TITLE: ELECTRICAL SCHEDULES	
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CHECKED BY: CMD  
DATE: 03-16-23

SHEET  
**E-6**  
OPTION 2

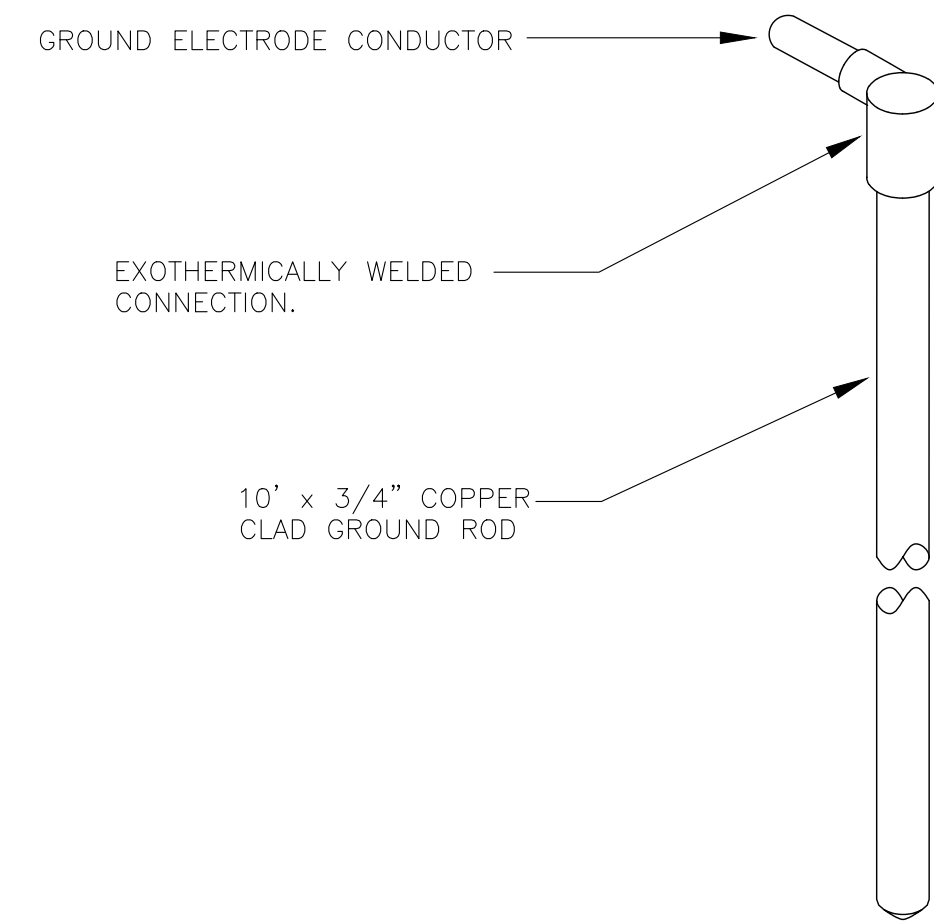
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- NOTES:
1. BOND & GROUND ELECTRICAL SYSTEM PER NEC SECTION 250 AND ALL LOCAL CODES AND STATUTES. TEST GROUND PER SPECIFICATION SECTION 16060 TO ENSURE A MAXIMUM RESISTANCE TO GROUND OF 10 OHMS. ADD ADDITIONAL GROUND RODS AS NECESSARY TO MEET THIS REQUIREMENT.
  2. WHEN CONDUCTORS ARE SUBJECT TO DAMAGE THEY SHALL BE PROTECTED PER NEC.
  3. ALL GROUND ELECTRODE CONDUCTORS SHALL BE COPPER.

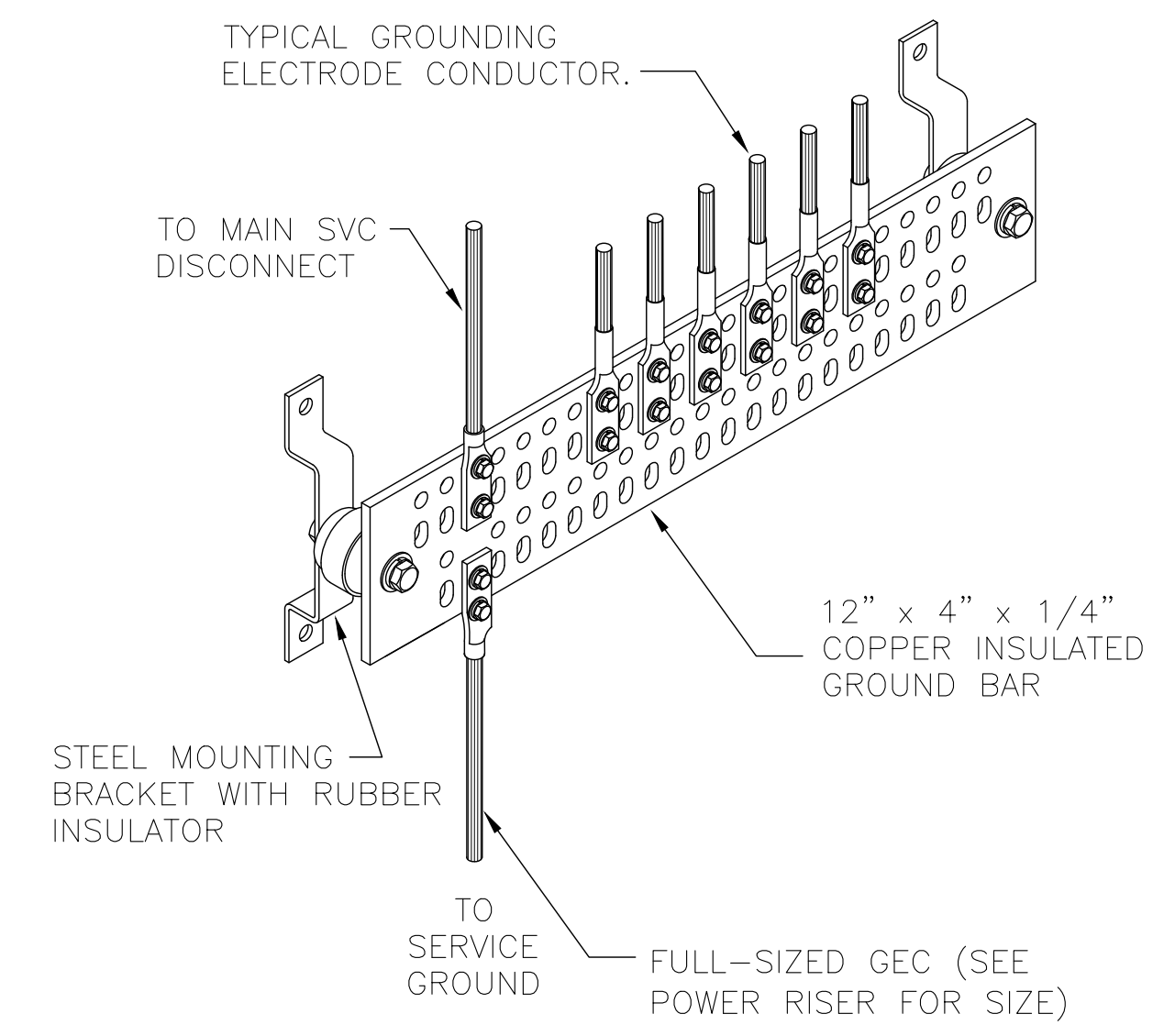
**GROUNDING DETAIL**

SCALE: NTS



**TYPICAL GROUND ROD DETAIL**

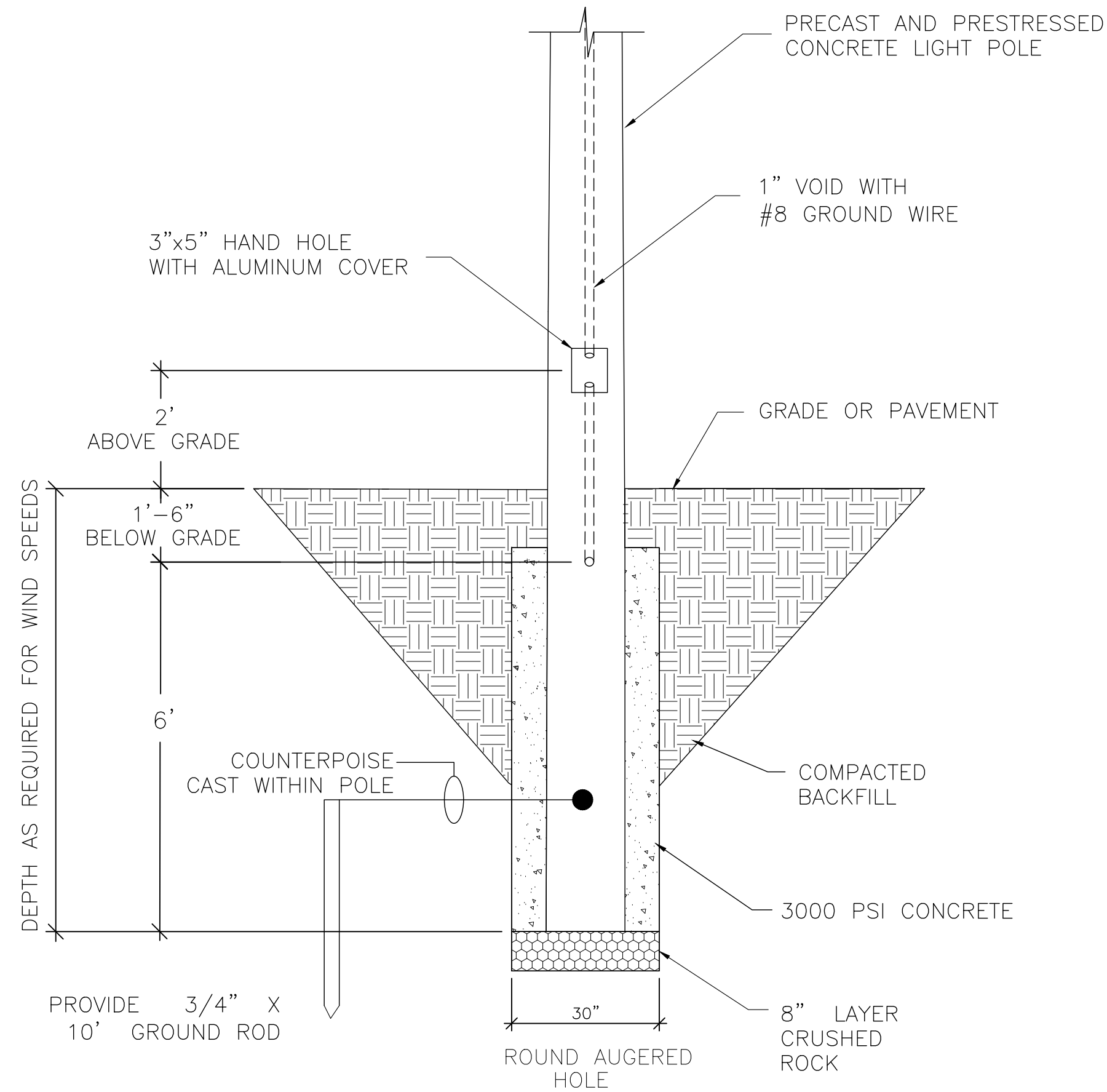
SCALE: NTS



- NOTES:
1. IF SERVICE DISCONNECT IS LOCATED OUTSIDE, PLACE GROUND BAR AT CLOSEST ACCESSIBLE LOCATION INSIDE THE BUILDING.

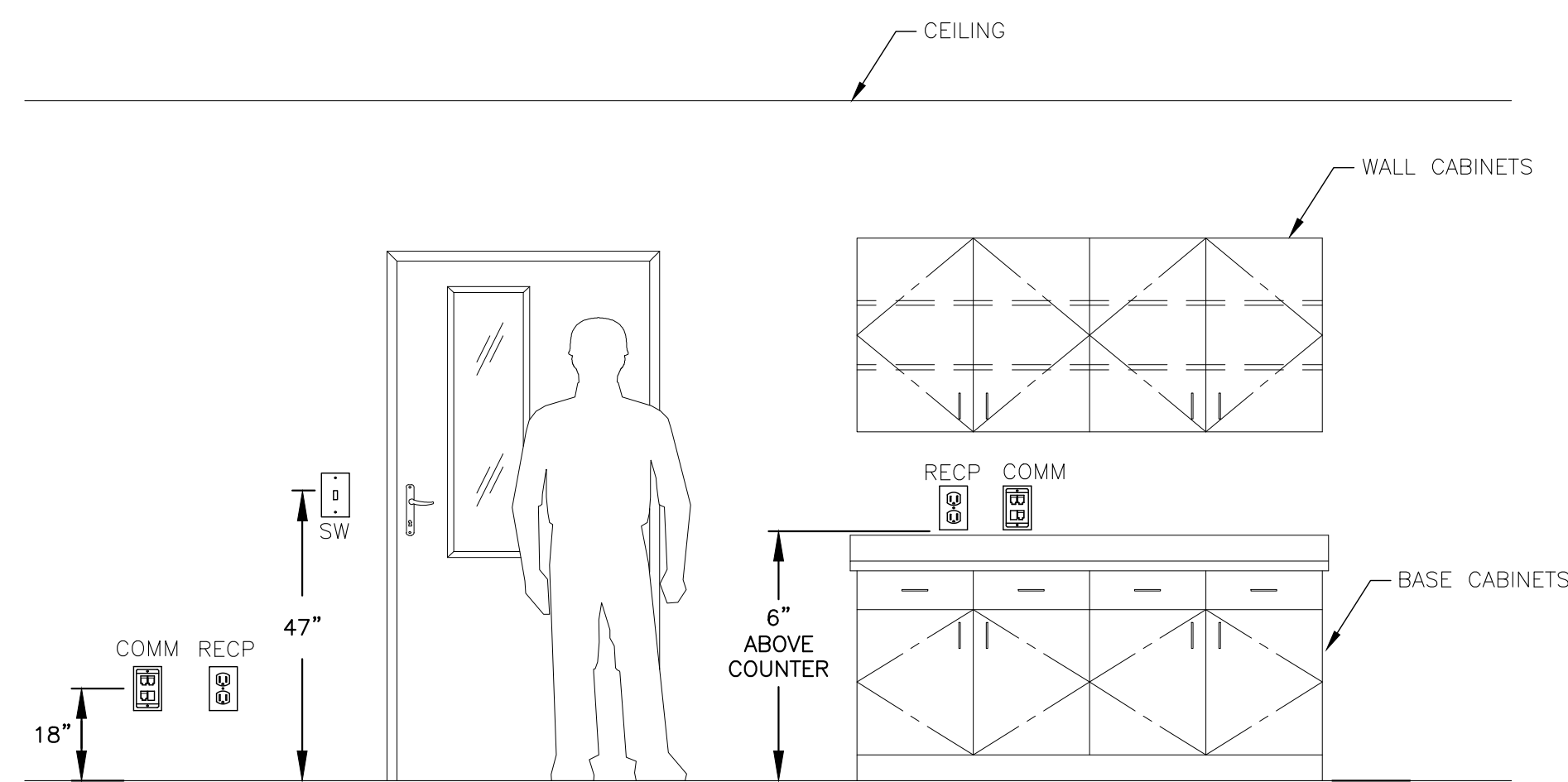
**GROUND BAR DETAIL**

SCALE: NTS



**LIGHT POLE FOUNDATION DETAIL**

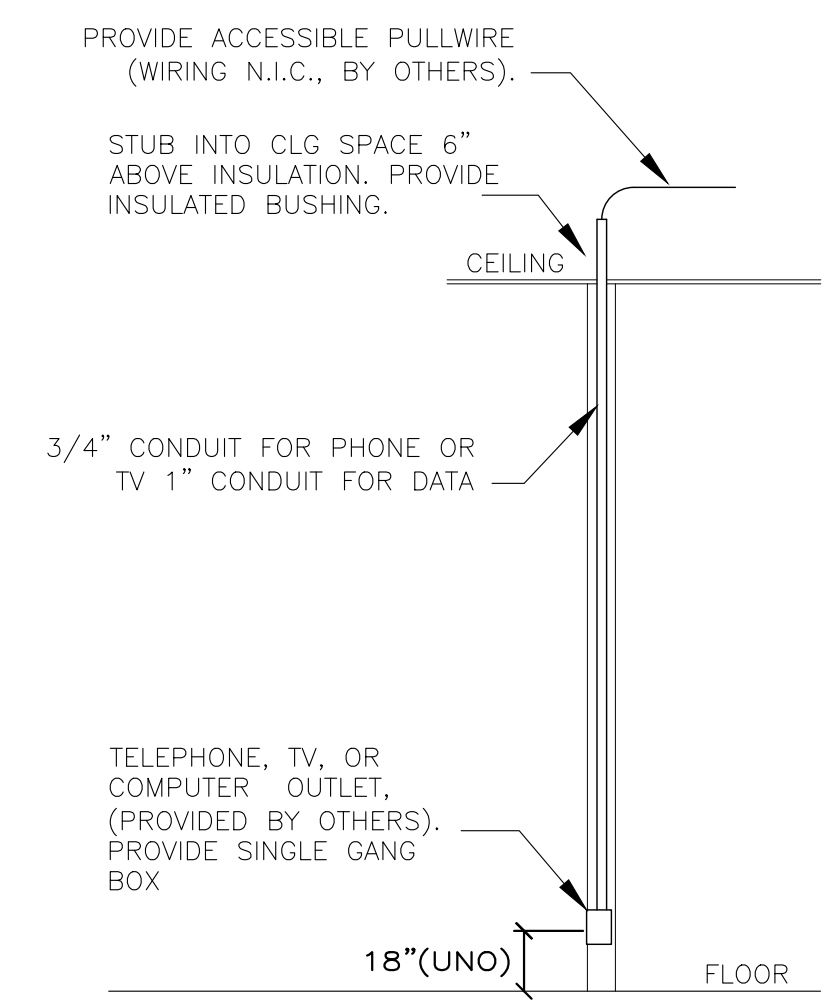
SCALE: NTS



- NOTES:
1. WITH THE EXCEPTION OF DEVICES ABOVE COUNTERS, MOUNT RECEPTACLES, DATA, PHONE, AND T.V. OUTLETS 18" A.F.F. (TO CENTER OF OUTLET) UNLESS NOTED OTHERWISE. MOUNT SWITCHES AT NO MORE THAN 47" A.F.F. (TO TOP OF SWITCH HANDLE) UNLESS NOTED OTHERWISE. IF THERE ARE OBSTRUCTIONS (I.E. A SERVICE COUNTER), MOUNT SWITCHES AT NO MORE THAN 44" A.F.F. (TO TOP OF SWITCH HANDLE). SEE SECTION 308 OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN FOR MORE INFORMATION. CONFORM TO ALL AMERICANS WITH DISABILITY ACT (ADA) REQUIREMENTS.

**TYPICAL DEVICE MOUNTING DETAIL**

SCALE: NTS



- NOTE: BOX AND CONDUIT FOR ADJACENT TELEPHONE AND COMPUTER OUTLETS MAY BE COMBINED. IF COMBINED, PROVIDE DOUBLE GANG BOX AND 1" CONDUIT.

**TYPICAL AND DATA RISER**

SCALE: NTS

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DSIAE**  
DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009993  
Florida License No.: AA26000952

ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: ELECTRICAL DETAILS	
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SHEET  
**E-7**  
*OPTION 2*

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**MECHANICAL GENERAL NOTES**

- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, & TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. LOCATION OF DUCTWORK IS APPROXIMATE. PRIOR TO FABRICATING DUCTWORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CLEARANCES AND REPORT ANY DISCREPANCIES BETWEEN DRAWINGS & ACTUAL FIELD CONDITIONS TO THE ENGINEER. PRIOR TO INSTALLING EQUIPMENT, CONTRACTOR SHALL ENSURE EQUIPMENT CLEARANCES WILL BE MAINTAINED.
- FABRICATE & INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION.
- CONDENSATE DISPOSAL SHALL BE IN ACCORDANCE WITH 2020 FMC INCLUDING ALL LATEST REVISIONS.
- CONDENSATE PIPING SHALL BE TRAPPED AND SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- INDOOR & OUTDOOR UNITS SHALL HAVE SINGLE POINT OF CONNECTION.
- PROVIDE CONICAL TAKE-OFFS FOR ALL ROUND TAPS INTO RECTANGULAR DUCTWORK WITH VOLUME DAMPERS AT EACH TAKE-OFF FOR CFM ADJUSTMENT.
- COORDINATE DIFFUSER BOXES, SUPPLY, & RETURN GRILLES & OTHER MECHANICAL DEVICES WITH LIGHT FIXTURES, SPRINKLER PIPING & PLUMBING.
- PROVIDE LOW AMBIENT CONTROLS AS NECESSARY TO ALLOW COOLING AT TEMPERATURES DOWN TO 45°F.
- HORSEPOWER RATINGS ON MOTORS ARE BASED ON SCHEDULED EQUIPMENT & DESIGN CONDITIONS. ACTUAL FIELD CONDITIONS OR SUBSTITUTIONS FROM SCHEDULED EQUIPMENT MAY REQUIRE DIFFERENT HORSEPOWER. IF LARGER MOTOR SIZES ARE REQUIRED OR CHANGES OCCUR IN VOLTAGES, COORDINATE ELECTRICAL SERVICE TO ENSURE PROPER WIRE SIZES & DEVICES AT NO ADDITIONAL COMPENSATION (DUE TO THESE CHANGES) ASKED FOR OR REQUESTED BY ANOTHER CONTRACTOR OR TRADE.
- REFRIGERANT LINES FROM CU's TO AHU's SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- ALL FAN MOTORS SHALL HAVE THERMAL OVERLOAD & CURRENT PROTECTION.
- PROVIDE SMOKE DETECTORS IN SUPPLY DUCT FOR ALL AHU's THAT DELIVER GREATER THAN 2000 CFM OF SUPPLY AIR FOR UNIT SHUTDOWN. CONTRACTOR SHALL PROVIDE AUDIBLE & VISUAL ALARM IN A CONSTANTLY OCCUPIED LOCATION. ALARM SHALL BE LABELED "DUCT TROUBLE".
- PROVIDE AHU's WITH PROGRAMMABLE THERMOSTATS.
- PROVIDE UNITS WITH 1" DISPOSABLE FILTER & FILTER HOUSING, TIME DELAY RELAY & LOCKOUT RELAY.
- PROVIDE UNITS WITH A 5 YEAR WARRANTY FOR COMPRESSORS & ONE YEAR ON OTHER PARTS.
- ALL DUCTWORK SHALL BE CONSTRUCTED WITH FIBERBOARD OR SHEET METAL PER LATEST SMACNA STANDARDS, & SHALL HAVE A MINIMUM R VALUE OF 6.
- MECHANICAL CONTRACTOR TO PROVIDE TENANT WITH AIR BALANCE REPORT, EQUIPMENT AND LABOR WARRANTIES AND PROVIDE A COMPLETE, OPERATIONAL MECHANICAL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES.
- OUTSIDE AIR DUCTS SHALL INCLUDE INSTALLATION OF A MOTORIZED, 2-POSITION DAMPER TO ALLOW THE SCHEDULED AMOUNT OF OUTSIDE AIR TO FLOW THROUGH THE UNIT, AND CLOSE UPON UNIT SHUTDOWN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA MECHANICAL CODE (INCLUDING ALL LATEST REVISIONS), NFPA 90A, ASHRAE 62.1-2016, AND ASHRAE 90.1.
- PROVIDE ENGINEER OF RECORD WITH HVAC EQUIPMENT CUT SHEETS. CUT SHEETS SHALL BE APPROVED PRIOR TO INSTALLATION.
- THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK LOCATIONS DESIGNED BY THE MECHANICAL ENGINEER AND FIELD VERIFY ANY OBSTACLES OR CONFLICTS AND NOTE THEM IMMEDIATELY TO THE ENGINEER. NO DUCTWORK SHALL BE FABRICATED PRIOR TO FIELD VERIFYING ALL EXISTING CONDITIONS.

**SYMBOL LEGEND**

	NEW RECTANGULAR DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)		CEILING SUPPLY AIR DIFFUSER
	NEW ROUND DUCT (INSIDE DIMENSION)		CEILING RETURN AIR GRILLE
	FLEX DUCT (INSIDE DIMENSION)		CEILING EXHAUST AIR GRILLE
	EXISTING DUCT TO REMAIN		DUCT / WALL MOUNTED SUPPLY REGISTER / GRILLE
	EXISTING DUCT TO BE REMOVED		DUCT / WALL MOUNTED RETURN/ EXHAUST REGISTER / GRILLE
	CONNECT NEW DUCT TO EXISTING DUCT		MANUAL VOLUME DAMPER
	TRUNCATE DUCT - LIMIT OF DEMOLITION		SMOKE DETECTOR
	VANED ELBOW		DUCT TEMPERATURE SENSOR
	RADIUS ELBOW		THERMOSTAT/SENSOR
	TRANSITION - CONCENTRIC		DEHUMIDISTAT
	TRANSITION - ECCENTRIC		AIR DEVICE TYPE
	SQUARE TEE		CFM AMOUNT
	STANDARD BRANCH TAKE-OFF		SUPPLY AIRFLOW
	SUPPLY DUCT (UP & DOWN)		RETURN/ EXHAUST AIRFLOW
	RETURN DUCT (UP & DOWN)		HEATER
	EXHAUST DUCT (UP & DOWN)		
	ROUND DUCT (UP & DOWN)		

**ABBREVIATIONS**

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULAR
CU	CONDENSING UNIT
DCI	DUCTLESS CEILING-CASSETTE INDOOR
DCO	DUCTLESS CEILING-CASSETTE OUTDOOR
DN	DOWN
DWI	DUCTLESS WALL-MOUNTED INDOOR
DWO	DUCTLESS WALL-MOUNTED OUTDOOR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY-BULB (TEMPERATURE)
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET-BULB (TEMPERATURE)
EX	EXISTING
FD	FIRE DAMPER
FF	FLY FAN (AIR CURTAIN)
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLON PER MINUTE
HE	HEATER
HP	HEAT PUMP
HP	HORSEPOWER
HUM	HUMIDIFIER
IN	INCHES
IRH	INFRARED HEATERS
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS BTUS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOC	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED CONTROL DAMPER
MUA	MAKE-UP AIR UNIT
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RECT	RECTANGULAR
RH	RELATIVE HUMIDITY
RLA	RUN LOAD AMPERE
RTU	ROOFTOP AIR HANDLING UNIT
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SS	STAINLESS STEEL
SP	STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT DOOR
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF
V/PH	VOLTS/PHASE
VCD	VOLUME CONTROL DAMPER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
	(MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WEF	WALL EXHAUST FAN

NOTE: SOME SYMBOLS SHOWN DO NOT PERTAIN TO THIS PROJECT

**NO HVAC WORK FOR OPTION 2**

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009393  
Florida License No.: AA26000952

**JOHN'S AUTOMOTIVE**  
5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: MECHANICAL NOTES, LEGEND AND ABBREVIATIONS	
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SHEET **M-1**

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### SPLIT SYSTEM COOLING UNIT SCHEDULE

MARK	TONS	INDOOR FAN DATA				COOLING CAPACITY				SEER	INDOOR FAN			OUTDOOR UNIT		ELECTRICAL DATA			BASIS OF DESIGN	
		TOTAL FLOW (CFM)	O/A (CFM)	ESP (W.G.)	MOTOR (HP)	EDB (°F)	EWB (°F)	AMBIENT (°F)	TOTAL (BTU/HR)		SENSIBLE (BTU/HR)	MCA (A)	MOCP (A)	HEATER (KW)	MCA (A)	MOCP (A)	VOLTS	Hz		PHASE
AHU-1 /CU-1	5	1800	200	0.7	0.75	80	67	95	55,700	38,100	14.5	54.6	60	8.8	30.9	50	230	60	1	YORK JHVTD60HBC2N1 / TCE2B60S21S

NOTES:  
 1. UNITS PROVIDED SHALL MEET ALL SCHEDULED VALUES REGARDLESS OF MODEL OR TYPE, UNLESS APPROVED BY THE ENGINEER.  
 2. PROVIDE EACH UNIT WITH A PROGRAMMABLE THERMOSTAT MOUNTED @ 48" AFF.  
 3. PROVIDE WATER-LEVEL DETECTION DEVICE INSIDE PRIMARY DRAIN PAN THAT WILL SHUT OFF UNIT WHEN THE PRIMARY DRAIN PAN BECOMES RESTRICTED.

### AIR DISTRIBUTION DEVICE SCHEDULE

MARK	DESCRIPTION	MOUNTING	FACE SIZE	BASIS OF DESIGN	NOTES
A	4-WAY SUPPLY	LAY-IN	24"x 24" / 12"x 12"	TITUS TMS	1,2
B	EGGCRATE RETURN	LAY-IN	24"x 24" / 12"x 12"	TITUS 50F	2

NOTES:  
 1. LOUVER FACE.  
 2. WITH OPTIONAL DAMPER.

### EXHAUST FAN SCHEDULE

MARK	SERVICE	TOTAL AIR (CFM)	E.S.P. (W.G.)	UNIT TYPE	DRIVE	POWER (W)	PLA	VOLTS/PH/Hz	MANUFACTURER	MODEL NUMBER	NOTES
EF-1,2	TOILET ROOM	70	0.13	CEILING	DIRECT	15	0.27	115/1/60	GREENHECK	SP-A70	1,2
EF-3	WAREHOUSE	1725	0.1	UPBLAST	DIRECT	--	6.6	115/1/60	GREENHECK	CUE-160-VG	2,3

NOTES:  
 1. INTERLOCK WITH LIGHT SWITCH.  
 2. PROVIDE BACKDRAFT DAMPER.  
 3. CONTROLLED BY TIMECLOCK. SET TO RUN DURING OCCUPIED TIMES.

### LOUVER SCHEDULE

MARK	DESCRIPTION	TOTAL AIR (CFM)	MOUNTING	FACE SIZE	MATERIAL	BASIS OF DESIGN	NOTES
L-1	OUTDOOR AIR INTAKE	200	WALL MOUNTED	16" x 12"	ALUMINUM	GREENHECK EVH-501D	1,2
L-2	OUTDOOR AIR INTAKE	1725	WALL MOUNTED	40" x 24"	ALUMINUM	GREENHECK ESD-635	1,3

NOTES:  
 1. COORDINATE FINISH WITH ARCHITECT.  
 2. PROVIDE BIRD SCREEN AND MOTORIZED, 2-POSITION O/A DAMPER.  
 3. STATIONARY LOUVER. ALWAYS OPEN.

### UNIT HEATER SCHEDULE

MARK	HEATER KW	HEATER TYPE	SERVICE	AMPS	CFM	MOUNTING HEIGHT	VOLTS	Hz	PHASE	BASIS OF DESIGN	NOTES
UH-1,2,3,4	7.5	UNIT	WAREHOUSE	27.1	700	10'	240	60	1	REDDI HF2B5107CA1L	1-3

NOTES:  
 1. UNITS PROVIDED SHALL MEET ALL SCHEDULED VALUES REGARDLESS OF MODEL OR TYPE, UNLESS APPROVED BY THE ENGINEER.  
 2. PROVIDE EACH UNIT WITH A MOUNTING BRACKET, MOUNT WITH ADEQUATE CLEARANCE  
 3. PROVIDED WALL MOUNTED ENERGY SAVINGS THERMOSTAT SDHW1001

### BRANCH & FLEX DUCT SCHEDULE

0 - 160	CFM	-	6"
165 - 250	CFM	-	8"
255 - 380	CFM	-	10"
385 - 470	CFM	-	12"
475 - 700	CFM	-	14"
705 - 1100	CFM	-	16"

NOTE: BRANCH RUNOUT SIZE REFLECTS SUPPLY DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.

### OUTDOOR AIR VENTILATION CALCULATION ASHRAE 62.1.2004

$$V_{bz} = (R_p)(P_z) + (R_a)(A_z)$$

SPACE	PEOPLE OUTDOOR AIR RATE (Rp)	ZONE POPULATION (PER 1000 SQFT)	ZONE POPULATION (Pz)	AREA OUTDOOR AIR RATE (Ra)	ZONE FLOOR AREA (Az)	EXHAUST (Ea)	BREATHING ZONE (Vbz)
TOILET ROOMS (2)	0	0	0	0	98	140	0
STORAGE 104	0	0	0	0.12	569	N/A	68
OFFICE 103	5	5	1	0.06	182	N/A	16
HALLWAY	0	0	0	0.06	175	N/A	11
COUNTER AREA / WAITING	7.5	10	4.8	0.12	480	N/A	94
TOTAL O/A REQUIRED 189 CFM O/A PROVIDED THROUGH AHU-1 = 200 CFM				TOTAL EXHAUST = 140 CFM		189	

### AIR BALANCE SCHEDULE

UNIT	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
AHU-1	200	1600	1800	--	200
EF-1,2	--	--	--	-140	-140
TOTAL	200	1600	1800	-140	60

### WAREHOUSE OUTDOOR AIR VENTILATION CALCULATION ASHRAE 62.1.2004

$$V_{bz} = (R_p)(P_z) + (R_a)(A_z)$$

SPACE	PEOPLE OUTDOOR AIR RATE (Rp)	ZONE POPULATION (PER 1000 SQFT)	ZONE POPULATION (Pz)	AREA OUTDOOR AIR RATE (Ra)	ZONE FLOOR AREA (Az)	EXHAUST (Ea)	BREATHING ZONE (Vbz)
AUTOMOTIVE WAREHOUSE	0	0	0	0.12	2270	1702.5	272
TOTAL O/A REQUIRED 1703 CFM O/A PROVIDED THROUGH L-2 = 1725 CFM				TOTAL EXHAUST = 1703 CFM		272	

### WAREHOUSE AIR BALANCE SCHEDULE

UNIT	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
L-2	1725	--	--	--	1725
EF-3	--	--	--	-1725	-1725
TOTAL	1725	0	0	-1725	0

CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
 370 15th Ave S, Units A & B  
 Jacksonville Beach, FL 32250  
 904.249.0688 p  
 904.241.0691 f  
 www.dsae.net  
 Florida Certificate of Auth No.: 00009393  
 Florida License No.: AA26000952

**ADDITION AND REMODEL**

## JOHN'S AUTOMOTIVE

5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: MECHANICAL SCHEDULES

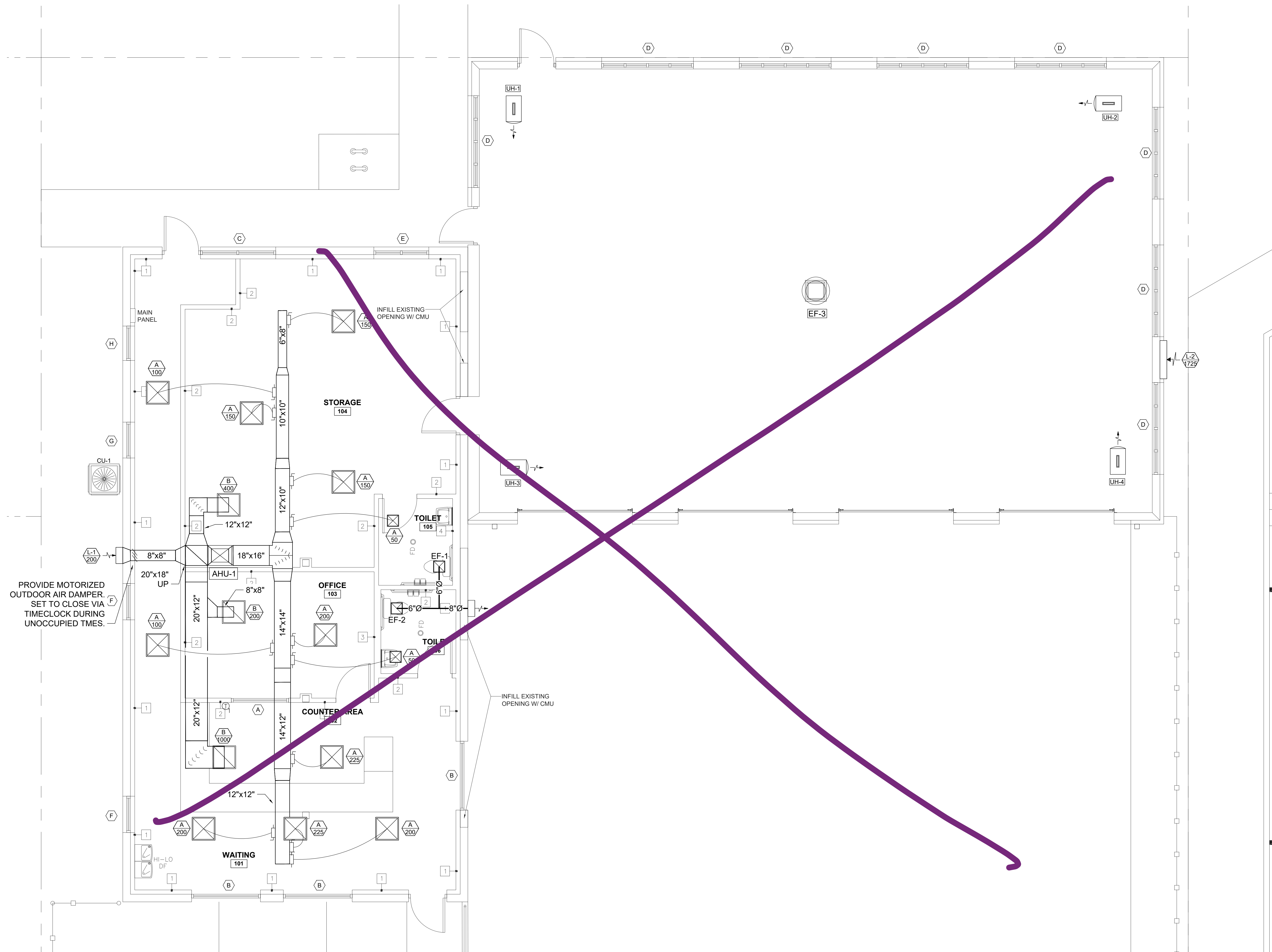
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**MECHANICAL PLAN**  
SCALE: 1/4"=1'-0"



CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0686 p  
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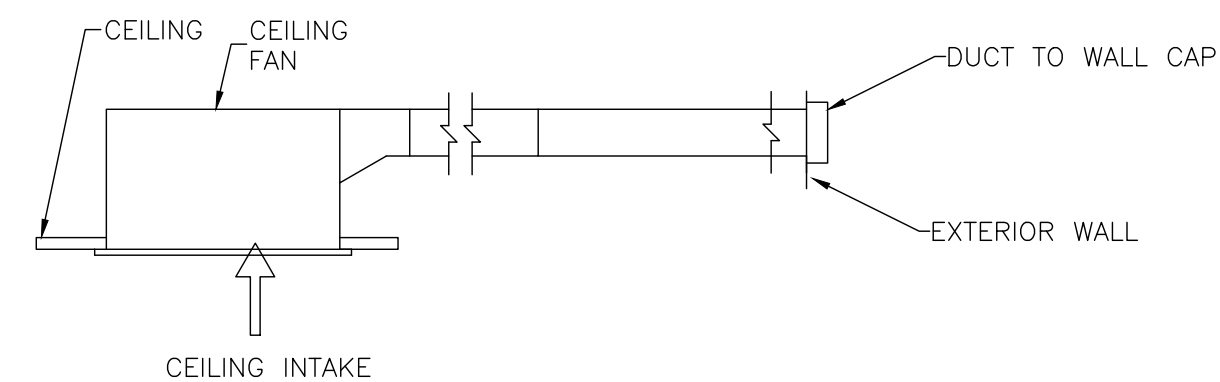
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5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

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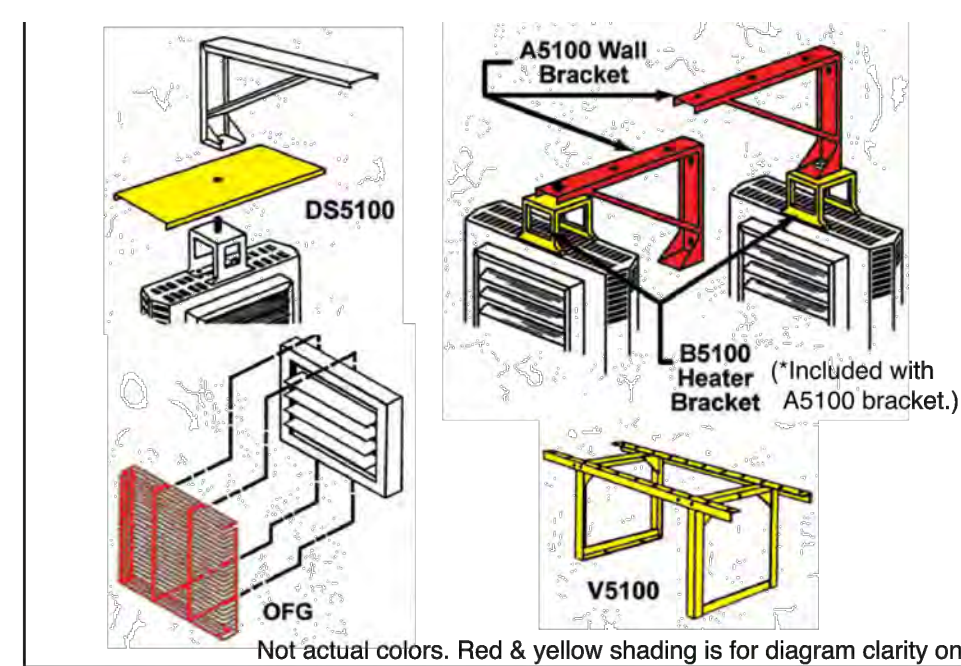
SHEET  
**M-3**

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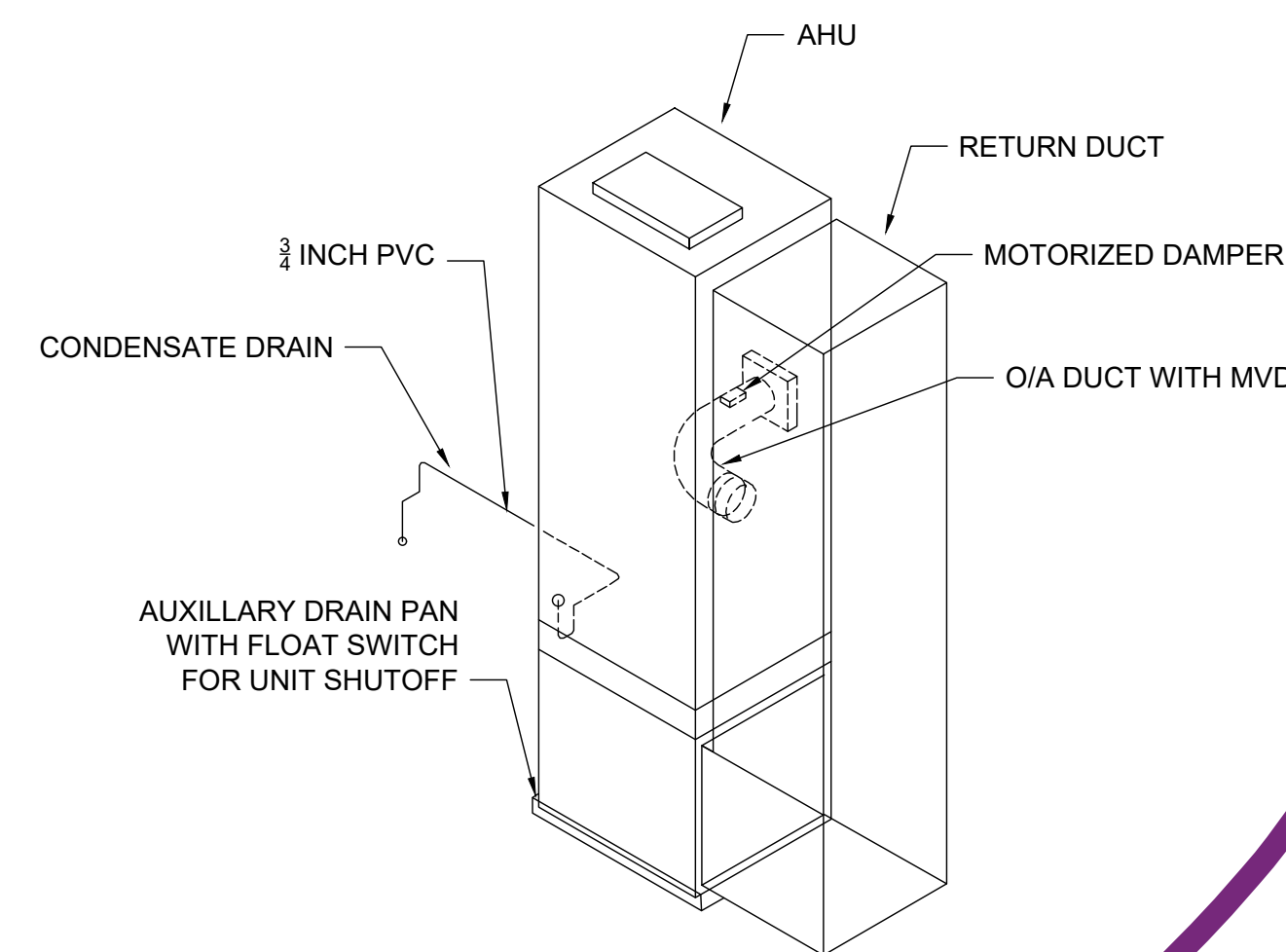
### TOILET EXHAUST DETAIL

SCALE: N.T.S.



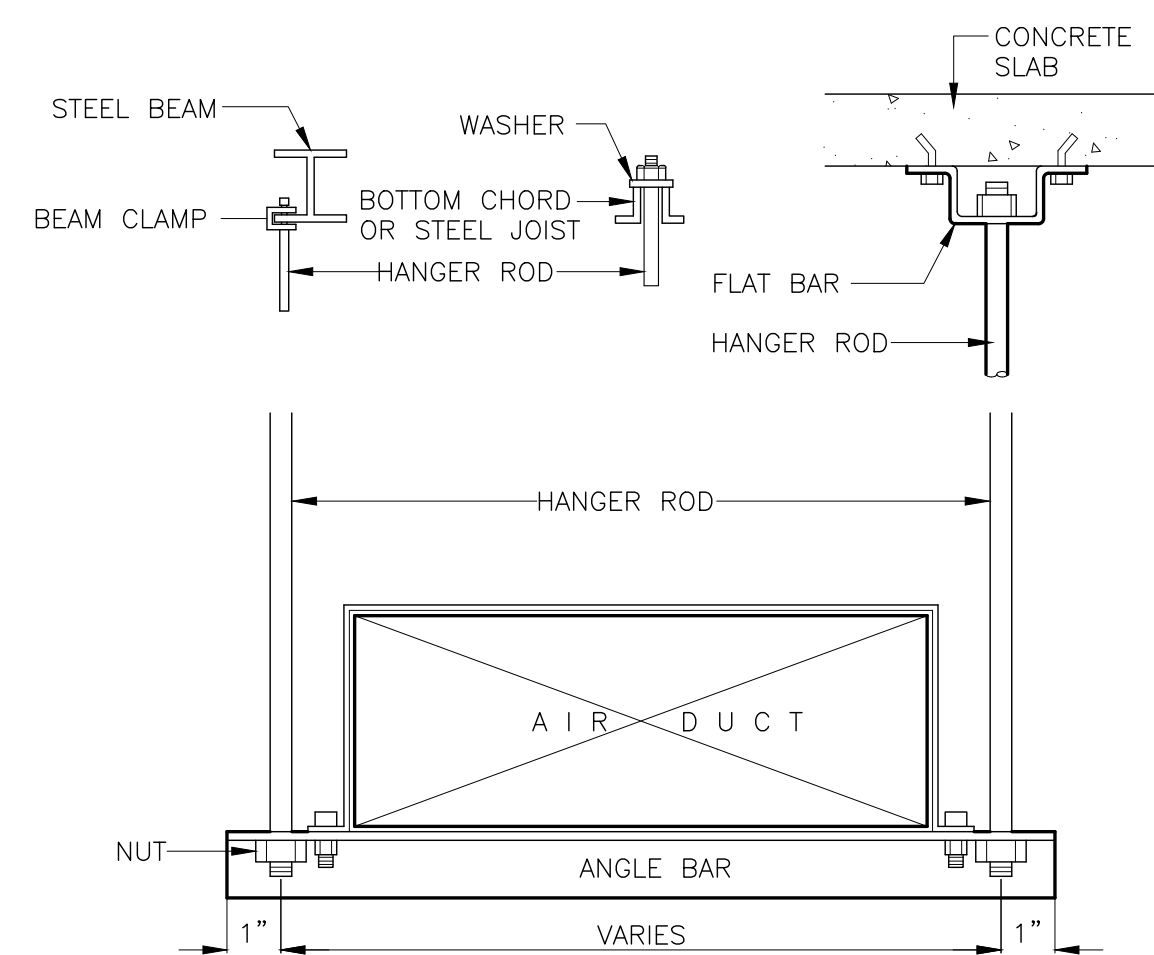
### UNIT HEATER BRACKET DETAIL

SCALE: N.T.S.



### AHU CONNECTION DETAIL

SCALE: N.T.S.

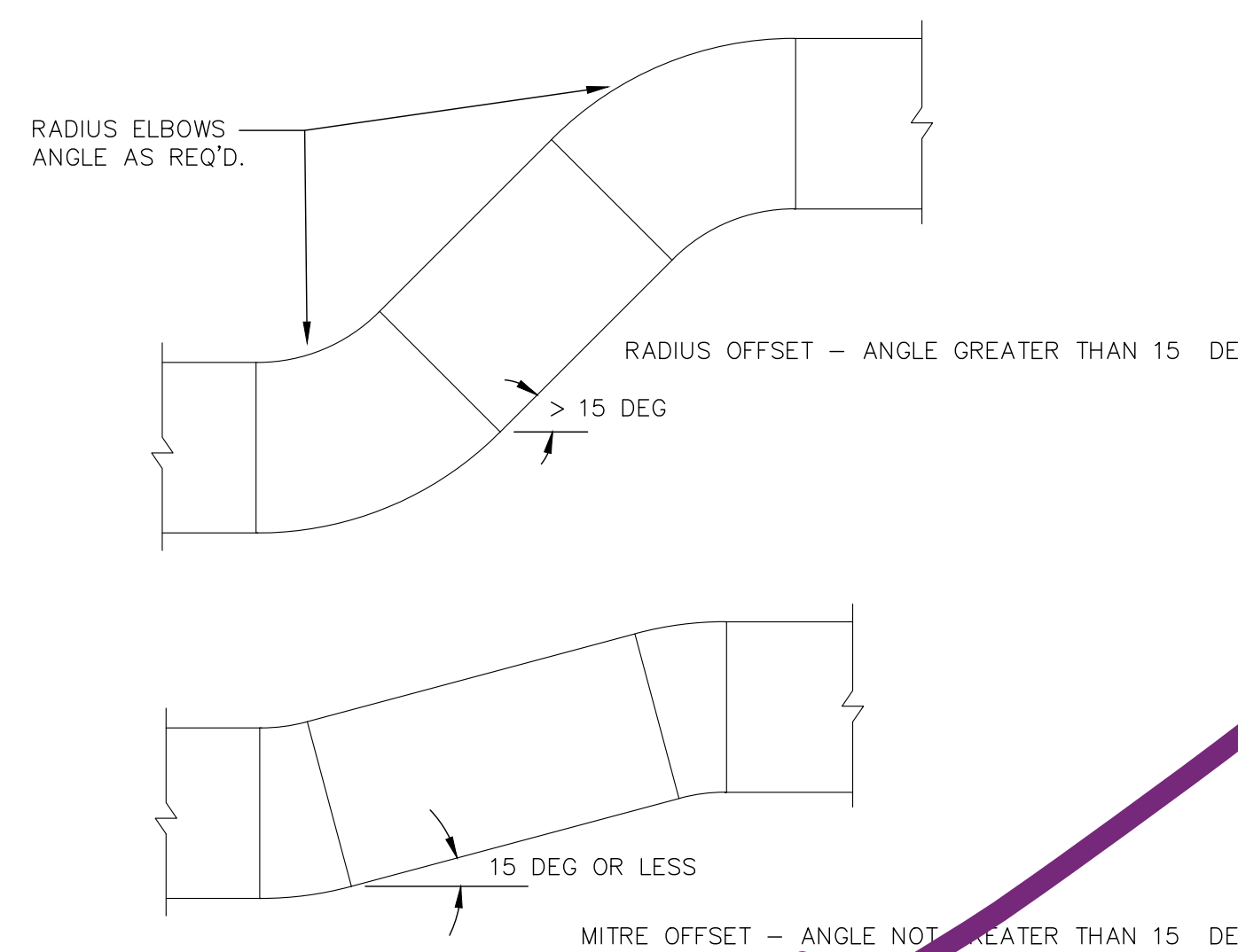


NOTE:

1. MAXIMUM HANGER SPACING SHALL BE ON 6FT. TO 8FT. INTERVALS.
2. ANGLE BAR SUPPORT SHALL CONFORM WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 3rd EDITION, 2005.
3. HANGER ROD SHALL CONFORM WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, 3rd EDITION, 2005.
4. INSTALL HANGERS AND SUPPORTS WITHIN 24 IN. OF EACH ELBOW AND WITHIN 48 IN. OF EACH BRANCH INTERSECTION.

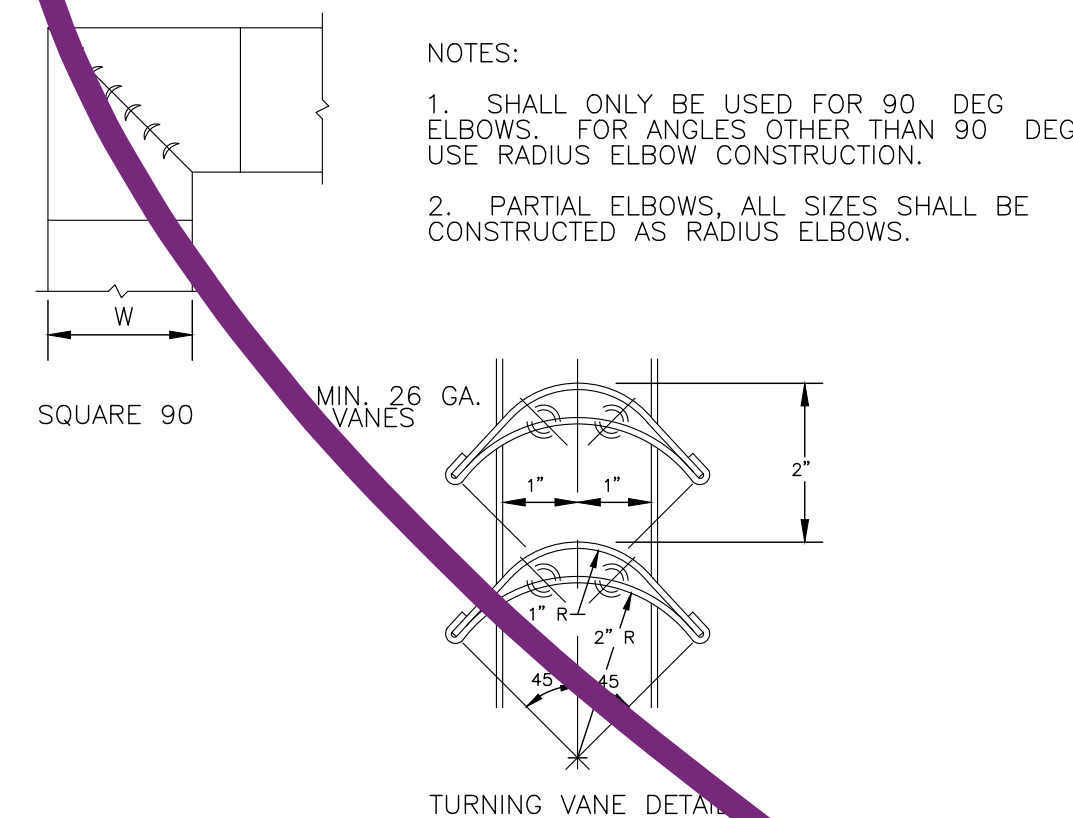
### DUCT HANGER DETAIL

SCALE: N.T.S.



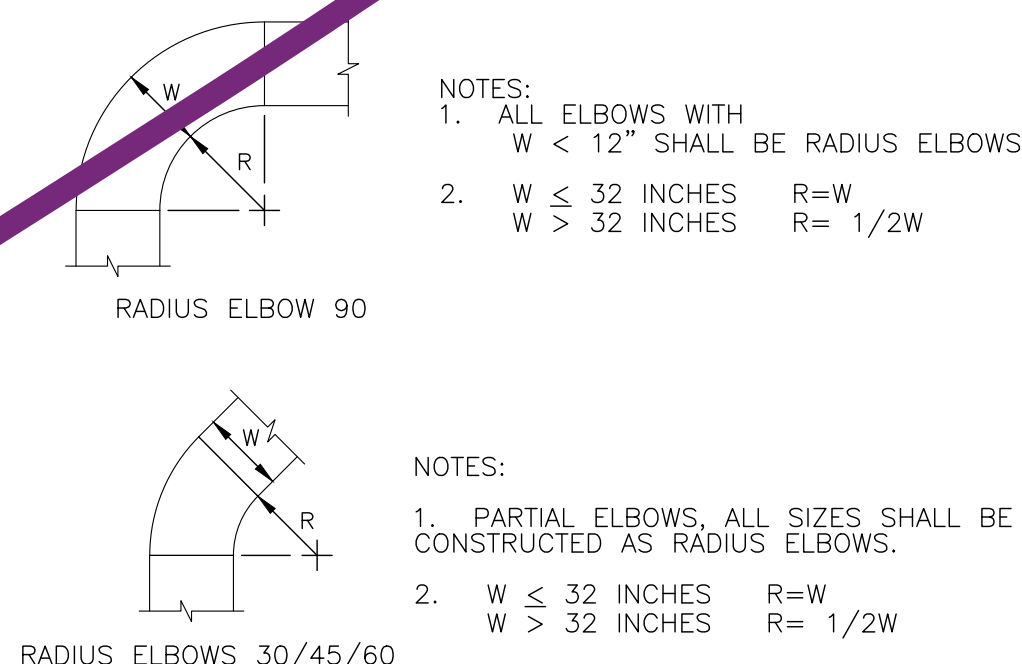
### DUCT OFFSET

SCALE: N.T.S.



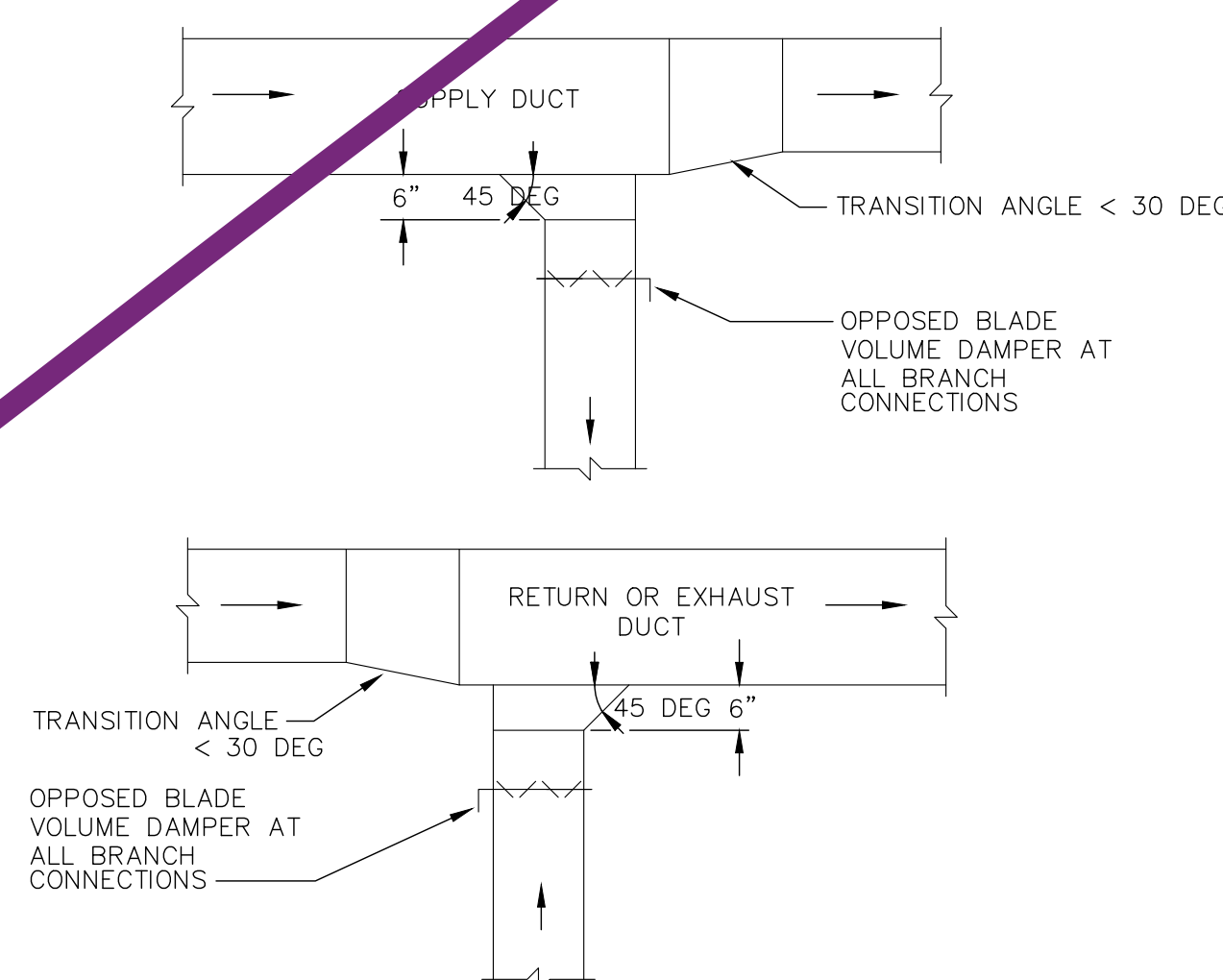
### ELBOW DETAIL - RECT. DUCT

SCALE: N.T.S.



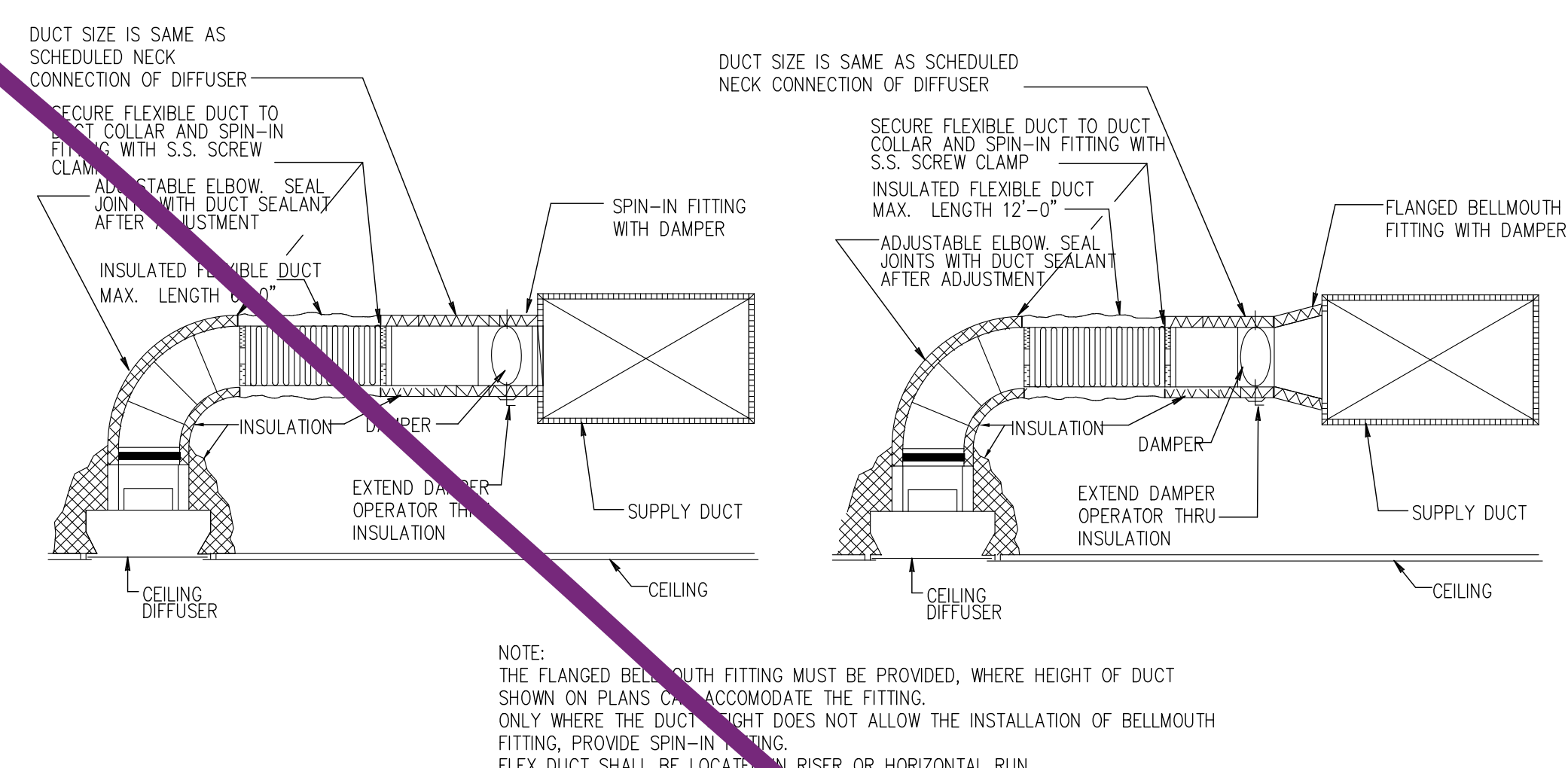
### RADIUS ELBOW - RECT. DUCT

SCALE: N.T.S.



### TYPICAL BRANCH TAKE-OFF DETAIL

SCALE: N.T.S.



NOTE:  
THE FLANGED BELLMOUTH FITTING MUST BE PROVIDED, WHERE HEIGHT OF DUCT SHOWN ON PLANS CAN ACCOMMODATE THE FITTING.  
ONLY WHERE THE DUCT HEIGHT DOES NOT ALLOW THE INSTALLATION OF BELLMOUTH FITTING, PROVIDE SPIN-IN FITTING.  
FLEX DUCT SHALL BE LOCATED IN RISER OR HORIZONTAL RUN.

### FLEX DUCT CONNECTION DETAIL

SCALE: N.T.S.

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
www.dsae.net  
Florida Certificate of Auth No.: 00009993  
Florida License No.: AA26000952

ADDITION AND REMODEL  
**JOHN'S AUTOMOTIVE**

5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

SHEET TITLE: MECHANICAL DETAILS	
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# PLUMBING LEGEND

## PROJECT GENERAL NOTES

1. SANITARY, WASTE AND VENT PIPE AND FITTINGS SHALL BE SOLID CORE DWV SCH 40 PVC, WITH A SOLID CELLULAR CORE, OR COMPOSITE WALL MATERIAL AS SPECIFIED, UNLESS STATED OTHERWISE BY LOCAL CODES AND REGULATIONS; ASTM D2665; ASTM F891; ASTM F1488; CSA B181.2. PROVIDE APPROVED FIRE RATED JACKET WHERE PIPE PASSES THROUGH RETURN AIR PLENUM.
2. OFFSET VENT THRU ROOF'S (VTR'S) AS REQUIRED TO PENETRATE ROOF AT LOCATION AT LEAST 10' FROM AIR CONDITIONING UNIT INTAKES AND TERMINATE A MINIMUM OF 12" (INCHES) AWAY FROM ANY VERTICAL SURFACE. COORDINATE EXACT LOCATION OF AIR CONDITIONING UNITS WITH MECHANICAL CONTRACTOR AND ADJUST AS NECESSARY. EXISTING VTR'S MAY BE RE-USED WHERE SUITABLE.
3. REFER TO RISERS FOR PIPE SIZES NOT SHOWN ON PLAN. REFER TO SCHEDULE FOR SANITARY DRAIN, DOMESTIC WATER AND INDIVIDUAL VENT CONNECTION SIZES.
4. REFER TO ARCHITECTURAL PLANS TO CONFIRM LOCATION OF FIRE RATED WALLS, SMOKE BARRIERS, AND SMOKE PARTITIONS. ALL PENETRATIONS OF RATED WALLS SHALL BE MADE WITH FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE REQUIREMENTS. PENETRATIONS OF ALL FIRE RATED ASSEMBLIES SHALL BE MADE IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY'S UL LISTING, AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. SLEEVE ALL FLOOR/WALL PENETRATIONS THAT ARE NOT CORE BORED.
6. POTABLE WATER PIPING AND FITTINGS SHALL BE CPVC WITH COMPATIBLE CPVC FITTINGS AND SOLVENT CEMENT, MATERIAL AS SPECIFIED. OR POTABLE WATER PIPING AND FITTINGS SHALL BE TYPE K COPPER BELOW GRADE AND TYPE L COPPER ABOVE GRADE AS SPECIFIED. PROVIDE APPROVED FIRE RATED JACKET WHERE PIPE PASSES THROUGH RETURN AIR PLENUM.
7. INSULATE ALL HOT WATER PIPING, AND COLD WATER PIPING IN EXPOSED LOCATIONS, AS SPECIFIED.
8. REFER TO WATER HEATER DETAIL FOR EMERGENCY DISCHARGE, DRAIN PAN, AND OTHER PIPING REQUIREMENTS.
9. ISOLATION AND SHUT-OFF VALVES AND STOP VALVES SHALL BE GATE VALVES, BALL VALVES OR ANGLE STOPS, RATED FOR 150 PSI AT 180°F. REFER TO SPECIFICATIONS.
10. PROVIDE WATER HAMMER ARRESTORS FOR ALL FIXTURES IN ACCORDANCE WITH PDI 201 GUIDELINES.
11. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND/OR FLOOR SINKS. PROVIDE ADA COVERING OVER TRAP PRIMERS INSTALLED UNDER ADA LAVATORIES AND SINKS.
12. ALL WATER PIPE SHALL BE RUN CONCEALED IN CHASE, WALL, OR ABOVE CEILING EXCEPT IN MECHANICAL ROOMS OR AS OTHERWISE NOTED.
13. PRIOR TO ORDERING FIXTURES, CONFIRM DIMENSIONAL FIT-UP REQUIREMENTS FOR DWV PIPING LAYOUTS, FRAMING/MILLWORK, FAUCET TRIM HOLES, ETC. AND COORDINATE ANY REQUIRED ADJUSTMENTS FOR PROPER FIT FORM AND FUNCTION OF EACH FIXTURE.
14. PROVIDE ALL REQUIRED FITTINGS FOR COMPLETE INSTALLATION OF EACH FIXTURE INCLUDING, BUT NOT LIMITED TO, 3/8" FLEXIBLE SUPPLIES, ESCUTCHEON PLATES, STOP VALVES, DRAINS, TRAPS, MOUNTING HARDWARE, ETC. ALL EXPOSED HARDWARE SHALL BE POLISHED BRASS OR CHROME FINISH.
15. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, PLUMB AND LEVEL, PROPERLY SECURED AND SEALED TO WALL OR FLOOR.
16. ALL PLUMBING FIXTURES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 FLORIDA PLUMBING CODE AND ENERGY CONSERVATION CODE, LATEST EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION.
17. ALL PLUMBING FIXTURES AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FLORIDA ACCESSIBILITY CODE. ENSURE SANITARY ROUGH-INS ARE LOCATED TO MAINTAIN ADA CLEARANCES AFTER FIXTURES ARE INSTALLED. REFER TO ARCHITECTURAL SHEETS FOR EXACT DIMENSIONS.
18. REVIEW PLANS TO CONFIRM ADEQUATE CHASE AND/OR WALL CAVITY CLEARANCE EXISTS PRIOR TO INITIATION OF WORK.
19. ALL PIPING, MATERIALS AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED.
20. REVIEW BUY AMERICA(N) REQUIREMENTS WITH GENERAL CONTRACTOR. IF RELEVANT TO THIS CONTRACT, CONFIRM ALL EQUIPMENT PROVIDED MEETS THESE REQUIREMENTS, REGARDLESS OF MAKE/MODEL INDICATED ON BASIS OF DESIGN EQUIPMENT SCHEDULES.
21. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE 2020 FLORIDA BUILDING CODE AND ALL CURRENT AMENDMENTS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
22. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCES WITH ELECTRICAL, MECHANICAL AND STRUCTURAL FRAMING.
23. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
24. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING. IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
25. ALL WASTE AND VENT PIPING SHALL SLOPE AT 1/8" PER FOOT OR 1/4" PER FOOT UNLESS INDICATED OTHERWISE.
26. REMOVE ALL FACTORY MARKINGS ON EXPOSED PVC PIPING. USE ACETONE, XYLENE, MEK OR ANOTHER APPROPRIATE SOLVENT.
27. ALL FLOOR DRAINS; CLEANOUTS; FLOOR SINKS AND TROUGHS SHALL BE INSTALLED FLUSH TO FINISHED FLOOR, NO DISHING PERMITTED.
28. ALL VENT PIPING SHALL BE FULL LINE SIZE IF A WALL CLEAN-OUT IS SHOWN OR AS INDICATED.
29. FLOOR DRAIN LINE SIZE AND VENTING IN ACCORDANCE WITH THE 2020 FLORIDA PLUMBING CODE INCLUDING LATEST REVISIONS, COMBINATION WASTE AND VENT SYSTEM.
30. ALL VENT PIPING SHALL BE LOCATED WITHIN MASONRY WALLS AND OTHER WALL CONSTRUCTION THAT MAY BE USED TO ENCLOSE THE VENT PIPING. PIPING SHOWN ON DRAWINGS MAY NOT REFLECT THIS INSTALLATION METHOD BECAUSE OF THE DEGREE OF DETAIL INCONSISTENT WITH 1/8" PLANS. IF PIPING CANNOT BE INSTALLED WITHIN THESE STRUCTURES, APPROVAL OF THE ENGINEER OF ANOTHER INSTALLATION METHOD IS REQUIRED. ALL EXPOSED VENT PIPING SHALL BE ATTACHED TO WALL NO FURTHER THAN 3" AWAY.
31. PLUMBING FIXTURE DESCRIPTION SHALL TAKE PRECEDENCE WHEN EXISTS A CONFLICT WITH THE DESCRIPTION AND MODEL NUMBER.
32. PLUMBING CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV) WHERE WATER MAIN ENTERS BUILDING IF PRESSURE EXCEEDS 80 PSI. SET PRESSURE REDUCING VALVE TO 75 PSI.
33. WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION TO THESE PLANS TO AVOID MISTAKES, THE DESIGNER AND COMPANY CANNOT GUARANTEE AGAINST ERROR OR UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR OR BUILDER MUST CHECK ALL DIMENSIONS AND DETAILS AND REPORT ANY DISCREPANCIES.
34. CONTRACTOR MUST CHECK EQUIPMENT NOT IN CONTRACT SO THAT THE SERVICE REQUIREMENTS ARE CORRECTLY TYPED, ADEQUATELY SIZED, AND ROUGHED-IN PROPERLY SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOK-UP, RESULTING IN A NEAT AND ORDERLY LOOKING INSTALLATION.
35. COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER DISCIPLINES FOR CONNECTION REQUIREMENTS AND RUN LOCATIONS TO PREVENT CONFLICTS.
36. LANDLORD TO APPROVE ALL ROOF PENETRATIONS. ALL ROOF WORK MUST BE BY LANDLORD'S APPROVED ROOFER.

## ABBREVIATIONS

<p>AAV AIR ADMITTANCE VALVE</p> <p>AC AIR COMPRESSOR</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AHJ AUTHORITIES HAVING JURISDICTION</p> <p>AS AQUASTAT</p> <p>BFF BELOW FINISHED FLOOR</p> <p>BFG BELOW FINISHED GRADE</p> <p>BTS BARRIER TYPE SEAL-TRAP PRIMER</p> <p>BTU BRITISH THERMAL UNIT</p> <p>CA COMPRESSED AIR</p> <p>CFH CUBIC FEET PER HOUR</p> <p>CL CENTER LINE</p> <p>CND CONDENSATE DRAIN</p> <p>CO CLEAN-OUT</p> <p>COOG CLEAN-OUT ON GRADE</p> <p>CW COLD WATER LINE</p> <p>DN DOWN</p> <p>ECO EXTERIOR CLEAN-OUT</p> <p>ET THERMAL EXPANSION TANK</p> <p>EWC ELECTRIC WATER COOLER</p> <p>EWH ELECTRIC WATER HEATER</p> <p>EX EXISTING</p> <p>FCO FLOOR CLEAN-OUT</p> <p>FD FLOOR DRAIN</p> <p>FM FORCE MAIN</p> <p>FND FUNNEL FLOOR DRAIN</p> <p>FS FLOOR SINK</p> <p>FW FILTERED WATER LINE</p> <p>GAS GAS LINE</p> <p>GC GENERAL CONTRACTOR</p> <p>GI GREASE INTERCEPTOR</p> <p>GPF GALLONS PER FLUSH</p> <p>GPM GALLONS PER MINUTE</p> <p>GR GAS REGULATOR</p> <p>GW GREASE WASTE LINE</p> <p>GWH GAS WATER HEATER</p> <p>HB HOSE BIBB</p> <p>HD HUB DRAIN</p> <p>HI HAIR INTERCEPTOR</p> <p>POINT OF CONNECTION TO EXISTING</p>	<p>HW HOT WATER LINE</p> <p>HWP HOT WATER RECIRCULATION PUMP</p> <p>HWR HOT WATER RETURN LINE</p> <p>HY WALL HYDRANT</p> <p>IVB ICE MAKER VALVE BOX</p> <p>IWH INSTANTANEOUS WATER HEATER</p> <p>LI LINT INTERCEPTOR</p> <p>MBH THOUSAND BTU'S PER HOUR</p> <p>NIC NOT IN CONTRACT</p> <p>NTS NOT TO SCALE</p> <p>OW OIL WASTE SANITARY LINE</p> <p>OVS OIL WASTE SEPARATOR</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>RD ROOF DRAIN</p> <p>RL RAIN LEADER</p> <p>RVB REFRIGERATOR VALVE BOX</p> <p>SAN SANITARY LINE</p> <p>SD SHOWER DRAIN</p> <p>SP SUMP PUMP</p> <p>SR SANITARY RISER</p> <p>TD TRENCH DRAIN</p> <p>TMV TEMPERATURE MIXING VALVE</p> <p>TPV TRAP PRIMER VALVE</p> <p>TW TEMPERED WATER LINE</p> <p>TYP. TYPICAL</p> <p>V VENT LINE</p> <p>VB VACUUM BREAKER</p> <p>VS VENT STACK</p> <p>VTR VENT THRU ROOF</p> <p>WC WATER COLUMN</p> <p>WCO WALL CLEAN-OUT</p> <p>WHA WATER HAMMER ARRESTOR</p> <p>WM WATER METER</p> <p>WR WATER RISER</p> <p>WS WASTE STACK</p> <p>WSV WASTE STACK VENT</p> <p>WVB CLOTHES WASHER VALVE BOX</p> <p>YH YARD HYDRANT</p> <p>POINT OF DISCONNECTION FROM EXISTING</p>
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NOTE:  
NO PLUMBING, GAS, MECHANICAL OR ELECTRICAL CONNECTIONS OR INSTALLATIONS SHALL BE MADE UNTIL THE GENERAL CONTRACTOR, SUB-CONTRACTOR AND OWNER/TENANT HAVE FIELD VERIFIED ALL EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER.

NOTE:  
CONTRACTORS SHALL VISIT THE SITE TO FAMILIARIZE WITH BUILDING CONDITIONS PRIOR TO SUBMITTING BID.

## PIPING

<p>————— SANITARY</p> <p>----- VENT</p> <p>----- COLD WATER</p> <p>----- HOT WATER</p> <p>⊥ STRAINER</p> <p>⊥ GLOBE VALVE</p> <p>⊥ BUTTERFLY VALVE</p> <p>⊥ ASME PRESSURE/TEMP RELIEF VALVE</p> <p>⊥ TEMPERED WATER MIXING VALVE</p> <p>⊥ SHUT-OFF VALVES (GATE/BALL VALVES)</p> <p>⊥ GAS BALL OR PLUG VALVE</p> <p>⊥ CIRCUIT BALANCING VALVE WITH MEMORY STOP</p> <p>⊥ PRESSURE REDUCING VALVE</p> <p>⊥ REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>⊥ CHECK VALVE</p> <p>⊥ BRANCH CONNECTIONS (TOP, BOTTOM, SIDE)</p> <p>⊥ TEE (PLAN, UP, DOWN)</p> <p>⊥ ELBOW (PLAN, UP, DOWN)</p> <p>⊥ CAP FOR FUTURE CONNECTION</p> <p>⊥ UNION</p> <p>⊙ CLEANOUT IN FLOOR</p> <p>⊙ CLEANOUT ON END OF PIPE</p> <p>⊙ TRAP, PLAN VIEW</p> <p>⊙ FLOOR DRAIN, FLOOR SINK</p> <p>⊥ HOSE BIBB</p> <p>→ DIRECTION OF FLOW</p> <p>--- GAS --- NATURAL GAS/PROPANE</p> <p>--- A --- COMPRESSED AIR</p> <p>----- EXISTING SANITARY (FADED)</p> <p>----- EXISTING VENT (FADED)</p> <p>----- EXISTING COLD WATER (FADED)</p> <p>----- EXISTING HOT WATER (FADED)</p> <p>----- EXISTING HOT WATER RETURN (FADED)</p> <p>--- --- DEMOLITION</p> <p>~ CONTINUATION</p> <p>⊙ WATER METER</p> <p>⊙ HOT WATER RECIRCULATION PUMP</p>	<p>----- HOT WATER RETURN</p> <p>----- GREASE WASTE</p> <p>----- WATER HEATER RELIEF</p> <p>----- FILTERED COLD WATER</p>
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## PROJECT PIPING NOTES

1. PROVIDE TRAPEZE PIPE HANGERS FOR PIPES 3 OR MORE. DOUBLE NUT U-BOLTS EVERY THIRD HANGER. U-BOLT SHALL BE LOOSELY FASTENED. INTENT IS NOT TO BIND OR HOLD PIPE, BUT ONLY TO PROVIDE LATERAL SEPARATION.
2. PROVIDE 1" X 1" X 1/8" ANGLE WELDED TO BOTH SIDES OF PIPE OF BAR JOIST IF PIPE HANGAR IS MORE THAN 6" AWAY FROM PANEL POINTS.
3. PROVIDE WATER HAMMER ARRESTORS FOR ALL GANG TOILET AREAS OR ANY OTHER SINGLE OR MULTIPLE WATER USING DEVICE.
4. FASTEN ALL INSULATION PIPE SHIELDS TO PIPE INSULATION WITH ADHESIVE.
5. ALL PIPE SUPPORT SYSTEMS SHALL NOT CRUSH THE INSULATION WHEN RESTING UPON THE SUPPORT. THE USE OF METAL SADDLES IS NECESSARY WHEN THE WEIGHT OF PIPE EXCEEDS THE WEIGHT SUPPORT LIMIT OF THE INSULATION.
6. PIPE SIZES MAY BE SHOWN FOR THE SAME PIPING ON MORE THAN ONE PLAN. IN CASE OF PIPE SIZE DISCREPANCY, THE LARGER PIPE SIZE SHALL BE CONSIDERED CORRECT DURING THE BIDDING AND DURING CONSTRUCTION UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT/ENGINEER OTHERWISE.
7. PROVIDE SHUT-OFF VALVES FOR BOTH HOT AND COLD DOMESTIC WATER AT ALL RESTROOM LOCATIONS AND HEAT TRAPS FOR WATER HEATERS.
8. PROVIDE 1" INSULATION ON HOT WATER PIPING. REFER TO TABLE C403.2.10 OF THE 2020 FLORIDA ENERGY CONSERVATION CODE.
9. PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE INSULATED AND HAVE SPACE SEALED WITH FIRE STOP MATERIAL.
10. PROVIDE A POSI-SET SYSTEM GAS CONNECTION SYSTEM FOR ALL GAS APPLIANCES.

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

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370 15th Ave S, Units A & B  
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904.249.0688 p  
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5760 ARLINGTON ROAD  
JACKSONVILLE, FLORIDA 32211

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OPTION 2

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PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE DESCRIPTION	MOUNTING HEIGHT	REMARKS	ROUGH-IN SIZES			
				COLD WATER	HOT WATER	WASTE	VENT
P-1A	TANK TYPE WATER CLOSET - (ADA)	SEAT @ 17"-19" AFF	ADA TANK TYPE WATER CLOSET, FLOOR MOUNTED, WHITE VITREOUS CHINA, BOTTOM OUTLET, SIPHON JET, 1.6 GPF, ELONGATED BOWL, WHITE SOLID COMMERCIAL HEAVY-DUTY PLASTIC ELONGATED OPEN FRONT SEAT LESS COVER. WATER CLOSET SHALL BE PROVIDED WITH CHROME-PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE FLUSH HANDLE ON APPROACH SIDE OF STALL.	1/2"	N/A	4"	2"
P-2A	LAVATORY WALL MOUNTED (ADA)	RIM @ 34" AFF	ADA LAVATORY, WALL MOUNT, WHITE VITREOUS CHINA, APPROXIMATE DIMENSION OF 21" WIDE BY 17" FRONT TO REAR. PROVIDE ADA 4" CENTER SET SINGLE LEVER HANDLE FAUCET OR WIDESPREAD WING HANDLE FAUCET, AND 0.5 GPM AERATOR. PROVIDE LAVATORY COMPLETE WITH GRID DRAIN, CAST BRASS 1-1/4" TAILPIECE AND ADJUSTABLE P-TRAP, CHROME PLATED 3/8" FLEXIBLE SUPPLIES AND ANGLE STOP VALVES IN CHROME PLATED BRASS. PROVIDE COMPATIBLE CARRIER. PROVIDE PROTECTIVE ADA PIPE COVER. PROVIDE DEDICATED ANTI-SCALD VALVE; REFER TO PLUMBING SPECIALTIES SCHEDULE. COORDINATE WITH OWNER UPON PURCHASING AND INSTALLATION.	1/2"	1/2"	1-1/2"	2"
P-3	UTILITY TUB	FLOOR MOUNTED	FREE STANDING UTILITY TUB, SINGLE COMPARTMENT, WHITE BAKED ENAMEL, 2 HOLE, APPROXIMATELY 23"x23"x14" FIBERGLASS MOLDED TUB WITH LAUNDRY FAUCET WITH VACUUM BREAKER AND HOSE CONNECTION ADAPTER, 2.2 GPM AERATOR AND STAINLESS STEEL GRID DRAIN.	1/2"	1/2"	2"	2"
P-4A	ELECTRIC WATER COOLER TWO-LEVEL FOUNTAIN (ADA)	LOWER SPOUT @ 36" AFF (MAX.); UPPER SPOUT @ 38" TO 43" AFF.	ADA ELECTRIC WATER COOLER, WALL MOUNT, ADA COMPLIANT, 8.0 GPH CAPACITY, HORIZONTAL CONFIGURATION, 1-1/4" ADJUSTABLE P-TRAP, 3/8" FLEXIBLE SUPPLIES AND ANGLE STOP VALVES IN CHROME PLATED BRASS. PROVIDE OPTIONAL ACCESSORY APRON AS NECESSARY TO MEET ADA PROTRUDING OBJECTS GUIDELINES.	1/2"	N/A	1-1/2"	2"

- NOTES:
- VENT CONNECTIONS INDICATED APPLY TO INDIVIDUALLY VENTED FIXTURES AND ARE NOT APPLICABLE TO CIRCUIT VENTS, WET VENTS, COMBINATION DRAIN AND VENT SYSTEMS, ETC. REFER TO PLANS AND RISERS FOR SYSTEM CONFIGURATIONS AND SIZES FOR THESE SYSTEMS.
  - FLEXIBLE SUPPLIES, TRAPS, TAILPIECES AND OTHER ACCESSORIES NOT IN WALL CAVITIES SHALL BE STAINLESS STEEL OR CHROME PLATED.
  - REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.
  - CONTRACTOR SHALL VERIFY FIXTURE SELECTIONS WITH OWNER PRIOR TO PURCHASING AND ROUGH-IN.
  - GENERAL CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO PURCHASING ALL PLUMBING FIXTURES.

INSTANTANEOUS WATER HEATER SCHEDULE - ELECTRIC									
MARK	FIXTURE DESCRIPTION	LOCATION	CAPACITY kW (@120 V)	CAPACITY		WATER CONNECTION SIZE (")	ACTIVATION FLOW (GPM)	SETPOINT (°F)	ELECTRICAL (V/PH/Hz)
				(GPM)	TEMP. RISE (°F)				
IWH-1	INSTANTANEOUS ELECTRIC WATER HEATER	TOILET ROOMS	2.4	0.4	41	1/2"	≤ 0.35	95°-140°	120/1/60
IWH-2	INSTANTANEOUS ELECTRIC WATER HEATER	UTILITY TUB	3.6	0.4	61	1/2"	≤ 0.35	95°-140°	120/1/60

- NOTES AND ACCESSORIES:
- DESIGN BASED ON CHRONOMITE MODEL #SR-20L/120 FOR IWH-1 AND CHRONOMITE MODEL #SR-30L/120 FOR IWH-2, OR APPROVED EQUIVALENT.
  - PROVIDE THERMOSTATIC CONTROL TO SUPPORT FULL RANGE OF FLOW AT STABLE SETPOINT AT TEMPERATURE RANGE INDICATED.
  - PROVIDE HIGH LIMIT TEMPERATURE SWITCH SET AT NO GREATER THAN 110°F.
  - UL LISTED.
  - MOUNTING HEIGHT PER MANUFACTURER.
  - PROVIDE NEMA 4X DISCONNECT OPTION, IF NECESSARY.

DRAINAGE AND CLEANOUT SCHEDULE	
MARK	REMARKS
FD	FLOOR DRAIN - CAST-IRON BODY WITH ADJUSTABLE 7" ROUND STRAINER HEAD TOP ON 3" BODY, INTEGRAL FLASHING COLLAR, SEEPAGE OPENINGS, POLISHED NICKEL BRONZE STRAINER FINISH, NEO-LOCK OUTLET, TRAP PRIMER CONNECTION, AND TAP AND TY-SEAL OUTLET.
COOG	CLEANOUT ON GRADE - PVC CLEANOUT WITH RAISED SQUARE PLUG INSTALLED UNDER ACCESS HOUSING AS DETAILED. ASME A112.6.3 EXTRA HEAVY DUTY TRAFFIC RATED.
WCO	WALL CLEANOUT - RAISED SQUARE OR RECESSED SQUARE PLUG WITH ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER.

- NOTES:
- REFER TO MANUFACTURER'S DATA FOR INSTALLATION AND CONNECTION SIZES.

PLUMBING SPECIALTIES SCHEDULE		
MARK	FIXTURE DESCRIPTION	REMARKS
HY	WALL HYDRANT 18" AFG	ASSE 1011 MILD CLIMATE WALL HYDRANT WITH INTEGRAL ANTI-SIPHON VACUUM BREAKER. PROVIDE POLISHED BRONZE BOX FACE, RECESSED BOX WITH LOCKING COVER AND ASSE 1052 APPROVED BACKFLOW PREVENTER WITH CHECK VALVES.
WHA	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR, STAINLESS STEEL OR COPPER CONSTRUCTION, BELLOWS OR PISTON TYPE, PRECHARGED, RATED FOR 250 PSI AT 300°F. SIZE AND INSTALL PER PDI GUIDELINES FOR FULL PROTECTION OF ALL FIXTURES. ASSE 1010 COMPLIANT.
TMV-P	POINT OF USE THERMOSTATIC MIXING VALVE (MOUNT UNDER SINK)	THERMOSTATIC MIXING VALVE, POINT OF USE ANTI-SCALD VALVE. VALVE SHALL BE BRONZE BODY WITH INTEGRAL CHECK VALVES ON INLET, AND AN ADJUSTMENT CAP WITH LOCKING FEATURE. PROVIDE DEDICATED VALVE FOR EACH LAVATORY AND SINK LOCATION. 0.4 GPM MIN. FLOW RATE, 5.5 GPM MAX. FLOW RATE, 100 PSI MAX. PRESSURE DROP AT MAX. FLOW. LEONARD 270-LF OR APPROVED EQUAL. ASSE STANDARDS 1070 AND 1017 COMPLIANT. ADJUSTABLE DOWN TO 110°F. VALVE TO BE LABELED CSA B125 CERTIFIED.
TPV-1	TRAP PRIMER - GRAVITY FED TAILPIECE	TRAP PRIMER FITTING WITH GRAVITY FED 1/2" STAINLESS STEEL FLEXIBLE PRIMING MAKE UP WATER LINE TO WALL CAVITY WITH 5/8" COMPRESSION FITTINGS, AND CHROME PLATED ESCUTCHEONS. ASSE 1044 LISTED.
TPV-2	TRAP PRIMER VALVE - MECHANICAL SINGLE TRAP	TRAP PRIMER VALVE, CORROSION RESISTANT BRASS WITH 1/2" INLET AND OUTLET CONNECTIONS. PROVIDE UNION UPSTREAM OF EACH TRAP PRIMER VALVE. ASSE 1018 LISTED.

AIR COMPRESSOR SCHEDULE							
MARK	TYPE	CAPACITY (AIRFLOW AT DELIVERED PRESSURE)		CFM PUMP DISPLACEMENT	RECEIVER	MOTOR	ELECTRICAL
		SCFM	PSIG	CFM	GAL	HP	V/PH/Hz
AC	A	24	175	32.6	80	7.5	230/1/60

- NOTES AND ACCESSORIES:
- AIR COMPRESSOR TO INCLUDE AIR FILTER, OIL FILTER, AND DRAIN PLUG.
  - BASIS OF DESIGN: NAPA MODEL #82378VAT
  - COMPRESSED AIR PIPING SHALL CONFORM TO ASME B31.1.
  - MAINTAIN MAXIMUM SOUND LEVEL OF 84 Dba.

COMPRESSOR TYPE:  
TYPE A  
DUAL STAGE RECIPROCATING, VERTICAL RECEIVER.

WATER HAMMER ARRESTOR SCHEDULE				
IP.S.	F.U. RATING	SIoux CHIEF	UNIT SIZE	REMARKS
1/2"	1-11	652-A	A	P.D.I. CERTIFIED
3/4"	12-32	653-B	B	P.D.I. CERTIFIED
1"	33-60	654-C	C	P.D.I. CERTIFIED
1"	61-113	655-D	D	P.D.I. CERTIFIED
1"	114-154	656-E	E	P.D.I. CERTIFIED
1"	155-330	657-F	F	P.D.I. CERTIFIED

NOTE: ALL WATER HAMMER ARRESTORS PROVIDED MUST MEET ASSE 1010 AND MANUFACTURER'S REQUIREMENTS. SCHEDULE BASED ON STANDARD PDI-WH-201.

NO FIXTURES EXCLUDE

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DSIAE**  
DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 P  
904.241.0691 F  
www.dsae.net  
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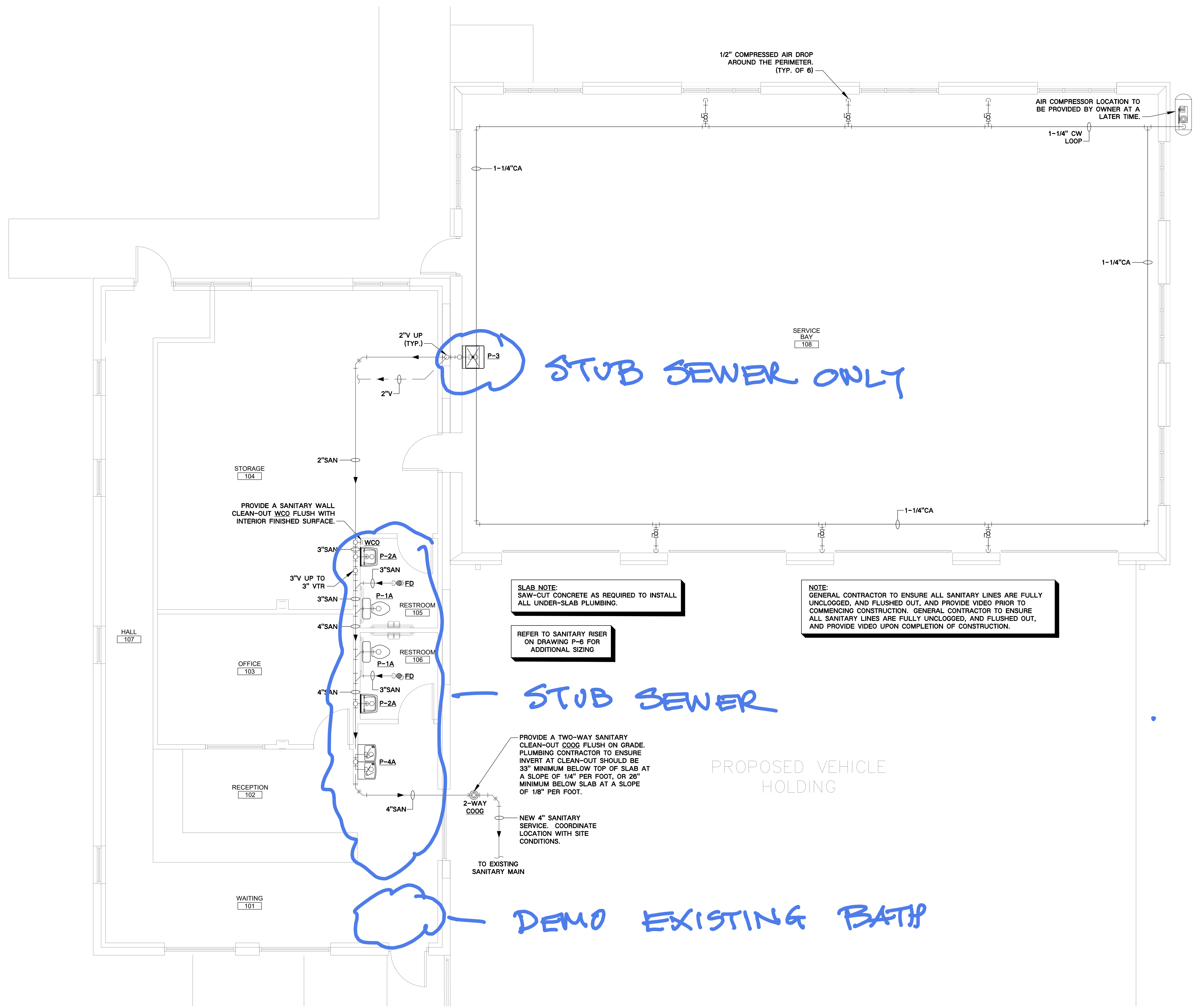
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JACKSONVILLE, FLORIDA 32211

SHEET TITLE: PLUMBING SCHEDULES		
NO.	DATE	REVISION

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DATE: 03-16-23

SHEET  
**P-2**  
**OPTIM2**

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1/2" COMPRESSED AIR DROP  
AROUND THE PERIMETER.  
(TYP. OF 6)

AIR COMPRESSOR LOCATION TO  
BE PROVIDED BY OWNER AT A  
LATER TIME.

1-1/4" CW  
LOOP

1-1/4" CA

SERVICE  
BAY  
108

**STUB SEWER ONLY**

STORAGE  
104

PROVIDE A SANITARY WALL  
CLEAN-OUT W/CO FLUSH WITH  
INTERIOR FINISHED SURFACE.

3" SAN

3" V UP TO  
3" VTR

3" SAN

4" SAN

HALL  
107

OFFICE  
103

4" SAN

RECEPTION  
102

WAITING  
101

WCO

P-2A

3" SAN

FD

P-1A

RESTROOM  
105

3" SAN

FD

P-1A

RESTROOM  
106

3" SAN

P-2A

4" SAN

P-2A

4" SAN

P-4A

SLAB NOTE:  
SAW-CUT CONCRETE AS REQUIRED TO INSTALL  
ALL UNDER-SLAB PLUMBING.

REFER TO SANITARY RISER  
ON DRAWING P-6 FOR  
ADDITIONAL SIZING

**STUB SEWER**

PROVIDE A TWO-WAY SANITARY  
CLEAN-OUT COOG FLUSH ON GRADE.  
PLUMBING CONTRACTOR TO ENSURE  
INVERT AT CLEAN-OUT SHOULD BE  
33" MINIMUM BELOW TOP OF SLAB AT  
A SLOPE OF 1/4" PER FOOT, OR 26"  
MINIMUM BELOW SLAB AT A SLOPE  
OF 1/8" PER FOOT.

NEW 4" SANITARY  
SERVICE. COORDINATE  
LOCATION WITH SITE  
CONDITIONS.

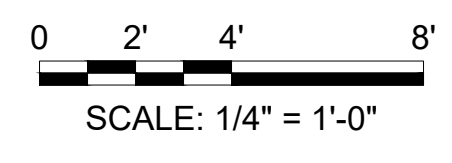
TO EXISTING  
SANITARY MAIN

NOTE:  
GENERAL CONTRACTOR TO ENSURE ALL SANITARY LINES ARE FULLY  
UNCLOGGED, AND FLUSHED OUT, AND PROVIDE VIDEO PRIOR TO  
COMMENCING CONSTRUCTION. GENERAL CONTRACTOR TO ENSURE  
ALL SANITARY LINES ARE FULLY UNCLOGGED, AND FLUSHED OUT,  
AND PROVIDE VIDEO UPON COMPLETION OF CONSTRUCTION.

PROPOSED VEHICLE  
HOLDING

**DEMO EXISTING BATH**

**SANITARY WASTE PLAN**  
SCALE: 1/4"=1'-0"



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Jacksonville Beach, FL 32250  
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904.241.0691 f  
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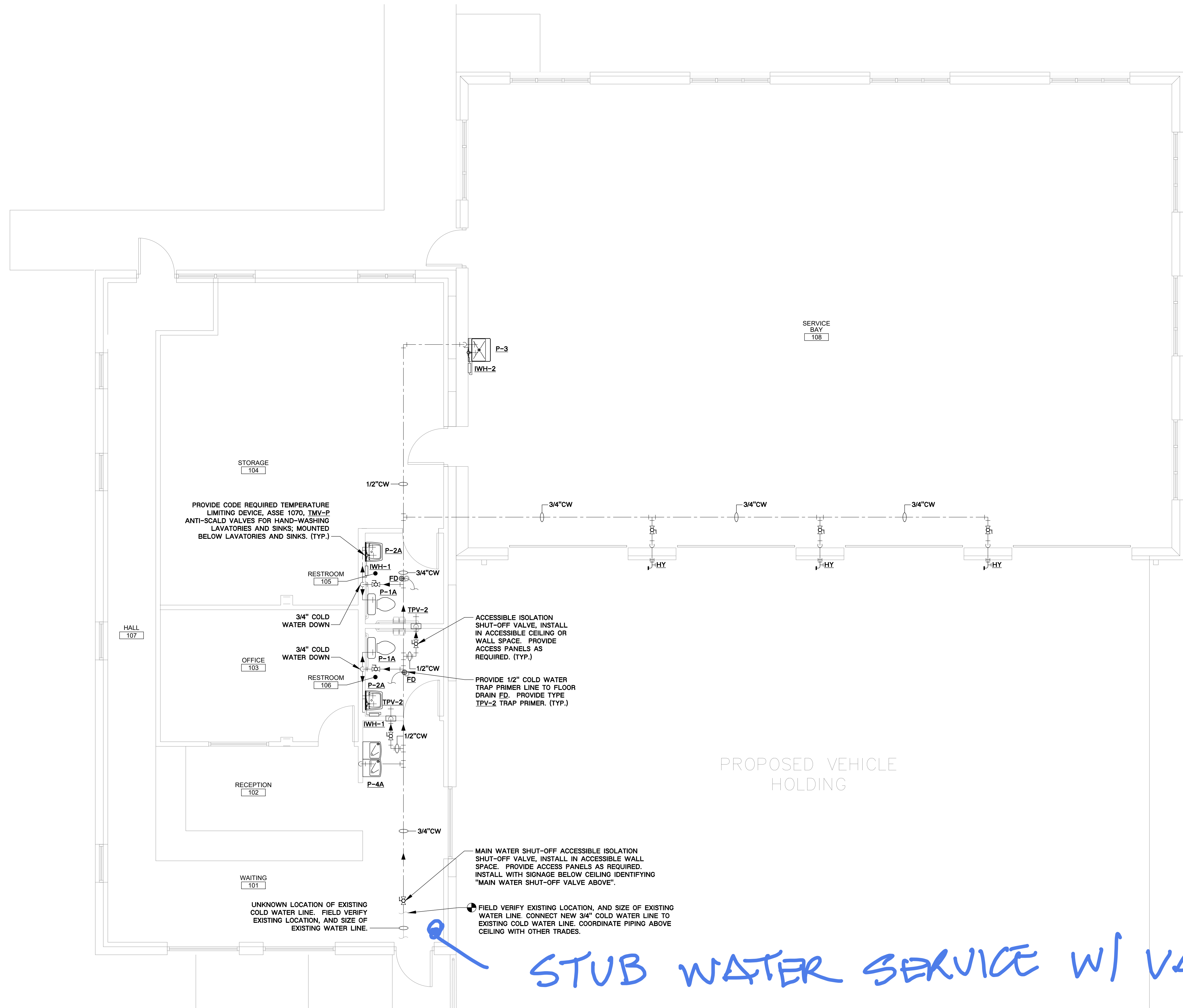
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SHEET TITLE: SANITARY WASTE PLAN	
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SHEET  
**P-3**  
**OPTION 2**

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PROVIDE CODE REQUIRED TEMPERATURE LIMITING DEVICE, ASSE 1070, TMV-P ANTI-SCALD VALVES FOR HAND-WASHING LAVATORIES AND SINKS, MOUNTED BELOW LAVATORIES AND SINKS. (TYP.)

ACCESSIBLE ISOLATION SHUT-OFF VALVE. INSTALL IN ACCESSIBLE CEILING OR WALL SPACE. PROVIDE ACCESS PANELS AS REQUIRED. (TYP.)

PROVIDE 1/2" COLD WATER TRAP PRIMER LINE TO FLOOR DRAIN FD. PROVIDE TYPE TPV-2 TRAP PRIMER. (TYP.)

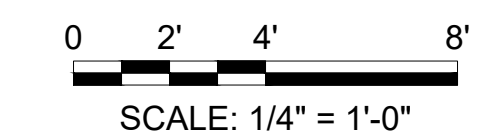
MAIN WATER SHUT-OFF ACCESSIBLE ISOLATION SHUT-OFF VALVE. INSTALL IN ACCESSIBLE WALL SPACE. PROVIDE ACCESS PANELS AS REQUIRED. INSTALL WITH SIGNAGE BELOW CEILING IDENTIFYING "MAIN WATER SHUT-OFF VALVE ABOVE".

UNKNOWN LOCATION OF EXISTING COLD WATER LINE. FIELD VERIFY EXISTING LOCATION, AND SIZE OF EXISTING WATER LINE.

FIELD VERIFY EXISTING LOCATION, AND SIZE OF EXISTING WATER LINE. CONNECT NEW 3/4" COLD WATER LINE TO EXISTING COLD WATER LINE. COORDINATE PIPING ABOVE CEILING WITH OTHER TRADES.

STUB WATER SERVICE W/ VALVE

**DOMESTIC WATER PLAN**  
SCALE: 1/4" = 1'-0"



CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

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370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
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904.241.0691 f  
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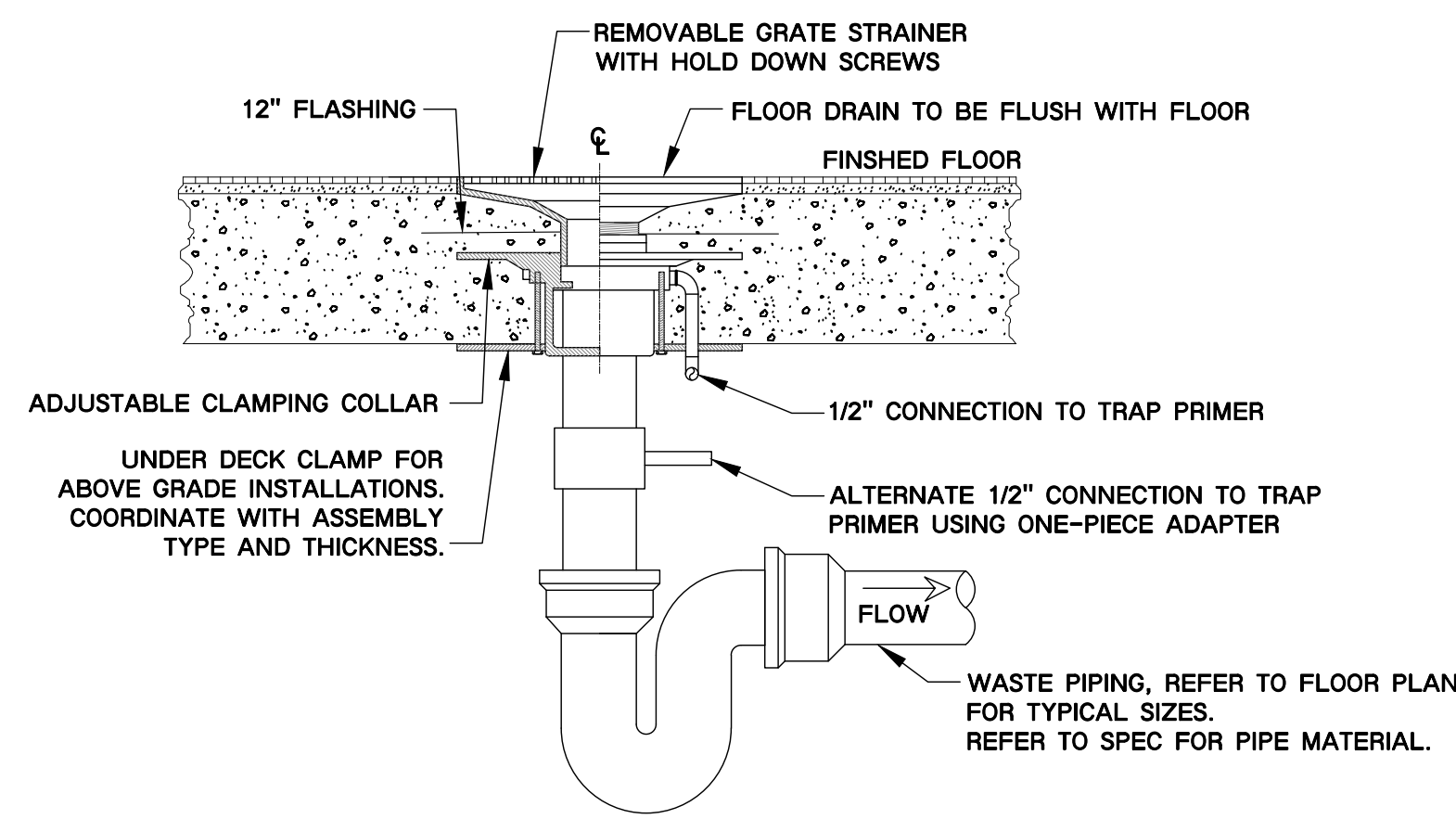
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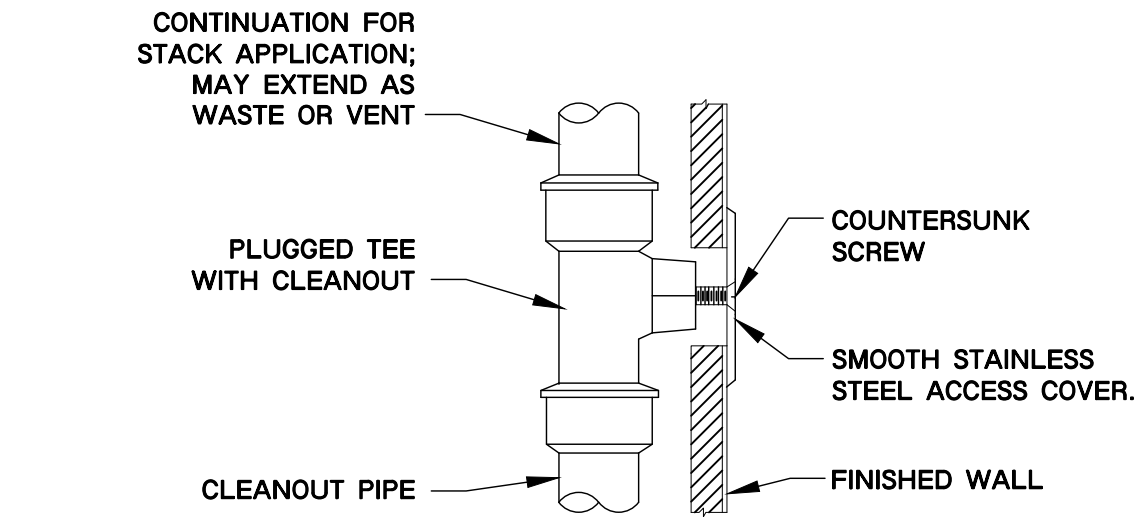
SHEET  
**P-4**  
**OPTION 2**

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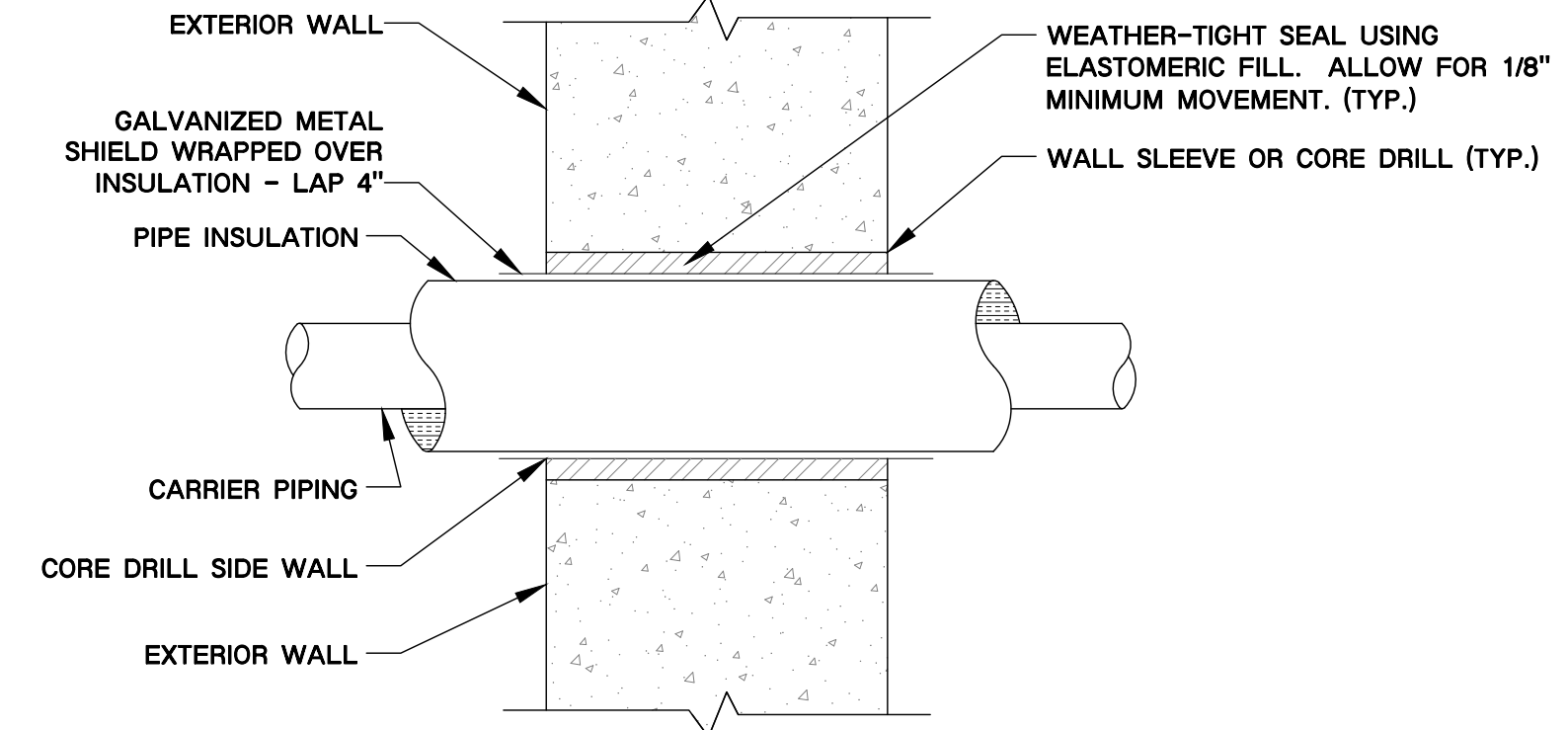
### FLOOR DRAIN DETAIL (FD)

SCALE: N.T.S.



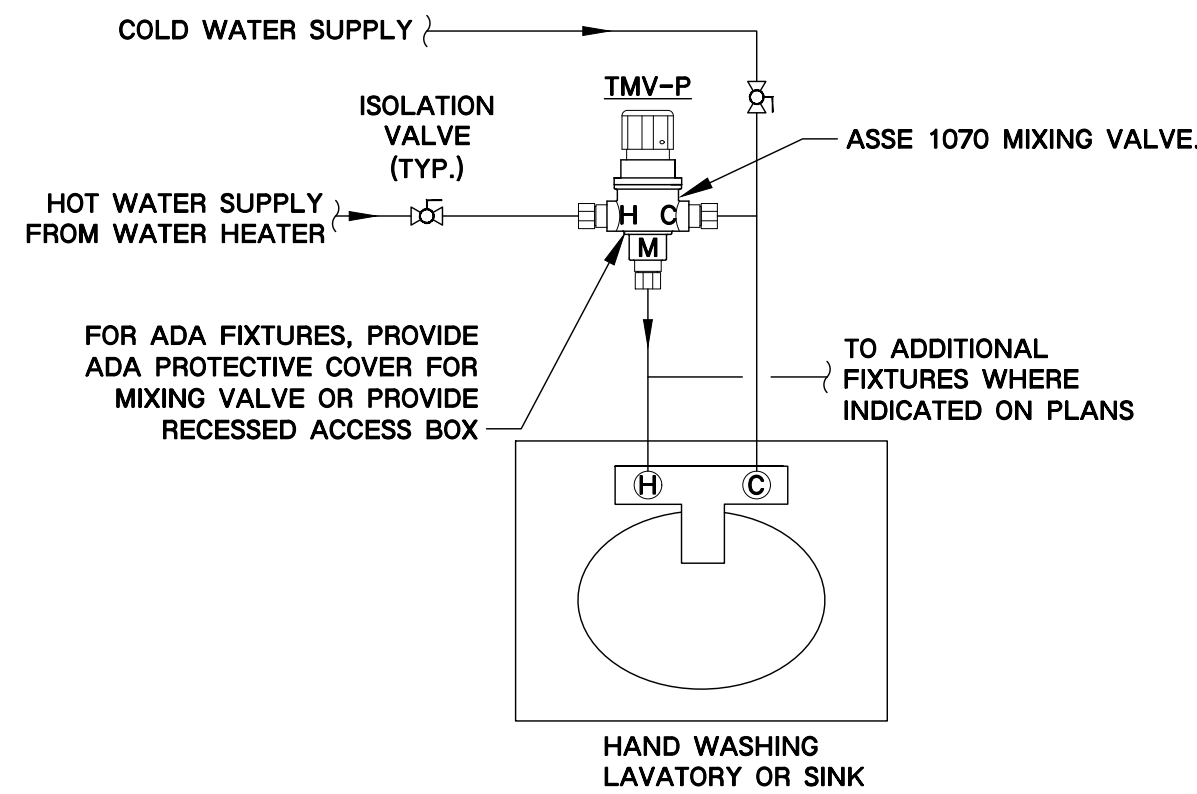
### WALL CLEANOUT DETAIL (WCO)

SCALE: N.T.S.



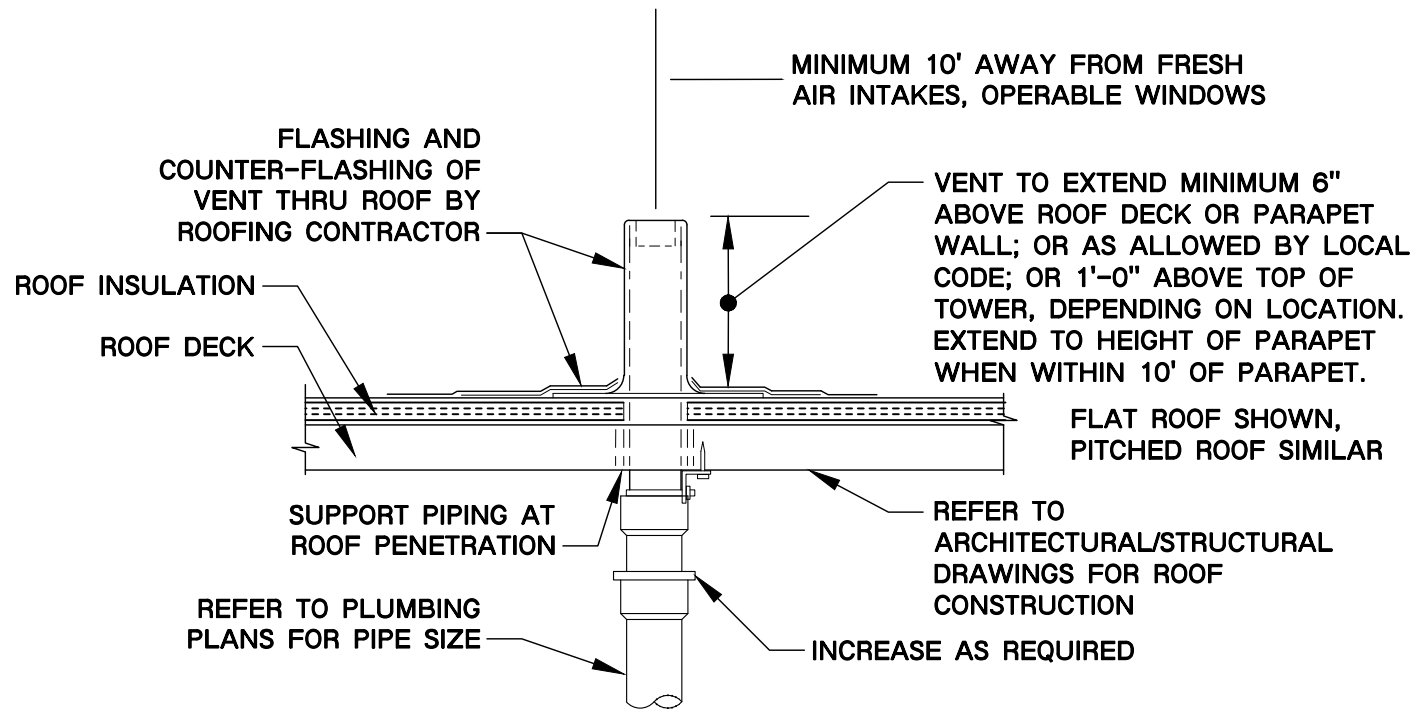
### TYPICAL PIPE SLEEVE THRU WALL DETAIL

SCALE: N.T.S.



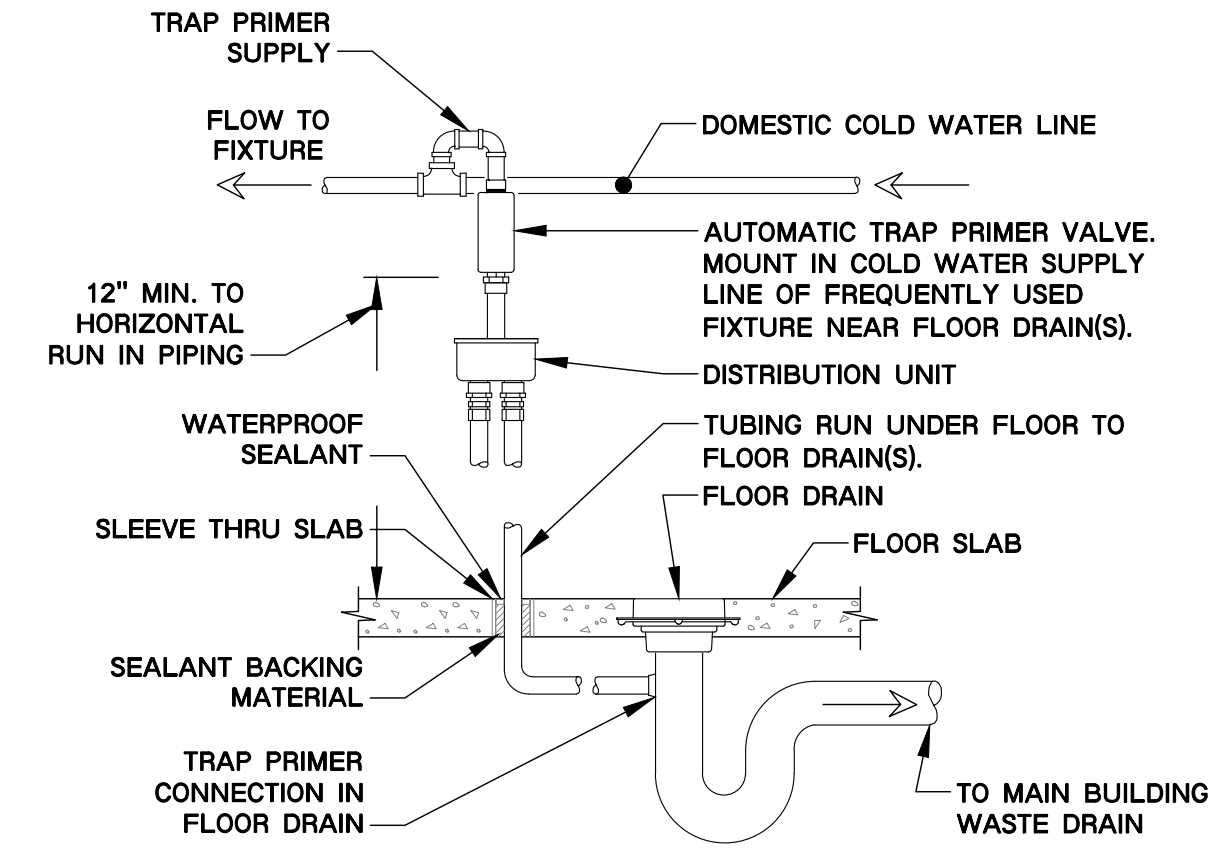
### ANTI-SCALD DEVICE DETAIL (TMV-P)

SCALE: N.T.S.



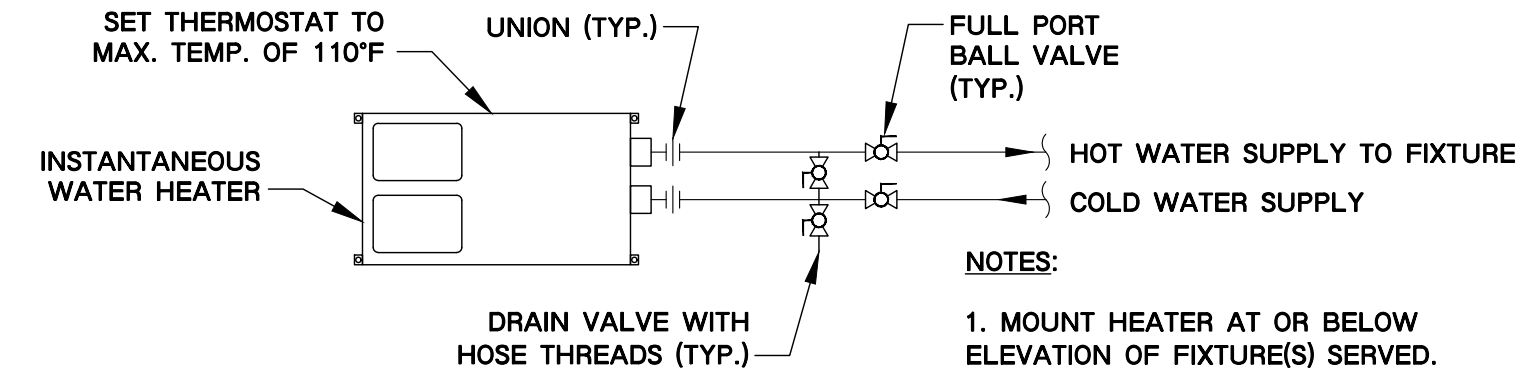
### VENT THRU ROOF DETAIL (VTR)

SCALE: N.T.S.



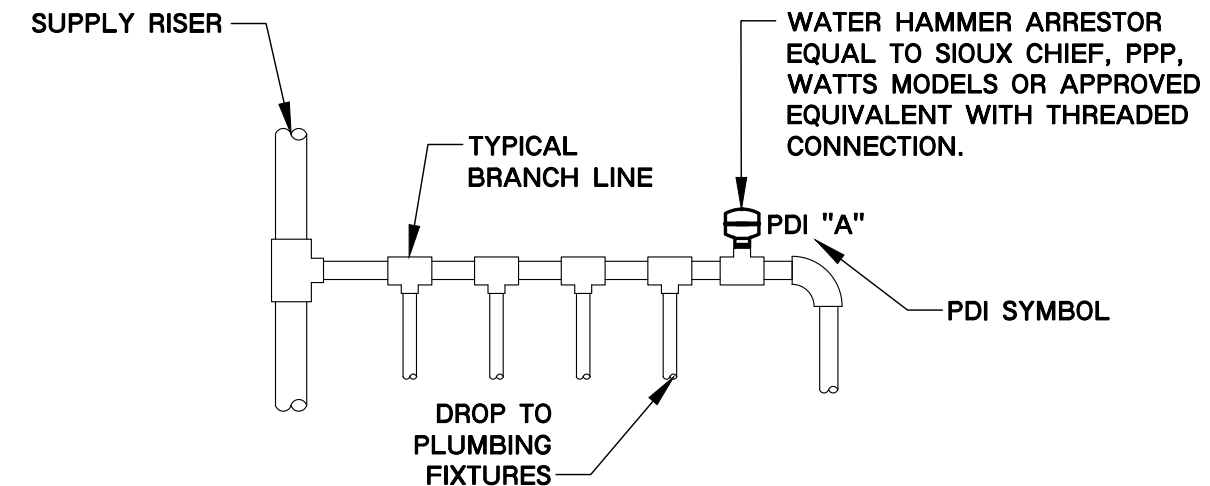
### TRAP PRIMER DETAIL (TPV)

SCALE: N.T.S.



### INSTANTANEOUS ELECTRIC WATER HEATER DETAIL (IWH)

SCALE: N.T.S.

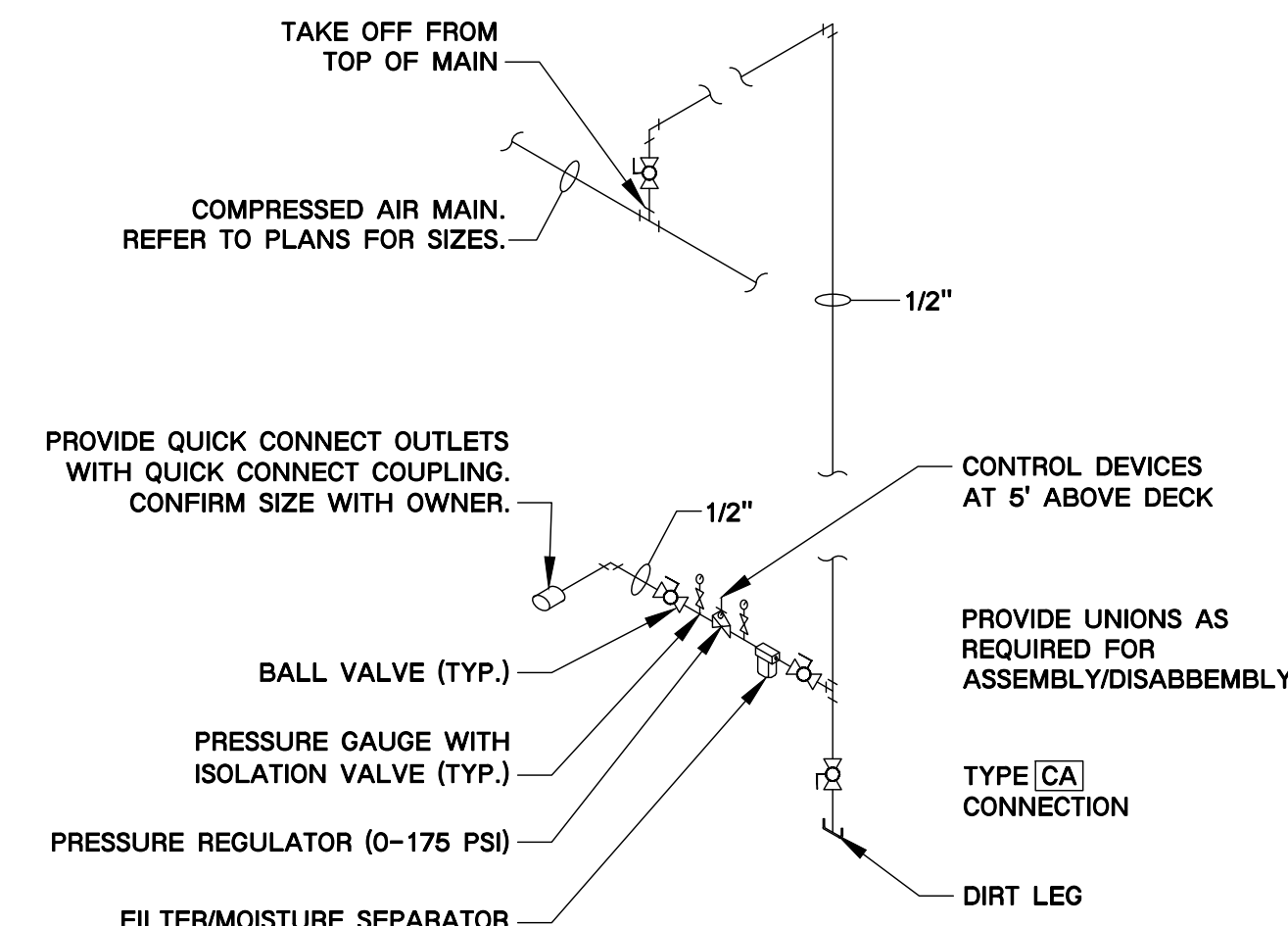


### WATER HAMMER NOTES:

- DO NOT PROVIDE AIR CHAMBERS.
- PROVIDE A WATER HAMMER ARRESTOR ON EACH HOT AND COLD WATER DROP.
- PREFERRED INSTALL WATER HAMMER ARRESTORS AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.
- ONE WATER HAMMER ARRESTOR PER 20 FEET OF LINE AND ANOTHER FOR BRANCHES OVER 20 FEET IN LENGTH.
- THE SUM OF THE FIXTURE UNIT RATING OF UNITS OVER 20 FEET IN LENGTH SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.
- WATER ARRESTORS SHOULD ALWAYS BE INSTALLED SO THAT THERE IS AN UNOBSTRUCTED SHOCK PATH TO THE ARRESTOR. INSTALL IN-LINE WITH WATER FLOW IF POSSIBLE.
- WATER ARRESTOR SHOULD ALWAYS BE PLACED AS NEAR TO THE SOURCE OF SHOCK AS POSSIBLE.
- ALL WATER ARRESTORS PROVIDED MUST MEET ASSE 1010 AND MANUFACTURER'S REQUIREMENTS. INSTALL PER PDI STANDARDS AND MANUFACTURER'S REQUIREMENTS.
- INSTALL IN HORIZONTAL OR VERTICAL POSITIONS ONLY.
- PROVIDE ACCESSIBILITY TO WATER HAMMER ARRESTORS WHERE REQUIRED BY LOCAL CODE.
- PROVIDE WATER HAMMER ARRESTORS FOR ALL QUICK-CLOSING VALVES.

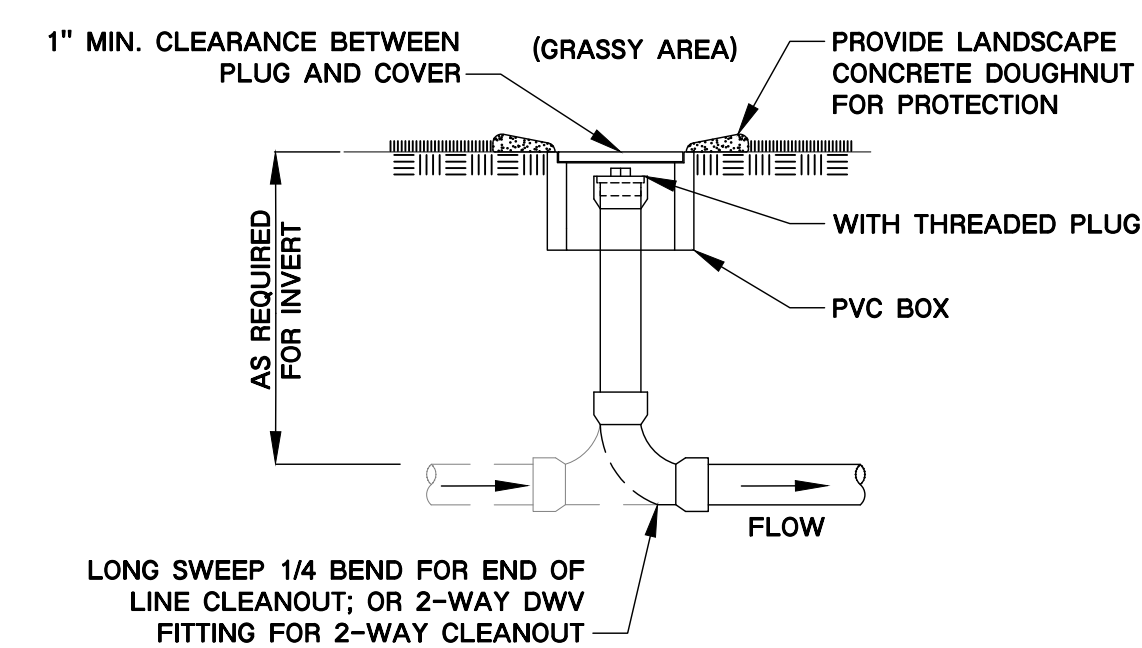
### WATER HAMMER ARRESTOR DETAIL

SCALE: N.T.S.



### COMPRESSED AIR OUTLET DETAIL

SCALE: N.T.S.



### EXTERIOR CLEANOUT ON GRADE DETAIL (COOG)

SCALE: N.T.S.

CAREN M. DOHERTY, P.E.  
FL. P.E. #65021

**DSAE**  
**DOHERTY SOMMERS ARCHITECTS ENGINEERS, INC.**  
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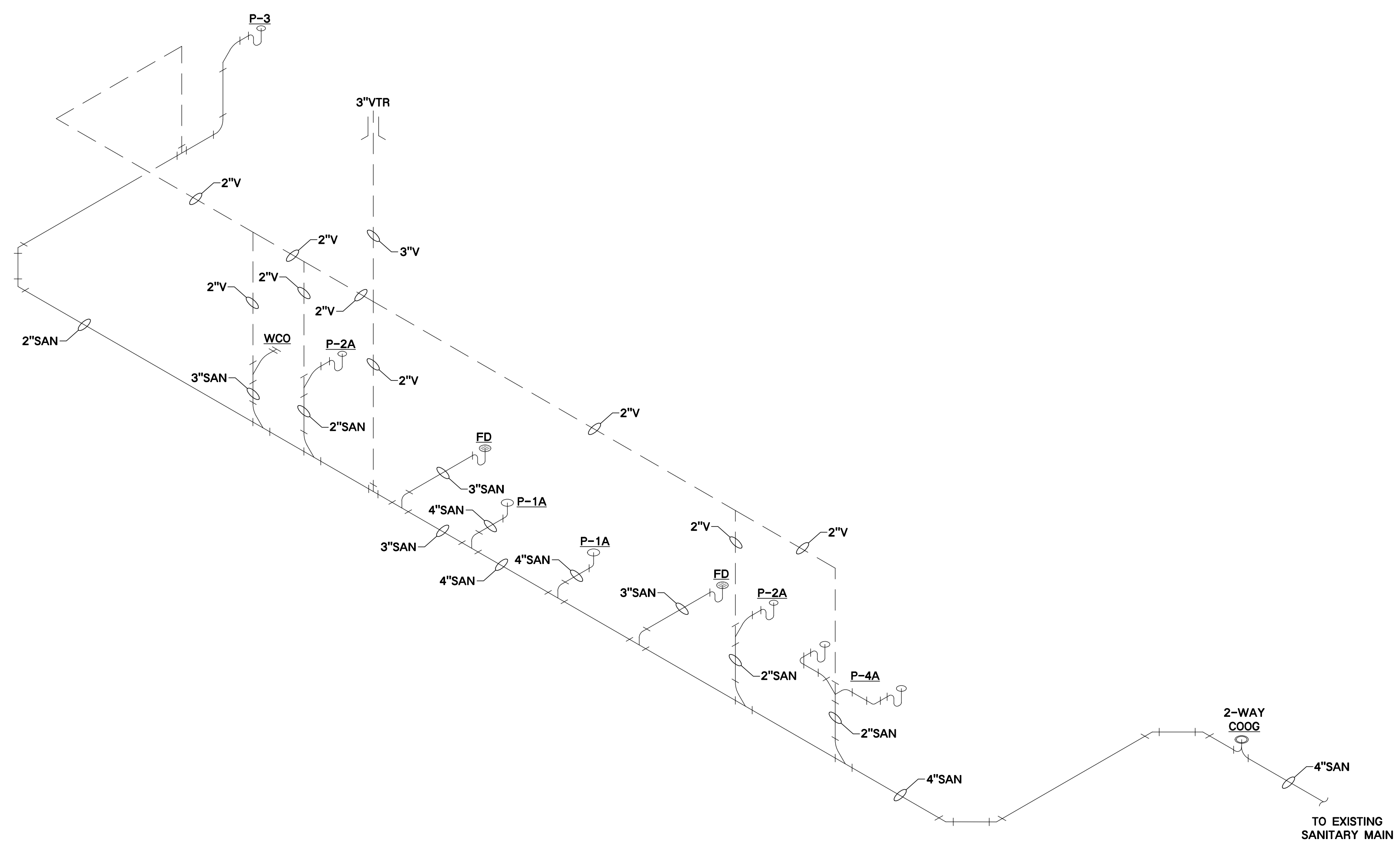
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SHEET  
**P-5**  
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**SANITARY RISER DIAGRAM**  
SCALE: N.T.S.

CAREN M. DOHERTY, P.E.  
FL. P.E. #55021

**DSAE**  
DOHERTY SOMMERS  
ARCHITECTS ENGINEERS, INC.  
370 15th Ave S, Units A & B  
Jacksonville Beach, FL 32250  
904.249.0688 p  
904.241.0691 f  
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SHEET  
**P-6**  
*OPTION 2*

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