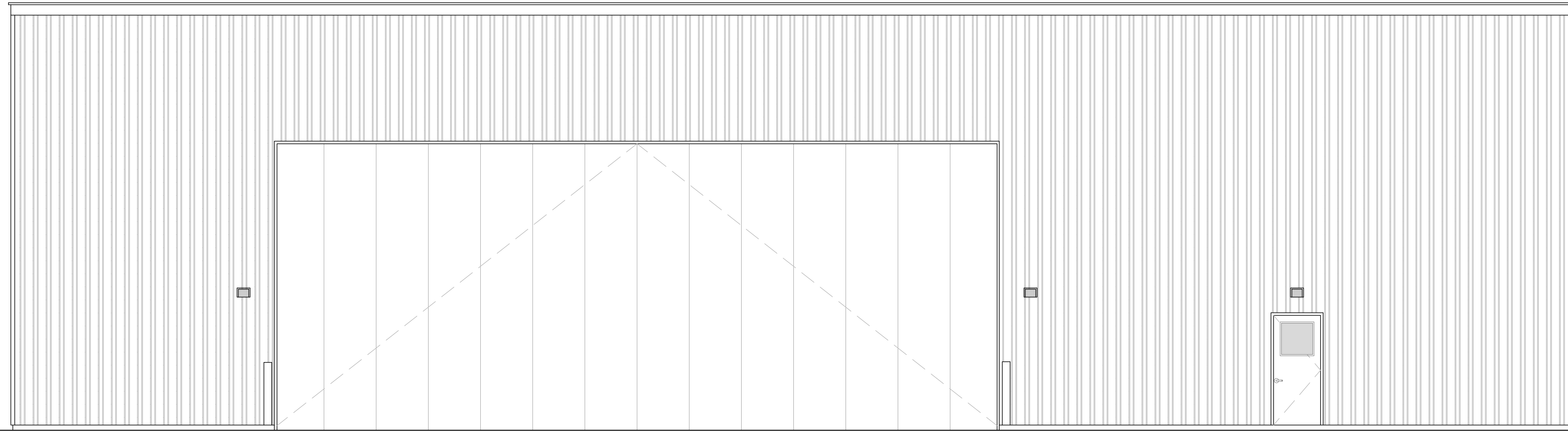


New Hangar

Bay Co. Sheriffs Office

Hwy 2300, Southport, FL 32409



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M001 HVAC LEGEND, SCHEDULES, NOTES, AND DETAIL
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P001 PLUMBING LEGEND, SCHEDULE, DETAILS, NOTES, & RISER DIAGRAMS
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E-001 ELECTRICAL LEGEND, SCHEDULE, & NOTES
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B2	PROJECT DRAWING INDEX
SCALE: NTS	



REVISIONS:

No.	Description	Date

COVER SHEET

PROJECT NUMBER **23084**
DATED 03.15.2024

G001
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B1	PROPOSED BUILDING ELEVATION
SCALE: NTS	

ARCHITECT:	CIVIL:	STRUCTURAL:	MECHANICAL / ELECTRICAL / PLUMBING
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A1	PROJECT TEAMS AND DISCIPLINE ALLOCATION
SCALE: NTS	

A2	PROJECT LOCATION MAP
SCALE: NTS	

- APPLICABLE BUILDING CODES**
- FLORIDA BUILDING CODE BUILDING (FBC-B) 2023, 8th EDITION
 - FLORIDA BUILDING CODE ACCESSIBILITY (FBC-A) 2023, 8th EDITION
 - FLORIDA BUILDING CODE ENERGY CONSERVATION (FBC-EC) 2023, 8th EDITION
 - FLORIDA BUILDING CODE FUEL GAS (FBC-FG) 2023, 8th EDITION
 - FLORIDA BUILDING CODE MECHANICAL (FBC-M) 2023, 8th EDITION
 - FLORIDA BUILDING CODE PLUMBING (FBC-P) 2023, 8th EDITION
 - FLORIDA FIRE PREVENTION CODE (FFPC) 8TH EDITION
 - NATIONAL ELECTRIC CODE (NEC) 2023 EDITION

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
ONE TENANT - STORAGE GROUP S

CHAPTER 5 - GENERAL HEIGHTS & AREAS
A. BUILDING AREAS AND HEIGHTS

- BUILDING FLOOR AREA = 4,966 GSF
- STORY(S) = 1 STORY
- HEIGHT = 27'-0" FT

B. ALLOWABLE HEIGHTS AND BUILDING AREAS (TABLE 503)

- CONSTRUCTION TYPE = II (CHAPTER 6)
- FIRE RESISTANT RATING = "B"
- BUILDING HEIGHT LIMIT = 55'-0"
- MAXIMUM STORES = 2
- MAXIMUM AREA PER FLOOR = 9,500 SF

CHAPTER 6 - TYPES OF CONSTRUCTION
A. CONSTRUCTION CLASSIFICATION=TYPE II B (SECTION 602.2)

B. FIRE RESISTANT RATING REQUIREMENTS (HOURS) FOR BUILDING ELEMENTS (TABLE 601) - TYPE II B

- STRUCTURAL FRAME = 0 HOURS
- BEARING WALLS - EXTERIOR = 0 HOURS
- BEARING WALLS - INTERIOR = 0 HOURS
- NON-BEARING WALLS AND PARTITIONS - EXTERIOR = SEE TABLE 602

- <5 = 1 HOURS
- >5 TO <10 = 1 HOURS
- >10 TO <20 = 0 HOURS
- >20 TO <30 = 0 HOURS
- >30 = 0 HOURS

C. NON-BEARING WALLS AND PARTITIONS - INTERIOR = 0 HOURS

- FLOOR CONSTRUCTION = 0 HOURS
- ROOF CONSTRUCTION = 0 HOURS

CHAPTER 7 - FIRE-RESISTANT RATED CONSTRUCTION
A. MAXIMUM AREA OF EXIT WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF PROTECTION (TABLE 705.8)

- 30' OR GREATER - UNPROTECTED, NONSPRINKLERED = NO LIMIT

CHAPTER 8 - INTERIOR FINISHES
A. INTERIOR WALL AND CEILING FINISH REQUIREMENTS (TABLE 803.11)
GROUP A-3, NONSPRINKLERED

- VERTICAL EXITS AND EXIT PASSAGEWAYS = A
- EXIT ACCESS CORRIDORS AND OTHER EXITWAYS = A
- ROOMS AND ENCLOSED SPACES = C

CHAPTER 10 - MEANS OF EGRESS
A. OCCUPANT LOAD (TABLE 1004.5)

- AIRCRAFT HANGARS (500 GROSS) - 4,966 GSF/500 = 10 PERSONS

B. EGRESS WIDTH SECTION 1005.1
OTHER EGRESS COMPONENTS = 0.2' PER OCCUPANT

C. COMMON PATH OF EGRESS TRAVEL (SECTION 1006.2.1)
GROUP S-1 = 100 FEET MAXIMUM

D. EXIT AND EXIT ACCESS DOORWAYS (1006)
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

- OCCUPANT LOAD OF THE SPACE EXCEEDS VALUES IN TABLE 1006.2.1
- THE COMMON PATH OF THE EGRESS TRAVEL EXCEEDS THE LIMITATIONS OF SECTION 1006.2.1
- WHERE REQUIRED BY SECTION 1006.3.2

F. EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) WITH SPRINKLER SYSTEM

- OCCUPANCY S-1 = 400 FEET MAXIMUM

G. CORRIDOR FIRE RESISTANT RATING (TABLE 1018.1) WITHOUT SPRINKLER SYSTEM

- OCCUPANCY S-1 = 0 HOUR (LESS THAN 30 OCCUPANTS)

H. CORRIDOR WIDTH (SECTION 1020.2)

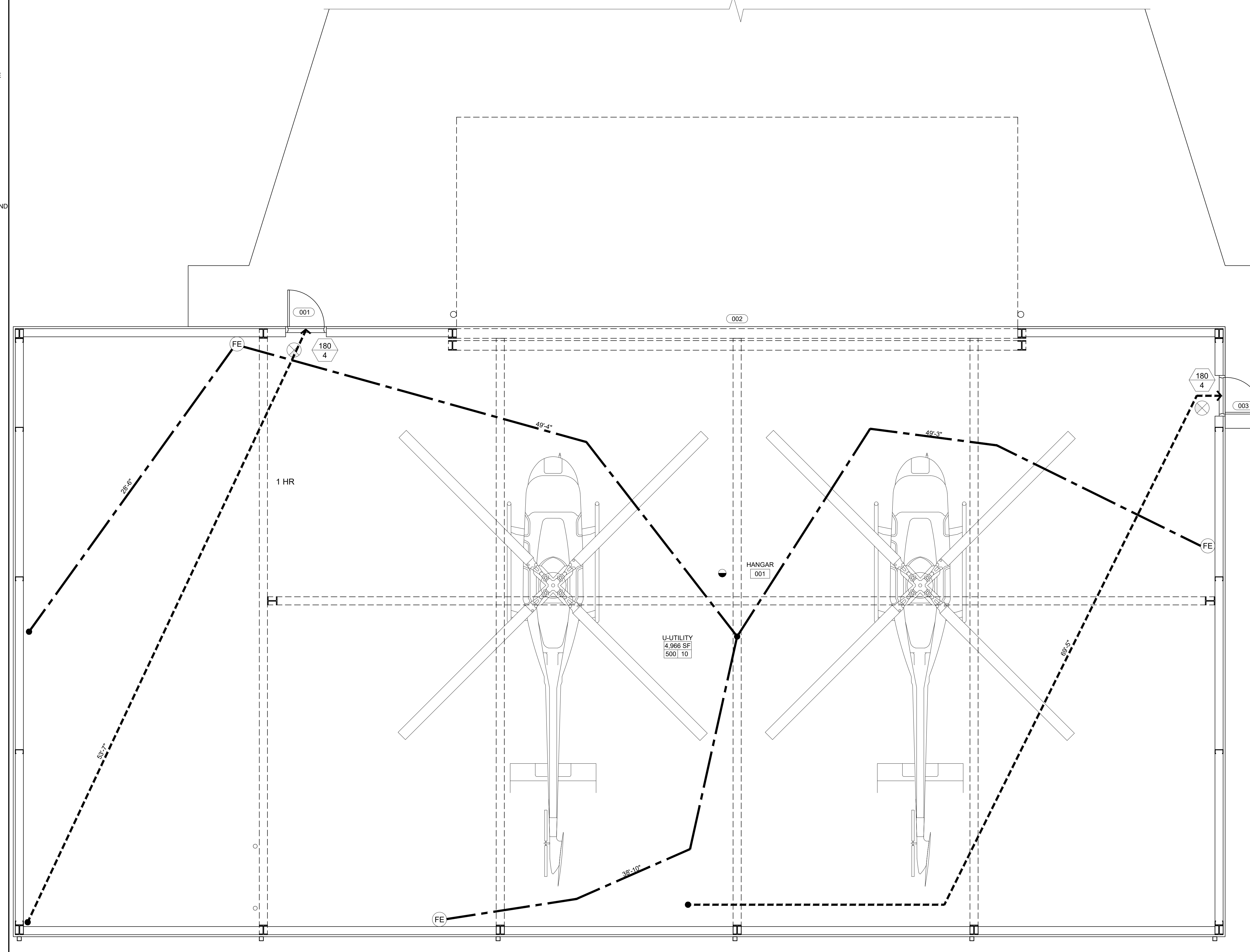
- CORRIDOR WIDTH 44" MIN.

I. MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD (TABLE 1006.3.2)

- OCCUPANT LOAD 1-500 PERSONS = 2 EXITS
- OCCUPANT LOAD 501-1,000 PERSONS = 3 EXITS
- OCCUPANT LOAD MORE THAN 1,000 PERSONS = 4 EXITS

TOTAL EGRESS DOOR WIDTHS - EGRESS WIDTH (1005.3.2)

- EGRESS = 0.2' PER OCCUPANT
- 10 OCC. x 0.2' = 2.0 INCHES MIN. TOTAL EGRESS REQUIRED
- TOTAL EGRESS WIDTH PROPOSED = 72"



- LIFE SAFETY LEGEND**
- PATH OF TRAVEL TO FIRE EXTINGUISHER
 - PATH OF TRAVEL TO EXIT EGRESS
 - 45 MIN. DOOR WITH A FIRE RATING LABEL
 - ROOM NUMBER
 - ROOM NAME
 - ROOM OCCUPANCY TYPE
 - ROOM SQUARE FOOTAGE
 - ROOM OCCUPANT LOAD
 - ROOM OCCUPANCY TYPE
 - EXIT CAPACITY
 - EXIT LOAD
 - FIRE EXTINGUISHER WALL HUNG BASIS OF DESIGN: LARSEN MP20 W/ LARSEN 577 BRACKET
 - SMOKE DETECTOR
 - EXIT SIGN WITH LED EMERGENCY LIGHT

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C1	LEGEND
SCALE: NTS	
LIFE SAFETY NOTES	
1. EXIT UNITS/EXIT DOOR LEAF = 36". ACTUAL CLEAR WIDTH = 32.5" - 32.5" DIVIDED BY 0.20"/PERSON = 162 PEOPLE/LEAF	
2. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION	
B1	NOTES
SCALE: NTS	
STATEMENT OF COMPLIANCE	
TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.	
A3	STATEMENT
SCALE: NTS	

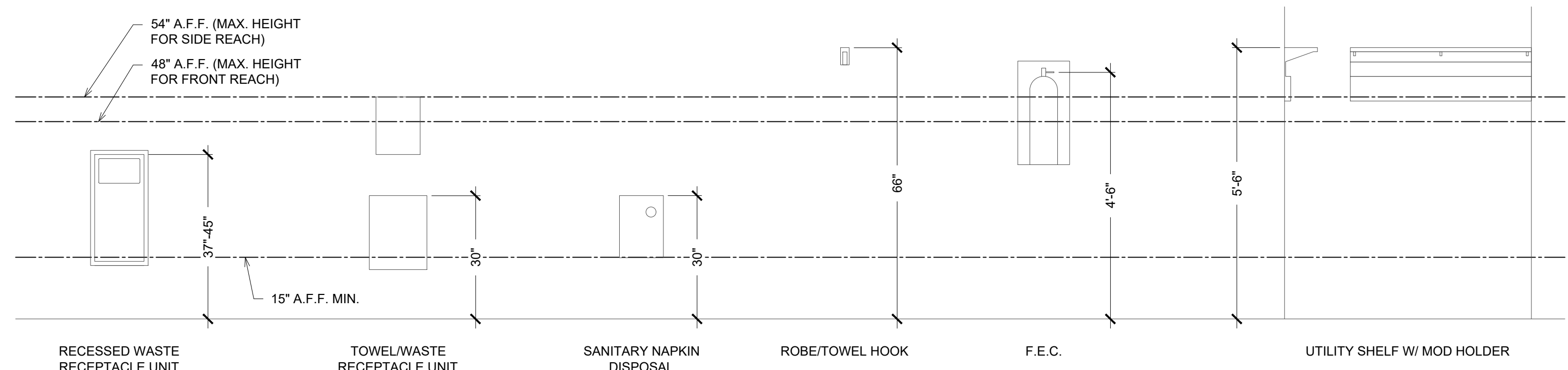
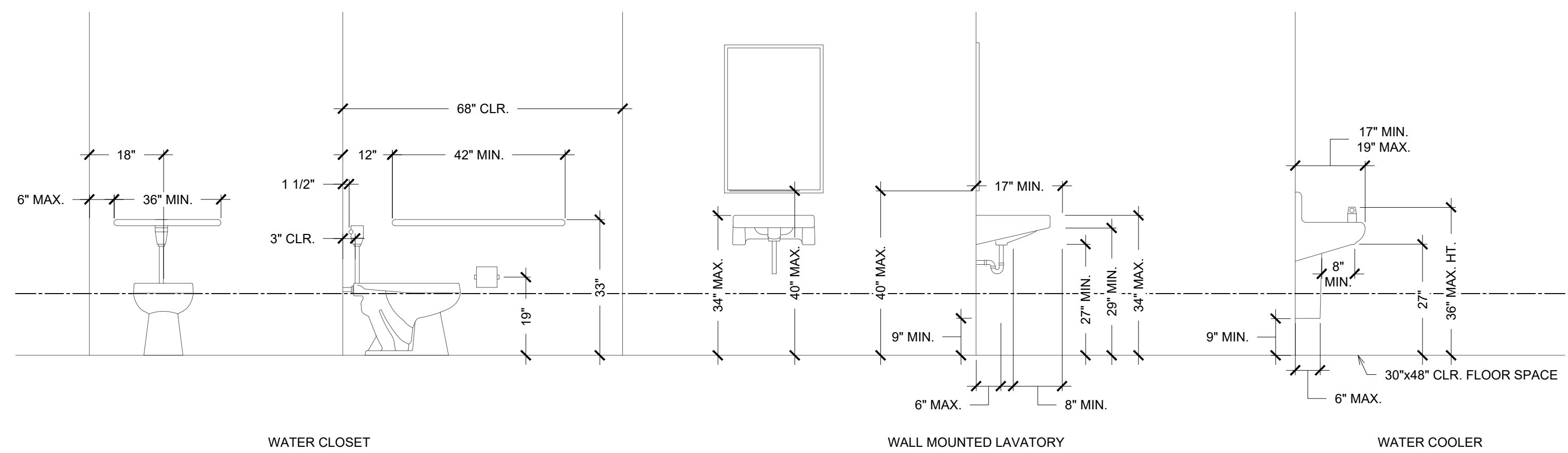
REVISIONS:

No.	Description	Date

LIFE SAFETY

PROJECT NUMBER **23084**
DATED 03.15.2024

A1	CODE SUMMARY	A2	LIFE SAFETY PLAN
SCALE: NTS		SCALE: 1/4" = 1'-0"	



B1 TYPICAL MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

	DENOTES ROOM NAME & NUMBER - SEE FINISH SCHEDULE - SHEET A500
	DENOTES PARTITION TYPE - SEE PARTITION WALL TYPES - SHEET A001
	DENOTES DOOR NUMBER - SEE SCHEDULE ON SHEET A500
	DENOTES ALUMINUM STOREFRONT TYPE - SEE SHEET A501
	DENOTES REVISION NUMBER
	ELEVATION

	SECTION MARK DETAIL # A1 SHEET WHERE DETAIL APPEARS A-100
	SINGLE ELEVATION MARK DETAIL # A1 SHEET WHERE DETAIL APPEARS A-100
	MULTIPLE ELEVATION MARK DETAIL # A1 SHEET WHERE DETAIL APPEARS A-100 A4 A-100 A2 A3

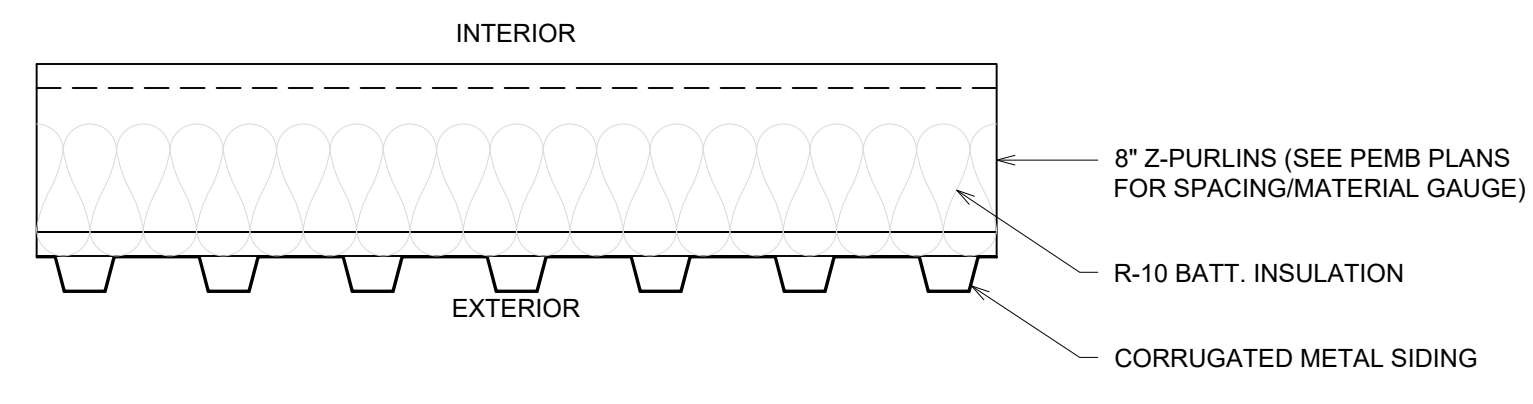
B2 SYMBOL LEGEND
SCALE: NTS

- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF DISCREPANCIES IN THE DOCUMENTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, AND/OR BETWEEN THE CONSTRUCTION DOCUMENTS AND THE ACTUAL JOB CONDITIONS WHICH AFFECT THE EXECUTION OF THE WORK INDICATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL THE WORK PERFORMED BY SUBCONTRACTORS UNLESS NOTED OR INDICATED OTHERWISE.
- THE CONTRACTOR SHALL LAY-OUT WALLS AND PARTITIONS AS THEY RELATE TO THE STRUCTURE AND OTHER BUILDING ELEMENTS AS SHOWN IN THE CONSTRUCTION DOCUMENTS. CONFLICTS OR AREAS OF INTERPRETATION SHALL BE RESOLVED BY THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY AND CORRELATE ALL DIMENSIONS DURING THE CONSTRUCTION LAY-OUT OF THE WORK. THE FOLLOWING GUIDANCE APPLIES TO DIMENSIONS USED ON THE ARCHITECTURAL DRAWINGS.
 - THE CONTRACTOR SHALL USE DIMENSIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
 - THE CONTRACTOR SHALL NOT SCALE FROM THE DRAWINGS.
 - THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF DISCREPANCIES AND/OR CONFLICTS IN DIMENSIONS SHOWN ON THE DRAWINGS.
 - ALL PLAN DIMENSIONS ARE FROM FINISHED FACE OF MATERIAL TO FINISHED FACE OF MATERIAL OR COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES AND SPECIFIC REQUIREMENTS OF ALL FREESTANDING, UNDER CABINET AND BUILT-IN EQUIPMENT PRIOR TO BEGINNING SHOP DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THAT ALL LIGHT SWITCHES, THERMOSTATS, WINDOW TREATMENT OR AV EQUIPMENT CONTROLS, FIRE STROBES OR PULL STATIONS ARE LOCATED IN THE TYPICAL MOUNTING HEIGHTS AND LOCATIONS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAKE ALL EXTERIOR WALL/ROOF OR WALL/WALL TRANSITIONS WEATHER TIGHT AND AIRTIGHT WITH SEALANT TO MAINTAIN REQUIRED INSULATION VALUES IN THE FACILITY UNLESS NOTED OR INDICATED OTHERWISE. NO GAPS, OPENINGS, OR PENETRATIONS IN THE EXTERIOR WALL OR ROOF ASSEMBLIES SHALL BE LEFT EXPOSED TO THE ELEMENTS.
- SEAL ALL ACOUSTICAL SOUND PARTITIONS WITH ACOUSTICAL SEALANT AT THE BASE, HEAD AND ALL OPENINGS.
- PROVIDE FINISHED WALL CONSTRUCTION BEHIND ALL EQUIPMENT, MILLWORK AND CASEWORK.
- TYPICAL DOOR LOCATIONS SHALL BE 6" FROM FACE OF WALL TO INSIDE EDGE OF DOOR FRAME UNLESS INDICATED OR NOTED OTHERWISE.

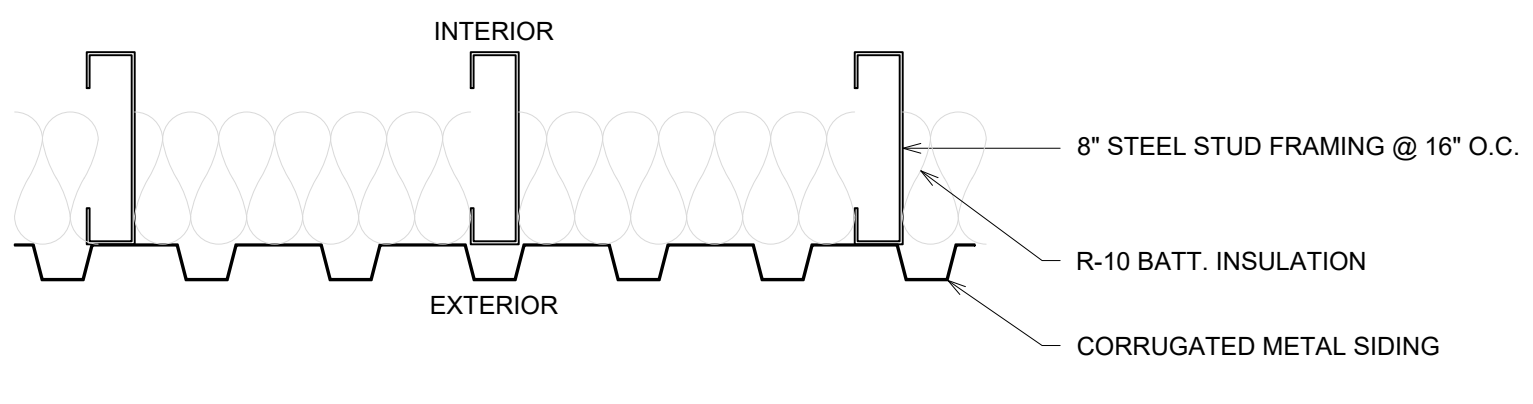
B3 GENERAL NOTES
SCALE: NTS

ALM	ALARM	EB	EXPANSION BOLT	INCL	INCLUDED	PNT	PAINT	S	SOUTH
AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	INFO	INFORMATION	PR	PAIR	SQ	SQUARE
ACT	ACOUSTICAL CEILING TILE	EAC	EACH	ID	INSIDE DIAMETER	PNL	PANEL	SF	SQUARE FOOT(FEET)
AWT	ACOUSTICAL WALL TREATMENT	EA	EAST	INSUL	INSULATION	PERIM	PERIMETER	SQ YD	SQUARE YARD
ADJ	ADJUSTABLE	EL	ELEVATION	JAN CLO	JANITOR CLOSET	PLAM	PLASTIC LAMINATE	SST	STAINLESS STEEL
A/C	AIR CONDITION	EQ	EQUAL	KB	KNOX BOX	PWR	POWER	SS	STANDING SEAM (ROOF)
AHU	AIR HANDLING UNIT	EQUIP	EQUIPMENT	LAM	LAMINATE	PEMB	PRE-ENGINEERED METAL BUILDING	STL JST	STEEL JOIST
ALUM	ALUMINUM	EXH	EXHAUST	LAM GL	LAMINATED GLASS	PREFIN	PREFINISHED	STL RF DK	STEEL ROOF DECK
ADA	AMERICANS WITH DISABILITIES ACT	EXIST	EXISTING	LAV	LAVATORY	PT	PRESSURE TREATED	ST	STREET
ARCH	ARCHITECT	EJ	EXPANSION JOINT	LT GA	LIGHT GAGE	QTY	QUANTITY	TMPD GL	TEMPERED GLASS
BALC	BALCONY	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LWC	LIGHTWEIGHT CONCRETE	QTR	QUARTER	TEMP	TEMPORARY
BR	BEDROOM	FOS	FACE OF STUD	LD BRG	LOAD-BEARING	R	RADIUS	THK	THICKNESS
BM	BENCHMARK	FT	FEET	LVR	LOUVER	RLG	RAILING	TO	TOP OF
BITUM	BITUMINOUS	FIN	FINISH	MFR	MANUFACTURER	REC	RECESSED	TOB	TOP OF BEAM
BD	BOARD	FIN FLR	FINISH FLOOR	MFR REC	MANUFACTURER'S RECOMMENDATION	REF	REFERENCE	TOS	TOP OF STEEL
BOT	BOTTOM	FIN GR	FINISH GRADE	MRT	MARBLE THRESHOLD	RDL	ROOF DRAIN LEADER	TN	TRUE NORTH
BRKT	BRACKET	FO	FINISHED OPENING	REBAR	REINFORCING STEEL BARS	RCP	REFLECTED CEILING PLAN	TYP	TYPICAL
BI FLD DR	BIFOLDING DOORS	FA	FIRE ALARM	REQD	REQUIRED	REINF	REINFORCE	UCD	UNDERCUT DOOR
BLDG	BUILDING	FE	FIRE EXTINGUISHER	REBQ	REQUIT	MINO	MINIMUM	UNO	UNLESS NOTED OTHERWISE
CW	CASEMENT WINDOW	FEQ	FIRE EXTINGUISHER CABINET	REV	REVISION	NO	NONE	UR	URINAL
CBB	CEMENTITIOUS (BACKER) BOARD	FFE	FINISH FLOOR ELEVATION	RH	RIGHT HAND	MBR	MASTER BEDROOM	VR	VAPOR RETARDER
CAB	CABINET	FHC	FIRE HOSE CABINET	ROG INS	RIGID INSULATION, SOLID	MAX	MAXIMUM	VTR	VENT THROUGH ROOF
CPT	CARPET	FLR FIN	FLOOR FINISH	MECH	MECHANICAL	RDG	ROUGH OPENING	VIF	VERIFY IN FIELD
CTR	CENTER	FLR SK	FLOOR SINK	MEMB	MEMBRANE	RDL	ROOF DRAIN LEADER	VERT	VERTICAL
C	CENTER LINE	FLUR	FLOURESCENT	MWP	MEMBRANE WATERPROOFING	RO	ROUGH OPENING	VB	VINYL BASE
C/C	CENTER TO CENTER	GL	GLASS	MTL	METAL	RB	RUBBER BASE	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	GL BLK	GLASS BLOCK	MD	METAL DECK	RWL	RAINWATER LEADER	VFAT	VINYL FACED ACOUSTICAL TILE
CTB	CERAMIC TILE BASE	GC	GENERAL CONTRACTOR	METD	METAL FLASHING	SAN	SANITARY	WC	WATER CLOSET
CRMF	COLD FORMED METAL FRAMING	GALV	GALVANIZED	METF	METAL FLASHING	SCHED	SCHEDULE	WH	WATER HEATER
CR	CLOSET ROD	GL	GLASS	MEZZ	MEZZANINE	SCP	SCUPPER	WPM	WATERPROOF MEMBRANE
CH	COAT HOOK	GFRG	GLASS-FIBER-REINFORCED GYPSUM	MID	MIDDLE	SLNT	SEALANT	WH	WEEP HOLE
COL	COLUMN	GR FL	GROUND FLOOR	MIN	MINIMUM	SMLS	SEAMLESS	WWF	WELDED WIRE FABRIC
CLL	COLUMN LINE	GDR	GUARD RAIL	MISC	MISCELLANEOUS	SHT	SHEET	WGL	WIRED GLASS
CMU	CONCRETE MASONRY UNIT	GYM	GYMNASIUM	MILDG	MOLDING(MOULDING)	SM	SHEET METAL	W	WITH
CSB	CONCRETE SPLASH BLOCK	GYP BD	GYPSUM BOARD	MS	MOP SINK	SHV	SHELVING	WD	WOOD
CJ	CONTROL JOINT	GL BLK	GLASS BLOCK	N	NORTH	SH	SHINGLES	WDF	WOOD DOOR AND FRAME
		HC	HANDICAP	NA	NOT APPLICABLE	SD	SHOP DRAWINGS		
		HT	HEIGHT	NTE	NOT TO EXCEED	SHR	SHOWER		
		HMD	HOLLOW METAL DOOR	NTS	NOT TO SCALE	SHRD	SHOWER DRAIN		
		HMF	HOLLOW METAL DOOR AND FRAME			SHR HD	SHOWER HEAD		
		HMF	HOLLOW METAL FRAME	ORD	OVERFLOW ROOF DRAIN	SKLT	SKYLIGHT		
		HORIZ	HORIZONTAL	OH DR	OVERHEAD (COILING) DOOR	SGD	SLIDING GLASS DOOR		
		HB	HOSE BIB	OF/CI	OWNER FURNISHED INSTALLED	SCMU	SOLID CONCRETE MASONRY UNIT		
		HC	HOSE CABINET	OF/OI	OWNER FURNISHED/ OWNER INSTALLED	SCWD	SOLID CORE WOOD DOOR		
		H&CW	HOT AND COLD WATER			STC	SOUND TRANSMISSION GLASS		
		HW	HOT WATER						

A1 ABBREVIATIONS
SCALE: NTS



W1 UNFINISHED EXT. WALL
SCALE: 1-1/2" = 1'-0"



W2 UNFINISHED EXT. ENDWALL
SCALE: 1-1/2" = 1'-0"

A2 WALL TYPES
SCALE: 1/2" = 1'-0"



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WALL AND PARTITION GENERAL NOTES:

- ALL GYPSUM BOARD TO BE ABUSE RESISTANT, TYPE "X".
- INTERIOR WALLBOARD TO BE 5/8" THK. GYPSUM WALLBOARD
- FLUID APPLIED MEMBRANE AIR BARRIER, WHERE USED, IS TO BE CONTINUOUS FROM TOP OF WALL TO TOP OF FOOTING.
- GYPSUM BOARD TO BE MOISTURE-RESISTANT IN TOILET ROOMS AND JANITOR CLOSET.
- TOILET PARTITIONS TO HAVE ACOUSTIC SEALANT TREATMENT AT TOP, BOTTOM, AND ALL PENETRATIONS.

REVISIONS:

No.	Description	Date

GENERAL INFO AND DETAILS
PROJECT NUMBER **23084**
DATED 03.15.2024



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REVISIONS:

No.	Description	Date

SITE PLAN
PROJECT NUMBER **23084**
DATED 03.15.2024

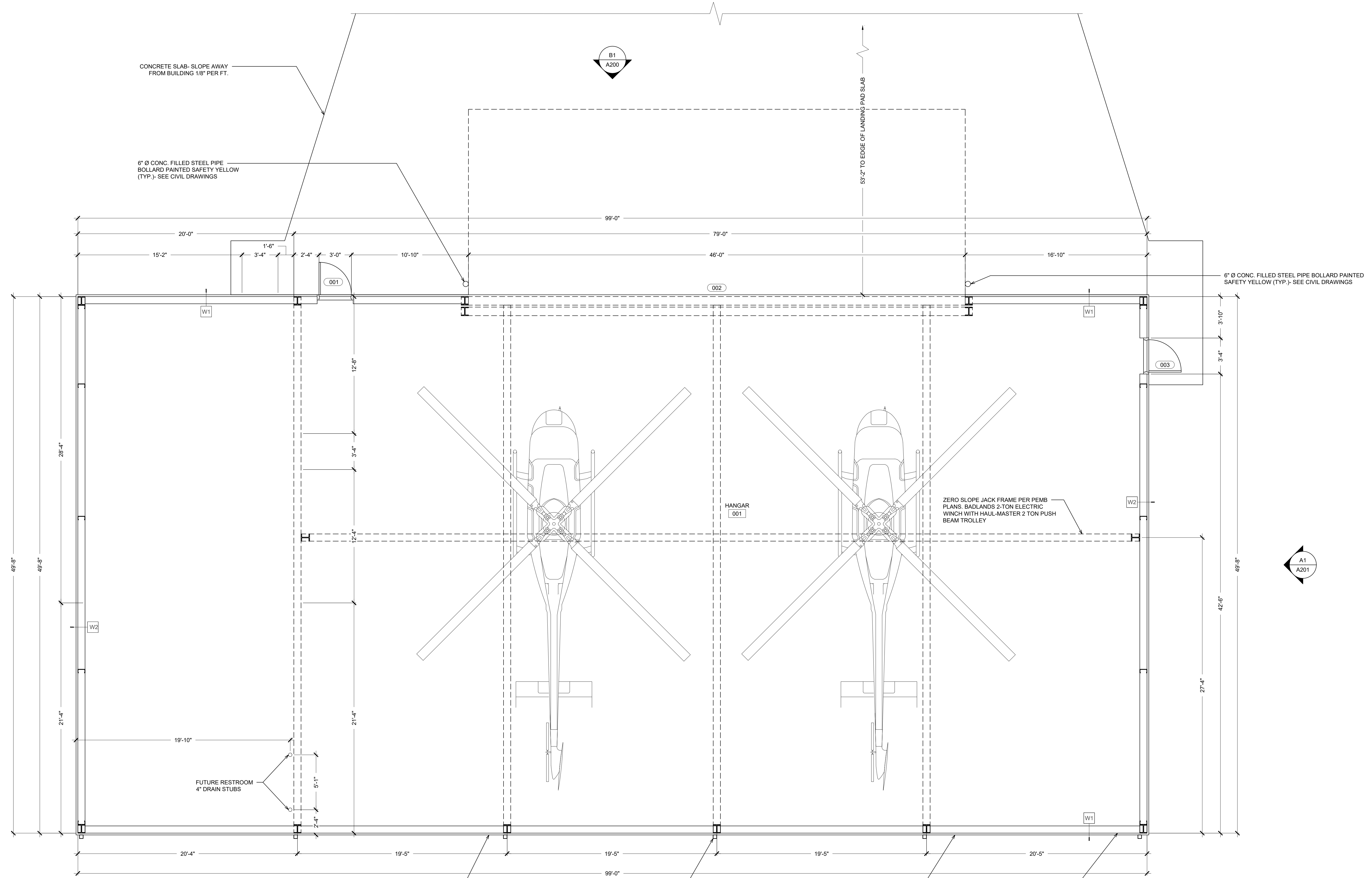
A1 SITE PLAN
SCALE: 1/32" = 1'-0"



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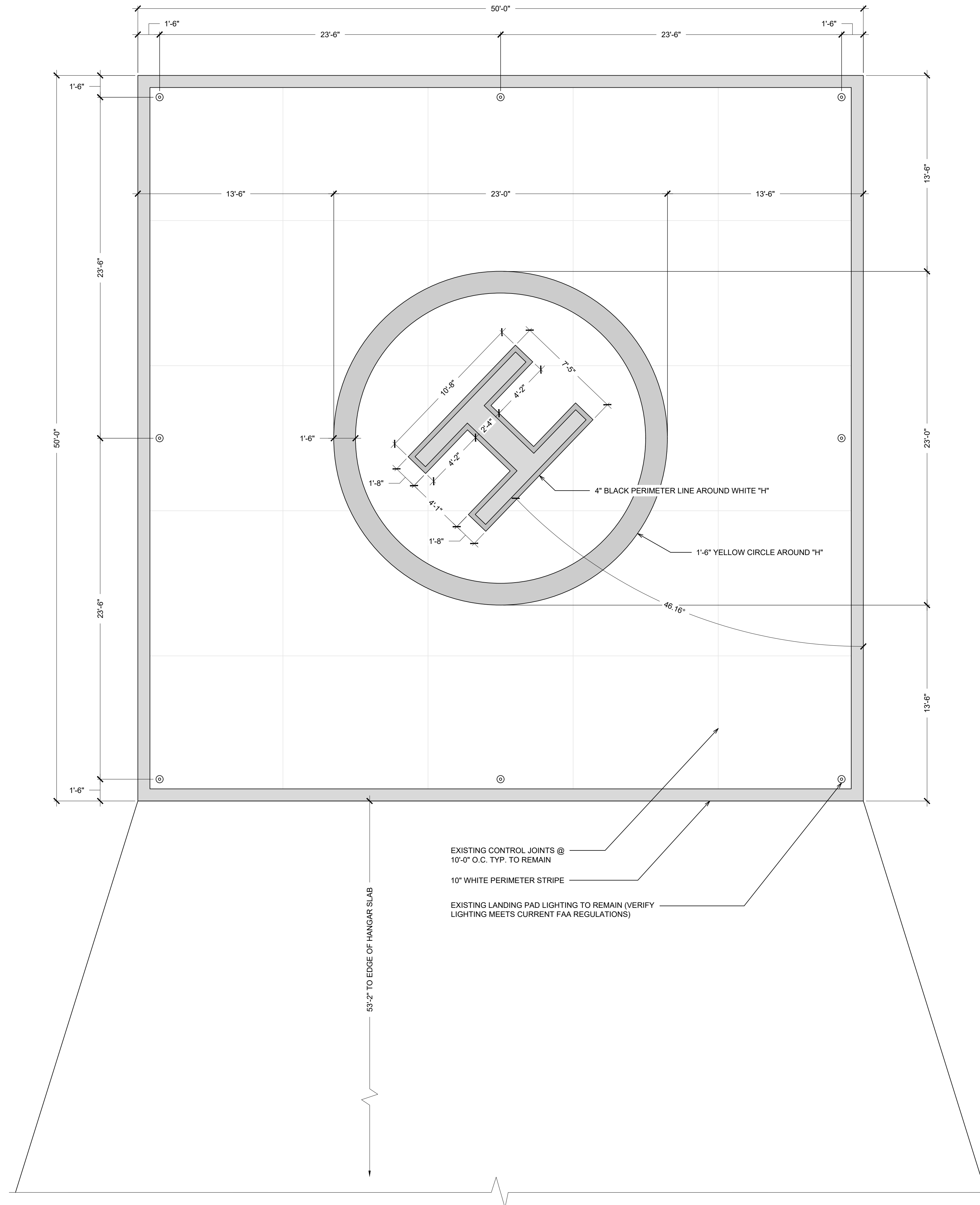
No.	Description	Date

FLOOR PLAN

PROJECT NUMBER 23084
 DATED 03.15.2024

A1 FLOOR PLAN

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



EXISTING CONTROL JOINTS @ 10'-0" O.C. TYP. TO REMAIN
 10' WHITE PERIMETER STRIPE
 EXISTING LANDING PAD LIGHTING TO REMAIN (VERIFY LIGHTING MEETS CURRENT FAA REGULATIONS)



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642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

HELIPAD PLAN

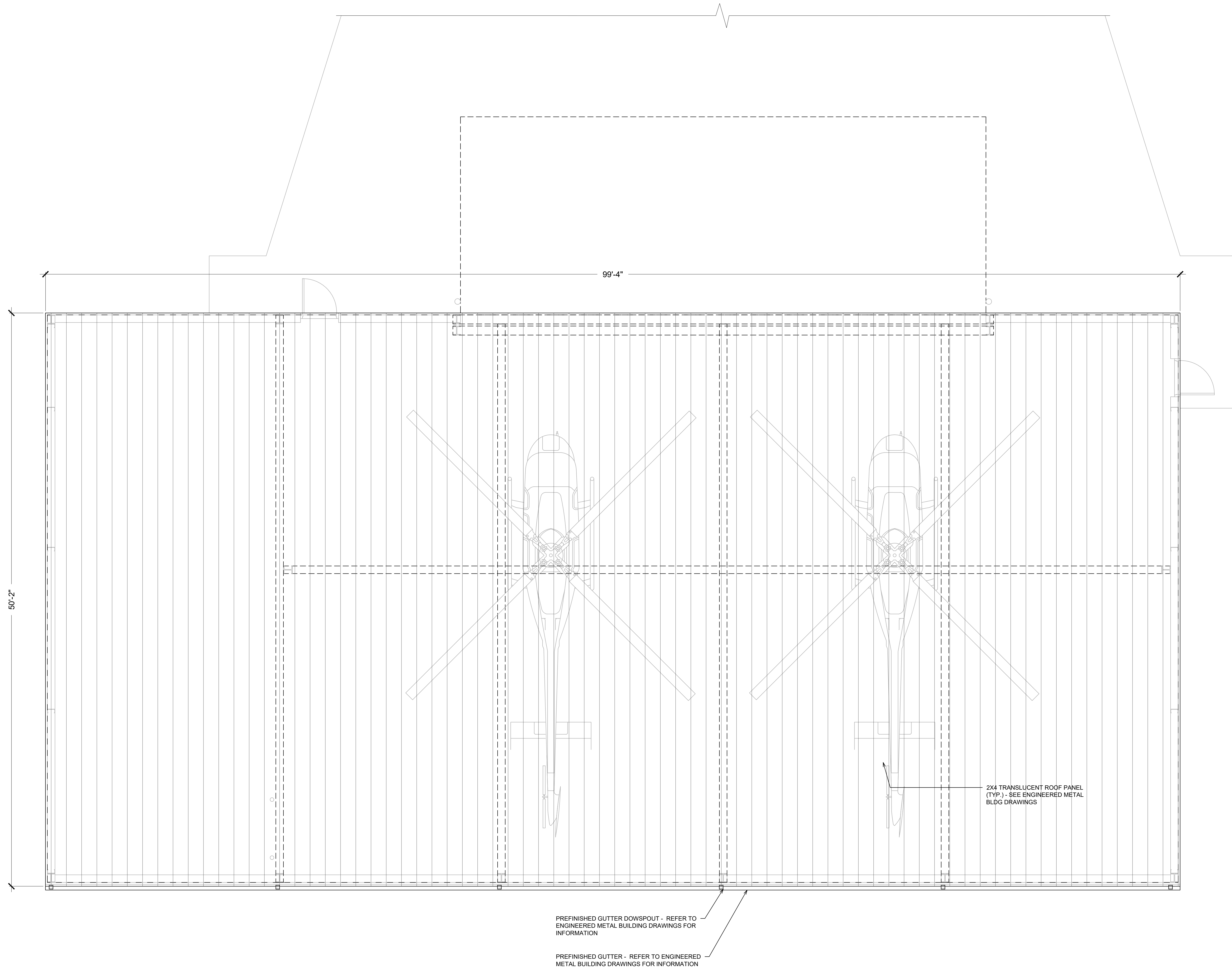
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A1

EXISTING HELIPAD PAINT REFRESH PLAN

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

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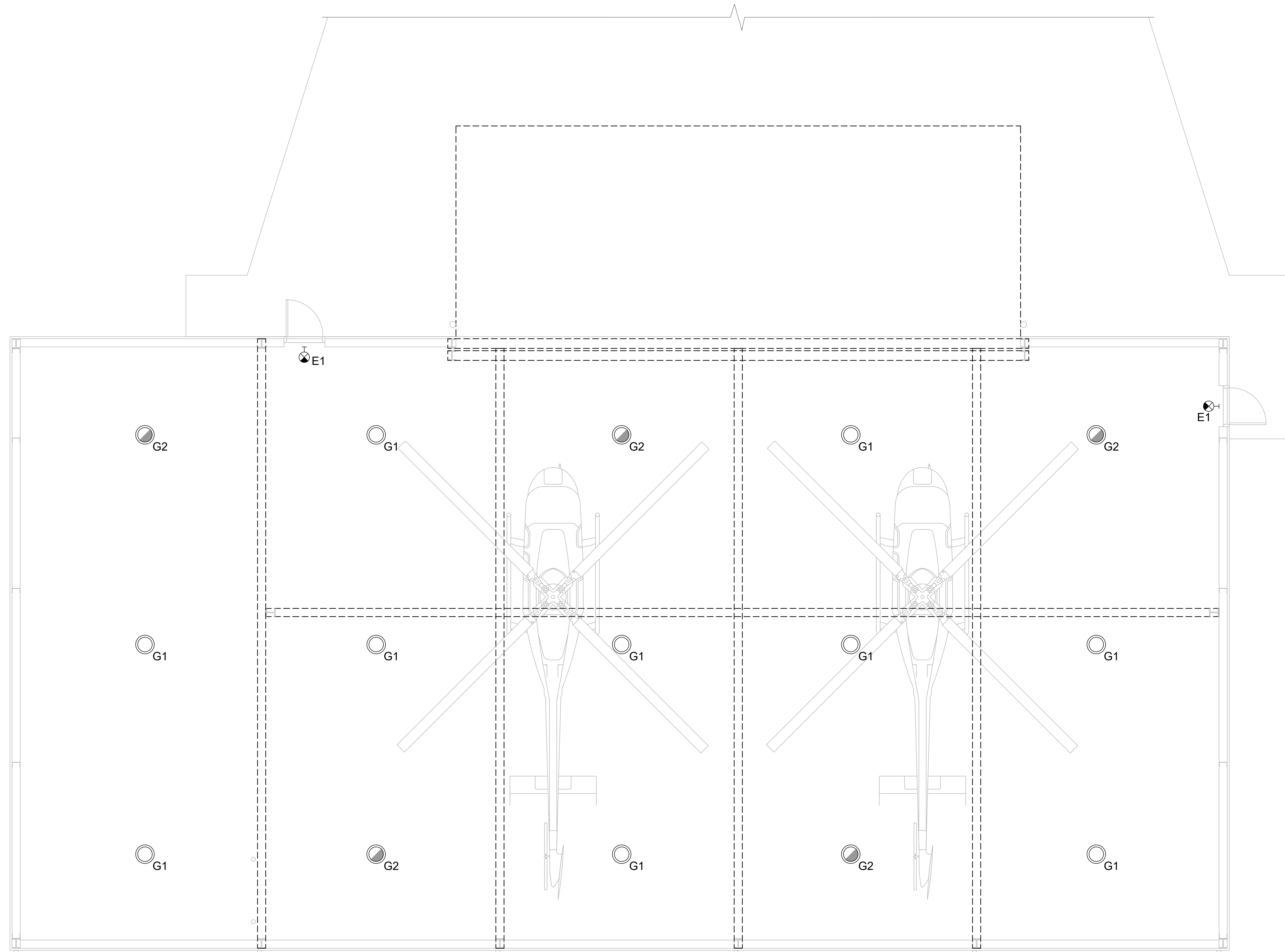
No.	Description	Date

ROOF PLAN

PROJECT NUMBER **23084**
DATED 03.15.2024

A1 **ROOF PLAN**
SCALE: 1/4" = 1'-0"

LIGHTING & CEILING LEGEND	
	HIGH BAY LED LIGHT FIXTURE
	HIGH BAY EMERGENCY LED LIGHT FIXTURE
	WALL MOUNTED LED EXIT SIGNAGE



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No.	Description	Date

REFLECTED CEILING
PLAN

PROJECT NUMBER **23084**
DATED 03.15.2024

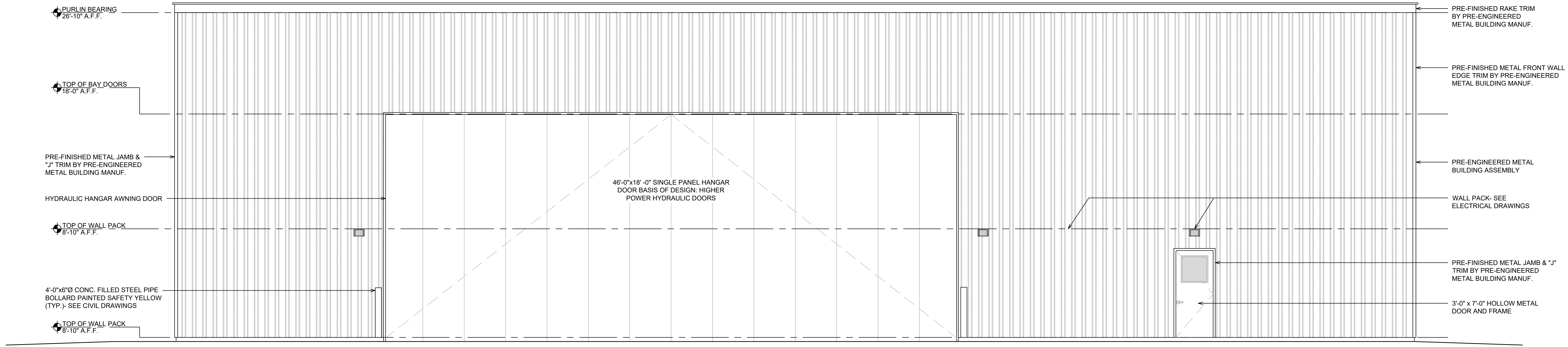
A1 REFLECTED CEILING PLAN

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

REVISIONS:

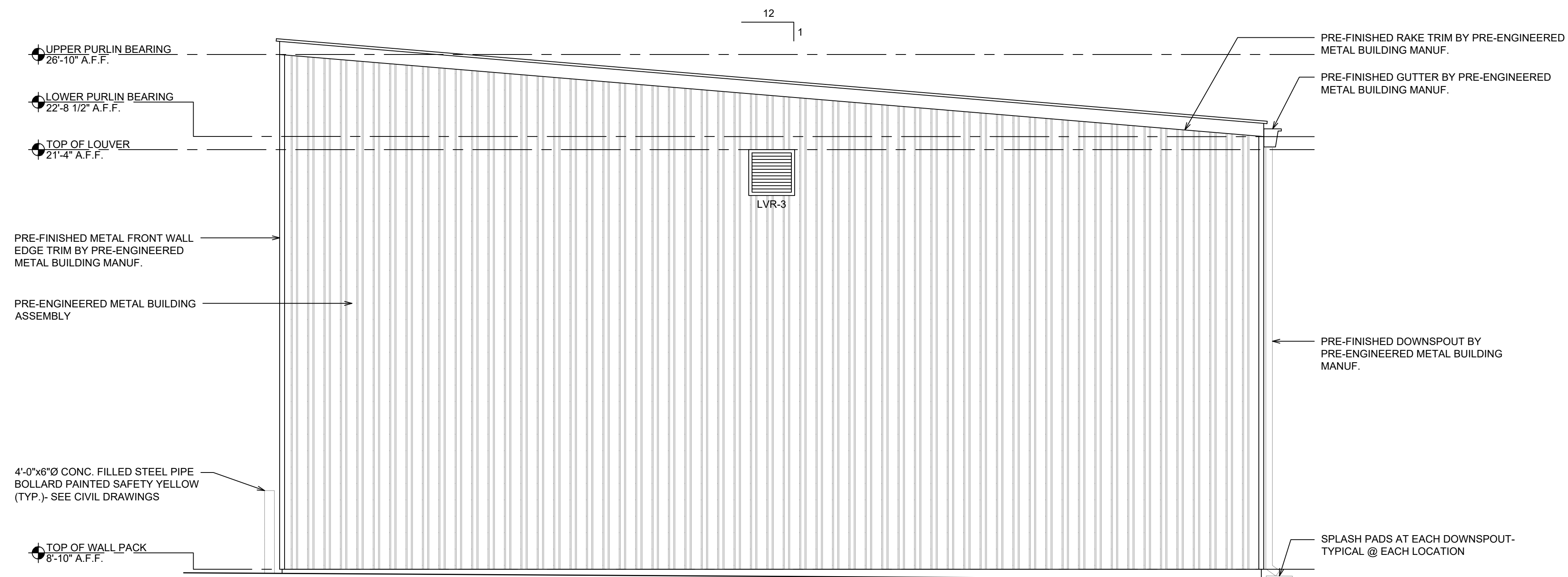
No.	Description	Date

ELEVATIONS



B1 LEFT SIDE ELEVATION

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



A1 FRONT ELEVATION

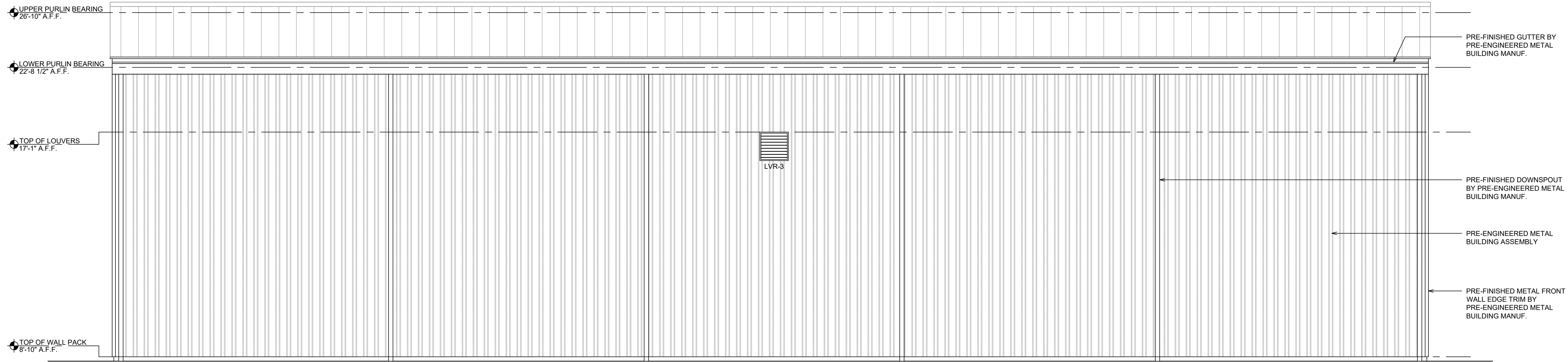
SCALE: 1/4" = 1'-0"



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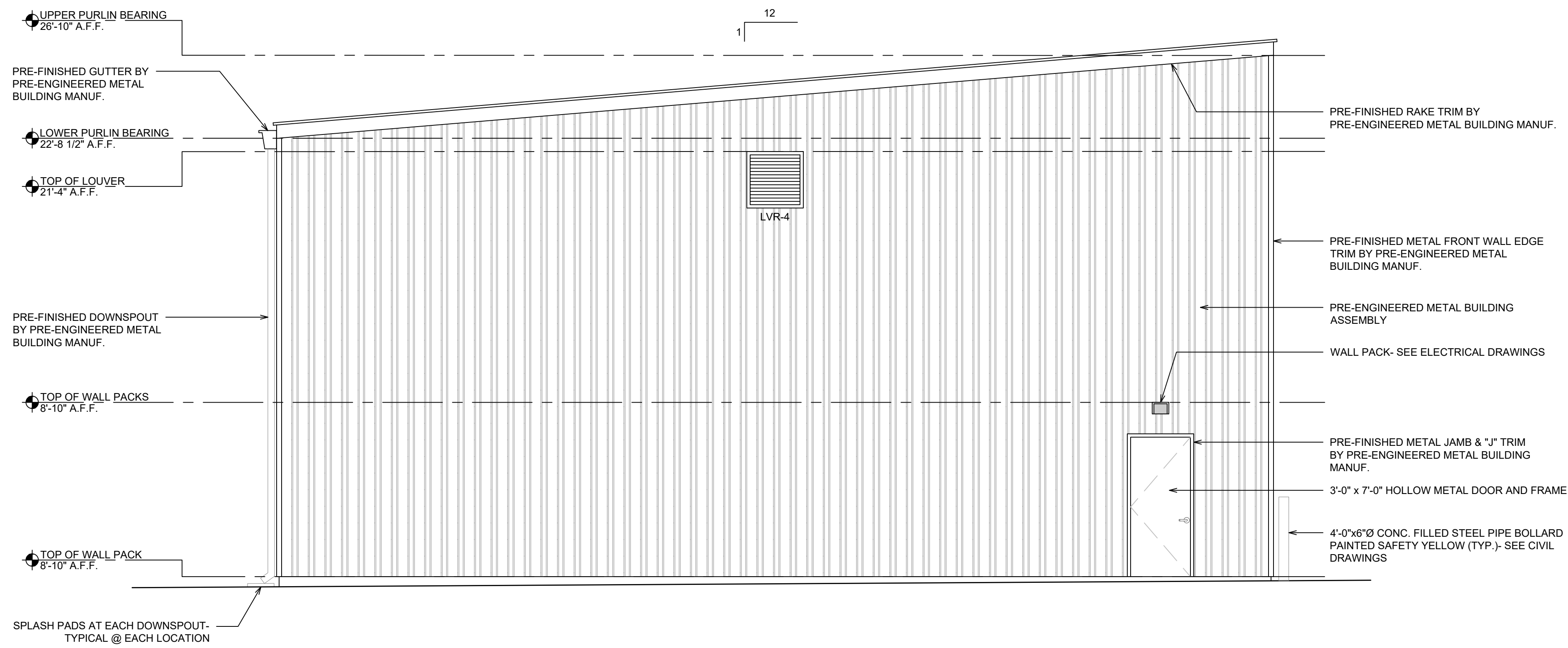
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B1 REAR ELEVATION

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



A1 RIGHT SIDE ELEVATION

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

NEW HANGAR AND HELIPAD PROJECT FOR:
**BAY COUNTY SHERIFFS
OFFICE**

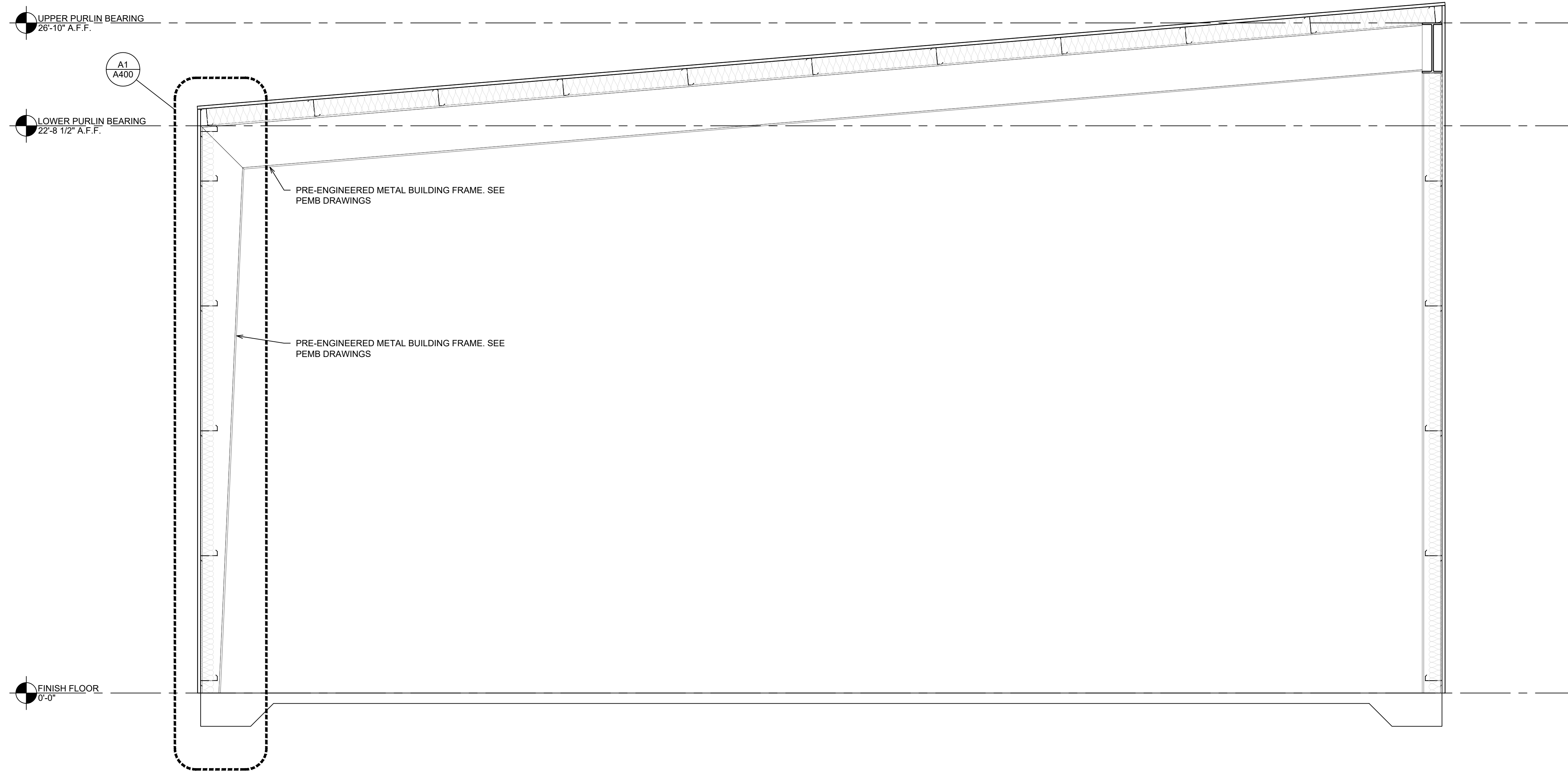
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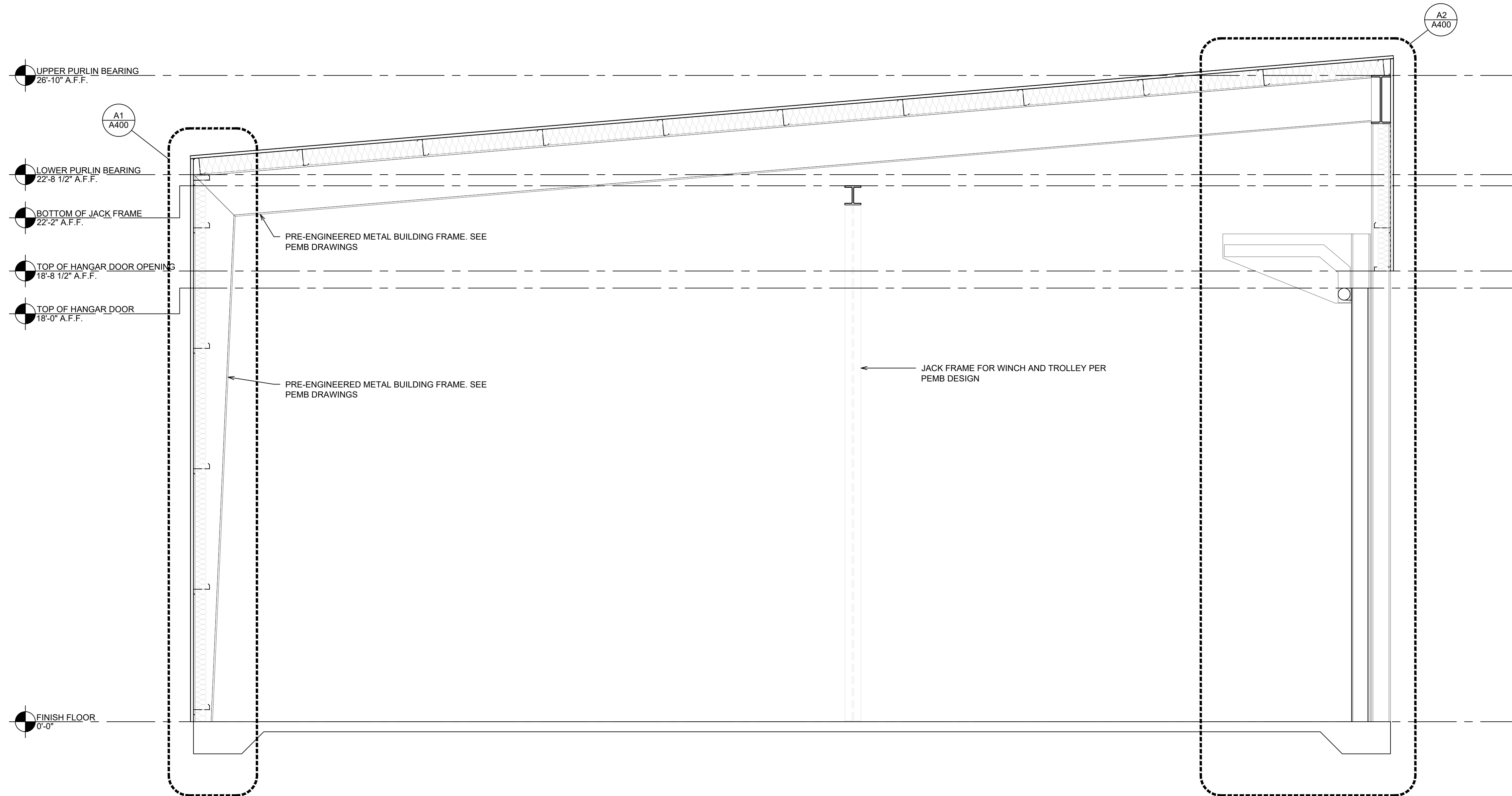
ELEVATIONS

PROJECT NUMBER **23084**
DATED 03.15.2024



B1 BUILDING SECTION

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



A1 BUILDING SECTION

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



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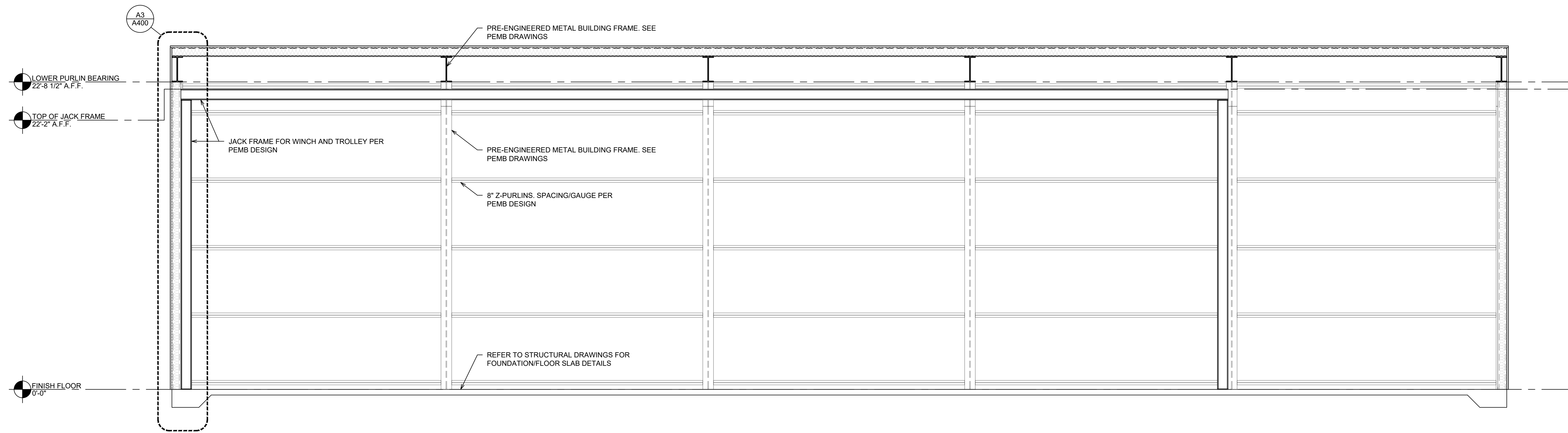
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REVISIONS:

No.	Description	Date

SECTIONS

PROJECT NUMBER **23084**
DATED 03.15.2024



A1 BUILDING SECTION

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

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NEW HANGAR AND HELIPAD PROJECT FOR:
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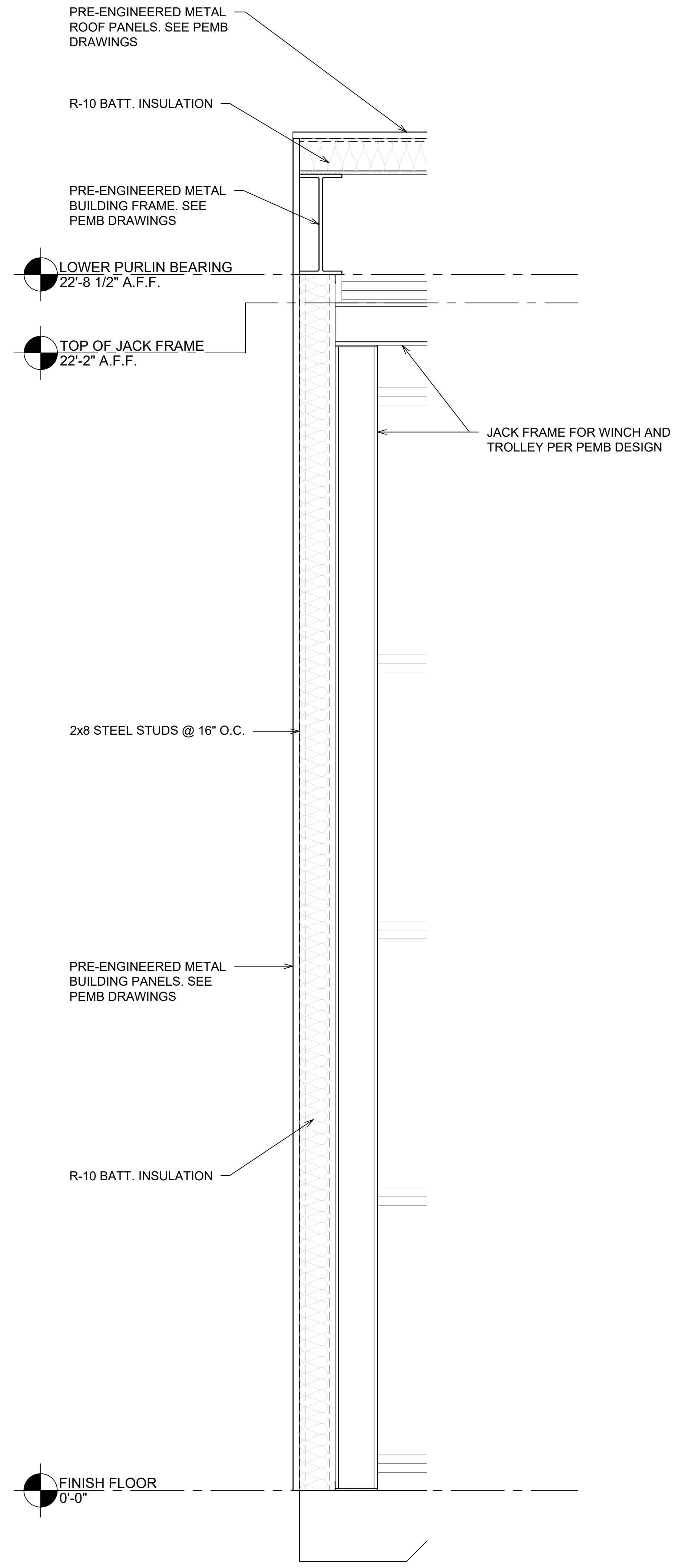
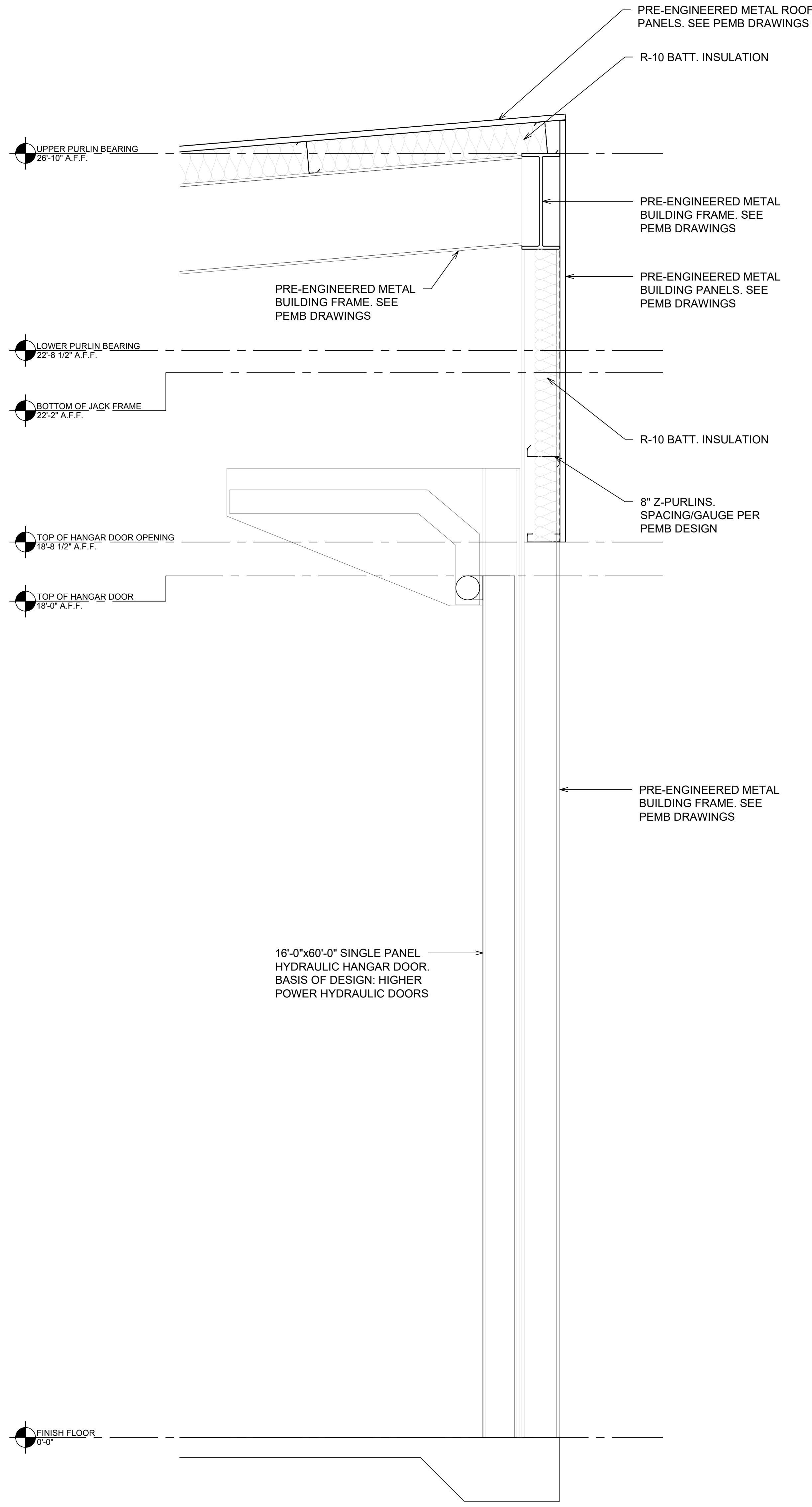
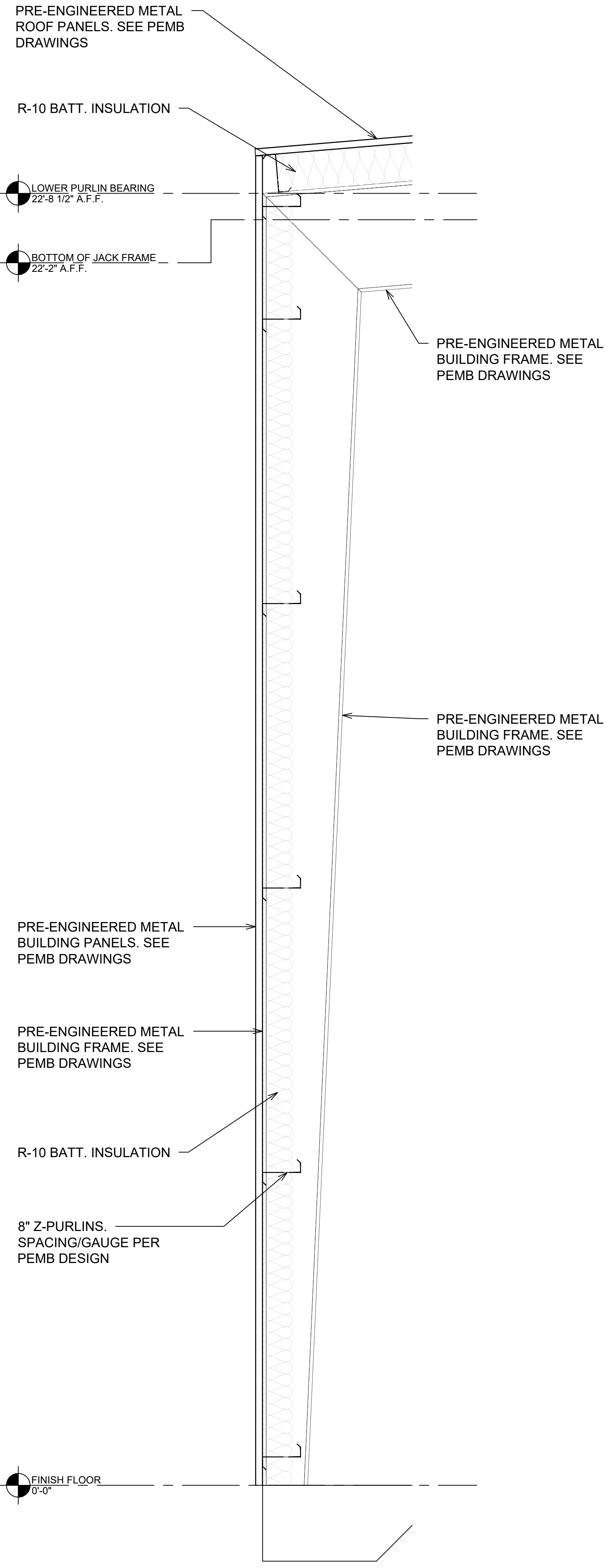
REVISIONS:

No.	Description	Date

SECTIONS

PROJECT NUMBER **23084**
DATED 03.15.2024

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NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE

642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

SECTION DETAILS

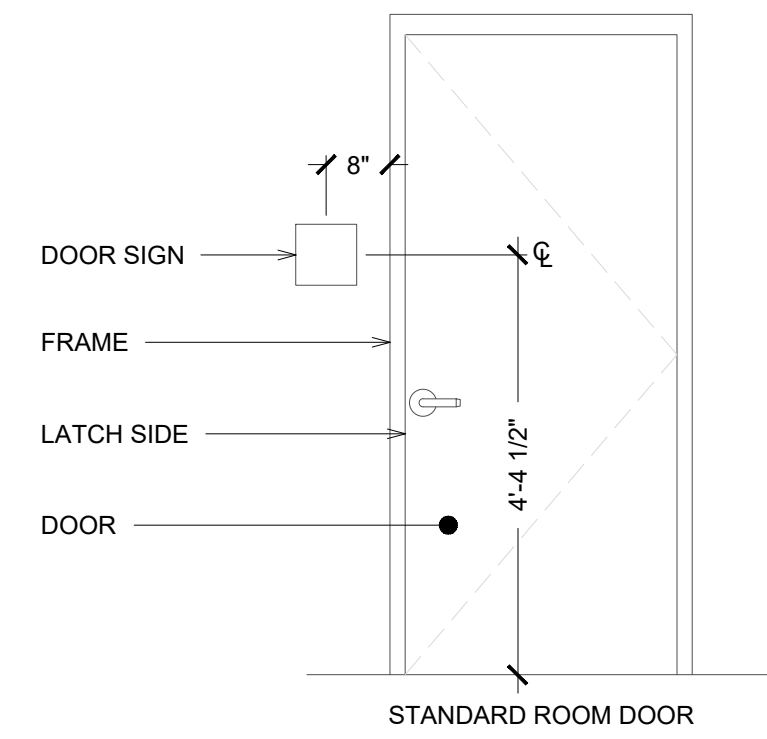
PROJECT NUMBER **23084**
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A1 HANGAR REAR WALL SECTION DETAIL
SCALE: 3/4" = 1'-0"

A2 HANGAR FRONT WALL SECTION DETAIL @ DOOR
SCALE: 3/4" = 1'-0"

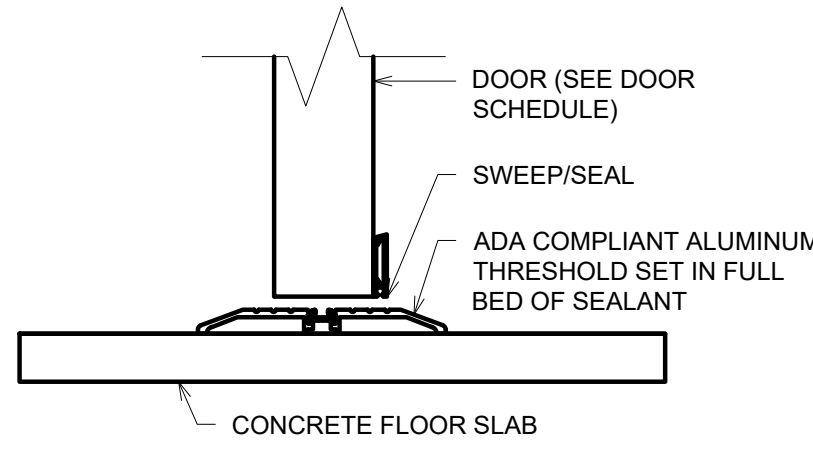
A3 HANGAR SECTION DETAIL @ WEST WALL
SCALE: 3/4" = 1'-0"



STANDARD ROOM DOOR

C1 DOOR SIGNAGE - SCHEDULE & TYPES

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



S4 SILL 4 DETAIL

SCALE: 3" = 1'-0"

DOOR SCHEDULE

#	DOOR			FRAME			FIRE RATING	IMPACT RESISTANT	HARDWARE SET	NOTES	
	MATERIAL	TYPE	SIZE	TYPE	DETAILS						
					HEAD	JAMB	SILL				
001	HM	F	3'-0"X7'-0"	HM-1	PEMB	PEMB	PEMB	N/A	YES	~	SEE PEMB DRAWINGS
002	SEE SPECS	HD	46'-0"X18'-0"	HPD	SEE SPECS	SEE SPECS	SEE SPECS	N/A	YES	~	BASIS OF DESIGN: HIGHER POWER HYDRAULIC DOORS
001	HM	FL	3'-0"X7'-0"	HM-1	PEMB	PEMB	PEMB	N/A	YES	~	SEE PEMB DRAWINGS

EXTERIOR DOOR & STOREFRONT NOTES

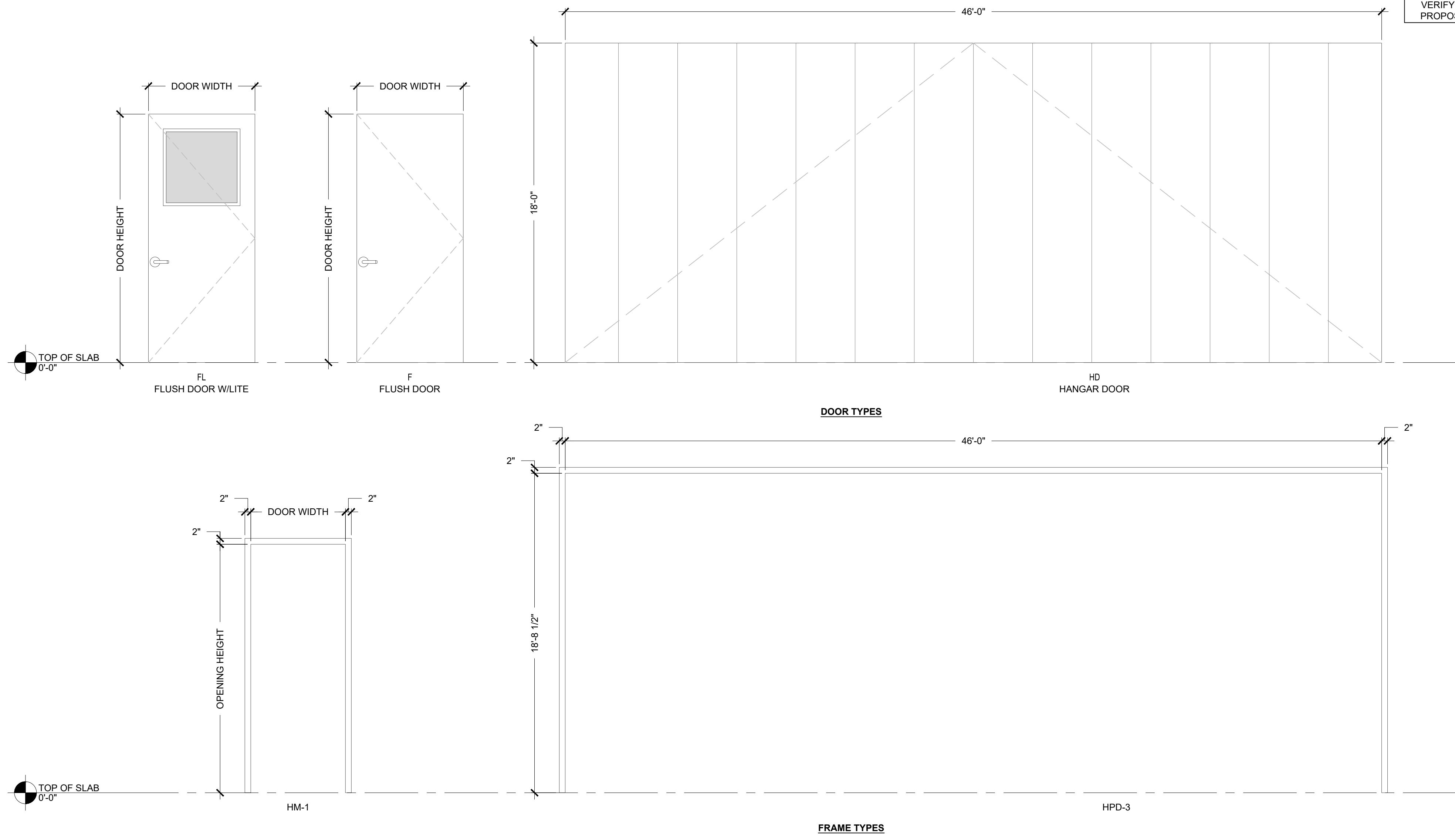
- ALL EXTERIOR GLAZING TO BE INSULATED. CLEAR GLAZING WITH LOW-E COATING ON INNER SURFACE OF OUTBOARD LITE.
- ALL EXTERIOR GLAZING TO COMPLY WITH U-FACTOR AND SHGC REQUIREMENTS IN TABLE C402.4 OF THE 2020 FLORIDA BUILDING CODE-ENERGY CONSERVATION.
- ALL EXTERIOR GLAZING TO BE IMPACT RESISTANT GLASS RATED FOR LARGE AND TO HAVE FLORIDA PRODUCT APPROVAL NUMBER. MISSILE IMPACT.
- ALL EXTERIOR STOREFRONT, ENTRANCES, DOORS & FRAMING ASSEMBLIES TO IMPACT RESISTANT RATED FOR LARGE MISSILE IMPACT.
- ALL ALUMINUM FRAMING TO BE PRE-FINISHED. COLOR WHITE.

DOOR SCHEDULE GENERAL NOTES:

- A. DOOR MATERIAL ABBREVIATIONS
 AL = ALUMINUM STOREFRONT
 GHM = GALVANIZED HOLLOW METAL
 HM = HOLLOW METAL
 IGHM = INSULATED GALV. HOLLOW METAL
 PH = PRE-HUNG
 STL = STEEL GALVANIZED
 UCD = UNDERCUT DOOR
 WD = SOLID WOOD CORE
- B. UNLESS NOTED OTHERWISE, WHERE GLASS OCCURS IN DOORS PROVIDE TEMPERED GLASS.
- C. UNLESS NOTED OTHERWISE, ALL DOORS ARE 1-3/4" THICK.

DOOR SCHEDULE REMARKS:

- DOOR TO BE ALARMED WITH DELAYED EGRESS FUNCTION FULLY COMPLYING WITH FBC SECTION 1008.1.9.7 DELAYED EGRESS LOCKS.
- DOOR HAS LIMITED OVERHEAD CLEARANCE. VERIFY CLEARANCE REQUIRED FOR PROPOSED DOOR.

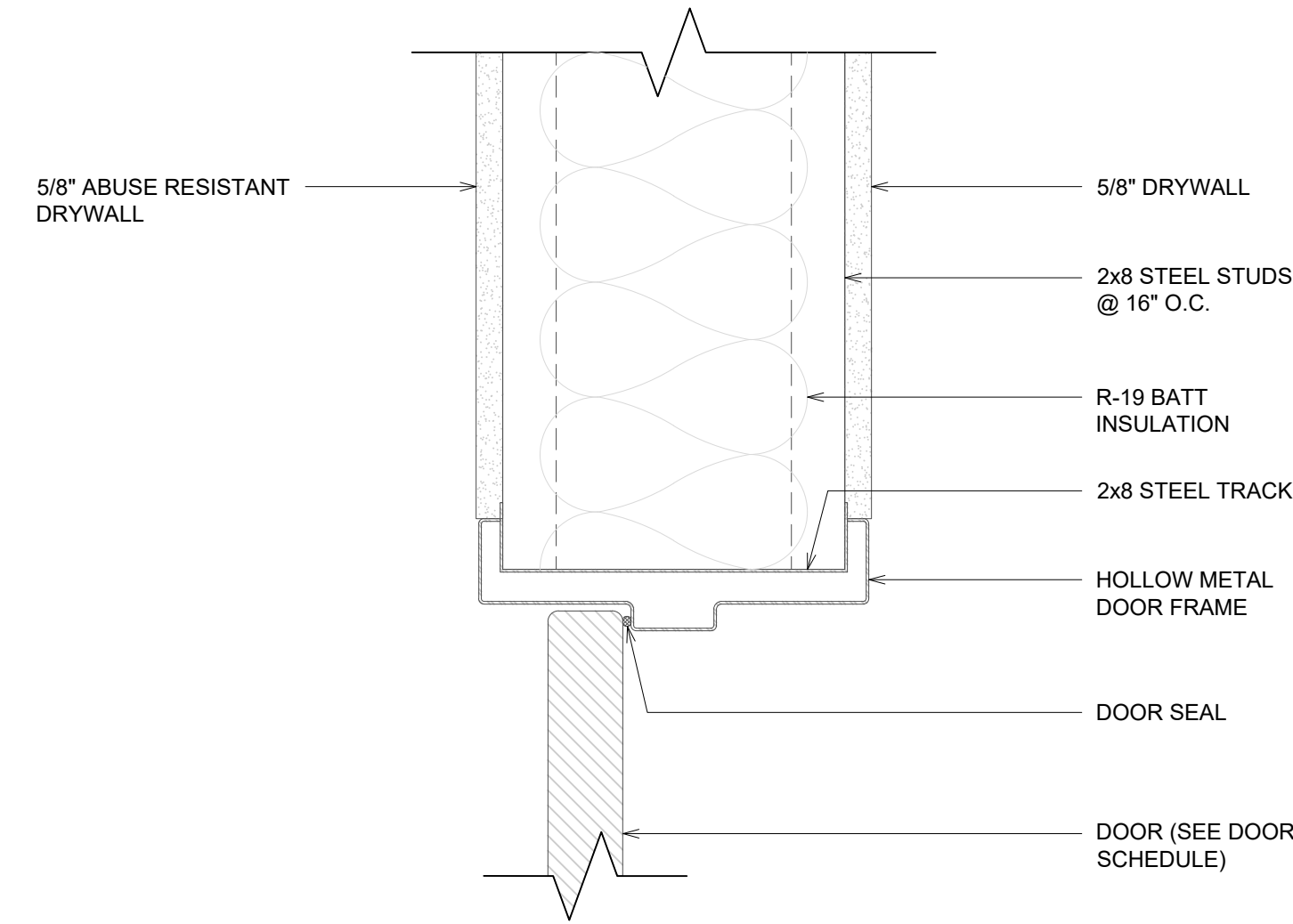


B2 DOOR & FRAME - SCHEDULE & TYPES

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

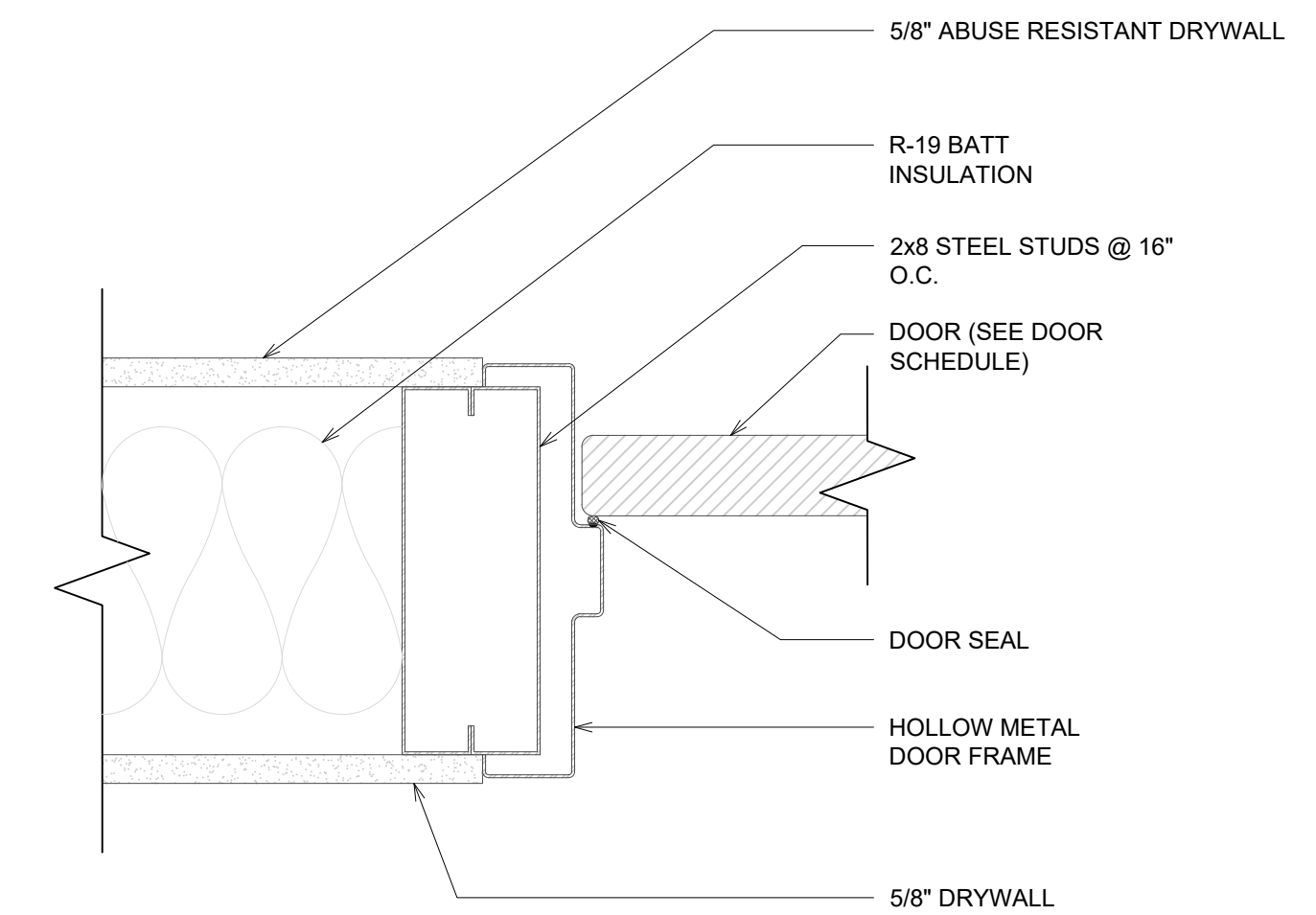
S6 SILL 1 DETAIL

SCALE: 3" = 1'-0"



S7 SILL 2 DETAIL

SCALE: 3" = 1'-0"



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No.	Description	Date

DOOR SCHEDULE

PROJECT NUMBER **23084**
DATED 03.15.2024

GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT FDOT DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE STATED OR SHOWN IN THE PLANS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BAY COUNTY STANDARDS AND SPECIFICATIONS, UNLESS APPROVED BY BAY COUNTY.
3. WHERE THE FDOT DESIGN STANDARDS DIFFER FROM THE BAY COUNTY STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY, UNLESS APPROVED BY BAY COUNTY.
4. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
5. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST, UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM, NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (800-432-4770) AND UTILITY OWNERS LISTED BELOW AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. THE CONTRACTOR SHALL WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT THE MARKS DURING CONSTRUCTION. IF THE MARKS ARE DESTROYED, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL FLORIDA AGAIN. THE CONTRACTOR SHALL DIG SAFELY, USING EXTREME CAUTION, WHEN DIGGING WITHIN 36 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.
8. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 522-001.
9. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.
10. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.
11. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION (STREET SIGNS) VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
12. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE ENGINEER SHALL COORDINATE WITH THE PROJECT ADMINISTRATOR PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
13. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROJECT ADMINISTRATOR OF DISCOVERY. THE PROJECT ADMINISTRATOR WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER. THE PROJECT ADMINISTRATOR WILL ADVISE THE ENGINEER.
14. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
15. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
16. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX.
17. CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS, IF THEIR LANDSCAPING IS TO BE REMOVED, TO COORDINATE THE REMOVAL AND POSSIBLE RELOCATION.
18. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS. AT CONTRACTORS EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT.
20. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
21. SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
22. ALL SIGNAGE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED BY CONTRACTOR AT NO ADDITIONAL COST.
23. ANY SIGNS DAMAGED BY THE CONTRACTOR OR STOCKPILED BY THE CONTRACTOR THAT BECOME DAMAGED SHALL BE REPLACED.
24. ALL PROPOSED INLETS SHALL HAVE 12" SLUMP BOTTOMS, OPEN BOTTOMS SHALL NOT BE ALLOWED IN AREAS WHERE HIGH GROUNDWATER EXISTS.
25. CONTRACTOR SHALL PROVIDE SIX (6) SETS OF AS-BUILT DRAWINGS AND ONE (1) DIGITAL COPY IN AUTOCAD FORMAT OF THE COMPLETED PROJECT. THE AS BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR.
26. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
27. WATER MAINS AND SEWER FORCE MAINS SHALL BE FLUSHED FOR A DURATION OF AT LEAST THAT AMOUNT OF TIME NEEDED TO FLUSH FIVE TIMES THE PIPE VOLUME AFTER ITS VELOCITY IS REACHED OR UNTIL CLEAR, WHICHEVER IS GREATER. MAXIMUM LENGTH OF PIPE BETWEEN FLUSHING ASSEMBLIES SHALL BE 5,000 FEET.
28. ALL ABANDONED UTILITIES SHALL BE REMOVED FROM THE GROUND, NOT ABANDONED IN PLACE.

CONSTRUCTION SEQUENCE AND BMP'S

- 1. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORM WATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/2" HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORM WATER BASIN.
2. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
3. SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE WITH THE STATE NPDES PROGRAM.
5. THE DESIGN OF THE STORM WATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

UTILITY GENERAL NOTES:

- 1. ALL MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND SPECIFICATIONS.
2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST EDITION.
3. ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
4. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE ITEMS ENCOUNTERED IN THE FIELD, w/ SIGNS, FENCING, POST, etc.
5. MAINS SHALL HAVE A MINIMUM OF 30" COVER UNLESS APPROVED BY ENGINEER.
6. CONTRACTOR IS TO FURNISH "AS BUILT" PLANS INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH DIMENSIONS TO THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
8. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER 48 HOURS PRIOR TO PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING. PRESSURE TESTING SHALL BE VALVE TO VALVE. CONTRACTOR SHALL USE 2" AIR RELEASE VALVE PORTS OR SHALL TAP THE WATER MAIN WITH A 1" TAPPING SADDLE.
9. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS, TAPS, EQUIPMENT AS REQUIRED FOR FLUSHING SYSTEM, PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION.
12. UTILITIES SHOWN ON THE PLAN MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
14. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON, NOT PVC.
15. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS.
16. ALL CONCRETE ENCASED DUCTILE IRON SHALL BE WRAPPED WITH A PLASTIC MATERIAL AND TAPED TOGETHER BEFORE CONCRETE IS PLACED AROUND THE PIPE.
17. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6" CLEARANCE EACH WAY IN THE AXIAL DIRECTION.
18. THE CONTRACTOR SHALL REMOVE AND REPLACE TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW UTILITIES.
19. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7 DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
20. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
21. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
22. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
23. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
24. INSULATED 10 GA. LOCATING WIRE SHALL BE INSTALLED ON TOP OF ALL NON-METALIC PIPE, WHICH INCLUDES SERVICE CONNECTIONS. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS SHOWN IN THE DETAILS.
25. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
26. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
27. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF PERMITS.
28. ALL DISTURBED AREAS SHALL BE SODDED.
29. A 30 INCH STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL PAVED AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
30. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.
31. CONTRACTOR SHALL COMPLETE RESTORATION WITHIN 2 WEEKS OF SUCCESSFUL PIPE PRESSURE TESTING AT ANY GIVEN LOCATION. TEST SHALL BE PERFORMED VALVE TO VALVE WITHIN ONE WEEK OF COMPLETING THAT SECTION. PRESSURE TESTING SHALL TAKE PLACE EVERY 2 WEEKS DURING CONSTRUCTION FOR ANY PIPE INSTALLED IN THAT PERIOD.
32. CALL THE BAY COUNTY UTILITY DEPARTMENT 72 HOURS IN ADVANCE OF TAPPING OR CONNECTING TO ANY COUNTY UTILITIES (850-248-5010).

EARTHWORK AND PAVING NOTES:

- 1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED, MULCHED, SODDED, STABILIZED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, WITHIN FIVE (5) DAYS AFTER CONSTRUCTION.
2. ALL FILL MATERIAL SHALL NOT INCLUDE ORGANIC, OR OTHER DELETERIOUS MATERIALS AND BE CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE. IF ANY FILL MATERIAL IS PLACED WITHIN THE STORMWATER MANAGEMENT FACILITIES IT MUST HAVE INFILTRATION RATES EQUAL TO OR GREATER THAN THE EXISTING SOILS AS STATED IN THE GEOTECHNICAL ENGINEERING REPORT.
3. ORGANIC, UNSUITABLE SOILS BENEATH THE PAVED AND BUILDING PAD AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE. FILL MATERIAL SHALL BE FREE OF ORGANICS, RUBBLE, CLAY, OR OTHER DELETERIOUS MATTER.
4. THE PAVEMENT SUBGRADE SHOULD BE STABILIZED TO AN LBR OF 40. MATERIAL FOR STABILIZATION SHALL BE EITHER LIMEROCK, CRUSHED SHELL, OR OTHER MATERIAL APPROVED BY THE ENGINEER. STABILIZING MATERIALS MUST BE IN CONFORMANCE WITH FDOT SPECIFICATIONS.
5. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
7. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.) EXCEPT ASPHALT.
8. THE GEOTECHNICAL ENGINEERING REPORT PERFORMED BY MAGNUM ENGINEERING DATED JANUARY 19, 2024 UNCOVERED CLAYEY SANDS AT DEPTHS OF 1' TO 2' BELOW EXISTING GRADE. IF THESE SOILS ARE DISCOVERED TO BE PRESENT WITHIN THE STORMWATER MANAGEMENT FACILITY POND BOTTOM DURING CONSTRUCTION THEY WILL NEED TO BE REMOVED AND REPLACED BY CLEAN SAND MATERIAL. THE CLEAN SAND MATERIAL SHALL BE COMPOSED OF SOIL WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH AND FREE OF ORGANICS OR OTHER DELETERIOUS MATTER.



ARCHITECTS

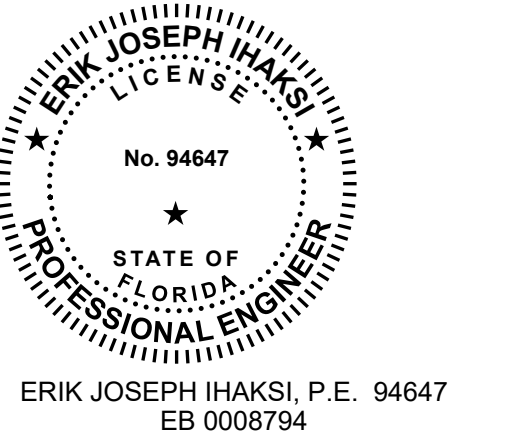
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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409



ERIK JOSEPH HAWKS, P.E. 94647
EB 0008794

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GENERAL NOTES

C1
PROJECT NUMBER 50171019
DATED JANUARY 31, 2024



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NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409

ERIK JOSEPH IHAKSI, P.E. 94647
EB 000794

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SWPPP

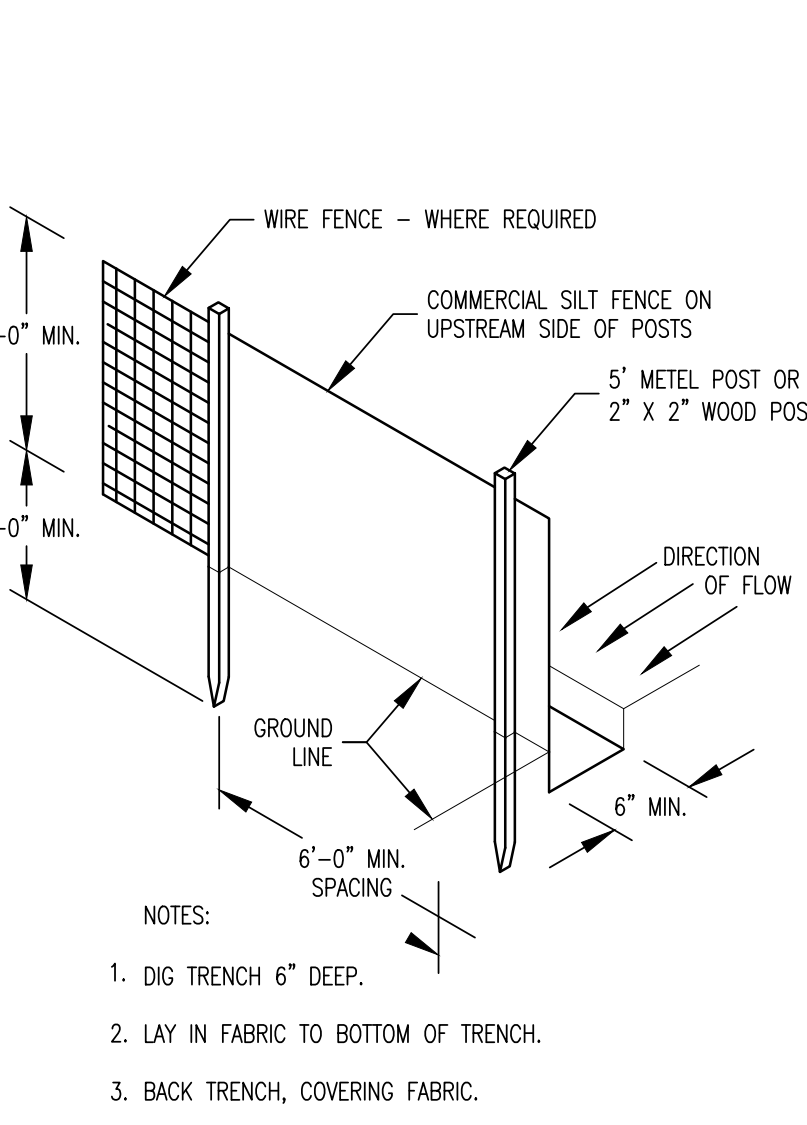
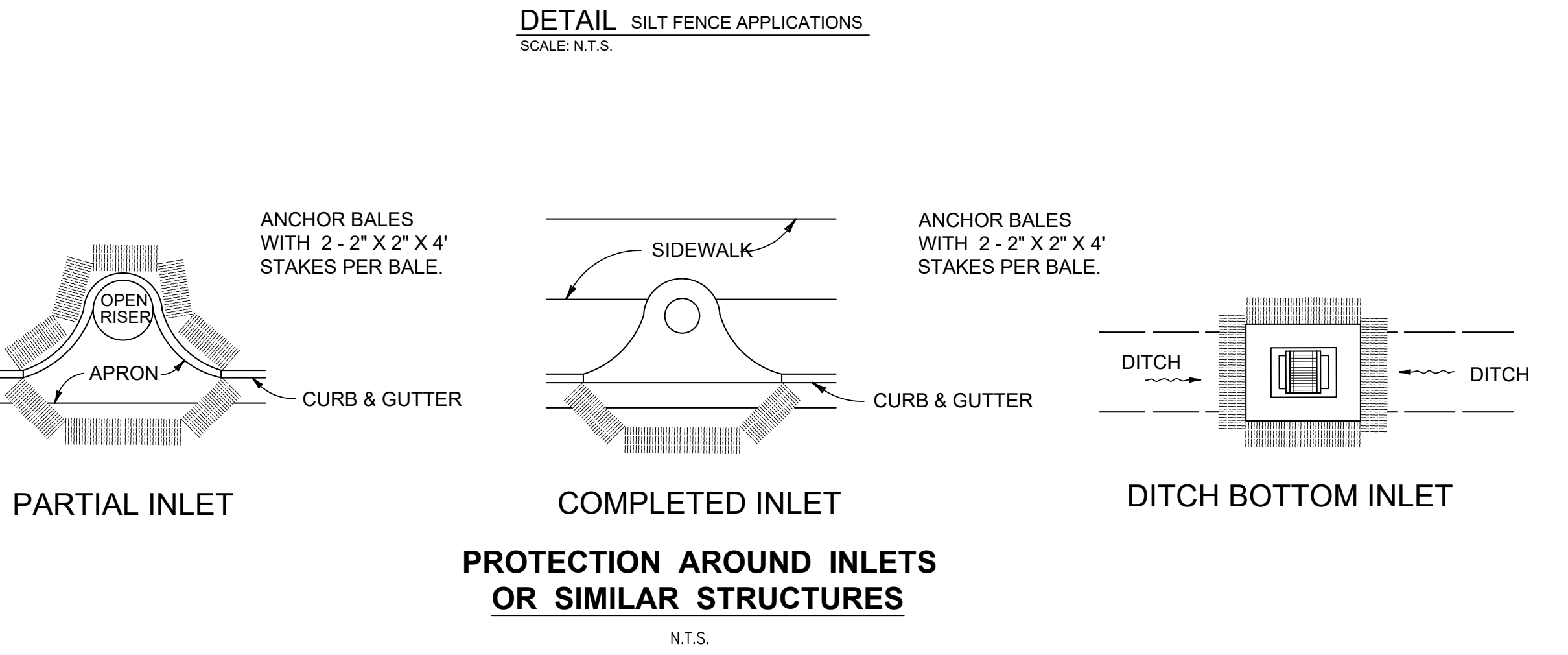
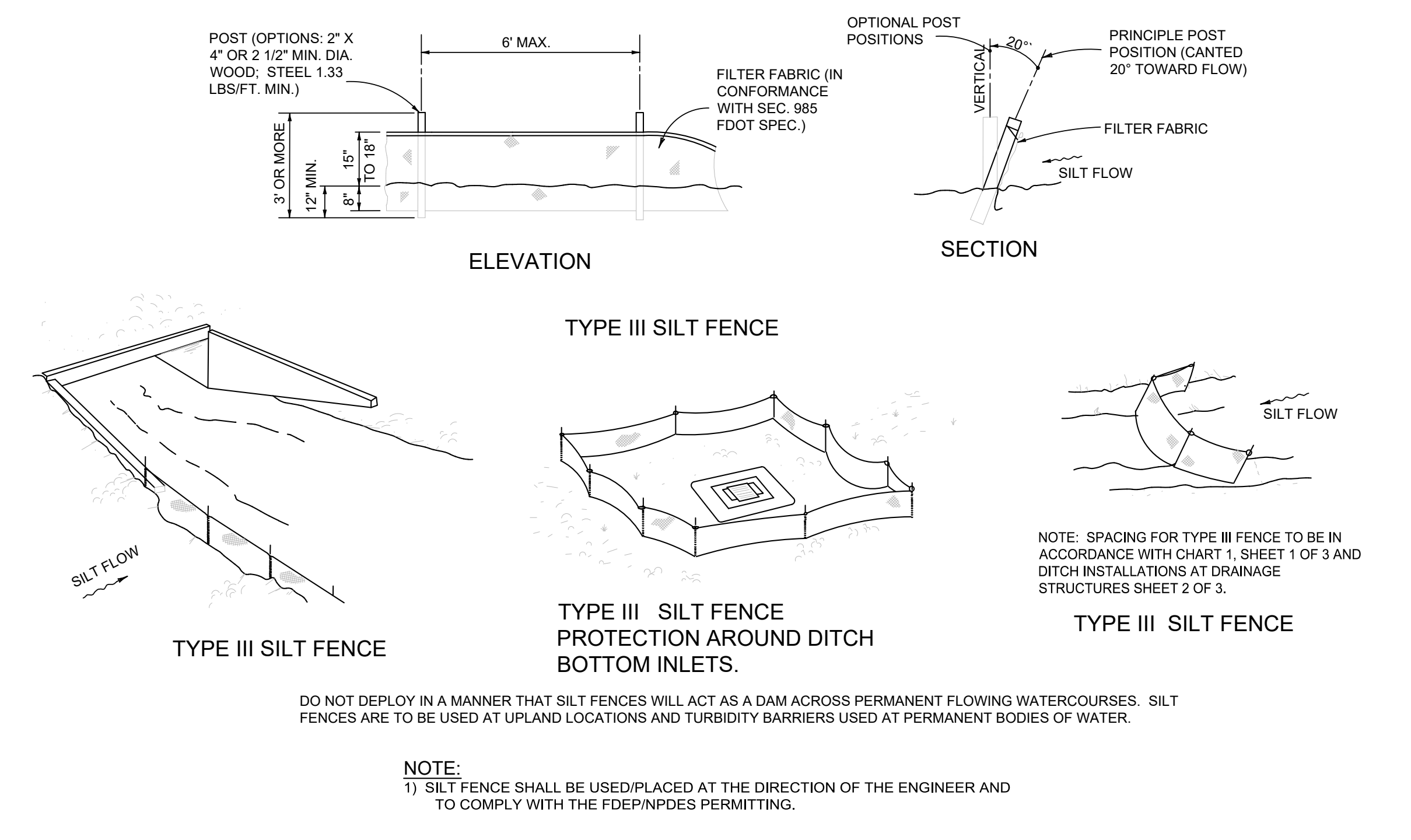
C2
PROJECT NUMBER 50171019
DATED JANUARY 31, 2024

EROSION AND SEDIMENT CONTROL NOTES:

- 1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
2. AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK.
4. TEMPORARY EROSION CONTROL SHALL CONSIST OF SOIL GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS.
5. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS.
6. GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS.
7. GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS.
8. GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS.
9. SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS.
10. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS.
11. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS.

STORMWATER POLLUTION PREVENTION PLAN:

- 1. SITE DESCRIPTION:
A. CONSTRUCTION ACTIVITY: NEW HANGAR AND HELIPAD APRON.
PROJECT LIMITS: SEE SHEET C4.
PROJECT DESCRIPTION: CONSTRUCTION OF A NEW HELICOPTER HANGAR WITH THE SUPPORTING STORMWATER, UTILITIES, AND SITEWORK AS ILLUSTRATED IN THIS SET OF PLANS.
B. MAJOR SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING OVER PROJECT LIMITS, EXCAVATION OF A STORMWATER FACILITIES, CONSTRUCTION OF ROADWAYS, AND INSTALLATION OF UTILITIES.
C. TOTAL PROJECT AREA: 0.96 ACRES
TOTAL SOIL AREA TO BE DISTURBED: 0.96 ACRES
D. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.40, DURING: 0.50, AFTER: 0.54
(2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A
(3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: SEE PLANS
E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: SEE PLANS
F. (1) NAME OF RECEIVING WATERS: CHARLIE WILLIAMS BRANCH
(2) WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED
2. CONTROLS:
NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.
A. EROSION AND SEDIMENT CONTROLS:
(1) STABILIZATION PRACTICES:
TEMPORARY SOODING
X TEMPORARY GRASSING
X PERMANENT PLANTING, SODDING, OR SEEDING
TEMPORARY MULCHING
ARTIFICIAL COVERING
X BUFFER ZONES
X PRESERVATION OF NATURAL RESOURCES
(2) STRUCTURAL PRACTICES:
SAND BAGGING
X SILT FENCES
X HAY BALES
BERMS
DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
PIPE SLOPE DRAINS
FLUMES
X ROCK BEDDING AT CONSTRUCTION EXIT
TIMBER BEDDING AT CONSTRUCTION EXIT
DITCH LINER
SEDIMENT TRAPS
SEDIMENT BASINS
STORM INLET SEDIMENT TRAP (ROCK BAGS)
X STONE OUTLET STRUCTURES
CURBS AND GUTTERS
X STORM SEWERS
X VELOCITY CONTROL DEVICES
TURBIDITY BARRIER
X RIP RAP
DESCRIPTION OF STORMWATER MANAGEMENT: ERP AND BAY COUNTY REQUIREMENTS FOR TREATMENT AND ATTENUATION; PROPOSED STORMWATER MANAGEMENT FACILITIES WILL DISCHARGE TO UNNAMED WETLANDS AND ULTIMATELY TO CHARLIE WILLIAMS BRANCH.
B. OTHER CONTROLS:
(1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
(2) OFFSITE VEHICLE TRACKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
X EXCESS DIRT ON ROAD REMOVED DAILY
X STABILIZED CONSTRUCTION ENTRANCE
(3) SANITARY WASTE: N/A
(4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER
(5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.
C. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: ERP STORMWATER PERMIT.
3. MAINTENANCE: ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
A. ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.50" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE ENGINEERING DEPARTMENT AT FDEP PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



DETAIL SILT FENCE SCALE: N.T.S.



TEMPORARY SITE CONTROL POINTS:

DESCRIPTION	NORTHING	EASTING	ELEV. (NAVD 1988)
T1 SET NAIL AND DISK L.B. 8011	474608.59'	1602633.75'	25.20'
T2 SET NAIL AND DISK L.B. 8011	474862.04'	1602614.12'	26.08'

NEW HANGAR AND HELIPAD PROJECT FOR:
**BAY COUNTY SHERIFFS
 OFFICE**
 642 HIGHWAY 2300, SOUTHPORT, FL 32409

ERIK JOSEPH IHAKSI, P.E. 94647
 EB 0008794

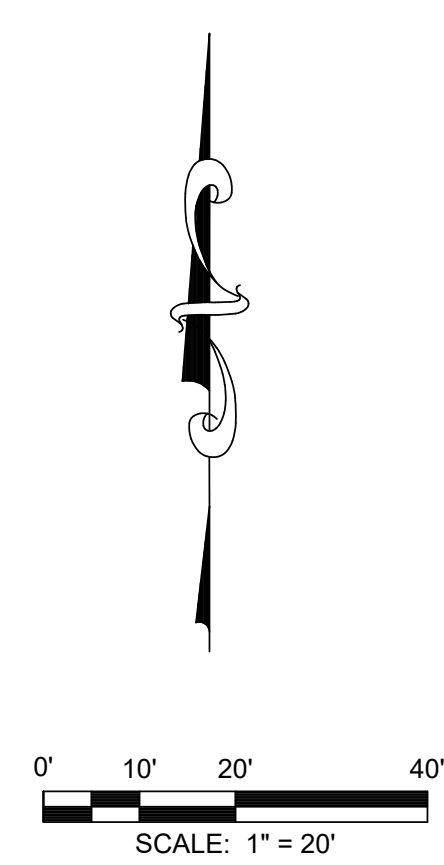
REVISIONS:

No.	Description	Date

DEMO & EROSION
 CONTROL PLAN

C3

PROJECT NUMBER 50171019
 DATED JANUARY 31, 2024



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NEW HANGAR AND HELIPAD PROJECT FOR:
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OFFICE**

642 HIGHWAY 2300, SOUTHPORT, FL 32409

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EB 0006794

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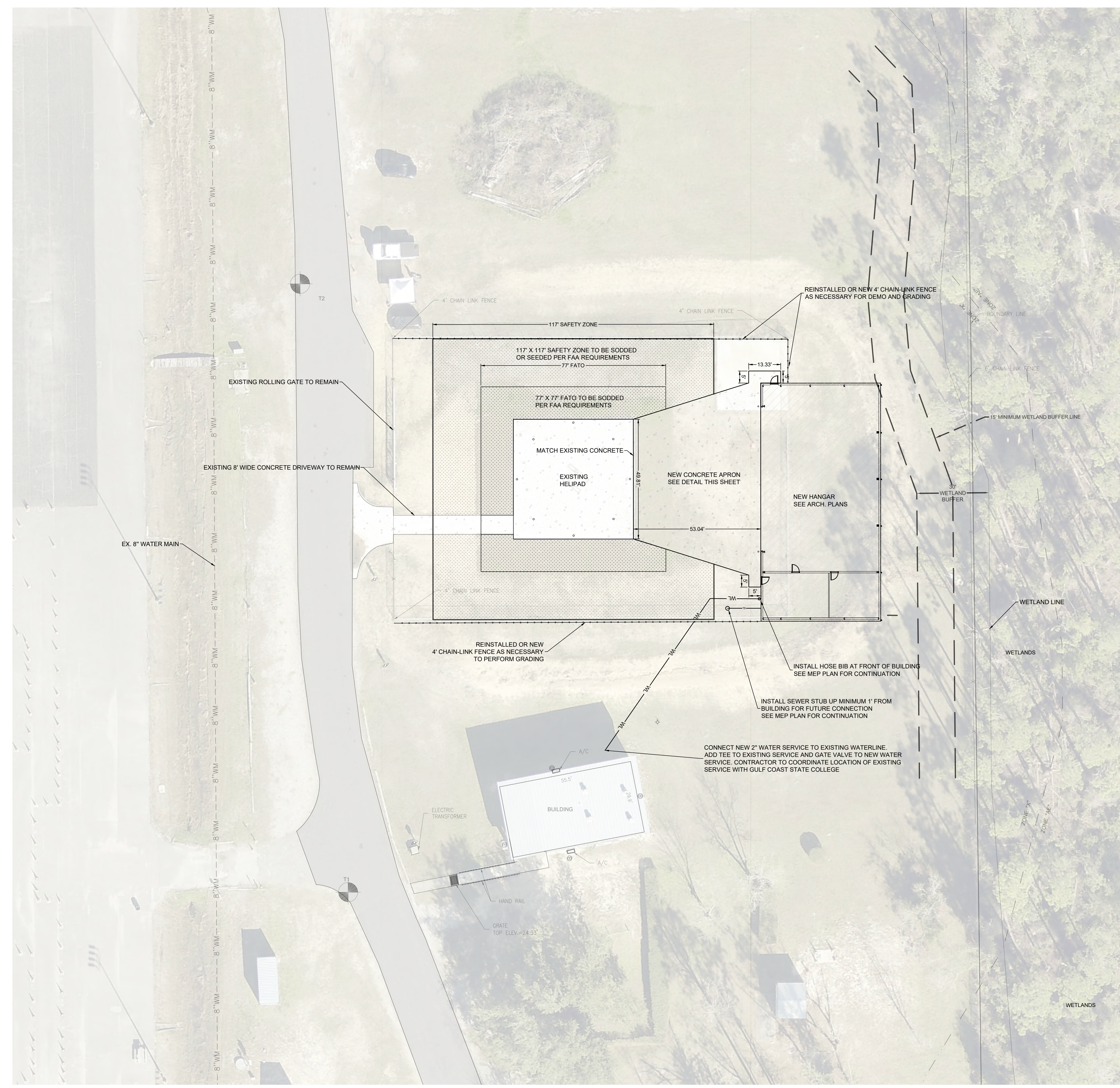
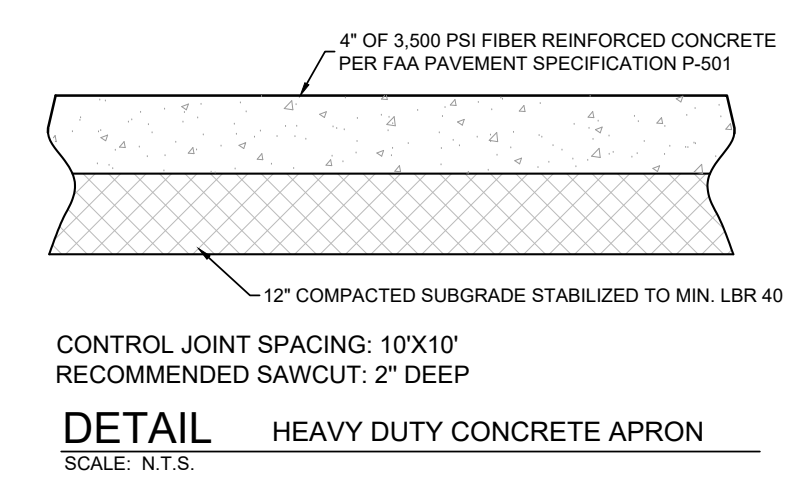
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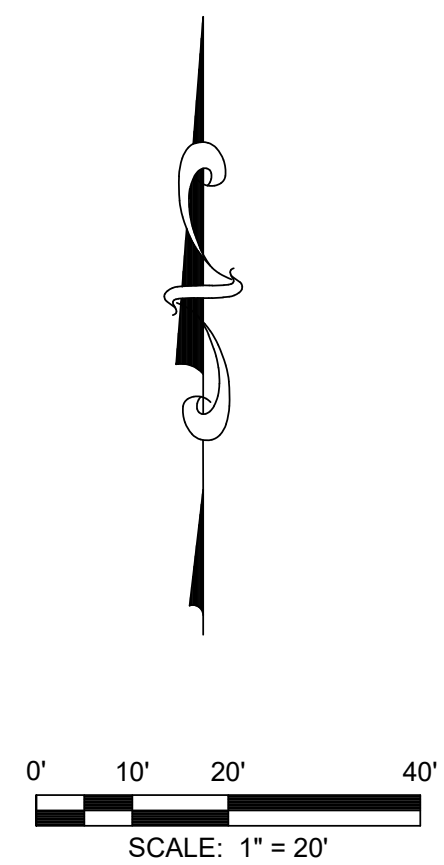
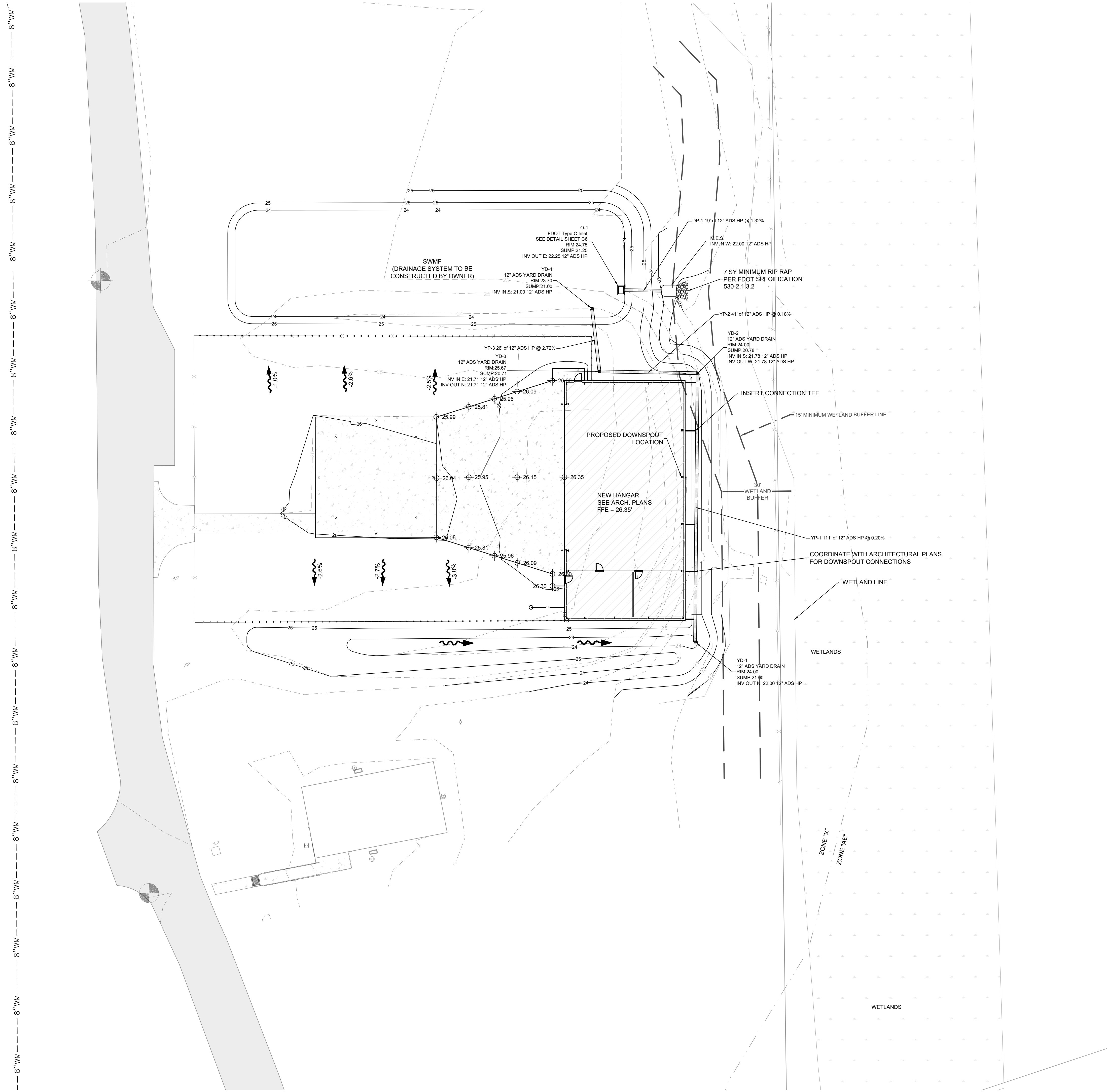
SITE PLAN

C4

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024

- UTILITY NOTES:
1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF EXISTING UTILITIES.
 2. 2" PVC WATERMAIN SHALL BE ASTM D2241 DR21, PRESSURE CLASS 200 PSI.
 3. PVC WATER MAIN SHALL BE BLUE.
 4. ALL UTILITIES SHALL BE IN ACCORDANCE WITH BAY COUNTY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WATER AND WASTEWATER CONSTRUCTION.





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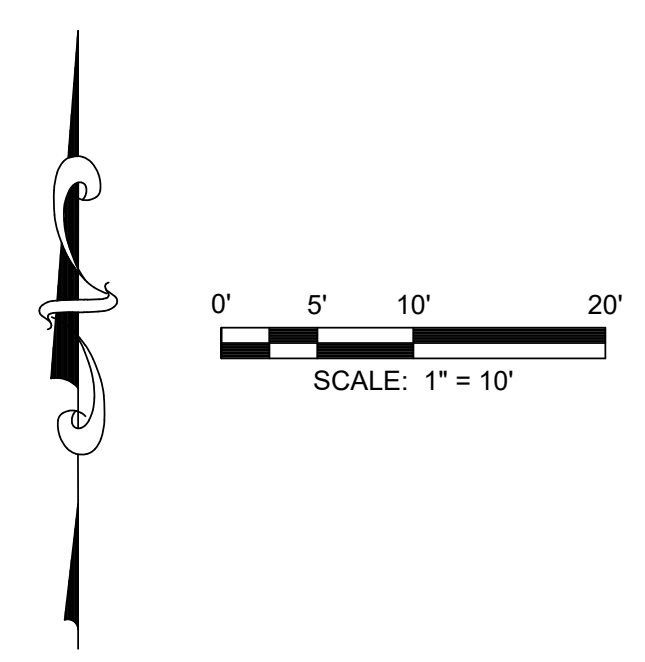
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No.	Description	Date

GRADING &
DRAINAGE PLAN

C5

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024



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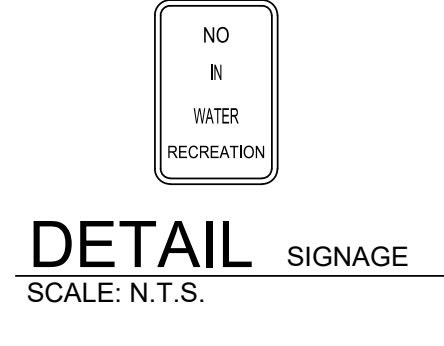
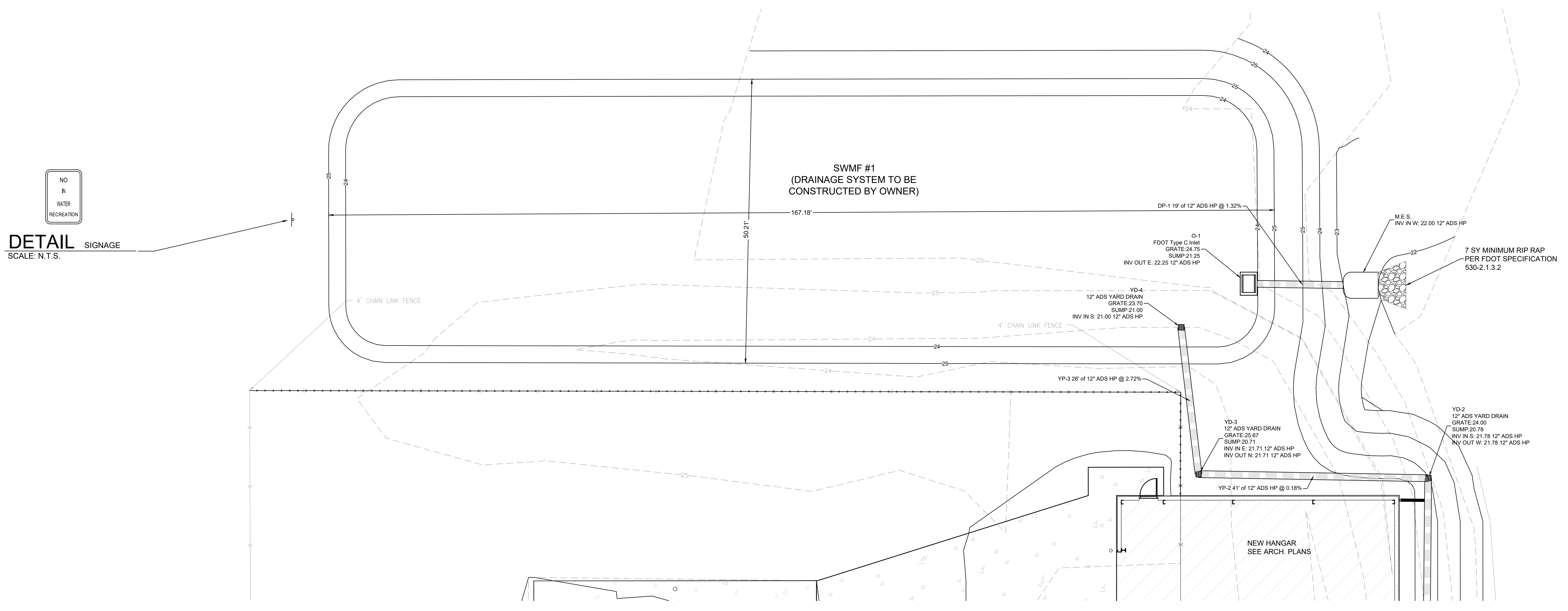
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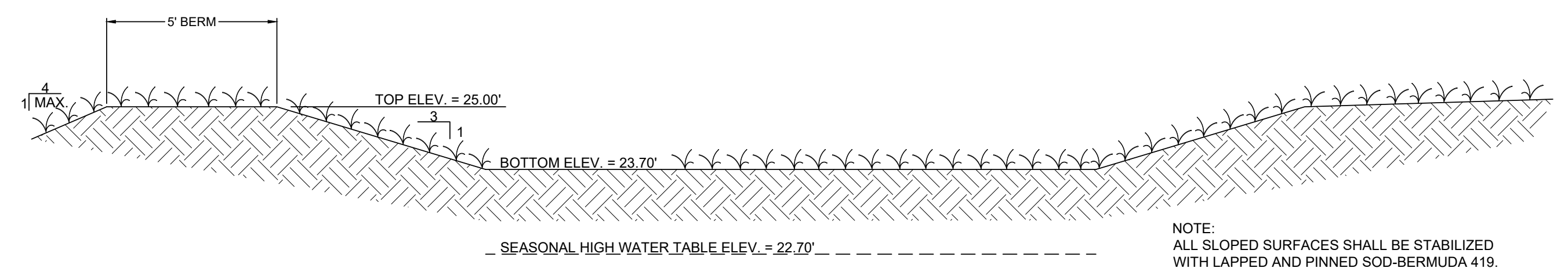
CONSTRUCTION
DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
**BAY COUNTY SHERIFFS
OFFICE**
642 HIGHWAY 2300, SOUTHPORT, FL 32409



PLAN SWMF # 1
SCALE: 1"=10'

NOTE:
THE GEOTECHNICAL ENGINEERING REPORT PERFORMED BY MAGNUM ENGINEERING DATED JANUARY 19, 2024 ENCOUNTERED CLAYEY SANDS AT DEPTHS OF 1' TO 2' BELOW EXISTING GRADE. IF THESE SOILS ARE DISCOVERED TO BE PRESENT WITHIN THE STORMWATER MANAGEMENT FACILITY POND BOTTOM DURING CONSTRUCTION THEY WILL NEED TO BE REMOVED AND REPLACED BY CLEAN SAND MATERIAL. THE CLEAN SAND MATERIAL SHALL COMPOSE OF SOIL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE.

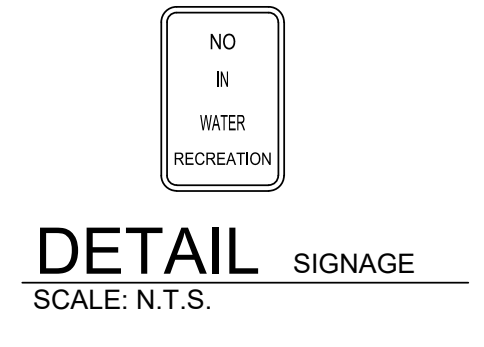


SECTION TYPICAL POND SECTION
SCALE: N.T.S.

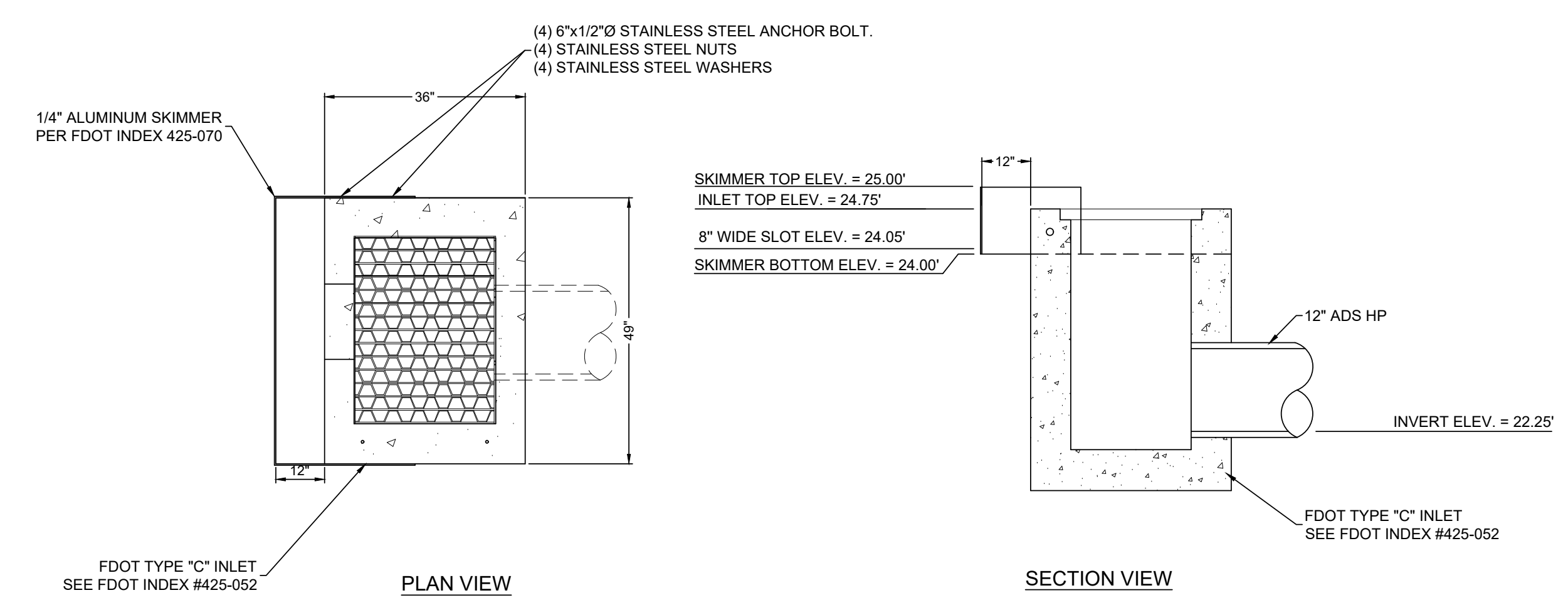
NOTE:
ALL SLOPED SURFACES SHALL BE STABILIZED WITH LAPPED AND PINNED SOG-BERMUDA 419.
ALL DISTURBED FLAT SURFACES SHALL BE STABILIZED PURSUANT TO THE FOLLOWING HYDROSEED MIX:

PLANTING DATE OF APRIL 1 - OCTOBER 31
HULLED BERMUDA @ 2LBS PER 1,000 S.F.
BROWN TOP MILLET - @ 8LB PER 1,000 S.F.
70/30 MULCH @ 50 LBS PER 1,000 S.F.
16-16 FERTILIZER @ 4LBS PER 1,000 S.F.

PLANTING DATE OF NOVEMBER 1 - MARCH 31
UNHULLED BERMUDA @ 2LBS PER 1,000 S.F.
ANNUAL RYE - @ 8LB PER 1,000 S.F.
70/30 MULCH @ 50 LBS PER 1,000 S.F.
16-16 FERTILIZER @ 4LBS PER 1,000 S.F.



DETAIL SIGNAGE
SCALE: N.T.S.



DETAIL TYPE C CONCRETE DISCHARGE STRUCTURE (O-1)
SCALE: N.T.S.

STORMWATER OPERATION/MAINTENANCE PLAN
OPERATION AND MAINTENANCE ENTITY IS BAY COUNTY
AFTER EACH RAINFALL EVENT

- PAVEMENT AREAS - CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS.
 - SEDIMENTS IN RETENTION/DETENTION AREAS - REMOVED IMMEDIATELY.
 - DEBRIS IN RETENTION/DETENTION AREAS - ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED IMMEDIATELY.
 - YARD INLETS, CATCH BASINS, ETC. - ALL DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED IMMEDIATELY.
- PERIODIC POND/SYSTEM MAINTENANCE**
- CLEANING/SWEEPING OF PAVEMENT AREAS SHALL BE ACCOMPLISHED WEEKLY OR AS REQUIRED.
 - INSPECT POND PERIODICALLY FOR ACCUMULATION OF TRASH AND DEBRIS AND REMOVE IT UPON DISCOVERY.
 - MOWING AND LANDSCAPING MAINTENANCE SHOULD BE DONE ON A MONTHLY BASIS DURING THE ACTIVE GROWING SEASON FOR THE AREA. INSPECT AND MAINTAIN AS REQUIRED DURING THE GROWING SEASON.
 - WEEDS OR UNDESIRABLE GROWTH SHALL BE REMOVED UPON DISCOVERY.
 - CATCH BASINS SHALL BE FLUSHED AS NECESSARY (IF ANY).
 - THE OWNER SHALL RE-GRADE AND RE-STABILIZE SWALE/RETENTION/DETENTION AREAS AS REQUIRED TO MAINTAIN THE APPROVED DESIGN, CROSS-SECTION, LINE, AND GRADE.
 - REMOVE SEDIMENT FROM POND WHEN ACCUMULATION REACHES FOUR (4) INCHES. MEASURE ACCUMULATION ONCE A YEAR.

INSPECTIONS

- A MAINTENANCE INSPECTION MUST BE PERFORMED EVERY THIRD YEAR BY A REGISTERED PROFESSIONAL.
- THE MAINTENANCE INSPECTION MUST BE DOCUMENTED ON THE FDEP AND/OR NFWMD STANDARD INSPECTION FORM (62-330.3111).
- THE INSPECTION MUST BE SIGNED, SEALED, AND DATED BY THE REGISTERED PROFESSIONAL.
- THE INSPECTION MUST BE CONDUCTED USING THE PLANS, CALCULATIONS AND SPECIFICATIONS APPROVED BY THE FDEP AND/OR NFWMD.

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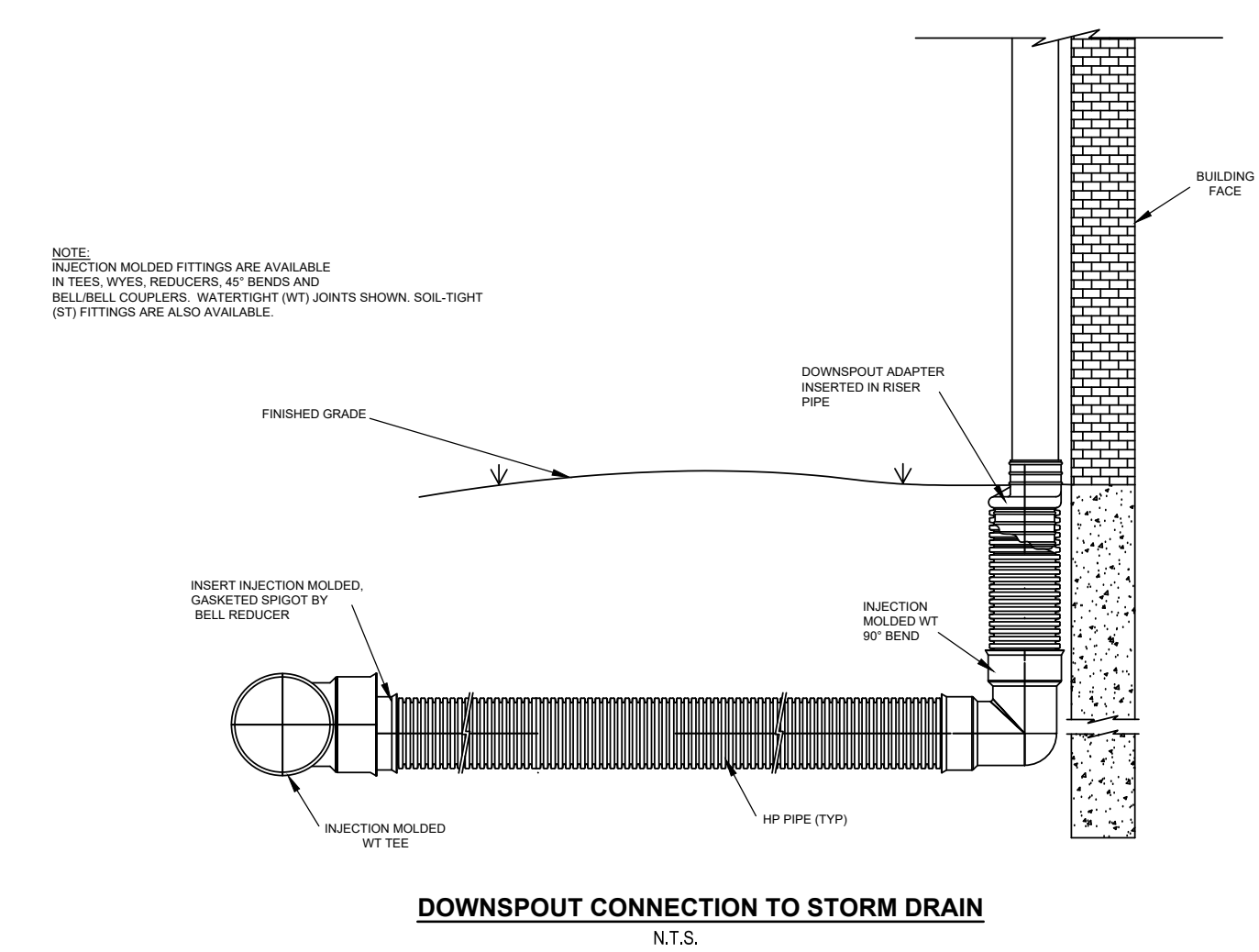
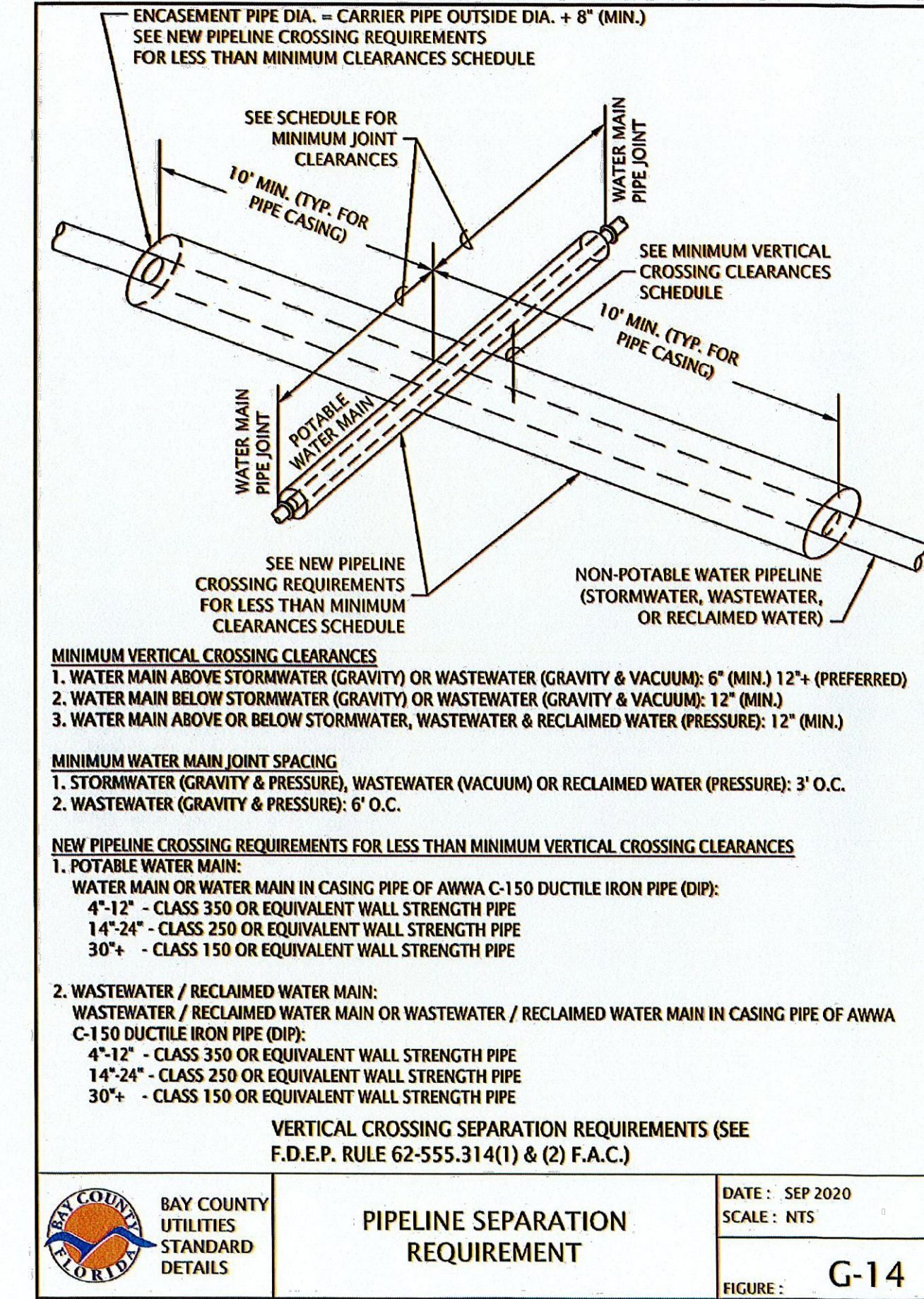
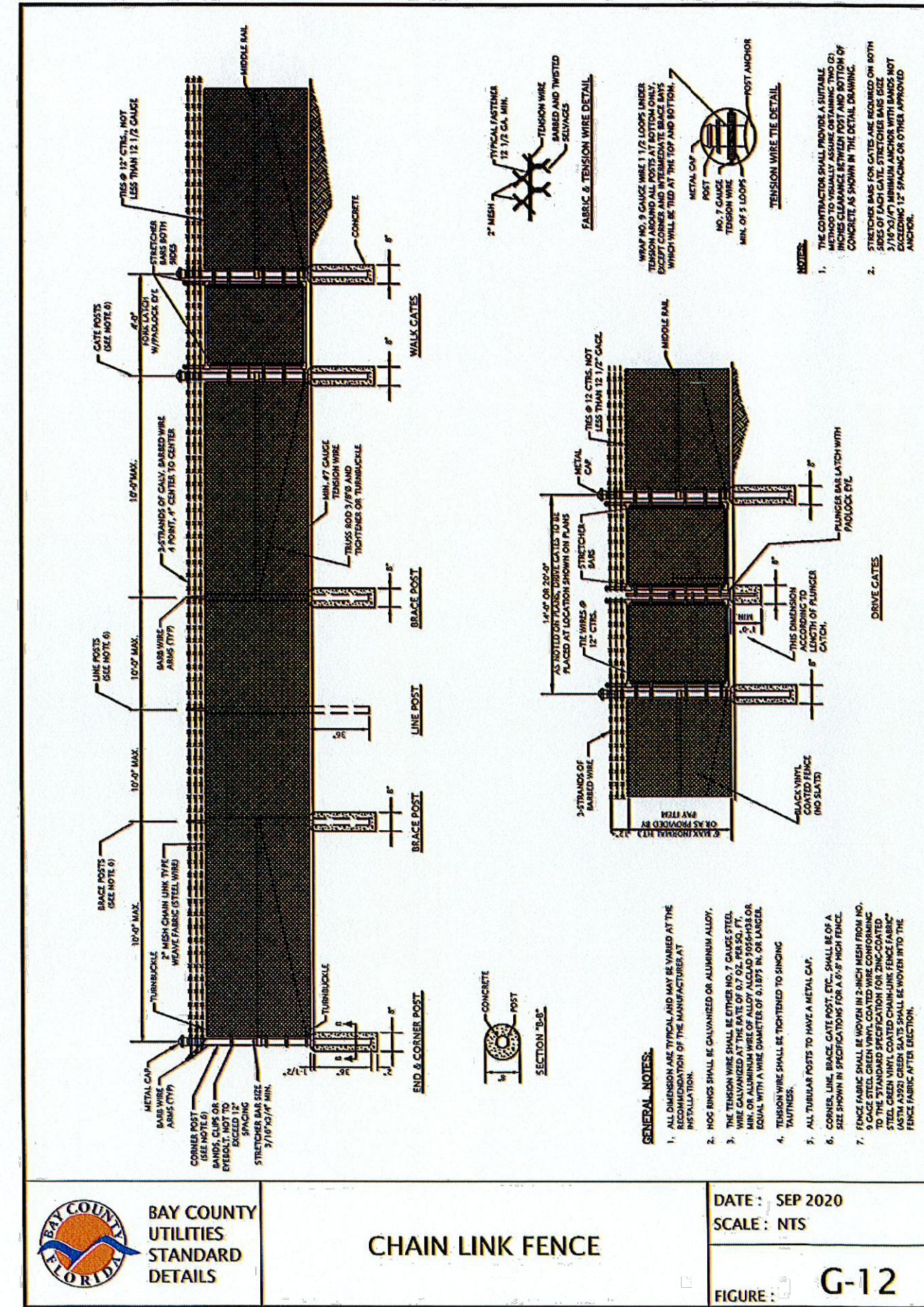
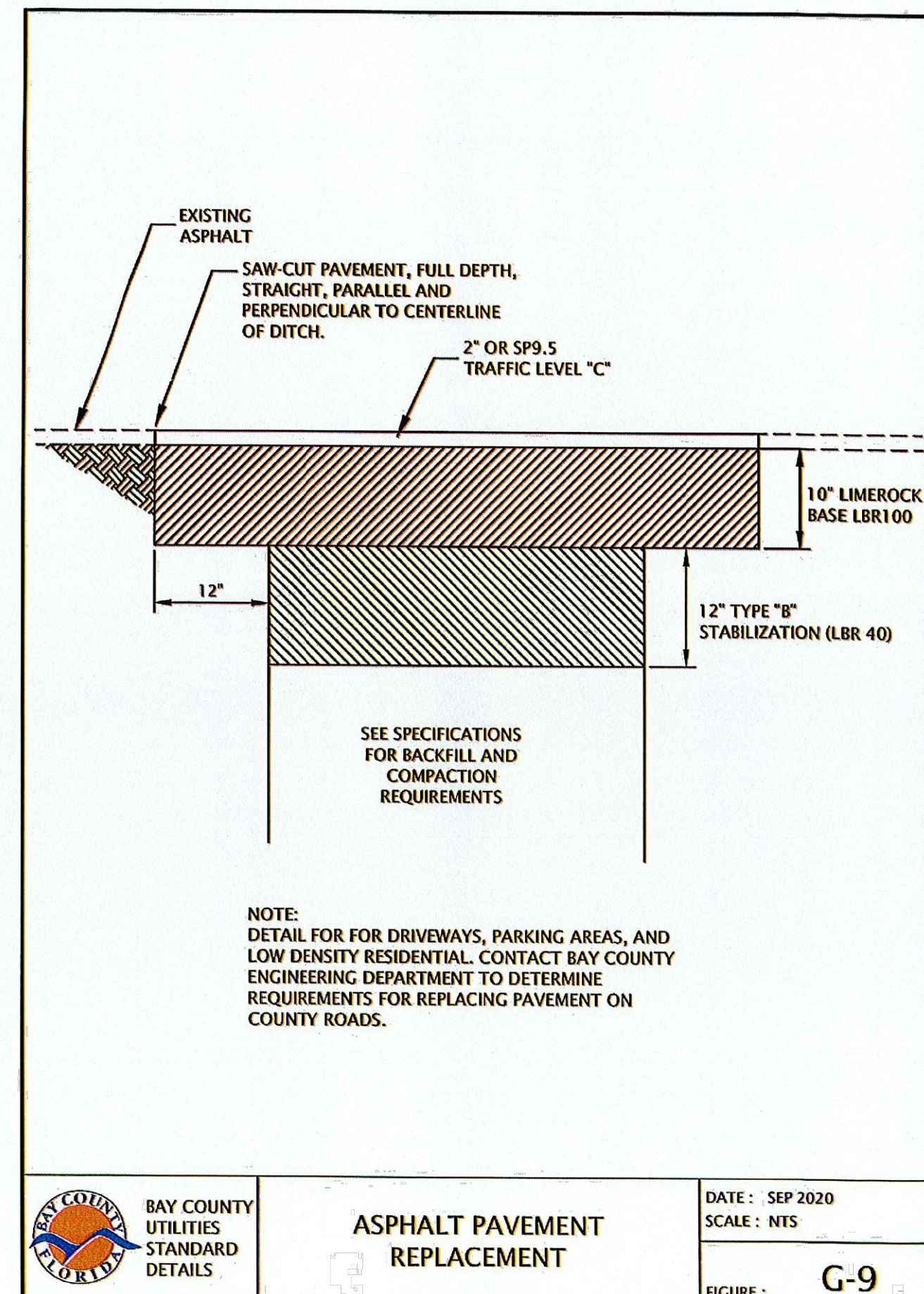
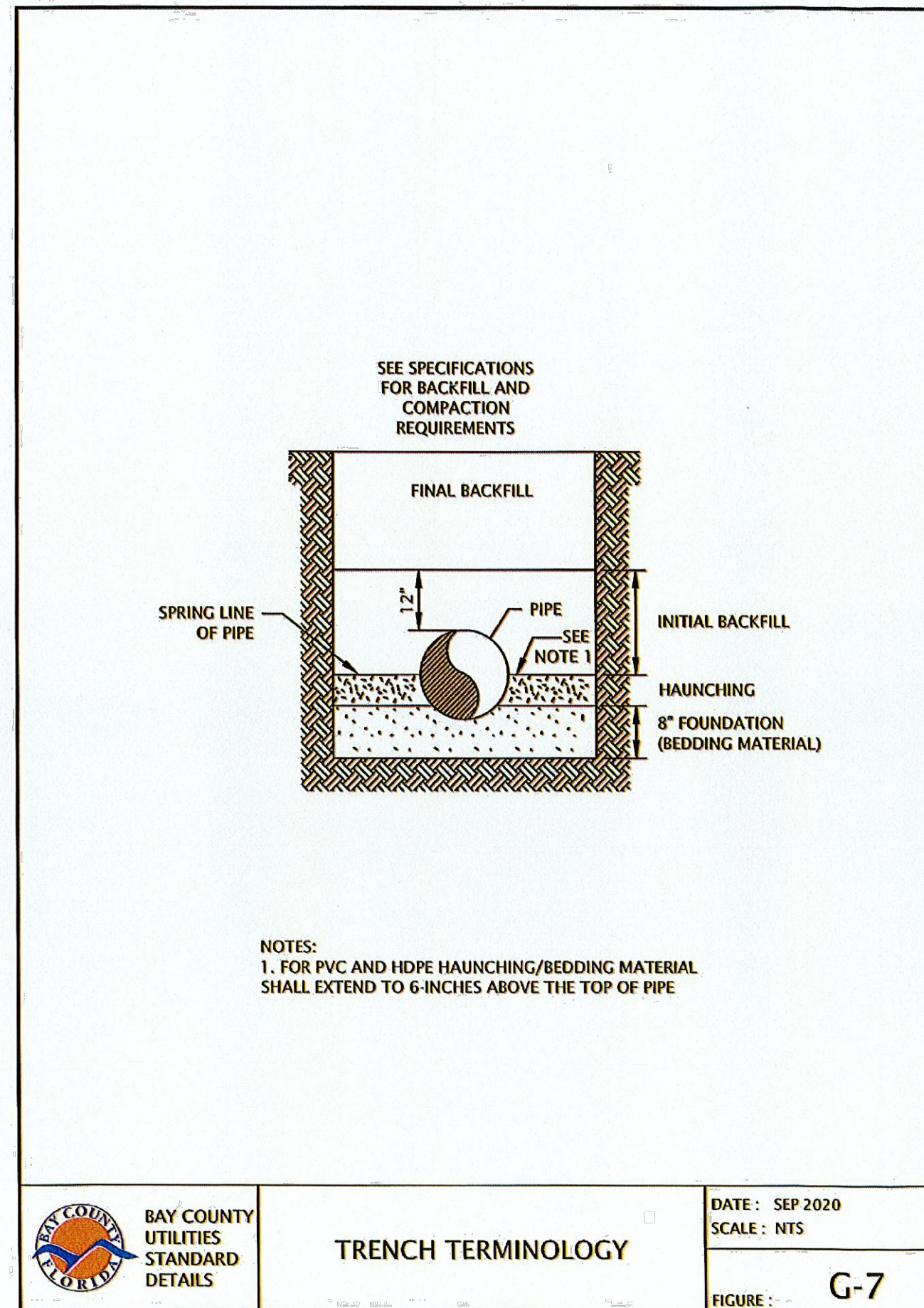
REVISIONS:

No.	Description	Date

SWMF DETAILS

C6

PROJECT NUMBER 50171019
DATED JANUARY 31, 2024



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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409

ERIK JOSEPH IHAKSI, P.E. 94647
EB 0008794

REVISIONS:

No.	Description	Date

MISCELLANEOUS DETAILS
D1
PROJECT NUMBER 50171019
DATED JANUARY 31, 2024

ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL "AV" EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. GENERAL CONTRACTOR SHALL FIELD-VERRY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2017 NATIONAL ELECTRIC CODE AND 2023 FBC. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
11. OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16).
13. WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

ELECTRICAL LEGEND

CEILING OUTLETS
'A' RECESSED 2' X 4' LED/FLUORESCENT FIXTURE MARK "A" CIRCUIT TYPICAL

'A' SURFACE/SUSPENDED 4' MODULAR HIGH BAY LED/FLUORESCENT FIXTURE MARK "A" CIRCUIT TYPICAL

PANELS AND POWER
 120/208 VOLT PANELBOARD
 NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)
S A.C. TYPE, 20 AMP, 120/277 VOLT

MISCELLANEOUS
A.F.F. ABOVE FINISH FLOOR
B.F.C. BELOW FINISHED CEILING

BRANCH CIRCUITING
 RUN CONCEALED UNDER FLOOR OR IN GRADE
 RUN CONCEALED IN CEILING OR WALLS
 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND-1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; 4#12, 1#12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
 LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
 SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

WALL OUTLETS
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 DUPLEX WEATHERTIGHT RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ADJACENT TO TELEVISION OUTLET AT SAME HEIGHT.
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
 DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 SURFACE-MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED); SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED
 WALL MOUNTED HIGH INTENSITY DISCHARGE FIXTURE
 WALL MOUNTED EMERGENCY UNIT BATTERY PACK
 WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE
 SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
BP	CHLORIDE CLU2NW	2	1.0 W LED	WALL (SEE DWG)	120/277V WHITE THERMOPLASTIC EMERGENCY BATTERY PACK... FURNISH W/ SELF-TEST
BPX	CHLORIDE CLCNRW	--	LED	WALL @ 7'-6" AFF	WHITE THERMOPLASTIC BATTERY PACK/EXIT SIGN COMBO, 120/277V...FURNISH W/ SELF-TEST DIAGNOSTICS
LFP4	H.E. WILLIAMS #LT-24-L64-835-AF-DIM-UNV	49W	3500K LED	CEILING LAY-IN	2'X4' LED FLAT PANEL LAY-IN, STD 0-10V DIMMING, 120V.
HB	H.E. WILLIAMS #GS-4-L360-850-HA-MD-(L270)-GS-HUB MT-DIM-UNV	175W	4000K LED	PENDANT MOUNT	4' LED, MODULAR HIGH BAY, STD 0-10V DIMMING, UNV VOLT, FIXT TO BE FURNISHED W/ CAST IRON HUB MT FOR SINGLE 3/4" C PDT MT; EC TO FURN PDT & FIELD-CUT FOR DESIRED HT
WBE	H.E. WILLIAMS #WVPH-L60-740-TFT-CGL-DIM-UNV	70W	4000K LED	WALL (SEE DWG)	EXTERIOR WALLPACK, FINISHED BY ARCH., 120V... FURNISH W/ EMERGENCY BACKUP BATTERY FOR EMERGENCY EGRESS CODE COMPLIANCE
WB36E	H.E. WILLIAMS #WVPH-L30-740-T3-SDGL-EM/10WC-DIM-UNV	36W	4000K LED	WALL (SEE DWG)	EXTERIOR WALLPACK, FINISHED BY ARCH., 120V... FURNISH W/ EMERGENCY BACKUP BATTERY FOR EMERGENCY EGRESS CODE COMPLIANCE



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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

ELECTRICAL LEGEND, SCHEDULE, & NOTES

PROJECT NUMBER **23084**
DATED **01.31.2024**

WATFORD ENGINEERING
4432 Clinton Street Maitland, Florida 32751
3111 N. College St. Office 1018 Auburn, AL 36850

Florida CA Number: 27625
Anthony Davis, PE
Florida License Number: 07419
850.520.2447
Project Number: 2023-118
Checked By: ALD
Drawn By: JMS

CIRCUIT BREAKER PANEL SCHEDULE
PANEL 'HP'

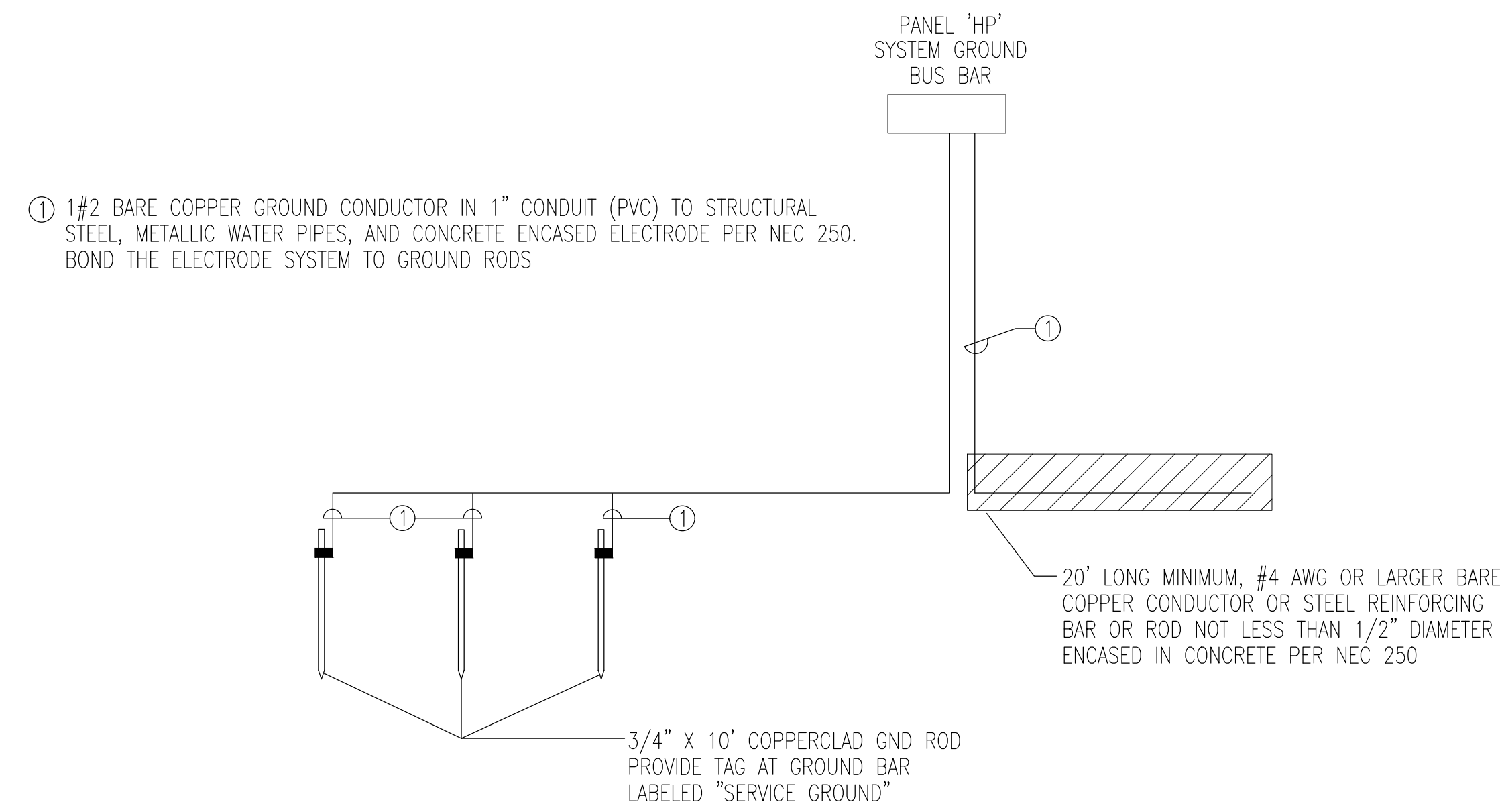
CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	REC-HANGAR003	1	20	0.72	0.79	20	LTS-WINDSOCK	2
3	REC-HANGAR003	1	20	0.72	0.63	20	LTS-EXTERIOR	4
5	REC-HANGAR003	1	20	0.9	1.58	20	LTS-HANGAR	6
7	WINDSOCK	1	20	1.0	1.05	20	LTS-HANGAR	8
9	SPARE	1	20	---	---	20	SPARE	10
11	SPARE	1	20	---	---	20	SPARE	12
13	SPARE	1	20	---	---	20	SPARE	14
15	SPARE	1	20	---	---	20	SPARE	16
17								18
19								20
21								22
23								24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42

120/240 VOLT 1Ø 3W
125 AMP MAIN BREAKER

SURFACE MOUNTED
NEMA 1 ENCLOSURE

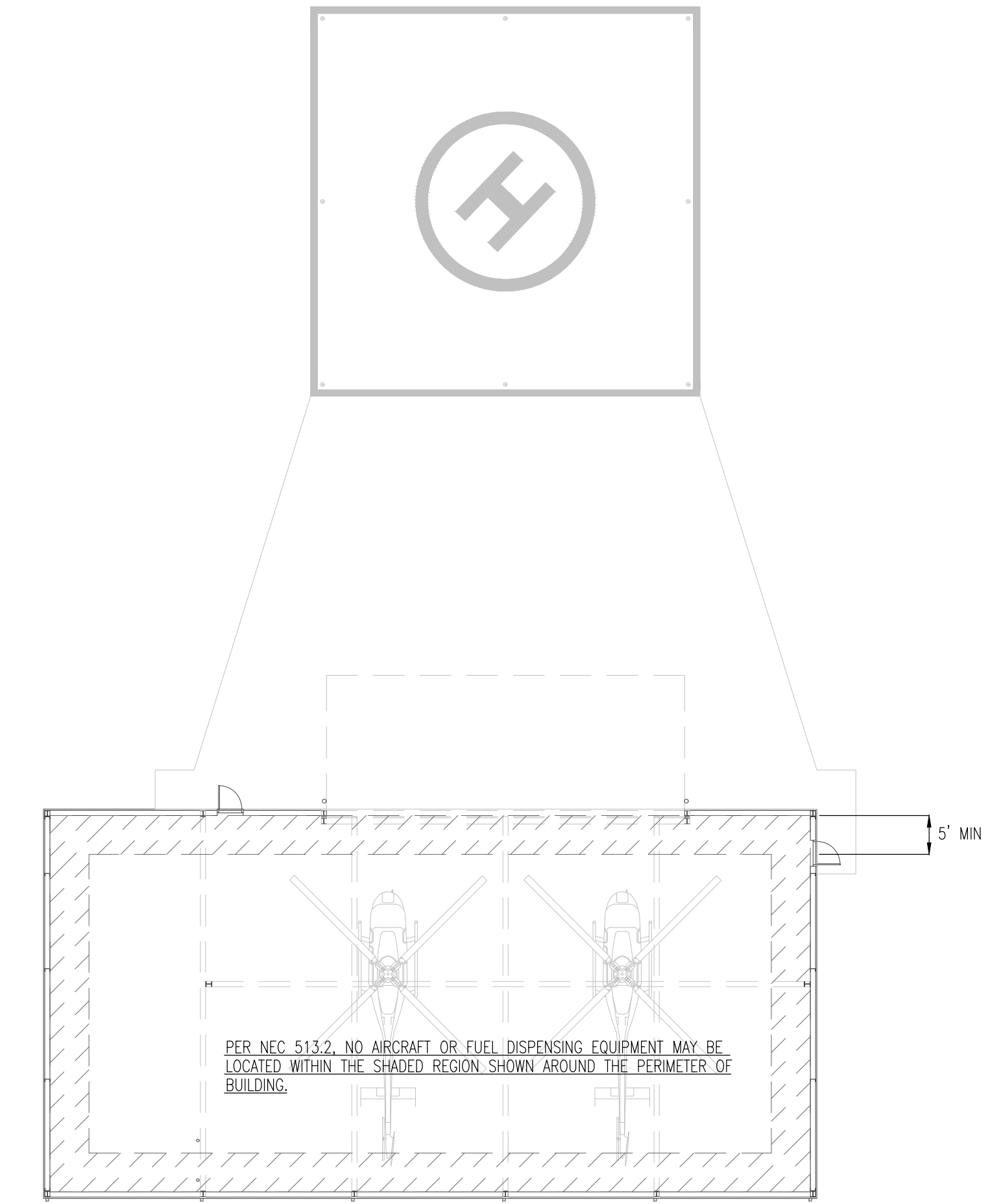
TOTAL CONNECTED LOAD: 44.4 KVA
 MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
 ② FURNISH GFCI BREAKER
 ③ FURNISH BREAKER W/ HANDLE 'LOCK-OFF'

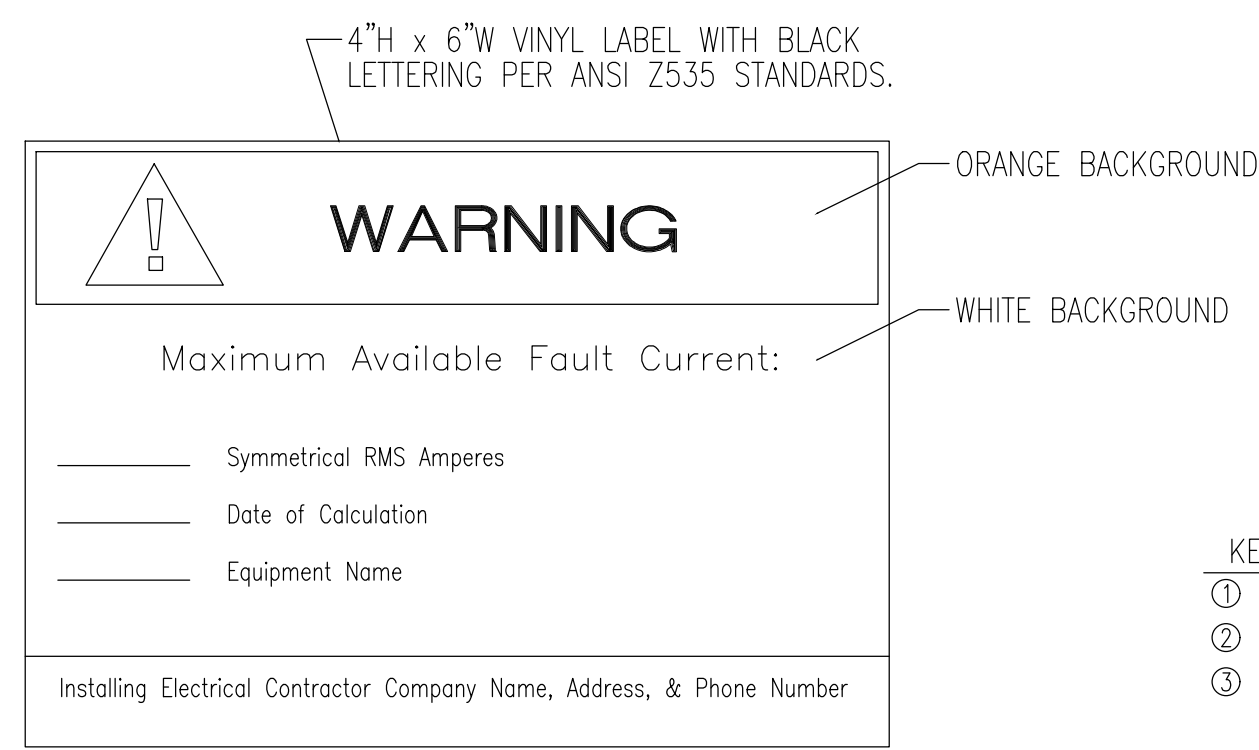


3 GROUNDING RISER DIAGRAM
E002 N.T.S.

-PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY. ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLINGS. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECIFIED COPPER CONDUCTOR.
 -PRIOR TO CONSTRUCTION, EC TO FIELD-COORDINATE WITH GC & TELE/DATA UTILITY THE REQUIRED CONDUITS & POINTS-OF-TERMINATION FOR TELE/DATA SERVICE. FOR BID, INCLUDE TWO (2) 2" C'S (W/ PULLSTRING) AS SHOWN ON ELECTRICAL SITE PLAN. ELECTRICAL SERVICE TO TELE/DATA HEAD-END EQUIPMENT.

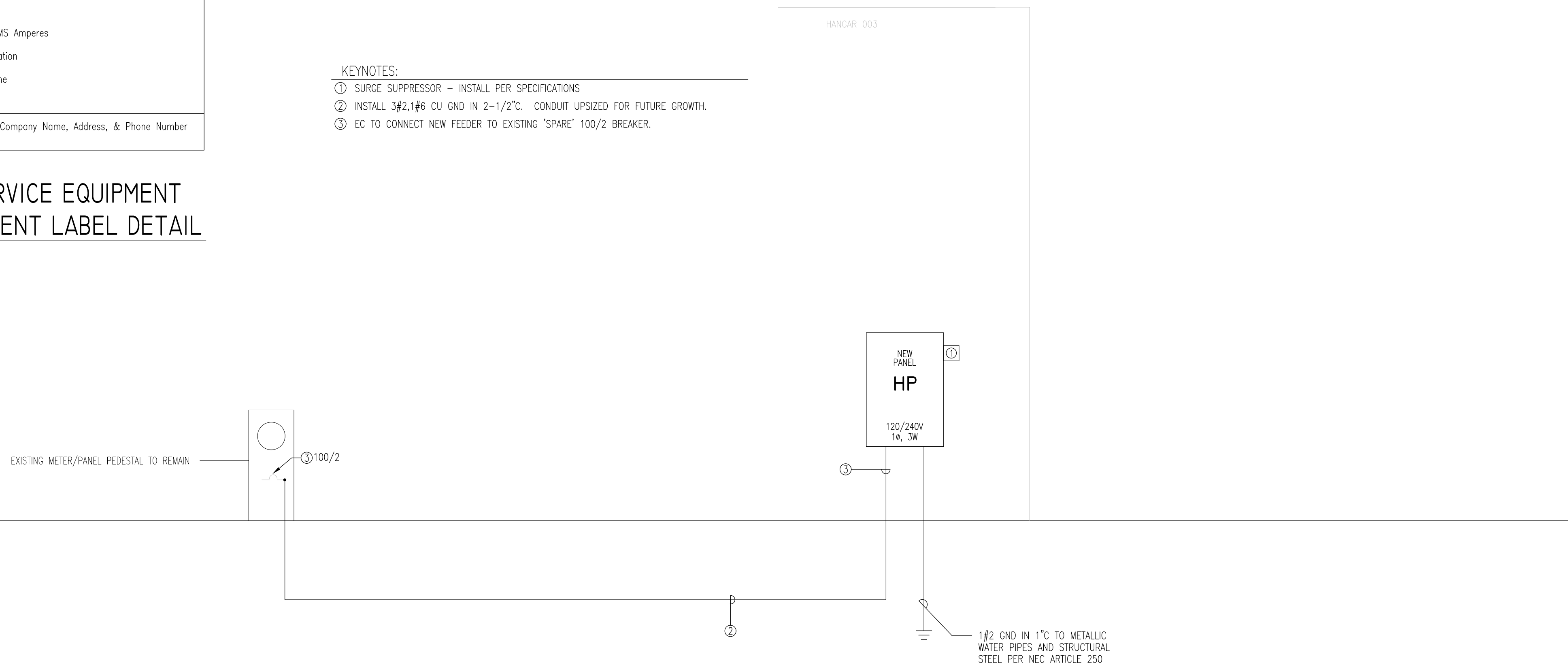


2 FUEL DISPENSING EQUIPMENT RESTRICTED AREA
E002 N.T.S.

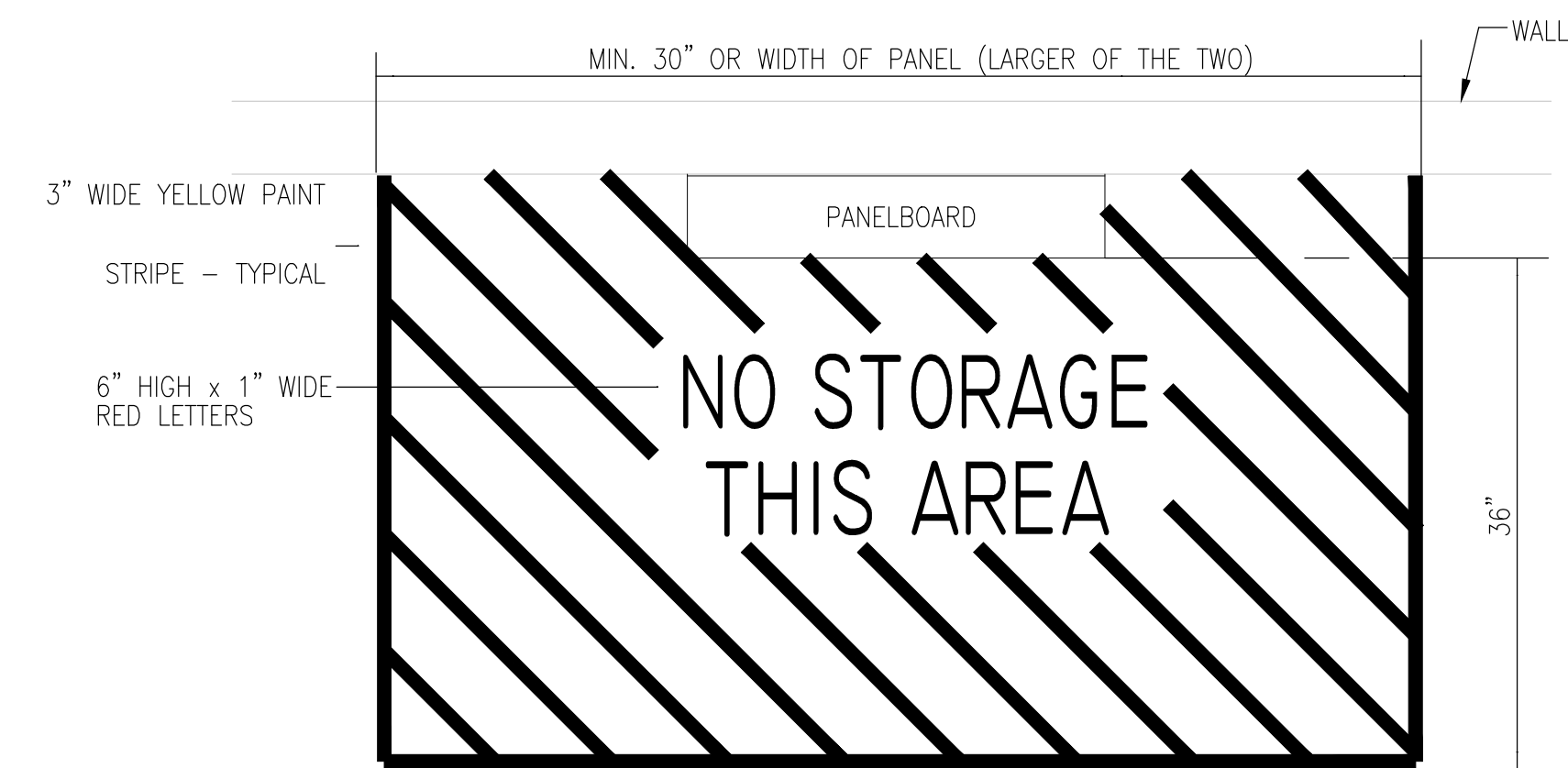


**TYPICAL SERVICE EQUIPMENT
FAULT CURRENT LABEL DETAIL**
NOT TO SCALE

KEYNOTES:
 ① SURGE SUPPRESSOR - INSTALL PER SPECIFICATIONS
 ② INSTALL 3/2.1#6 CU GND IN 2-1/2" C. CONDUIT UPSIZED FOR FUTURE GROWTH.
 ③ EC TO CONNECT NEW FEEDER TO EXISTING 'SPARE' 100/2 BREAKER.



1 ELECTRICAL POWER PLAN
E002 SCALE: 1/4" = 1'-0"



**TYPICAL CLEARANCE AT ELECTRICAL PANELS
(FLOOR MARKING OPTIONAL)**
NOT TO SCALE

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NEW HANGAR AND HELIPAD PROJECT FOR:
**BAY COUNTY SHERIFFS
OFFICE**

642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

ELECTRICAL POWER
RISER

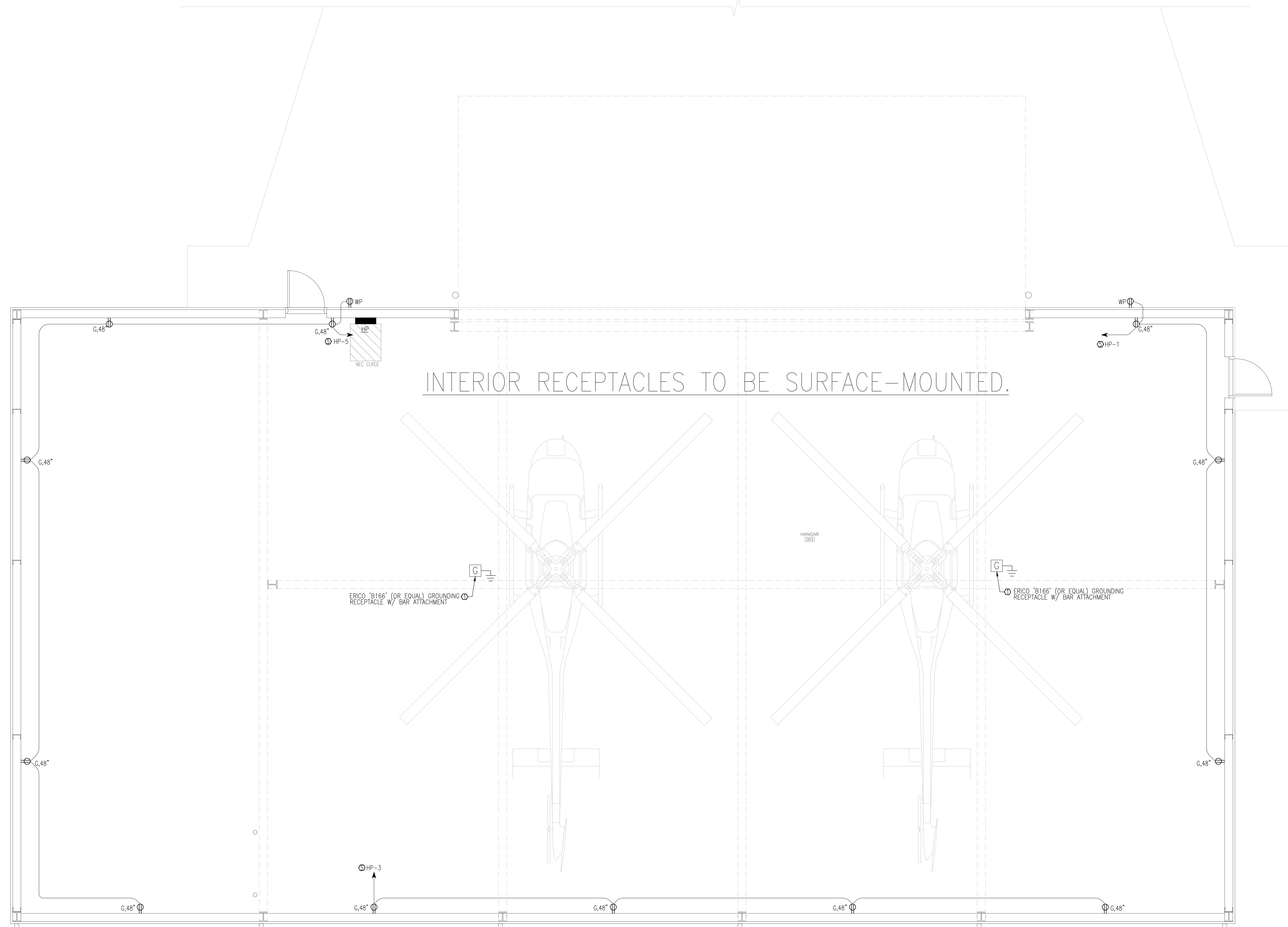
PROJECT NUMBER **23084**
DATED **01.31.2024**

**WATFORD
ENGINEERS**
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311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27625
Anthony Davis, P.E.
Florida License Number: 07419
850.552.3467
Project Number: 2023.118
Checked By: ALD
Drawn By: MRS

E002

NOTE(S) TO ELECTRICAL CONTRACTOR:
 -IN THIS AREA, ALL ELECTRICAL DEVICES (LIGHTING, RECEPTACLES, DISCONNECTS, JUNCTION BOXES, SWITCHES, ETC...) ARE TO BE INSTALLED AT BE INSTALLED AT A MINIMUM OF 48" A.F.F., COMPLIANCE WITH NEC 513, CLASS I, DIV II REQUIREMENTS TO BE FOLLOWED. ATTENTION SHOULD BE MADE TO AVOID INSTALLATION OF RECEPTACLES, DISCONNECTS, J-BOXES, SWITCHES, PANELS, LIGHTING, ETC... WITHIN THESE AREAS. OTHERWISE, DEVICES SUITABLE FOR CLASS I, DIV I/II ENVIRONMENTS (EXPLOSION-PROOF APPARATUS MUST BE INSTALLED.)
 -INSTALL LIGHTING FIXTURE, OUTLETS, PLATES, AND OTHER VISIBLE ITEMS PARALLEL TO BUILDING LINES. LINE UP EXPOSED RACEWAYS PARALLEL AND AT RIGHT ANGLES TO BUILDING WALLS, PARTITIONS, AND CEILING.
 -SURFACE-MOUNTED ELECTRICAL EQUIPMENT BOXES ARE TO BE INSTALLED ON GALVANIZED UNISTRUT STANDOFFS. ELECTRICAL EQUIPMENT BOXES SHALL INCLUDE, BUT NOT LIMITED TO ELECTRICAL CONTROL AND COMMUNICATION PANELS, CABINETS, JUNCTION/PULL/TERMINATION BOXES 24" OR LARGER, SPLITTERS, CONTACTORS AND DISCONNECT SWITCHES. BOXES ARE TO BE GROUPED ON COMMON BASE WHEREVER PRACTICAL. PROVIDE DISCONNECTS AT GROUND LEVEL FOR ALL POWERED EQUIPMENT INCLUDING FANS, HVAC, COMPRESSORS, AND DOOR OPENERS.



1 ELECTRICAL POWER PLAN
 E300 SCALE: 1/4" = 1'-0"

KEYNOTES	
⊙	EC TO FURNISH/INSTALL GROUNDING RECEPTACLE AS SHOWN. GROUNDING TO COMPLY WITH 2016 NFPA 409, SECTION 9.6.
⊚	CIRCUIT TO BE 2#10, 1#10GND IN 3/4" C.



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NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE

642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

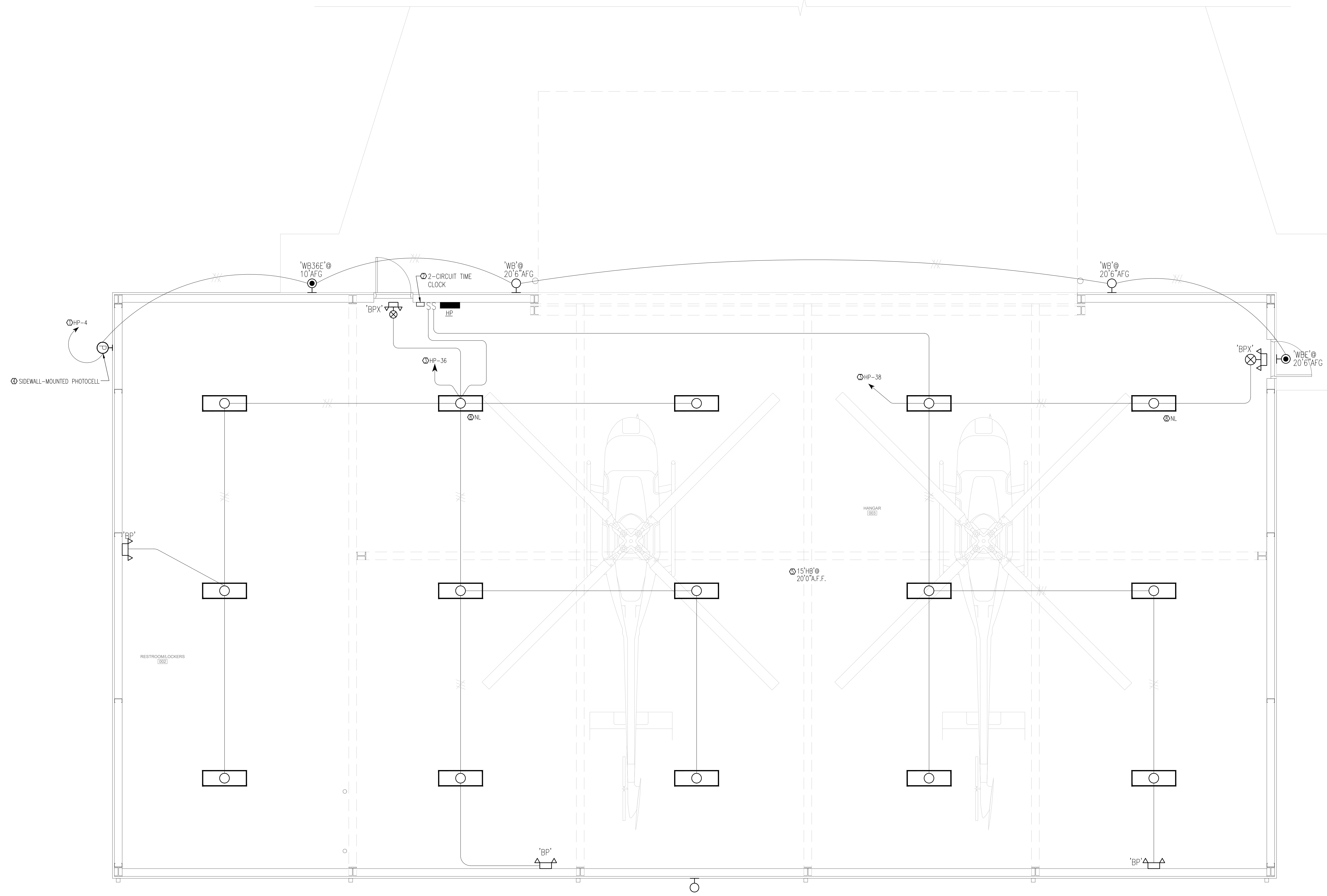
No.	Description	Date

ELECTRICAL POWER FLOOR PLAN

PROJECT NUMBER 23084
 DATED 01.31.2024



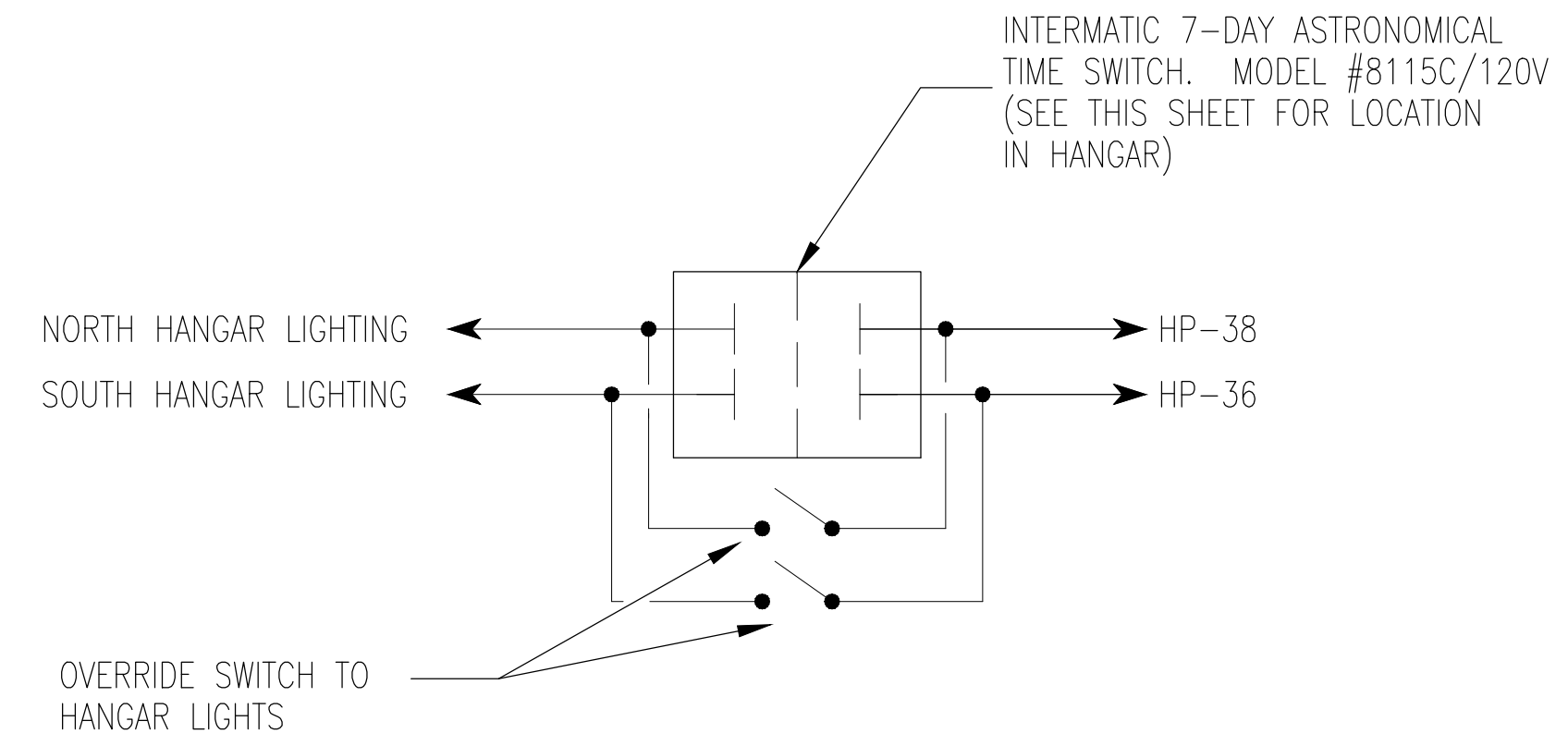
Florida CA Number: 27625
 Anthony Davis, P.E.
 Florida License Number: 07419
 850.501.3447
 Project Number: 2023-118
 Checked By: ALC
 Drawn By: JMS



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

- ① TO REDUCE VOLTAGE DROP AND COMPLY WITH NEC, CIRCUIT TO BE A MINIMUM OF #10CU, WHERE 3-WIRE SHOWN, INSTALL ADDITIONAL NON-SWITCHED 120V HOTLEG FOR CONTINUOUS CHARGING OF EMERGENCY BATTERIES FOR CODE-REQUIRED EMERGENCY EGRESS LIGHTING.
- ② EC TO FURNISH/INSTALL INTERMATIC #ETB215C (OR EQUAL) 2-CIRCUIT ASTRONOMICAL TIME CLOCK.
- ③ ROUTE CIRCUIT VIA 2-CIRCUIT TIME CLOCK ADJACENT TO OFFICE DOOR. TO REDUCE VOLTAGE DROP, CIRCUIT TO BE #10 CU.
- ④ SIDEWALL-MOUNTED PHOTOCELL TO BE MOUNTED/SHELD SO THAT IT OPERATES AT DESIRED TIME.
- ⑤ EC TO INCLUDE MATERIALS AND LABOR FOR REQUIRED UNISTRUT SYSTEM MOUNTED FROM STRUCTURE ABOVE TO ENABLE FIXTURES TO BE MOUNTED AS SHOWN UNDER DUCTWORK.



2 LIGHTING CONTACTOR-HANGAR
N.T.S.



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NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

ELECTRICAL LIGHTING PLAN

PROJECT NUMBER **23084**
DATED **01.31.2024**



EXISTING METER/PANEL CURRENTLY FEEDS HELIPAD LIGHTING, WINDSOCK, AND GFCI RECEPTACLE. HELIPAD LIGHTING TO REMAIN AS IS. WINDSOCK AND GFCI RECEPTACLE TO BE RE-FED FROM NEW PANEL "HP". IN ADDITION, NEW FEEDER TO BE INSTALLED FROM PEDESTAL TO NEW PANEL. SEE "POWER RISER DIAGRAM" FOR DETAILS.

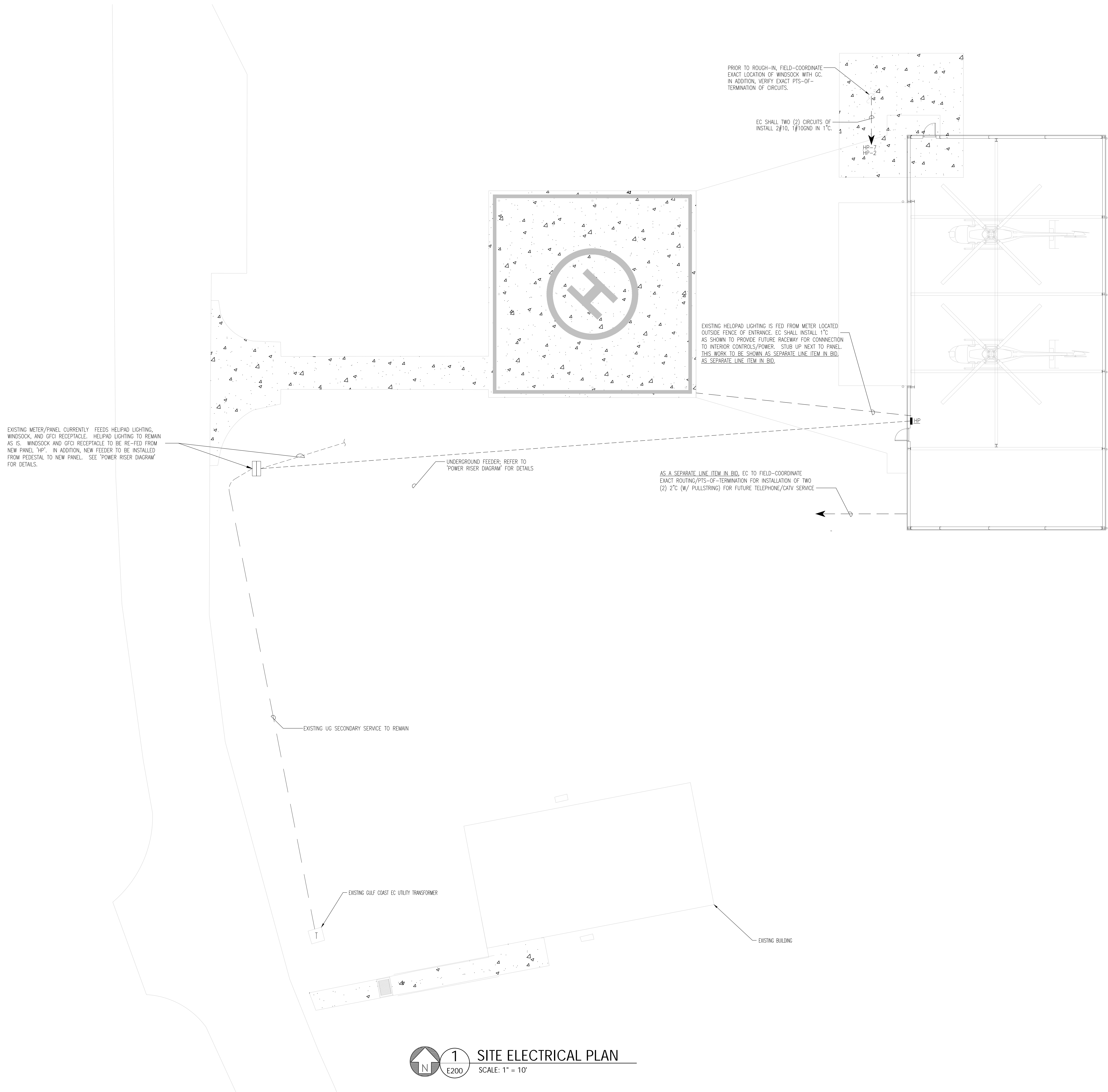
UNDERGROUND FEEDER; REFER TO "POWER RISER DIAGRAM" FOR DETAILS

AS A SEPARATE LINE ITEM IN BID, EC TO FIELD-COORDINATE EXACT ROUTING/PIS-OF-TERMINATION FOR INSTALLATION OF TWO (2) 2" (W/ PULLSTRING) FOR FUTURE TELEPHONE/CATV SERVICE

EXISTING HELIPAD LIGHTING IS FED FROM METER LOCATED OUTSIDE FENCE OF ENTRANCE. EC SHALL INSTALL 1" AS SHOWN TO PROVIDE FUTURE RACEWAY FOR CONNECTION TO INTERIOR CONTROLS/POWER. STUB UP NEXT TO PANEL. THIS WORK TO BE SHOWN AS SEPARATE LINE ITEM IN BID. AS SEPARATE LINE ITEM IN BID.

PRIOR TO ROUGH-IN, FIELD-COORDINATE EXACT LOCATION OF WINDSOCK WITH GC. IN ADDITION, VERIFY EXACT PIS-OF-TERMINATION OF CIRCUITS.

EC SHALL TWO (2) CIRCUITS OF INSTALL 2#10, 1#100ND IN 1".



1 SITE ELECTRICAL PLAN
SCALE: 1" = 10'



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Drawn By: JMS



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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

ELECTRICAL NEW WORK
SITE PLAN

PROJECT NUMBER: **23084**
DATED: **01.31.2024**

DIVISION 16 – ELECTRICAL

SECTION 16000 – ELECTRICAL WORK GENERAL PROVISIONS

PART 1 – GENERAL

- 1.01 DESCRIPTION OF WORK
 - A. Provide all labor, materials and equipment for a complete and operating electrical system.
 - B. Codes and Standards: All electrical work shall be in strict compliance with OSHA requirements, the 2017 National Electrical Code, the local county electrical code and Power Company standards. All materials shall be new and free from defects, and shall bear the Underwriters' label for its intended use.
 - C. Permits, Fees and Notices: Secure and pay for all required by the work of this Division. Provide final inspection certificate(s) as applicable.
 - D. Contractor shall thoroughly investigate site before bidding. No changes will be allowed in contract price for work required to comply with existing conditions.
 - E. Workmanship shall meet N.E.C.A. guidelines.
 - F. If, through errors or omissions, the intent of Architect/Engineer with regard to any detail is not clear, or is capable of more than one interpretation, such matters must be brought to the attention of the Architect/Engineer in writing before the submission of bids, and the Architect/Engineer shall make correction or explanation in writing. Otherwise, no extra charge will be allowed for the work or material which the Architect/Engineer will require, provided that it comes within a reasonable interpretation of the Drawings and Specifications.
 - G. The plans and specifications are intended as a general description of the work to be performed. All items not specifically mentioned or shown, but necessary for the completion of the installation, shall be furnished and installed by this Contractor. This Contractor shall thoroughly acquaint himself with the Mechanical, Architectural, Structural and Electrical plans before submitting his final bid. No additional compensation will be allowed due to the Contractor's failure to familiarize himself with the plans.

- 1.02 SUBMITTALS
 - Submit five (5) copies of technical information on all major equipment in binders. Mark-up prints of the design drawings with red pencil as items are installed, and submit two copies showing an accurate "As-Built" record of the entire system. Give the Owner instructions in operation of the system. Secure from the Owner a signed memo stating that technical information, as-built drawings and instructions in operation have been received. Submit memo to the Architect.

PART 2 – PRODUCTS

- 2.01 CONDUIT
 - A. All wires shall be concealed in conduit, (1/2" min.) including grounding wires. When conduit is located below slab on grade or underground, it shall be PVC Schedule 40 (3/4" min.). Provide all empty conduits with pullwires. EMT and ENT may be used where permitted by code. Conduits shall be sized per N.E.C.

- 2.02 CONDUCTORS
 - A. All conductors shall be copper (#12 min), THHN/THWN insulation. Comply with the N.E.C. Articles 300 and 310. All conductors shall be new, free from kinks and other defects when installed. Where local authorities permit, aluminum conductors may be used for service entrance and panel feeders as indicated on riser diagrams. The use of Romex is allowed only with with the local AHJ and owner approval. It is highly recommended written approval be obtained.
- 2.03 SUPPORTS
 - A. Provide all supports for material and equipment.
- 2.04 COVER PLATES
 - A. All plates shall be white plastic.
- 2.05 RECEPTACLES
 - A. Provide standard grade 20 amp, 2 pole, 3 wire, with back and side wiring capability and suitable for split circuit operation.
 - B. Ground Fault Interrupter: Provide "specification grade" duplex receptacles, ground fault circuit interrupters (GFI), feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL rated Class A, 20 amperes rating, 120 volts, with solid state ground fault sensing and signaling, 5 milliampers ground fault trip level; and equip with local test/reset buttons.
- 2.06 SWITCHES
 - A. Provide silent type standard grade 20 amp, 120V for all single pole, double pole, three-way and four-way switches.
- 2.07 LIGHTING FIXTURES
 - A. Fixture schedule shows required type of fixture only. Determine modifications required to make fixtures suitable for ceilings as installed, and furnish fixtures adapted to the ceiling used. Fixtures shall be U.L. approved. This contractor shall protect the fixtures and lamps and shall replace broken parts. All lenses and louvers in any area shall be cleaned after all trades have completed their work in that area. Provide new lamps for all lighting fixtures.
- 2.08 DISCONNECT SWITCHES
 - A. Shall be general duty safety switches with 100,000A short circuit rating, and shall be listed in accordance with U.L. 98. The cover shall be interlocked so that the door cannot be opened with the handle in the "on" position, except by the intentional operation of a concealed release (defeater) mechanism.

- PART 3 – EXECUTION
- 3.01 APPARATUS IDENTIFICATION
 - A. Panelboard, circuit breakers in panelboards, motor disconnect switches, starters and other apparatus used for the operation or control of, circuits, appliances or equipment shall be properly identified by means of engraved laminated plastic descriptive nameplates mounted on the apparatus using contact cement. Cardholders in any form are acceptable for living units.
- 3.02 GROUNDING
 - A. A separate grounding conductor, sized in accordance with NEC Table 250-95 shall be provided in the conduit with the circuit conductors for all lighting, power and feeder circuits.
 - B. All electrical equipment enclosures and conductor enclosures shall be grounded.
- 3.03 INSTALLATION:
 - A. The Contractor shall adapt his work to job conditions and make such changes as required and permitted by the Architect, such as moving his work to clear beams, joists, and adjusting his risers or other apparatus to avoid interferences with windows and openings: or raising or lowering his work to permit the passing of ductwork or the work of other trade: all as required or as job conditions dictate, without any additional costs to the Owner.
 - B. Examine areas and conditions under which work is to be performed and products are to be installed and notify General Contractor in writing of conditions detrimental to proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.
 - C. Do not allow or cause any of the work of this division or cause other divisions of work to be covered up or enclosed until it has been inspected, tested and approved by the Architect and by all other authorities having jurisdiction.
 - D. All switchboards, panelboards, transformers, switches, outlets, coverplates, signs, lighting fixtures, and any and all other electrical equipment provided shall be thoroughly cleaned of all dirt, oil, concrete, etc. Any dents, scratches or other visible blemishes shall be corrected and the appearance and corrosion resistance of the equipment made "like new", to the satisfaction for the Architect/Engineer.
 - E. Perform all adjustments necessary to ensure proper system operation in accordance with manufacturer written instructions.



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NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
 642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

No.	Description	Date

ELECTRICAL SPECIFICATIONS

PROJECT NUMBER 23084
 DATED 01.31.2024

WATFORD ENGINEERING
 Florida CA Number: 27825
 Anthony Davis, P.E.
 Florida License Number: 07419
 850.501.3467
 Project Number: 2023-118
 Checked By: ALD
 Drawn By: JMS
 4432 Clinton Street Maitland, Florida 32751
 311 N. College St. Office 1018 Auburn, AL 36830

LEGEND

	EQUIPMENT TAG		AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	DETAIL TAG (*1* INDICATES IDENTIFICATION NUMBER, *M3* INDICATES THE SHEET NUMBER DRAWN ON)		AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE		TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE		TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE		SUPPLY AIR
	RECTANGULAR DUCT SIZE (*A* INDICATES SIDE SHOWN, *B* INDICATES SIDE NOT SHOWN)		RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT		EXHAUST AIR
	ROUND DUCT SIZE		MIXED AIR
	EXTERNALLY INSULATED DUCTWORK OR DUCT BOARD		OUTDOOR AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK		TRANSFER AIR
	DUCT ELBOW WITH TURNING VANES		EXHAUST FAN
	RADIUSED DUCT ELBOW		CEILING DIFFUSER
	FLEXIBLE DUCT CONNECTION		RETURN GRILLE
	MANUAL VOLUME BALANCING DAMPER		EXHAUST GRILLE
	MOTORIZED DAMPER		EXHAUST REGISTER
	FIRE DAMPER WITH ACCESS DOORS		CEILING ROOF EXHAUST FAN
	SMOKE DAMPER WITH ACCESS DOORS		INDOOR AIR HANDLING UNIT
	BACKDRAFT DAMPER		INLINE BOOSTER FAN
	TEE WITH TURNING VANES		THERMOSTAT, *1* INDICATES UNIT CONTROLLED
	TRANSITION		DUCT MOUNTED SMOKE DETECTOR
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE		FLOOR DRAIN
	BRANCH DUCT TAKEOFF WITH MVD		UNDERCUT DOOR 1/2"
			DOOR GRILLE, REFER TO DOOR SCHEDULE
			ABOVE FINISHED FLOOR
			HORIZONTAL FIRE DAMPER
			TRANSFER AIR
			EXTERNAL STATIC PRESSURE
			TESTING, ADJUSTING AND BALANCING
			NOMINAL
			VARIABLE FREQUENCY DRIVE
			FUTURE
			ELECTRIC UNIT HEATER
			HEAT PUMP
			DUCTLESS SPLIT HEAT PUMP
			DUCTLESS SPLIT CEILING CASSETTE

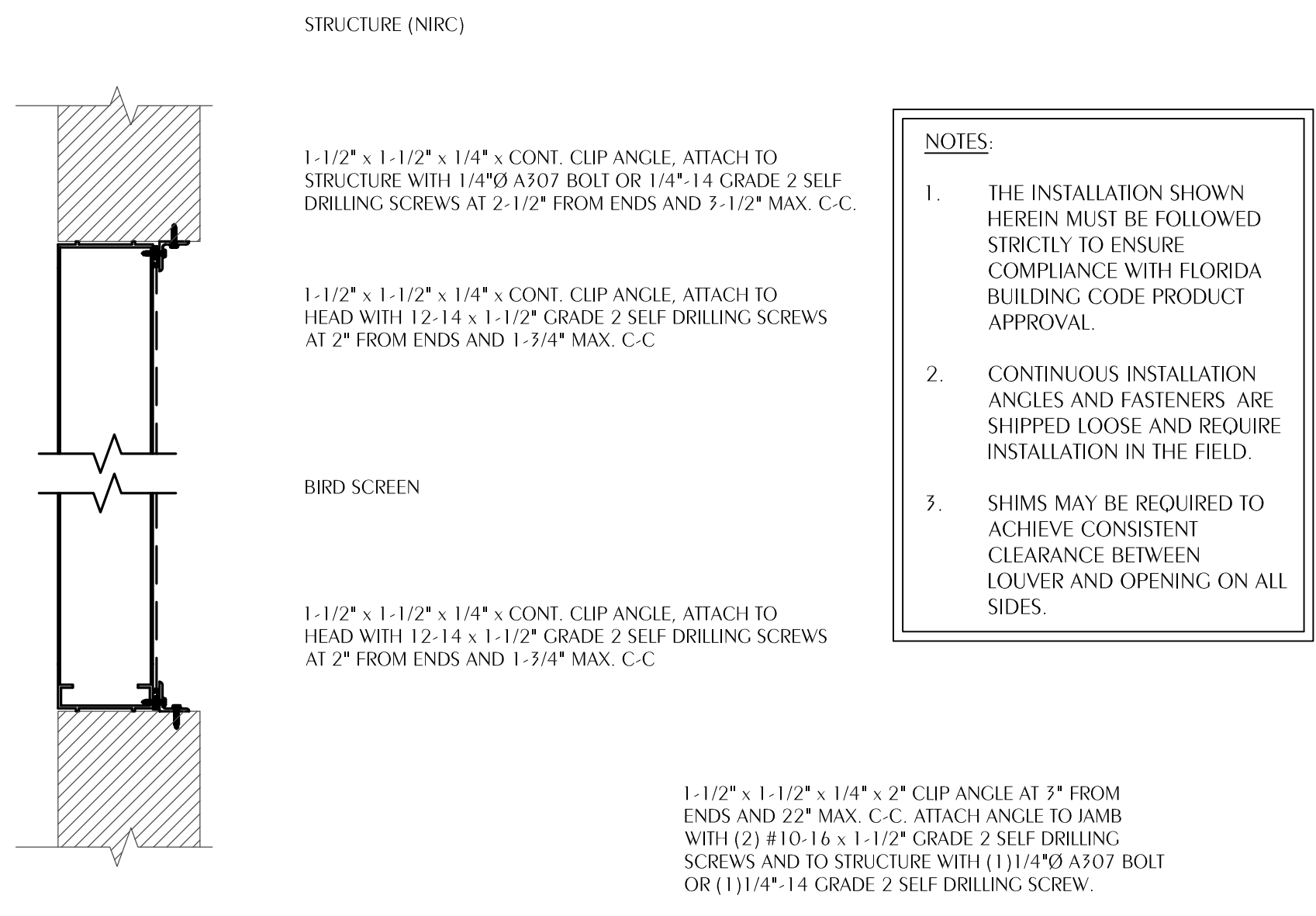
GENERAL NOTES

- ALL DUCT DIMENSIONS ARE NET INSIDE.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING. COORDINATE ALL SIZES AND LOCATIONS WITH ARCHITECT DURING SUBMITTALS. PROVIDE PLANS IF REQUIRED BY ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
- CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION, PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
- ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE (8TH EDITION)

LOUVER SCHEDULE

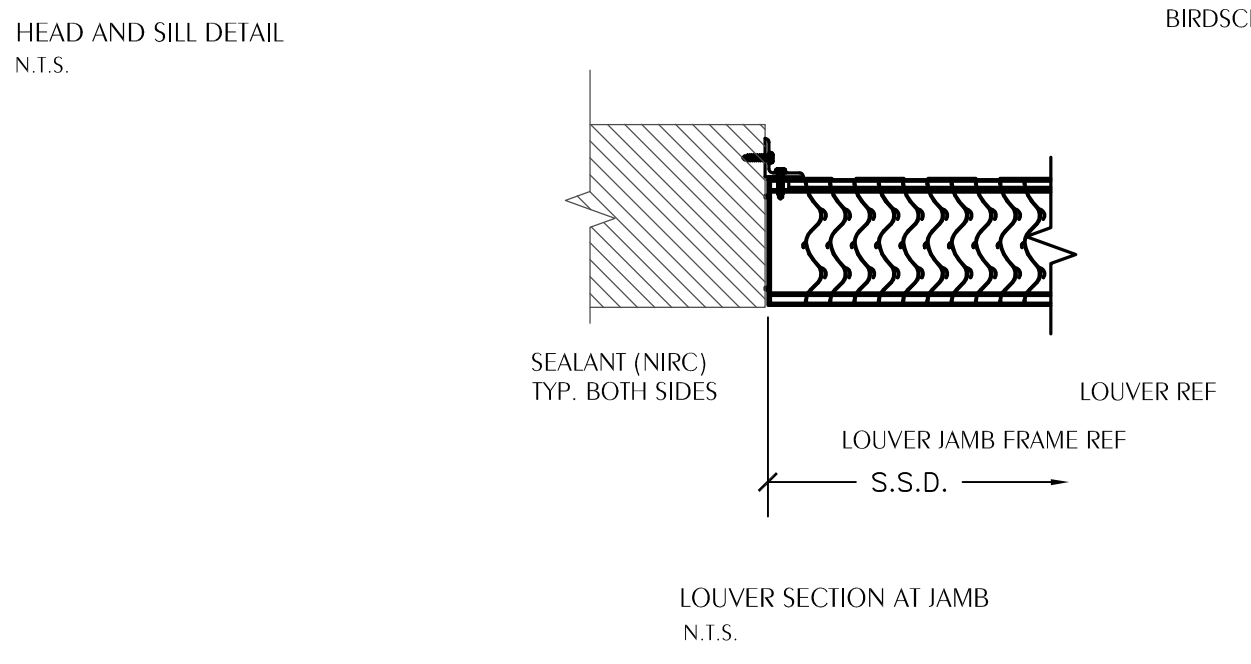
MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT² (MIN)	PRESSURE DROP IN. WG. (MAX)
LVR-4 CFM	3800	36x36	4.51	0.10

- PROVIDE RUSKIN EME3625MD (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN RESISTANT, STATIONARY LOUVER WITH BIRDSCREEN AND FLORIDA PRODUCT APPROVAL.
- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.



NOTES:

- THE INSTALLATION SHOWN HEREIN MUST BE FOLLOWED STRICTLY TO ENSURE COMPLIANCE WITH FLORIDA BUILDING CODE PRODUCT APPROVAL.
- CONTINUOUS INSTALLATION ANGLES AND FASTENERS ARE SHIPPED LOOSE AND REQUIRE INSTALLATION IN THE FIELD.
- SHIMS MAY BE REQUIRED TO ACHIEVE CONSISTENT CLEARANCE BETWEEN LOUVER AND OPENING ON ALL SIDES.



1 WALL LOUVER DETAIL

SCALE: NONE RUSKIN EME3625MD OR EQUAL
MIAMI-DADE NOA NO. 23-1116.02

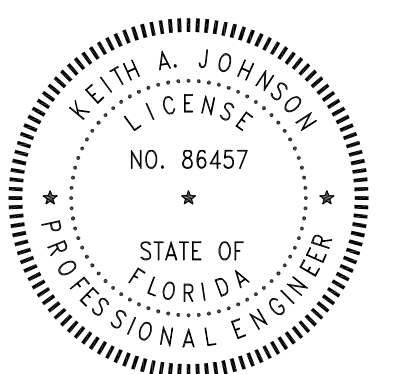


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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
BAY COUNTY SHERIFFS OFFICE
642 HIGHWAY 2300, SOUTHPORT, FL 32409



WATFORD ENGINEERS
4452 Orion Street, Maitland, Florida 32751
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27625
Keith A. Johnson, P.E.
Florida License Number: 86457
850.387.1871
Project Number: 2023-118
Checked By: KAJ
Drawn By: JFG

HVAC LEGEND, SCHEDULES, NOTES AND DETAIL

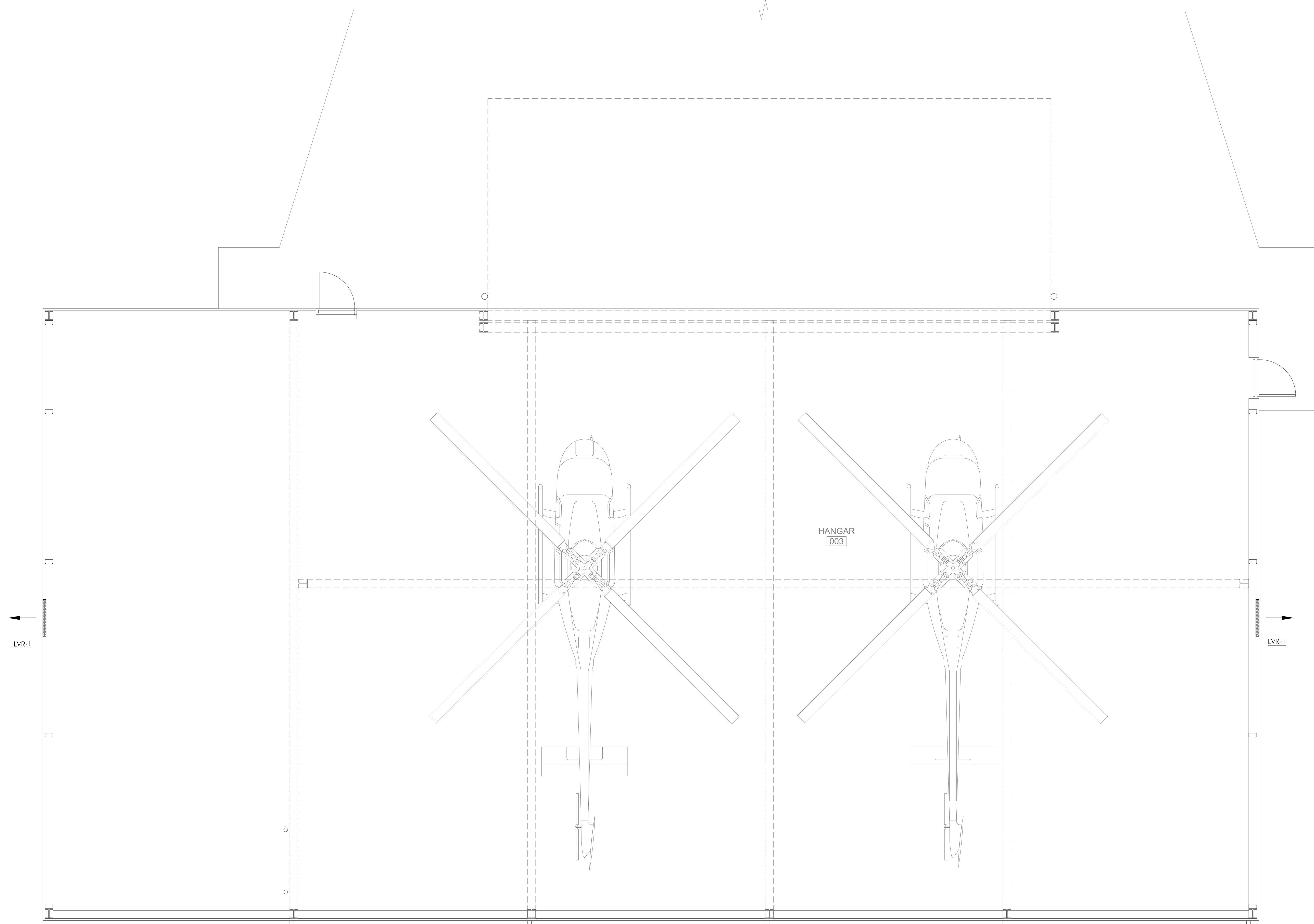
PROJECT NUMBER **23084**
DATED **01.31.2024**

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23000 Permit Set January 31st, 2024

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24-37 Bay County Sheriff's Office Helicopter Facility



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

WATFORD
ENGINEERS
4452 Orion Street, Mobile, Florida 33646
311 N. College St., Office 1018 Auburn, AL 36830

Florida CA Number: 27625
Nathan A. Johnson, P.E.
Florida License Number: 84437
905.226.3467
Project Number: 2023-118
Checked By: KAJ
Drawn By: JFG



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CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
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642 HIGHWAY 2300, SOUTHPORT, FL 32409

REVISIONS:

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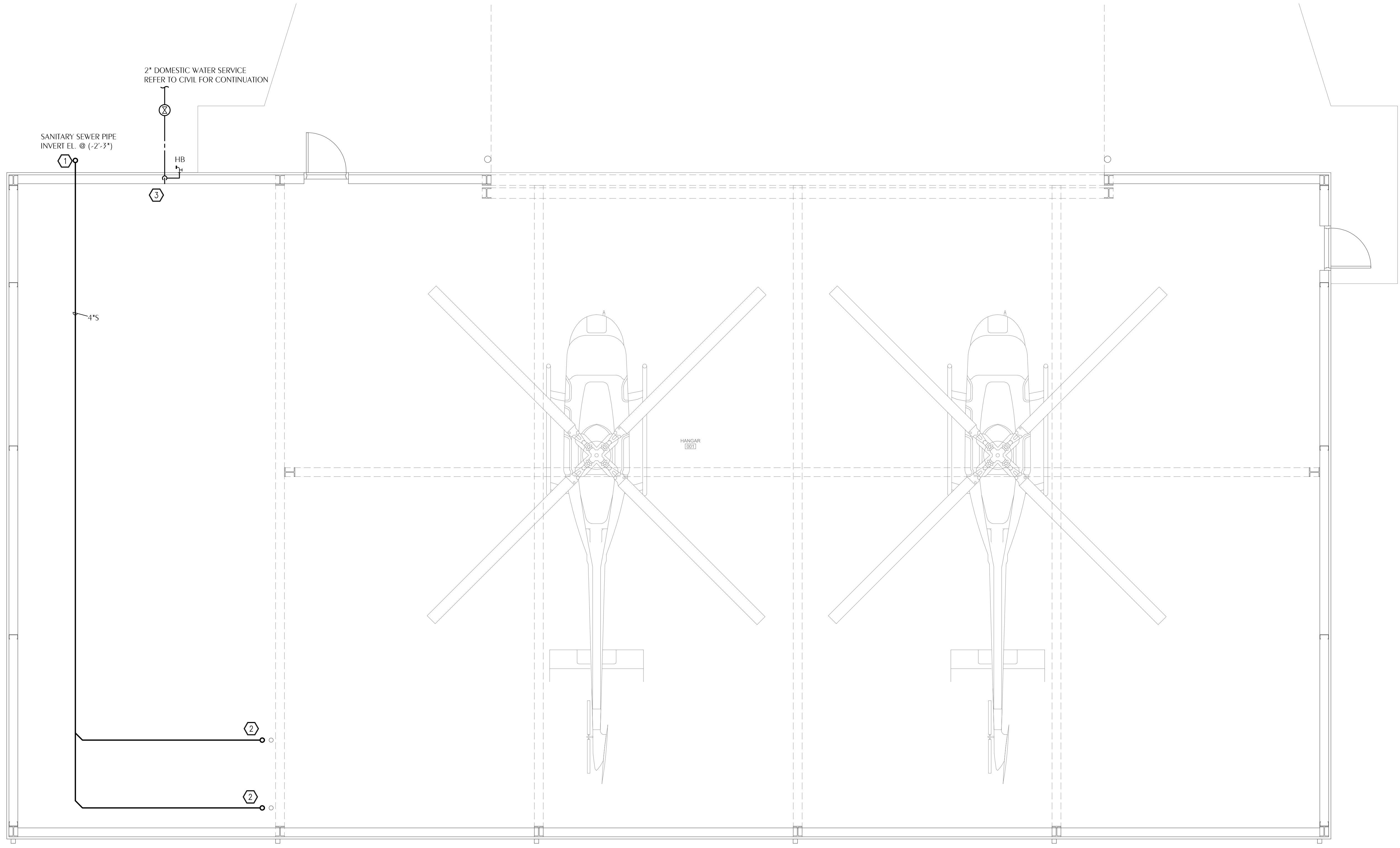
HVAC FLOOR PLAN

PROJECT NUMBER **23084**
DATED **01.31.2024**

M100
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SHEET NOTES

- ① TURN UP AND CAP FOR FUTURE.
- ② PROVIDE BLOCKOUT IN CONCRETE. STUB UP AND CAP FOR FUTURE WALL MOUNTED WATER CLOSET.
- ③ PROVIDE TEE FOR FUTURE CONNECTION AND CAP.



PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"
P100

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

WATFORD ENGINEERS
4632 Orion Street Mobile, Florida 36688
311 N. College St. Office 1018 Auburn, AL 36830

Florida CA Number: 27625
Kathie A. Johnson, P.E.
Florida License Number: 89457
850.533.3447
Project Number: 2023-118
Checked by: KAJ
Drawn by: JDD

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NEW HANGAR AND HELIPAD PROJECT FOR:
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PLUMBING FLOOR PLAN

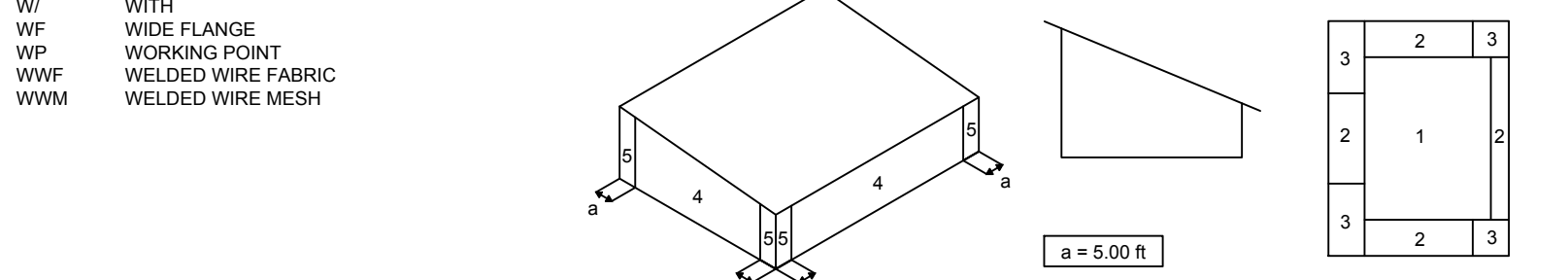
PROJECT NUMBER: **23084**
DATED: **01.31.2024**

STRUCTURAL GENERAL NOTES

ABBREVIATIONS table listing various construction terms and their corresponding abbreviations, such as AB ANCHOR BOLT, ADL ADDITIONAL, etc.

1. GENERAL NOTES: 1.1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

COMPONENTS AND CLADDING (PER ASD) table with columns for ROOF (LOADING IN PSF) and WALLS (LOADING IN PSF), and rows for tributary area, wind speed, and various load components.

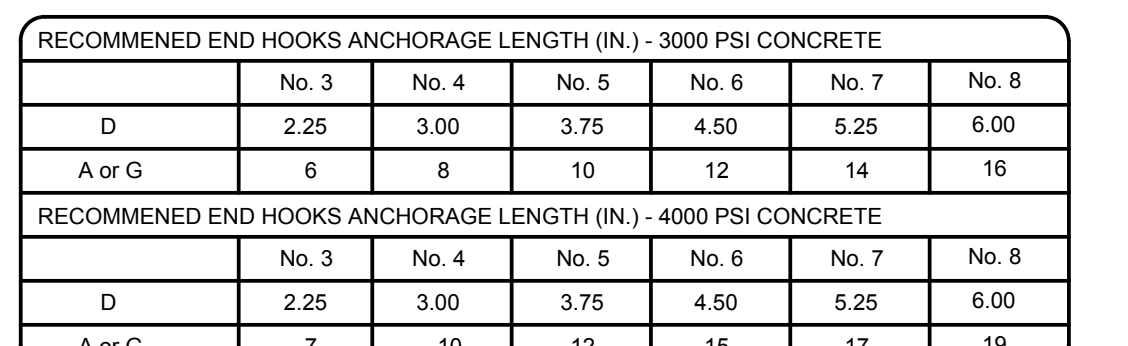


- 2.4. FLOOR DESIGN DATA: FLOOR ZONE DATA: FLOOR ZONE DATA: BE = NA PANEL NO = 12131C08B8G. 2.5. ROOF RAIN LOAD DESIGN DATA: RAIN LOAD = 6 PSF RAIN INTENSITY (i) = 4.5 INHR.

- 2.6. REINFORCING STEEL: 5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BEARING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

Table showing MINIMUM LAP SPICE LENGTH (IN.) - 3000 PSI CONCRETE for various bar sizes and conditions, including footings, beams, and slabs.

Table showing RECOMMENDED END HOOKS ANCHORAGE LENGTH (IN.) - 3000 PSI CONCRETE for various bar sizes and conditions.



- 5.2.1. CONCRETE CAST AGAINST EARTH: 3" 5.2.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: 2" 5.2.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1 1/2" (STIRRUPS & TIES).

- 7.1. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF WOOD CONSTRUCTION (AIWC) MINIMUM ALLOWABLE BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS).

11. MECHANICAL ANCHORS: 11.1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD, OR HILTI HUS-H OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).

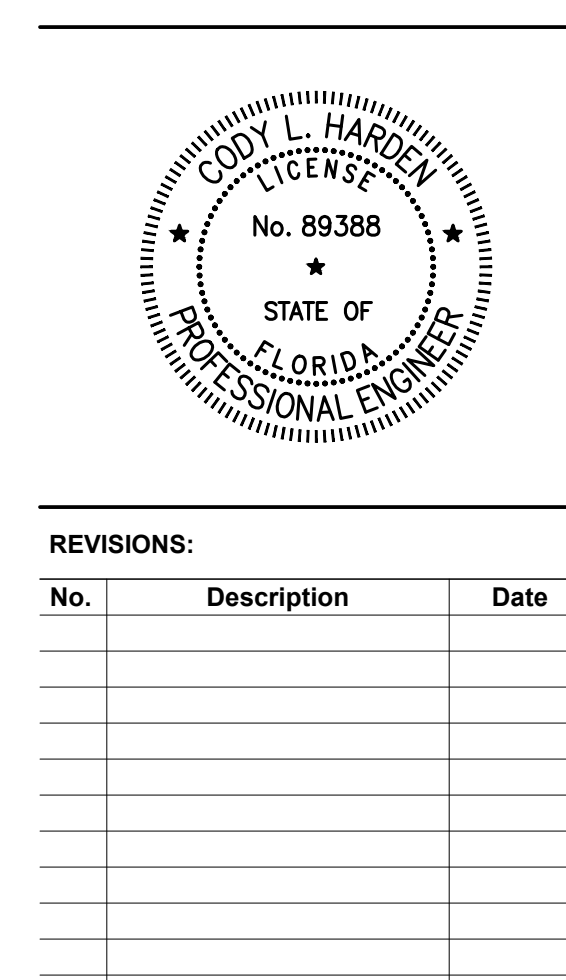
12. STRUCTURAL STEEL: 12.1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSII/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

REVISIONS table with columns for No., Description, and Date. Includes a signature block for COO L. HARDEN, P.E., No. 89388, and a stamp for BAY COUNTY SHERIFFS OFFICE. Also includes the ATLAS ENGINEERING AND CONSULTING logo and contact information.



PERMIT SET CONSTRUCTION DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR: BAY COUNTY SHERIFFS OFFICE 642 HIGHWAY 2300, SOUTHPORT, FL 32409



NOTES PROJECT NUMBER 23084 DATED 01.31.2024

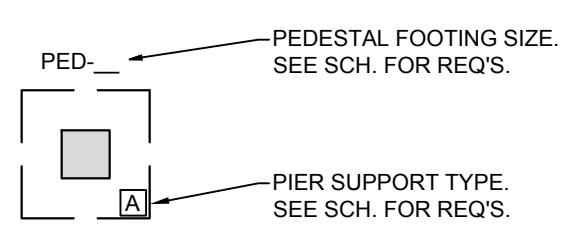
23000 Permit Set January 31, 2024

PLAN LEGEND

- DENOTES CIP PIER SUPPORT. SEE SCH FOR REQ'S (TYP)
- DENOTES THICKENED SLAB @ WALL BEARING & SLAB STEP DOWN LOCATIONS.
- DENOTES FOOTER OUTLINE BELOW.
- DENOTES SLAB TURNDOWN OUTLINE.

NOTE: PRELIMINARY DESIGN ONLY. SUBJECT TO CHANGE UPON RELEASE OF FINAL BUILDING REACTIONS.

TYP. C.I.P. PIER & FOOTING CALLOUT



PEDESTAL FOOTING SCHEDULE

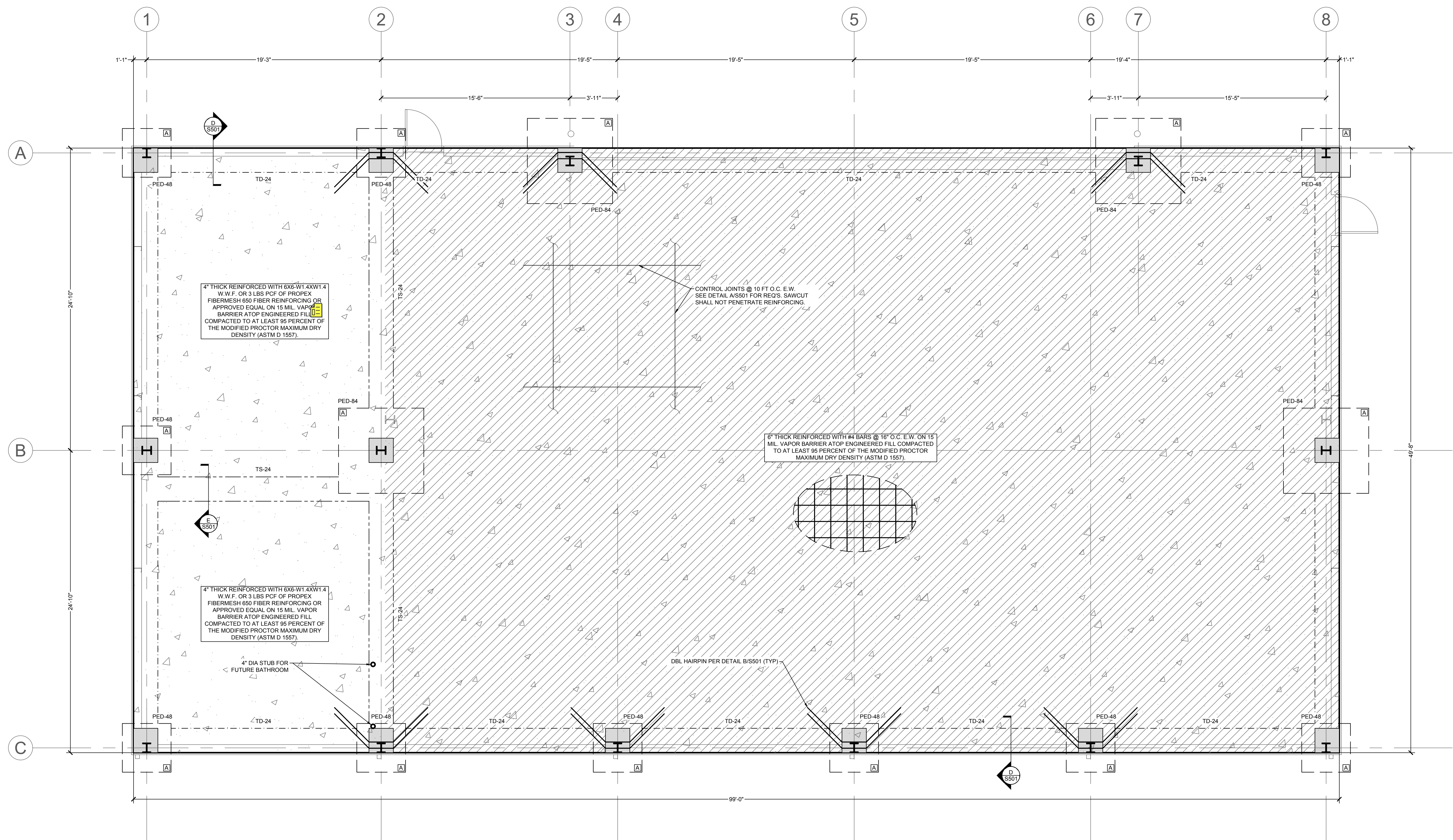
DESIGNATION	TYPE	DIMENSIONS	LONGITUDINAL REINF. (T&B)	TRANSVERSE REINF. (T&B)
PED-48	PEDESTAL FTG.	18" D x 48" SQR	(6) #5 BARS EQ. SPACED	(6) #5 BARS EQ. SPACED
PED-84	PEDESTAL FTG.	18" D x 84" SQR	(9) #5 BARS EQ. SPACED	(9) #5 BARS EQ. SPACED

CONTINUOUS FOOTING SCHEDULE

DESIGNATION	TYPE	DIMENSIONS	CONTINUOUS REINF.	TRANSVERSE REINF.
TD-24	TURN DOWN	16" D x 24" W	(3) #5 BARS	#5 BARS x 1'-6" @ 18" O.C.
TS-24	THICKENED SLAB	12" D x 24" W	(3) #5 BARS	#5 BARS x 1'-6" @ 18" O.C.

FOOTING NOTES

1. TOPS OF ALL FOOTINGS (EXCEPT TURNDOWNS) MUST BE COVERED WITH A MINIMUM OF 12" OF FINISH GRADE MATERIAL (U.N.O.).
2. BOTTOMS OF ALL FOOTINGS MUST BEAR AT OP UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR A MINIMUM OF 12" BELOW EXISTING GRADE UNLESS PROPER PROVISIONS HAVE BEEN MADE FOR THE USE OF ENGINEERED FILL BASED ON A SITE SPECIFIC GEOTECHNICAL EVALUATION (BY OTHERS).
3. ALL CONTINUOUS FOOTINGS & PEDESTALS MUST BE CENTERED ON THE WALLPIER UNLESS SPECIFICALLY NOTED AS ECCENTRIC FOOTING.
4. VERTICAL DOWEL HOOKS SHOULD EXTEND 9" IN TO FTGS. BELOW & RUNNING PERPENDICULAR TO FL EXTRAL REINF.
5. NO "WET STICK" SETTING OF REINFORCING WILL BE APPROVED.
6. ALL VERTICAL REINFORCING MUST BE IN PLACE & TIED TO FOOTING REINF. PRIOR TO POUR.
7. COORDINATE ALL FOOTING LOCATIONS WITH CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE PIPE SLEEVES BELOW OR ABOVE CONTINUOUS WALL FOOTINGS.
8. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN. IF A CONFLICT EXISTS, THE ARCH. DIMENSIONS SHALL GOVERN. BOTH ENGINEER AND ARCHITECT OF RECORD SHALL BE NOTIFIED IN WRITING OF ALL CONFLICTS.

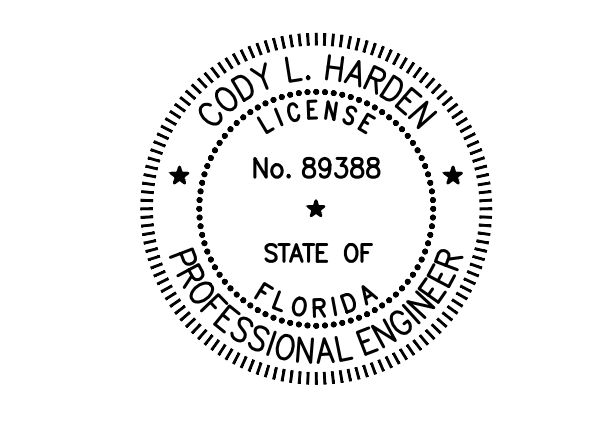


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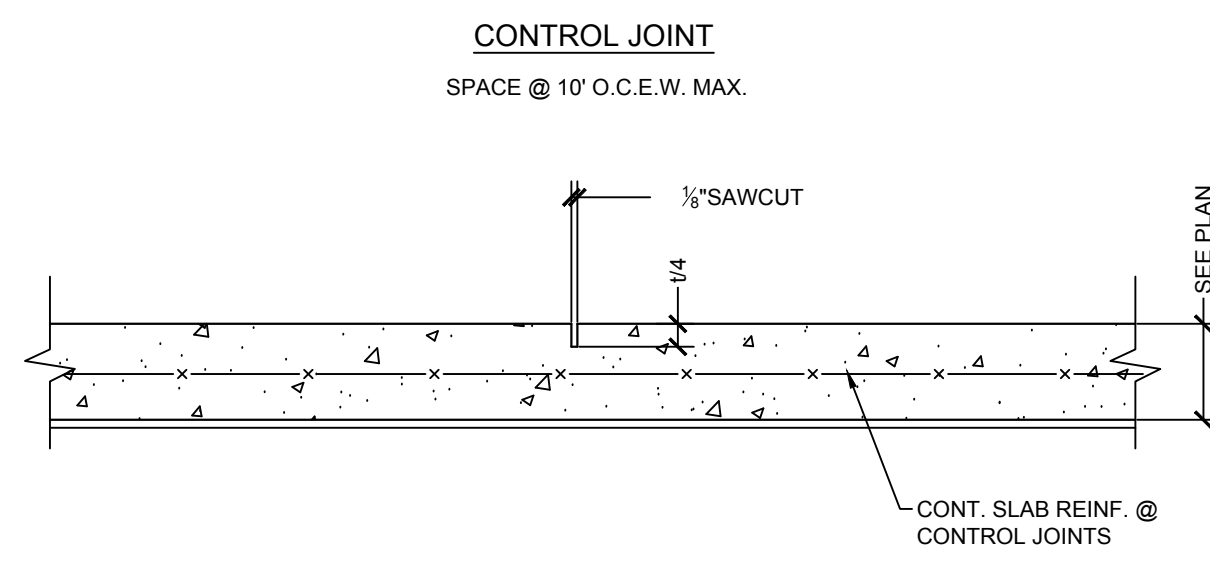
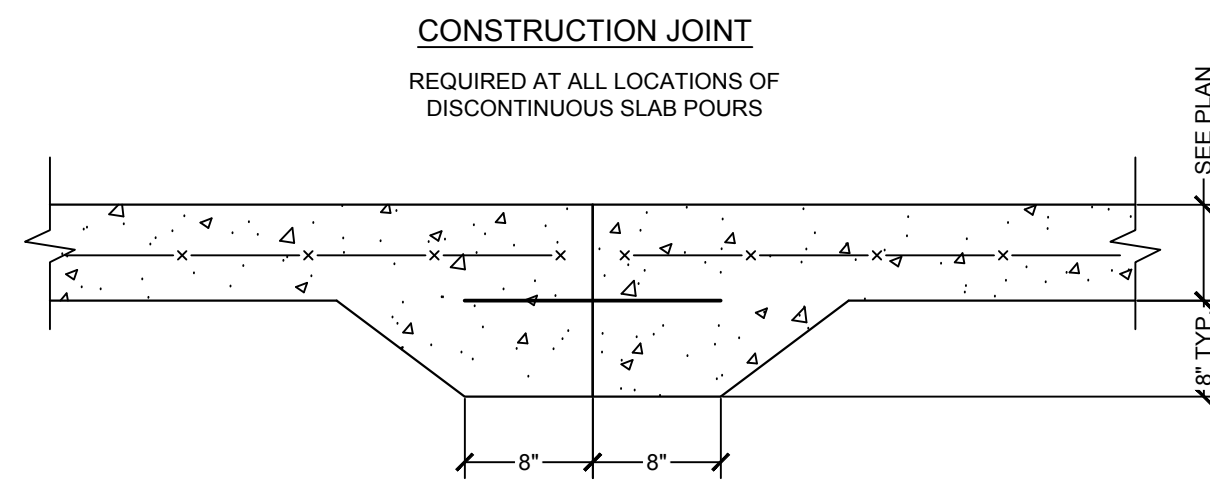
REVISIONS:

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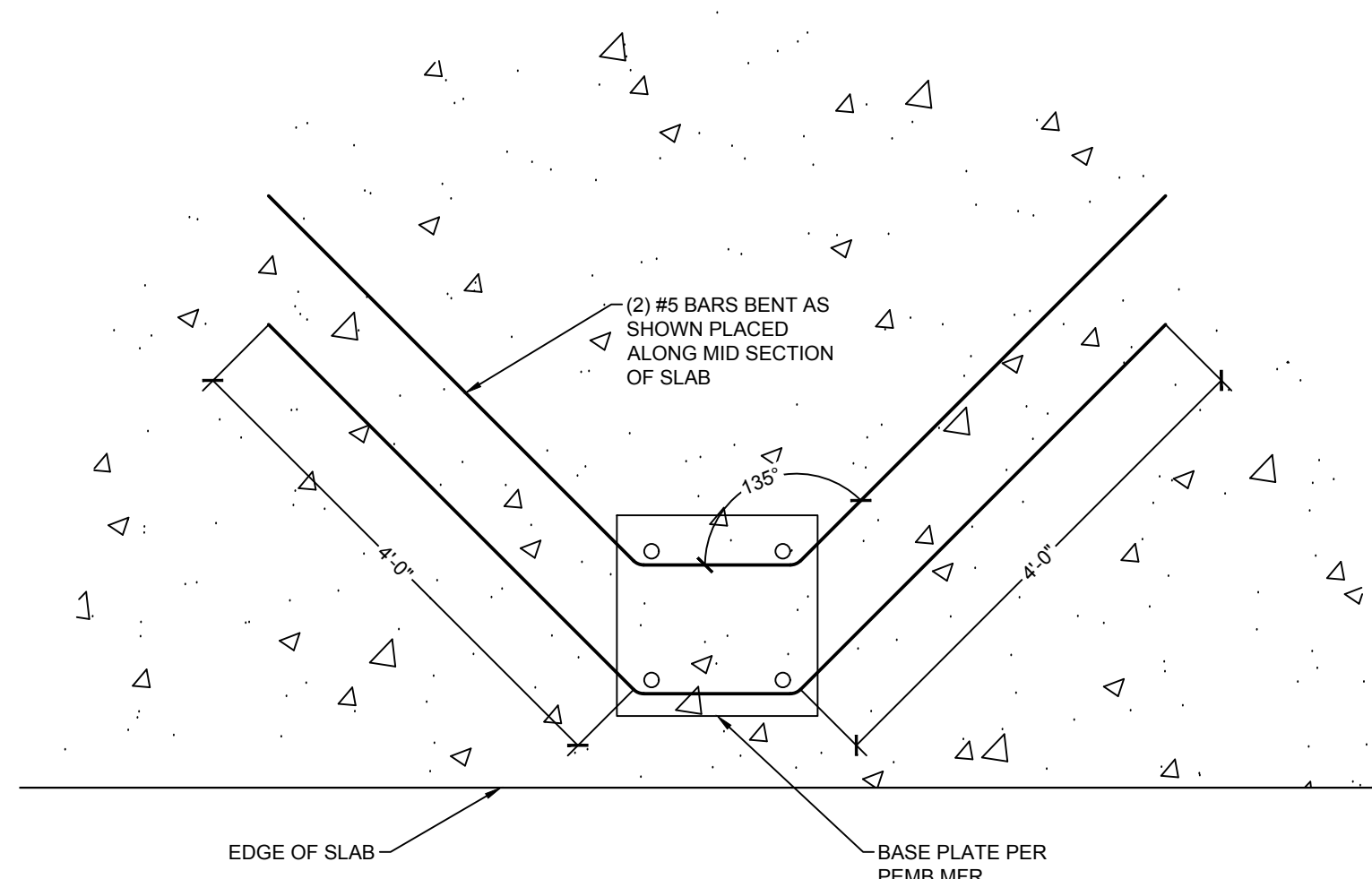
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 PHONE: (850) 257-5316 EMAIL: INFO@ATLASENG.US REGISTRY NO. 34399

FOUNDATION PLAN
 PROJECT NUMBER **23084**
 DATED **01.31.2024**

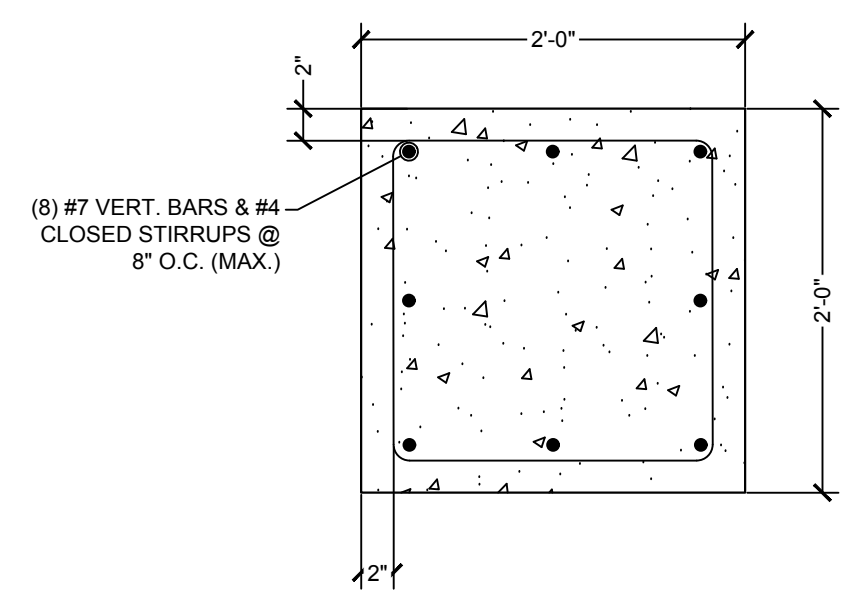
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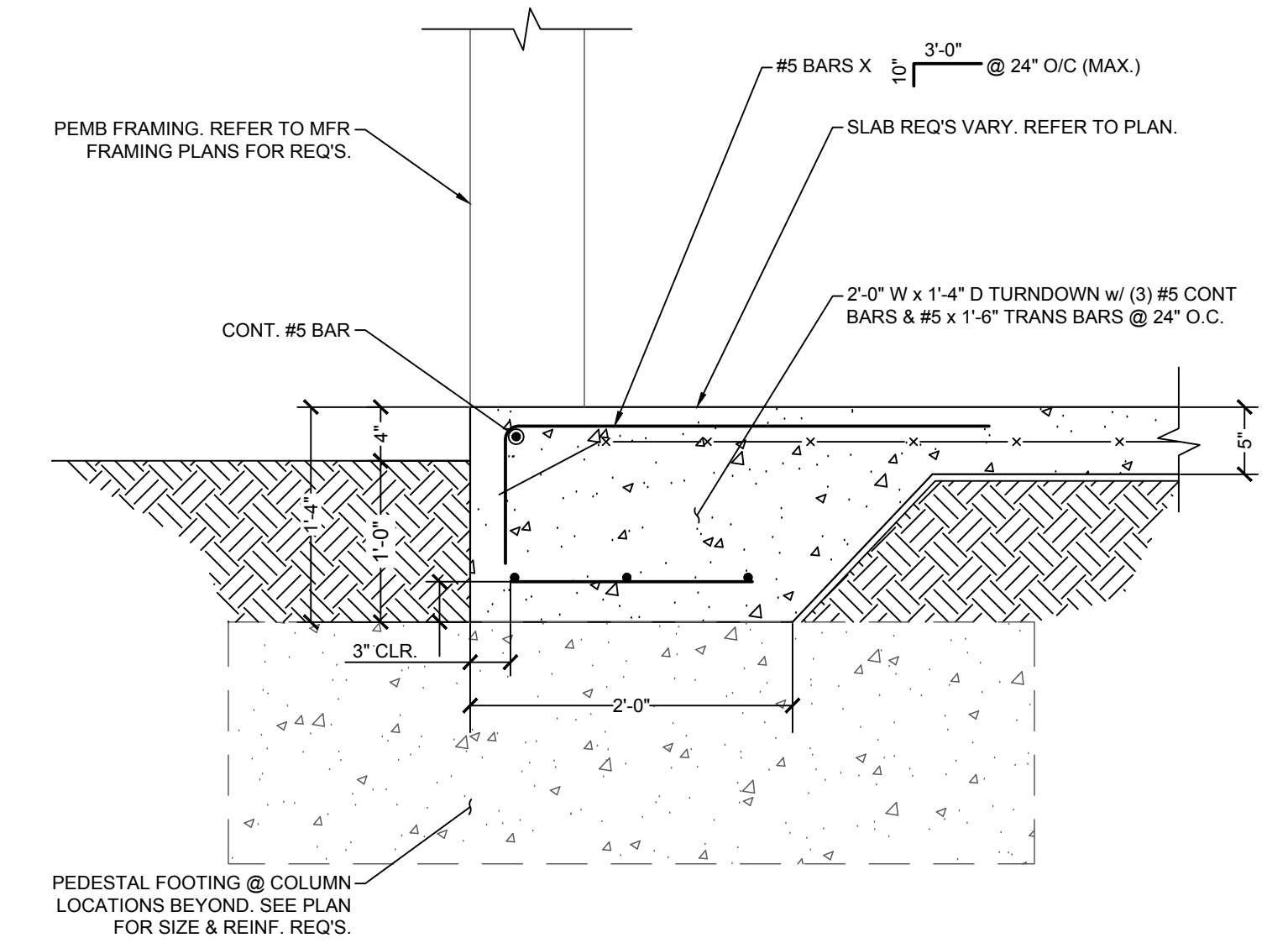
A TYP. SLAB FINISHING DETAIL
SCALE: 1" = 1'-0"



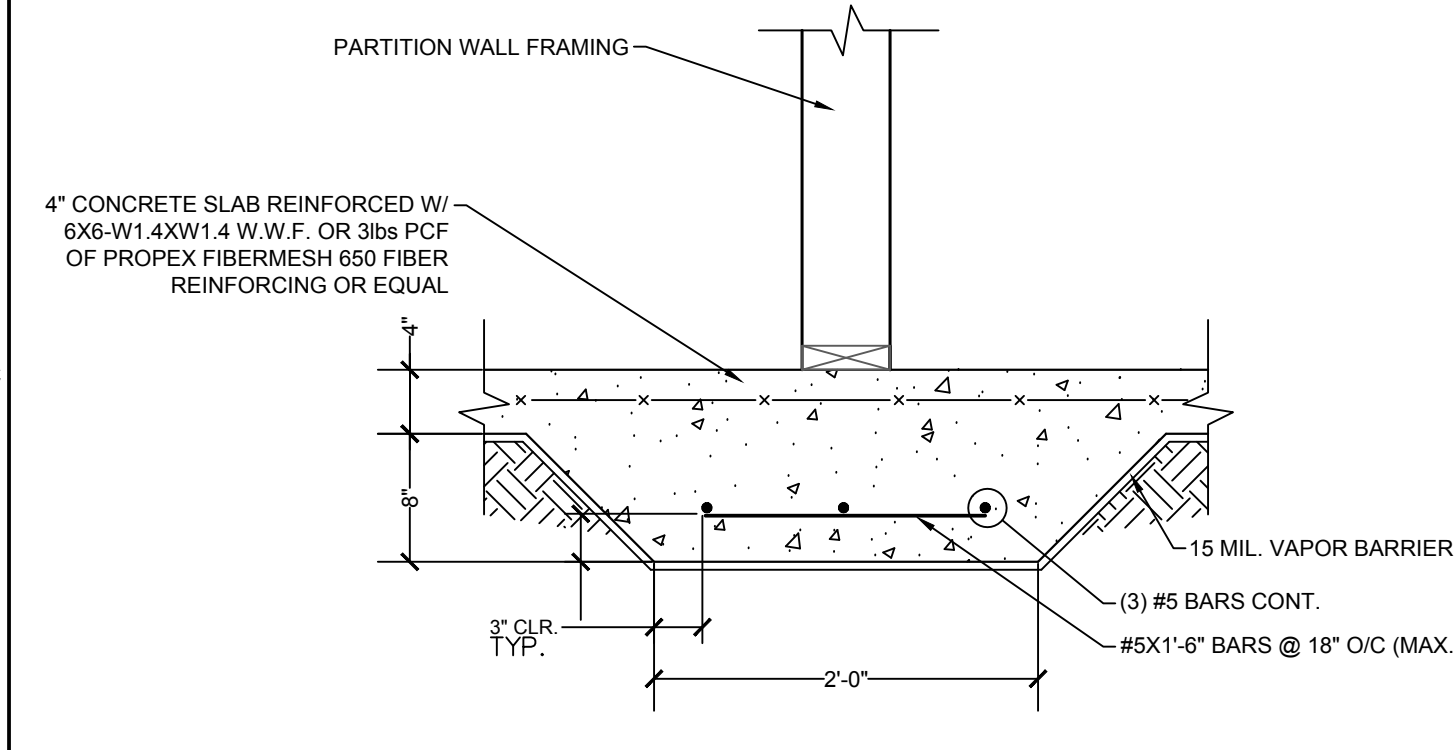
B TYP. HAIRPIN DETAIL
SCALE: 1" = 1'-0"



C TYP. CONCRETE PIER DETAIL
SCALE: 1" = 1'-0"



D TYP. TURNDOWN DETAIL
SCALE: 1" = 1'-0"



E TYP. THICKENED SLAB DETAIL
SCALE: 1" = 1'-0"

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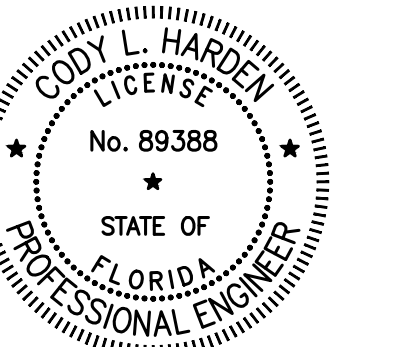
ARCHITECTS

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DOCUMENTS

NEW HANGAR AND HELIPAD PROJECT FOR:
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OFFICE**
642 HIGHWAY 2300, SOUTHPORT, FL 32409



REVISIONS:

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STRUCTURAL
CONSTRUCTION DETAILS

PROJECT NUMBER **23084**
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