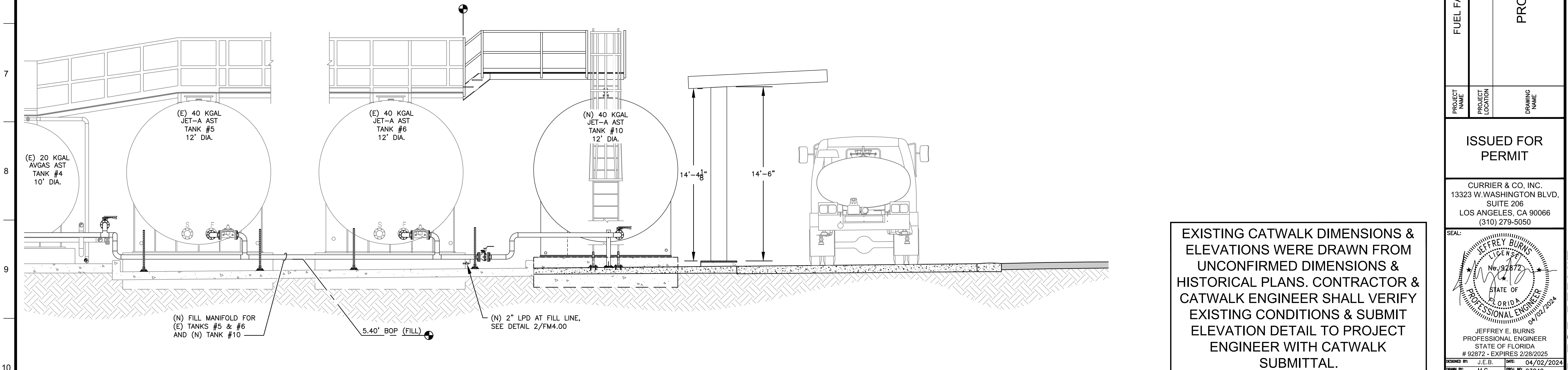


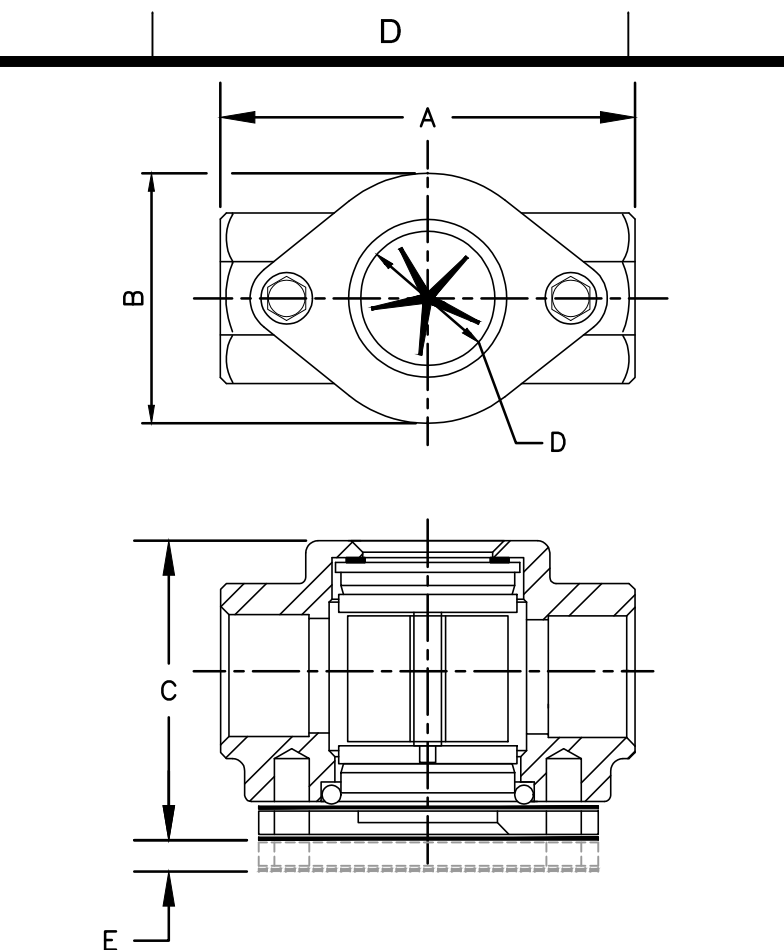
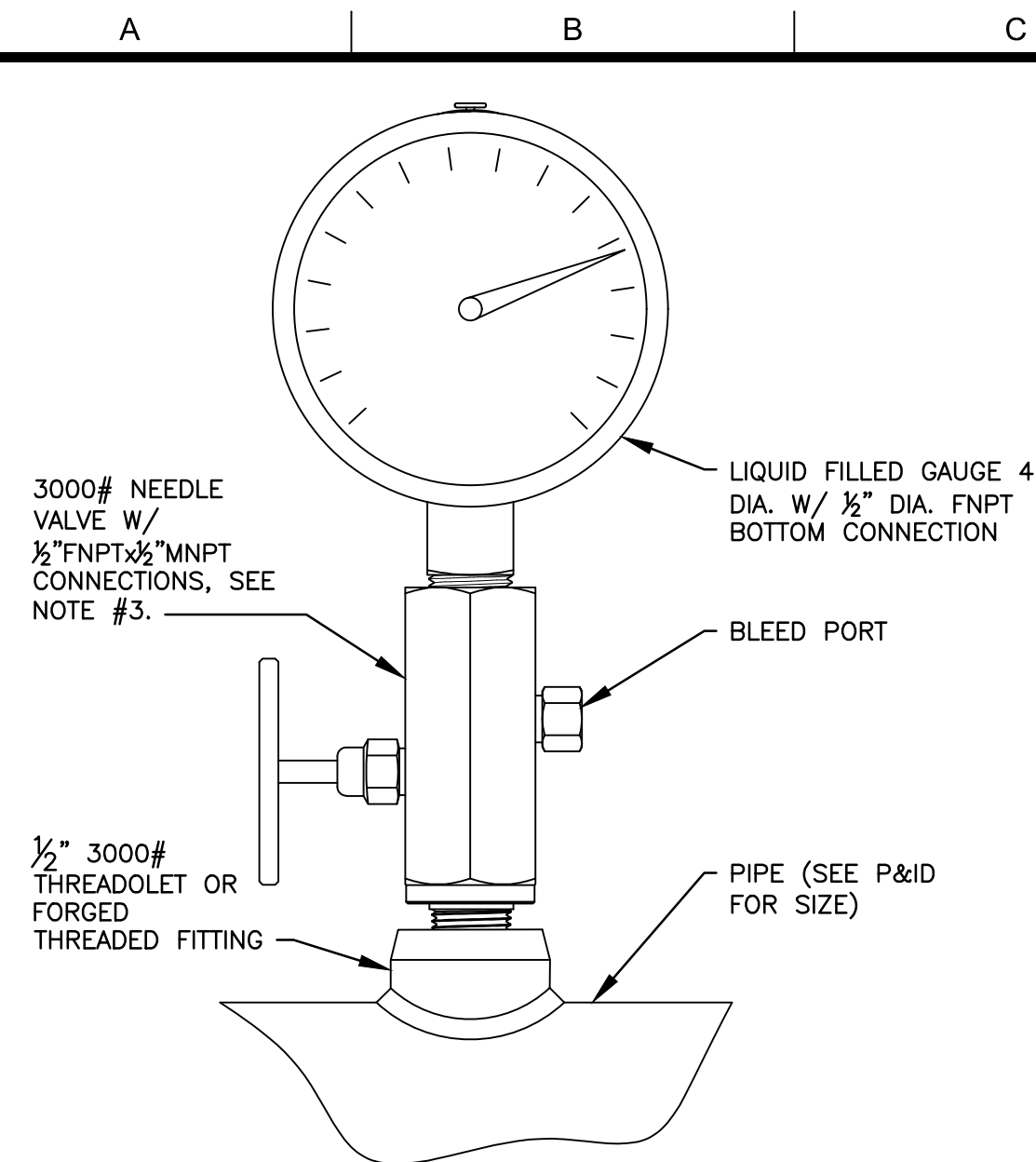
1 PROPOSED MANIFOLDS AT JET-A TANKS #5, #6 & #10 ELEVATION (LOOKING NORTH)
 FM2.00 FM3.00 SCALE: 1"=4' SCALE IN FEET (22x34)



2 PROPOSED FILL MANIFOLD AT JET-A TANKS #5, #6 & #10 ELEVATION (LOOKING NORTH)
 FM2.00 FM3.00 SCALE: 1"=4' SCALE IN FEET (22x34)

EXISTING CATWALK DIMENSIONS & ELEVATIONS WERE DRAWN FROM UNCONFIRMED DIMENSIONS & HISTORICAL PLANS. CONTRACTOR & CATWALK ENGINEER SHALL VERIFY EXISTING CONDITIONS & SUBMIT ELEVATION DETAIL TO PROJECT ENGINEER WITH CATWALK SUBMITTAL.

DATE		
REVISIONS		
PROJECT NAME	FUEL FACILITY IMPROVEMENTS PROJECT	
PROJECT LOCATION	NAPLES AIRPORT (APF)	
DRAWING NAME	PROPOSED JET-A TANK #10 ELEVATION	
ISSUED FOR PERMIT		
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050		
DESIGNED BY:	J.E.B.	DATE: 04/02/2024
DRAWN BY:	M.G.	PROJ. NO.: 23049
APPROVED BY:	J.E.B.	FILE NAME: 23049FM300
SHEET NUMBER:	FM3.00	



DIMENSIONS FOR THREADED SIGHT FLOW INDICATORS

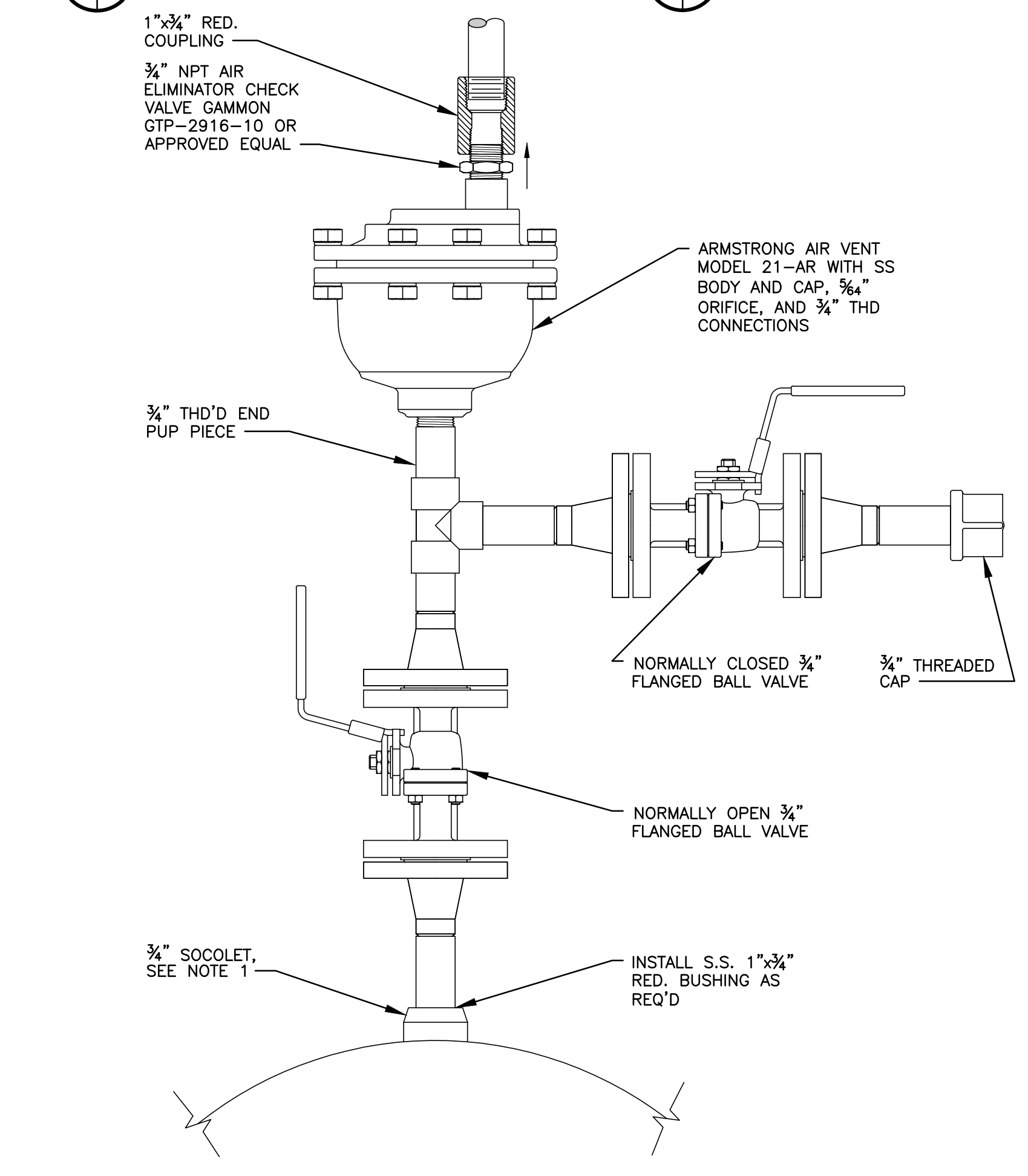
THREAD SIZE	3/4"	1"	2"
A - OVERALL LENGTH	4 1/4"	4 1/4"	5 1/2"
B - OVERALL WIDTH	2 3/16"	2 3/16"	3 3/16"
C - OVERALL HEIGHT	3 1/4"	3 1/4"	4 1/8"
D - SIGHT OPENING DIAMETER	1 1/2"	1 1/2"	2"
E - ADDED HEIGHT DUE TO SHIELD	1/2"	1/2"	1/2"
TOTAL WEIGHT (LBS)	3	2.7	6.6

*DIMENSIONS APPLY TO DETAIL 6/FM4.00

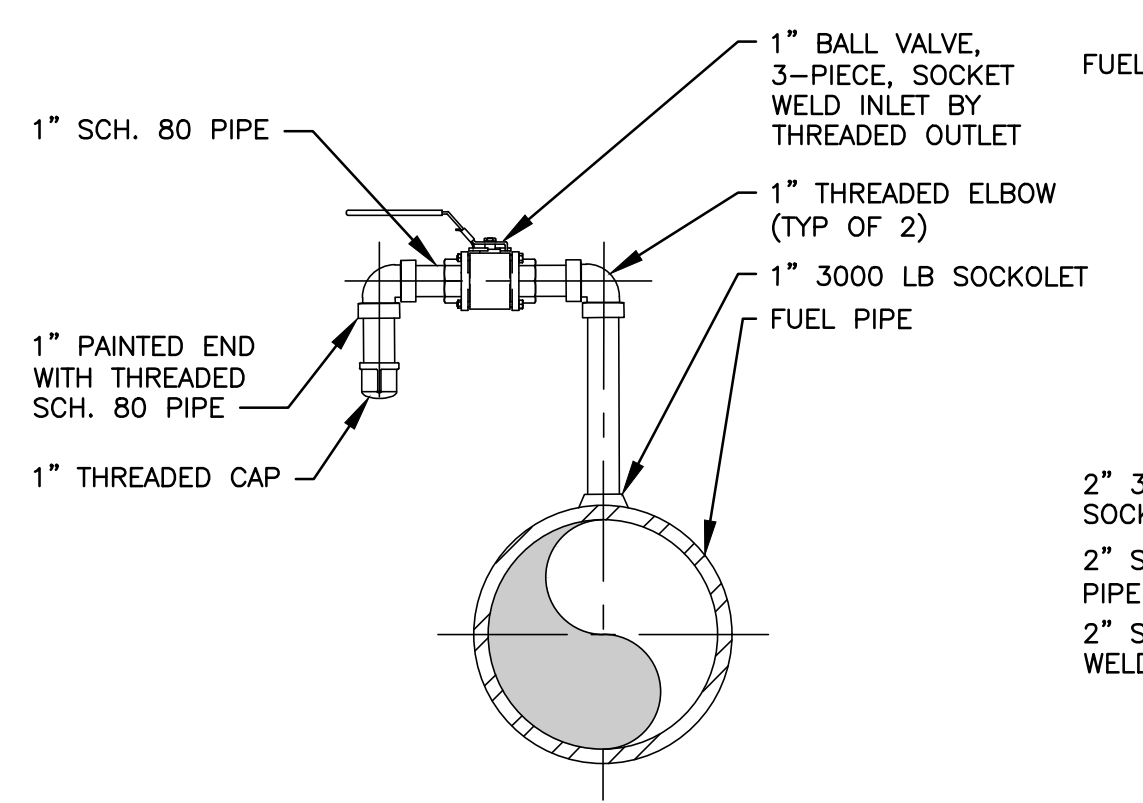
- NOTES:
- PROVIDE VENT UNDER THE PUMP DISCHARGE GAUGE ONLY. DO NOT PROVIDE A VENT UNDER THE PUMP SUCTION OR CASING PRESSURE GAUGE.
 - GAUGE TO HAVE STAINLESS CASE, WITH BOURDON TUBES OF STAINLESS STEEL. GAUGES TO BE GLYCERIN FILLED TO MINIMIZE VIBRATION AND PULSATION.
 - NOSHOK MODEL 700 SERIES OR APPROVED EQUAL.

1 PRESSURE GAUGE
FM1.03/FM4.00 SCALE: NONE

2 SIGHT FLOW INDICATOR
FM1.03/FM4.00 SCALE: NONE

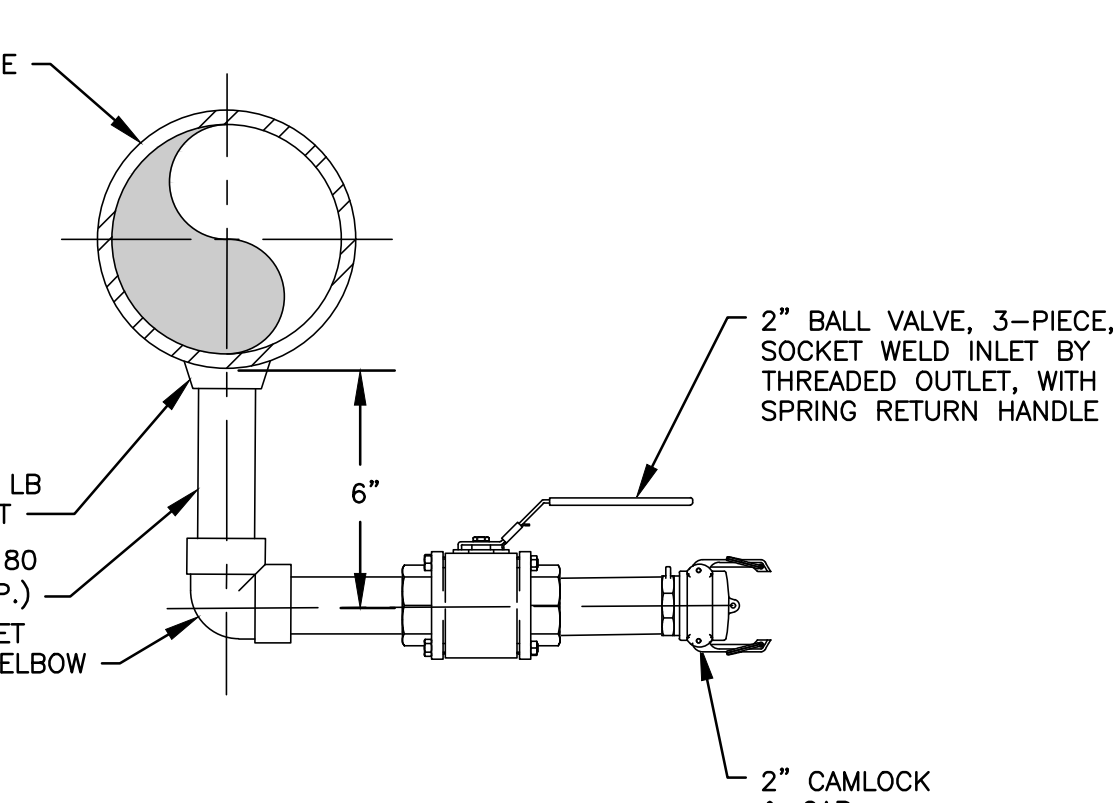


6 AUTOMATIC AIR VENT ATOP VESSELS
FM1.03/FM4.00 SCALE: NONE



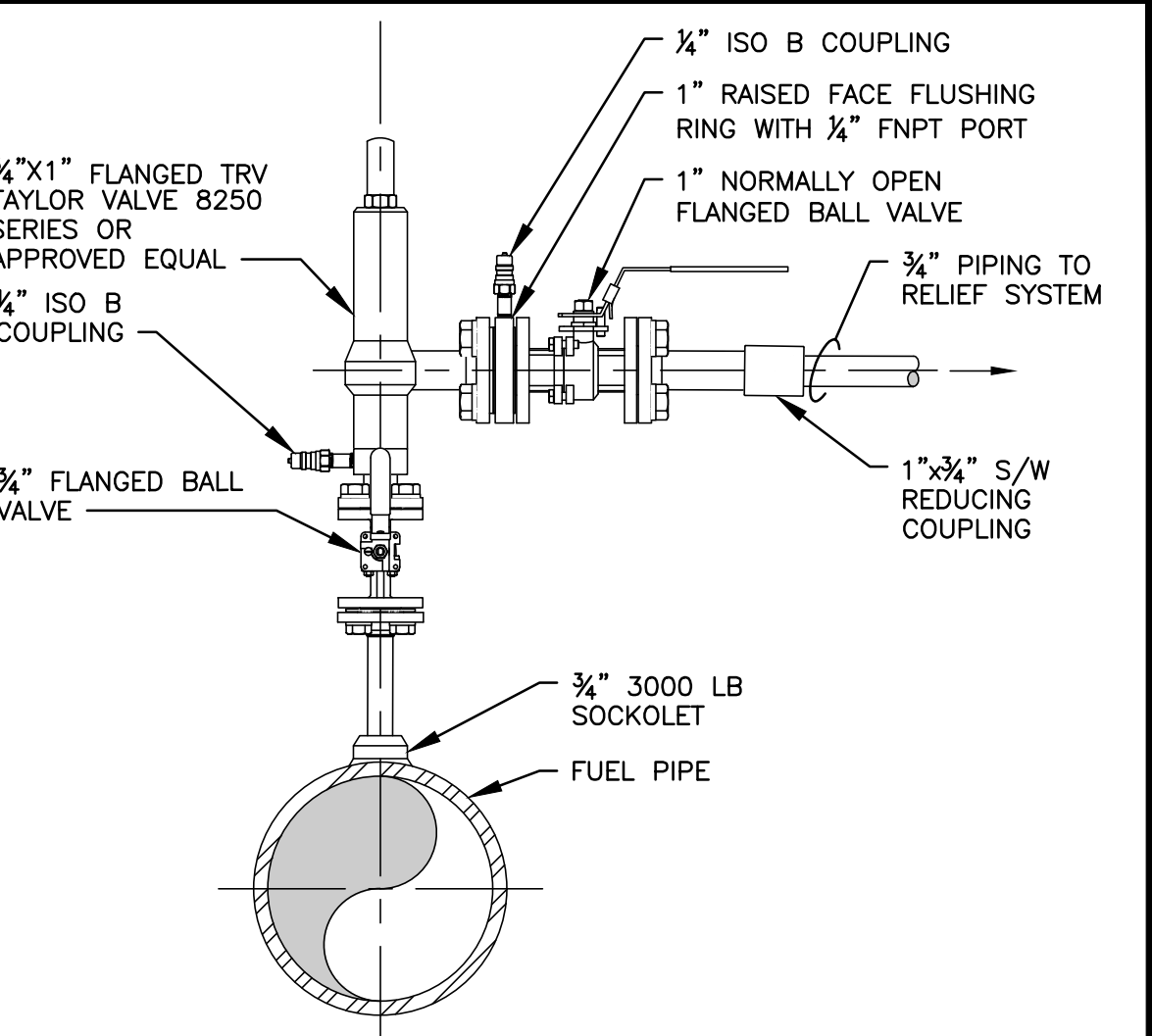
- NOTES:
- ALL PIPE SHALL BE SCH. 80.

3 HIGH POINT VENT
FM1.03/FM4.00 SCALE: NONE



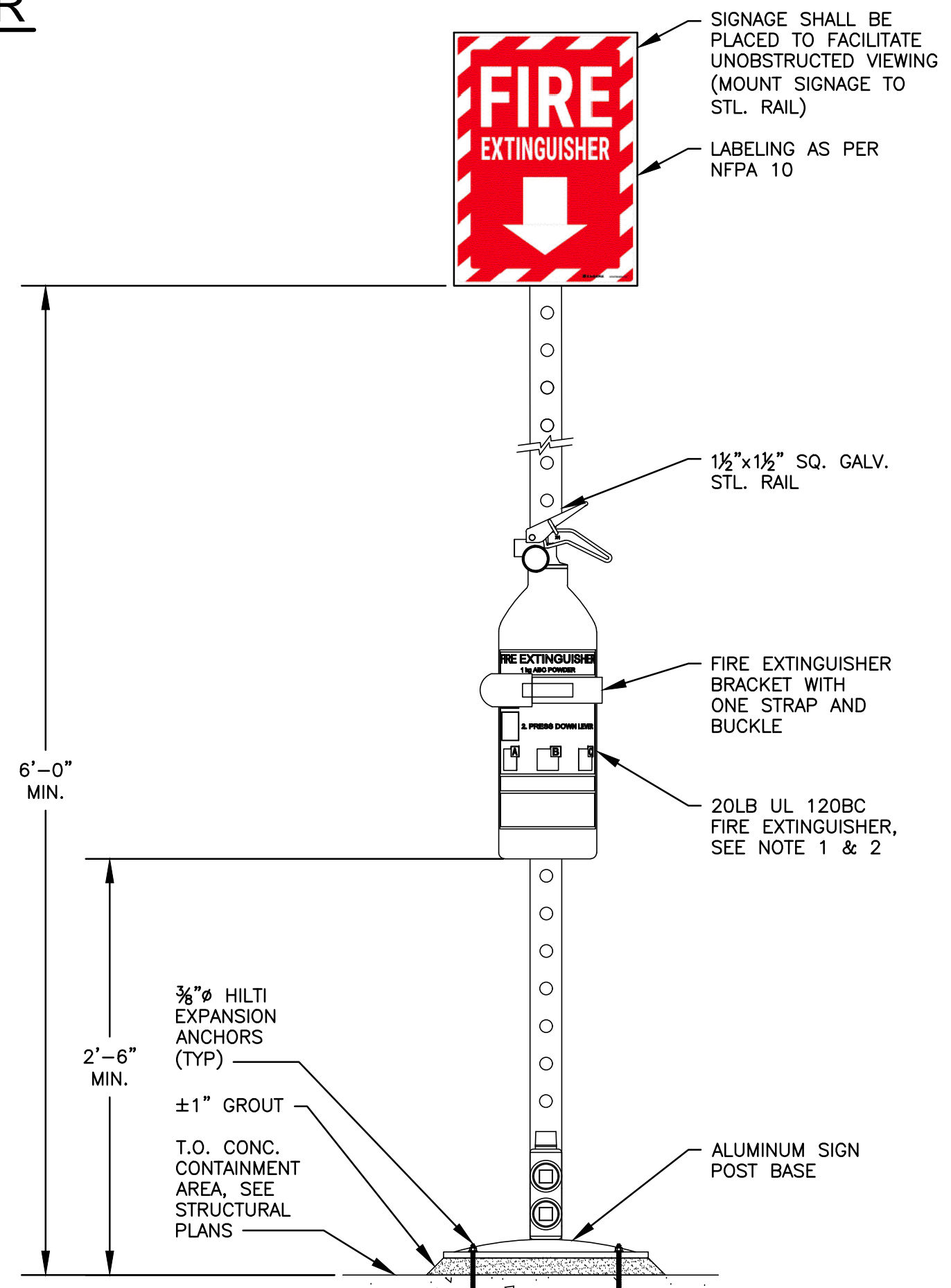
- NOTES:
- ALL PIPE SHALL BE SCH. 80.

4 LOW POINT DRAIN
FM1.03/FM4.00 SCALE: NONE



- NOTES:
- ALL PIPE SHALL BE SCH. 80.

5 THERMAL RELIEF VALVE
FM1.03/FM4.00 SCALE: NONE



- NOTES:
- CONTRACTOR SHALL PROVIDE A 125LB UL 80B FIRE EXTINGUISHER AT LOADING ISLAND.
 - PER NFPA 10, CONTRACTOR SHALL SUPPLY FIRE EXTINGUISHERS RATED FOR -40°F TO 120°F

7 FIRE EXTINGUISHER
FM2.10/FM4.00 SCALE: NONE

DATE

REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT

NAPLES AIRPORT (APF)

MECHANICAL DETAILS SHEET 1

PROJECT NAME

PROJECT LOCATION

DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL:

JEFFREY E. BURNS
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

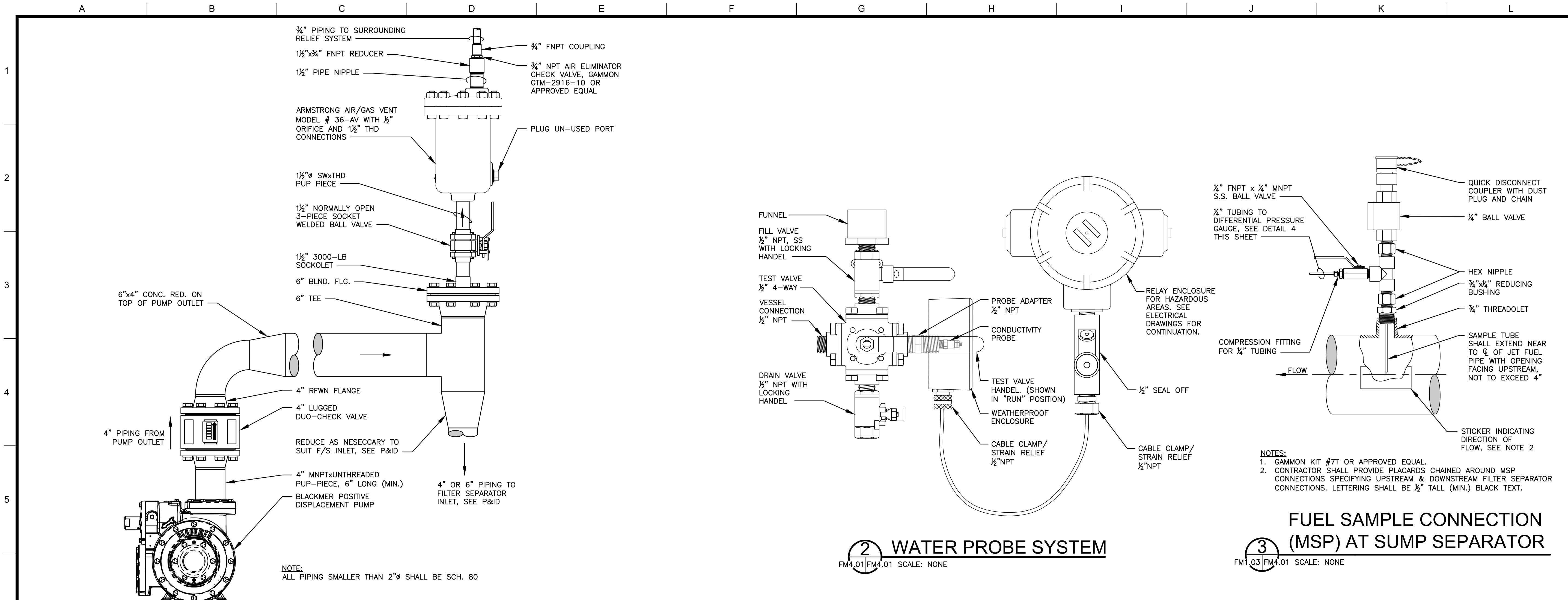
DESIGNED BY: J.E.B. DATE: 04/02/2024

DRAWN BY: M.G. PROJ. NO: 23049

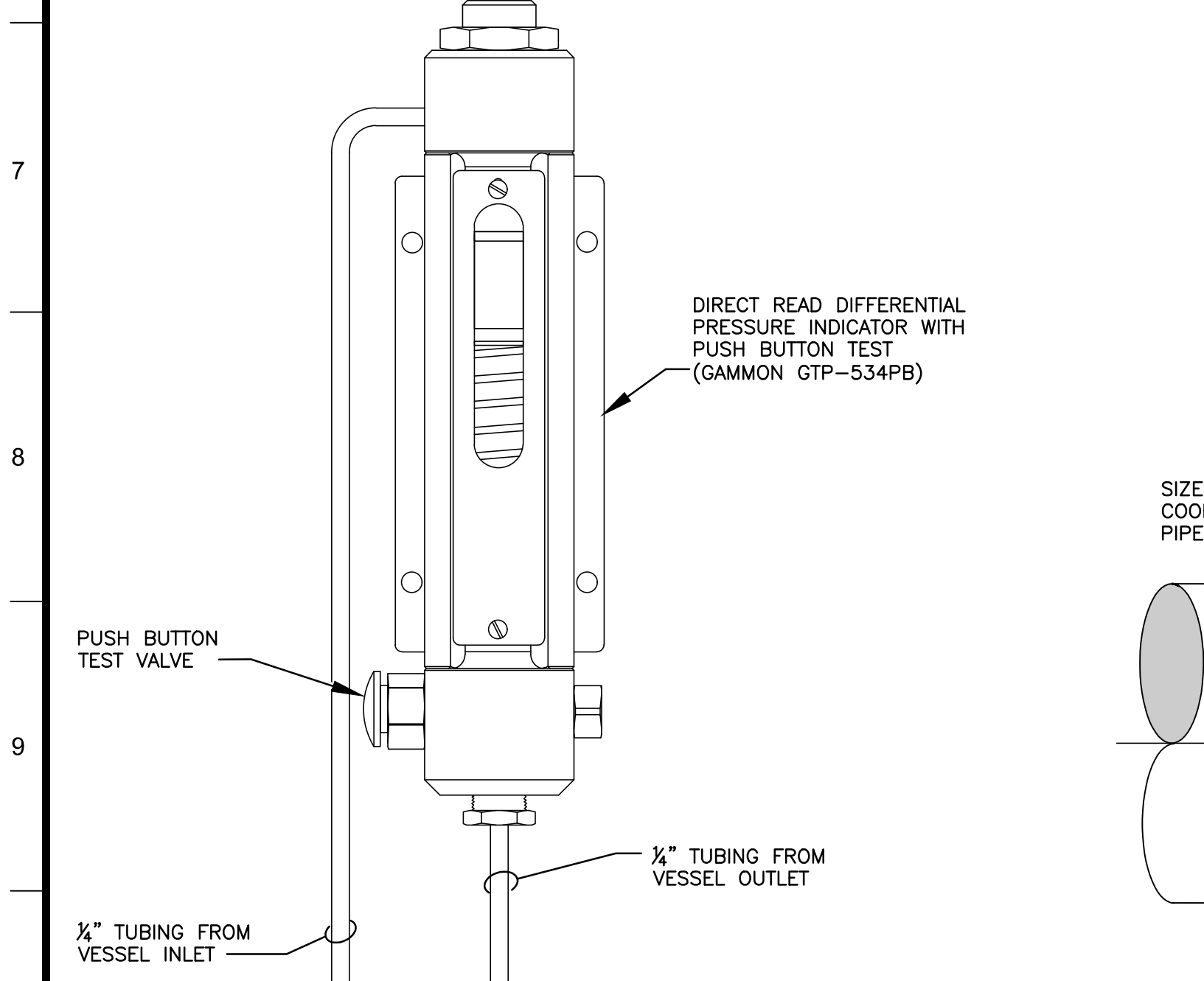
APPROVED BY: J.E.B. FILE NAME: 23049FM400

SHEET NUMBER: FM4.00

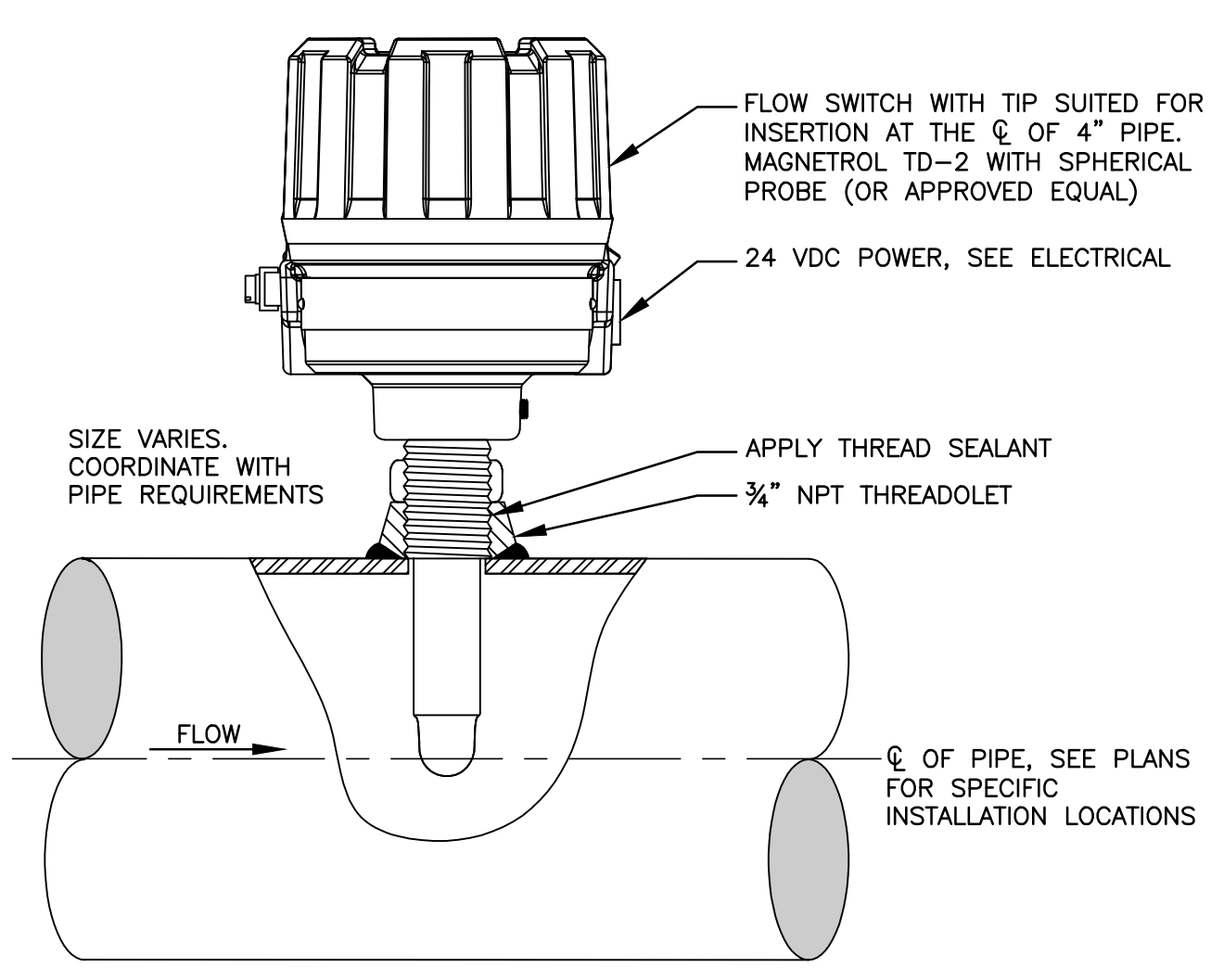
ISSUED FOR PERMIT



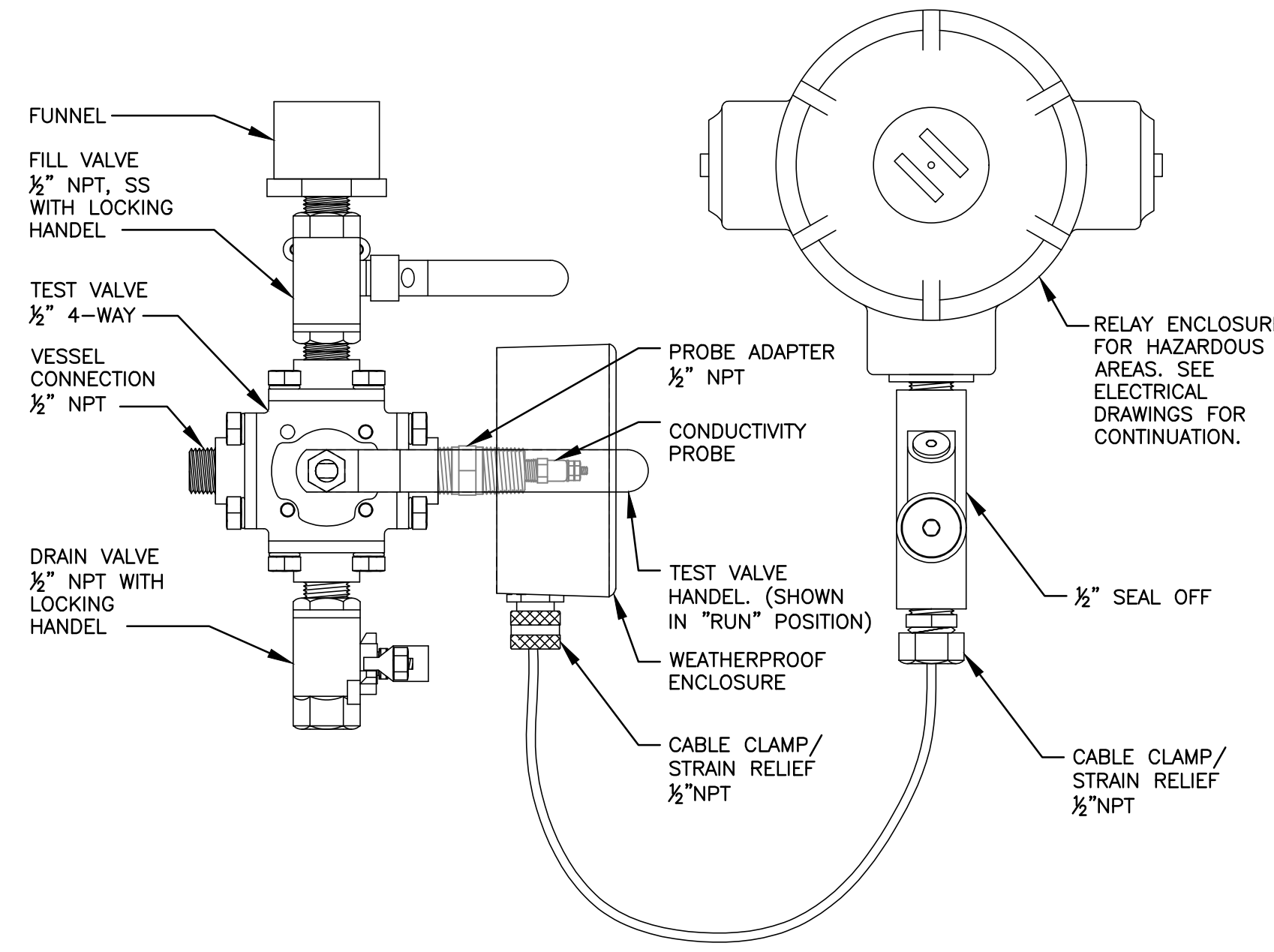
1 AIR ELIMINATOR AT PUMP DISCHARGE
 FM2.10|FM4.01 SCALE: NONE



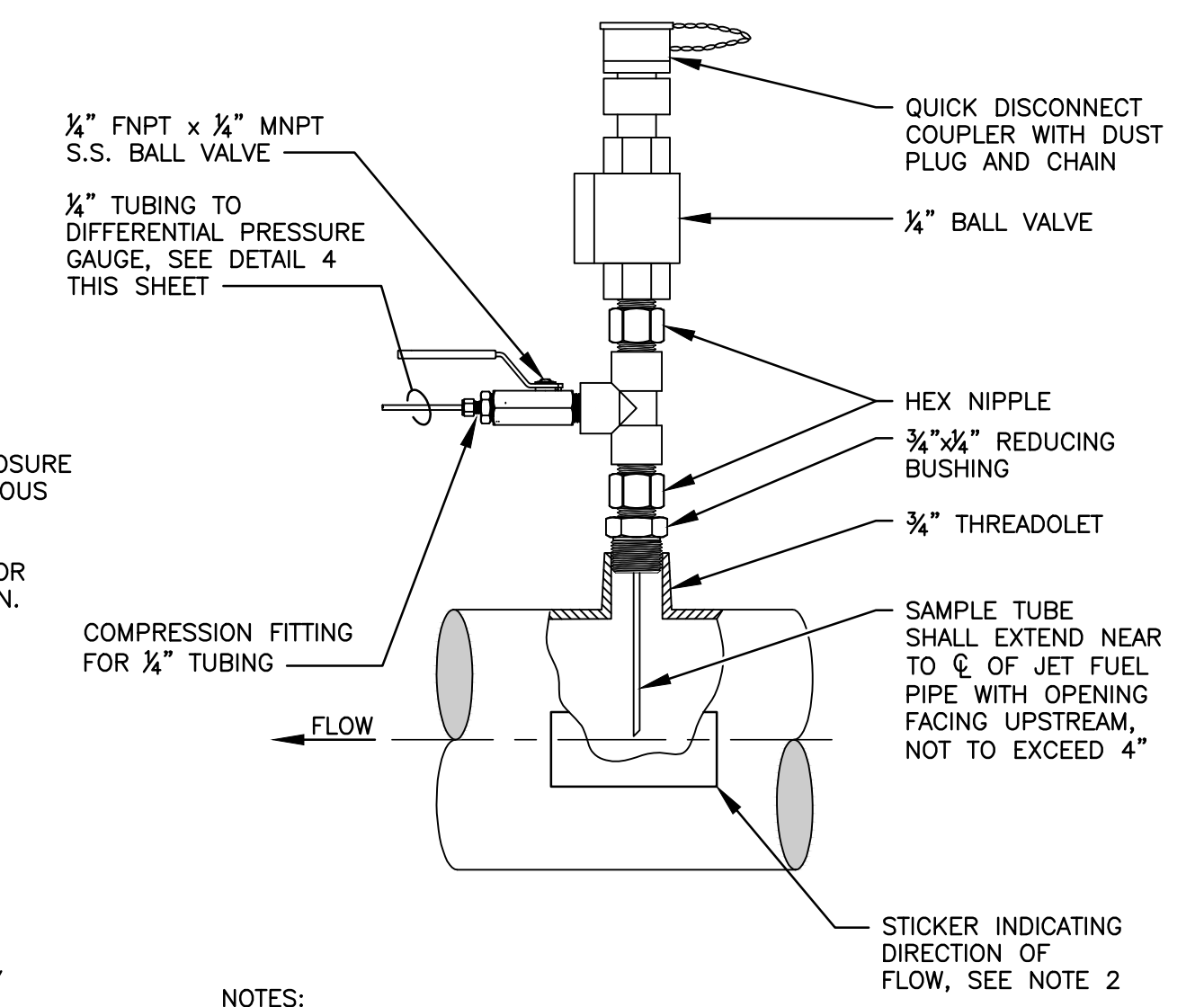
4 DIFFERENTIAL PRESSURE GAUGE
 FM1.03|FM4.01 SCALE: NONE



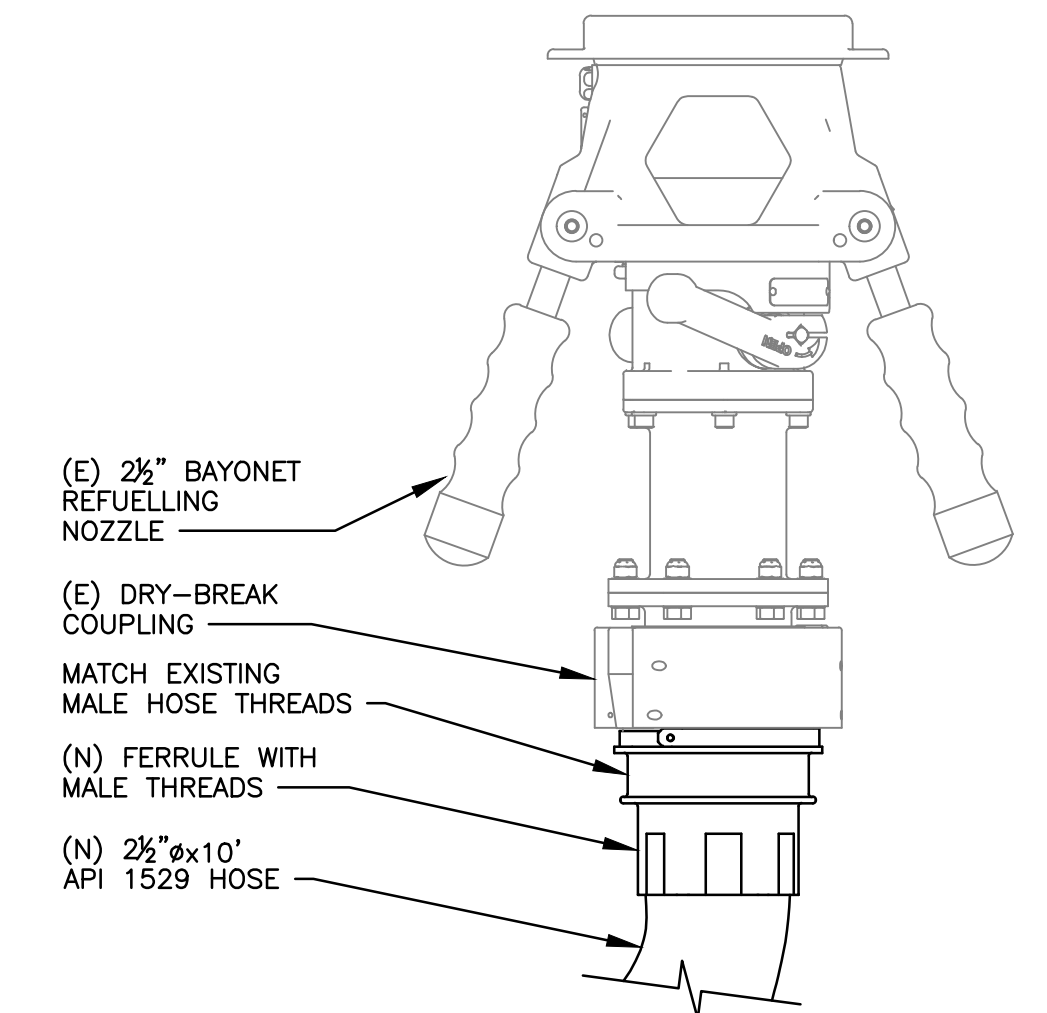
5 FLOW SWITCH
 FM2.10|FM4.01 SCALE: NONE



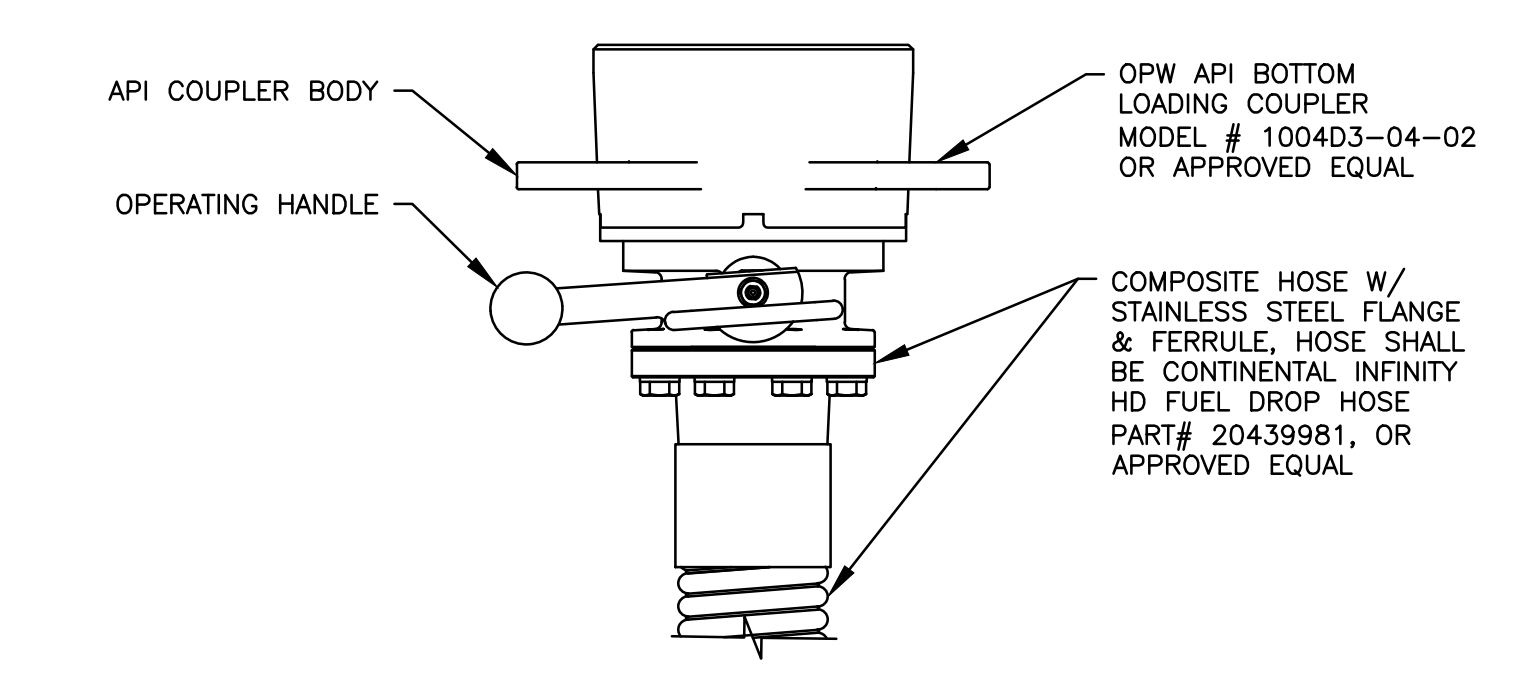
2 WATER PROBE SYSTEM
 FM4.01|FM4.01 SCALE: NONE



3 FUEL SAMPLE CONNECTION (MSP) AT SUMP SEPARATOR
 FM1.03|FM4.01 SCALE: NONE



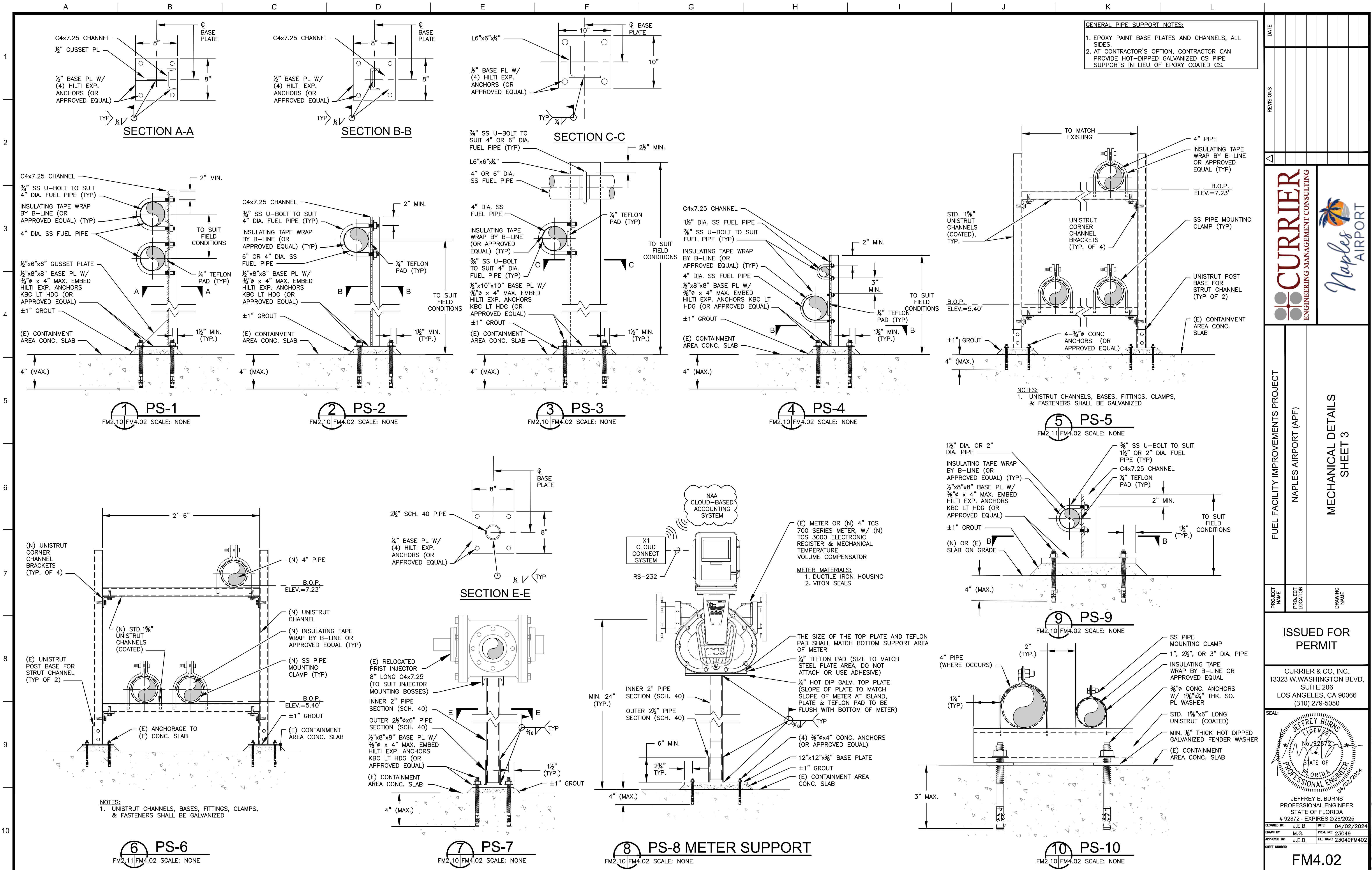
6 LOADING BAYONET CONNECTOR
 FM2.10|FM4.01 SCALE: NONE



7 JET-A OFFLOADING CONNECTION & HOSE
 FM2.12|FM4.01 SCALE: NONE

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) MECHANICAL DETAILS SHEET 2	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
JEFFREY E. BURNS PROFESSIONAL ENGINEER STATE OF FLORIDA # 92872 - EXPIRES 2/28/2025	
DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049FM401
FM4.01	

ISSUED FOR PERMIT



GENERAL PIPE SUPPORT NOTES:
 1. EPOXY PAINT BASE PLATES AND CHANNELS, ALL SIDES.
 2. AT CONTRACTOR'S OPTION, CONTRACTOR CAN PROVIDE HOT-DIPPED GALVANIZED CS PIPE SUPPORTS IN LIEU OF EPOXY COATED CS.

DATE	
REVISIONS	

CURRIER
 ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
 NAPLES AIRPORT (APF)

**MECHANICAL DETAILS
 SHEET 3**

ISSUED FOR PERMIT

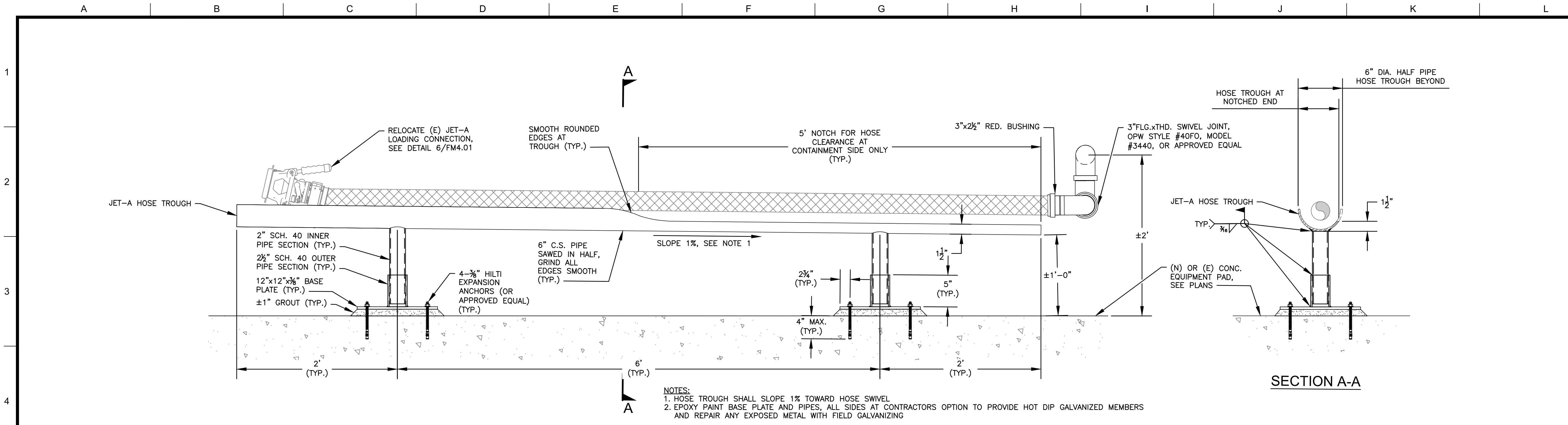
CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

SEAL: **JEFFREY E. BURNS**
 LICENSED PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 No. 92872
 EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: J.E.B. FILE NAME: 23049FM402
 SHEET NUMBER:

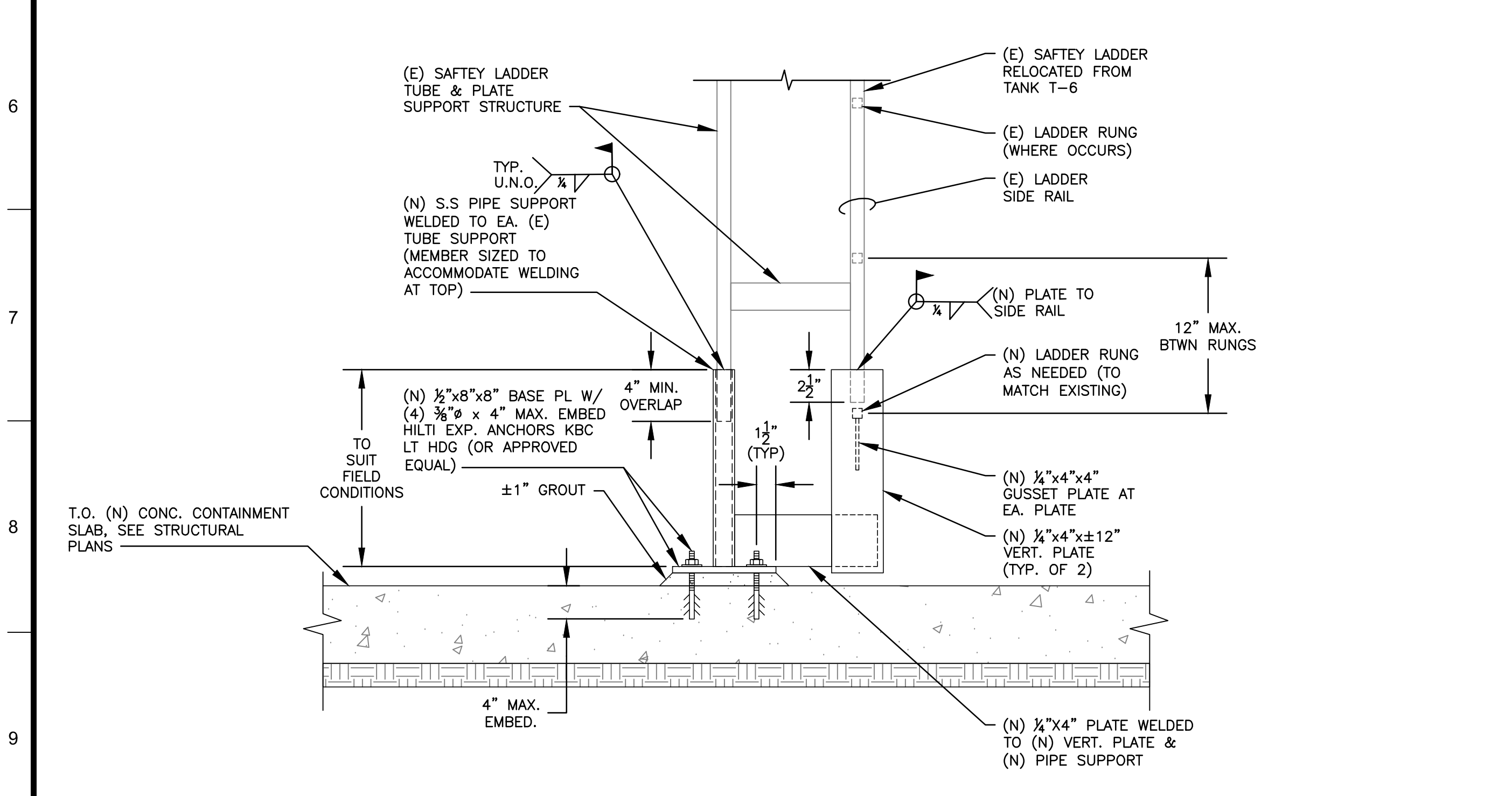
FM4.02

ISSUED FOR PERMIT

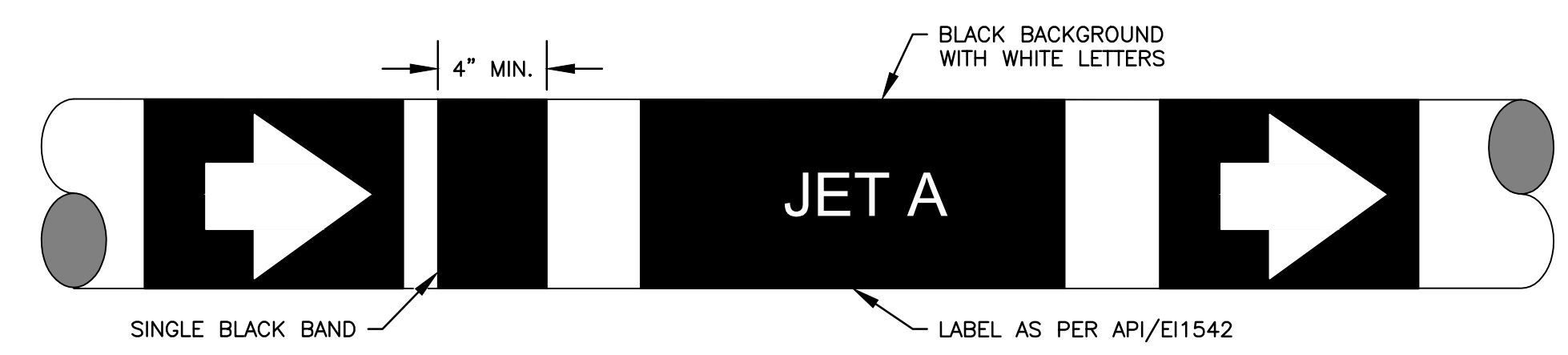
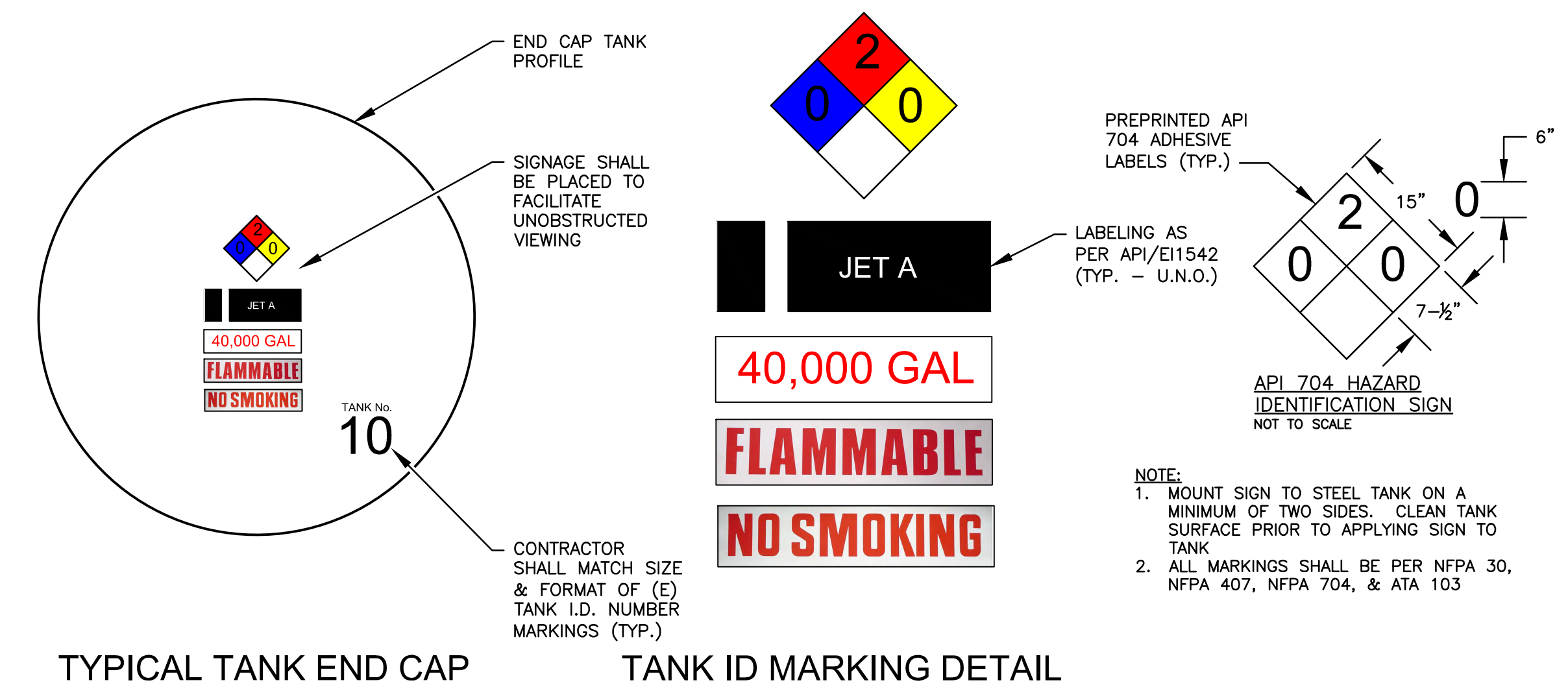


NOTES:
 1. HOSE TROUGH SHALL SLOPE 1% TOWARD HOSE SWIVEL.
 2. EPOXY PAINT BASE PLATE AND PIPES, ALL SIDES AT CONTRACTORS OPTION TO PROVIDE HOT DIP GALVANIZED MEMBERS AND REPAIR ANY EXPOSED METAL WITH FIELD GALVANIZING

1 JET-A HOSE TROUGH AT EAST LOADING POSITIONS
 FM2.10 FM4.03 SCALE: 1 1/2"=1'-0"



2 EXTENSION TO EXISTING LADDER AT TANK #10
 FM2.13 FM4.03 SCALE: NONE



3 JET-A TANK & PIPE ID MARKING DETAIL
 FM4.03 SCALE: NONE

PIPE ID MARKING NOTES:
 1. BANDING SHALL BE PLACED AT 20' INTERVALS
 2. LONGER INTERVALS MAY BE USED ON LONG PIPE RUNS WHEN THE PRECEDING AND NEXT BANDS ARE VISIBLE FROM EACH BAND LOCATION

DATE	
REVISIONS	

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	MECHANICAL DETAILS SHEET 4
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

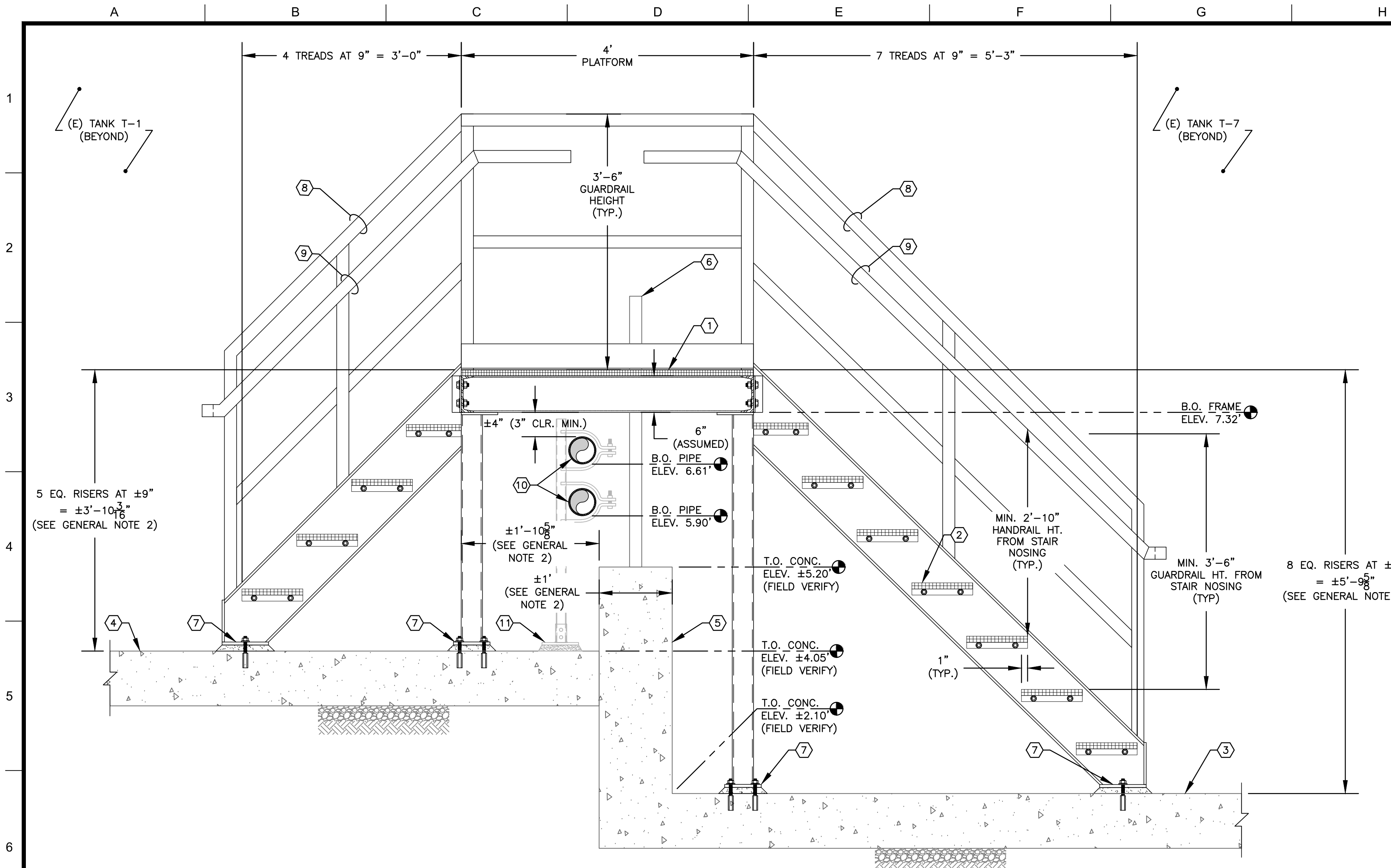
SEAL:

JEFFREY E. BURNS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 #92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: J.E.B.	FILE NAME: 23049FM403
SHEET NUMBER:	

FM4.03

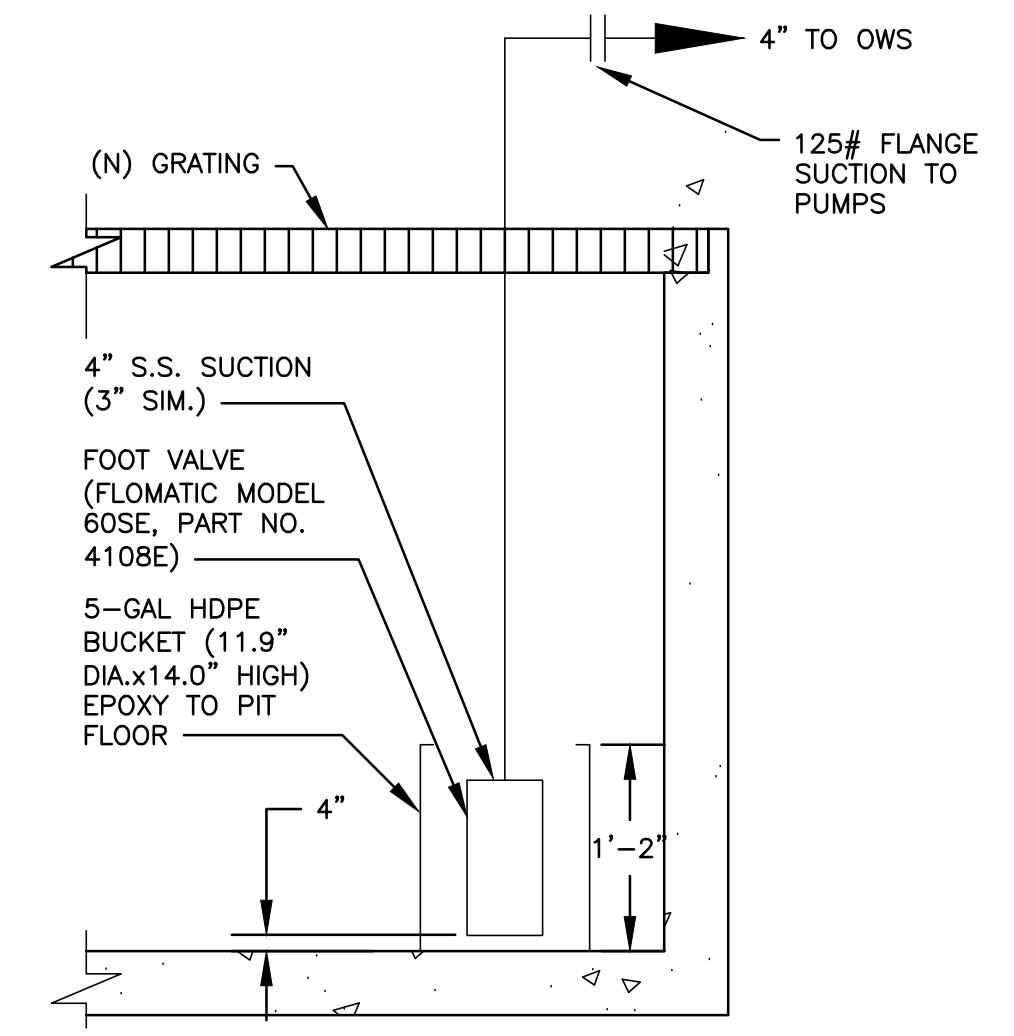
ISSUED FOR PERMIT



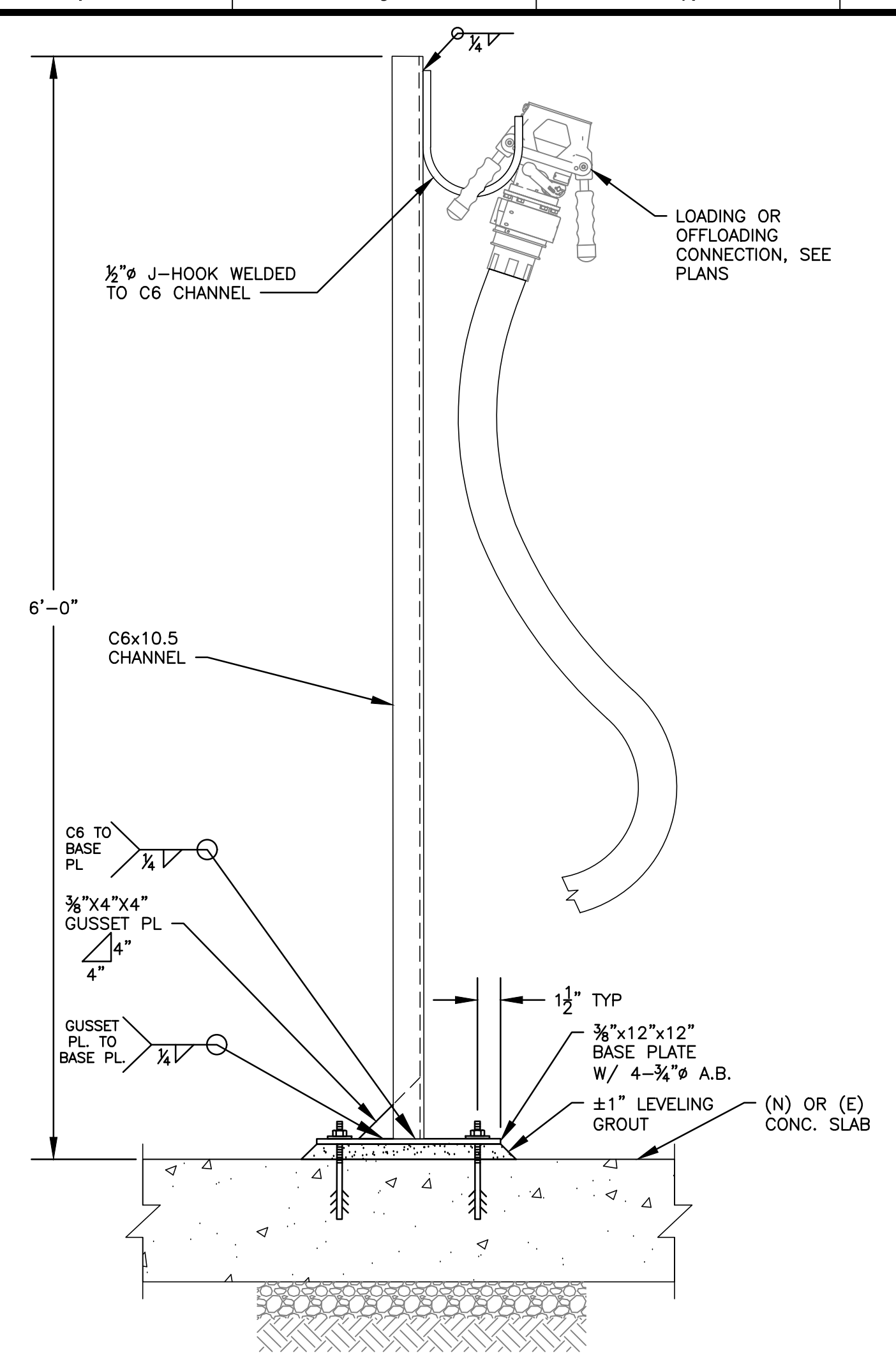
- GENERAL NOTES:**
- ALL PROPOSED METAL ELEMENTS SHALL BE DESIGNED BY STAIR MANUFACTURER AND SHALL BE BONDED AND GROUNDED PER N.E.C. (SEE OTHER CATWALK DETAILS ON FT PLANS FOR GRATING, RAILING ETC.). ALL ELEMENTS & CONNECTIONS MAY BE REVISED AS PER PRE-ENGINEERED DESIGN, SUBMIT SIGNED AND SEALED DRAWINGS FOR APPROVAL.
 - ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO STAIR FABRICATION.

- KEYNOTES: (#)**
- PROPOSED PRE-ENGINEERED GALVANIZED STEEL PANEL ACCESS PLATFORM (PER FINAL APPROVED SHOP DRAWINGS). ASSUMED 1" THK. PLATFORM.
 - PROPOSED SHIP LADDER (STAIRS): (2) C10X30 (A992) STRINGERS (ASSUMED) GALVANIZED AFTER MANUFACTURING W/ PREMANUFACTURED GALVANIZED STEEL TREADS WITH CORRUGATED ANGLE NOSING 1"x $\frac{3}{8}$ " HDG STEEL GRATING 1"x1"x $\frac{3}{8}$ " ANGLE W/ (2) $\frac{1}{2}$ " DIA. 316SS BOLTS AND LOCK NUTS.
 - (E) TANK T-7 CONC. CONTAINMENT SLAB
 - (E) TANK T-1 CONC. CONTAINMENT SLAB
 - (E) CONC. CONTAINMENT WALL
 - (E) GUARDRAIL (BEYOND)
 - EACH SUPPORT AND STRINGER $\frac{3}{8}$ " (MIN.) DIA. 316 STAINLESS STEEL WEDGE ANCHOR BOLTS, 4" EMBEDMENT MIN., 6" MIN. CONC. EDGE DISTANCE (WHERE OCCURS) W/ LOCKING NUTS AND HEAVY WASHER (ALL 316 STAINLESS STEEL) OR APPROVED EQUAL
 - GUARDRAIL ADJACENT TO STAIR HANDRAIL, WHERE REQUIRED. HEIGHT SHALL BE MIN. 3'-6" FROM STAIR NOSING.
 - HANDRAIL, WHERE REQUIRED.
 - JET-A FUEL PIPING, SEE SHT. FM2.12
 - PIPE SUPPORT BEYOND, SEE SHT. FM2.12

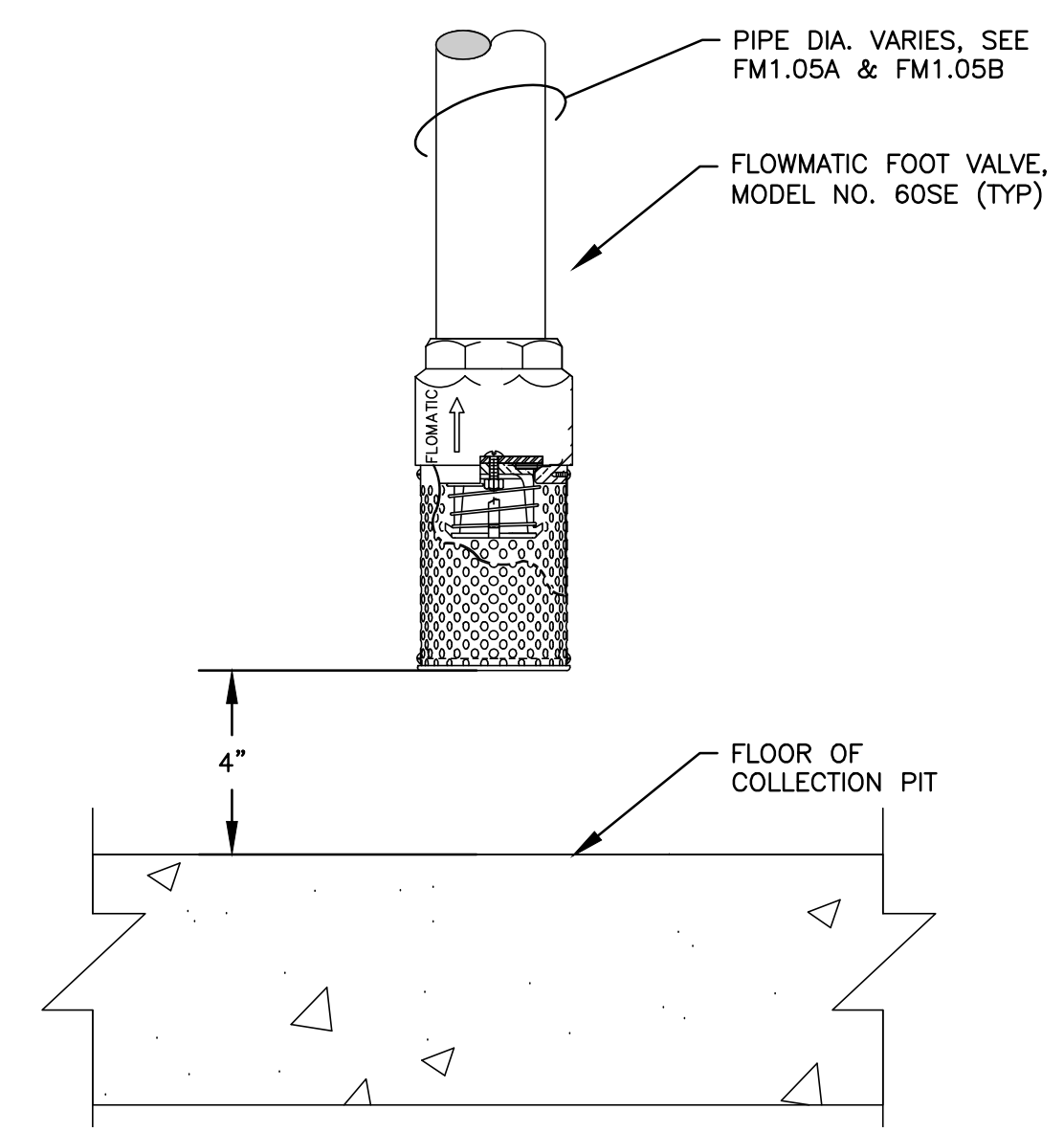
1 TANK #7 ACCESS PLATFORM
FM2.12|FM4.04 SCALE: 1"=1'



3 COLLECTION PIT SUCTION
FM1.05B|FM4.04 SCALE: NONE



2 JET-A LOADING CONNECTION WITH HOSE END CONTROL VALVE
FM2.12|FM4.04 SCALE: NONE



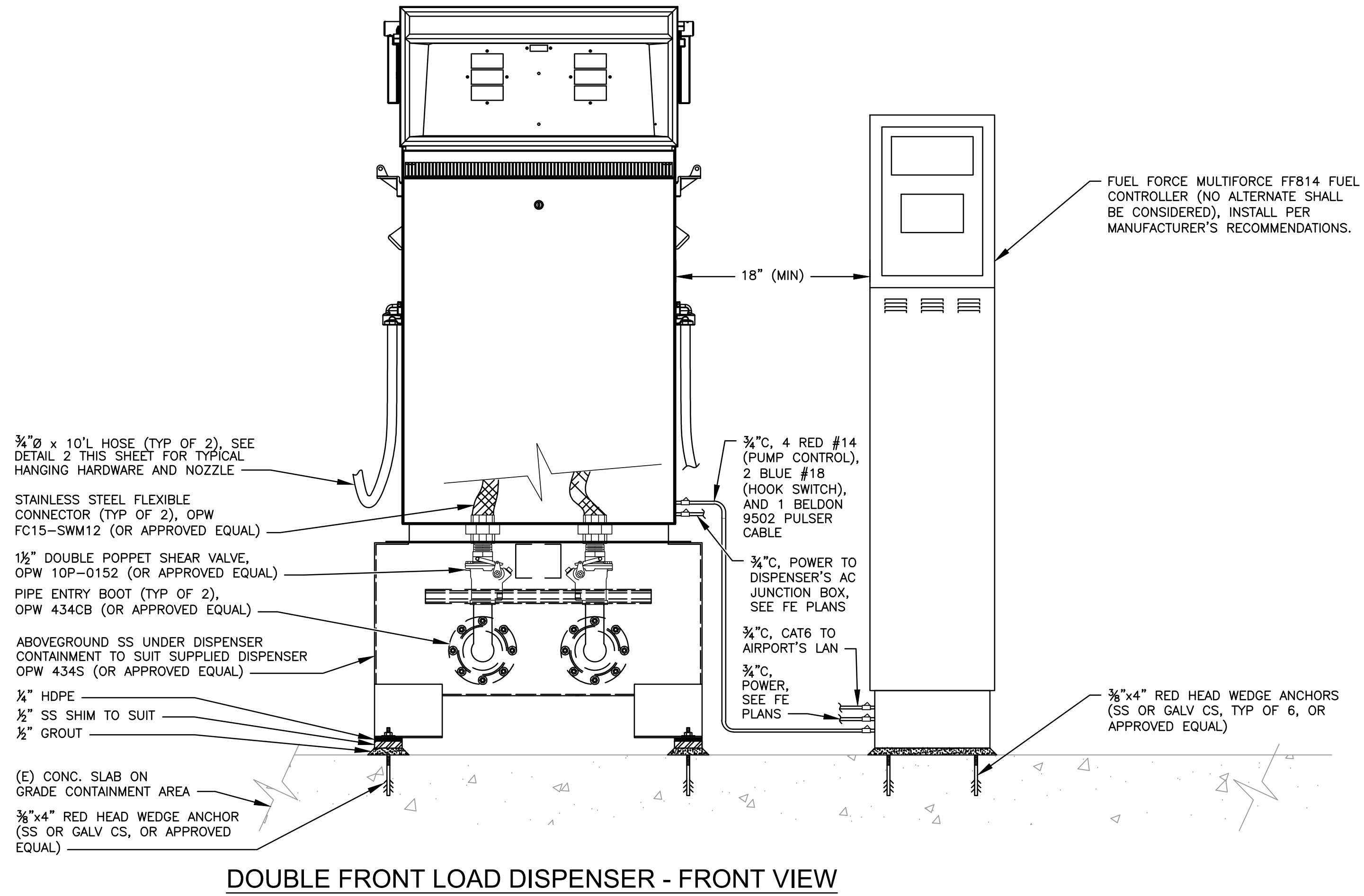
4 FOOT VALVE DETAIL
FM1.05B|FM4.04 SCALE: NONE

DATE			
REVISIONS			
FUEL FACILITY IMPROVEMENTS PROJECT		MECHANICAL DETAILS SHEET 5	
PROJECT NAME: NAPLES AIRPORT (APF)		DRAWING NAME:	
PROJECT LOCATION:		PROJECT NUMBER:	
ISSUED FOR PERMIT			
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050			
DESIGNED BY: J.E.B.	DATE: 04/02/2024	SHEET NUMBER:	
DRAWN BY: A.R.	PROJ. NO: 23049	FILE NAME: 23049FM404	
APPROVED BY: J.E.B.	FILE NAME: 23049FM404	SHEET NUMBER:	
FM4.04			

ISSUED FOR PERMIT

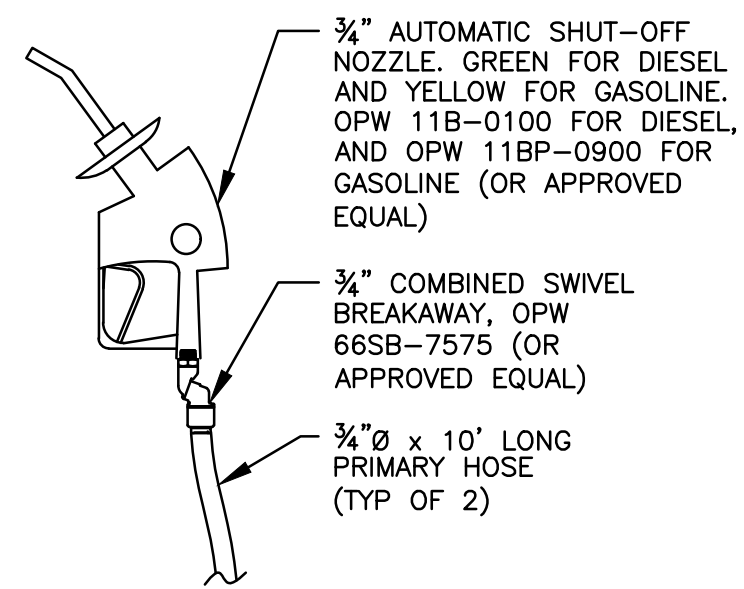
A B C D E F G H I J K L

MOGAS AND DIESEL PUMPS & DISPENSER SCHEDULE									
PRODUCT	FLOW RATE	VOLTS	PHASE	FREQ.	HOSES	TYPE	MOTORS	METERS	MAKE/MODEL (NO ALTERNATES)
MOGAS	±22 GPM	120VAC	SINGLE	60 HZ	TWIN	PUMP	(2) 1HP	(2) GILBARCO CFT	GASBOY ATLAS 8853KTW2 REQUIRED OPTIONS: PULSE OUTPUT, NON-SETTABLE 7-DIGIT TOTALIZER, AND HIGH HOSE RETRACTORS.
DIESEL	±22 GPM								



DOUBLE FRONT LOAD DISPENSER - FRONT VIEW

1 PROPOSED MOGAS AND DIESEL DISPENSER WITH CONTAINMENT SUMP
FM2.10 FM4.05 SCALE: NONE



2 TYPICAL HANGING HARDWARE & NOZZLE
FM4.05 FM4.05 SCALE: NONE

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
DISPENSER DETAILS & SPECIFICATIONS

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

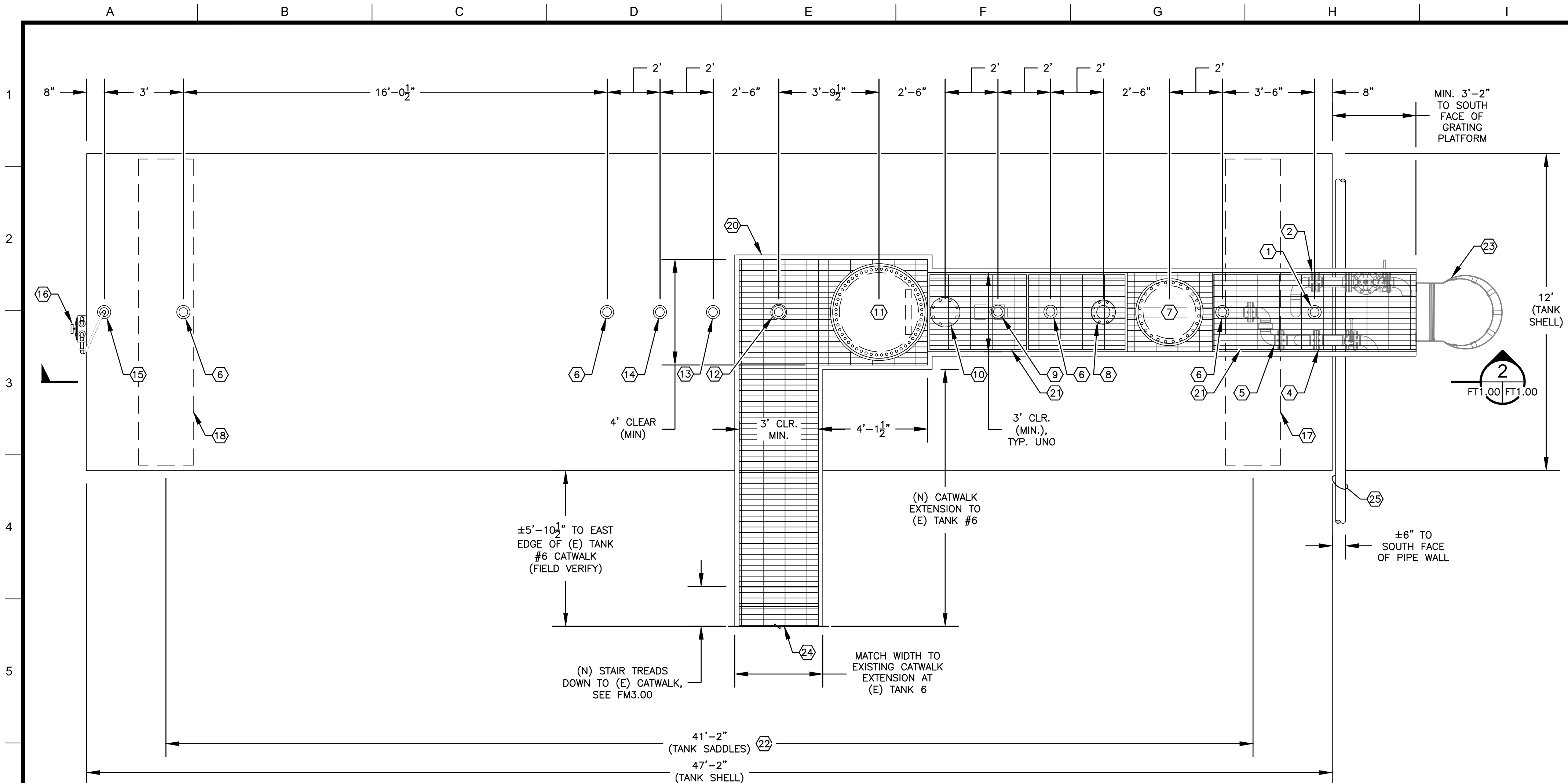
SEAL:

JEFFREY E. BURNS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
92872 - EXPIRES 2/28/2025

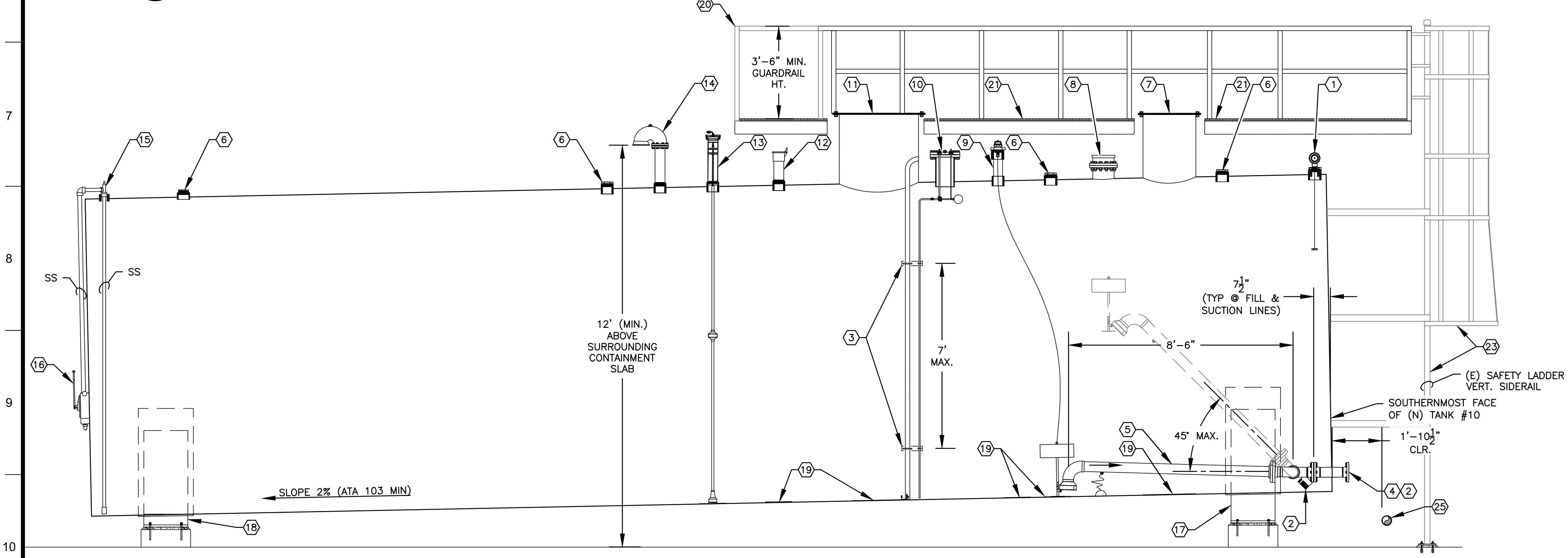
DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049FM405
SHEET NUMBER:

FM4.05

ISSUED FOR PERMIT



1 PROPOSED 40K-GAL. JET-A TANK #10 - PLAN
 FT1.00 SCALE: 1"=3'



2 PROPOSED 40K-GAL. JET-A TANK #10 - ELEVATION (LOOKING EAST)
 FT1.00 SCALE: 1"=3'

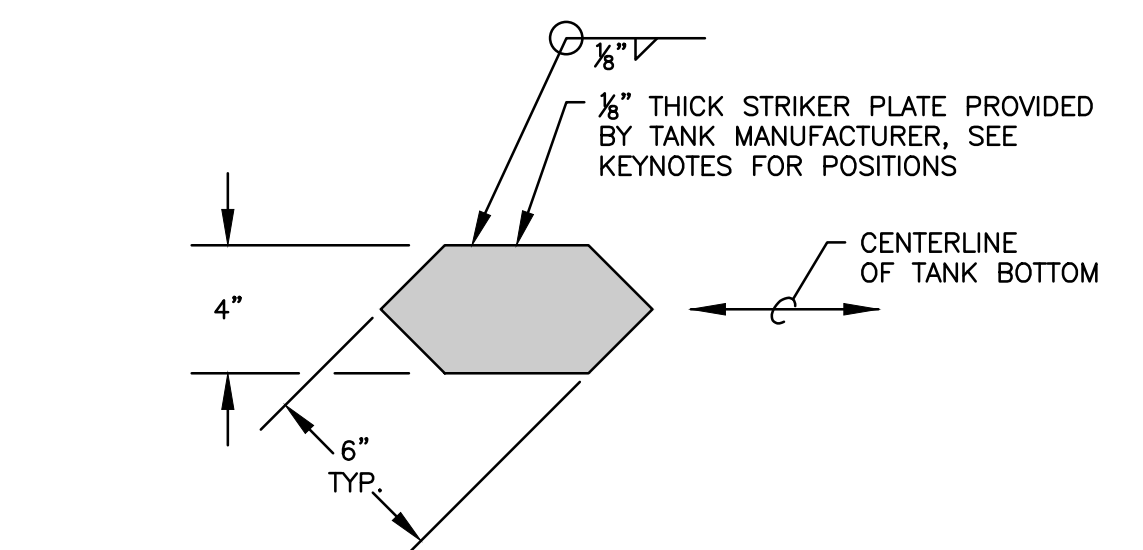
- KEYNOTES:**
- 4" BUNG WITH 4"x2" THREADED REDUCING BUSHING FOR MORRISON BROS CLOCK GAUGE, SEE DETAIL 1/FT4.00
 - DBL FLG TANK FILL NOZZLE, WITH INTERNAL INLET DIFFUSER (SEE DETAIL 1/FT4.01) AND EXTERNAL 4" OVERFILL PREVENTION VALVE WITH CHECK FEATURE
 - HIGH LEVEL SHUT-OFF FLOAT CONTROL TUBING SUPPORTS, SEE DETAILS 3/FT4.01
 - DBL FLG TANK SUCTION NOZZLE
 - SCHULTZ MODEL SC-7804 FLOATING SUCTION WITH ANTI-VORTEX INLET AND STAINLESS-STEEL WIRE & TURNBUCKLE, TURNBUCKLE AND GROMMETS TO RESTRICT TRAVEL OF THE FLOATING SUCTION ARM TO 45-DEG, SEE DETAIL 4/FT4.00, AND COORDINATE WITH SELECTED MANUFACTURER
 - SPARE 4" BUNG WITH 4" PLUG
 - 24" MANWAY, SEE DETAIL 3/FT4.00
 - 10" FLG PRIMARY EMERGENCY VENT, SEE DETAIL 5/FT4.01
 - 4" BUNG WITH FLOATING SUCTION VERIFICATION TETHER, SEE DETAIL 5/FT4.00
 - 8" FLG NOZZLE FOR EMERGENCY HIGH LEVEL FLOAT CONTROL PILOT AND TESTER ASSEMBLY, SEE DETAIL 6/FT4.00
 - 36" MANWAY WITH S.S. ACCESS LADDER, SEE DETAIL 3/FT4.00
 - 4" BUNG WITH GAUGE HATCH WITH REMOVABLE PLATE COVER, SEE DETAIL 2/FT4.00
 - 4" BUNG WITH MAGNETOSTRICTIVE LEVEL PROBE, SEE DETAIL 5/FT4.01
 - 4" BUNG FOR RISER FOR ATMOSPHERIC VENT, SEE DETAIL 4/FT4.01
 - 4" BUNG FOR 1" S.S. TANK SUMPING CONNECTION AND ANTI-SIPHON VALVE, SEE DETAIL 7/FT4.01
 - POSITIVE DISPLACEMENT HAND PUMP EXTENDED TO GROUND LEVEL FOR TANK SUMPING, SEE DETAIL 1/FT4.02
 - HIGH SIDE TANK SADDLE, SEE DETAILS 2 & 3/FT4.02
 - LOW SIDE TANK SADDLE, SEE DETAILS 2 & 3/FT4.02
 - STRIKER PLATES INSTALLED DIRECTLY UNDER SPECIFIED TANK NOZZLES, SEE DETAIL 3 ON THIS SHEET
 - CATWALK WITH SQ. TUBE RAILING (SEE CATWALK NOTES BELOW). SEE FM3.00 FOR CATWALK EXTENSION TO (E) TANK #6
 - REMOVABLE GRATING SHALL ALLOW ACCESS TO TANK APPURTENANCES.
 - FINAL TANK SADDLE-TO-SADDLE DIMENSIONS SHALL BE SUBMITTED FOR ENGINEER REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CENTER THE THICKENED SLAB FOUNDATION UNDER THE CENTERLINE OF THE SADDLE, COORDINATE PRIOR TO POURING CONCRETE.
 - RELOCATE TANK #6 SAFETY LADDER WITH CAGE TO SOUTH END OF PROPOSED TANK #10 (SIDERAIL LENGTH & NUMBER OF RUNGS OF (E) LADDER SHALL BE EVALUATED ON SITE FOR NECESSARY MODIFICATIONS). FINAL LOCATION OF SAFETY LADDER SHALL BE FIELD VERIFIED PER THE CRITERIA ON THIS SHEET
 - CATWALK EXTENSION TO (E) TANK #6 CATWALK
 - PROPOSED PIPING TO NEW EAST LOADING POSITION. PIPING SHALL BE LOCATED BETWEEN AND CLEAR OF RELOCATED SAFETY LADDER AND THE SOUTHERNMOST FACE OF (N) TANK #10, SEE SHT. FM3.00

- NOTES:**
- CATWALK PARTIALLY SHOWN FOR CLARITY
 - CONTRACTOR SHALL SUBMIT DIMENSIONED MANUFACTURER TANK DRAWINGS INCLUDING POSITIONS OF APPURTENANCES, CATWALK SUPPORTS, DIMENSIONS OF FLOATING SUCTION, TANK FILL RISER, GAUGE HATCH RISER, & TANK SADDLES (INCLUDING ALLOWANCES FOR THE SLOPE OF THE TANK)

CATWALK NOTES

- CONTRACTOR SHALL HIRE A FLORIDA REGISTERED PROFESSIONAL STRUCTURAL ENGINEER TO COMPLETE THE FINAL SIGNED AND SEALED CATWALK AND CATWALK EXTENSION DESIGNS AS OUTLINED AND SCOPED IN THESE PLANS INCLUDING BUT NOT LIMITED TO HOT-DIPPED GALVANIZED STRUCTURAL MEMBERS, HAND RAIL, TOE BOARD, AND CLIPPED-DOWN GRIP STRUT GRATING. THE FINAL DESIGN SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL BEFORE FABRICATION AND INSTALLATION.
- CATWALK SHALL BE A MINIMUM OF 36" WIDE WITH A 48"x48" AREA AROUND THE 36" MANWAY.
- THE CATWALK SHALL BE ORIENTED OVER THE CENTERLINE OF THE TANK AND SHALL INCLUDE REMOVABLE GRATING SECTIONS TO ALLOW ACCESS TO ALL TANK NOZZLES AND APPURTENANCES. THE LOCATIONS OF ALL CATWALK SUPPORT MEMBERS SHALL BE COORDINATED WITH THE NOZZLE LOCATIONS TO ENSURE NO CONFLICTS BETWEEN THE SUPPORT MEMBERS AND NOZZLES.
- CATWALKS SHALL BE DESIGNED IN ACCORDANCE WITH OSHA AND NFPA 101.

CONTRACTOR SHALL SUBMIT DIMENSIONED SHOP DRAWINGS FROM THE TANK MANUFACTURER FOR MECHANICAL & STRUCTURAL ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONC. FOUNDATION FORMWORK



3 STRIKER PLATE - PLAN
 FT1.00/FT1.00 SCALE: NONE

DATE	REVISIONS

CURRIER
 ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
 NAPLES AIRPORT (APF)
 ADD ALTERNATE #1
 PROPOSED 40K-GAL JET-A
 ABOVEGROUND STORAGE TANK (AST)
 TANK #10

ISSUED FOR PERMIT

CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD.,
 SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

SEAL:

JEFFREY E. BURNS
 LICENSED PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 No. 92872
 EXPIRES 2/28/2025

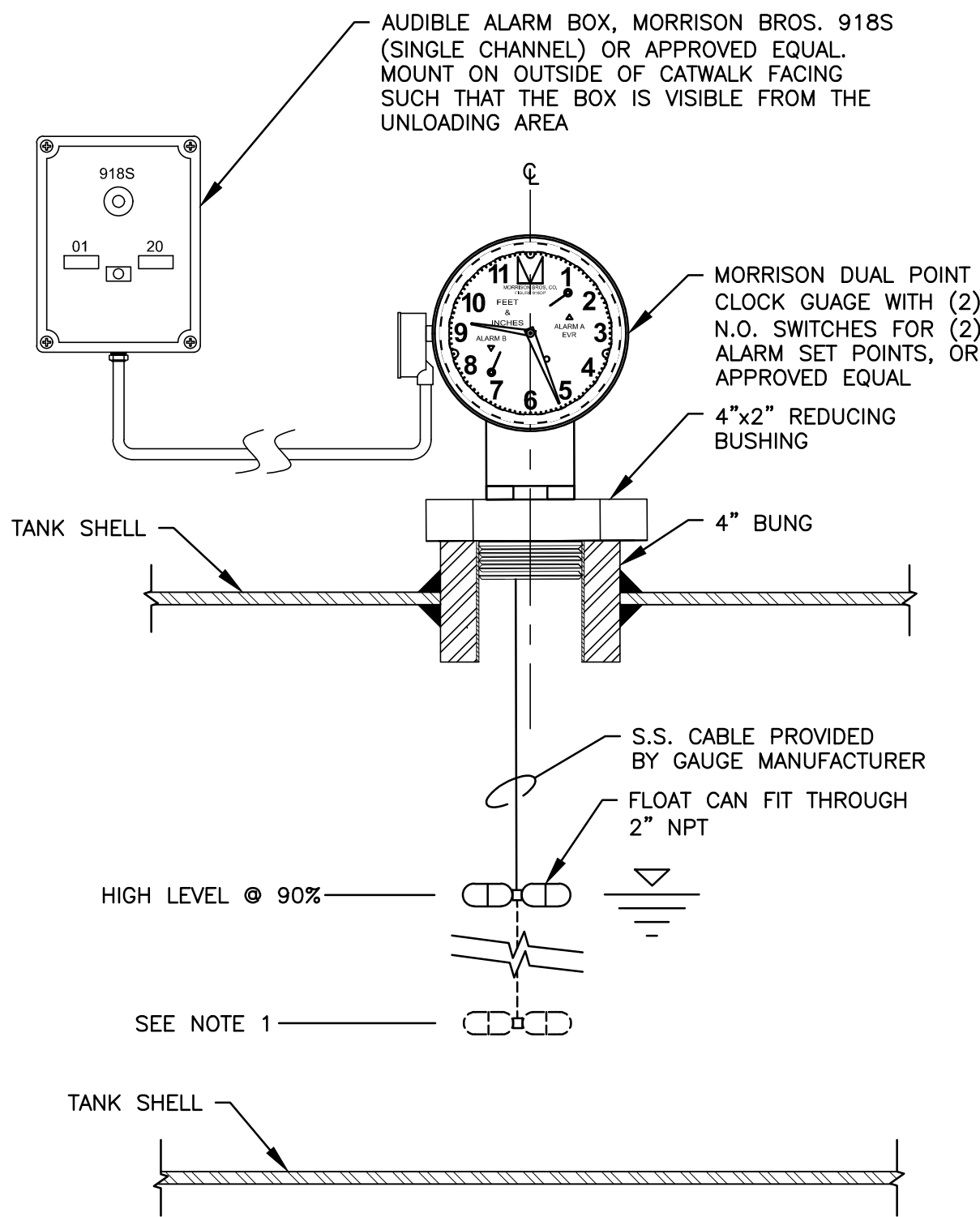
JEFFREY E. BURNS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: J.E.B. FILE NAME: 23049FT100
 SHEET NUMBER:

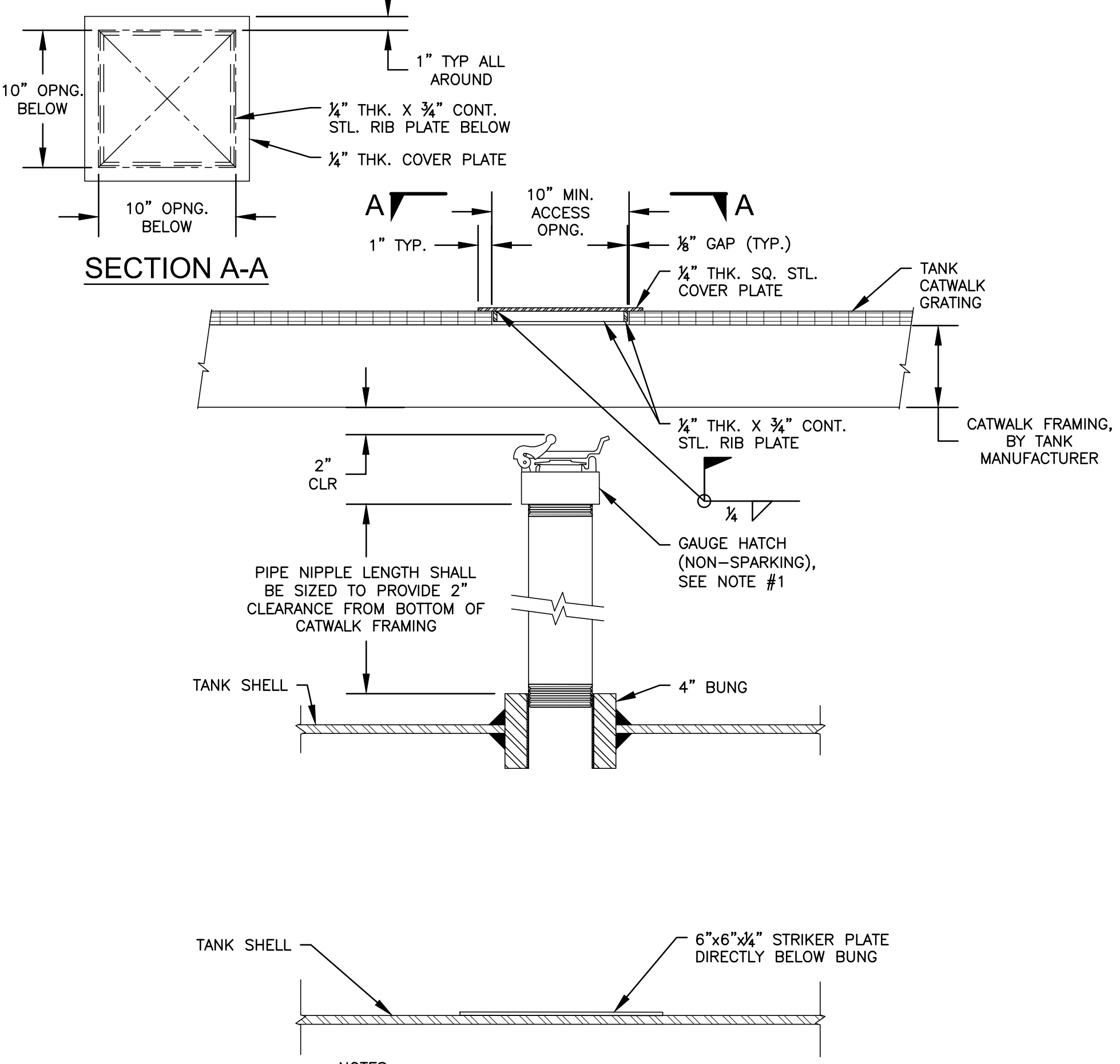
FT1.00

ISSUED FOR PERMIT

A B C D E F G H I J K L

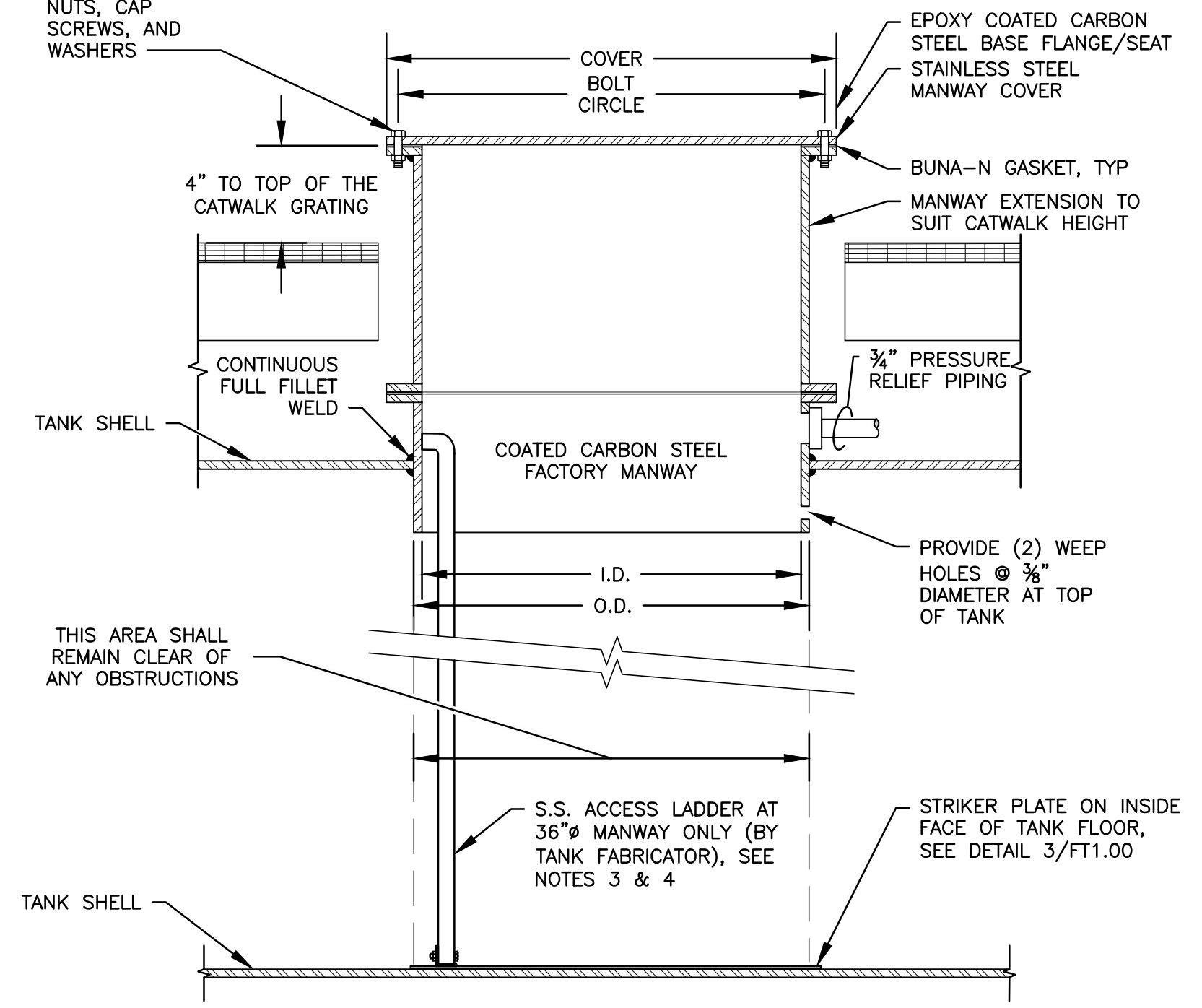


NOTES:
1. TANK LEVEL ASSIGNMENT SHALL BE DETERMINED AT TIME OF AN APPROVED TANK SUBMITTAL.



NOTES:
1. GAUGE HATCH SHALL BE SHAND & JUR'S MODEL 95021-81-32-51 OR APPROVED EQUAL.

MANWAY SIZING SCHEDULE				
O.D.	I.D.	COVER	BOLT CIRCLE	MIN. NO. OF BOLTS
24"	23 1/2"	28 1/2"	27"	24
36"	35 1/2"	40 1/2"	39"	52

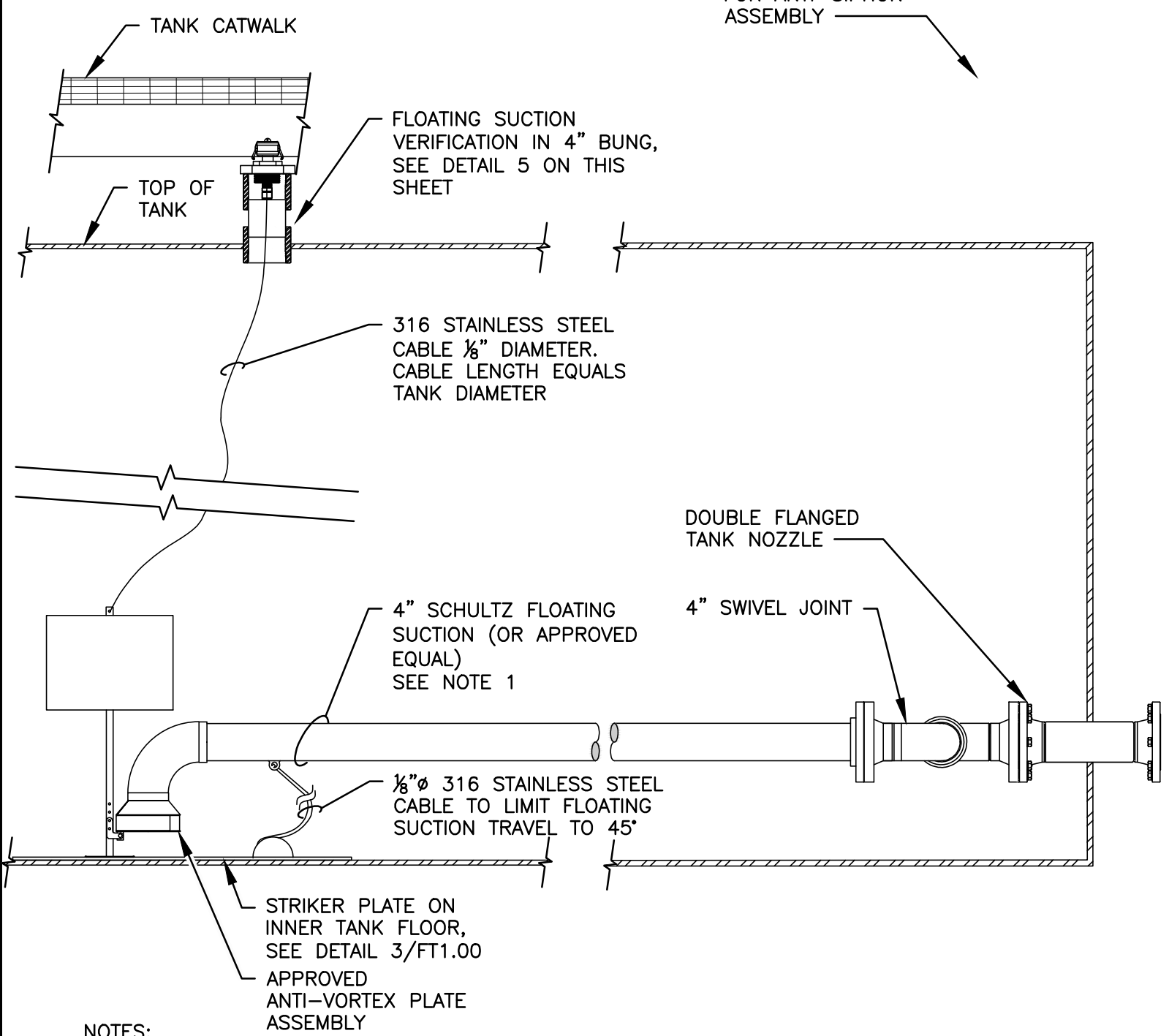


NOTES:
1. ALL MANWAY PLATE THICKNESSES ARE 1/4" (UNO)
2. BOLT HOLE SIZES AND BOLT DIAMETERS PER MANUFACTURER RECOMMENDATIONS
3. LADDER SHALL BE DESIGNED TO WITHSTAND A MINIMUM STATIC LOAD OF 1000-LBS FOR LADDERS WITH A CLIMB OF 10-FT OR LESS, OR 2000-LBS FOR LADDERS WITH A CLIMB GREATER THAN 10-FT, PER UL-142. LADDER SHALL BE EPOXY COATED CARBON STEEL OR 304 STAINLESS STEEL.
4. TANK FABRICATOR SHALL SUPPORT LADDER AT TOP AND BOTTOM

1 STANDARD LEVEL CLOCK GAUGE (+/- 1/8")
FT1.00/FT4.00 SCALE: NONE

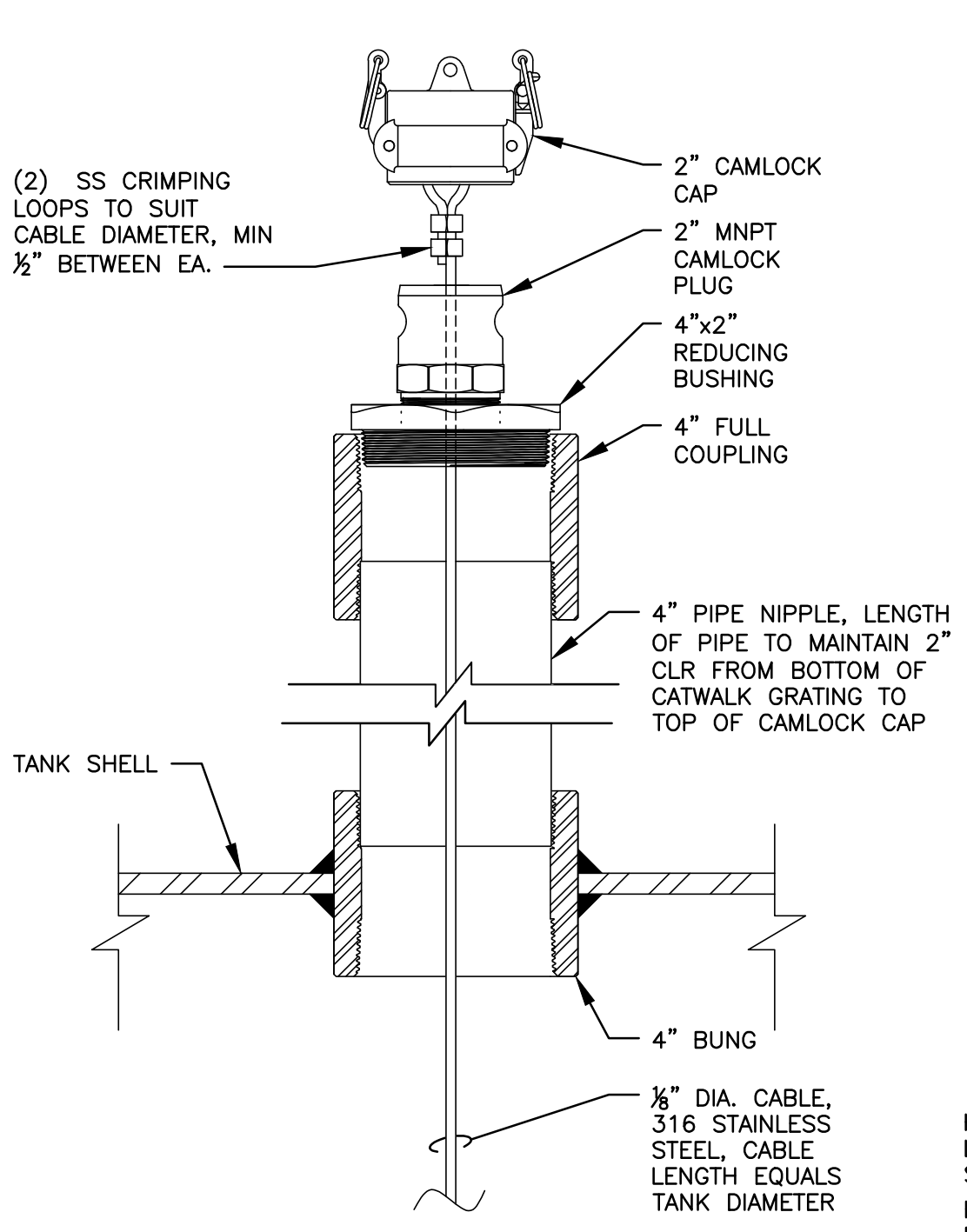
2 GAUGE HATCH
FT1.00/FT4.00 SCALE: NONE

3 TYPICAL MANWAY CONFIGURATION
FT1.00/FT4.00 SCALE: NONE

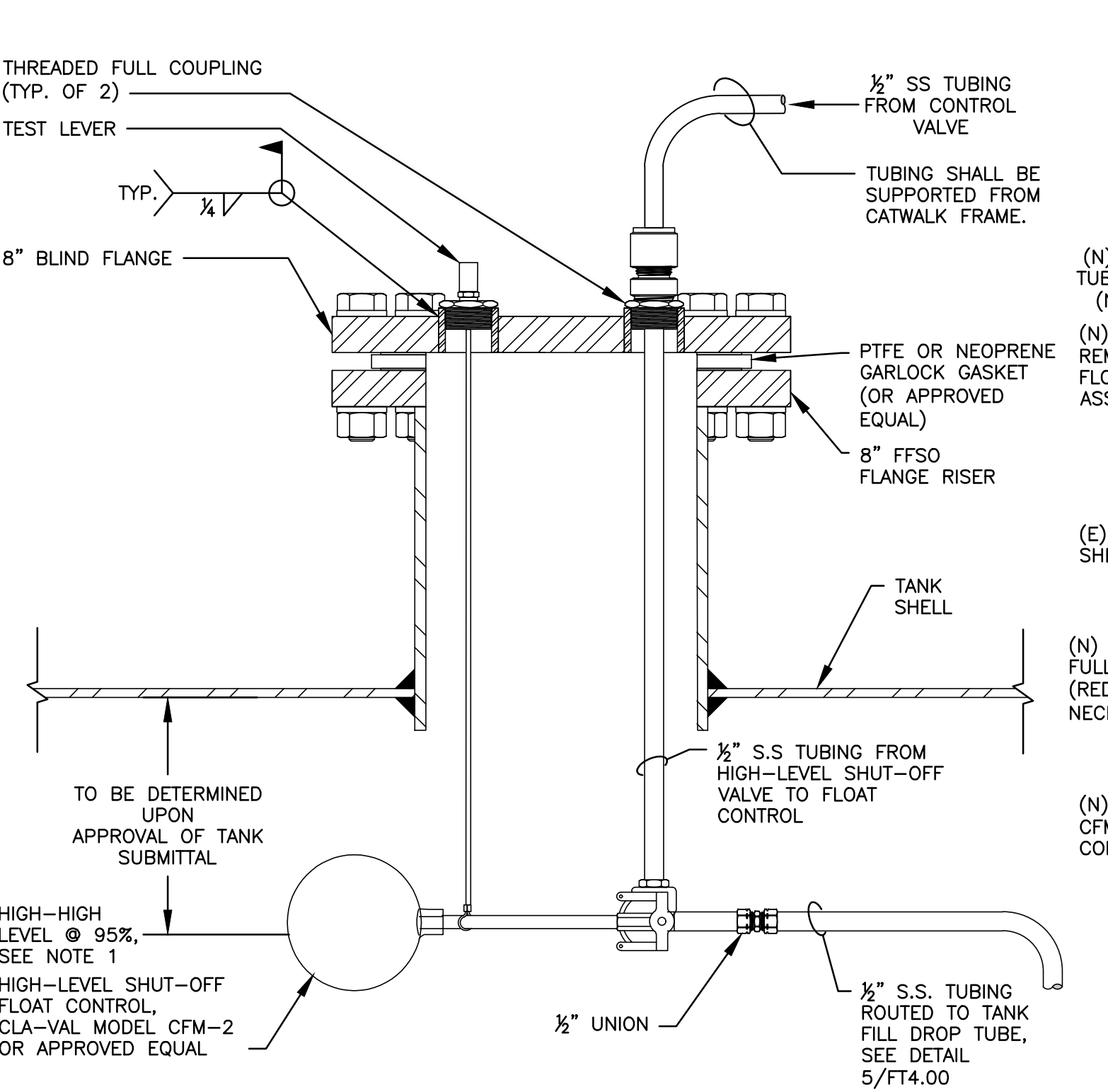


NOTES:
1. FLOATING SUCTION MANUFACTURER SHALL ROLL THE MOUNTING FLANGE SUCH THAT THE FLOATING SUCTION END SHALL SIT OVER THE CENTERLINE OF THE TANK.

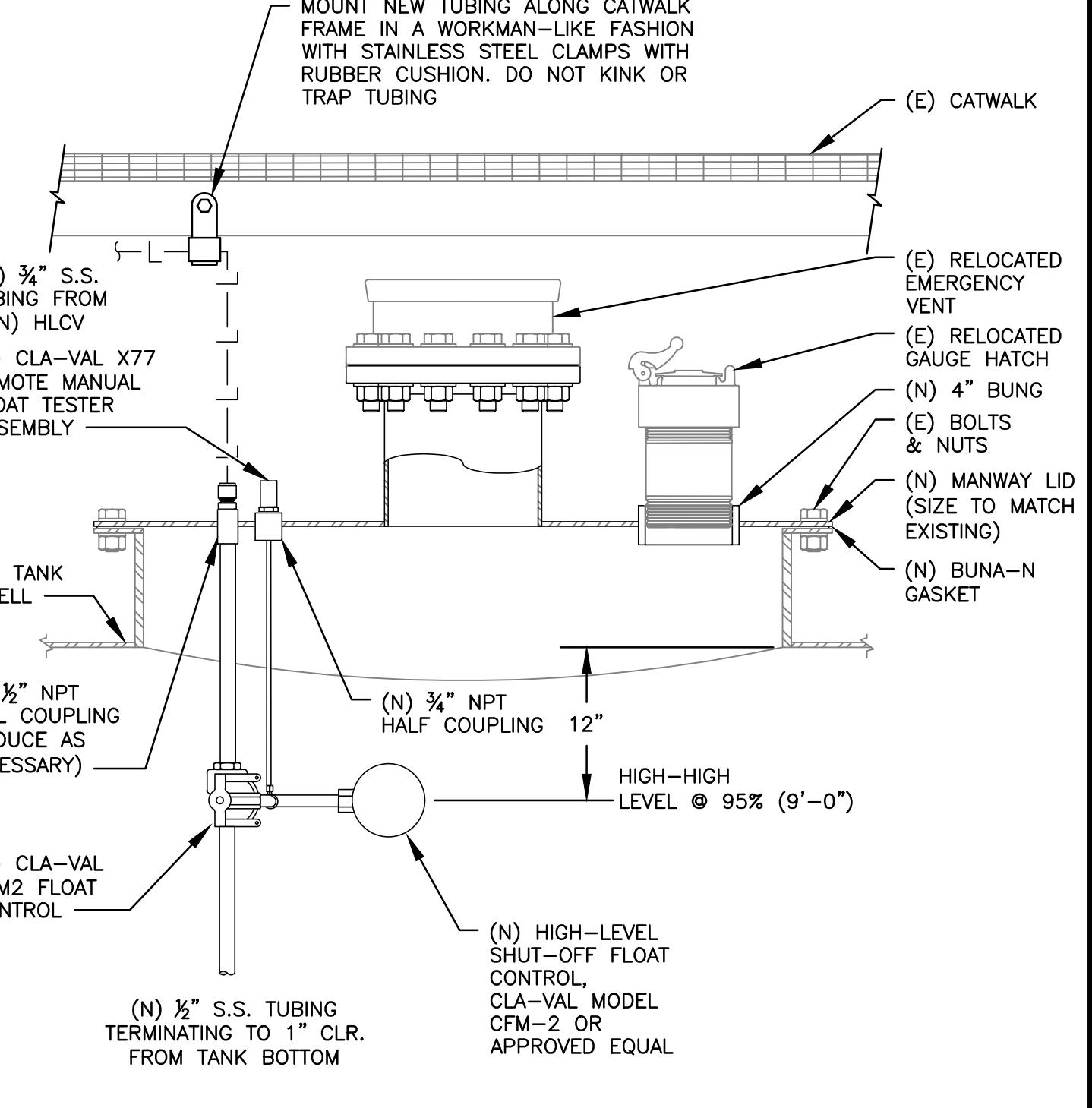
4 FLOATING SUCTION DETAIL
FT1.00/FT4.00 SCALE: NONE



5 FLOATING SUCTION VERIFICATION DETAIL
FT1.00/FT4.00 SCALE: NONE



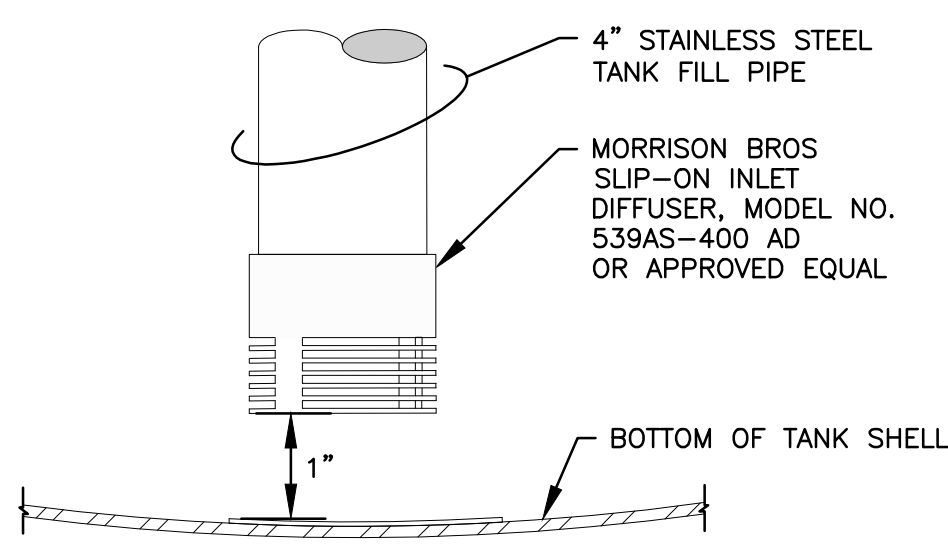
6 HIGH LEVEL SHUT-OFF FLOAT CONTROL
FT1.00/FT4.00 SCALE: NONE



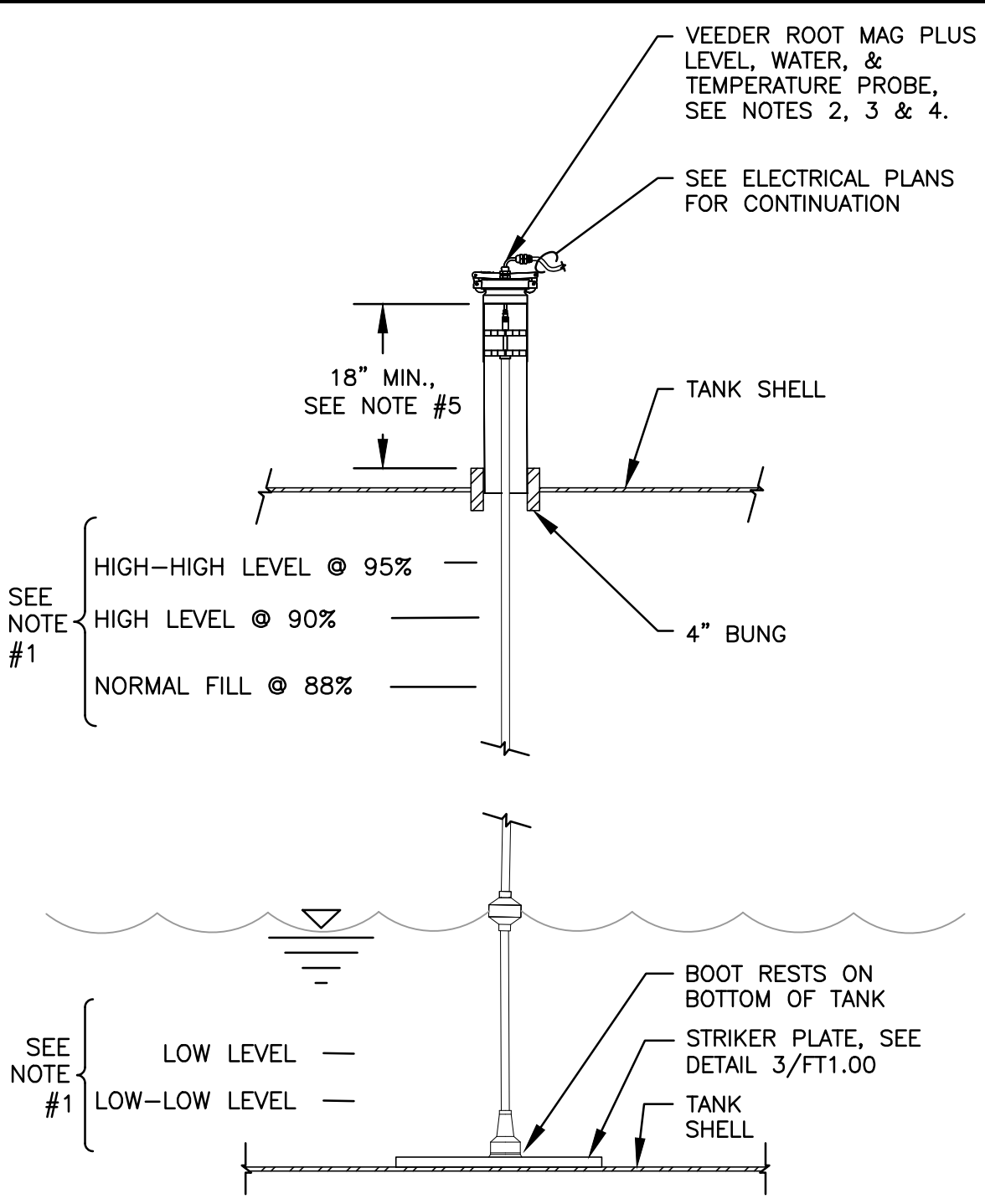
7 HIGH-LEVEL SHUT-OFF FLOAT CONTROL AT (E) TANK #4
FM1.03/FT4.00 SCALE: NONE

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) ADD ALTERNATE #1 TANK DETAILS SHEET 1	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
JEFFREY E. BURNS PROFESSIONAL ENGINEER STATE OF FLORIDA # 92872 - EXPIRES 2/28/2025 DESIGNED BY: J.E.B. DATE: 04/02/2024 DRAWN BY: M.G. PLOT NO: 23049 APPROVED BY: J.E.B. FILE NAME: 23049FT400 SHEET NUMBER:	
FT4.00	

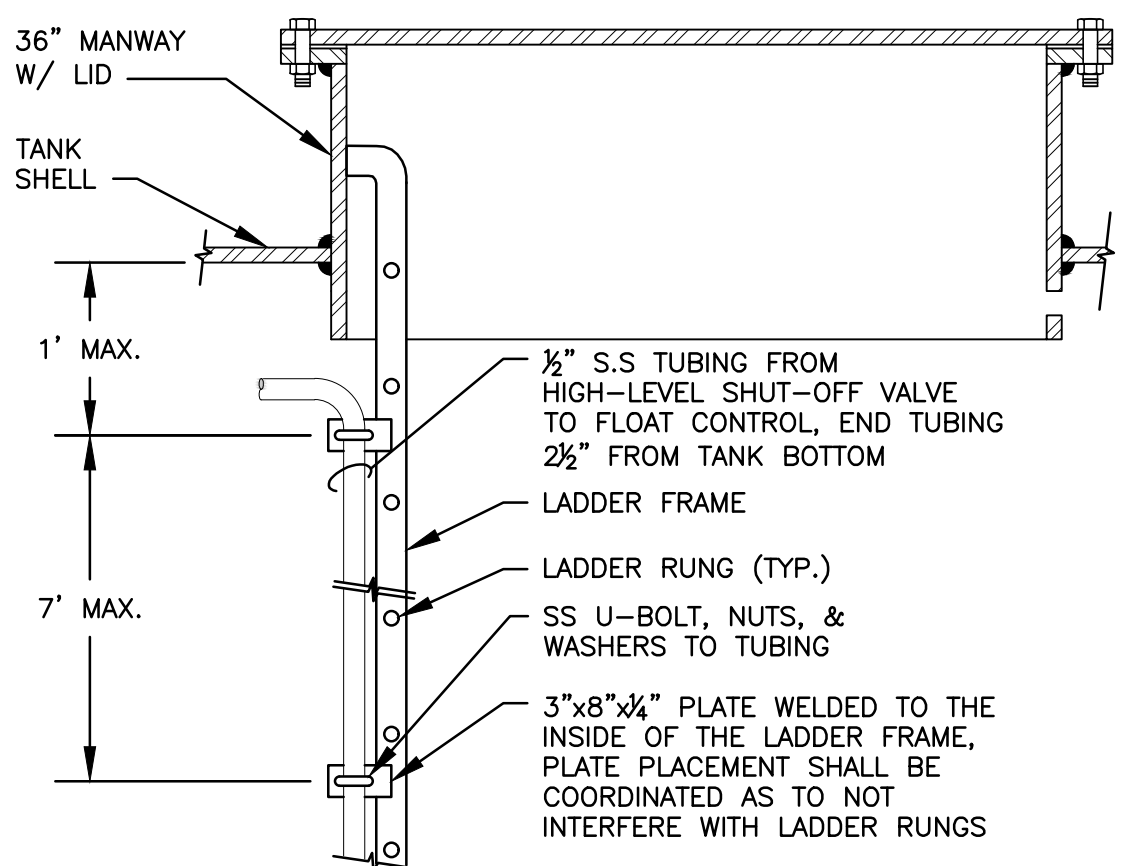
ISSUED FOR PERMIT



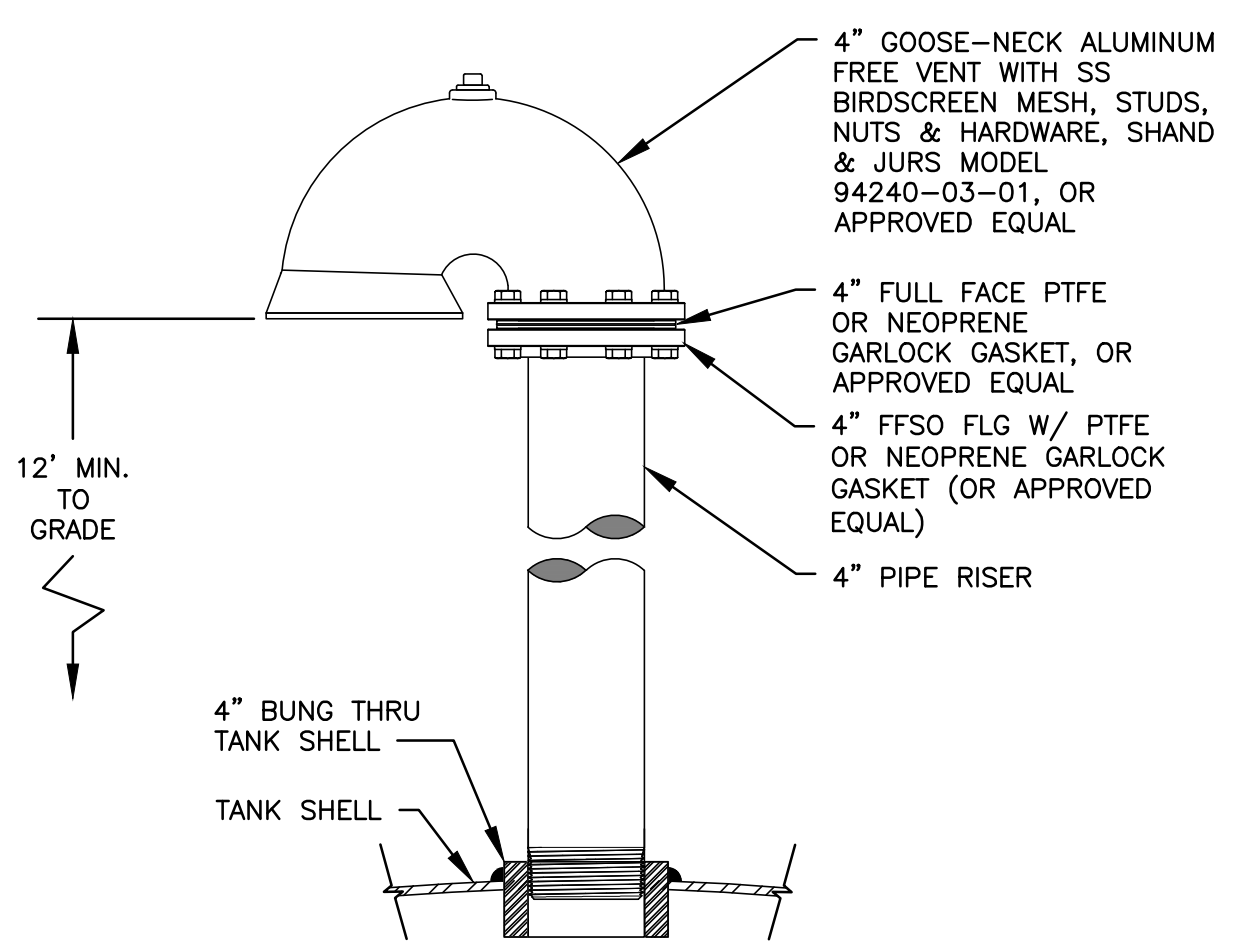
1 INLET PIPE DIFFUSER
 FT1.00/FT4.01 SCALE: NONE



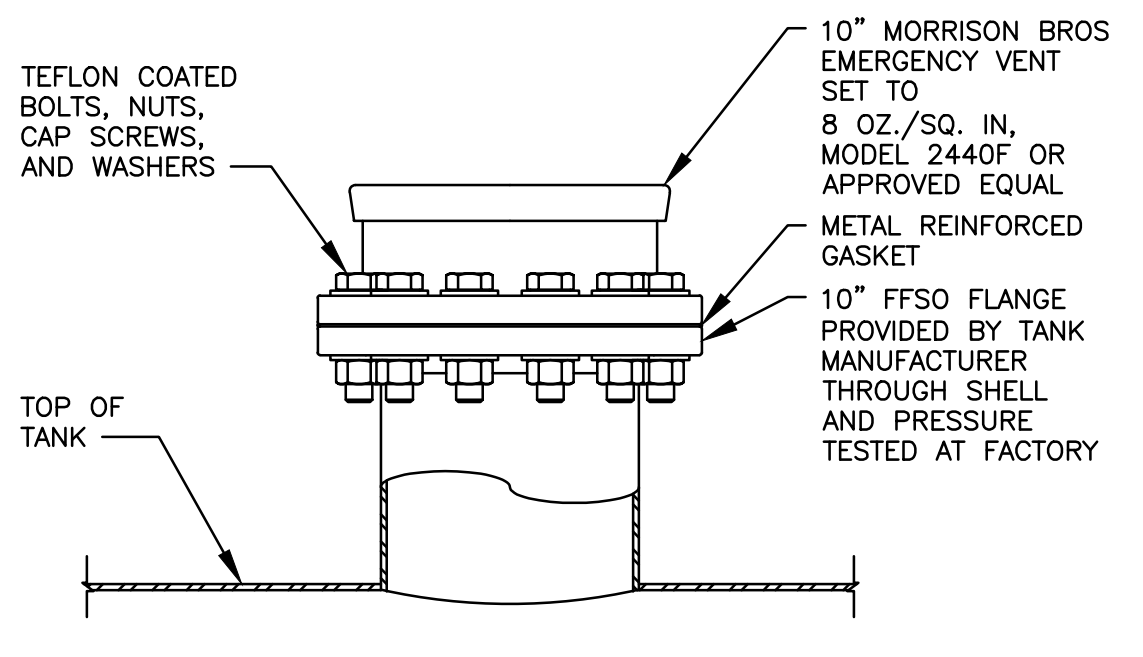
2 TANK GAUGING LEVEL PROBE
 FT1.00/FT4.01 SCALE: NONE



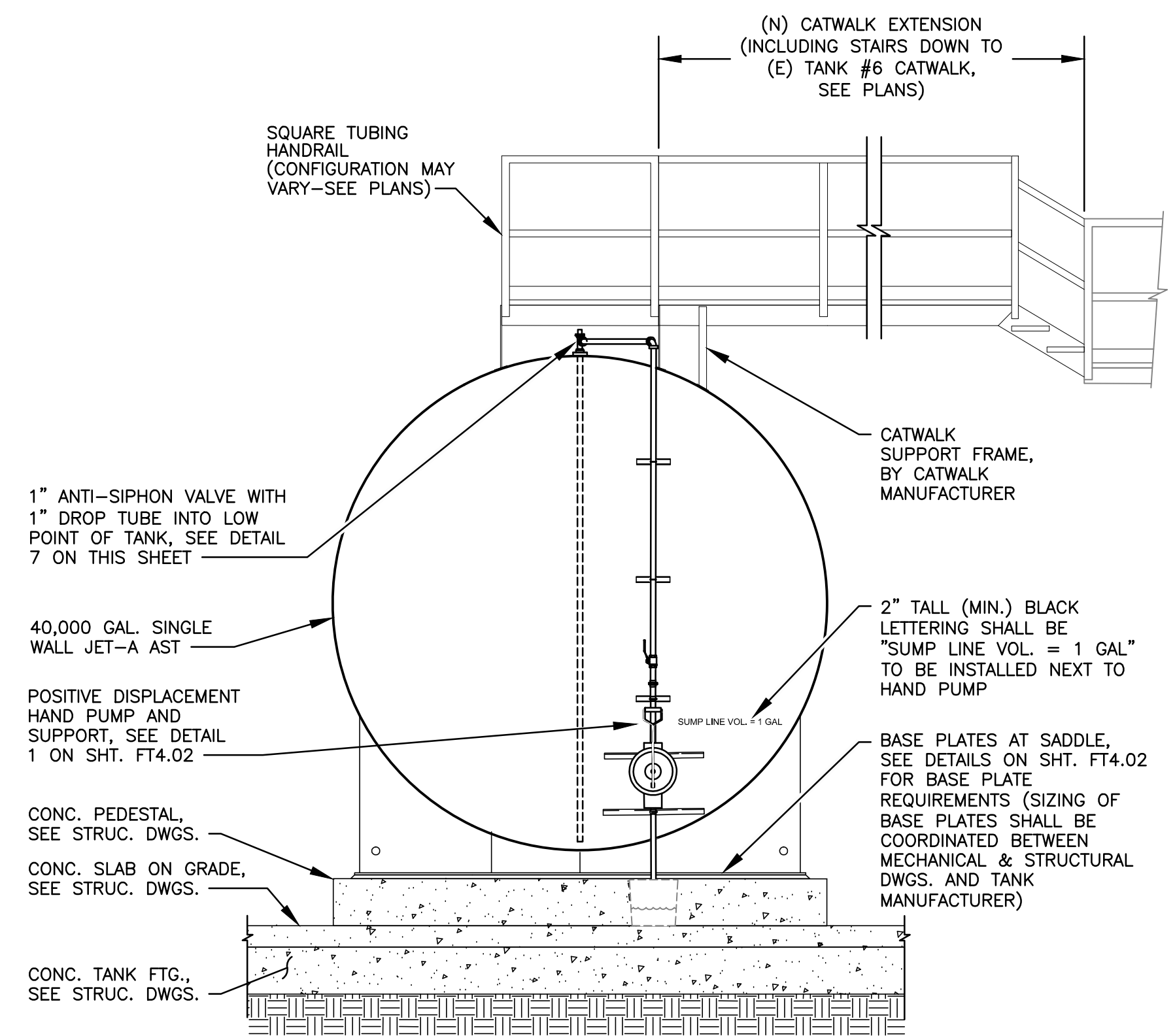
3 OVERFILL PREVENTION TUBING SUPPORT
 FT1.00/FT4.01 SCALE: NONE



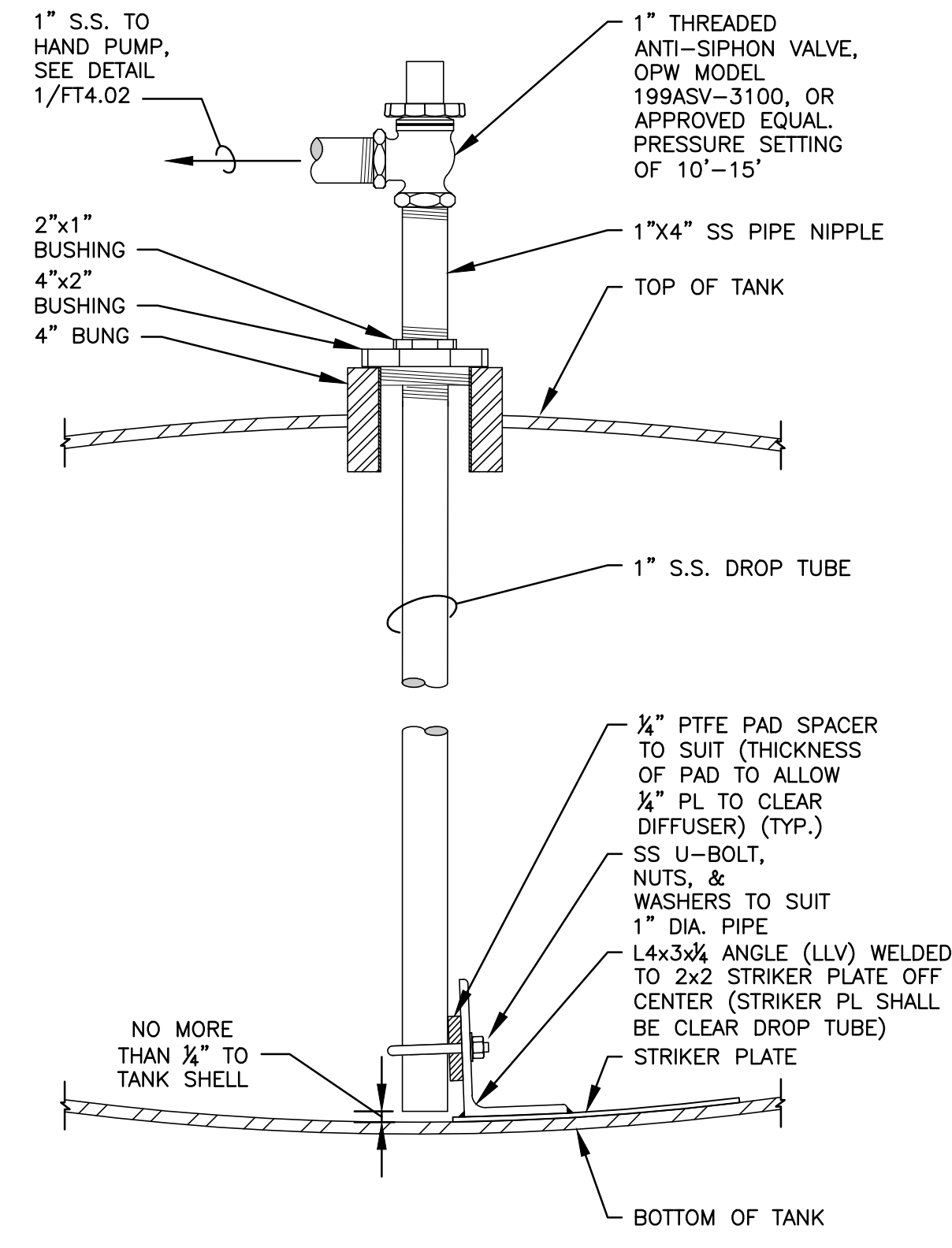
4 NORMAL TANK VENT
 FT1.00/FT4.01 SCALE: NONE



5 EMERGENCY VENT
 FT1.00/FT4.01 SCALE: NONE



6 HAND PUMP FOR BOTTOM SUMPS
 FT1.00/FT4.01 SCALE: NONE



7 1" LOW DRAIN PIPE
 FT1.00/FT4.01 SCALE: NONE

NOTES:
 1. TANK LEVEL ASSIGNMENTS SHALL BE DETERMINED AT THE TIME OF AN APPROVED TANK SUBMITTAL
 2. LEVEL PROBE: VEEDER ROOT 846397-312
 3. INSTALL KIT: VEEDER ROOT 312020-984
 4. CAP & RING KIT: VEEDER ROOT 312020-952
 5. COORDINATE FINISHED HEIGHT AS TO NOT INTERFERE WITH CATWALK FRAMING & GRATING

NOTES:
 1. UNLESS NOTED OTHERWISE THIS VENT DOES NOT NEED TO MEET CARB COMPLIANCE
 2. BODY CONNECTION TO MATCH RISER PIPE SPECIFIED FOR TANK

NOTES:
 1. UNLESS NOTED OTHERWISE THIS VENT DOES NOT NEED TO MEET CARB COMPLIANCE
 2. VENT SIZE AS NOTED PER SCHEDULE ON THIS SHEET

NOTES:
 1. SEE PLANS FOR ORIENTATION

DATE	REVISIONS

CURRIER
 ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
 NAPLES AIRPORT (APF)

ADD ALTERNATE #1
 TANK DETAILS
 SHEET 2

ISSUED FOR PERMIT

CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

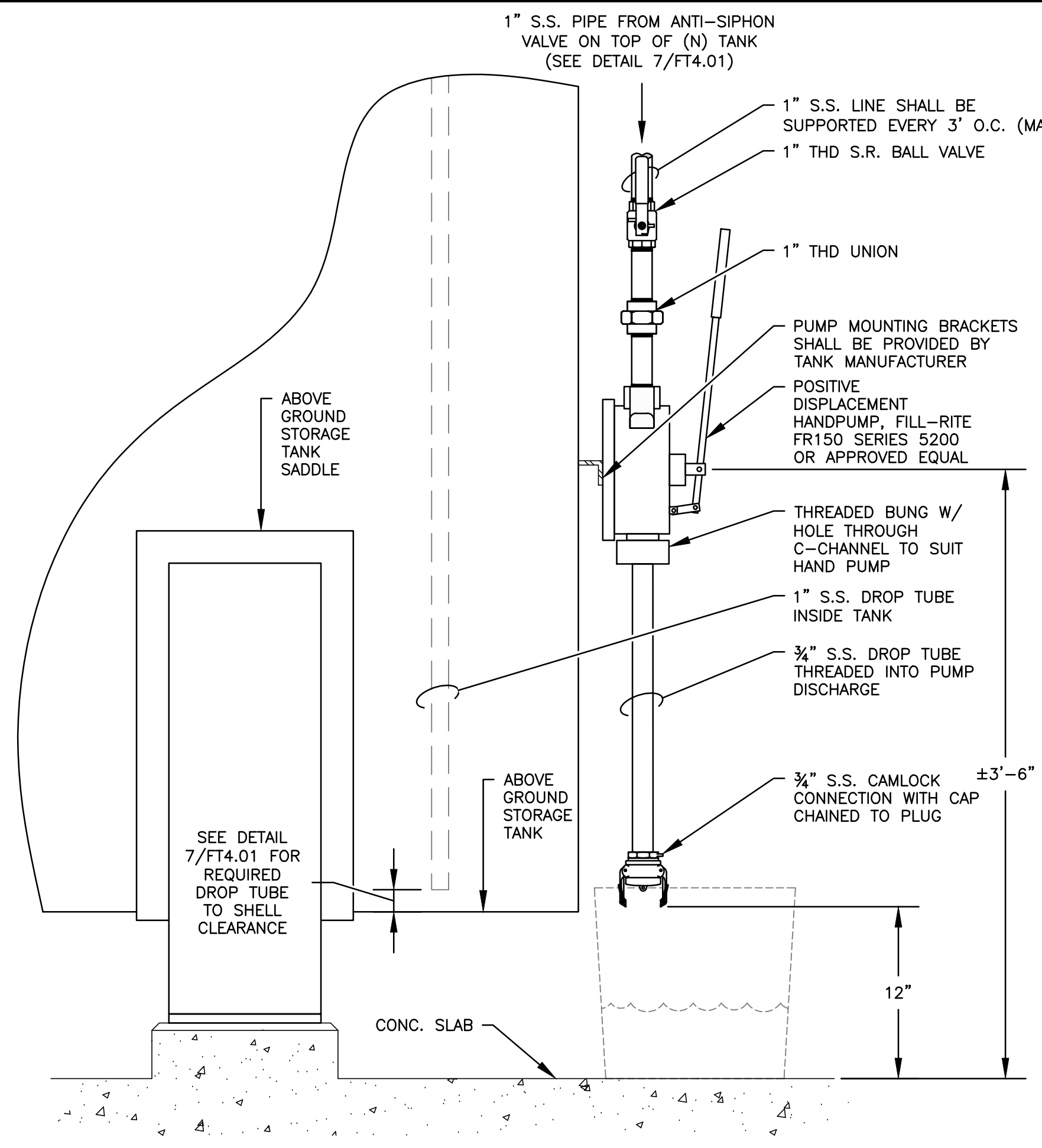
SEAL: **JEFFREY E. BURNS**
 LICENSE NO. 92872
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 07/07/2024

JEFFREY E. BURNS
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 92872 - EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: J.E.B. FILE NAME: 23049FT401

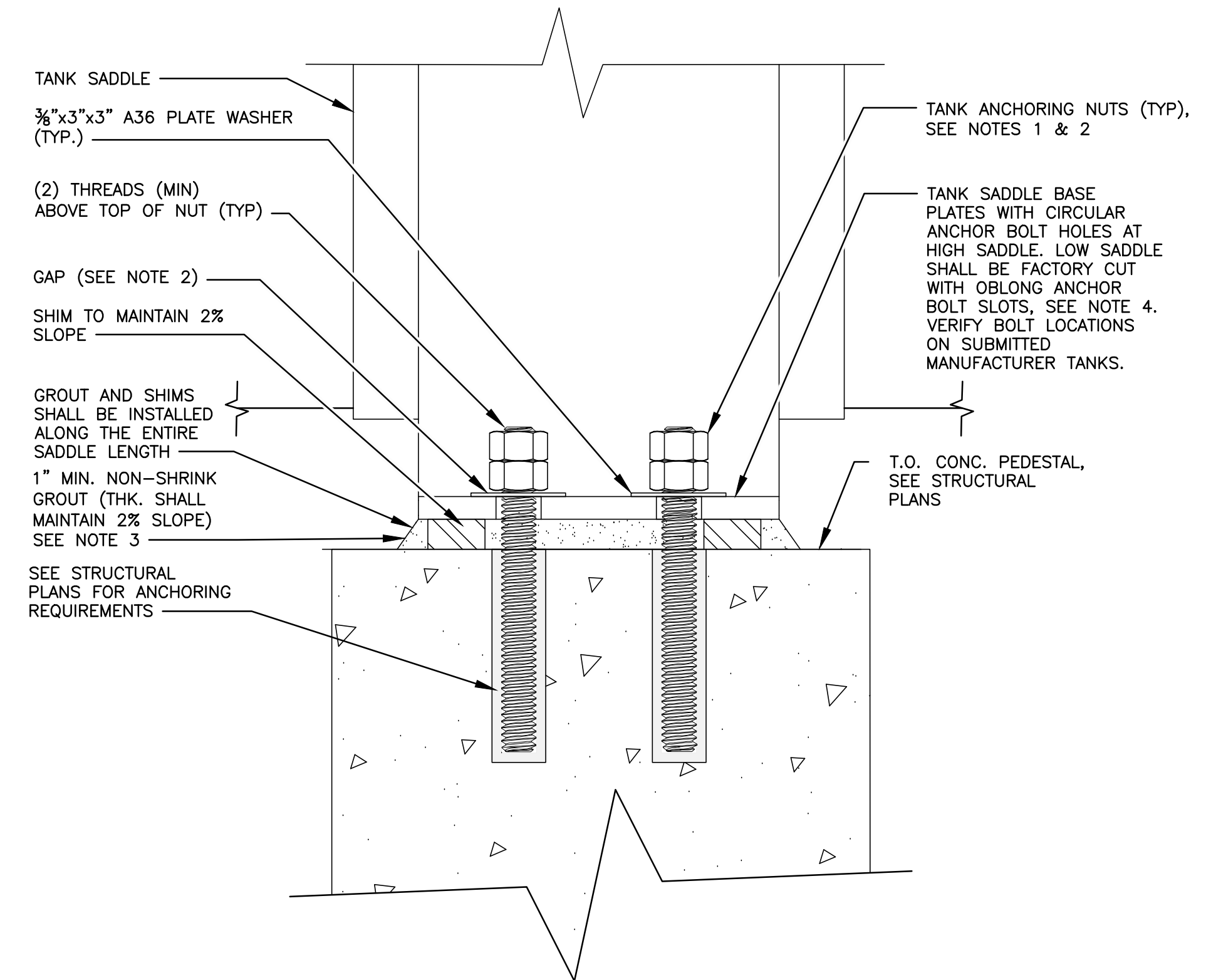
FT4.01

ISSUED FOR PERMIT



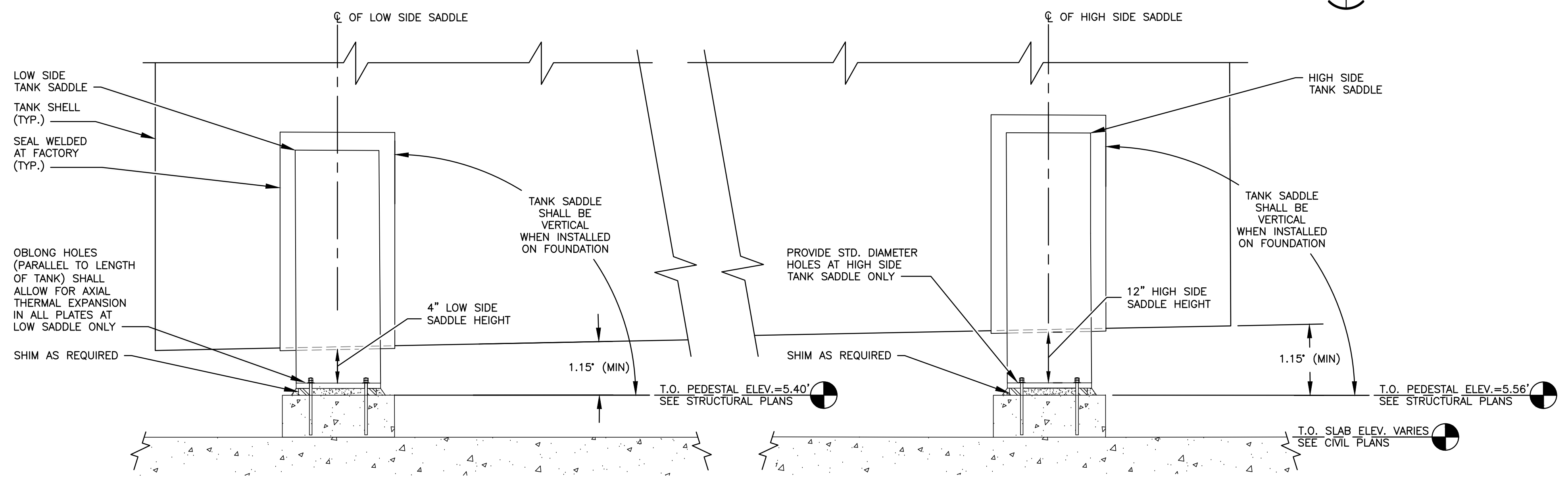
NOTES:
1. EPOXY PAINT U-BOLTS AND CHANNEL, ALL SIDES.
2. SEE DETAIL 6/FT4.01 FOR SUMP LINE VOLUME DETAILS

1 SUMP PUMP SUPPORT & INSTALLATION
FT1.00/FT4.02 SCALE: 1-1/2"=1'



NOTE:
1. HIGH SADDLE SHALL HAVE DOUBLE NUTS TIGHT TO SADDLE ANCHOR. FOR REQUIRED ANCHOR TYPE & SIZING, SEE STRUCTURAL PLANS
2. LOW SADDLE SHALL HAVE DOUBLE NUTS. FOR REQUIRED ANCHOR TYPE & SIZING, SEE STRUCTURAL PLANS
3. NON-SHRINK GROUT SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 5000 PSI
4. LOW SADDLE OBLONG HOLES IN BASE PLATES SHALL RUN PARALLEL TO LENGTH OF TANK.
5. COORDINATE BOLT LOCATIONS WITH MANUFACTURER BEFORE THE TANKS ARRIVE ON SITE. CONTRACTOR SHALL LAYOUT ANCHOR LOCATIONS USING EITHER A TEMPLATE FROM THE MANUFACTURER OR AS-BUILT DIMENSIONS.

2 TANK SADDLE ANCHORING DETAIL
FT1.00/FT4.02 SCALE: NONE



LOW SIDE SADDLE

HIGH SIDE SADDLE

NOTES:
1. SADDLE HEIGHTS ARE BASED ON NOMINAL PRIMARY TANK DIMENSIONS WITH THE SADDLES LOCATED AT 1/4 FROM THE END CAPS. SADDLE HEIGHTS SHALL BE FABRICATED AS NECESSARY TO SUIT THE SUBMITTED TANK TO MAINTAIN THE ATA 103 MINIMUM SLOPE OF 2%.
2. HIGH-SIDE TANK SADDLE SHALL NOT EXCEED 12-INCHES
3. DO NOT EPOXY COAT THREADS. COAT WITH GALVANIZING FIELD COATINGS
4. TOP OF SADDLE (THE SUPPORTING WEB) SHALL HAVE AN INCLINATION OF 2%, I.E. 1.05' FROM HORIZONTAL TO SUIT THE OVERALL ATA103 REQ'D TANK SLOPE OF 2% CREATED BY THE SADDLES AND STEEL SHIMS COMBINED

3 LOW & HIGH SIDE TANK SADDLE HEIGHTS FOR ABOVEGROUND STORAGE TANKS
FT1.00/FT4.02 SCALE: NONE

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

ADD ALTERNATE #1
TANK DETAILS
SHEET 3

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL: JEFFREY E. BURNS
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 92872
EXPIRES 2/28/2025

DESIGNED BY: J.E.B. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: J.E.B. FILE NAME: 23049FT402
SHEET NUMBER:

FT4.02

ISSUED FOR PERMIT

ONE-LINE & SCHEMATIC / CONTROL DIAGRAMS

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for connection, relay coil, contact, light, solenoid valve, torque switch, selector switch, programmable controller, timer, switches, limit switches, flow switches, level switches, push-buttons, terminal, horn, chassis ground, resistors, potentiometer, diodes, battery, shielded cables, motors, starters, fuses, disconnects, etc.

ONE-LINE & CONTROLS SCHEMATIC DIAGRAM

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for ammeter, ammeter switch, voltmeter, voltmeter switch, power meter, watt hour meter, kirk key interlock, surge suppression device, variable frequency drive, harmonic filter, solid state starter, overcurrent protective device, transformer, current transformer, potential transformer, thermal overload, ground connection, plug-in device, disconnect switch, fuse, variable frequency drive.

ELECTRIC SYMBOL LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for CCTV camera, card reader, emergency fuel shut-off, flow switch, flow transmitter, flame detection camera, solenoid valve coil, level display, level switch, level transmitter, leak detection pressure probe, pressure transmitter, resistance temperature probe, immersion heater, transmitter, water probe & relay, position switch, bearing vibration sensor, bearing overtemperature thermistor, pole mounted exterior area light, stanchion, manhole, handhole, pullbox, static grounding reel, personnel static grounding point, security camera, pole mounted exterior twin flood lights, battery powered LED flood-light.

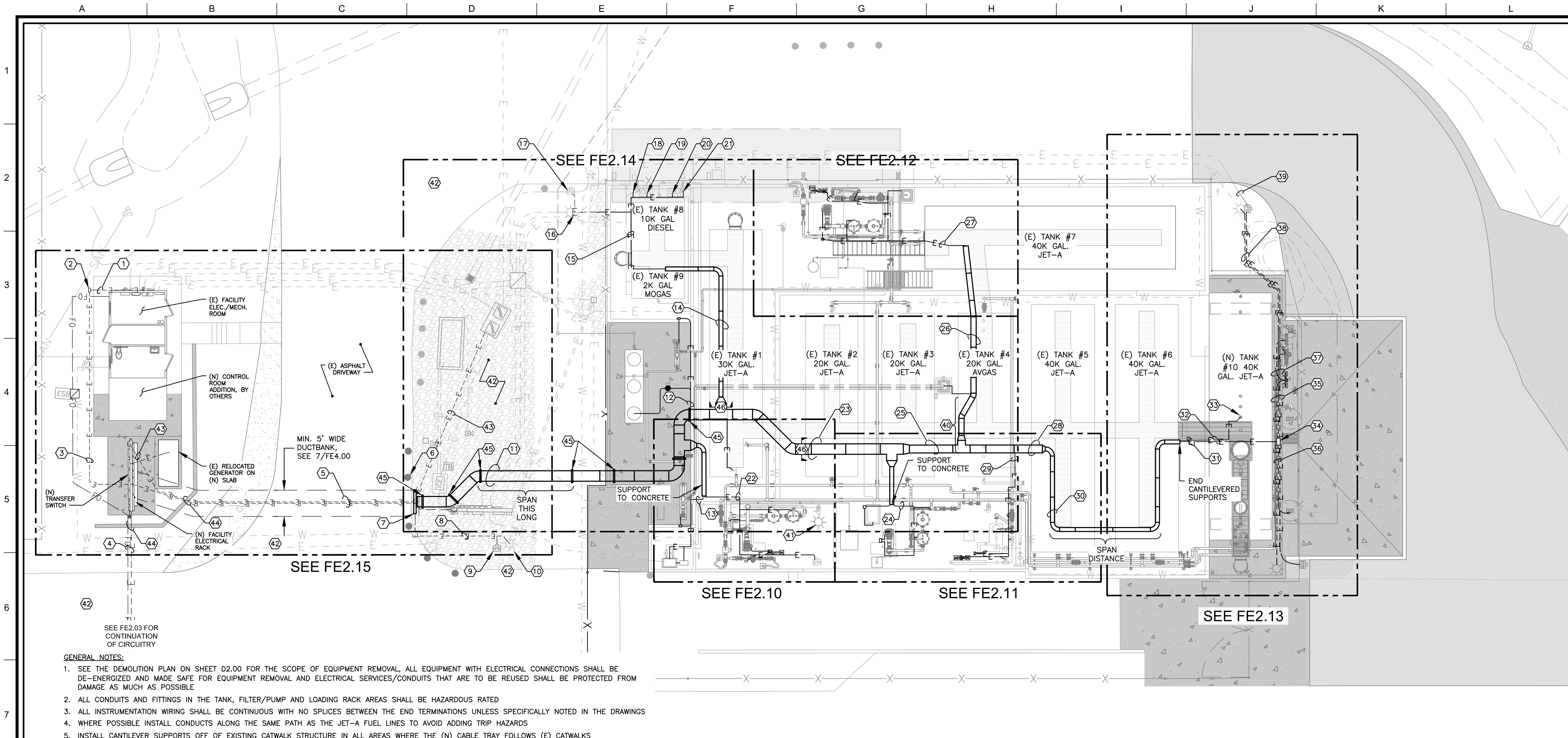
ELECTRIC SYMBOL LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION, MTG. HT. Includes symbols for single pole single throw toggle switch, two single pole single throw switches & ballast combination, three-way toggle switch, S.P.S.T. key type toggle switch, wall box dimmer switch, single receptacle outlet, duplex receptacle outlet, double duplex receptacle outlet, special purpose receptacle outlet, junction box, telecommunications outlet, double duplex receptacle outlet with counter, horizontal directional drilled conduit, arrowhead, circuit continuation, raceway symbols, conduit symbols, electrical ductbank, resistance heater, explosion proof conduit seal, grounding cable, ground bond connection, ground rod, lightning protection system, equipment, flush mounted panelboard, surface mounted panelboard, dry type transformer, motor with fractional horsepower indicator, motor rated manual switch, motor rated manual starter switch, non-fusible disconnect switch, fusible disconnect switch, magnetic motor starter, combination magnetic motor starter & disconnecting means, variable speed solid state starter, general use snap switch, motor rated switch, push button.

GENERAL ELECTRICAL NOTES (APPLIES TO ALL ELECTRICAL SHEETS):
1. NOT ALL SYMBOLS INDICATED IN THE SYMBOLS SCHEDULES ARE INCLUDED IN THIS PROJECT.
2. ALL KNOWN EXISTING UNDERGROUND UTILITIES ARE INDICATED AND SHOWN ON THE CONTRACT DRAWINGS...
3. CONTRACTOR SHALL VERIFY, BEFORE INITIATING EXCAVATIONS, THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES...
4. ALL WORK IN THE AREA OF EXISTING INFRASTRUCTURE SHALL BE ACCOMPLISHED WITH THE GREATEST OF CARE.
5. DAMAGE TO ANY AND ALL KINDS OF EXISTING UTILITIES RESULTING FROM THE CONTRACTOR'S WORK SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY...
6. ANY EXISTING AND NEW CONTROL SYSTEM DESIGNS REPRESENTED IN THE CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE.
7. THE NEW SYSTEM DESIGN PRESENTED IN THE CONTRACT DOCUMENTS IS INTENDED TO INDICATE BASIC PERFORMANCE CRITERIA AND SCHEMATIC WIRING REQUIREMENTS...
8. SEE PLANS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES.
9. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS UNLESS SPECIFICALLY NOTED OTHERWISE.
10. THE EXISTING FUEL FACILITY AT NAPLES AIRPORT (APF) IS IN OPERATION ON A 24/7 BASIS WITHOUT ANY INTERRUPTION...
11. TEMPORARY MEASURES SHALL BE MADE BY CONTRACTOR TO SUPPORT ONGOING OPERATIONS...
12. ALL WORK SHALL BE PERFORMED BY THE CONTRACTOR IN A SAFE AND PRE-APPROVED FASHION DURING THE PROJECT.
13. ALL POWER CONDUCTORS ARE CALCULATED FOR THWN, COPPER 75°C (167°F).
14. CONDUIT SHALL BE AS SPECIFIED FOR THE SPECIFIC INSTALLATION APPLICATION.
15. CONTRACTOR SHALL INSTALL ALL SEAL OFFS IN ACCORDANCE WITH NFPA 70. LEAVE SEAL OFFS UN-SEALED UNTIL AFTER ENGINEER'S FINAL INSPECTION, CONTRACTOR SHALL SEAL AND TIGHTEN ALL SEAL OFFS BEFORE FINAL COMPLETION.
WARRANTY:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE TO OWNER A WARRANTY FOR ALL INSTALLED EQUIPMENT AND MATERIALS THAT IS EFFECTIVE FOR ONE FULL YEAR AFTER SUBSTANTIAL COMPLETION.
2. SUBSTANTIAL COMPLETION IS DEFINED AS THE POINT WHEN THE NEW TANK, PUMPS, FILTERS AND OTHER IMPROVEMENTS ARE OPERATIONAL ALONG WITH ALL ASSOCIATED ELECTRICAL AND CONTROL SYSTEMS ARE FUNCTIONAL, AND OPERATIONS ARE ROUTINELY PRACTICED BY THE OPERATOR AND THE NEW SYSTEMS HAVE BEEN ACCEPTED BY THE AHJ AND ENGINEER.
COORDINATION:
1. SEE PHASING PLANS IN G & FM SHEETS FOR COORDINATION REQUIREMENTS.
2. ALL DRAWINGS ARE COMPLIMENTARY CONTRACTOR SHALL COORDINATE ALL DISCIPLINES.

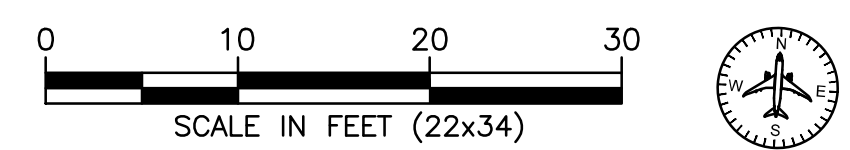
Project information block including: CURRIER ENGINEERING MANAGEMENT CONSULTING logo, Naples Airport logo, PROJECT NAME: FUEL FACILITY IMPROVEMENTS PROJECT, PROJECT LOCATION: NAPLES AIRPORT (APF), DRAWING NAME: ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES & SPECIFICATIONS, ISSUED FOR PERMIT, CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206, LOS ANGELES, CA 90066, (310) 279-5050, SEAL: DANIEL SCHIPMAN, LICENSE No. 00488, PROFESSIONAL ENGINEER, STATE OF FLORIDA, EXPIRES 02/28/2025, DATED: 04/02/2024, SHEET NUMBER: FE1.00

ISSUED FOR PERMIT



- GENERAL NOTES:**
- SEE THE DEMOLITION PLAN ON SHEET D2.00 FOR THE SCOPE OF EQUIPMENT REMOVAL, ALL EQUIPMENT WITH ELECTRICAL CONNECTIONS SHALL BE DE-ENERGIZED AND MADE SAFE FOR EQUIPMENT REMOVAL AND ELECTRICAL SERVICES/CONDUITS THAT ARE TO BE REUSED SHALL BE PROTECTED FROM DAMAGE AS MUCH AS POSSIBLE
 - ALL CONDUITS AND FITTINGS IN THE TANK, FILTER/PUMP AND LOADING RACK AREAS SHALL BE HAZARDOUS RATED
 - ALL INSTRUMENTATION WIRING SHALL BE CONTINUOUS WITH NO SPLICES BETWEEN THE END TERMINATIONS UNLESS SPECIFICALLY NOTED IN THE DRAWINGS
 - WHERE POSSIBLE INSTALL CONDUITS ALONG THE SAME PATH AS THE JET-A FUEL LINES TO AVOID ADDING TRIP HAZARDS
 - INSTALL CANTILEVER SUPPORTS OFF OF EXISTING CATWALK STRUCTURE IN ALL AREAS WHERE THE (N) CABLE TRAY FOLLOWS (E) CATWALKS

1 PROPOSED ELECTRICAL CONDITIONS PLAN



- KEYNOTES:**
- THE FOLLOWING CONDUITS AND CONDUCTORS SHALL BE INSTALLED THROUGH THE (E) GUTTERS OR CORED THROUGH THE WALL WITH (N) ELECTRICAL GUTTER SIMILAR TO THE EXISTING ENTRANCES AND SURFACE MOUNTED UNTIL THE EDGE OF THE SLAB: 3/4" CONDUIT WITH CIRCUIT C104, 1" CONDUIT WITH CIRCUIT C184, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231 AND 1" CONDUIT WITH CIRCUIT C250 (SEAL ALL WALL PENETRATIONS AROUND THE CONDUITS AT ENTRY POINTS)
 - INSTALL A SMALL ELECTRICAL GUTTER TO BE A PULL POINT AT THE CONDUIT TRANSITION TO THE UNDERGROUND
 - INSTALL THE FOLLOWING CONDUITS AND CONDUCTORS IN THIS DUCTBANK: 3/4" CONDUIT WITH CIRCUIT C104, 1" CONDUIT WITH CIRCUIT C184, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231, 1" CONDUIT WITH CIRCUIT C250 AND (2) 1" SPARES C260 & C261
 - THE CONTRACTOR SHALL SAW CUT, TRENCH AND INSTALL THE FOLLOWING CONDUITS IN A CONCRETE REINFORCED DUCTBANK UNDER THE ASPHALT: (2) 3/4" CONDUITS ACROSS THE (E) ASPHALT DRIVE AND COMPLETE THE TRENCH INSTALLATION TO THE MAIN ELECTRICAL RACK AND THE GATE OPERATOR AND LIGHT POLE AT THE GATE FOR CIRCUITS C107 & C233 AND TRENCH TO INSTALL A 1" CONDUIT FROM THE FUEL FACILITY'S ELECTRICAL ROOM TO THE FACILITIES BUILDING TO THE SOUTHWEST FOR CIRCUIT C251
 - THE CONTRACTOR SHALL SAW CUT AND TRENCH CONDUITS ACROSS THE (E) ASPHALT DRIVE FROM THE (N) ELECTRICAL RACK TO THE FACILITY TANK AREA. THE DUCT BANK UNDER THE ASPHALT PLUS 2' BEYOND ON EACH END SHALL BE ENCASED IN REINFORCED CONCRETE PER DETAIL 6 ON FE4.00. THE CONTRACTOR SHALL INSTALL THE FOLLOWING CONDUITS AND CONDUCTORS: 3" CONDUIT WITH CIRCUIT C101, 3/4" CONDUIT WITH CIRCUIT C108, 1" CONDUIT WITH CIRCUIT C109, 3" CONDUIT FOR TEMPORARY CIRCUIT C110, 1 1/2" CONDUIT WITH CIRCUIT C121, 1" CONDUIT WITH CIRCUIT C122, 1 1/2" CONDUIT WITH CIRCUIT C124, 1" CONDUIT WITH CIRCUIT C125, 1 1/2" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128, 1 1/2" CONDUIT WITH CIRCUIT C130, 1" CONDUIT WITH CIRCUIT C131, 1" CONDUIT WITH CIRCUIT C133, 1" CONDUIT WITH CIRCUIT C135, 1 1/2" CONDUIT WITH CIRCUIT C137, 1" CONDUIT WITH CIRCUIT C139, 1 1/2" CONDUIT WITH CIRCUIT C140, 1 1/2" CONDUIT WITH CIRCUIT C150, 1 1/2" CONDUIT WITH CIRCUIT C156, 1 1/2" CONDUIT WITH CIRCUIT C170, 3/4" CONDUIT WITH CIRCUIT C180, 3/4" CONDUIT WITH CIRCUIT C181, 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183, 1" CONDUIT WITH CIRCUIT C184, 3/4" CONDUIT WITH CIRCUIT C188, 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C192, 3/4" CONDUIT WITH CIRCUIT C194, 3/4" CONDUIT WITH CIRCUIT C196, 1" CONDUIT WITH CIRCUIT C199, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C210, 3/4" CONDUIT WITH CIRCUIT C212, 3/4" CONDUIT WITH CIRCUIT C220, 3/4" CONDUIT WITH CIRCUIT C222, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231, 1" CONDUIT WITH CIRCUITS C240 & C241, 1" CONDUIT WITH CIRCUIT C250, (2) 1" SPARE CONDUIT C260 & C261, (2) 1 1/2" SPARES CONDUITS C262 & C263 AND (2) 1" SPARE CONDUITS C264 & C265 (SEE FE4.00 DETAIL #7 FOR THE DUCT BANK LAYOUT)
 - INSTALL CONCRETE-FILLED STEEL BOLLARDS TO PROTECT THE CONDUITS AND ELECTRICAL GUTTER
 - INSTALL AN ELECTRICAL GUTTER AT THE TRANSITION FROM THE UNDERGROUND CONDUIT & CABLE INSTALLATION TO THE CABLES BEING INSTALLED ON THE LADDER RACK. NOTE: STUB UP 3" CONDUIT FOR TEMPORARY CIRCUIT C110 TO THE SOUTH OF THE GUTTER (CAP WHEN NOT IN USE)
 - INSTALL THE FOLLOWING BURIED CONDUITS AND CONDUCTORS: 3/4" CONDUIT WITH CIRCUIT C108, 3/4" CONDUIT WITH CIRCUIT C212, 3/4" CONDUIT WITH CIRCUIT C213, 3/4" CONDUIT WITH CIRCUIT C234 AND 1" CONDUIT WITH CIRCUITS C250
 - INSTALL NEW EFSO PUSH STATION WITH EFSO CIRCUITS C212 & C213 AND AN ELECTRIC RECEPTACLE WITH WEATHERPROOF COVER INSTALLED OFF THE SIDE OF THE STATION WITH CIRCUIT C108 FEEDING IT
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C234 TO FEED THE LIGHT AT THIS LIGHT POLE AND BRANCH FEEDING THE AIRPORT PARKING LOT LIGHTS FROM HERE AND A 1" CONDUIT WITH SECURITY CAMERA AND COMMUNICATION CIRCUITS TO THE EQUIPMENT MOUNTED ON THE POLE TO REPLACE THE EXISTING CIRCUIT CABLES BACK TO THE ELECTRICAL ROOM EQUIPMENT (INCLUDE A 12"x12" J-BOX AT THE BASE OF THE POLE TO COIL SLACK AND SPARE CABLE)
 - INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 24" LADDER RACK: CIRCUIT C109, CIRCUIT C121, CIRCUIT C122, CIRCUIT C124, CIRCUIT C125, CIRCUIT C127,

- CIRCUIT C128, CIRCUIT C130, CIRCUIT C131, CIRCUIT C133, CIRCUIT C135, CIRCUIT C137, CIRCUIT C139, CIRCUIT C140, CIRCUIT C150, CIRCUIT C160, CIRCUIT C170, CIRCUIT C180, CIRCUIT C181, CIRCUIT C182, CIRCUIT C183, CIRCUIT C184, CIRCUIT C188, CIRCUIT C189, CIRCUIT C190, CIRCUIT C192, CIRCUIT C194, CIRCUIT C196, CIRCUIT C200, CIRCUIT C210, CIRCUIT C213, CIRCUIT C215, CIRCUIT C220, CIRCUIT C222, CIRCUIT C230, CIRCUIT C231, CIRCUITS C240 AND CIRCUIT C241
- SURFACE MOUNT 3/4" CONDUIT WITH CIRCUIT C220 & 3/4" CONDUIT FOR C222 DOWN OFF THE LADDER RACK AND ALONG THE CONTAINMENT CURB TO THE OWS PRODUCT HIGH-LEVEL ALARM LIGHT POLE AND 1" CONDUIT WITH CIRCUIT C139 TO THE SUMP PUMP DISCONNECT
- SURFACE MOUNT 1 1/2" CONDUIT WITH CIRCUIT C137, 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183 AND 1" CONDUIT WITH CIRCUIT C184 DOWN OFF THE LADDER RACK AND ALONG THE CONTAINMENT CURBS TO THE SUMP PUMP LOCAL DISCONNECTS, DISPENSER AND FMU (INSTALL EXPLOSION-PROOF J-BOXES AS NEEDED FOR PULL POINTS)
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 9" LADDER RACK: CIRCUIT C133, CIRCUIT C135, CIRCUIT C180, 3/4" CONDUIT WITH CIRCUIT C181, 3/4" CONDUIT WITH CIRCUIT C210 AND 3/4" CONDUIT WITH CIRCUIT C231
- INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS FROM THE END OF THE LADDER RACK ON THE CATWALK AND THE CONTAINMENT SLAB TO THE EQUIPMENT ALONG THE DETAILED ROUTE: 1" CONDUIT WITH CIRCUIT C133, 1" CONDUIT WITH CIRCUIT C135, 3/4" CONDUIT WITH CIRCUIT C180, 3/4" CONDUIT WITH CIRCUIT C181, 3/4" CONDUIT WITH CIRCUIT C210 AND 3/4" CONDUIT WITH CIRCUIT C231
- INSTALL A BURIED 3/4" CONDUIT WITH CIRCUIT C231 FROM THE EDGE OF THE CONTAINMENT SLAB TO THE (E) LIGHT POLE AS DETAILED
- INSTALL A BURIED 3/4" CONDUIT WITH CIRCUIT C210 FROM THE EDGE OF THE CONTAINMENT SLAB TO THE (E) EFSO PUSH STATION AS DETAILED
- INSTALL (N) 3/4" CONDUIT WITH CIRCUIT C181 TO THE (E) DIESEL PUMP CONTROLS AND CONNECT TO (E) CONTROL STATION, DEMOLISHING THE OLD CONDUIT AND CONDUCTORS
- INSTALL (N) 1" CONDUIT WITH CIRCUIT C135 TO THE (E) DIESEL PUMP MOTOR AND REPLACE THE EXISTING CONDUIT, DEMOLISHING THE OLD CONDUIT AND CONDUCTORS
- INSTALL (N) 1" CONDUIT WITH CIRCUIT C133 TO THE (E) MOGAS PUMP MOTOR AND REPLACE THE EXISTING CONDUIT, DEMOLISHING THE OLD CONDUIT AND CONDUCTORS
- INSTALL (N) 3/4" CONDUIT WITH CIRCUIT C180 TO THE (E) MOGAS PUMP CONTROLS AND CONNECT TO (E) CONTROL STATION, DEMOLISHING THE OLD CONDUIT AND CONDUCTORS
- SURFACE MOUNT 1 1/2" CONDUIT WITH CIRCUIT C121, 1" CONDUIT WITH CIRCUIT C122, 1 1/2" CONDUIT WITH CIRCUIT C140, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C213 AND 3/4" CONDUIT WITH CIRCUIT C214 DOWN OFF THE LADDER RACK AND ALONG THE DETAILED ROUTE
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 24" LADDER RACK: CIRCUIT C109, CIRCUIT C124, CIRCUIT C125, CIRCUIT C127, CIRCUIT C128, CIRCUIT C130, CIRCUIT C131, CIRCUIT C150, CIRCUIT C160, CIRCUIT C170, CIRCUIT C180, CIRCUIT C188, CIRCUIT C189, CIRCUIT C192, CIRCUIT C194, CIRCUIT C196, CIRCUIT C200, CIRCUIT C214, CIRCUIT C230 AND CIRCUIT C241
- SURFACE MOUNT 1 1/2" CONDUIT WITH CIRCUIT C124, 1" CONDUIT WITH CIRCUIT C125, 3/4" CONDUIT WITH CIRCUIT C155 AND 3/4" CONDUIT WITH CIRCUIT C156 DOWN OFF THE LADDER RACK AND ALONG THE ROUTE
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 18" LADDER RACK: CIRCUIT C127, CIRCUIT C128, CIRCUIT C130, CIRCUIT C131, CIRCUIT C150, CIRCUIT C155, CIRCUIT C156, CIRCUIT C160, CIRCUIT C170, CIRCUIT C188, CIRCUIT C189, CIRCUIT C192, CIRCUIT C194, CIRCUIT C196, CIRCUIT C200, CIRCUIT C214, CIRCUIT C215, CIRCUIT C230 AND CIRCUIT C241
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 12" LADDER RACK: CIRCUIT C127, CIRCUIT C128, CIRCUIT C160, CIRCUIT C189, CIRCUIT C194, CIRCUIT C214 AND CIRCUIT C241

- INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS FROM THE END OF THE LADDER RACK ON THE CATWALK AND THE CONTAINMENT SLAB TO THE EQUIPMENT ALONG THE DETAILED ROUTES: 1 1/2" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128, 1 1/2" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C194, 3/4" CONDUIT WITH CIRCUIT C214 AND 3/4" CONDUIT WITH CIRCUIT C241
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 18" LADDER RACK: CIRCUIT C130, CIRCUIT C131, CIRCUIT C150, CIRCUIT C155, CIRCUIT C156, CIRCUIT C170, CIRCUIT C182, CIRCUIT C196, CIRCUIT C200 AND CIRCUIT C230
- SURFACE MOUNT THE FOLLOWING CONDUITS DOWN OFF THE LADDER RACK AND ALONG THE DETAILED ROUTES: 1 1/2" CONDUIT WITH CIRCUIT C130, 1" CONDUIT WITH CIRCUIT C131, 1 1/2" CONDUIT WITH CIRCUIT C170 AND 3/4" CONDUIT WITH CIRCUIT C196
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 9" LADDER RACK: CIRCUIT C150, CIRCUIT C155, CIRCUIT C156, CIRCUIT C192, CIRCUIT C200 AND CIRCUIT C230
- SURFACE MOUNT THE FOLLOWING CONDUITS DOWN OFF THE LADDER RACK AND ACROSS THE CONTAINMENT SLAB ALONG THE DETAILED ROUTES: 1 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155 AND 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192 AND 3/4" CONDUIT WITH CIRCUIT C230
- IF ADD ALTERNATE FOR TANK #10 WAS APPROVED, INSTALL SURFACE MOUNT CABLE/CONDUIT FOR CIRCUIT C200 ATTACHED TO THE CATWALK
- IF ADD ALTERNATE FOR TANK #10 WAS APPROVED, CONNECT CIRCUIT C200 TO THE LEVEL SENSOR
- INSTALL ELECTRICAL GUTTER AND TRANSITIONAL CONDUITS TO UNDERGROUND FOR 1 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192 AND 3/4" CONDUIT WITH CIRCUIT C230
- INSTALL THE FOLLOWING BURIED CONDUITS/CIRCUITS: 1 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192, 3/4" CONDUIT WITH CIRCUIT C211 AND 3/4" CONDUIT WITH CIRCUIT C232
- INSTALL THE FOLLOWING BURIED CONDUITS/CIRCUITS: 3/4" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C232
- INTERCEPT (E) CONDUIT AND EXTEND 3/4" CONDUIT AND RE-PULL CIRCUIT C210 FROM THE (E) EFSO PUSH STATION AT THE NORTHWEST CORNER OF THE FACILITY TO THE CABLE LADDER RACK IN THIS AREA SHALL BE INSTALLED OFF TO THE SIDE TO ALLOW IT TO FIT BETWEEN THE TANK AND THE BOTTOM OF THE CATWALK AND THEN TRANSITION CLOSER TO THE CATWALK TO BE SUPPORTED OFF OF IT MORE SECURELY
- DEMO THE (E) LIGHT POLE AND FIXTURE, CAP AND SEAL ALL UNUSED CONDUITS. RELOCATE FIRE EXTINGUISHER TO (N) UNSTRUCTURED SUPPORT IN THE SAME AREA
- THE CONTRACTOR SHALL VIA UTILITY LOCATES AND/OR TRACING THE CONDUCTORS, LOCATE ALL THE UTILITY POWER CONDUCTORS WITHIN THE EXTENT OF THE FUEL FACILITY AT THE BEING OF THE PROJECT AND PROVIDE A MARKED-UP DRAWING OF THESE UTILITIES BACK TO THE ENGINEER FOR REVIEW
- INSTALL (N) 3" CONDUIT WITH CIRCUIT C101 IN BETWEEN THE (E) UTILITY TRANSFORMER AND THE (N) UTILITY METER CAN AT THE (N) ELECTRICAL RACK
- CONCRETE ENCASEMENT OF THE DUCTBANKS SHALL CONTINUE BEYOND THE ROAD CROSSING AND BE INSTALLED UNDER THE RETAINING WALL FOOTINGS UNTIL THEY ARE UNDER THE ELECTRICAL RACK SLAB, THEY SHALL BE APPROXIMATELY 3" BELOW GRADE OUTSIDE OF THE RETAINING WALL TO THE TOP OF THE CONDUITS
- COORDINATE SUPPORTS WITH BURIED (E) ELECTRICAL CABLES IN THIS AREA.
- BEGIN SUPPORT FROM CANTILEVER FASTENED UNDER EXISTING CATWALK STRUCTURES, SEE DETAIL 8/FE4.01

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
PROPOSED OVERALL ELECTRICAL CONDITIONS PLAN	
PROJECT NAME	FUEL FACILITY IMPROVEMENTS PROJECT
PROJECT LOCATION	NAPLES AIRPORT (APF)
DRAWING NAME	PROPOSED OVERALL ELECTRICAL CONDITIONS PLAN

ISSUED FOR PERMIT

CURRIER & CO., INC.
 13323 W. WASHINGTON BLVD., SUITE 206
 LOS ANGELES, CA 90066
 (310) 279-5050

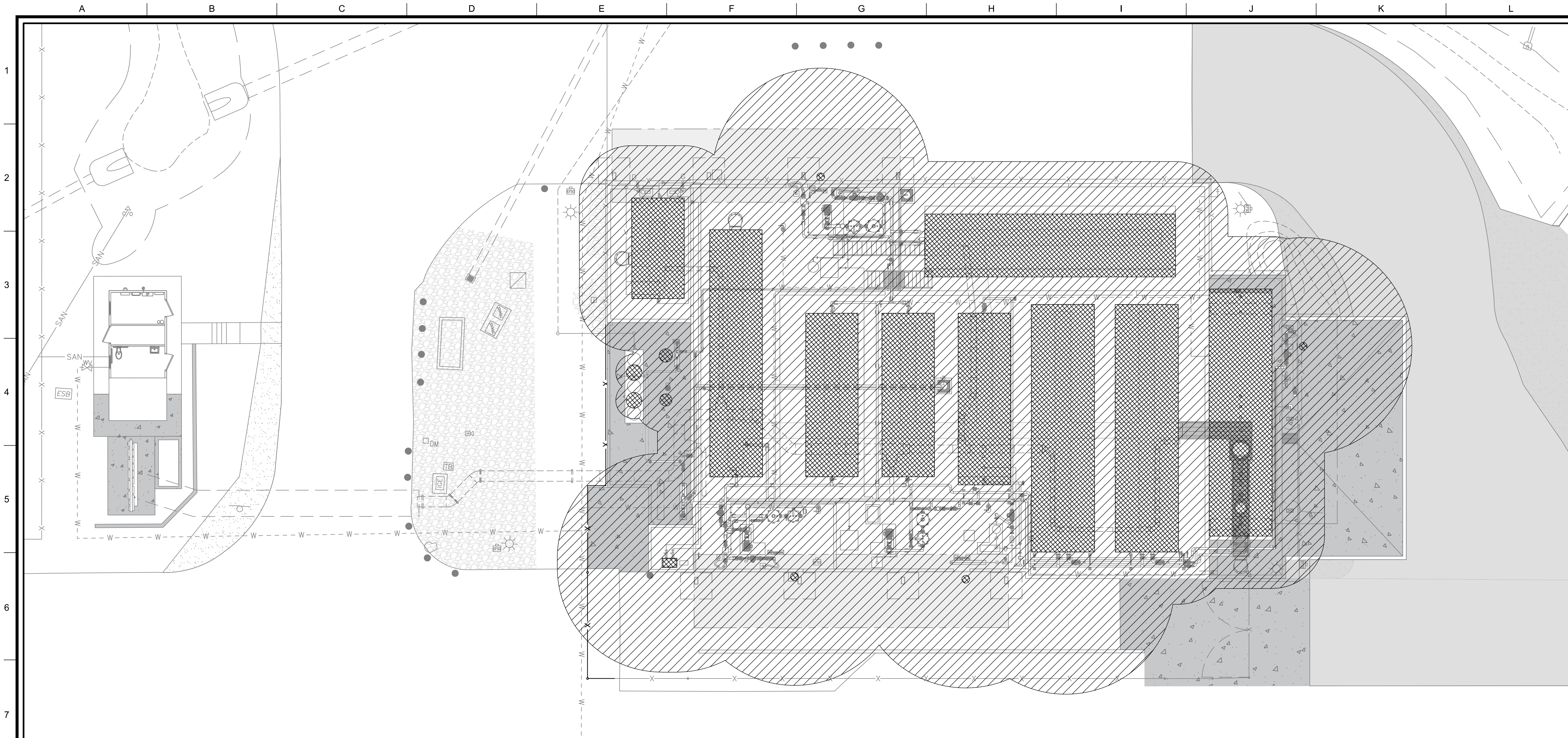
SEAL:

DANIEL E. SCHIPMAN
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 80488 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: D.E.S. FILE NAME: 23049FE200
 SHEET NUMBER:

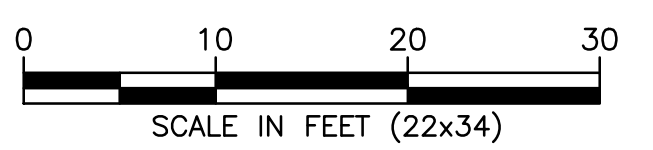
FE2.00

ISSUED FOR PERMIT



1 HAZARDOUS AREA LOCATION PLAN

SCALE: NOTED



GENERAL NOTES:

1. PROVIDE THREADED RIGID GALVANIZED STEEL OR PVC COATED RIGID CONDUIT FOR ALL EXPOSED ELECTRICAL RUNS AND TRANSITIONAL CONDUITS UNTIL THE CONDUIT IS AT BURIED DEPTH IN HAZARDOUS AREAS
2. ALL CONDUITS ENTERING, EXITING OR RUNNING UNDER HAZARDOUS AREAS SHALL BE PROVIDED WITH EXPLOSION-PROOF CONDUIT SEAL-OFF FITTINGS, UL LISTED FOR USE IN CLASS 1 DIVISION 1 & 2 GROUPS A, B, C & D CLASSIFIED HAZARDOUS ENVIRONMENTS, CROUSE-HINDS "EYS" SERIES OF EQUAL. INSTALL FITTINGS AT 18" ABOVE THE FINISHED SLAB OR WITHIN 18" OF WHERE CONDUITS EMERGE FROM EARTH OR CONCRETE SLAB OR PAVEMENT AND WITHIN 18" OF CONDUIT TERMINATION AT A DEVICE OR EQUIPMENT AT EACH END OF THE CONDUITS RUNS
3. ALL CONDUITS THAT EXTEND BEYOND THE HAZARDOUS AREA BORDERS SHALL HAVE SEAL-OFFS INSTALLED AT THE FIRST JOINT OUTSIDE THE TRANSITION BORDER OR AT THE POINT THAT THE CONDUIT EMERGES FROM THE EARTH OR CONCRETE BEYOND THE BORDER OF THE HAZARDOUS AREA
4. ALL HAZARDOUS LOCATION SEAL-OFFS AND JUNCTION BOXES SHALL BE ACCESSIBLE AND SHALL NOT BE HIDDEN OR BURIED
5. WHENEVER POSSIBLE, INSTALL ALL DEVICES AND ROUTE ALL CONDUITS OUTSIDE OF THE DEFINED HAZARDOUS AREAS
6. THIS DRAWING SHALL BE REFERENCED TO ASSIST IN DETERMINING WHERE CONDUIT SEAL-OFFS ARE REQUIRED, ALSO SEE SHEET FE5.00 FOR HAZARDOUS AREA DETAILS. ALL REQUIRED SEAL-OFFS ARE NOT SHOWN WITHIN THE PLANS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE SEAL-OFFS IN ALL REQUIRED LOCATIONS IN ACCORDANCE WITH NFPA 70 (NEC).

HAZARDOUS CLASSIFICATION LEGEND

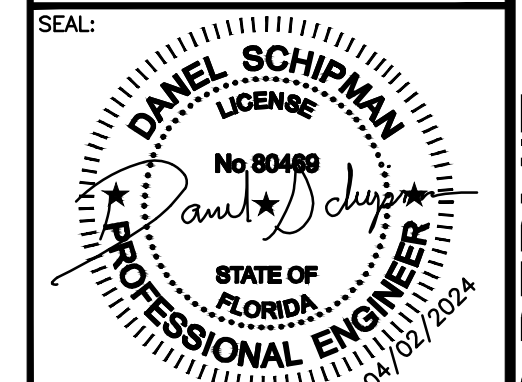
	CLASS 1, DIVISION 1, GROUP D
	CLASS 1, DIVISION 2, GROUP D

DATE	REVISIONS

PROJECT NAME	FUEL FACILITY IMPROVEMENTS PROJECT	DRAWING NAME	HAZARDOUS AREA LOCATION PLAN
PROJECT LOCATION	NAPLES AIRPORT (APF)		

ISSUED FOR PERMIT

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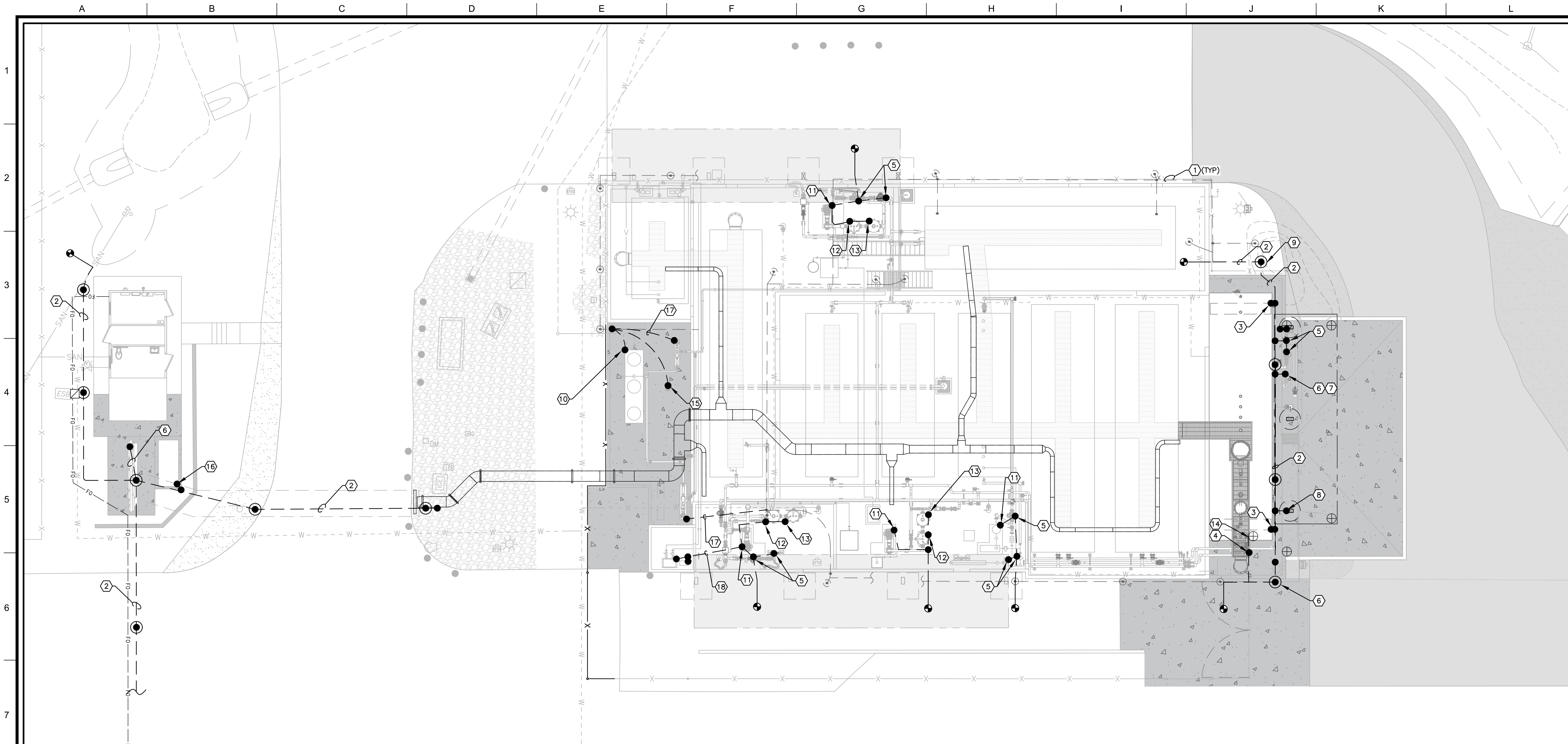


DANEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80488 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE201
SHEET NUMBER:	

FE2.01

ISSUED FOR PERMIT



1 PROPOSED OVERALL GROUNDING PLAN

SCALE: NOTED



- GENERAL NOTES:**
1. THE GROUNDING SYSTEM FOR THE (N) ELECTRICAL RACK SHALL BE MEGGER TESTED AND SHALL NOT EXCEED 25 OHMS, IF TESTING RESULTS IN AN OHM READING HIGHER THAN 25 OHMS, ADDITIONAL GROUND RODS MUST BE INSTALLED UNTIL THE 25 OHM CRITERIA IS ACHIEVED
 2. THE MAIN UNDERGROUND GROUNDING RING SHALL BE #1/0 BARE COPPER CONDUCTOR INSTALL ROUGHLY 30" DEEP
 3. PROVIDE GROUND CONDUCTORS TO ALL NEW EQUIPMENT, ELECTRICAL RACKS AND PUMPS SKIDS
 4. ALL UNDERGROUND AND CABLE JUNCTION POINTS SHALL BE THERMO WELDS
 5. BOND TOGETHER STEEL RACK SUPPORTS, PRODUCT PIPING, STEEL TANK, STRUCTURAL SUPPORTS AND RACKS AS APPLICABLE.
 6. CONNECTIONS TO STRUCTURAL SUPPORTS OR FRAMES SHALL BE THERMO WELDED WHERE POSSIBLE BUT CAN BE CONNECTED WITH APPROVED 2 HOLE GROUND LUGS WHERE NEEDED
 7. CONNECTIONS TO EQUIPMENT AND MOTORS SHALL BE COMPLETED WITH AN APPROVED 2 HOLE GROUND LUG OR APPROVED EQUIVALENT MEASURES
 8. PROVIDE GROUNDING CONDUCTOR TO ALL MOTOR HOUSING, EQUIPMENT SKIDS AND PANELS AS INDICATED ON THE DRAWINGS

- KEYNOTES:**
1. (E) #1/0 AWG BARE TINNED STRANDED COPPER GROUND COUNTERPOISE INSTALLED 30" (MIN) BELOW EXISTING GRADE
 2. (N) #1/0 AWG BARE TINNED STRANDED COPPER GROUND COUNTERPOISE INSTALLED 30" (MIN) BELOW EXISTING GRADE
 3. (N) #1 BARE GROUND CONDUCTOR CONNECTION TO TANK SADDLE
 4. (N) #1 BARE GROUND CADWELD CONNECTION TO TANK LADDER
 5. (N) #6 GROUND LEAD TO LOADING RACK PIPING AND INLINE INSTRUMENTS, CONNECT WITH AN APPROVED GROUNDING LUG (EXTEND LED TO CLOSEST EXISTING GROUND CONDUCTOR)
 6. (N) #6 GROUND LEAD TO ELECTRICAL RACK EQUIPMENT
 7. (N) #6 GROUND LEAD TO SCULLY SYSTEM
 8. (N) #1 GROUND LEAD TO CANOPY STRUCTURAL COLUMN (TYP)
 9. (N) 3/4"x10" COPPER CLAD GROUND ROD WITH CADWELD CONNECTION TO GROUND COUNTERPOISE (TYP)
 10. (N) #6 GROUND LEAD TO OIL-WATER SEPARATOR
 11. (N) #1 BARE GROUND CONNECTION TO PUMP (EXTEND LED TO CLOSEST EXISTING GROUND CONDUCTOR)
 12. (N) #6 BARE GROUND CONNECTION TO FILTER SEPARATOR (EXTEND LED TO CLOSEST EXISTING GROUND CONDUCTOR)
 13. (N) #6 BARE GROUND CONNECTION TO RELAXATION CHAMBER (EXTEND LED TO CLOSEST EXISTING GROUND CONDUCTOR)
 14. (N) 24" ALUMINUM LIGHTNING AERIAL MOUNTED TO CATWALK HANDRAIL AND BONDED TO CATWALK STRUCTURAL STEEL WITH A MINIMUM OF TO 3/8" BOLTS OR 1/0 LED CONDUCTOR WITH 2-HOLE LUG CONNECTION
 15. (N) #6 GROUND LEAD TO POLE
 16. (N) #1 BARE GROUND CADWELD CONNECTION TO GENERATOR
 17. (N) #6 GROUND LEAD TO EQUIPMENT
 18. (N) #10 GROUND LEAD TO EQUIPMENT

LEGEND	
•	GROUND CONNECTION OR INTERSECTION
⊙	GROUND ROD 10' x 3/4" MIN.
⊕	LIGHTNING ROD TERMINAL WITH MINIMUM 1/0 BRAIDED ALUMINUM LED BONDED TO NEAREST POINT OF STRUCTURAL STEEL WITH APPROVED 2-HOLE LUG
⊕	LOCATE AND TIE-IN TO EXISTING GROUND SYSTEM IN THIS AREA

DATE	REVISIONS

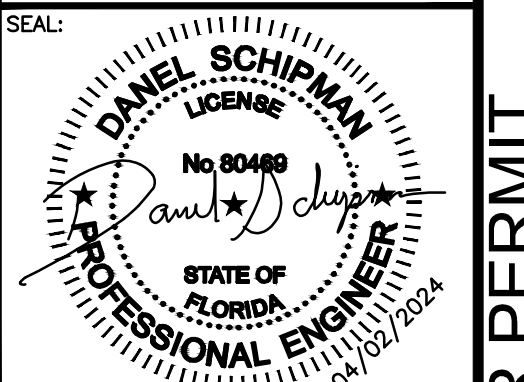
CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT	PROJECT NAME
NAPLES AIRPORT (APF)	PROJECT LOCATION
PROPOSED OVERALL GROUNDING PLAN	DRAWING NAME

ISSUED FOR PERMIT

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13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

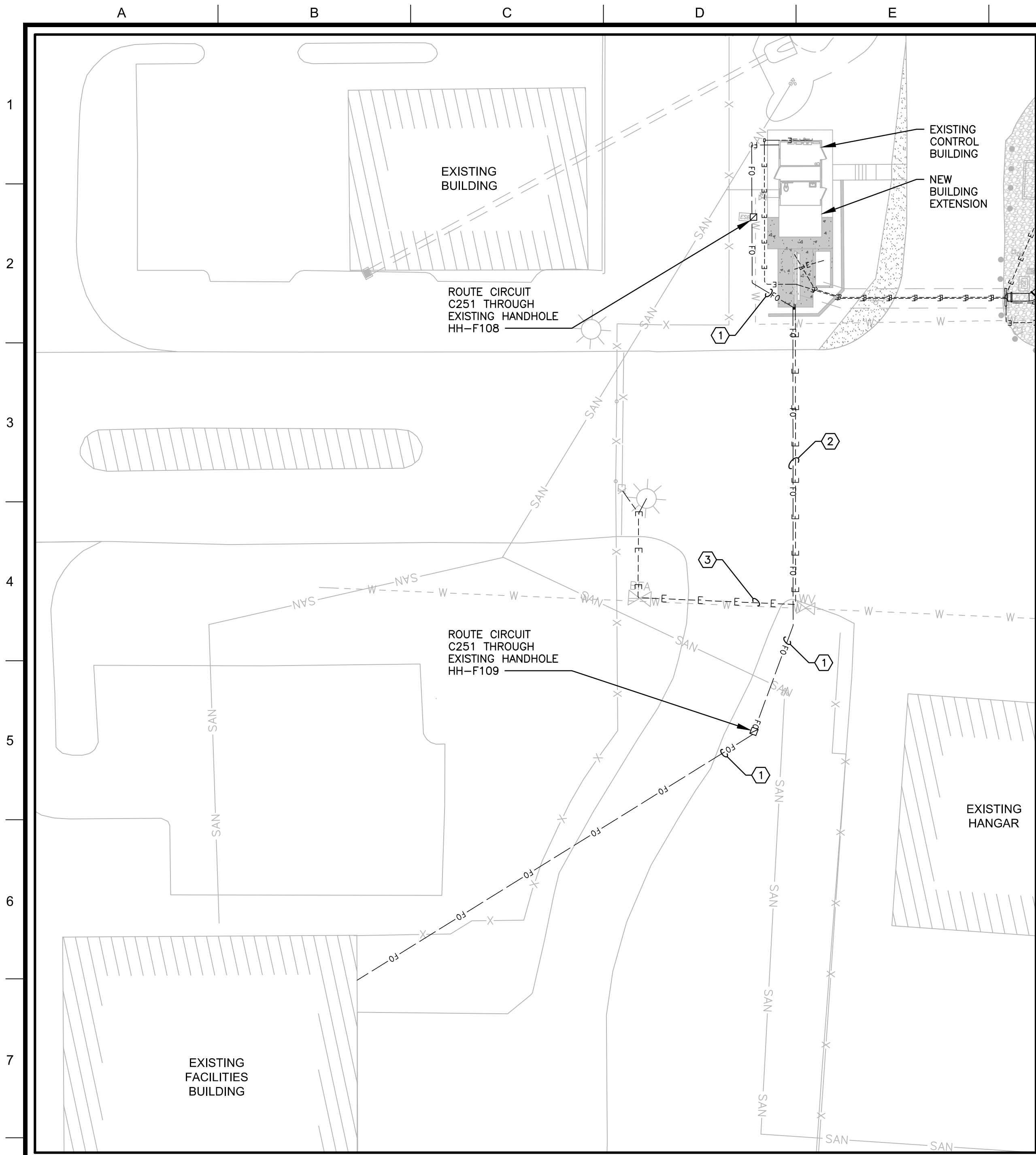


DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80469 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE202

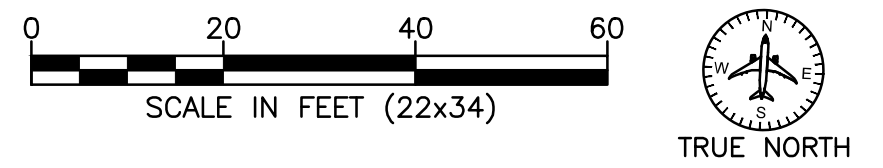
SHEET NUMBER: FE2.02

ISSUED FOR PERMIT



- KEYNOTES: (#)
1. INSTALL 1" CONDUIT WITH CIRCUIT C251
 2. THE CONTRACTOR SHALL SAW CUT, TRENCH AND INSTALL THE FOLLOWING CONDUITS IN A CONCRETE REINFORCED DUCT BANK UNDER THE ASPHALT: (2) 3/4" CONDUITS ACROSS THE (E) ASPHALT DRIVE AND COMPLETE THE TRENCH INSTALLATION TO THE MAIN ELECTRICAL RACK AND THE GATE OPERATOR AND LIGHT POLE AT THE GATE FOR CIRCUITS C107 & C233 AND TRENCH TO INSTALL A 1" CONDUIT FROM THE FUEL FACILITY'S ELECTRICAL ROOM TO THE THE FACILITIES BUILDING TO THE SOUTHWEST FOR CIRCUIT C251
 3. INSTALL A 3/4" CONDUIT TO THE GATE OPERATOR WITH CIRCUIT C107 AND A 3/4" CONDUIT TO THE LIGHT POLE WITH CIRCUIT C233

1 PROPOSED FIBER CONNECTION TO EXISTING FACILITIES BUILDING PLAN
SCALE: NOTED



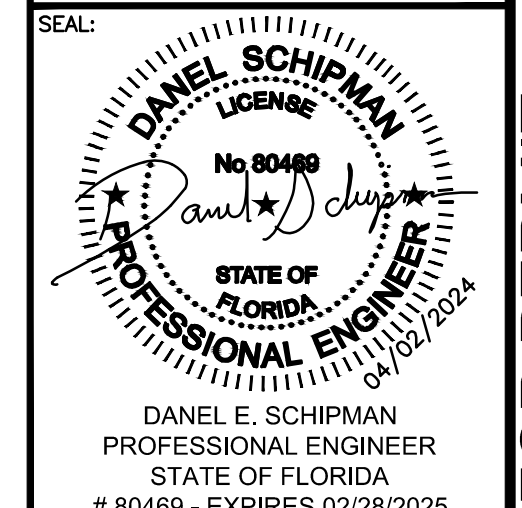
DATE



FUEL FACILITY IMPROVEMENTS PROJECT	PROJECT NAME
NAPLES AIRPORT (APF)	PROJECT LOCATION
PROPOSED FIBER CONNECTION TO EXISTING FACILITIES BUILDING PLAN	DRAWING NAME

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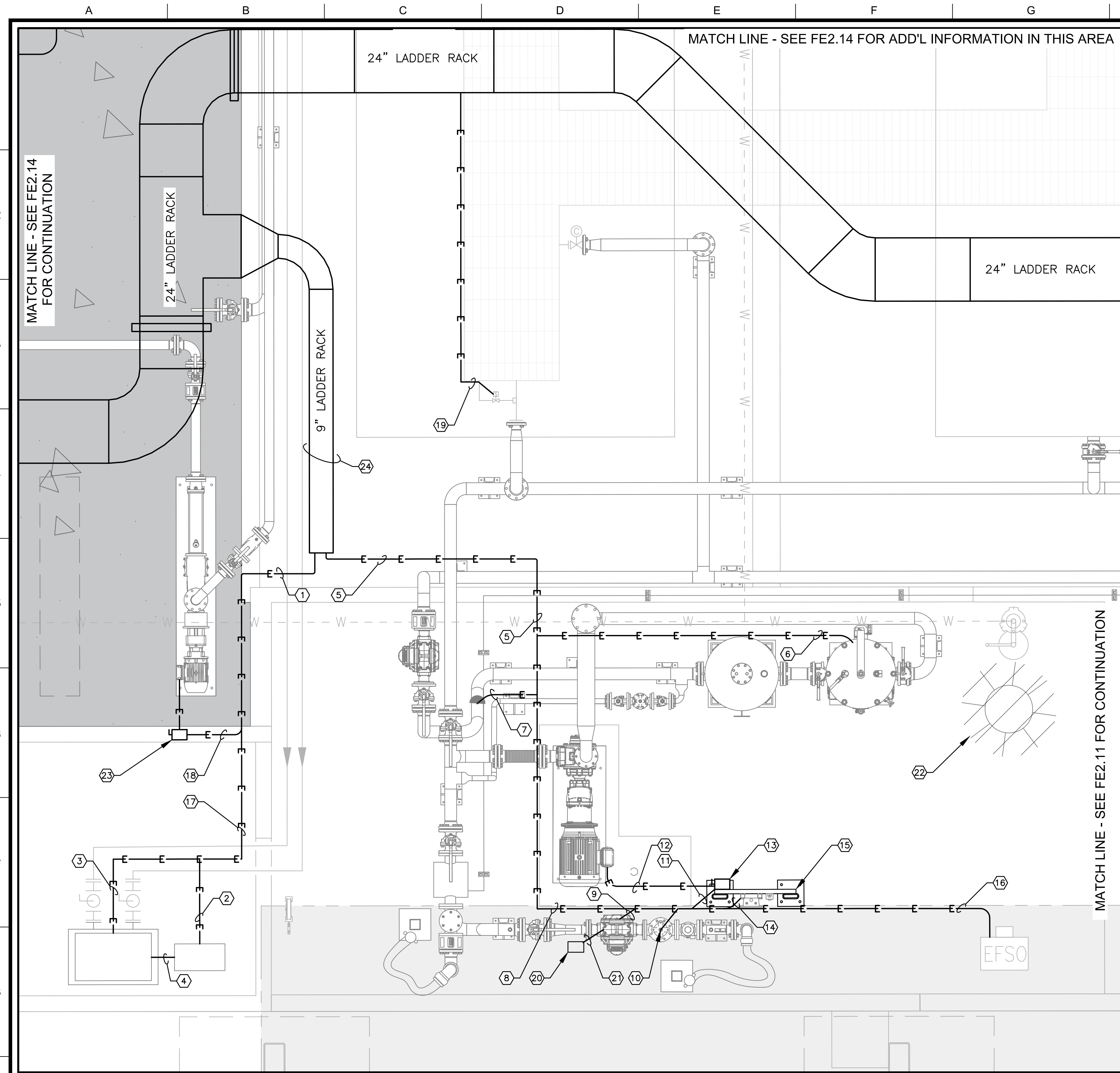


DANIEL E. SCHIPMAN
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80488 - EXPIRES 02/28/2025

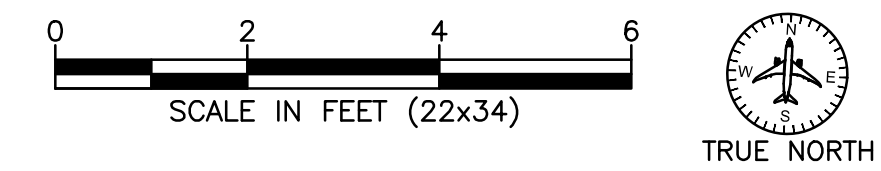
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE203
SHEET NUMBER:	

FE2.03



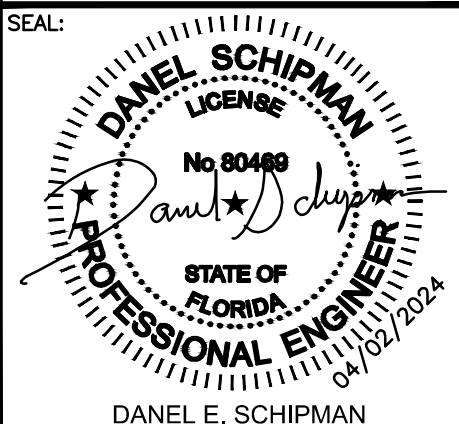
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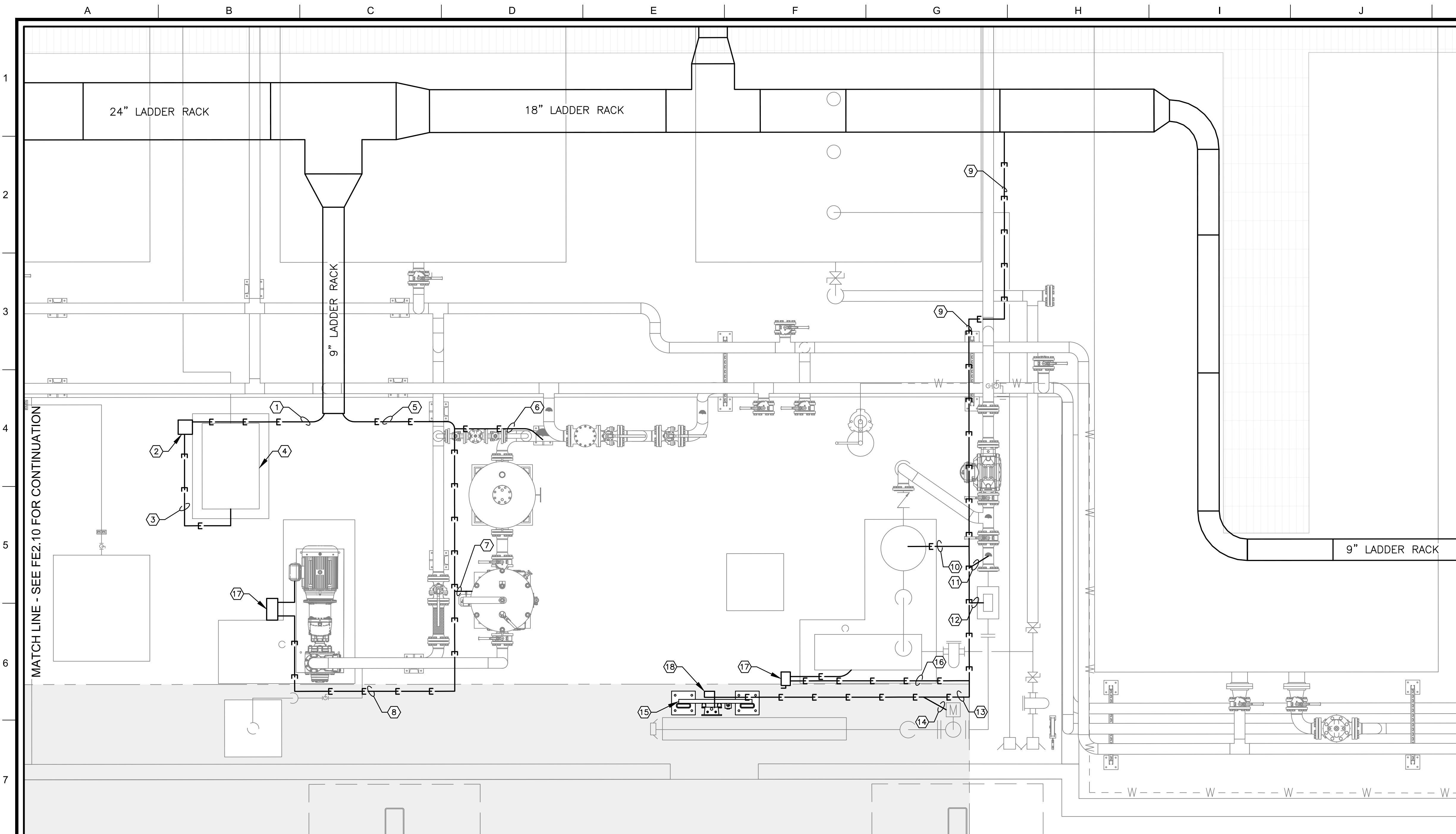


1 PROPOSED WEST JET-A PUMP AREA AND MOGAS/DIESEL DISPENSER ELECTRICAL PLAN
SCALE: NOTED



- GENERAL NOTES:**
- SEE THE DEMOLITION PLAN ON SHEET D2.00 FOR THE SCOPE OF EQUIPMENT REMOVAL, ALL EQUIPMENT WITH ELECTRICAL CONNECTIONS SHALL BE DE-ENERGIZED AND MADE SAFE FOR EQUIPMENT REMOVAL AND ELECTRICAL SERVICES/CONDUITS THAT ARE TO BE REUSED SHALL BE PROTECTED FROM DAMAGE AS MUCH AS POSSIBLE
 - ALL CONDUITS AND FITTINGS IN THE TANK, FILTER/PUMP AND LOADING RACK AREAS SHALL BE HAZARDOUS RATED
- KEYNOTES: (#)**
- INSTALL THE FOLLOWING GRS CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT CURB AND SLAB: 1/4" CONDUIT WITH CIRCUIT C137, 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183 AND 1" CONDUIT WITH CIRCUIT C184
 - INSTALL 3/4" GRS CONDUIT WITH CIRCUIT C183 AND 1" CONDUIT WITH CIRCUIT C184 TO THE FUEL FORCE 814 CONTROLLER (FMU)
 - INSTALL 3/4" GRS CONDUIT WITH CIRCUIT C182 TO THE MOGAS/DIESEL DISPENSER
 - INSTALL 3/4" GRS CONDUIT WITH CONDUCTORS NOTED AS CIRCUIT C185 PER THE FMU MANUFACTURER
 - INSTALL THE FOLLOWING GRS CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT SLAB: 1/4" CONDUIT WITH CIRCUIT C121, 1" CONDUIT WITH CIRCUIT C122, 1/4" CONDUIT WITH CIRCUIT C140, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C213 AND 3/4" CONDUIT WITH CIRCUIT C214
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C145 TO THE FILTER SEPARATOR WATER SENSOR ON UNISTRUT SUPPORTS
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C146 TO THE FLOW SWITCH
 - INSTALL THE FOLLOWING GRS CONDUITS SURFACE MOUNT ON UNISTRUT ON THE SLAB AND PUMP PIER: 1/4" CONDUIT WITH CIRCUIT C121, 1" CONDUIT WITH CIRCUIT C122, 1/4" CONDUIT WITH CIRCUIT C140, 3/4" CONDUIT WITH CIRCUIT C145, 3/4" CONDUIT WITH CIRCUIT C146, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C213 AND 3/4" CONDUIT WITH CIRCUIT C214
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C142 AND A 3/4" CONDUIT WITH CIRCUIT C190 TO THE FLOWMETER REGISTER
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C144 TO THE LOADING CONTROL VALVE
 - INSTALL THE FOLLOWING CONDUITS TO THE LOCAL PUMP DISCONNECT: 1/4" CONDUIT WITH CIRCUIT C121 AND 1" CONDUIT WITH CIRCUIT C122
 - INSTALL A CONDUIT FROM THE LOCAL PUMP DISCONNECT TO THE PUMP MOTOR 1/4" CONDUIT WITH CIRCUITS C121 & C122 (THWN WIRE) NOTE: WIRE BRAIDED EXPLOSIVE PROOF FLEX DUCT AND SEAL-OFF'S SHALL BE USED AT MOTOR CONNECTIONS
 - HAZARDOUS-RATED LOCAL PUMP DISCONNECT AND SWITCH FOR HEATER CIRCUIT MOUNTED ON UNISTRUT SUPPORTS
 - INSTALL THE FOLLOWING GRS CONDUITS SURFACE MOUNT ON UNISTRUT ON THE SLAB AND PUMP PIER: 1/4" CONDUIT WITH CIRCUIT C140, 3/4" CONDUIT WITH CIRCUIT C142, 3/4" CONDUIT WITH CIRCUIT C144, 3/4" CONDUIT WITH CIRCUIT C145 AND 3/4" CONDUIT WITH CIRCUIT C146
 - REPLACE (E) CONTROLS RACK WITH (N) PUMP AND VALVE CONTROLS RACK (SEE DETAIL #1 ON FE4.02 FOR TYP INSTALLATION)
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C213 TO THE (E) EFSO PUSH STATION AND 3/4" CONDUIT WITH C214 BACK OUT TO THE NORTH LOADING RACK PUSH STATION
 - INSTALL THE FOLLOWING GRS CONDUITS SURFACE MOUNT ON THE CONTAINMENT CURB AND SLAB: 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183 AND 1" CONDUIT WITH CIRCUIT C184
 - INSTALL THE FOLLOWING GRS CONDUITS SURFACE MOUNT ON THE CONTAINMENT CURB AND SLAB: 1/4" CONDUIT WITH CIRCUIT C137 TO THE LOCAL DISCONNECT AND ON TO THE PUMP
 - INSTALL 3/4" GRS CONDUIT FROM THE LADDER RACK TO THE ANTI-SIPHON VALVE FOR CIRCUIT C240
 - INSTALL THE X1 CLOUD CONNECT COMMUNICATIONS UNIT (PROVIDED BY OTHERS) IN A NEMA 7 ENCLOSURE (12"Hx6"Wx4"D) ON A UNISTRUT SUPPORT WITH THE ANTENNA (PROVIDED BY OTHERS) MOUNTED TO THE EQUIPMENT SUPPORT AS HIGH AS POSSIBLE
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C191 BETWEEN THE METER REGISTER AND THE X1 CLOUD COMMUNICATIONS UNIT
 - DEMO THE (E) LIGHT POLE AND FIXTURE, CAP AND SEAL ALL UNUSED CONDUITS. RELOCATE FIRE EXTINGUISHER TO (N) UNISTRUT SUPPORT IN THE SAME AREA
 - INSTALL LOCAL PUMP DISCONNECT FOR CIRCUIT C137
 - INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 9" LADDER RACK: CIRCUIT C121, CIRCUIT C122, CIRCUIT C137, CIRCUIT C140, CIRCUIT C182, CIRCUIT C183, CIRCUIT C184, CIRCUIT C190, CIRCUIT C213 AND CIRCUIT C214

DATE	
REVISIONS	
 	
FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)
PROPOSED WEST JET-A PUMP AREA AND MOGAS/DIESEL DISPENSER ELECTRICAL PLAN	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD. SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL:  DANEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80489 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PLOT NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE210
SHEET NUMBER: FE2.10	



1 PROPOSED EAST PUMP ELECTRICAL PLAN

SCALE: NOTED



GENERAL NOTES:

- SEE THE DEMOLITION PLAN ON SHEET D2.00 FOR THE SCOPE OF EQUIPMENT REMOVAL, ALL EQUIPMENT WITH ELECTRICAL CONNECTIONS SHALL BE DE-ENERGIZED AND MADE SAFE FOR EQUIPMENT REMOVAL AND ELECTRICAL SERVICES/CONDUITS THAT ARE TO BE REUSED SHALL BE PROTECTED FROM DAMAGE AS MUCH AS POSSIBLE.
 - ALL CONDUITS AND FITTINGS IN THE TANK, FILTER/PUMP AND LOADING RACK AREAS SHALL BE HAZARDOUS RATED.
- KEYNOTES: (F)**
- INSTALL SURFACE MOUNT 1" GRS CONDUIT DOWN FROM THE LADDER RACK TO A POWER SWITCH
 - LOCKABLE HAZARDOUS-RATED POWER SWITCH ON A UNISTRUT STAND TO CONTROL THE PRIST PUMP
 - INSTALL SURFACE MOUNTED ¾" GRS CONDUIT ALONG THE PUMP SKID FRAMING WITH THWN WIRING FROM THE SWITCH TO THE PRIST PUMP MOTOR
 - PRIST PUMP SKID
 - INSTALL THE FOLLOWING GRC CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT SLAB FLOOR ON UNISTRUT: 1¼" CONDUIT WITH CIRCUIT C124, 1" CONDUIT WITH CIRCUIT C125, ¾" CONDUIT WITH CIRCUIT C155 AND ¾" CONDUIT WITH CIRCUIT C156
 - INSTALL ¾" CONDUIT WITH CIRCUIT C156 TO THE FLOW SWITCH
 - INSTALL ¾" CONDUIT WITH CIRCUIT C155 TO THE WATER SENSOR IN THE FILTER SEPARATOR
 - INSTALL 1¼" CONDUIT WITH CIRCUIT C124 AND 1" CONDUIT WITH CIRCUIT C125 TO THE JET-A PUMP MOTOR #2
 - SURFACE MOUNT THE FOLLOWING GRS CONDUITS DOWN OFF THE LADDER RACK AND ALONG THE CONTAINMENT SLAB FLOOR ON VERTICAL UNISTRUT SUPPORTS: 1¼" CONDUIT WITH CIRCUIT C130 AND 1" CONDUIT WITH CIRCUIT C131 TO THE PUMP MOTOR; 1¼" CONDUIT WITH CIRCUIT C170 TO THE CONTROLS JUNCTION BOX AND ¾" CONDUIT WITH CIRCUIT C196 TO THE METER REGISTER
 - INSTALL ¾" CONDUIT WITH CIRCUIT C175 TO THE FILTER SEPARATOR WATER SENSOR FROM THE CONTROL JUNCTION BOX
 - INSTALL ¾" CONDUIT WITH CIRCUIT C176 TO THE FLOW SWITCH FROM THE CONTROL JUNCTION BOX

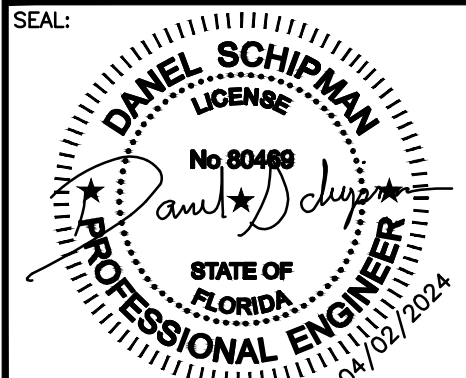
- INSTALL ¾" CONDUIT WITH CIRCUIT C172 TO THE METER REGISTER FROM THE CONTROL JUNCTION BOX, ¾" CONDUIT WITH CIRCUIT C196 TO THE METER REGISTER FROM THE DC POWER SUPPLY IN THE EFSO/ RELAY PANEL AND ¾" CONDUIT WITH CIRCUIT C197 TO THE X1 CLOUD CONNECT COMMUNICATIONS UNIT
- SURFACE MOUNT THE FOLLOWING GRS CONDUITS ALONG THE CONTAINMENT SLAB FLOOR ON VERTICAL UNISTRUT SUPPORTS: 1¼" CONDUIT WITH CIRCUIT C170, ¾" CONDUIT WITH CIRCUIT C172, ¾" CONDUIT WITH CIRCUIT C175, ¾" CONDUIT WITH CIRCUIT C176 AND ¾" CONDUIT WITH CIRCUIT C197
- INSTALL ¾" CONDUIT WITH CIRCUIT C174 TO THE LOADING RACK MOV VALVE
- AVGAS LOADING/UNLOADING CONTROLS RACK WITH SCULLY, CONTROLS JUNCTION BOX, PUMP START/STOP PUMP PUSH BUTTONS AND LOADING RACK VALVE DEADMAN CONTROLS (SEE DETAIL #1 ON FE4.02)
- SURFACE MOUNT THE FOLLOWING GRS CONDUITS ALONG THE CONTAINMENT SLAB FLOOR ON VERTICAL UNISTRUT SUPPORTS: 1¼" CONDUIT WITH CIRCUIT C130 AND 1" CONDUIT WITH CIRCUIT C131 TO THE AVGAS PUMP MOTOR
- HAZARDOUS RATED LOCAL PUMP DISCONNECT AND SWITCH FOR HEATER CIRCUIT MOUNTED ON UNISTRUT SUPPORTS (TYP)
- INSTALL THE X1 CLOUD CONNECT COMMUNICATIONS UNIT (PROVIDED BY OTHERS) IN A NEMA 7 ENCLOSURE (12"hx6"Wx4"D) WITH THE ANTENNA (PROVIDED BY OTHERS) MOUNTED TO THE EQUIPMENT SUPPORTS AS HIGH AS POSSIBLE

DATE	REVISIONS	PROJECT NAME	PROJECT LOCATION	DRAWING NAME
		FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	PROPOSED ELECTRICAL PARTIAL PLAN SHEET 2



ISSUED FOR PERMIT

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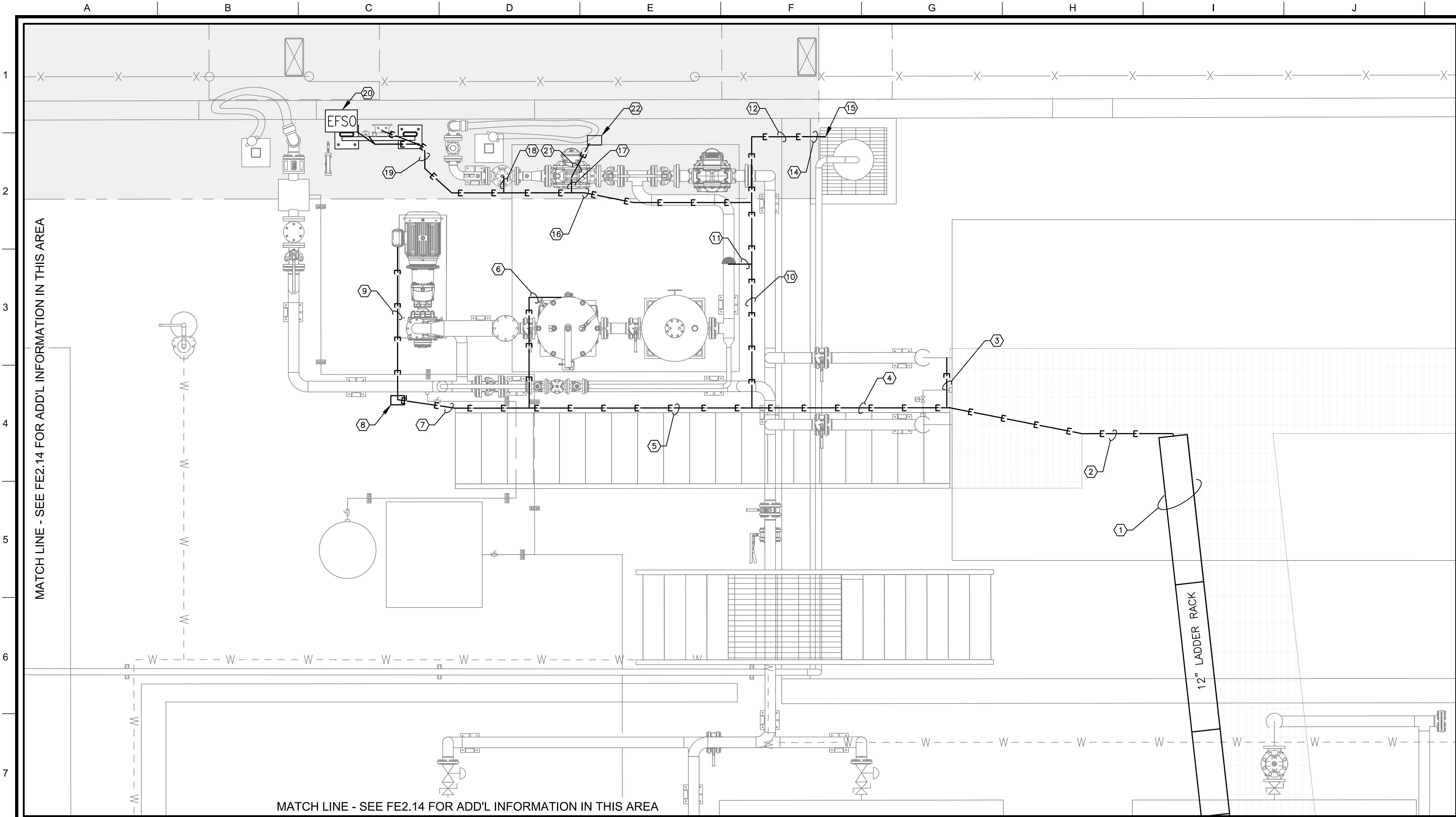


DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DESIGNED BY: D.E.S. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE211
SHEET NUMBER:

FE2.11

ISSUED FOR PERMIT



MATCH LINE - SEE FE2.14 FOR ADD'L INFORMATION IN THIS AREA

MATCH LINE - SEE FE2.14 FOR ADD'L INFORMATION IN THIS AREA

12" LADDER RACK

1 PROPOSED NORTH PUMP ELECTRICAL PLAN

SCALE: NOTED
 SCALE IN FEET (22x34)
 TRUE NORTH

GENERAL NOTES:
 1. SEE THE DEMOLITION PLAN ON SHEET D2.00 FOR THE SCOPE OF EQUIPMENT REMOVAL, ALL EQUIPMENT WITH ELECTRICAL CONNECTIONS SHALL BE DE-ENERGIZED AND MADE SAFE FOR EQUIPMENT REMOVAL AND ELECTRICAL SERVICES/CONDUITS THAT ARE TO BE REUSED SHALL BE PROTECTED FROM DAMAGE AS MUCH AS POSSIBLE
 2. ALL CONDUITS AND FITTINGS IN THE TANK, FILTER/PUMP AND LOADING RACK AREAS SHALL BE HAZARDOUS RATED

- KEYNOTES:**
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 12" LADDER RACK: CIRCUIT C127, CIRCUIT C128, CIRCUIT C160, CIRCUIT C189, CIRCUIT C194, CIRCUIT C214 AND CIRCUIT C241
 - INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS FROM THE END OF THE LADDER RACK MOUNTED ON SUPPORTS FROM THE CATWALK FROM THE SIDE OR BOTTOM: 1 1/4" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128, 1 1/4" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C194, 3/4" CONDUIT WITH CIRCUIT C214 AND 3/4" CONDUIT WITH CIRCUIT C241
 - INSTALL 3/4" GRS CONDUIT SUPPORTED FROM THE CATWALK TO THE ANTI-SIPHON VALVE FOR CIRCUIT C241
 - INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS TO THE CATWALK STAIR FRAME BEFORE DROPPING OFF TO BE SUPPORTED ON VERTICAL UNISTRUT SUPPORTS MOUNTED TO THE CONTAINMENT SLAB FLOOR: 1 1/4" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128, 1 1/4" CONDUIT WITH CIRCUIT C194 AND 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C194 AND 3/4" CONDUIT WITH CIRCUIT C214
 - INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS ON UNISTRUT SUPPORTS: 1 1/4" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128 AND 3/4" CONDUIT WITH CIRCUIT C165 1" CONDUIT WITH CIRCUIT C137, 1 1/4" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C194 AND 3/4" CONDUIT WITH CIRCUIT C214
 - INSTALL A 3/4" CONDUIT WITH CIRCUIT C165 TO THE FILTER SEPARATOR WATER SENSOR ON UNISTRUT SUPPORTS
 - INSTALL THE FOLLOWING CONDUITS/CIRCUITS ON UNISTRUT SUPPORTS MOUNTED TO THE LOCAL PUMP DISCONNECT: 1 1/4" CONDUIT WITH CIRCUIT C127 AND 1" CONDUIT WITH CIRCUIT C128
 - HAZARDOUS-RATED LOCAL PUMP DISCONNECT AND SWITCH FOR HEATER CIRCUIT MOUNTED ON UNISTRUT SUPPORTS
 - INSTALL A SURFACE-MOUNTED 1 1/4" CONDUIT WITH CIRCUITS C127 & C128 (THWN WIRE) TO THE PUMP MOTOR (NOTE: WIRE BRAIDED EXPLOSIVE PROOF FLEX DUCT AND SEAL-OFF'S SHALL BE USED AT MOTOR CONNECTIONS)

- INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS ON VERTICAL UNISTRUT SUPPORTS MOUNTED TO THE CONTAINMENT SLAB FLOOR: 1 1/4" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C165, 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C194, AND 3/4" CONDUIT WITH CIRCUIT C214
- INSTALL A 3/4" CONDUIT WITH CIRCUIT C166 TO THE FLOW SWITCH
- INSTALL A 3/4" SURFACE MOUNTED CONDUIT WITH CIRCUIT C189 ACROSS THE DIKE FLOOR TO THE SUMP PIT CONTROL FLOAT
- N/A
- INSTALL A SURFACE-MOUNTED 3/4" CONDUIT WITH CIRCUIT C189 DOWN THE CONTAINMENT WALL TO THE (N) CONTROL FLOAT.
- INSTALL (N) CONTROL FLOAT IN THE SUMP PIT (SEE MECHANICAL DRAWINGS FOR DETAILS)
- INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS ON VERTICAL UNISTRUT SUPPORTS MOUNTED TO THE CONTAINMENT SLAB FLOOR: 1 1/4" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C165, 3/4" CONDUIT WITH CIRCUIT C166, 3/4" CONDUIT WITH CIRCUIT C194 AND 3/4" CONDUIT WITH CIRCUIT C214
- INSTALL A 3/4" CONDUIT WITH CIRCUIT C162 AND A 3/4" CONDUIT WITH CIRCUIT C194 TO THE FLOWMETER REGISTER
- INSTALL A 3/4" CONDUIT WITH CIRCUIT C164 TO THE LOADING CONTROL VALVE
- INSTALL THE FOLLOWING SURFACE MOUNT CONDUITS/CIRCUITS ON VERTICAL UNISTRUT SUPPORTS MOUNTED TO THE CONTAINMENT SLAB FLOOR: 1 1/4" CONDUIT WITH CIRCUIT C160, 3/4" CONDUIT WITH CIRCUIT C162, 3/4" CONDUIT WITH CIRCUIT C164, 3/4" CONDUIT WITH CIRCUIT C165, 3/4" CONDUIT WITH CIRCUIT C166 AND 3/4" CONDUIT WITH CIRCUIT C214
- REPLACE (E) CONTROLS RACK WITH (N) PUMP AND VALVE CONTROLS RACK WITH (N) EFSO PUSH STATION (SEE DETAIL #1 ON FE4.02 FOR TYP INSTALLATION)
- INSTALL 3/4" CONDUIT WITH CIRCUIT C195 BETWEEN THE METER REGISTER AND THE X1 CLOUD CONNECT COMMUNICATIONS UNIT
- INSTALL THE X1 CLOUD CONNECT COMMUNICATIONS UNIT (PROVIDED BY OTHERS) IN A NEMA 7 ENCLOSURE (12"Hx6"Wx4"D) ON A UNISTRUT SUPPORT WITH THE ANTENNA (PROVIDED BY OTHERS) MOUNTED TO THE EQUIPMENT SUPPORT AS HIGH AS POSSIBLE

DATE	REVISIONS

PROJECT NAME	FUEL FACILITY IMPROVEMENTS PROJECT
PROJECT LOCATION	NAPLES AIRPORT (APF)
DRAWING NAME	PROPOSED ELECTRICAL PARTIAL PLAN SHEET 3

ISSUED FOR PERMIT

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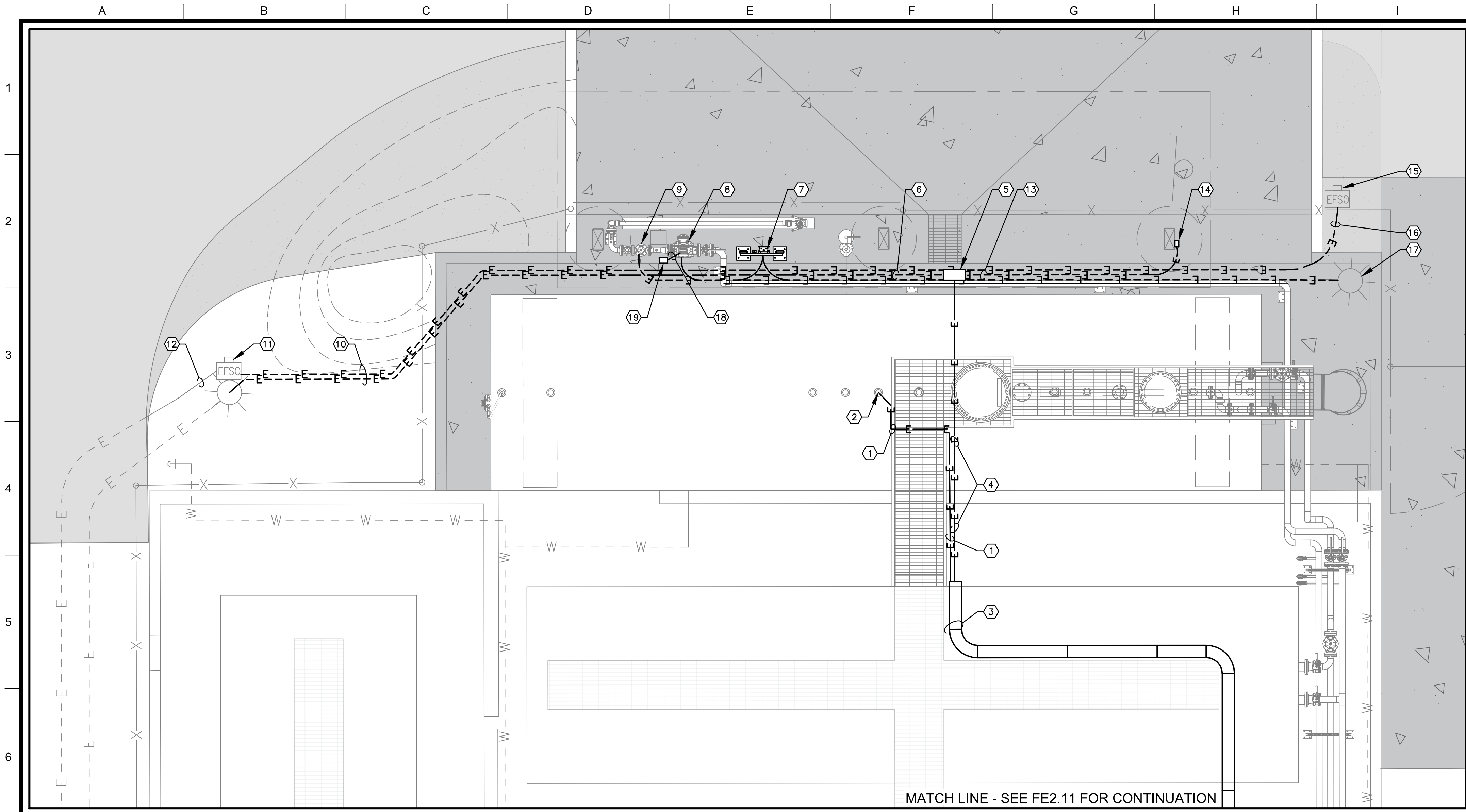
SEAL:

DANIEL E. SCHIPMAN
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 # 80489 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S. DATE: 04/02/2024
 DRAWN BY: M.G. PROJ. NO: 23049
 APPROVED BY: D.E.S. FILE NAME: 23049FE212
 SHEET NUMBER:

FE2.12

ISSUED FOR PERMIT



GENERAL NOTES:

- SEE THE DEMOLITION PLAN ON SHEET D2.00 FOR THE SCOPE OF EQUIPMENT REMOVAL. ALL EQUIPMENT WITH ELECTRICAL CONNECTIONS SHALL BE DE-ENERGIZED AND MADE SAFE FOR EQUIPMENT REMOVAL AND ELECTRICAL SERVICES/CONDUITS THAT ARE TO BE REUSED SHALL BE PROTECTED FROM DAMAGE AS MUCH AS POSSIBLE .
- ALL CONDUITS AND FITTINGS IN THE TANK, FILTER/PUMP AND LOADING RACK AREAS SHALL BE HAZARDOUS RATED.

KEYNOTES: (#)

- IF ADD ALTERNATE FOR TANK #10 WAS APPROVED, INSTALL SURFACE MOUNT CABLE/CONDUIT FOR CIRCUIT C200 ATTACHED TO THE CATWALK
- IF ADD ALTERNATE FOR TANK #10 WAS APPROVED, INSTALL A NEW VEEDER-ROOT LEVEL PROBE IN THE TANK CONNECTING IT BACK TO THE EXISTING TLS -450 VIA CIRCUIT C200
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 9" LADDER RACK: CIRCUIT C150, CIRCUIT C155, CIRCUIT C156, CIRCUIT C192, CIRCUIT C200 AND CIRCUIT C230
- SURFACE MOUNT THE FOLLOWING CONDUITS DOWN OFF THE LADDER RACK AND ACROSS THE CONTAINMENT SLAB ALONG THE DETAILED ROUTES: 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155 AND 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192 AND 3/4" CONDUIT WITH CIRCUIT C230
- INSTALL ELECTRICAL GUTTER AND TRANSITIONAL CONDUITS TO UNDERGROUND FOR 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192 AND 3/4" CONDUIT WITH CIRCUIT C230
- INSTALL THE FOLLOWING BURIED CONDUITS/CIRCUITS: 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C156, 3/4" CONDUIT WITH CIRCUIT C192, 3/4" CONDUIT WITH CIRCUIT C211 AND 3/4" CONDUIT WITH CIRCUIT C232
- ROUTE CONDUITS UNDERGROUND TO EAST LOADING RACK 1/2" CONDUIT WITH CIRCUIT C150, 3/4" CONDUIT WITH CIRCUIT C152, 3/4" CONDUIT WITH CIRCUIT C154, 3/4" CONDUIT WITH CIRCUIT C155, 3/4" CONDUIT WITH CIRCUIT C156
- INSTALL A 3/4" BURIED CONDUIT TO THE FLOWMETER REGISTER FOR CIRCUIT C152
- INSTALL A 3/4" BURIED CONDUIT WITH CIRCUIT C154 TO THE LOADING RACK CONTROL VALVE
- INSTALL THE FOLLOWING BURIED CONDUITS/CIRCUITS IN THE DUCTBANK: 3/4" CONDUIT WITH CIRCUIT C211 AND 3/4" CONDUIT WITH CIRCUIT C232
- REINSTALL THE (E) EFSO PUSH STATION TO THE IT'S NEW LOCATION ON THE (E) LIGHT POLE AND EXTEND CONDUIT AND CIRCUIT C210 WIRING, SEE D2.00
- INTERCEPT (E) CONDUIT AND EXTEND 3/4" CONDUIT AND RE-PULL CIRCUIT C210 FROM THE (E) EFSO PUSH STATION AT THE NORTHWEST CORNER OF THE FACILITY
- INSTALL THE FOLLOWING BURIED CONDUITS/CIRCUITS: 3/4" CONDUIT WITH CIRCUIT C211, 3/4" CONDUIT WITH CIRCUIT C230 AND 3/4" CONDUIT WITH CIRCUIT C232
- INSTALL 3/4" CONDUIT/CIRCUIT C230 TO A J-BOX ON THE COLUMN TO FEED UP THE CANOPY SUPPORT TO THE CANOPY LIGHT FIXTURES
- RELOCATE THE EXISTING EFSO PUSH STATION TO THIS LOCATION AND REPLACE THE WIRING SUPPORT TO THE CANOPY LIGHT FIXTURES
- INSTALL 3/4" CONDUIT WITH CIRCUIT C211 BETWEEN THE RELOCATED NORTHEAST AND SOUTHEAST EFSO PUSH STATIONS
- RELOCATED EXISTING LIGHT POLE, SEE DEMO SHEET D2.00
- INSTALL 3/4" CONDUIT WITH CIRCUIT C193 BETWEEN THE METER REGISTER AND THE X1 CLOUD COMMUNICATIONS UNIT
- INSTALL THE X1 CLOUD CONNECT COMMUNICATIONS UNIT (PROVIDED BY OTHERS) IN A NEMA 7 ENCLOSURE (12"Hx6"Wx4"D) ON A UNISTRUT SUPPORT WITH THE ANTENNA (PROVIDED BY OTHERS) MOUNTED TO THE EQUIPMENT SUPPORT AS HIGH AS POSSIBLE

MATCH LINE - SEE FE2.11 FOR CONTINUATION

1 PROPOSED EAST ELECTRICAL AREA PLAN
SCALE: NOTED



DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT	NAPLES AIRPORT (APF)	PROPOSED ELECTRICAL PARTIAL PLAN SHEET 4
PROJECT NAME	PROJECT LOCATION	DRAWING NAME

ISSUED FOR PERMIT

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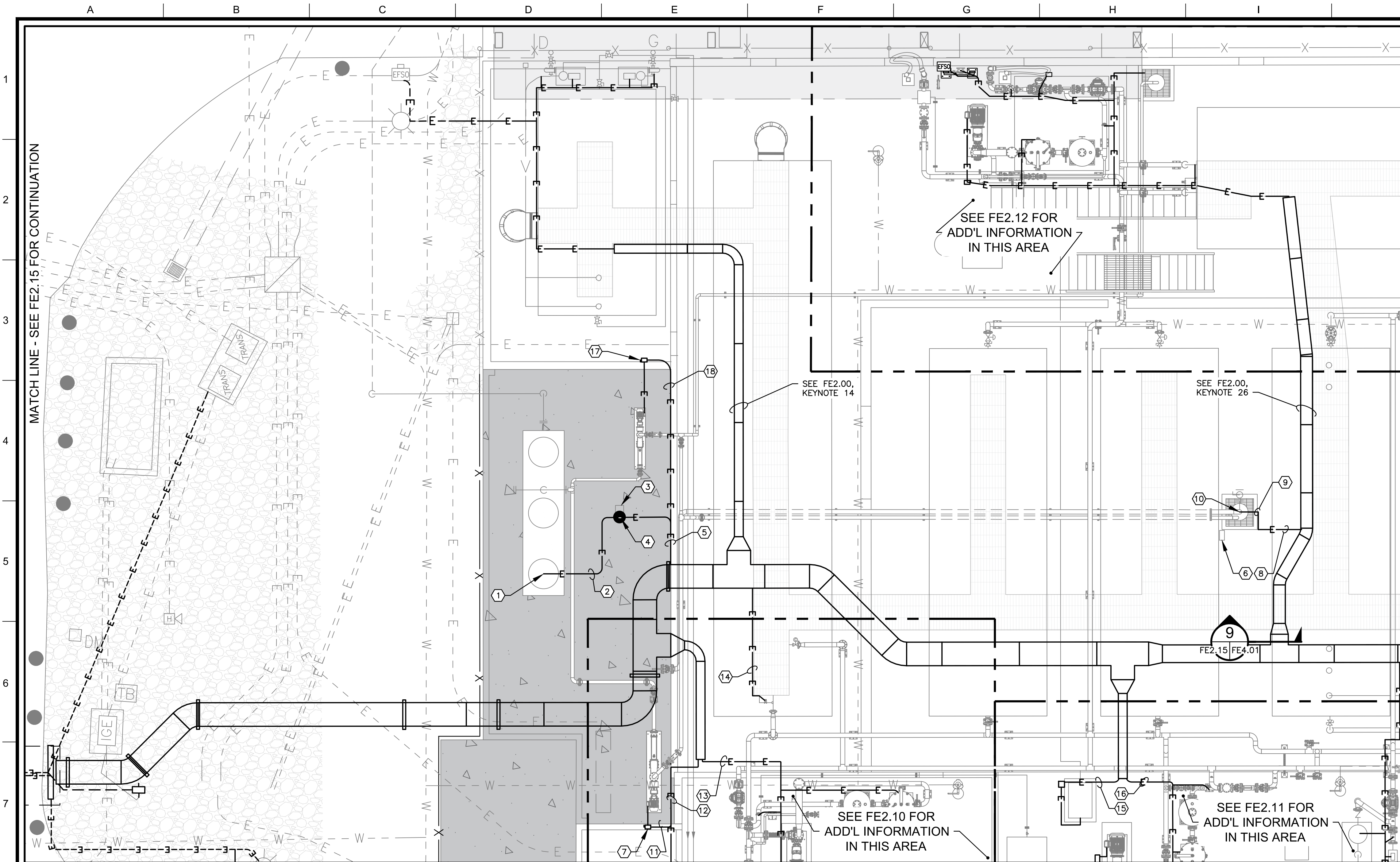
SEAL:

DANEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80488 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE213
SHEET NUMBER:	

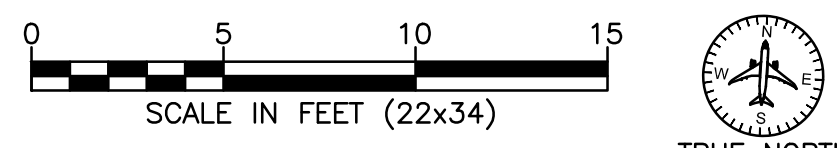
FE2.13

ISSUED FOR PERMIT



1 RELOCATED OIL / WATER SEPARATOR ELECTRICAL PLAN

SCALE: NOTED



- GENERAL NOTE:**
1. THE EXISTING OWS TANK HAS A HIGH-LEVEL SWITCH INSTALLED IN THE PRODUCT COMPARTMENT OF THE TANK WHICH IS CONNECTED TO AN ALARM INDICATION LIGHT INSTALLED ON THE POLE NEXT TO THE OWS. WHEN THE PRODUCT REACHES THE ALARM LEVEL, THE FLOAT SWITCH CLOSES ITS INTERNAL CIRCUIT CONTACTS AND ENERGIZES THE ALARM INDICATOR LIGHT. THIS (E) ALARM INDICATOR IS TO BE RELOCATED WITH THE (E) OWS AND RECONNECTED TO FUNCTION IN THE SAME MANNER AT THE NEW LOCATION.

- KEYNOTES:**
1. EXISTING LEVEL SWITCH RELOCATED WITH (E) OWS TANK
 2. INSTALL NEW CONDUIT WITH CONTROL CIRCUIT CONDUCTORS TO THE (E) FLOAT SWITCH CIRCUIT C220 & CIRCUIT C222 AND BACK AND TO (E) HIGH-LEVEL PRODUCT ALARM LIGHT POLE CIRCUIT C221
 3. RELOCATED EXISTING HIGH-LEVEL ALARM LIGHT POLE AND FIXTURE
 4. INSTALL A (N) J-BOX IN THE LIGHT POLE FOR WIRING CIRCUIT C220 & C222 THROUGH TO THE LEVEL SWITCH ON THE PRODUCT HATCH OF THE OWS TANK AND THEN TO THE INDICATOR LIGHT ON THE POLE CIRCUIT C221
 5. INSTALL A 1" CONDUIT WITH CIRCUIT C139, 3/4" CONDUIT WITH CIRCUIT C220 & 3/4" CONDUIT WITH C222 SURFACE MOUNTED TO THE CONTAINMENT CURB FROM THE DROP AT THE LADDER RACK TO THE SUMP PUMP DISCONNECT AND ALARM LIGHT POLE J-BOX
 6. (E) COMBINATION MOTOR DISCONNECT/STARTER PANEL FOR SUMP PUMP #1 TO BE DEMO'D
 7. (N) SUMP PUMP #1 LOCAL DISCONNECT PANEL FOR CIRCUIT C137
 8. SURFACE MOUNT THE 3/4" CONDUIT WITH CIRCUIT C137 DOWN OFF THE LADDER RACK TO THE (N) SUMP PUMP #1 LOCAL DISCONNECT PANEL AND 3/4" CONDUIT WITH CIRCUIT 188 TO THE (N) CONTROL FLOATS IN THE SUMP PIT
 9. INSTALL SURFACE-MOUNTED 3/4" GRS CONDUIT AND EXPLOSION-PROOF WATERTIGHT FLEX CONDUIT TO THE PUMP MOTOR WITH CIRCUIT C137 (THWN CONDUCTORS SHALL BE USED FROM THE PANEL TO THE MOTOR) AND 3/4" CONDUIT WITH CIRCUIT 188 TO THE CONTROL FLOATS IN THE SUMP PIT
 10. INSTALL (N) CONTROL FLOATS, SUBMERSIBLE SUMP PUMP AND MOTOR (SEE MECHANICAL DRAWINGS FOR DETAILS)
 11. INSTALL THE 1 1/4" CONDUIT WITH CIRCUIT C137 FROM THE LADDER RACK TO THE (N) SUMP PUMP LOCAL DISCONNECT PANEL AND ON TO THE PUMP
 12. INSTALL THE FOLLOWING GRS CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT CURB AND SLAB: 1 1/4" CONDUIT WITH CIRCUIT C137, 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183 AND 1" CONDUIT WITH CIRCUIT C184
 13. INSTALL THE FOLLOWING GRS CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT SLAB: 1 1/4" CONDUIT WITH CIRCUIT C121, 3/4" CONDUIT WITH CIRCUIT C122, 1 1/4" CONDUIT WITH CIRCUIT C140, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C213 AND 3/4" CONDUIT WITH CIRCUIT C214
 14. INSTALL 3/4" GRS CONDUIT FROM THE LADDER RACK TO THE ANTI-SIPHON VALVE FOR CIRCUIT C240
 15. INSTALL SURFACE MOUNT 1" GRS CONDUIT DOWN FROM THE LADDER RACK TO A POWER SWITCH
 16. INSTALL THE FOLLOWING GRS CONDUITS DOWN FROM THE LADDER RACK AND SURFACE MOUNT ON THE CONTAINMENT SLAB FLOOR ON UNISTRUT: 1 1/4" CONDUIT WITH CIRCUIT C124, 1" CONDUIT WITH CIRCUIT C125, 3/4" CONDUIT WITH CIRCUIT C155 AND 3/4" CONDUIT WITH CIRCUIT C156
 17. (N) SUMP PUMP LOCAL DISCONNECT PANEL FOR CIRCUIT C139
 18. INSTALL THE 1" CONDUIT WITH C139 FROM THE LADDER RACK TO THE (N) SUMP PUMP LOCAL DISCONNECT PANEL AND ON TO THE PUMP

REVISIONS	DATE

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

**PROPOSED ELECTRICAL PARTIAL PLAN
SHEET 5**

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

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(310) 279-5050

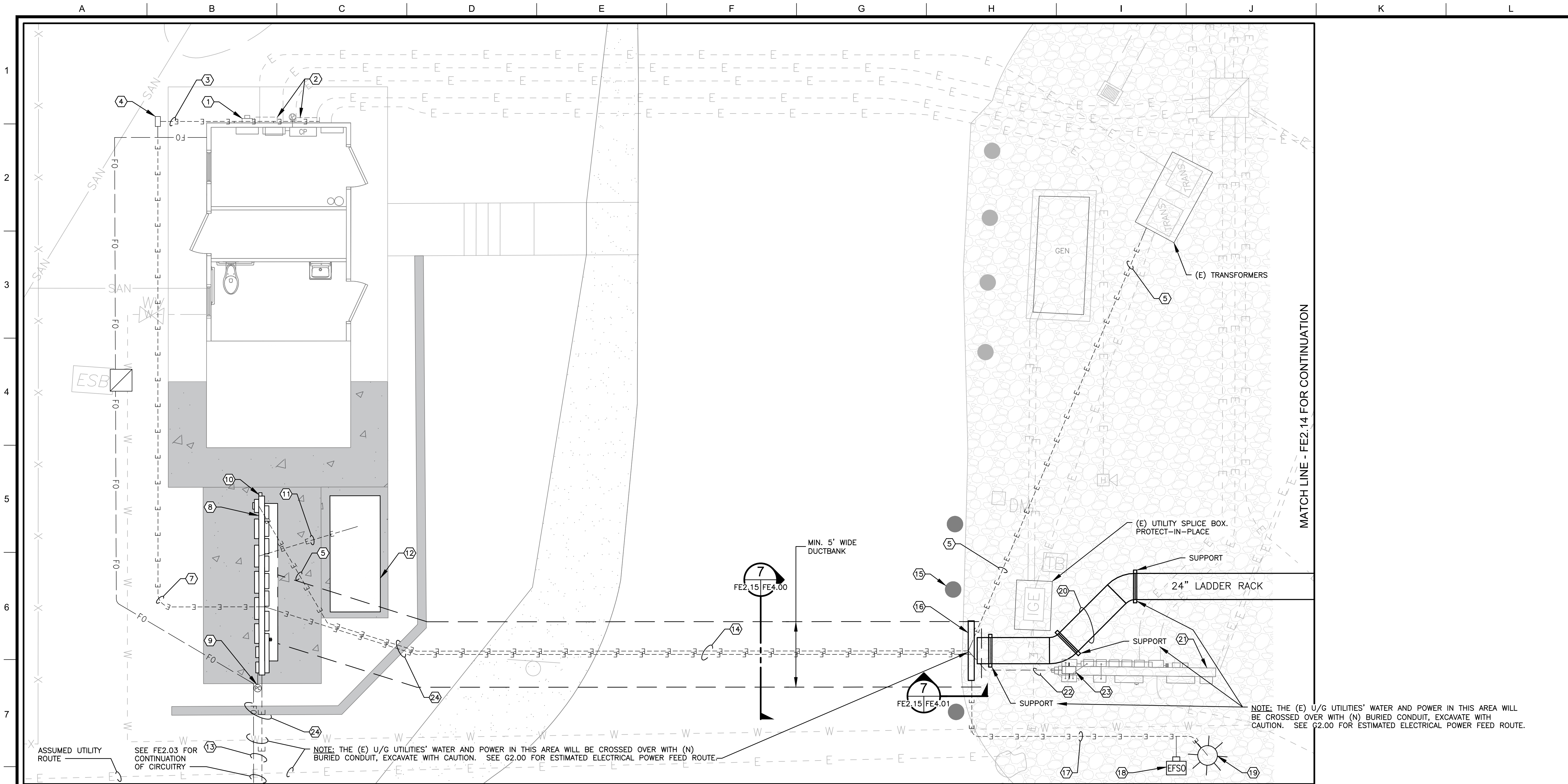
SEAL: **DANIEL SCHIPMAN**
No. 80488
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/02/2024

DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80488 - EXPIRES 02/28/2025

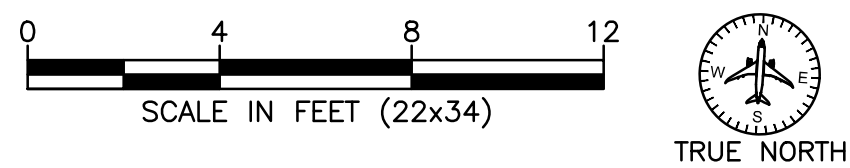
DESIGNED BY: D.E.S. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE214
SHEET NUMBER:

FE2.14

ISSUED FOR PERMIT



1 ELEC/MECH ROOM AREA ELECTRICAL PLAN
SCALE: NOTED



- KEYNOTES:**
- (E) UTILITY METER THAT FEEDS THE "SHELTER SERVICE" DISTRIBUTION PANEL
 - (E) ELECTRICAL GUTTERS USED FOR ELECTRICAL PENETRATIONS THROUGH THE WALL
 - THE FOLLOWING CONDUITS AND CONDUCTORS SHALL BE INSTALLED THROUGH THE (E) GUTTERS OR CORED THROUGH THE WALL WITH (N) ELECTRICAL GUTTER SIMILAR TO THE EXISTING ENTRANCES AND SURFACE MOUNTED TO THE EDGE OF THE SLAB: 3/4" CONDUIT WITH CIRCUIT C104, 1" CONDUIT WITH CIRCUIT C184, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231 AND 1" CONDUIT WITH CIRCUIT C250 (SEAL ALL WALL PENETRATIONS AROUND THE CONDUITS AT ENTRY POINTS)
 - INSTALL A SMALL ELECTRICAL GUTTER TO BE A PULL POINT AT THE CONDUIT TRANSITION TO UNDERGROUND
 - INSTALL UNDERGROUND 3" CONDUIT WITH CIRCUIT C101 BETWEEN THE (E) UTILITY TRANSFORMER AND THE (N) ELECTRICAL METER AT THE (N) ELECTRICAL RACK. HAND DIG ALONG ENTIRE ROUTE
 - NOT USED
 - INSTALL THE FOLLOWING CONDUITS AND CONDUCTORS IN THIS DUCTBANK: 3/4" CONDUIT WITH CIRCUIT C104, 1" CONDUIT WITH CIRCUIT C184, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231, 1" CONDUIT WITH CIRCUIT C250 AND (2) 1" SPARES C260 & C261 BETWEEN THE ELECTRICAL GUTTERS
 - (N) ELECTRICAL RACK (SEE DETAILS #2 & #3 ON FE4.02 FOR ELEVATION DETAILS)
 - INSTALL LIGHTING CONTROL PHOTOCELL ON THE ELECTRICAL RACK CANOPY (FACING NORTH) WITH 3/4" CONDUIT AND CIRCUIT C236 TO THE CONTROL PANEL
 - INSTALL HOA SWITCH IN AN ELECTRICAL BOX TO CONTROL THE LIGHTS AT THE ELECTRICAL RACK
 - INSTALL 3" CONDUIT WITH CIRCUIT C100 BETWEEN THE RELOCATED (E) BACKUP GENERATOR AND THE (N) TRANSFER SWITCH
 - RELOCATED (E) BACKUP GENERATOR
 - THE CONTRACTOR SHALL SAW CUT AND TRENCH CONDUITS ACROSS THE (E) ASPHALT DRIVE AND COMPLETE THE TRENCH

- INSTALLATION TO THE MAIN ELECTRICAL RACK AND THE GATE OPERATOR AND LIGHT POLE AT THE GATE FOR CIRCUITS C107 AND C233. ADDITIONALLY, THE CONTRACTOR SHALL INSTALL A UNDERGROUND 1" CONDUIT FOR CIRCUIT C251 BETWEEN THE FUEL FACILITY BUILDING AND THE FACILITY BUILDING TO THE SOUTHWEST USING THE EXISTING COMMUNICATIONS HANDHOLES AND EXTENDING THE CONDUIT AND FIBER WITHIN THE BUILDINGS TO THE ROUTERS
- THE CONTRACTOR SHALL SAW CUT AND TRENCH CONDUITS ACROSS THE (E) ASPHALT DRIVE FROM THE (N) ELECTRICAL RACK TO THE FACILITY TANK AREA. THE DUCT BANK UNDER THE ASPHALT PLUS 2' BEYOND ON EACH END SHALL BE ENCASED IN REINFORCED CONCRETE PER DETAIL 6 ON FE4.00. THE CONTRACTOR SHALL INSTALL THE FOLLOWING CONDUITS AND CONDUCTORS: 3" CONDUIT WITH CIRCUIT C101, 3/4" CONDUIT WITH CIRCUIT C108, 1" CONDUIT WITH CIRCUIT C109, 3" CONDUIT FOR TEMPORARY CIRCUIT C110, 1/4" CONDUIT WITH CIRCUIT C121, 1" CONDUIT WITH CIRCUIT C122, 1/4" CONDUIT WITH CIRCUIT C124, 1" CONDUIT WITH CIRCUIT C125, 1/4" CONDUIT WITH CIRCUIT C127, 1" CONDUIT WITH CIRCUIT C128, 1/4" CONDUIT WITH CIRCUIT C130, 1" CONDUIT WITH CIRCUIT C131, 1" CONDUIT WITH CIRCUIT C133, 1" CONDUIT WITH CIRCUIT C135, 1/4" CONDUIT WITH CIRCUIT C137, 1" CONDUIT WITH CIRCUIT C139, 1/4" CONDUIT WITH CIRCUIT C140, 1/4" CONDUIT WITH CIRCUIT C150, 1/4" CONDUIT WITH CIRCUIT C160, 1/4" CONDUIT WITH CIRCUIT C170, 3/4" CONDUIT WITH CIRCUIT C180, 3/4" CONDUIT WITH CIRCUIT C181, 3/4" CONDUIT WITH CIRCUIT C182, 3/4" CONDUIT WITH CIRCUIT C183, 1" CONDUIT WITH CIRCUIT C184, 3/4" CONDUIT WITH CIRCUIT C188, 3/4" CONDUIT WITH CIRCUIT C189, 3/4" CONDUIT WITH CIRCUIT C190, 3/4" CONDUIT WITH CIRCUIT C192, 3/4" CONDUIT WITH CIRCUIT C194, 3/4" CONDUIT WITH CIRCUIT C196, 1" CONDUIT WITH CIRCUIT C200, 3/4" CONDUIT WITH CIRCUIT C210, 3/4" CONDUIT WITH CIRCUIT C212, 3/4" CONDUIT WITH CIRCUIT C220, 3/4" CONDUIT WITH CIRCUIT C222, 3/4" CONDUIT WITH CIRCUIT C230, 3/4" CONDUIT WITH CIRCUIT C231, 1" CONDUIT WITH CIRCUITS C240 & C241, 1" CONDUIT WITH CIRCUIT C250, (2) 1" SPARE CONDUIT C260 & C261, (2) 1/4" SPARES CONDUITS C262 & C263 AND (2) 1" SPARE CONDUITS C264 & C265 (SEE DUCT BANK DETAIL #7/FE4.00)
- INSTALL CONCRETE-FILLED STEEL BOLLARDS TO PROTECT THE CONDUITS AND ELECTRICAL GUTTER (TYP)
- INSTALL AN ELECTRICAL GUTTER AT THE TRANSITION FROM THE UNDERGROUND CONDUIT & CABLE INSTALLATION TO THE CABLES BEING INSTALLED ON THE LADDER RACK. NOTE: STUB UP 3" CONDUIT FOR TEMPORARY CIRCUIT C110 TO THE SOUTH OF THE GUTTER (CAP WHEN NOT IN USE)
- INSTALL THE FOLLOWING BURIED CONDUITS AND CONDUCTORS: 3/4" CONDUIT WITH CIRCUIT C108, 3/4" CONDUIT WITH CIRCUIT C212, 3/4" CONDUIT WITH CIRCUIT C213, 3/4" CONDUIT WITH CIRCUIT C234 AND 1" CONDUIT WITH CIRCUITS C250

- INSTALL NEW EFSO PUSH STATION WITH EFSO CIRCUITS C212 & C213 AND AN ELECTRIC RECEPTACLE WITH IN-USE WEATHERPROOF COVER INSTALLED OFF THE SIDE OF THE STANCHION WITH CIRCUIT C108 FEEDING IT
- INSTALL A 3/4" CONDUIT WITH CIRCUIT C234 TO FEED THE LIGHT AT THIS LIGHT POLE AND BRANCH FEEDING THE AIRPORT PARKING LOT LIGHTS FROM HERE AND A 1" CONDUIT WITH SECURITY CAMERA AND COMMUNICATION CIRCUITS TO THE EQUIPMENT MOUNTED ON THE POLE TO REPLACE THE EXISTING CIRCUIT CABLES BACK TO THE ELECTRICAL ROOM EQUIPMENT (INCLUDE A 12"x12" J-BOX AT THE BASE OF THE POLE TO COIL SLACK AND SPARE CABLE)
- INSTALL THE FOLLOWING CABLES/CIRCUITS ON THE 24" LADDER RACK: CIRCUIT C109, CIRCUIT C121, CIRCUIT C122, CIRCUIT C124, CIRCUIT C125, CIRCUIT C127, CIRCUIT C128, CIRCUIT C130, CIRCUIT C131, CIRCUIT C133, CIRCUIT C135, CIRCUIT C137, CIRCUIT C139, CIRCUIT C140, CIRCUIT C150, CIRCUIT C160, CIRCUIT C170, CIRCUIT C180, CIRCUIT C181, CIRCUIT C182, CIRCUIT C183, CIRCUIT C184, CIRCUIT C188, CIRCUIT C189, CIRCUIT C190, CIRCUIT C192, CIRCUIT C194, CIRCUIT C196, CIRCUIT C200, CIRCUIT C210, CIRCUIT C213, CIRCUIT C220, 3/4" CONDUIT WITH C222, CIRCUIT C230, CIRCUIT C231, CIRCUITS C240 AND CIRCUIT C241
- (E) ELECTRICAL RACK TO BE DEMO'D ONCE THE (N) REPLACE RACK IS COMPLETED AND CIRCUITS TRANSFERRED
- INSTALL 3" CONDUIT FOR TEMPORARY CIRCUIT C110 BETWEEN (N) TRANSFER SWITCH AND TEMPORARY ELECTRICAL GUTTER OF THE (E) TRANSFER SWITCH
- INSTALL A NEW ELECTRICAL GUTTER TO INTERCEPT THE (E) POWER FEED BETWEEN THE (E) TRANSFER SWITCH AND (E) MDP PANEL. ONCE THE ELECTRICAL GUTTER AND CONDUITS ARE INSTALLED, A MAINTENANCE WINDOW CAN BE SCHEDULED, SO THE CONDUCTORS BETWEEN THE (E) TRANSFER SWITCH AND (E) MDP SHALL BE DISCONNECTED AND PULLED INTO THE ELECTRICAL GUTTER WITH (N) CONDUCTORS AND SPICED TOGETHER FOR A 3-WAY CONNECTION PER PHASE BETWEEN THE (N) AND (E) TRANSFER SWITCHES AND THE (E) MDP SO THAT BOTH ELECTRICAL RACKS WILL BE POWERED AT THE SAME TIME AND THE INDIVIDUAL CIRCUITS CAN BE ROLLED FROM THE (E) PANELS TO THE (N) PANELS ONE AT A TIME WITH MINIMAL DOWNTIMES AND INTERRUPTIONS TO OPERATIONS
- CONCRETE ENCASEMENT OF THE DUCT BANKS SHALL CONTINUE BEYOND THE ROAD CROSSING AND BE INSTALLED UNDER THE RETAINING WALL FOOTINGS UNTIL THEY ARE UNDER THE ELECTRICAL RACK SLAB, THEY SHALL BE APPROXIMATELY 3' BELOW GRADE OUTSIDE OF THE RETAINING WALL TO THE TOP OF THE CONDUITS

NOTE: THE (E) U/G UTILITIES' WATER AND POWER IN THIS AREA WILL BE CROSSED OVER WITH (N) BURIED CONDUIT, EXCAVATE WITH CAUTION. SEE G2.00 FOR ESTIMATED ELECTRICAL POWER FEED ROUTE.

MATCH LINE - FE2.14 FOR CONTINUATION

REVISIONS	DATE

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

ELEC/MECH ROOM AREA ELECTRICAL PLAN

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

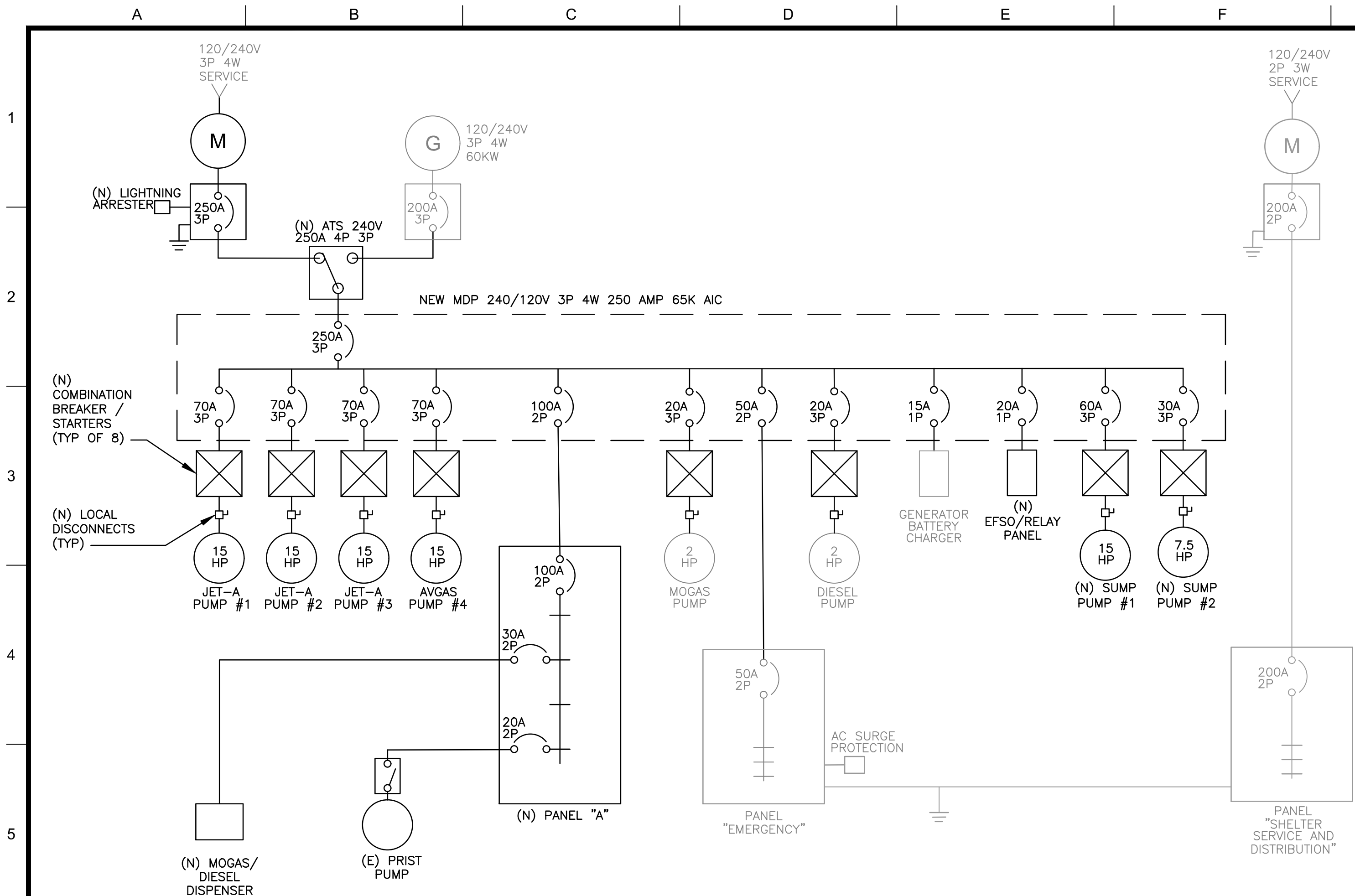
CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL: **DANIEL SCHIPMAN**
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80489 - EXPIRES 02/28/2025

DRAWN BY: D.E.S. DATE: 04/02/2024
CHECKED BY: M.G. PROJ. NO: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE215

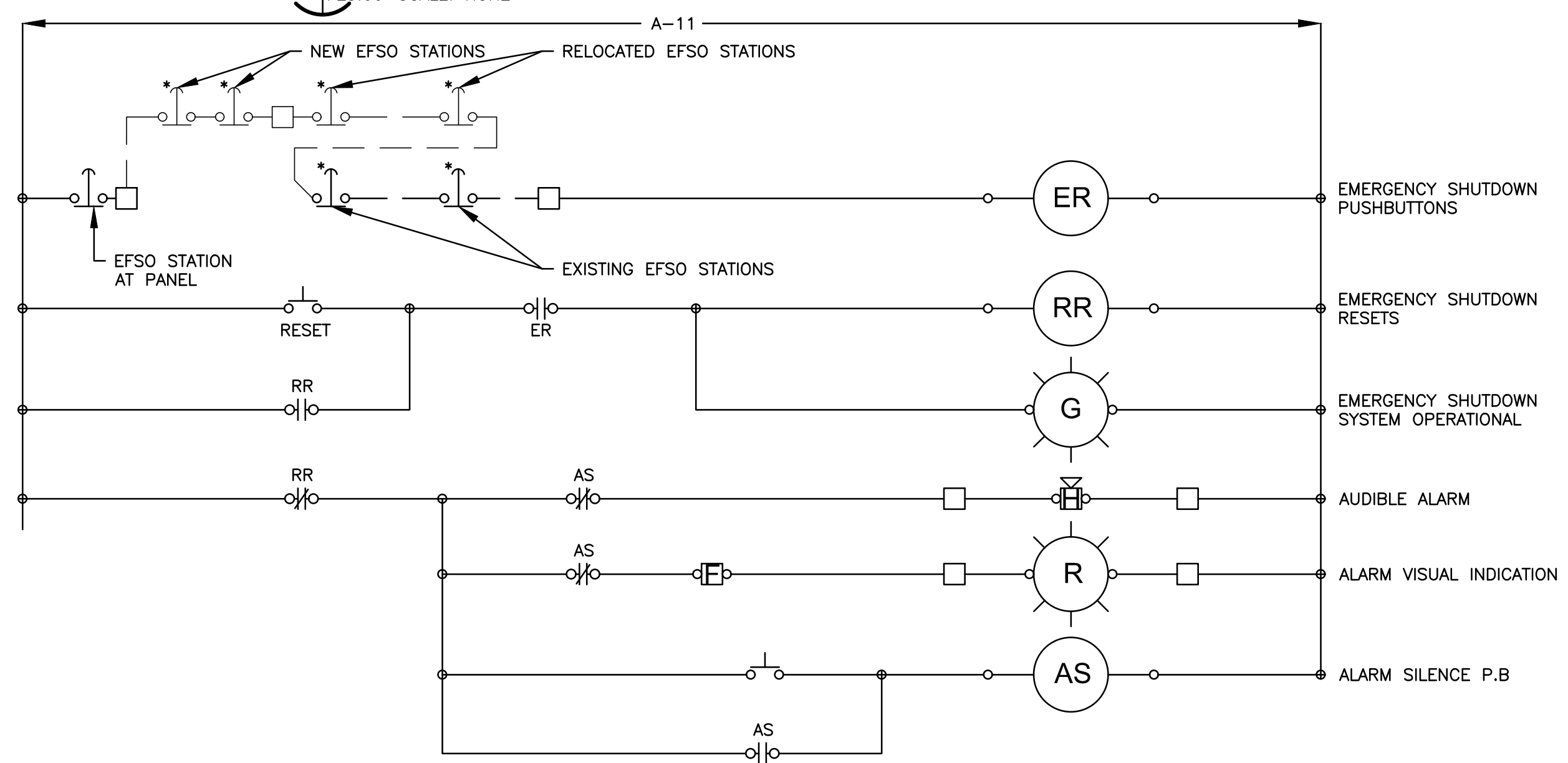
FE2.15

ISSUED FOR PERMIT



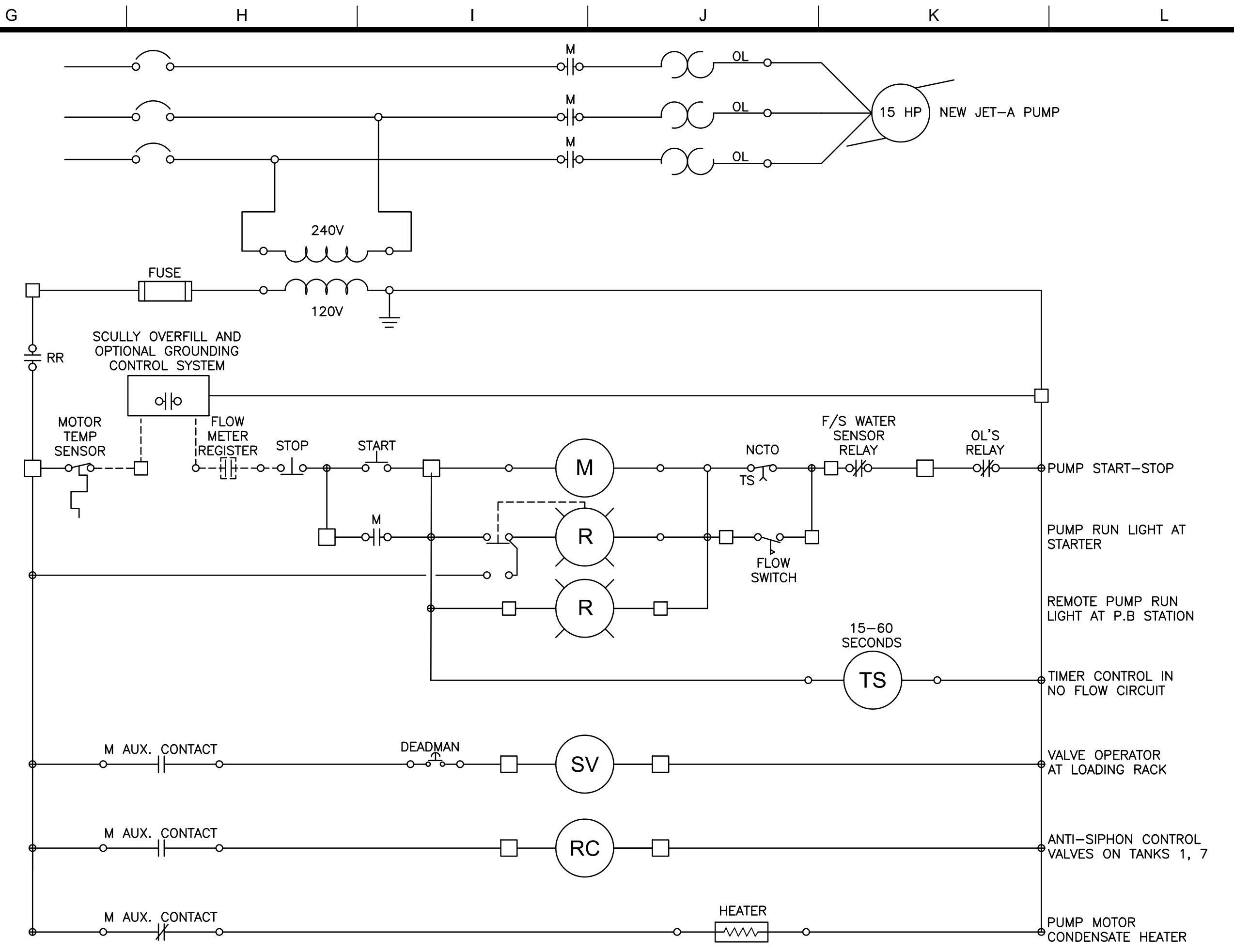
- NOTES:**
1. THE CONTRACTOR SHALL COORDINATE THE REPLACEMENT OF THE ELECTRICAL PANELS AND COMPONENT CONDUCTORS WITH THE OWNER/OPERATOR TO MINIMIZE THE IMPACT TO THE AIRPORT'S FUELING OPERATIONS
 2. THE NEW PANELS SHALL HAVE A STAINLESS STEEL ENCLOSURES
 3. THE COMBINATION BREAKER / STARTER PANELS SHALL INCLUDE STEP DOWN TRANSFORMER FOR CONTROLS AND HEATER CIRCUITS AND THE STARTER CONTACTOR SHALL INCLUDE AUX CONTACTS AS OUTLINED ON THE DETAIL #2 ON THIS SHEET AT A MINIMUM

1 PROPOSED ELECTRICAL ONE LINE DIAGRAM
FE3.00 SCALE: NONE



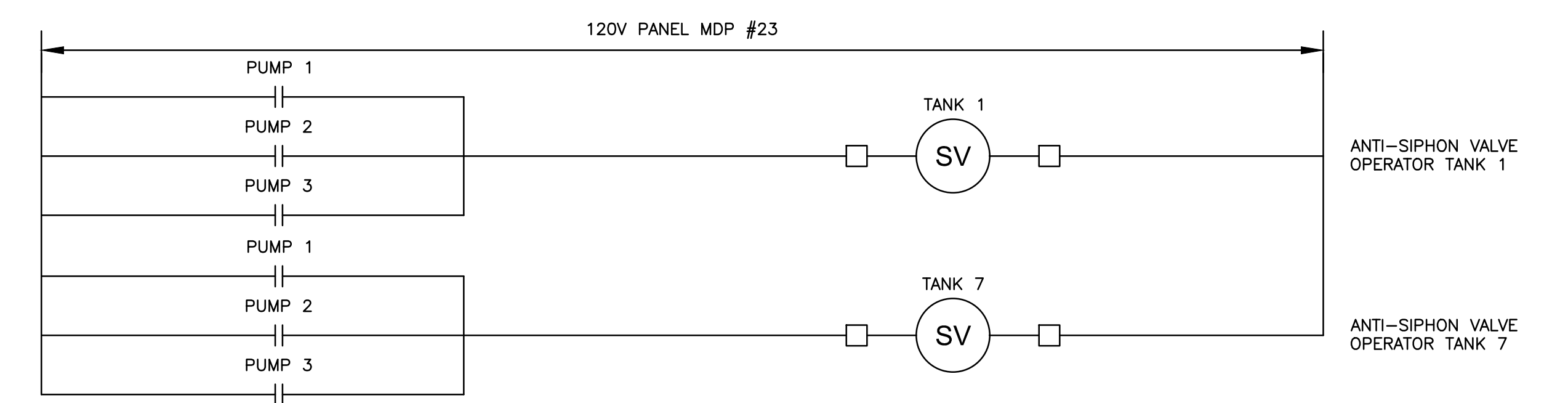
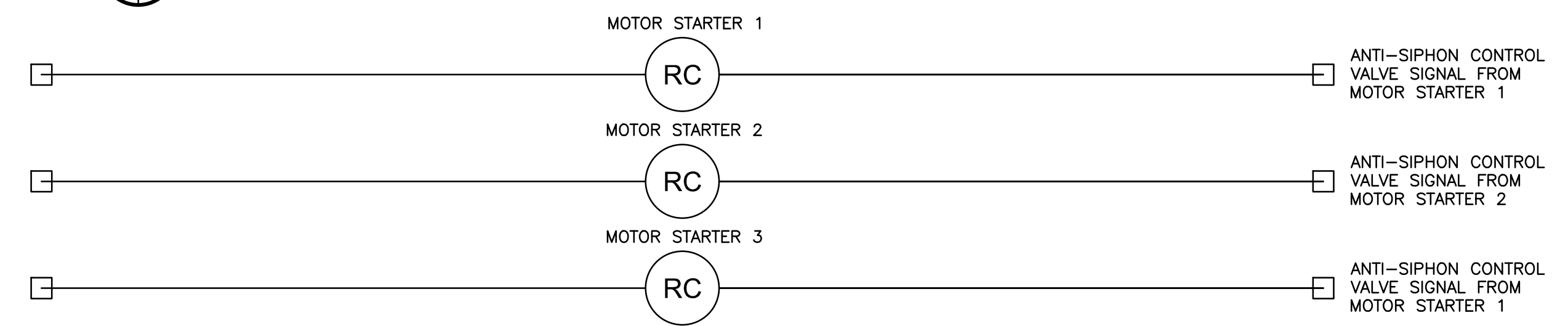
- NOTES:**
1. THE NEW AND RELOCATED EFSO PUSH STATIONS SHALL BE UPDATED WITH SIGNAGE PER DETAIL 3/FE4.01
 2. DURING NORMAL OPERATING CONDITIONS, THE RR COIL WILL BE ENERGIZED ALLOWING THE CONTROL RELAY(S) TO CLOSE ENABLING THE PERMISSIVES OR LIVE VOLTAGE CONDUCTOR FOR EACH PUMP. THE FOLLOWING EQUIPMENT SHALL BE DE-ENERGIZED/DISABLED WHEN AN EFSO PUSH STATION IS ACTIVATED; JET-A PUMP #1, JET-A PUMP #2, JET-A PUMP #3, AVGAS PUMP, MOGAS UNLOADING PUMP, DIESEL UNLOADING PUMP, FUEL DISPENSER, SUMP PUMP #1, SUMP PUMP #2 AND PRIST PUMP.
 3. THE PANEL SHALL ALSO HOUSE A 24 VDC POWER SUPPLY FOR EQUIPMENT REQUIRING DC POWER.

3 EFSO SYSTEM CONTROLS-SCHEMATIC (IN EFSO RELAY PANEL)
FE3.00 SCALE: NONE



- NOTES:**
1. THE CONFIGURATION SHOWN ABOVE IS FOR THE TYPICAL JET-A PUMP, RELAY CONTACTS FOR OTHER PUMPS ACCORDINGLY USING A NORMALLY OPEN AUXILIARY CONTACT ON THE MOTOR CONTACTOR TO OPERATE A MULTI CONTACT CONTROL RELAY FOR EACH PUMP TO OPEN THE ANTI-SIPHON VALVES AT THE TANKS.
 2. AS SHOWN ABOVE THE STEP DOWN CONTROL TRANSFER SHALL BE CONNECTED TO A NORMALLY CLOSED AUXILIARY CONTACTOR AND EXTENDED OUT TO THE ASSOCIATED PUMP MOTORS FOR THE HEATERS

2 PROPOSED MOTOR CONTROL SCHEMATIC DIAGRAM
FE3.00 SCALE: NONE



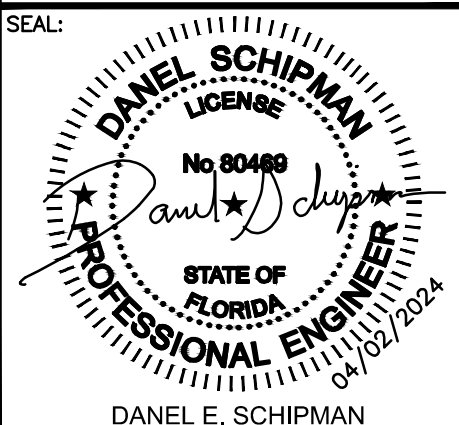


- NOTE:**
1. SPACE AND WIRING PROVISIONS SHALL BE LEFT IN THE PANEL TO ADD A FUTURE CONTROL RELAY FOR PUMP #4 WHEN CONVERTED OVER TO JET-A IN THE FUTURE

4 ANTI-SIPHON VALVE CONTROL - SCHEMATIC (IN EFSO RELAY PANEL)
FE3.00 SCALE: NONE

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
CONTROL & WIRING DIAGRAMS	
PROJECT NAME	FUEL FACILITY IMPROVEMENTS PROJECT
PROJECT LOCATION	NAPLES AIRPORT (APF)
DRAWING NAME	CONTROL & WIRING DIAGRAMS
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
DANIEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
DRAWN BY	D.E.S.
CHECKED BY	M.G.
DATE	04/02/2024
PROJECT NO.	23049
FILE NO.	23049FE300
SHEET NUMBER	FE3.00

CKT NO.	DESCRIPTION	CONDUCTORS	CABLE TYPE	FROM POINT	TO POINT	NOTES
FACILITY POWER						
C100	BACKUP POWER FEED FOR FACILITY	4#4/0 1#2/0 G IN 3"C	THWN	BACKUP GENERATOR	ATS	
C101	UTILITY POWER FEED FOR FACILITY	4#250 IN 3"C	THWN	UTILITY TRANSFORMER	ATS VIA METER AND DISCONNECT	
C102	POWER FEED FOR FACILITY	4#250 1#2/0 G IN 3"C	THWN	ATS	MAIN DISTRIBUTION PANEL (MDP)	
C103	PANEL A FEED	3#2 1#4 G IN 1-1/4"C	THWN	MDP PANEL CKT 11	DISTRIBUTION PANEL A	
C104	EMERGENCY DISTRIBUTION PANEL FEED	3#6 1#8 G IN 3/4"C	THWN	MDP PANEL CKT 17	EMERGENCY DISTRIBUTION PANEL	
C105	GENERATOR BATTERY CHARGER	2#12 1#12 G IN 3/4"C	THWN	MDP PANEL CKT 21	GENERATOR BATTERY CHARGER	
C106	EFSSO (E-STOP) / RELAY PANEL	2#12 1#12 G IN 3/4"C	THWN	MDP PANEL CKT 23	EFSSO (E-STOP) / RELAY PANEL	
C107	GATE S1 OPERATOR	2#10 1#10 G IN 3/4"C	THWN	PANEL A CKT #10	GATE S1 OPERATOR	
C108	RECEPTACLE ELECT. RACK & SW EFSSO PS	2#12 1#12 G IN 3/4"C	THWN	PANEL A CKT #14	RECEPTACLE AT SW EFSSO PUSH STATION	
C109	PRIST PUMP	3#12 1#12 IN 1"C	TC	PANEL A CKT #1	PRIST PUMP SWITCH	6, 8
C110	TEMPORAY POWER CROSSOVER FEED	4#4/0 IN 3"C	THWN	EXISTING ELECTRICAL RACK (E) ATS	(N) ATS	
PUMPS						
C120	JET-A PUMP MOTOR STARTER #1 (15HP)	3#6 1#8 IN 1"C	THWN	MDP PANEL CKT 2	JET-A PUMP MOTOR STARTER #1	
C121	JET-A PUMP MOTOR #1 POWER	3#6 1#8 IN 1-1/4"C	TC	MOTOR STARTER #1	PUMP MOTOR #1	6
C122	PUMP MOTOR #1 HEATER AND TEMP SENSOR	4#12 IN 1"C	TC	MOTOR STARTER #1 N.C. AUX & CC	PUMP MOTOR #1 HEATER & TEMP SW	6
C123	JET-A PUMP MOTOR STARTER #2 (15HP)	3#6 1#8 IN 1"C	THWN	MDP PANEL CKT 25	JET-A PUMP MOTOR STARTER #2	
C124	JET-A PUMP MOTOR #2 POWER	3#6 1#8 IN 1-1/4"C	TC	MOTOR STARTER #2	PUMP MOTOR #2	6
C125	PUMP MOTOR #2 HEATER AND TEMP SENSOR	4#12 IN 1"C	TC	MOTOR STARTER #2 N.C. AUX & CC	PUMP MOTOR #2 HEATER & TEMP SW	6
C126	JET-A PUMP MOTOR STARTER #3 (15HP)	3#6 1#8 IN 1"C	THWN	MDP PANEL CKT 26	JET-A PUMP MOTOR STARTER #3	
C127	JET-A PUMP MOTOR #3 POWER	3#6 1#8 IN 1-1/4"C	TC	MOTOR STARTER #3	PUMP MOTOR #3	6
C128	PUMP MOTOR #3 HEATER AND TEMP SENSOR	4#12 IN 1"C	TC	MOTOR STARTER #3 N.C. AUX & CC	PUMP MOTOR #3 HEATER & TEMP SW	6
C129	AVGAS PUMP MOTOR STARTER #4 (15HP)	3#6 1#8 IN 1"C	THWN	MDP PANEL CKT 8	AVGAS PUMP MOTOR STARTER #4	
C130	AVGAS PUMP MOTOR #4 POWER	3#6 1#8 IN 1-1/4"C	TC	MOTOR STARTER #4	PUMP MOTOR #4	6
C131	PUMP MOTOR #4 HEATER AND TEMP SENSOR	4#12 IN 1"C	TC	MOTOR STARTER #4 N.C. AUX & CC	PUMP MOTOR #4 HEATER & TEMP SW	6
C132	MOGAS PUMP MOTOR STARTER (2HP)	3#12 1#12 IN 3/4"C	THWN	MDP PANEL CKT 14	MOGAS PUMP MOTOR STARTER	
C133	MOGAS PUMP MOTOR (2HP)	3#12 1#12 IN 1"C	TC	MOGAS PUMP MOTOR STARTER	MOGAS PUMP MOTOR	6
C134	DIESEL PUMP MOTOR STARTER (2HP)	3#12 1#12 IN 3/4"C	THWN	MDP PANEL CKT 20	DIESEL PUMP MOTOR STARTER	
C135	DIESEL PUMP MOTOR (2HP)	3#12 1#12 IN 1"C	TC	DIESEL PUMP MOTOR STARTER	DIESEL PUMP MOTOR	6
C136	SUMP PUMP #1 MOTOR STARTER (15HP)	3#6 1#8 IN 1C	THWN	MDP PANEL CKT #25	COMB DISCO & STARTER SUMP PUMP #1	
C137	SUMP PUMP #1 MOTOR (15HP)	3#6 1#8 IN 1-1/4"C	TC	COMB DISCO & STARTER SUMP PUMP #1	SUMP PUMP MOTOR #1 (VIA LOCAL DISCO)	6
C138	SUMP PUMP #2 MOTOR STARTER (7.5HP)	3#10 1#10 IN 3/4"C	THWN	MDP PANEL CKT #26	COMB DISCO & STARTER SUMP PUMP #2	
C139	SUMP PUMP #2 MOTOR (7.5HP)	3#10 1#10 IN 1"C	TC	COMB DISCO & STARTER SUMP PUMP #2	SUMP PUMP MOTOR #2 (VIA LOCAL DICSO)	6
LOADING/ UNLOADING RACK CONTROLS						
SOUTHWEST LOADING RACK (JET-A)						
C140	CONTROLS EQUIP POWER & SIGNAL	12#14 IN 1-1/4"C	TC	MOTOR STARTER #1	CONTROLS JUNCTION BOX #1	1 & 6
C141	SCULLY / PUMP CONTROLS	5#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	SCULLY PANEL #1	1 & 2
C142	FLOW METER PERMISSIVE	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	METER REGISTER CONTACTS SW	1 & 2
C143	START/STOP PUMP CONTROLS	3#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	START/STOP PUSHBUTTON STATION #1	1 & 2
C144	DEADMAN/LOADING SOLENOID VALVE CONTROL	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	SOUTHWEST LOADING RACK VALVE	1 & 3
C145	HIGH WATER SENSOR	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	FILTER SEPARATOR #1	1 & 2
C146	FLOW SWITCH	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #1	FLOW SWITCH #1	1 & 2
C147	CONTROL SIGNAL EFSSO PERMISSIVE JET-A #1	2#14	THWN	MOTOR STARTER #1	EFSSO/RELAY PANEL	
EAST LOADING RACK (JET-A)						
C150	CONTROLS EQUIP POWER & SIGNAL	12#14 IN 1-1/4"C	TC	MOTOR STARTER #2	CONTROLS JUNCTION BOX #2	1 & 6
C151	SCULLY / PUMP CONTROLS	5#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #2	SCULLY PANEL #2	1 & 2
C152	FLOW METER PERMISSIVE	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #2	METER REGISTER CONTACTS E	1 & 2
C153	START/STOP PUMP CONTROLS	3#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #2	START/STOP PUSHBUTTON STATION #2	1 & 2
C154	DEADMAN/ LOADING SOLENOID VALVE CONTROL	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #2	EAST LOADING RACK VALVE	1 & 3
C155	HIGH WATER SENSOR	4#14 IN 3/4"C	TC	CONTROLS JUNCTION BOX #2	FILTER SEPARATOR #2	1 & 2
C156	FLOW SWITCH	4#14 IN 3/4"C	TC	CONTROLS JUNCTION BOX #2	FLOW SWITCH #2	1 & 2
C157	CONTROL SIGNAL EFSSO PERMISSIVE JET-A #2	2#14	THWN	MOTOR STARTER #2	EFSSO/RELAY PANEL	
NORTH LOADING/ UNLOADING RACK CONTROLS (JET-A)						
C160	CONTROLS EQUIP POWER & SIGNAL	12#14 IN 1-1/4"C	TC	MOTOR STARTER #3	CONTROLS JUNCTION BOX #3	1 & 6
C161	SCULLY / PUMP CONTROLS	5#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	SCULLY PANEL #3	1 & 2
C162	FLOW METER PERMISSIVE	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	METER REGISTER CONTACTS N	1 & 2
C163	START/STOP PUMP CONTROLS	3#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	START/STOP PUSHBUTTON STATION #3	1 & 2
C164	DEADMAN/LOADING SOLENOID VALVE CONTROL	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	NORTH LOADING RACK VALVE	1 & 3
C165	HIGH WATER SENSOR	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	FILTER SEPARATOR #3	1 & 2
C166	FLOW SWITCH	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #3	FLOW SWITCH #3	1 & 2
C167	CONTROL SIGNAL EFSSO PERMISSIVE JET-A #3	2#14	THWN	MOTOR STARTER #3	EFSSO/RELAY PANEL	
SOUTHEAST LOADING/ UNLOADING RACK (AVGAS)						
C170	CONTROLS EQUIP POWER & SIGNAL	12#14 IN 1-1/4"C	TC	MOTOR STARTER #4	CONTROLS JUNCTION BOX #4	1 & 6
C171	SCULLY / PUMP CONTROLS	5#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	SCULLY PANEL #4	1 & 2
C172	FLOW METER PERMISSIVE	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	METER REGISTER CONTACTS SW	1 & 2
C173	START/STOP PUMP CONTROLS	3#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	START/STOP PUSHBUTTON STATION #4	1 & 2
C174	DEADMAN/LOADING SOLENOID VALVE CONTROL	2#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	SOUTHEAST LOADING RACK VALVE	1 & 3
C175	HIGH WATER SENSOR	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	FILTER SEPARATOR #4	1 & 2
C176	FLOW SWITCH	4#14 IN 3/4"C	THWN	CONTROLS JUNCTION BOX #4	FLOW SWITCH #4	1 & 2
C177	CONTROL SIGNAL EFSSO PERMISSIVE AVGAS	2#14	THWN	MOTOR STARTER #4	EFSSO/RELAY PANEL	
MOGAS AND DIESEL SYSTEMS						
C180	MOGAS UNLOADING CONTROLS	3#12 IN 3/4"C	TC	MOGAS MOTOR STARTER	MOGAS START/STOP CONTROLS	6
C181	DIESEL UNLOADING CONTROLS	3#12 IN 3/4"C	TC	DIESEL MOTOR STARTER	DIESEL START/STOP CONTROLS	6
C182	MOGAS & DIESEL DISPENSER	3#10 IN 3/4"C	TC	PANEL A CKT #2	MOGAS & DIESEL DISPENSER	6, 8
C183	FUEL FORCE 814 FUEL MANGMT CONTROLLER	3#12 IN 3/4"C	TC	PANEL A CKT #6	FUEL FORCE 814 CONTROLLER (FMU)	6
C184	FUEL FORCE COMMUNICATIONS	CAT6 IN 1"C BELDON 7969A	TC	FUEL FORCE 814 CONTROLLER (FMU)	ELECT ROOM SWITCH MODEM	6, 9
C185	DISPENSER SIGNALS AND CONTROLS	4#14, 2#18, BELDON 9502 3/4"	THWN & TC	FUEL FORCE 814 CONTROLLER (FMU)	MOGAS & DIESEL DISPENSER	7
C186	CONTROL SIGNAL EFSSO PERMISSIVE MOGAS	2#14	THWN	MOTOR STARTER #5	EFSSO/RELAY PANEL	
C187	CONTROL SIGNAL EFSSO PERMISSIVE DIESEL	2#14	THWN	MOTOR STARTER #6	EFSSO/RELAY PANEL	
C188	CONTROL SIGNAL SUMP PUMP #1	4#14 IN 3/4"C	TC	COMB DISCO & STARTER SUMP PUMP #1	SUMP PIT #1 CONTROL FLOAT	6, 8
C189	CONTROL SIGNAL SUMP PUMP #2	4#14 IN 3/4"C	TC	COMB DISCO & STARTER SUMP PUMP #2	SUMP PIT #2 CONTROL FLOAT	6, 8

DATE																				
REVISIONS																				
 		FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)		CIRCUIT SCHEDULE SHEET 1		PROJECT NAME PROJECT LOCATION DRAWING NAME	ISSUED FOR PERMIT CURRIER & CO, INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050													
		DANEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025		DESIGNED BY: D.E.S. DRAWN BY: M.G. APPROVED BY: D.E.S. SHEET NUMBER:	DATE: 04/02/2024 PROJ. NO: 23049 FILE NAME: 23049FE301	ISSUED FOR PERMIT FE3.01														

1 **CIRCUIT SCHEDULE - SHEET 1**
SCALE: NONE

CKT NO.	DESCRIPTION	CONDUCTORS	CABLE TYPE	FROM POINT	TO POINT	NOTES
ELECTRONIC METER REGISTER						
C190	JET-A LOAD RACK METER #1 SW POWER	3#16 IN 3/4"C	TC	DC POWER FROM THE EFSO/RELAY PANEL	FLOWMETER REGISTER JET A #1 SW	6
C191	JET-A LOAD RACK METER #1 SW DATA	9#22 IN 3/4"C	TC	TCS3000 REGISTER #1	X1 AT JET-A #1 SW LOADING RACK	
C192	JET-A LOAD RACK METER #2 E POWER	3#16 IN 3/4"C	TC	DC POWER FROM THE EFSO/RELAY PANEL	FLOWMETER REGISTER JET A #2 E	6
C193	JET-A LOAD RACK METER #2 E DATA	9#22 IN 3/4"C	TC	TCS3000 REGISTER #2	X1 AT JET-A #2 E LOADING RACK	
C194	JET-A LOAD RACK METER #3 N POWER	3#16 IN 3/4"C	TC	DC POWER FROM THE EFSO/RELAY PANEL	FLOWMETER REGISTER JET A #3 N	6
C195	JET-A LOAD RACK METER #3 N DATA	9#22 IN 3/4"C	TC	TCS3000 REGISTER #3	X1 AT JET-A #3 N LOADING RACK	
C196	AVGAS LOAD RACK METER #4 SE POWER	3#16 IN 3/4"C	TC	DC POWER FROM THE EFSO/RELAY PANEL	FLOWMETER REGISTER AVGAS #4 SE	6
C197	AVGAS LOAD RACK METER #4 SE DATA	9#22 IN 3/4"C	TC	TCS3000 REGISTER #4	X1 AT AVGAS SE LOADING CONTROLS RACK	
	24VDC POWER SUPPLY	3#12	THWN		EFSSO/RELAY PANEL	
TANK LEVEL PROBE						
C200	TANK #10 LEVEL PROBE SIGNAL (ADD ALT)	2#18 SHEILDED W/DRAIN 1"	TC	TLS-450 CONSOLE	TANK #10 LEVEL PROBE	6, 9
EFSSO SYSTEM						
C210	RELOCATED NORTHEAST EFSSO PUSHSTATION	3#12 IN 3/4"C	TC	EFSSO/RELAY PANEL	NORTH WEST EFSSO PUSH STATION	6
C211	RELOCATED SOUTHEAST EFSSO PUSHSTATION	3#12 IN 3/4"C	THWN	NORTH EAST EFSSO PUSH STATION	SOUTH EAST EFSSO PUSH STATION	
C212	(N) EFSSO PUSH STATION SOUTHWEST	3#12 IN 3/4"C	TC	EFSSO/RELAY PANEL	SOUTH WEST EFSSO PUSH STATION	6
C213		3#12 IN 3/4"C	TC	SOUTH WEST EFSSO PUSH STATION	SOUTH CENTRAL EFSSO PUSH STATION	
C214	(N) EFSSO PUSH STATION NORTH LOADING RACK	3#12 IN 3/4"C	TC	SOUTH CENTRAL EFSSO PUSH STATION	NORTH LOADING RACK PUSH STATION	6
OWS						
C220	OWS ALARM SWITCH	3#12 IN 3/4"C	TC	PANEL A BKR #3	OWS HIGH LEVEL SWITCH	6
C221	OWS ALARM LIGHT	3#12 IN 3/4"C	THWN	OWS HIGH LEVEL SWITCH	ALARM INDICATOR LIGHT	
C222	OWS LEVEL SHUTOFF PERMISSIVE FOR SUMPS	2#12 IN 3/4"C	TC	OWS HIGH LEVEL SWITCH	CONTROL RELAY IN EFSSO/RELAY PANEL	6, 8
LIGHTING						
C230	EAST LOADING ISLAND CANOPY LIGHTING	3#10 IN 3/4"C	TC	MAIN LIGHTING CONTACTOR	EAST LOADING RACK CANOPY	6
C231	FUEL FACILITY LIGHT POLE LIGHTS	3#10 IN 3/4"C	TC	MAIN LIGHTING CONTACTOR	NORTHWEST (E) LIGHT POLE FIXTURE	6
C232	REFEED TO SOUTHEAST LIGHT POLE	3#10 IN 3/4"C	THWN	NORTHEAST (E) LIGHT POLE	SOUTHEAST RELOCATED LIGHT POLE	
C233		3#10 IN 3/4"C	THWN	LIGHTING DISTRIBUTION PANEL	GATE S1 LIGHT POLE	
C234	SW FUEL FACILITY LP AND E AIRPORT PARK LOT	3#10 IN 3/4"C	THWN	LIGHTING DISTRIBUTION PANEL	SOUTHWEST LIGHT POLE(AIRPORT PRKG)	
C235	LIGHTING CONTROLLER AT ELECTRIC RACK	3#10 IN 1"C	THWN	PANEL A CKT #20	LIGHTING CONTROLLER AT ELECT RACK	
C236	PHOTO CELL LIGHTING CONTROL	2#12 IN 3/4"C	THWN	LIGHTING CONTROLLER AT ELECT RACK	PHOTO CELL CONTROLLER	
C237	LIGHTING DISTRIBUTION PANEL FEED	3#6 1#8 G IN 1"C ABOVE	THWN	PANEL A BKR #22	LIGHTING DISTRIBUTION PANEL VIA CNTLR	
C238	ELECTRICAL RACK CANOPY LIGHT CONTROL	4#12 IN 3/4"C	THWN	LIGHTING CONTROLLER AT ELECT RACK	CANOPY LIGHTS HOA SWITCH	
C239	ELECTRICAL RACK CANOPY LIGHTS	3#12 IN 3/4"C	THWN	CANOPY LIGHTS HOA SWITCH	ELECTRICAL RACK CANOPY LIGHTS	
ANTI-SIPHON VALVES						
C240	TANK #1 ANTI-SIPHON VALVE	2#16 IN 3/4"C	TC	EFSSO/RELAY PANEL	ANTI-SIPHON VALVE SOLENOID TANK #1	6
C241	TANK #7 ANTI-SIPHON VALVE	2#16 IN 3/4"C	TC	EFSSO/RELAY PANEL	ANTI-SIPHON VALVE SOLENOID TANK #7	6
C242	JET-A PUMP MOTOR #1 ACTIVATION SIGNAL	2#12	THWN	MOTOR STARTER #1 AUX CONTACT	EFSSO/RELAY PANEL	
C243	JET-A PUMP MOTOR #2 ACTIVATION SIGNAL	2#12	THWN	MOTOR STARTER #2 AUX CONTACT	EFSSO/RELAY PANEL	
C244	JET-A PUMP MOTOR #3 ACTIVATION SIGNAL	2#12	THWN	MOTOR STARTER #3 AUX CONTACT	EFSSO/RELAY PANEL	
REPLACEMENT CONDUCTORS						
C250	SERURITY CAMERA / COMMUNICATIONS	(3) 8#23 CAT6 IN 1"C	TC	ELECTRICAL ROOM / ROUTER	SOUTHWEST LIGHT POLE	5, 9
C251	COMMUNICATION CABLE - 12 STD FIBER OPTIC	12 FO IN 1" CONDUIT	TC	FACILITIES BUILDING / ROUTER	ELECTRICAL ROOM / ROUTER	
SPARE CONDUITS						
C260		W/PULL STRING		ELECT GUTTER WEST OF BLDG ELECT RM	ELECT GUTTER WEST OF LADDER RACK	
C261	1" SPARE	W/PULL STRING		ELECT GUTTER WEST OF BLDG ELECT RM	ELECT GUTTER WEST OF LADDER RACK	
C262	1-1/4" SPARE	W/PULL STRING		MAIN ELECTRICAL RACK GUTTER	ELECT GUTTER WEST OF LADDER RACK	
C263	1-1/4" SPARE	W/PULL STRING		MAIN ELECTRICAL RACK GUTTER	ELECT GUTTER WEST OF LADDER RACK	
C264	1" SPARE	W/PULL STRING		MAIN ELECTRICAL RACK GUTTER	ELECT GUTTER WEST OF LADDER RACK	
C265	1" SPARE	W/PULL STRING		MAIN ELECTRICAL RACK GUTTER	ELECT GUTTER WEST OF LADDER RACK	
C266	2-1/2" SPARE	W/PULL STRING		MAIN ELECTRICAL RACK GUTTER	ELECT GUTTER WEST OF LADDER RACK	
NOTES:						
1	THE 12#14 TRAY CABLE INSTALLED BETWEEN THE MOTOR STARTERS AND THE CONTROL JUNCTION BOXES AT THE LOADING RACKS INCLUDES THE FOLLOW POWER AND SIGNAL CONDUCTORS: 3#14 FOR POWER AND GROUNDING OF THE POWERED CONTROL COMPONENTS, 1#14 FOR THE PUMP CONTROL SIGNAL FROM THE OUTPUT FROM THE PUMP MOTOR TEMPERATUE SENSOR TO THE SCULLY SYSTEM PERMISSIVE RELAY, 2#14 SIGNAL CONDUCTORS FOR PUMP STOP/START CONTROLS, 2#14 SIGNAL WIRES FOR THE WATER SENSOR RELAY, 2#14 SIGNAL WIRES FOR THE FLOW SWITCH CONTROL SIGNAL AND 2#14 CONDUCTORS TO GO THROUGH THE DEADMAN TO THE UNLOADING RACK CONTROL VALVE.					
2	EXTEND CONDUCTORS VIA TERMINAL BLOCK CONNECTIONS IN THE CONTROL JUNCTION BOX THROUGH ALL THE CONTROL AND SHUTDOWN COMPONENTS AS INDICATED ON DETAIL 2 OF FE3.00 TO COMPLETE THE PUMP CONTROL CIRCUIT					
3	EXTEND CONDUCTORS VIA TERMINAL BLOCK CONNECTIONS IN THE CONTROL JUNCTION BOX FROM THE MOTOR STARTER N.O. AUX CONTACTS TO THE DEAMAN & ON TO THE CONTROL VALVE SOLNOID					
4	COMPLETE THE TANK ANTI-SIPHON VALVE CONTROL CIRCUITS AS INDICATED IN DETAILS 2 AND 4 ON FE3.00					
5	STANDARD PLENUM RATED CAT6 IS ACCEPTABLE FOR THESE CABLE RUNS					
6	ALL CONDUCTORS RUN IN THE FIELD IDENTIFIED AS TC (TRAY CABLE) SHALL BE PROVIDED AS FOLLOWS SUN RESISTANT DIRECT BURIED RATED 0 HALOGEN JACKETED CABLE SUCH AS ENVIROPLUS XHHW-2 TC-ER BY SERVICES WIRE CO. OR EQUIVALENT					
7	INSTALL THE FOLLOWING CONDUCTORS IN A 3/4" GRC BETWEEN THE FUEL FORCE CONTROLLER AND THE DISPENSER: 4 RED #14, 2 BLUE #18 AND 1 BELDON 9502 3/4" PULSER CABLE					
8	THE CONDUCTOR PATH FOR THIS CIRCUIT SHALL HAVE THE LIVE WIRE LOOP THROUGH AN EFSSO CONTROL RELAY BEFORE PROCEEDING TO THE EQUIPMENT IN THE FIELD (THWN WIRE CAN BE USED FOR THIS PORTION OF THE CIRCUIT)					
9	THE CONTRACTOR SHALL TAKE CARE TO ROUTE THIS CONDUCTOR SO IT IS NOT IN CLOSE PROMITY TO ANY CONDUCTORS CARRYING 240 VAC POWER IN ORDER TO MINIMIZE INTERFERENCE					

1 **CIRCUIT SCHEDULE - SHEET 2**
SCALE: NONE

DATE	
REVISIONS	



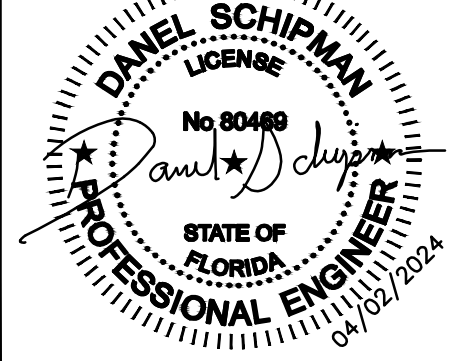

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)
CIRCUIT SCHEDULE SHEET 2

PROJECT NAME
PROJECT LOCATION
DRAWING NAME

ISSUED FOR PERMIT

CURRIER & CO, INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL:



DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80469 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE302
SHEET NUMBER:	

FE3.02

ISSUED FOR PERMIT

EXISTING PANEL "MDP" SCHEDULE									
200A MCB AT 240/120V, 3Ø, 4W, MIN 65K AIC RATING, NEMA 3R ENCLOSURE									
CKT	DESCRIPTION	BKR/P	VA A	VA B	VA C	BKR/P	DESCRIPTION	CKT	
1	DEADMAN	20A/1P	150	5577				2	
3	SPARE			5577			60A/3P	JET-A PUMP #1 (15 HP)	4
5	MOTOR HEATERS/CONTROL CIRCUIT ???	20A/1P			5577				6
7	?	15A/1P		5577					8
9	SPARE			5577			60A/3P	JET-A PUMP #4 (15 HP)	10
11	PANEL "A"	100A/2P	7603.7	903		4091.7	5577		12
13									14
15	SPARE			903			20A/3P	MOGAS PUMP (2 HP)	16
17	EMERGENCY PANEL	60A/2P			1533	903			18
19			2063	903					20
21	SPARE				903		20A/3P	DIESEL PUMP (2 HP)	22
23	GENERATOR BATTERY CHARGER	20A/1P			300	903			24
25			5577	5577					26
27	JET-A PUMP #2 (15 HP)	60A/3P		5577	5577		60A/3P	JET-A PUMP #3 (15 HP)	28
29					5577	5577			30
31									32
33									34
36									36
TOTAL:			15393	18537	5577	18537	11501	18537	
PHASE A (VA):		33930							
PHASE B (VA):		24114							
PHASE C (VA):		30038							
TOTAL CONNECTED LOAD:		88083	DEMAND FACTOR: 90%			TOTAL DEMAND LOAD: 79274		VA	

1 EXISTING PANEL "MDP" SCHEDULE
SCALE: NONE

PROPOSED PANEL "MDP" SCHEDULE									
250A MCB AT 240/120V, 3Ø, 4W, MIN 65K AIC RATING, NEMA 3R ENCLOSURE									
CKT	DESCRIPTION	BKR/P	VA A	VA B	VA C	BKR/P	DESCRIPTION	CKT	
1			8464	8464				2	
3	JET-A PUMP #1 (15 HP)	60A/3P		8464	8464		60A/3P	JET-A PUMP #2 (15 HP)	4
5					8464	8464			6
7			8464	9504					8
9	JET-A PUMP #3 (15 HP)	60A/3P		8464	9504		60A/3P	JET-A PUMP #4 (15 HP)	10
11					8464	9504			12
13	PANEL "A"	100A/2P	8329	903					14
15				5510	903		20A/3P	MOGAS PUMP (2 HP)	16
17	EMERGENCY PANEL	60A/2P			2063	903			18
19			1533	903					20
21	GENERATOR BATTERY CHARGER	20A/1P		300	903		20A/3P	DIESEL PUMP (2 HP)	22
23	EFSO / RELAY PANEL	20A/1P			324	903			24
25			9360	5280					26
27	SUMP PUMP #1 (15HP)	30A/3P		9360	5280		60A/3P	SUMP PUMP #2 (7.5HP)	28
29					9360	5280			30
31									32
33	SPARE			0	0				34
36					0	0			36
TOTAL:			36150	25054	32098	25054	28675	25054	
PHASE A (VA):		61204							
PHASE B (VA):		57152							
PHASE C (VA):		53729							
TOTAL CONNECTED LOAD:		172084	DEMAND FACTOR: 98%			TOTAL DEMAND LOAD: 169375		VA	

3 PROPOSED PANEL "MDP" SCHEDULE
SCALE: NONE

EXISTING PANEL "A" SCHEDULE									
100A MCB AT 120/240V, 1Ø, 1P 3W, MIN 10K AIC RATING, NEMA 3R ENCLOSURE									
CKT	DESCRIPTION	BKR/P	VA A	VA C	BKR/P	DESCRIPTION	CKT		
1	SUMP PUMP 2 (NORTH)	20A/2P	917	75		30A/2P	MOGAS & DIESEL FUEL DISPENSER	2	
3				917	75			4	
5	LIGHT AT GATE 1S	20A/2P	805	805		20A/1P	RECEPTACLE AT ELECTRICAL RACK	6A	
7			35	805		20A/1P	RECEPTACLE IN FIBER CABINET	6B	
9	PRIST PUMP	20A/1P	1587	917	35	20A/1P	SPARE	8	
11	EFSO (E-STOP) & HIGH LEVEL	20A/1P		70	917	20A/2P	SUMP PUMP 1 (MIDDLE)	10	
13	NORTH POLE LIGHT FUEL FACILITY	20A/1P	140	315		20A/1P	AVGAS / JET-A HEATERS / CONTROL	14	
15	SPARE				1587	20A/2P	GATE 1S OPERATOR	16	
17		20A/2P		1587				18	
19	LIGHT POLE IN TANK AREA	20A/1P		70	420	20A/2P	LIGHTING SUBPANEL SW FUEL FACILITY AND AIRPORT PARKING LOT	20	
21	MAIN BREAKER	100A/2P		420				22	
23									
TOTAL:			2679	4924	1092	2999			
PHASE A (VA):		7604							
PHASE C (VA):		4092							
TOTAL CONNECTED LOAD:		11695	DEMAND FACTOR: 90%			TOTAL DEMAND LOAD: 10526		VA	

2 EXISTING PANEL "A" SCHEDULE
SCALE: NONE

PROPOSED PANEL "A" SCHEDULE									
100A MCB AT 120/240V, 1Ø, 1P 3W, MIN 10K AIC RATING, NEMA 3R ENCLOSURE									
CKT	DESCRIPTION	BKR/P	VA A	VA B	BKR/P	DESCRIPTION	CKT		
1	PRIST PUMP	20A/1P	1587	1587			2		
3	OWS HIGH LEVEL PRODUCT INDICATOR	20A/1P		70	1587	30A/2P	MOGAS & DIESEL FUEL DISPENSER	4	
5			917	575		20A/1P	FUEL FORCE 814 CONTROLLER	6	
7				917	860	20A/1P	RECEPTACLE AT RACK & SW EFSO	8	
9			1587	1656				10	
11					1656	20A/2P	GATE 1S OPERATOR	12	
13						20A/1P	SPARE	14	
15						20A/1P	SPARE	16	
17	SPARE	20A/1P				20A/1P	SPARE	18	
19	SPARE	20A/1P				20A/1P	LIGHTING CONTROL POWER	20	
21	MAIN BREAKER	100A/2P		420		50A/2P	LIGHTING SUBPANEL SW FUEL FACILITY AND AIRPORT PARKING LOT	22	
23					420			24	
TOTAL:			4091	4238	987	4523			
			0						
PHASE A (VA):		8329							
PHASE C (VA):		5510							
TOTAL CONNECTED LOAD:		13839	DEMAND FACTOR: 100%			TOTAL DEMAND LOAD: 13839		VA	

4 PROPOSED PANEL "A" SCHEDULE
SCALE: NONE

PANEL "EMERGENCY" SCHEDULE									
50A MLO AT 120/240V, 1Ø, 2P 3W, MIN 22K AIC RATING, NEMA 1 ENCLOSURE									
CKT	DESCRIPTION	BKR/P	VA C	VA A	BKR/P	DESCRIPTION	CKT		
1	VEEDER-ROOT TLS-450	15A/1P	180			50A/2P	MAIN BREAKER	2	
3	SPARE	20A/1P						4	
5	OVERFILL AND LEAK DETECTOR ALARM	15A/1P	140			15A/1P	BLANK	6	
7		20A/1P				20A/1P		8	
9	PHOTOCELL CANOPY LIGHT	15A/1P	50	160		15A/1P	CANOPY LIGHTING CONTROL POWER	10	
11					783			12	
13				783		20A/2P	CANOPY LIGHTS	14	
15					750			16	
17				750		20A/2P	CANOPY LIGHTS	18	
TOTAL:			370	1693	0	1533			
PHASE C (VA):		2063							
PHASE A (VA):		1533							
TOTAL CONNECTED LOAD:		3596	DEMAND FACTOR: 100%			TOTAL DEMAND LOAD: 3596		VA	

5 PANEL "EMERGENCY" SCHEDULE
SCALE: NONE

DATE: _____

REVISIONS: _____




FUEL FACILITY IMPROVEMENTS PROJECT

NAPLES AIRPORT (APF)

PANEL SCHEDULES

PROJECT NAME: _____

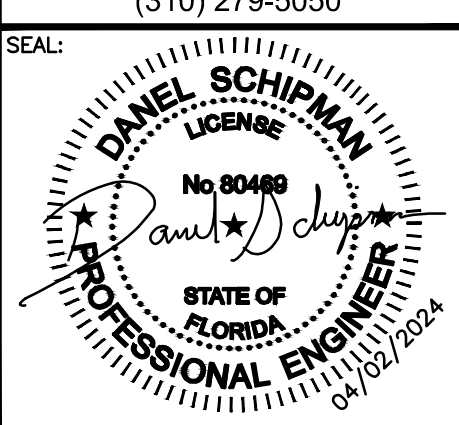
PROJECT LOCATION: _____

DRAWING NAME: _____

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

SEAL: _____

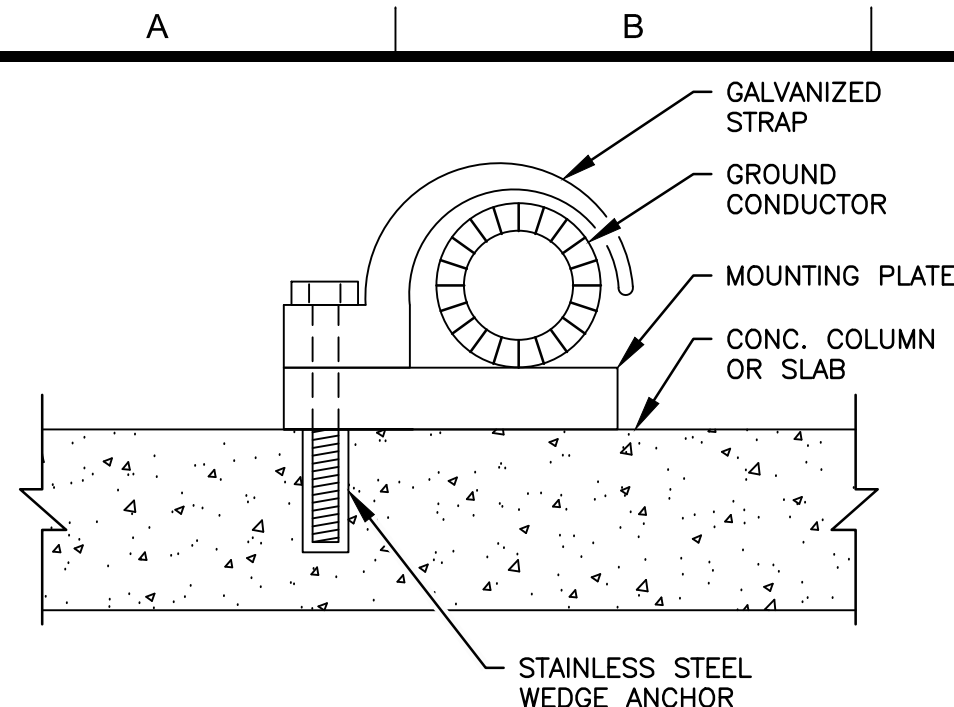


DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80469 - EXPIRES 02/28/2025

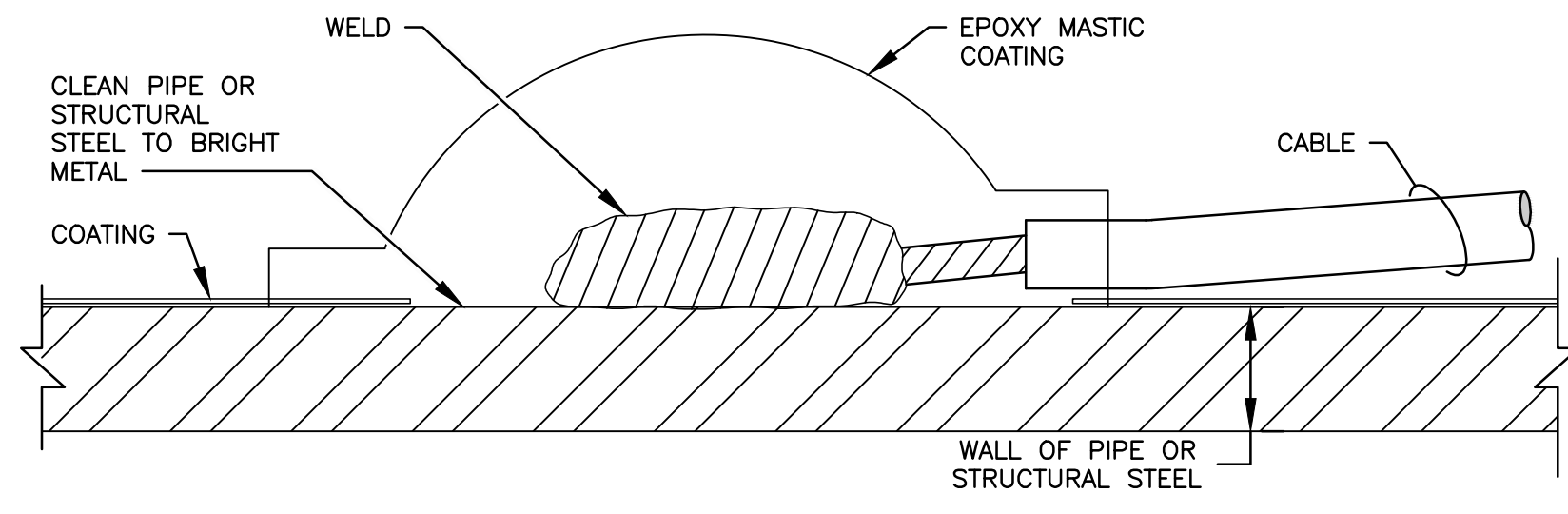
DESIGNED BY: D.E.S. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE303
SHEET NUMBER: _____

FE3.03

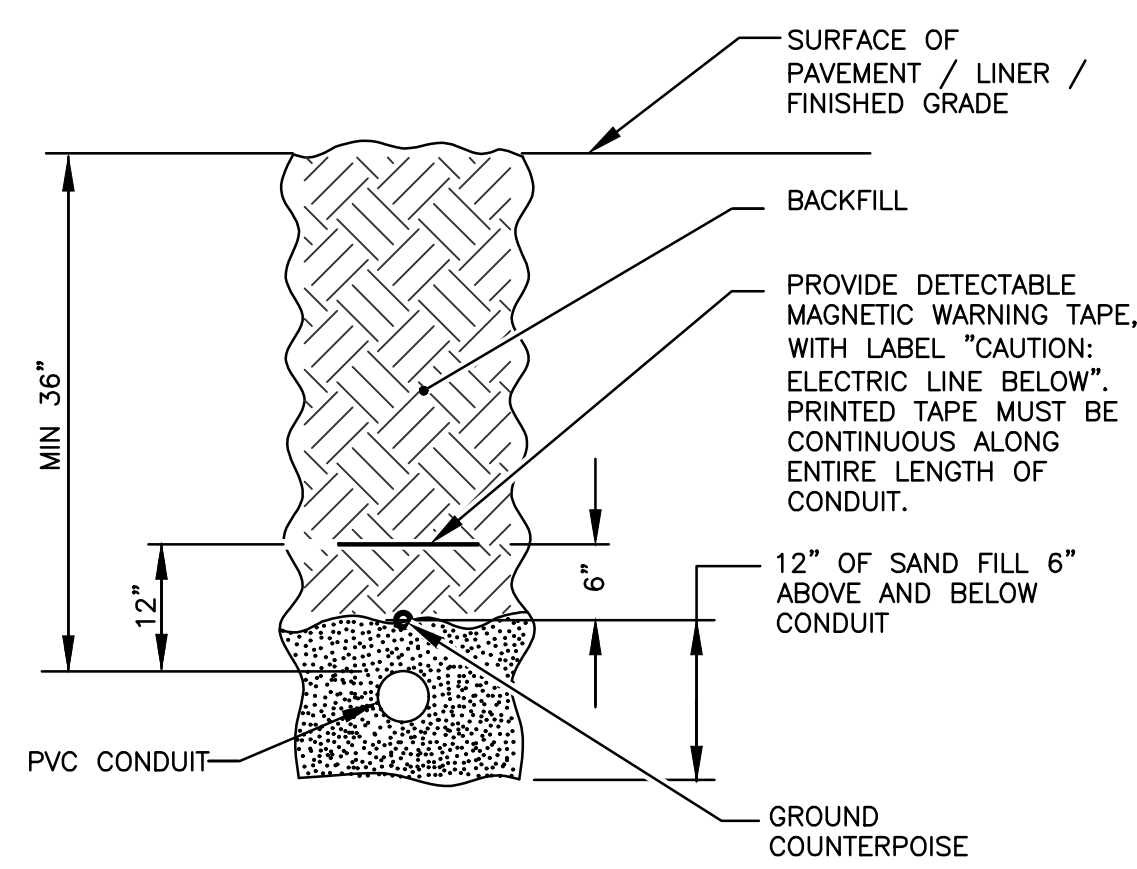
ISSUED FOR PERMIT



1 TYPICAL ATTACHMENT OF GROUND CONDUCTOR
FE4.00 SCALE: NONE



2 TYPICAL EXOTHERMIC WELD
FE4.00 SCALE: NONE

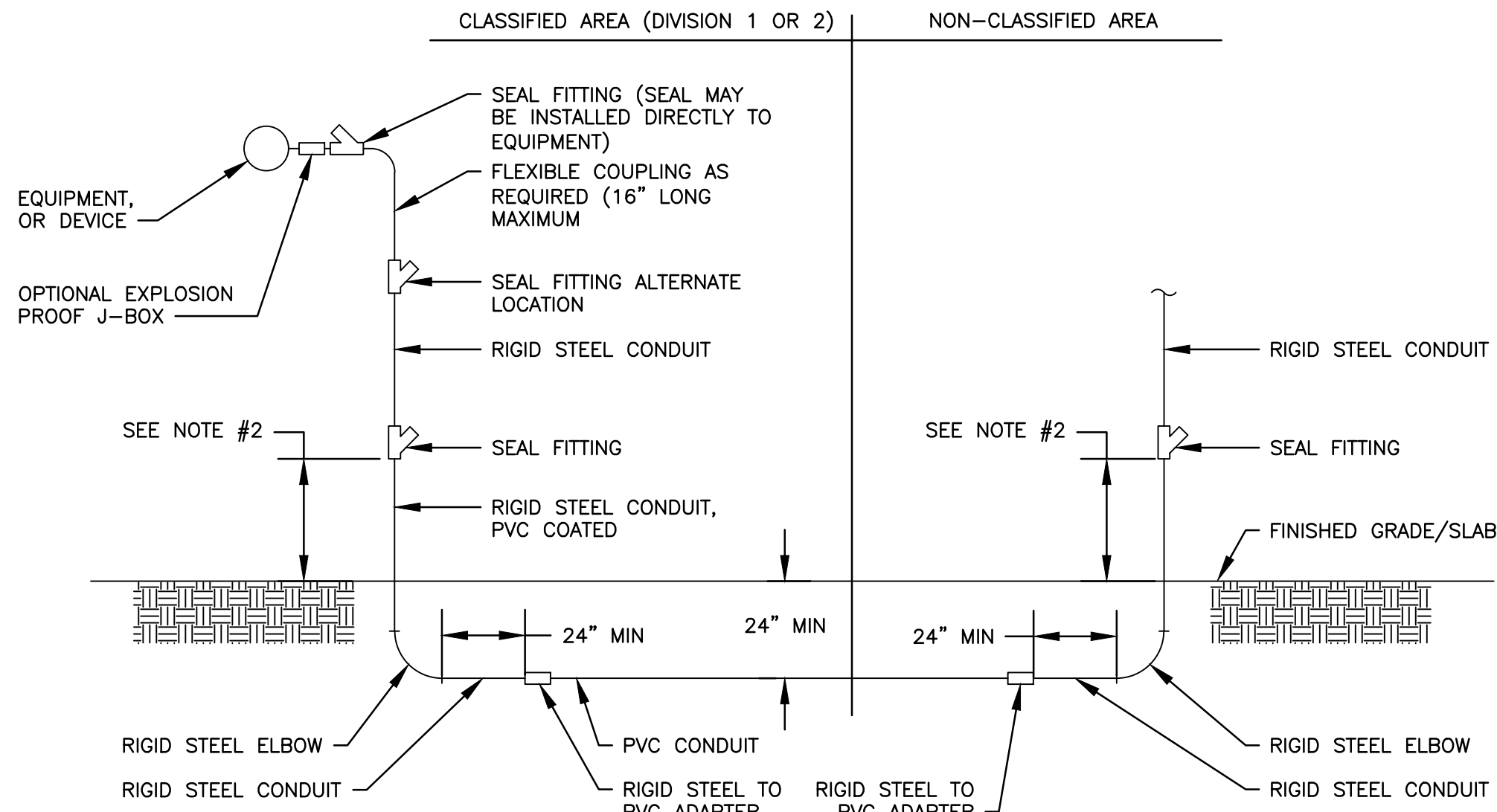


3 TYPICAL DIRECT BURIED ELECTRICAL CONDUIT DETAIL
FE4.00 SCALE: NONE

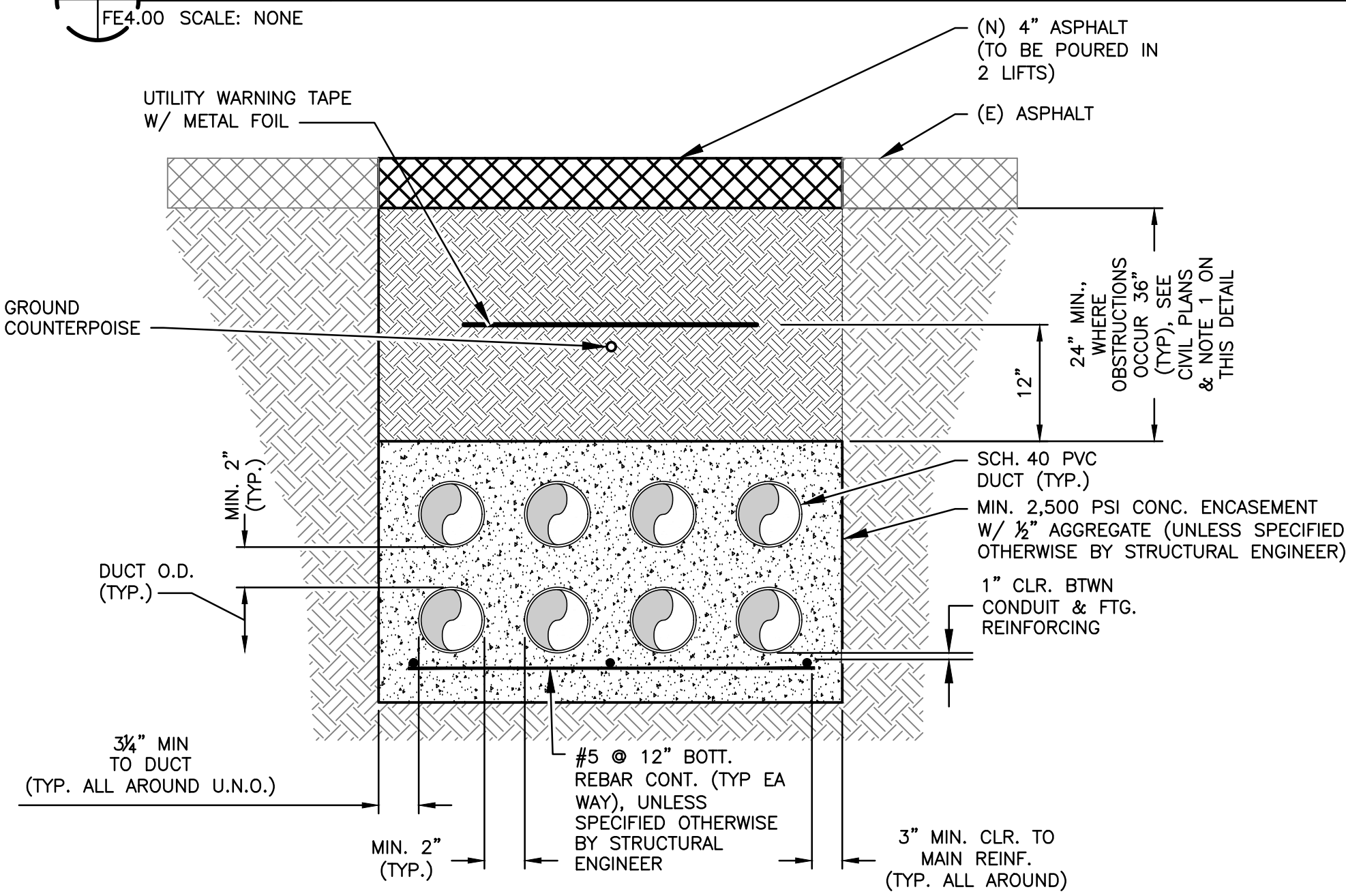


4 ELEC. ROOM - EXISTING VEEDER ROOT
FE4.00 SCALE: NONE

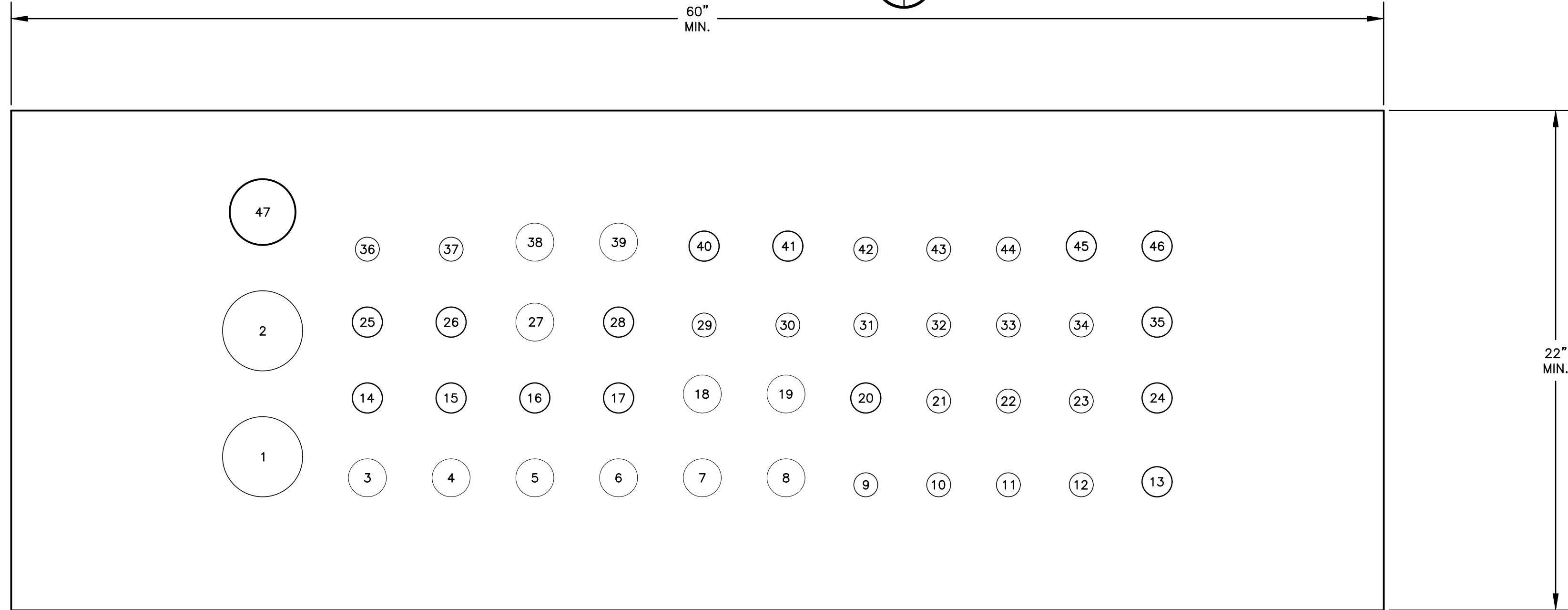
4 ELEC. ROOM - EXISTING VEEDER ROOT
FE4.00 SCALE: NONE



5 TYPICAL EQUIPMENT OR DEVICES CONNECTION DETAIL
FE4.00 SCALE: NONE



6 TYPICAL CONCRETE ENCASED ELECTRICAL DUCTBANK SECTION
FE4.00 SCALE: NONE



GENERAL NOTES:
1. MINIMUM SIZE OF DUCTBANK IS BASED ON CRITERIA FROM DETAIL 6 ON THIS SHEET AND ALLOWANCES FOR CONDUIT SPACERS. FINAL SIZE OF DUCTBANK SHALL BE CONFIRMED WITH PROJECT ENGINEERS PRIOR TO CONSTRUCTION.

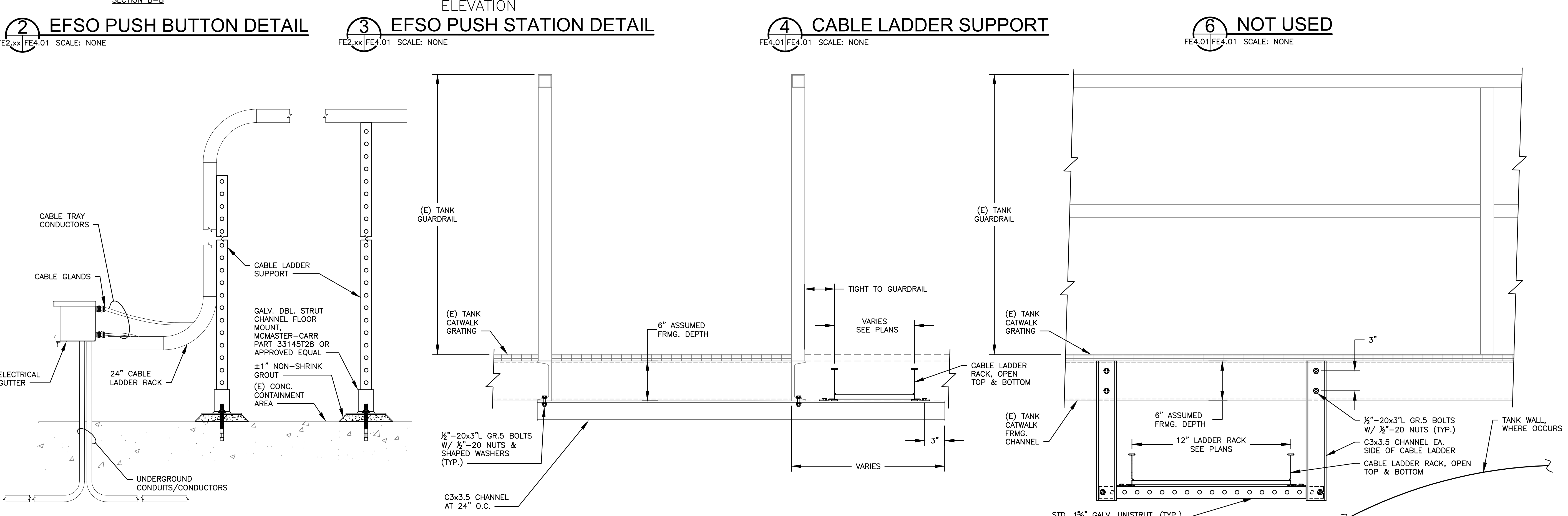
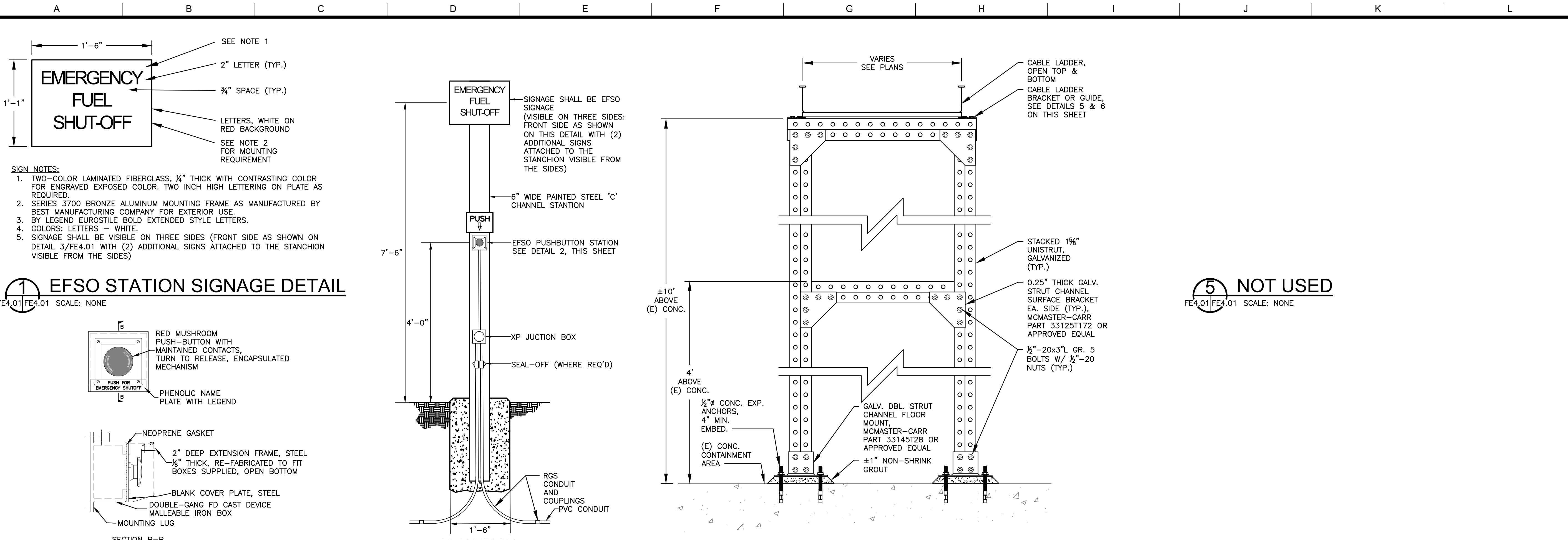
KEYNOTES (DETAIL NO. 7):

1. 3" CONDUIT CIRCUIT C101	11. 3/4" CONDUIT CIRCUIT C190	23. 3/4" CONDUIT CIRCUIT C196	35. 1" CONDUIT CIRCUIT C250
2. 3" CONDUIT CIRCUIT C110	12. 3/4" CONDUIT CIRCUIT C192	24. 1" CONDUIT CIRCUIT C200	36. 3/4" CONDUIT CIRCUIT C230
3. 1 1/2" CONDUIT CIRCUIT C121	13. 1" CONDUIT CIRCUIT C184	25. 1" CONDUIT CIRCUIT C133	37. 3/4" CONDUIT CIRCUIT C231
4. 1 1/2" CONDUIT CIRCUIT C124	14. 1" CONDUIT CIRCUIT C122	26. 1" CONDUIT CIRCUIT C135	38. 1 1/2" CONDUIT CIRCUIT C262
5. 1 1/2" CONDUIT CIRCUIT C127	15. 1" CONDUIT CIRCUIT C125	27. 1 1/2" CONDUIT CIRCUIT C137	39. 1 1/2" CONDUIT CIRCUIT C263
6. 1 1/2" CONDUIT CIRCUIT C130	16. 1" CONDUIT CIRCUIT C128	28. 1" CONDUIT CIRCUIT C139	40. 1" CONDUIT CIRCUIT C264
7. 1 1/2" CONDUIT CIRCUIT C140	17. 1" CONDUIT CIRCUIT C131	29. 3/4" CONDUIT CIRCUIT C180	41. 1" CONDUIT CIRCUIT C265
8. 1 1/2" CONDUIT CIRCUIT C150	18. 1 1/2" CONDUIT CIRCUIT C160	30. 3/4" CONDUIT CIRCUIT C181	42. 3/4" CONDUIT CIRCUIT C240
9. 3/4" CONDUIT CIRCUIT C182	19. 1 1/2" CONDUIT CIRCUIT C170	31. 3/4" CONDUIT CIRCUIT C220	43. 3/4" CONDUIT CIRCUIT C241
10. 3/4" CONDUIT CIRCUIT C183	20. 1" CONDUIT CIRCUIT C109	32. 3/4" CONDUIT CIRCUIT C212	44. 3/4" CONDUIT CIRCUIT C222
	21. 3/4" CONDUIT CIRCUIT C210	33. 3/4" CONDUIT CIRCUIT C188	45. 1" CONDUIT CIRCUIT C260
	22. 3/4" CONDUIT CIRCUIT C194	34. 3/4" CONDUIT CIRCUIT C189	46. 1" CONDUIT CIRCUIT C261
			47. 2" CONDUIT CIRCUIT C266

7 DUCTBANK CONDUIT LAYOUT DETAIL (LOOKING EAST)
FE4.00 SCALE: NONE

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) ELECTRICAL DETAILS	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL:	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE400
FE4.00	

ISSUED FOR PERMIT

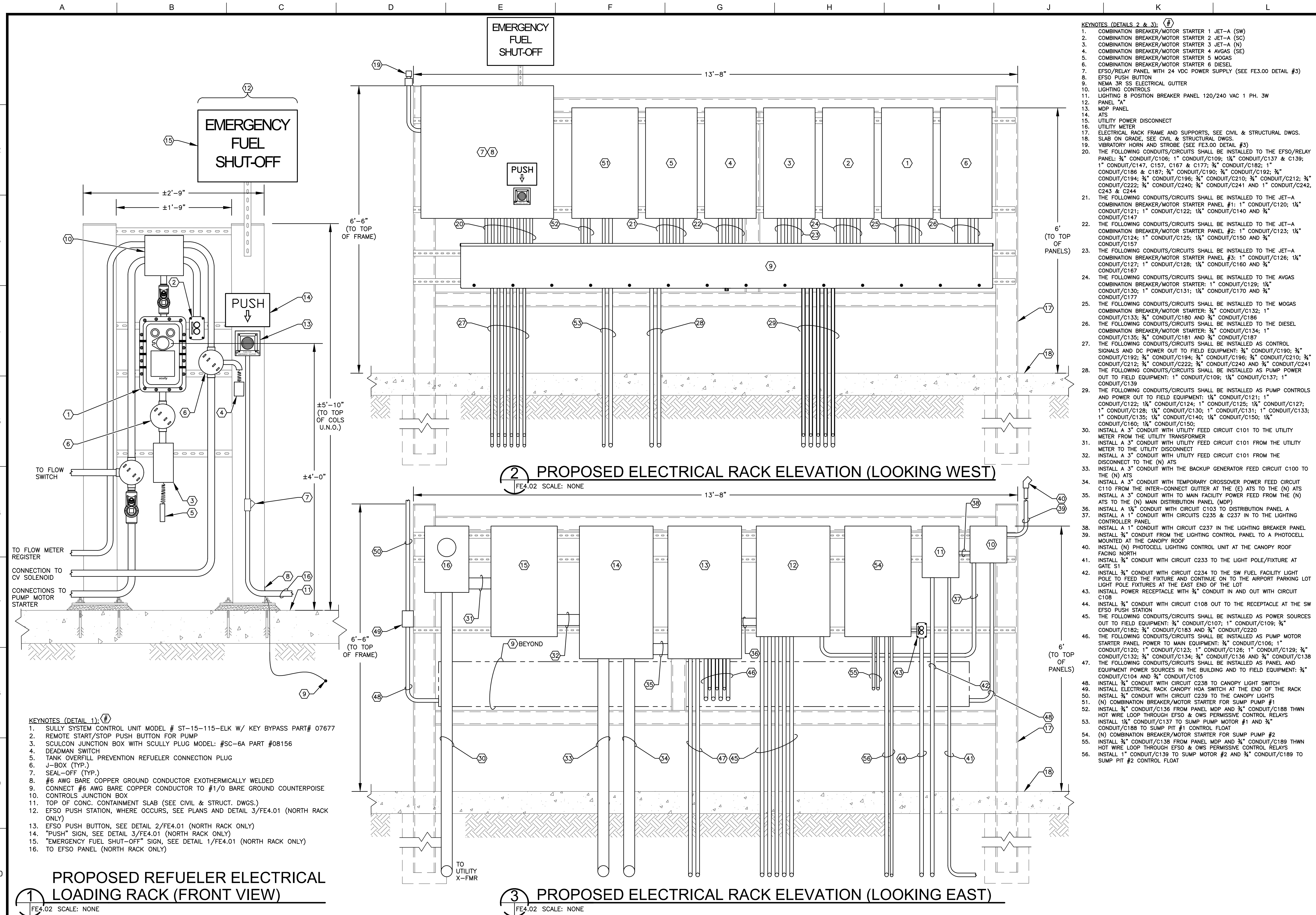


5 NOT USED
FE4.01/FE4.01 SCALE: NONE

6 NOT USED
FE4.01/FE4.01 SCALE: NONE

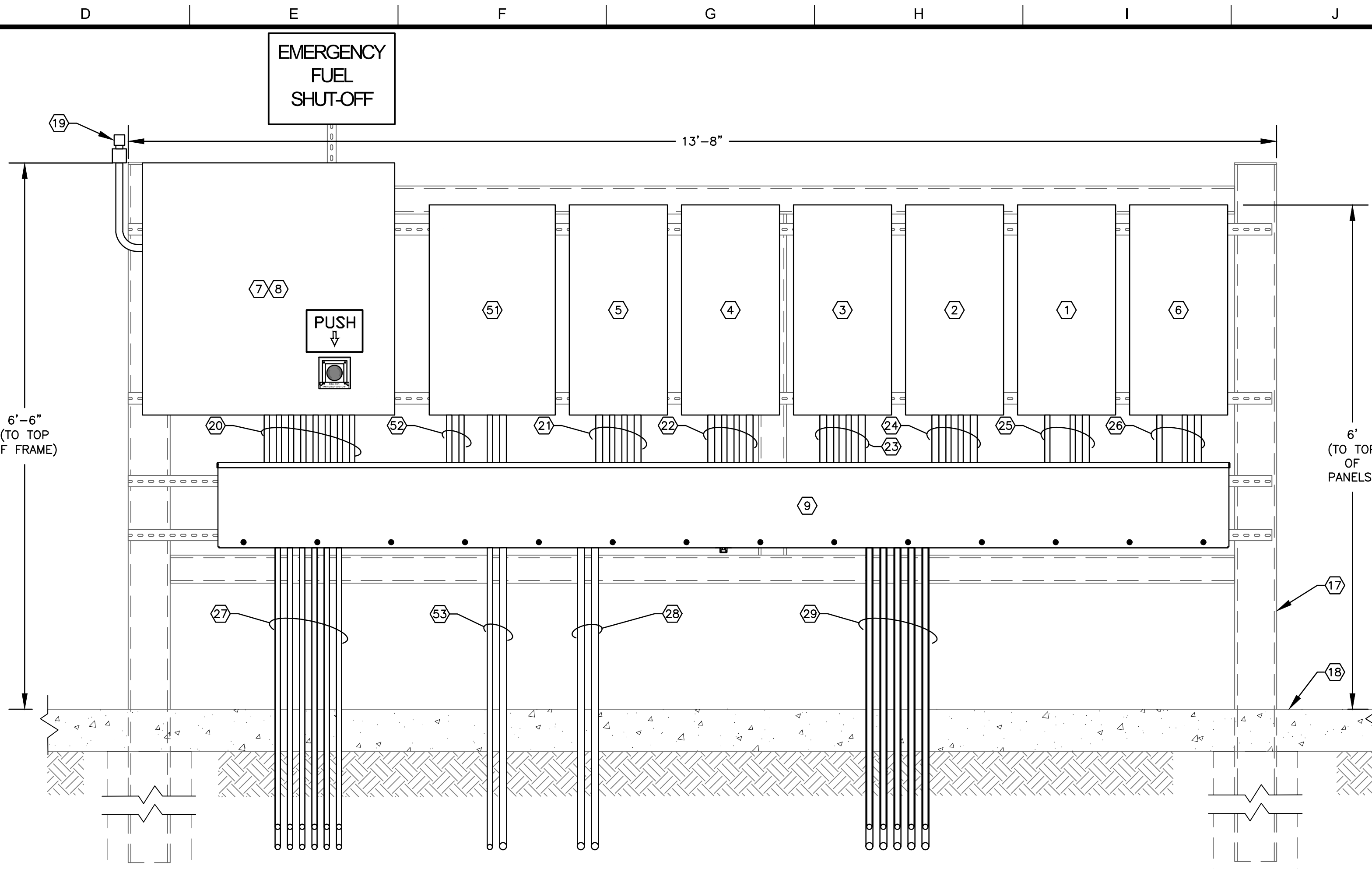
DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
EFSO DETAILS & DIAGRAMS	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
DANIEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80489 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE401
SHEET NUMBER:	
FE4.01	

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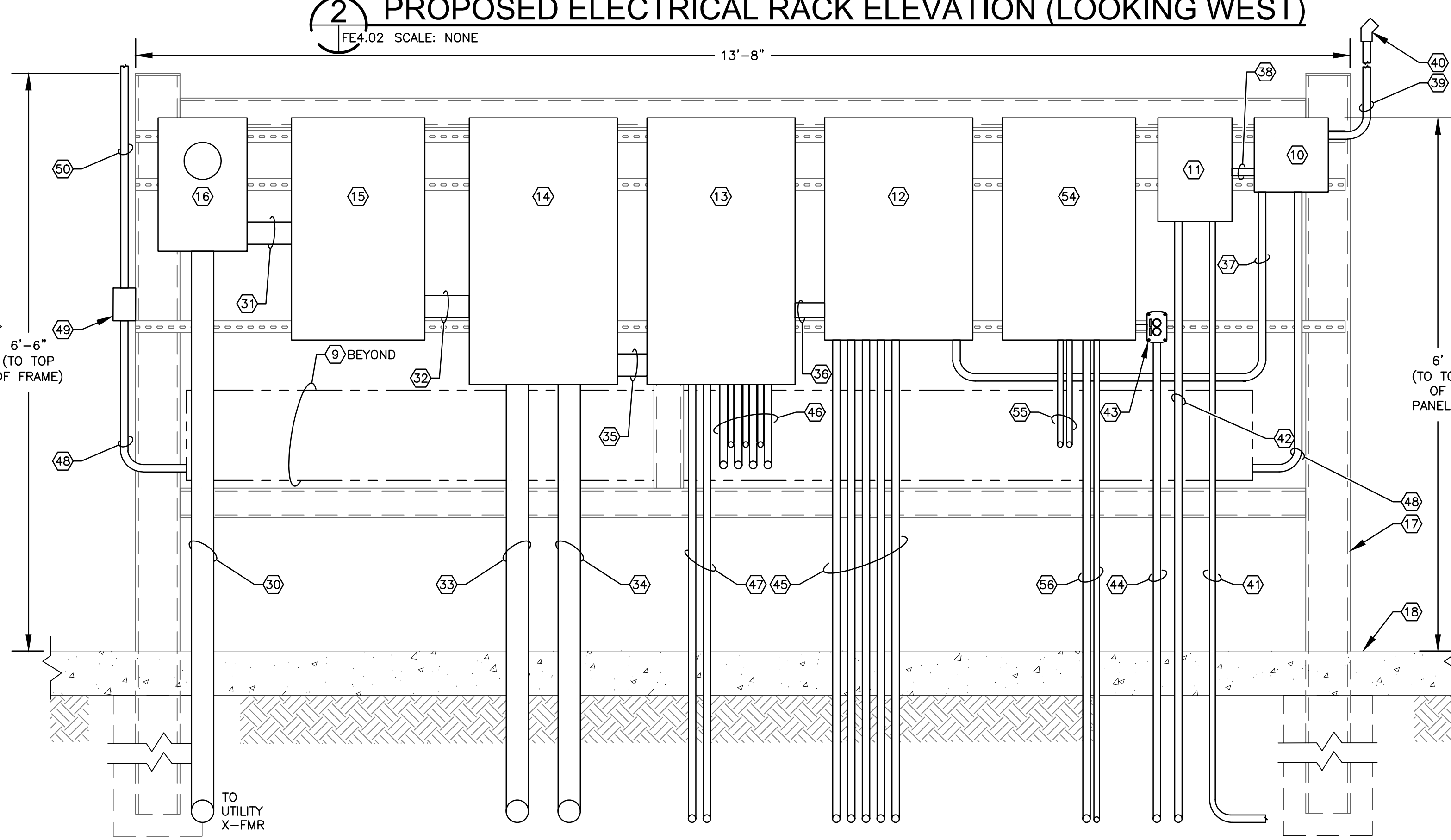


- KEYNOTES (DETAIL 1): (#)**
- SULLY SYSTEM CONTROL UNIT MODEL # ST-15-115-ELK W/ KEY BYPASS PART# 07677
 - REMOTE START/STOP PUSH BUTTON FOR PUMP
 - SCULCON JUNCTION BOX WITH SCULLY PLUG MODEL: #SC-6A PART #08156
 - DEADMAN SWITCH
 - TANK OVERFILL PREVENTION REFUELER CONNECTION PLUG
 - J-BOX (TYP.)
 - SEAL-OFF (TYP.)
 - #6 AWG BARE COPPER GROUND CONDUCTOR EXOTHERMICALLY WELDED
 - CONNECT #6 AWG BARE COPPER CONDUCTOR TO #1/0 BARE GROUND COUNTERPOISE
 - CONTROLS JUNCTION BOX
 - TOP OF CONC. CONTAINMENT SLAB (SEE CIVIL & STRUCT. DWGS.)
 - EFSO PUSH STATION, WHERE OCCURS, SEE PLANS AND DETAIL 3/FE4.01 (NORTH RACK ONLY)
 - EFSO PUSH BUTTON, SEE DETAIL 2/FE4.01 (NORTH RACK ONLY)
 - "PUSH" SIGN, SEE DETAIL 3/FE4.01 (NORTH RACK ONLY)
 - "EMERGENCY FUEL SHUT-OFF" SIGN, SEE DETAIL 1/FE4.01 (NORTH RACK ONLY)
 - TO EFSO PANEL (NORTH RACK ONLY)

1 PROPOSED REFUELER ELECTRICAL LOADING RACK (FRONT VIEW)
FE4.02 SCALE: NONE



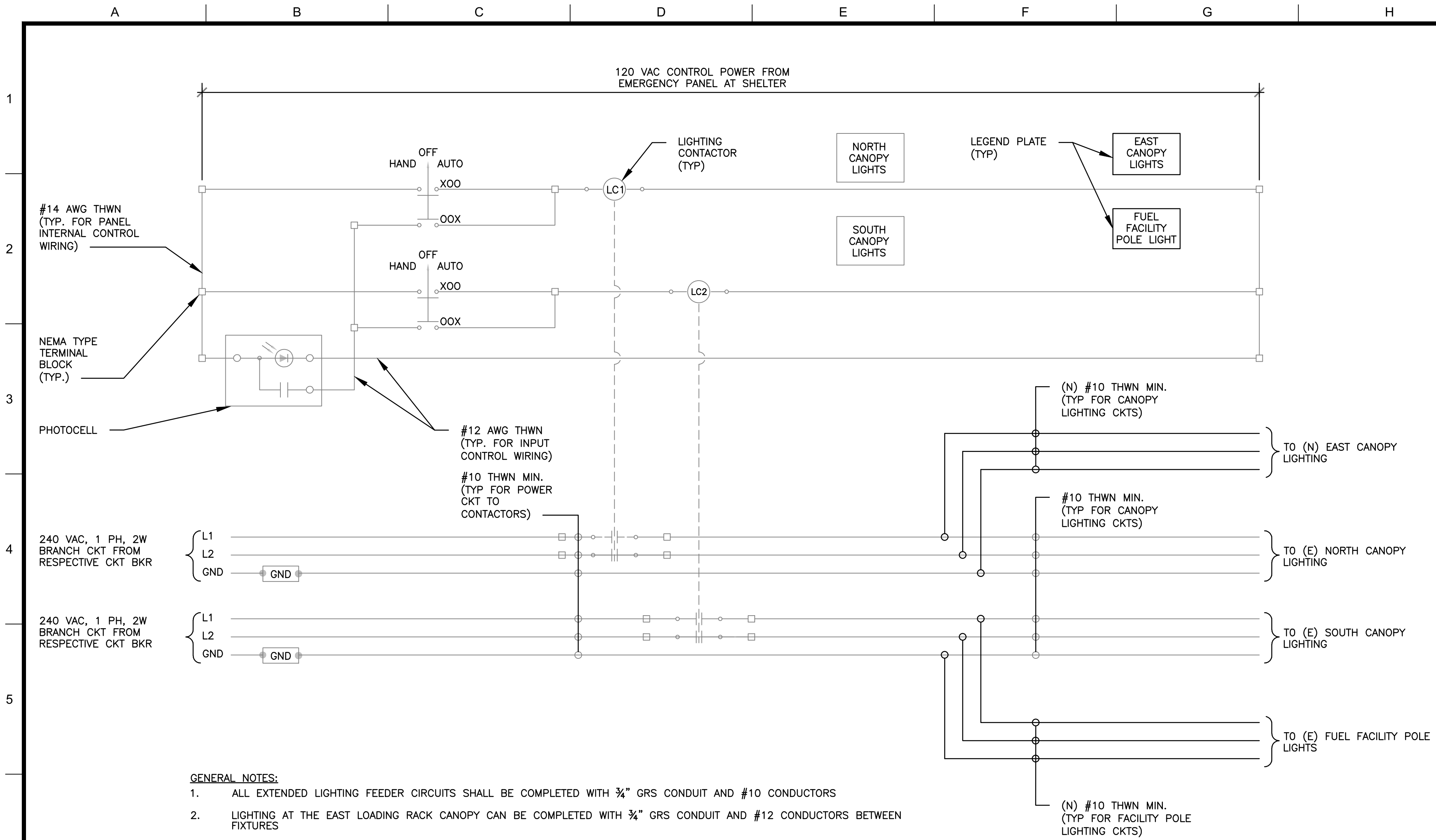
2 PROPOSED ELECTRICAL RACK ELEVATION (LOOKING WEST)
FE4.02 SCALE: NONE



3 PROPOSED ELECTRICAL RACK ELEVATION (LOOKING EAST)
FE4.02 SCALE: NONE

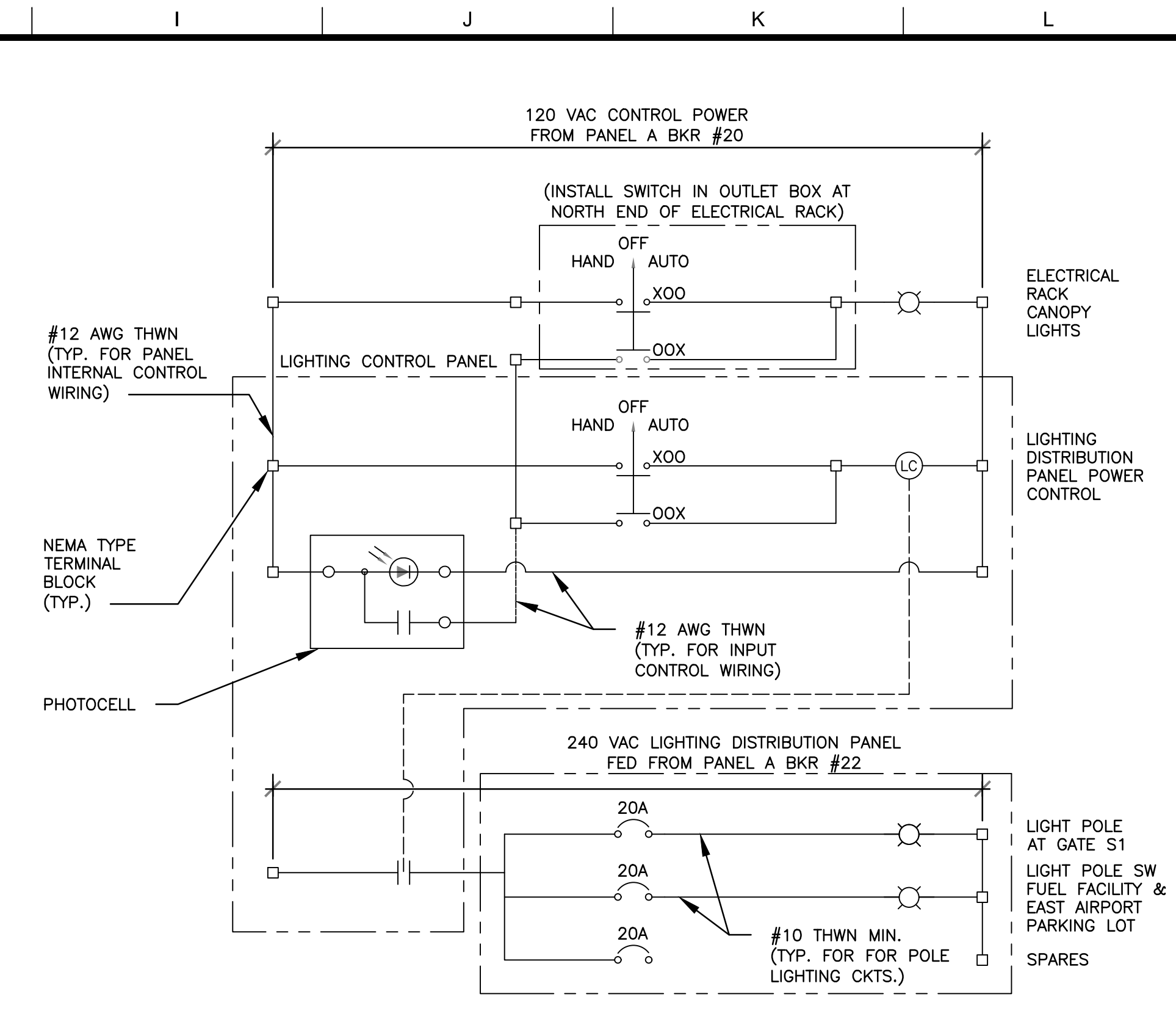
- KEYNOTES (DETAILS 2 & 3): (#)**
- COMBINATION BREAKER/MOTOR STARTER 1 JET-A (SW)
 - COMBINATION BREAKER/MOTOR STARTER 2 JET-A (SC)
 - COMBINATION BREAKER/MOTOR STARTER 3 JET-A (N)
 - COMBINATION BREAKER/MOTOR STARTER 4 AVGAS (SE)
 - COMBINATION BREAKER/MOTOR STARTER 5 MOGAS (SE)
 - COMBINATION BREAKER/MOTOR STARTER 6 DIESEL
 - EFSO/RELAY PANEL WITH 24 VDC POWER SUPPLY (SEE FE3.00 DETAIL #3)
 - EFSO PUSH BUTTON
 - NEMA 3R SS ELECTRICAL GUTTER
 - LIGHTING CONTROLS
 - LIGHTING 8 POSITION BREAKER PANEL 120/240 VAC 1 PH. 3W
 - PANEL "A"
 - MDP PANEL
 - ATS
 - UTILITY POWER DISCONNECT
 - UTILITY METER
 - ELECTRICAL RACK FRAME AND SUPPORTS, SEE CIVIL & STRUCTURAL DWGS.
 - SLAB ON GRADE, SEE CIVIL & STRUCTURAL DWGS.
 - VIBRATORY HORN AND STROBE (SEE FE3.00 DETAIL #3)
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE EFSO/RELAY PANEL: 3/4" CONDUIT/C106; 1" CONDUIT/C109; 1/2" CONDUIT/C137 & C139; 1" CONDUIT/C147, C157, C167 & C177; 3/4" CONDUIT/C182; 1" CONDUIT/C186 & C187; 3/4" CONDUIT/C190; 3/4" CONDUIT/C192; 3/4" CONDUIT/C194; 3/4" CONDUIT/C196; 3/4" CONDUIT/C210; 3/4" CONDUIT/C212; 3/4" CONDUIT/C222; 3/4" CONDUIT/C240; 3/4" CONDUIT/C241 AND 1" CONDUIT/C242, C243 & C244
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE JET-A COMBINATION BREAKER/MOTOR STARTER PANEL #1: 1" CONDUIT/C120; 1/2" CONDUIT/C121; 1" CONDUIT/C122; 1/2" CONDUIT/C140 AND 3/4" CONDUIT/C147
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE JET-A COMBINATION BREAKER/MOTOR STARTER PANEL #2: 1" CONDUIT/C123; 1/2" CONDUIT/C124; 1" CONDUIT/C125; 1/2" CONDUIT/C150 AND 3/4" CONDUIT/C157
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE JET-A COMBINATION BREAKER/MOTOR STARTER PANEL #3: 1" CONDUIT/C126; 1/2" CONDUIT/C127; 1" CONDUIT/C128; 1/2" CONDUIT/C160 AND 3/4" CONDUIT/C167
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE AVGAS COMBINATION BREAKER/MOTOR STARTER: 1" CONDUIT/C129; 1/2" CONDUIT/C130; 1" CONDUIT/C131; 1/2" CONDUIT/C170 AND 3/4" CONDUIT/C177
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE MOGAS COMBINATION BREAKER/MOTOR STARTER: 3/4" CONDUIT/C132; 1" CONDUIT/C133; 3/4" CONDUIT/C180 AND 3/4" CONDUIT/C186
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED TO THE DIESEL COMBINATION BREAKER/MOTOR STARTER: 3/4" CONDUIT/C134; 1" CONDUIT/C135; 3/4" CONDUIT/C181 AND 3/4" CONDUIT/C187
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS CONTROL SIGNALS AND DC POWER OUT TO FIELD EQUIPMENT: 3/4" CONDUIT/C190; 3/4" CONDUIT/C192; 3/4" CONDUIT/C194; 3/4" CONDUIT/C196; 3/4" CONDUIT/C210; 3/4" CONDUIT/C212; 3/4" CONDUIT/C222; 3/4" CONDUIT/C240 AND 3/4" CONDUIT/C241
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS PUMP POWER OUT TO FIELD EQUIPMENT: 1" CONDUIT/C109; 1/2" CONDUIT/C137; 1" CONDUIT/C139
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS PUMP CONTROLS AND POWER OUT TO FIELD EQUIPMENT: 1/2" CONDUIT/C121; 1" CONDUIT/C122; 1/2" CONDUIT/C124; 1" CONDUIT/C125; 1/2" CONDUIT/C127; 1" CONDUIT/C128; 1/2" CONDUIT/C130; 1" CONDUIT/C131; 1" CONDUIT/C133; 1" CONDUIT/C135; 1/2" CONDUIT/C140; 1/2" CONDUIT/C150; 1/2" CONDUIT/C160; 1/2" CONDUIT/C150
 - INSTALL A 3" CONDUIT WITH UTILITY FEED CIRCUIT C101 TO THE UTILITY METER FROM THE UTILITY TRANSFORMER
 - INSTALL A 3" CONDUIT WITH UTILITY FEED CIRCUIT C101 FROM THE UTILITY METER TO THE UTILITY DISCONNECT
 - INSTALL A 3" CONDUIT WITH UTILITY FEED CIRCUIT C101 FROM THE DISCONNECT TO THE (N) ATS
 - INSTALL A 3" CONDUIT WITH THE BACKUP GENERATOR FEED CIRCUIT C100 TO THE (N) ATS
 - INSTALL A 3" CONDUIT WITH TEMPORARY CROSSOVER POWER FEED CIRCUIT C110 FROM THE INTER-CONNECT GUTTER AT THE (E) ATS TO THE (N) ATS
 - INSTALL A 3" CONDUIT WITH TO MAIN FACILITY POWER FEED FROM THE (N) ATS TO THE (N) MAIN DISTRIBUTION PANEL (MDP)
 - INSTALL A 1/2" CONDUIT WITH CIRCUIT C103 TO DISTRIBUTION PANEL A
 - INSTALL A 1" CONDUIT WITH CIRCUITS C235 & C237 IN TO THE LIGHTING CONTROLLER PANEL
 - INSTALL A 1" CONDUIT WITH CIRCUIT C237 IN THE LIGHTING BREAKER PANEL
 - INSTALL 3/4" CONDUIT FROM THE LIGHTING CONTROL PANEL TO A PHOTOCELL MOUNTED AT THE CANOPY ROOF
 - INSTALL (N) PHOTOCELL LIGHTING CONTROL UNIT AT THE CANOPY ROOF FACING NORTH
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C233 TO THE LIGHT POLE/FIXTURE AT GATE 51
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C234 TO THE SW FUEL FACILITY LIGHT POLE TO FEED THE FIXTURE AND CONTINUE ON TO THE AIRPORT PARKING LOT LIGHT POLE FIXTURES AT THE EAST END OF THE LOT
 - INSTALL POWER RECEPTACLE WITH 3/4" CONDUIT IN AND OUT WITH CIRCUIT C108
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C108 OUT TO THE RECEPTACLE AT THE SW EFSO PUSH STATION
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS POWER SOURCES OUT TO FIELD EQUIPMENT: 3/4" CONDUIT/C107; 1" CONDUIT/C109; 3/4" CONDUIT/C128; 3/4" CONDUIT/C183 AND 3/4" CONDUIT/C220
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS PUMP MOTOR STARTER PANEL POWER TO MAIN EQUIPMENT: 3/4" CONDUIT/C106; 1" CONDUIT/C120; 1" CONDUIT/C123; 1" CONDUIT/C126; 1" CONDUIT/C129; 3/4" CONDUIT/C132; 3/4" CONDUIT/C134; 3/4" CONDUIT/C136 AND 3/4" CONDUIT/C138
 - THE FOLLOWING CONDUITS/CIRCUITS SHALL BE INSTALLED AS PANEL AND EQUIPMENT POWER SOURCES IN THE BUILDING AND TO FIELD EQUIPMENT: 3/4" CONDUIT/C104 AND 3/4" CONDUIT/C105
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C238 TO CANOPY LIGHT SWITCH
 - INSTALL ELECTRICAL RACK CANOPY HOA SWITCH AT THE END OF THE RACK
 - INSTALL 3/4" CONDUIT WITH CIRCUIT C239 TO THE CANOPY LIGHTS
 - (N) COMBINATION BREAKER/MOTOR STARTER FOR SUMP PUMP #1
 - INSTALL 3/4" CONDUIT/C136 FROM PANEL MDP AND 3/4" CONDUIT/C188 THWN HOT WIRE LOOP THROUGH EFSO & OWS PERMISSIVE CONTROL RELAYS
 - INSTALL 1/2" CONDUIT/C137 TO SUMP PUMP MOTOR #1 AND 3/4" CONDUIT/C188 TO SUMP PIT #1 CONTROL FLOAT
 - (N) COMBINATION BREAKER/MOTOR STARTER FOR SUMP PUMP #2
 - INSTALL 3/4" CONDUIT/C138 FROM PANEL MDP AND 3/4" CONDUIT/C189 THWN HOT WIRE LOOP THROUGH EFSO & OWS PERMISSIVE CONTROL RELAYS
 - INSTALL 1" CONDUIT/C139 TO SUMP MOTOR #2 AND 3/4" CONDUIT/C189 TO SUMP PIT #2 CONTROL FLOAT

DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
REFUELER LOADING ELECTRICAL RACK ELEVATION & PC INSTALLATION DETAIL	
PROJECT NAME	
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
DANIEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE402
SHEET NUMBER:	
FE4.02	



GENERAL NOTES:

1. ALL EXTENDED LIGHTING FEEDER CIRCUITS SHALL BE COMPLETED WITH 3/4" GRS CONDUIT AND #10 CONDUCTORS
2. LIGHTING AT THE EAST LOADING RACK CANOPY CAN BE COMPLETED WITH 3/4" GRS CONDUIT AND #12 CONDUCTORS BETWEEN FIXTURES

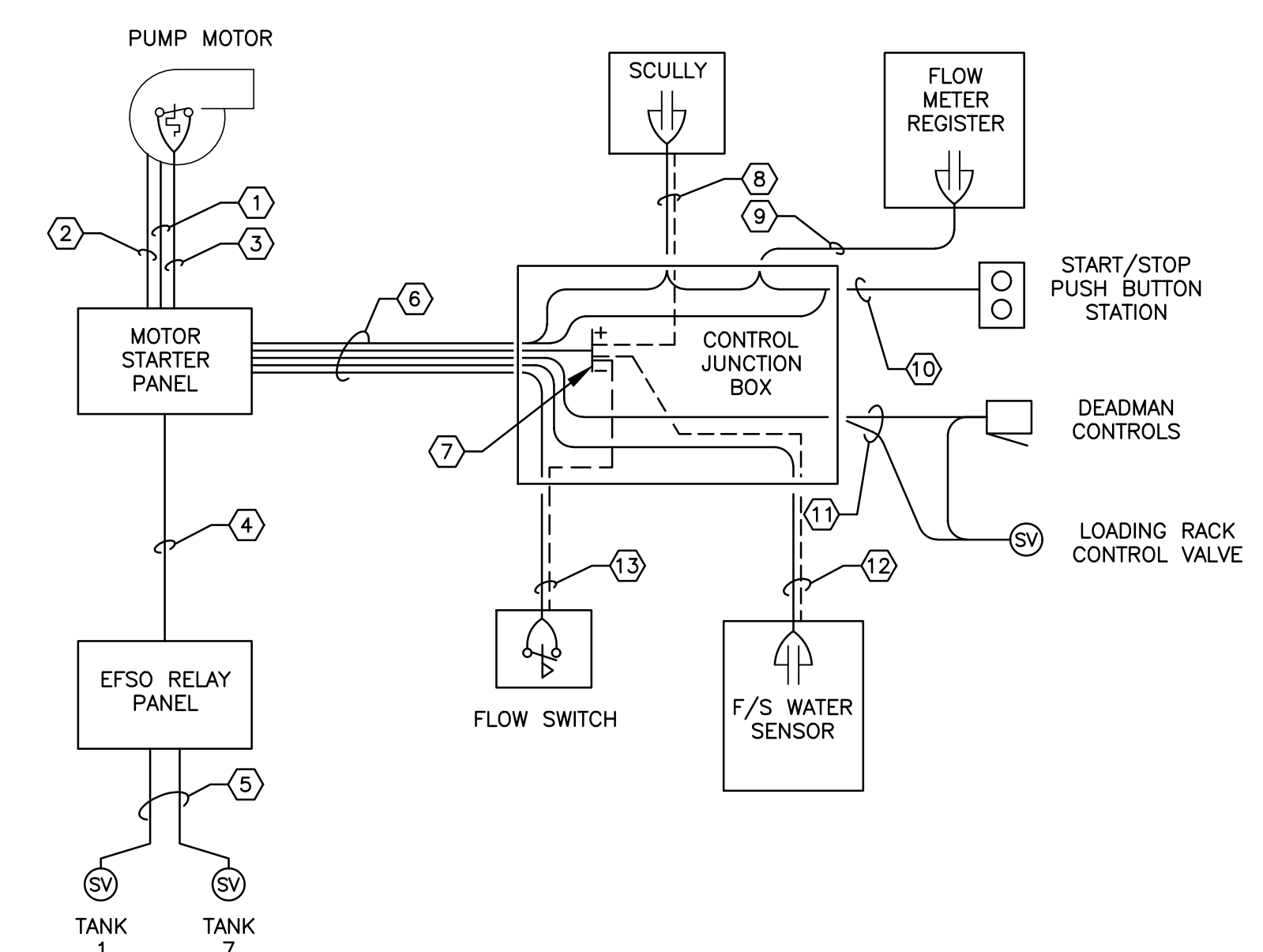


MISC. FACILITY & AIRPORT PARKING LOT LIGHTING CONTROLLER

3
FE4.03/FE4.03 SCALE: NONE

1 CONTROL PANEL FOR MAIN LIGHTING CONTACTOR SCHEMATIC

FE4.03/FE4.03 SCALE: NONE



GENERAL NOTES:

1. THE POWER FOR EACH PUMP AND VALVE CONTROL SYSTEM IS DERIVED FROM THE STEP-DOWN TRANSFORMER IN THE MOTOR STARTER PANEL. THE SIGNAL IS PASSED THROUGH AN EFSO PERMISSIVE CONTACT BEFORE RETURNING TO THE INDIVIDUAL MOTOR STARTER PANEL AND BEING ROUTED OUT TO THE FIELD DEVICES DIRECTLY OR THROUGH AUX CONTACTS OF THE MAIN MOTOR POWER CONTACTOR. A COMMON POWER, NEUTRAL AND GROUND ARE USED BETWEEN THE MOTOR STARTER AND THE CONTROL'S JUNCTION BOX WITH THE EQUIPMENT OFF THE JUNCTION BOX BEING JUMPERED OFF IN PARALLEL AT TERMINAL BLOCKS WITHIN AS NOTED IN THE KEYNOTES BELOW.
2. FOR MORE INFORMATION ON THE SYSTEM CIRCUITS SEE DETAILS #2, 3 & 4 ON FE3.00.

KEYNOTES: (#)

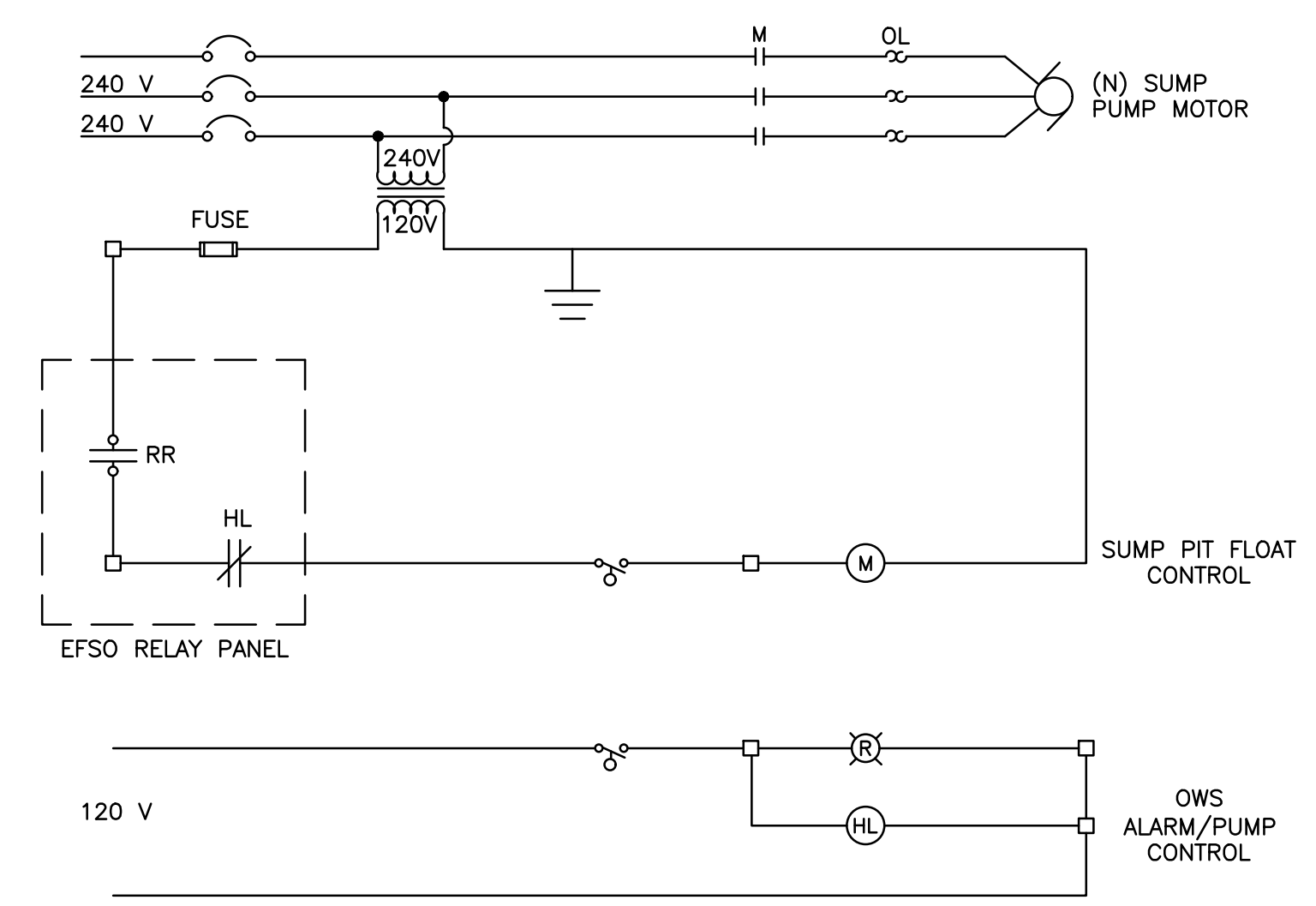
1. 240V MOTOR POWER CONDUCTORS CONNECTED FROM STARTER CONTACTOR TO MOTOR WINDINGS
2. 120V HEATER POWER CONDUCTOR CONNECTED FROM NORMALLY CLOSED AUXILIARY CONTACT AT STARTER CONTACTOR TO THE WINDING HEATING ELEMENTS IN MOTOR
3. MOTOR CONTROL PERMISSIVE TO AND THROUGH THE TEMPERATURE SENSOR IN THE PUMP MOTOR
4. PUMP ACTIVATION SIGNAL FROM NORMALLY OPEN AUXILIARY CONTACT AT STARTER CONTACTOR TO THE RELAY COIL IN THE EFSO /RELAY PANEL TO ACTIVATE THE ANTI-SIPHON VALVE CONTACTS
5. VALVE ACTIVATION SIGNALS FROM THE RELAY CONTACTS TO THE ANTI-SIPHON VALVE SOLENOIDS AT THE TANKS
6. POWER AND CONTROL SIGNALS BETWEEN THE MOTOR STARTER AND COMPONENTS CONNECTED THROUGH THE CONTROL'S JUNCTION BOX
7. TERMINAL BLOCKS FOR 120V AC POWER JUMPERS AND SIGNAL CROSS CONNECTIONS AS NEEDED TO THE EQUIPMENT INSTALLED OFF OF THE JUNCTION BOX
8. POWER TO THE SCULLY UNIT AND THE PUMP CONTROL SIGNAL WIRING THROUGH THE PERMISSIVE CONTACT
9. PUMP CONTROL SIGNAL WIRING TO THE FLOW METER REGISTER THROUGH THE PERMISSIVE CONTACT (NOTE: 24V DC POWER FEED SEPARATELY TO EACH METER REGISTER)
10. PUMP CONTROL SIGNAL WIRING TO AND THROUGH THE START / STOP PUSH BUTTON STATION CONTACTS
11. VALVE CONTROL SIGNAL WIRING TO AND THROUGH THE DEADMAN CONTROLS ON TO THE CONTROL VALVE SOLENOID (AT THE LOADING RACK)
12. POWER TO THE WATER DEFENSE SENSOR UNIT AND THE PUMP CONTROL SIGNAL WIRING THROUGH THE PERMISSIVE CONTACT
13. POWER TO THE FLOW SWITCH AND THE PUMP CONTROL SIGNAL WIRING THROUGH THE PERMISSIVE CONTACT

2 JET-A PUMP AND VALVE CONTROL ONE LINE LAYOUT DETAIL

FE4.03/FE4.03 SCALE: NONE

NOTES:

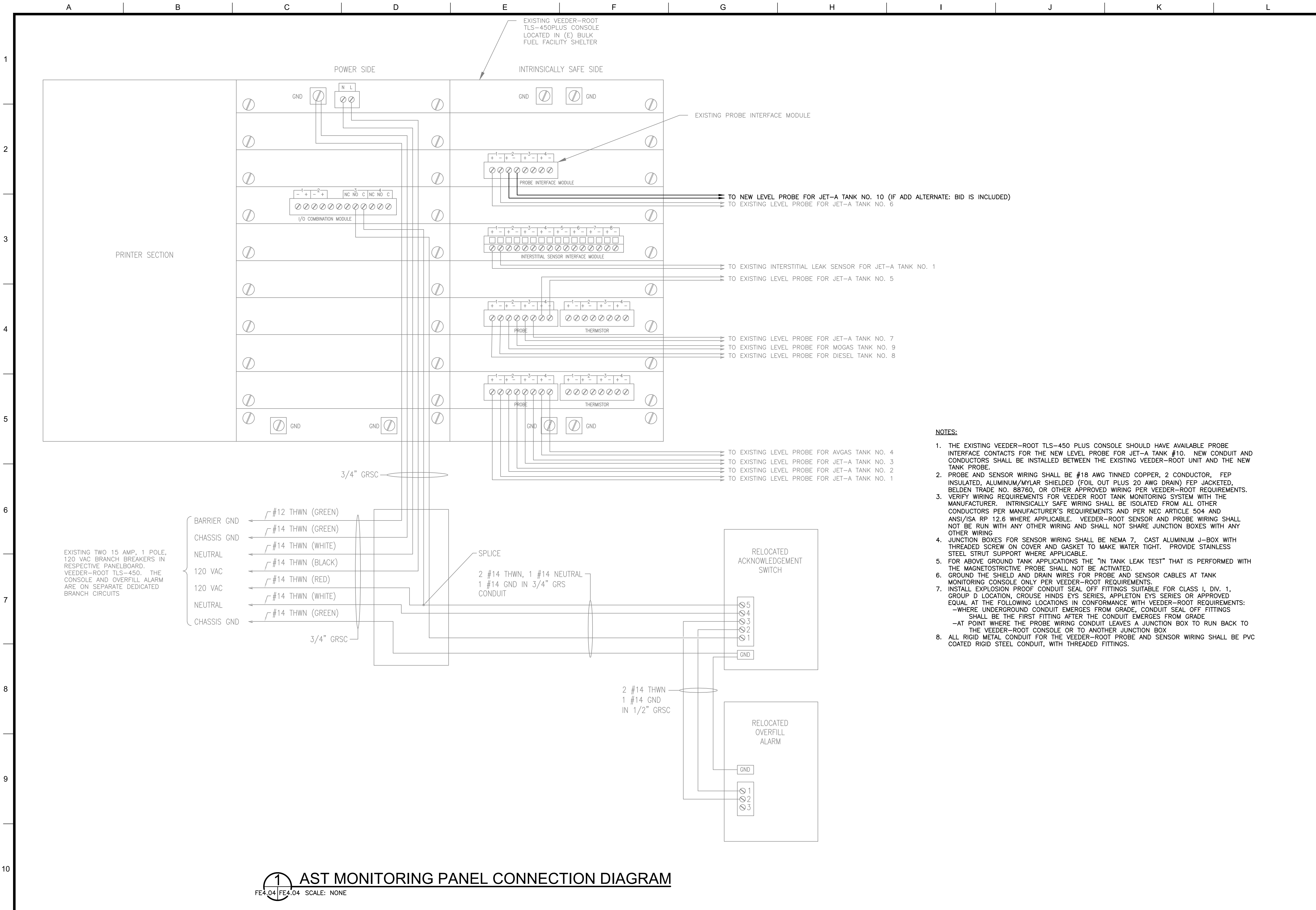
AVGAS IS SIMILAR BUT WITHOUT ANTI-SIPHON VALVES AND THE LOADING RACK VALVE IS A MOV.



4 SUMP PUMP CONTROL DIAGRAM

FE4.03/FE4.03 SCALE: NONE



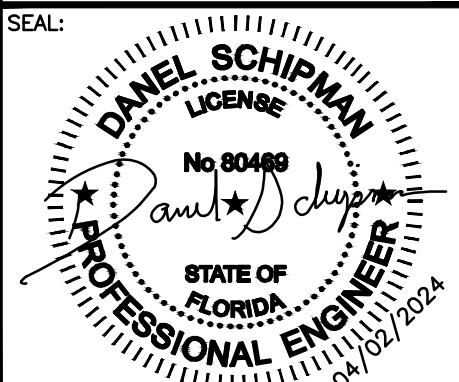
DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
CONTROL PANEL FOR LIGHTING CONTACTOR SCHEMATIC	
PROJECT NAME	NAPLES AIRPORT (APF)
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL:	
DANIEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.S.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE403
SHEET NUMBER:	
FE4.03	



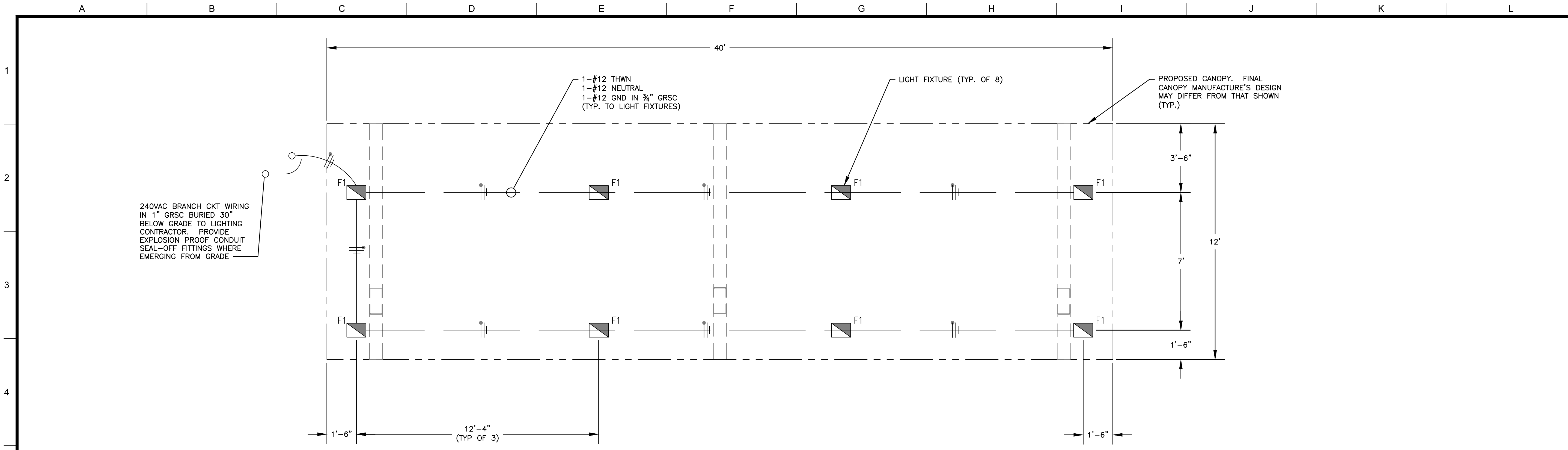
NOTES:

1. THE EXISTING VEEDER-ROOT TLS-450 PLUS CONSOLE SHOULD HAVE AVAILABLE PROBE INTERFACE CONTACTS FOR THE NEW LEVEL PROBE FOR JET-A TANK #10. NEW CONDUIT AND CONDUCTORS SHALL BE INSTALLED BETWEEN THE EXISTING VEEDER-ROOT UNIT AND THE NEW TANK PROBE.
2. PROBE AND SENSOR WIRING SHALL BE #18 AWG TINNED COPPER, 2 CONDUCTOR, FEP INSULATED, ALUMINUM/MYLAR SHIELDED (FOIL OUT PLUS 20 AWG DRAIN) FEP JACKETED, BELDEN TRADE NO. 88760, OR OTHER APPROVED WIRING PER VEEDER-ROOT REQUIREMENTS.
3. VERIFY WIRING REQUIREMENTS FOR VEEDER ROOT TANK MONITORING SYSTEM WITH THE MANUFACTURER. INTRINSICALLY SAFE WIRING SHALL BE ISOLATED FROM ALL OTHER CONDUCTORS PER MANUFACTURER'S REQUIREMENTS AND PER NEC ARTICLE 504 AND ANSI/ISA RP 12.6 WHERE APPLICABLE. VEEDER-ROOT SENSOR AND PROBE WIRING SHALL NOT BE RUN WITH ANY OTHER WIRING AND SHALL NOT SHARE JUNCTION BOXES WITH ANY OTHER WIRING.
4. JUNCTION BOXES FOR SENSOR WIRING SHALL BE NEMA 7, CAST ALUMINUM J-BOX WITH THREADED SCREW ON COVER AND GASKET TO MAKE WATER TIGHT. PROVIDE STAINLESS STEEL STRUT SUPPORT WHERE APPLICABLE.
5. FOR ABOVE GROUND TANK APPLICATIONS THE "IN TANK LEAK TEST" THAT IS PERFORMED WITH THE MAGNETOSTRICTIVE PROBE SHALL NOT BE ACTIVATED.
6. GROUND THE SHIELD AND DRAIN WIRES FOR PROBE AND SENSOR CABLES AT TANK MONITORING CONSOLE ONLY PER VEEDER-ROOT REQUIREMENTS.
7. INSTALL EXPLOSION PROOF CONDUIT SEAL OFF FITTINGS SUITABLE FOR CLASS I, DIV. 1, GROUP D LOCATION, CROUSE HINDS EYS SERIES, APPLETON EYS SERIES OR APPROVED EQUAL AT THE FOLLOWING LOCATIONS IN CONFORMANCE WITH VEEDER-ROOT REQUIREMENTS:
 - WHERE UNDERGROUND CONDUIT EMERGES FROM GRADE, CONDUIT SEAL OFF FITTINGS SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM GRADE
 - AT POINT WHERE THE PROBE WIRING CONDUIT LEAVES A JUNCTION BOX TO RUN BACK TO THE VEEDER-ROOT CONSOLE OR TO ANOTHER JUNCTION BOX
8. ALL RIGID METAL CONDUIT FOR THE VEEDER-ROOT PROBE AND SENSOR WIRING SHALL BE PVC COATED RIGID STEEL CONDUIT, WITH THREADED FITTINGS.

1 AST MONITORING PANEL CONNECTION DIAGRAM
FE4.04 FE4.04 SCALE: NONE

DATE	
REVISIONS	
 	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) AST MONITORING PANEL CONNECTION DIAGRAM	
PROJECT NAME	DRAWING NAME
PROJECT LOCATION	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL: 	
DANIEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE404
SHEET NUMBER:	
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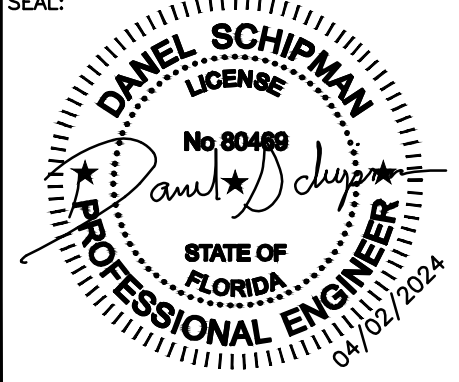


EAST CANOPY LIGHTING - PLAN VIEW

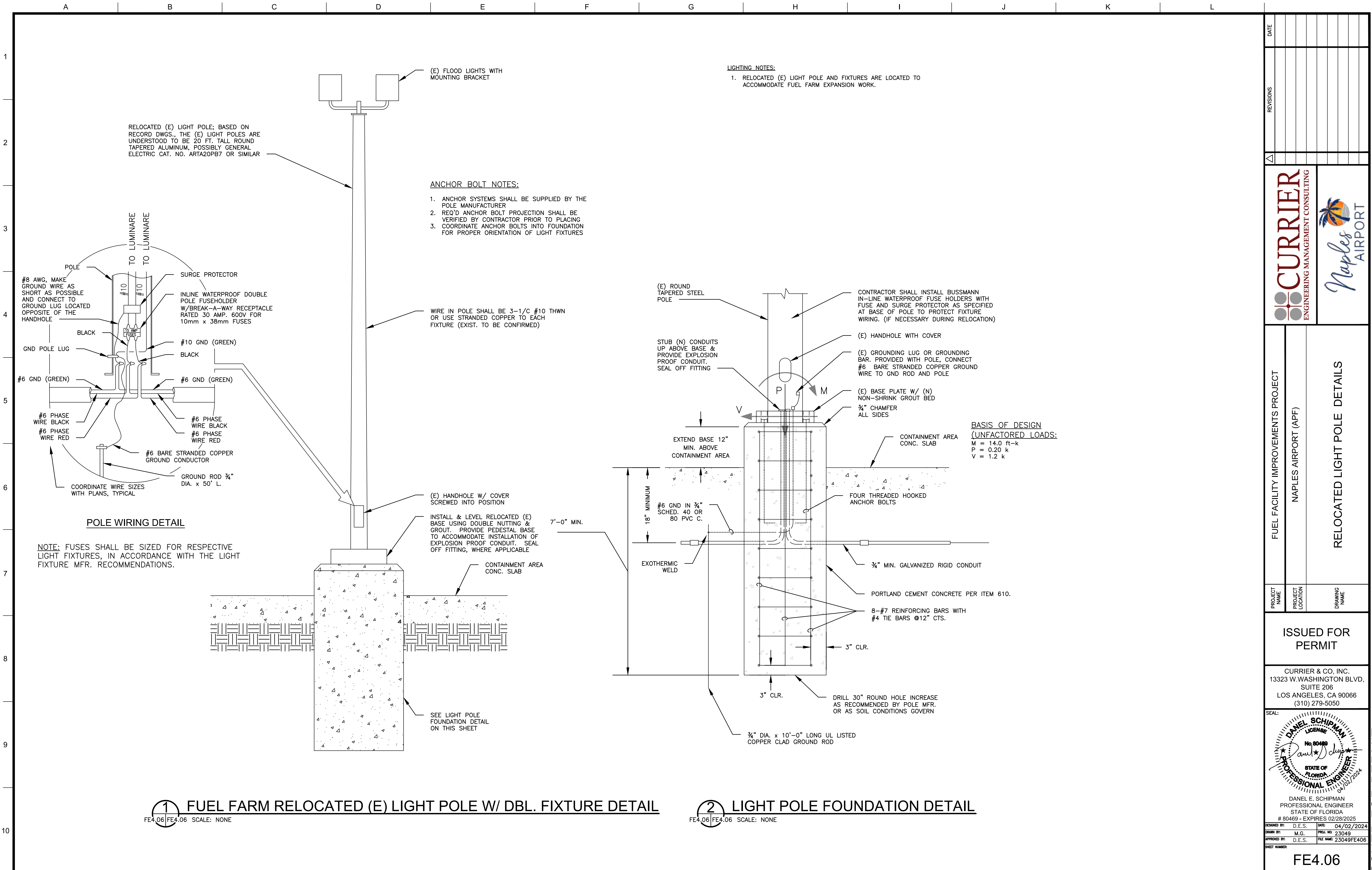


LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS/WATTS	VOLTS	MOUNTING	REMARKS
F1	HEAVY DUTY INDUSTRIAL CORROSION RESISTANT LED LIGHT FIXTURE SUITABLE FOR FUELING FACILITIES AND LISTED SUITABLE FOR CLASS I, DIVISION 2, GROUP D LOCATION. COLOR SHALL BE 4000 DEG. K. OPERATING TEMPERATURE RANGE SHALL BE -30 TO 45 DEG. C. SURFACE MOUNTED, 5600 LUMEN LED LAMPS AND L70 RATING OF 60,000 HOURS.	SHAT-R-SHIELD: MODEL INCOPLAS HYBRID CLASS 1 DIV 2 MODEL NUMBER: 045HY40STFRVLYHZ00SCH601	LED. APPROX. 45.7 INPUT WATTS	120-277V	SURFACE TO CANOPY	INSTALLATION OF LIGHT FIXTURES SHALL CONFORM TO NEC REQUIREMENTS FOR CLASS 1, DIVISION 2. CONDUITS PASSING THROUGH CLASS 1, DIVISION 1 AREAS SHALL CONFORM TO NEC REQUIREMENT FOR CLASS 1, DIVISION 1

1 EAST CANOPY LIGHTING DETAIL
FE4.05 FE4.05 SCALE: NONE

DATE	
REVISIONS	
 	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF) EAST CANOPY LIGHTING DETAIL	
PROJECT NAME	
PROJECT LOCATION	
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CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL: 	
DANEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
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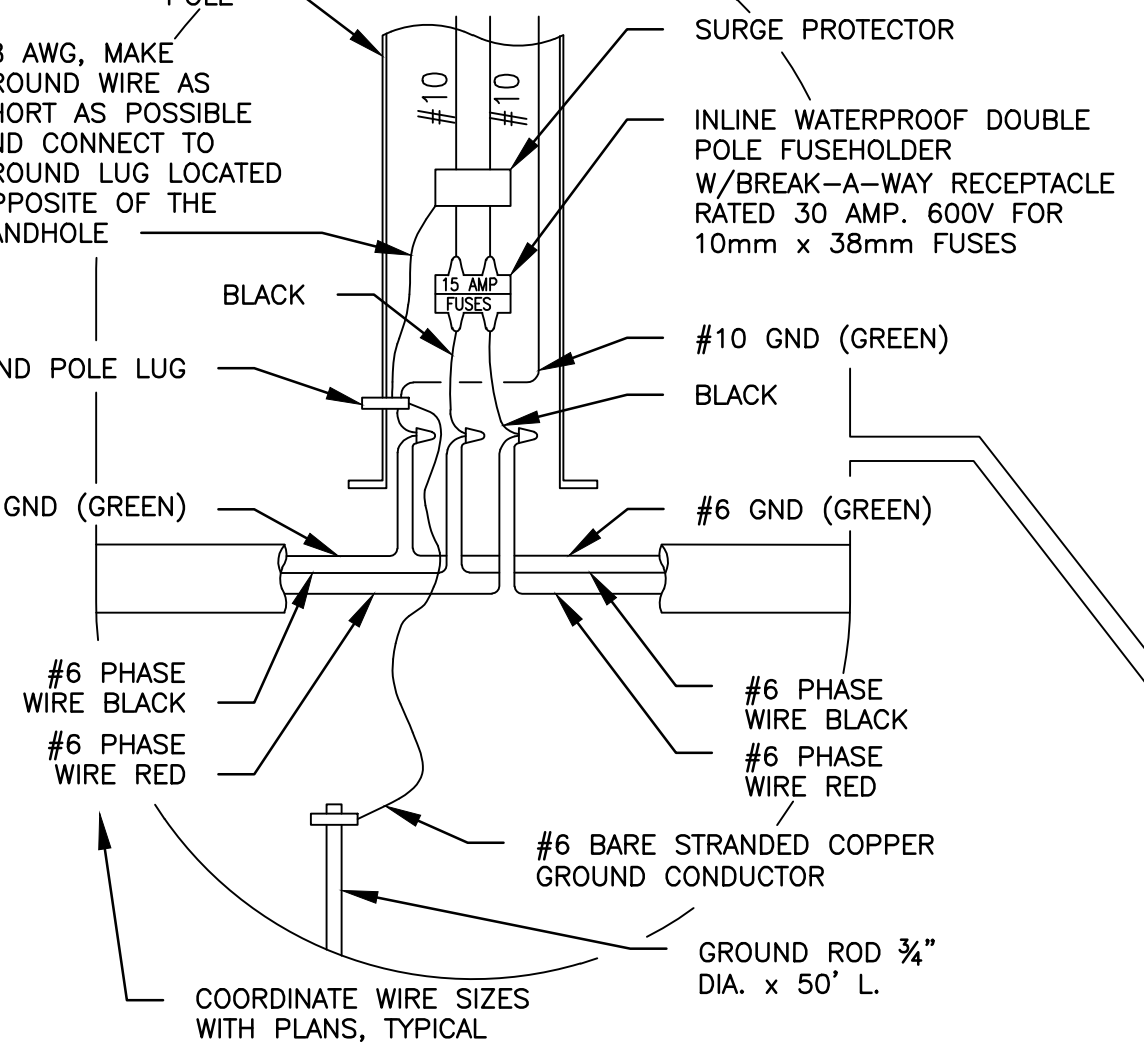


RELOCATED (E) LIGHT POLE; BASED ON RECORD DWGS., THE (E) LIGHT POLES ARE UNDERSTOOD TO BE 20 FT. TALL ROUND TAPERED ALUMINUM, POSSIBLY GENERAL ELECTRIC CAT. NO. ARTA20PB7 OR SIMILAR

- ANCHOR BOLT NOTES:**
1. ANCHOR SYSTEMS SHALL BE SUPPLIED BY THE POLE MANUFACTURER
 2. REQ'D ANCHOR BOLT PROJECTION SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACING
 3. COORDINATE ANCHOR BOLTS INTO FOUNDATION FOR PROPER ORIENTATION OF LIGHT FIXTURES

- LIGHTING NOTES:**
1. RELOCATED (E) LIGHT POLE AND FIXTURES ARE LOCATED TO ACCOMMODATE FUEL FARM EXPANSION WORK.

POLE WIRING DETAIL



NOTE: FUSES SHALL BE SIZED FOR RESPECTIVE LIGHT FIXTURES, IN ACCORDANCE WITH THE LIGHT FIXTURE MFR. RECOMMENDATIONS.

(E) HANDHOLE W/ COVER SCREWED INTO POSITION
 INSTALL & LEVEL RELOCATED (E) BASE USING DOUBLE NUTTING & GROUT. PROVIDE PEDESTAL BASE TO ACCOMMODATE INSTALLATION OF EXPLOSION PROOF CONDUIT. SEAL OFF FITTING, WHERE APPLICABLE

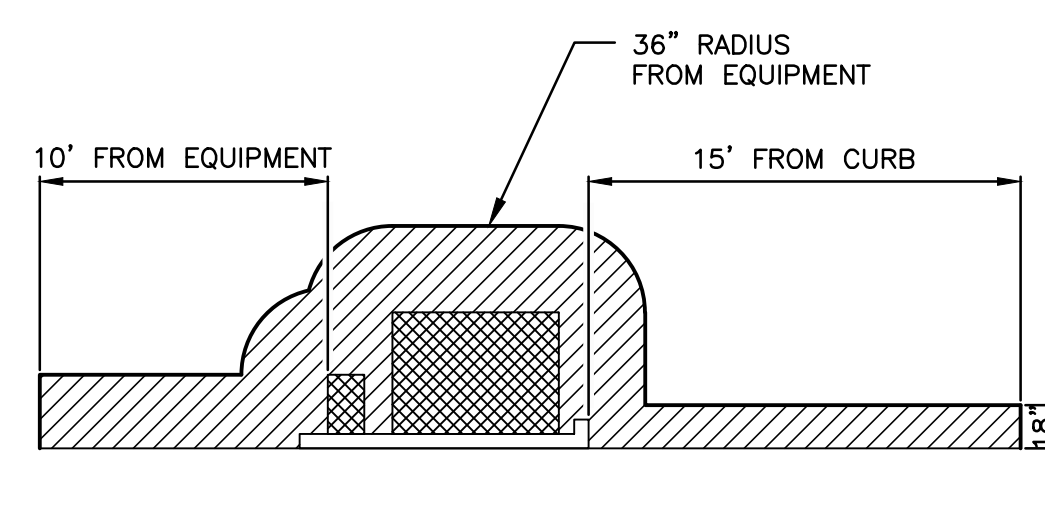
BASIS OF DESIGN (UNFACTORED LOADS):
 M = 14.0 ft-k
 P = 0.20 k
 V = 1.2 k

1 FUEL FARM RELOCATED (E) LIGHT POLE W/ DBL. FIXTURE DETAIL
 FE4.06/FE4.06 SCALE: NONE

2 LIGHT POLE FOUNDATION DETAIL
 FE4.06/FE4.06 SCALE: NONE

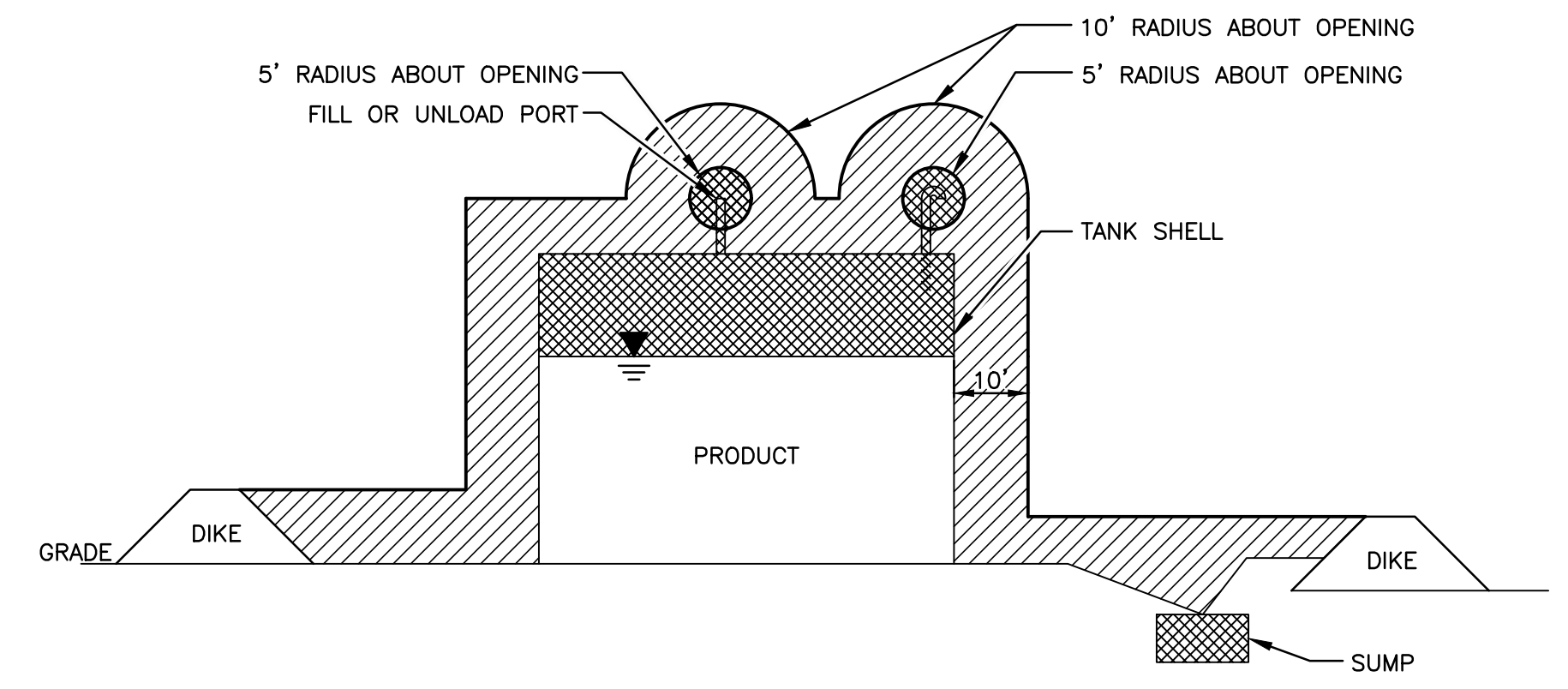
DATE	
REVISIONS	
FUEL FACILITY IMPROVEMENTS PROJECT NAPLES AIRPORT (APF)	
RELOCATED LIGHT POLE DETAILS	
PROJECT NAME	NAPLES AIRPORT (APF)
PROJECT LOCATION	
DRAWING NAME	
ISSUED FOR PERMIT	
CURRIER & CO., INC. 13323 W. WASHINGTON BLVD., SUITE 206 LOS ANGELES, CA 90066 (310) 279-5050	
SEAL:	
DANEL E. SCHIPMAN PROFESSIONAL ENGINEER STATE OF FLORIDA # 80488 - EXPIRES 02/28/2025	
DESIGNED BY: D.E.S.	DATE: 04/02/2024
DRAWN BY: M.G.	PROJ. NO: 23049
APPROVED BY: D.E.S.	FILE NAME: 23049FE406
FE4.06	

A B C D E F G H I J K L

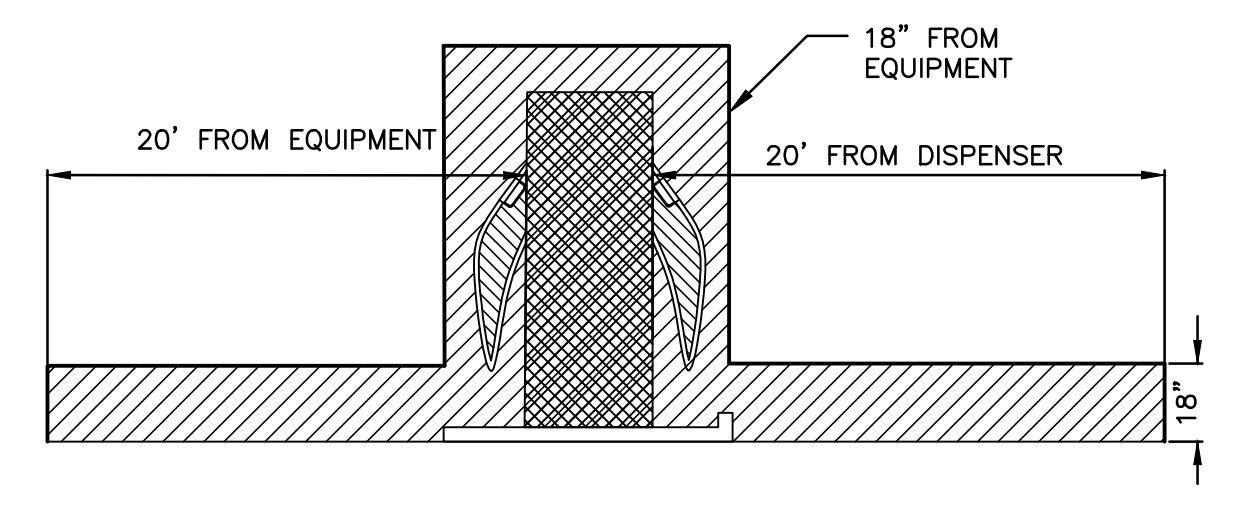


NOTES:
1. RULES FOR VENTS AND FILL PARTS SHOWN ELSEWHERE ON THIS SHEET APPLY.

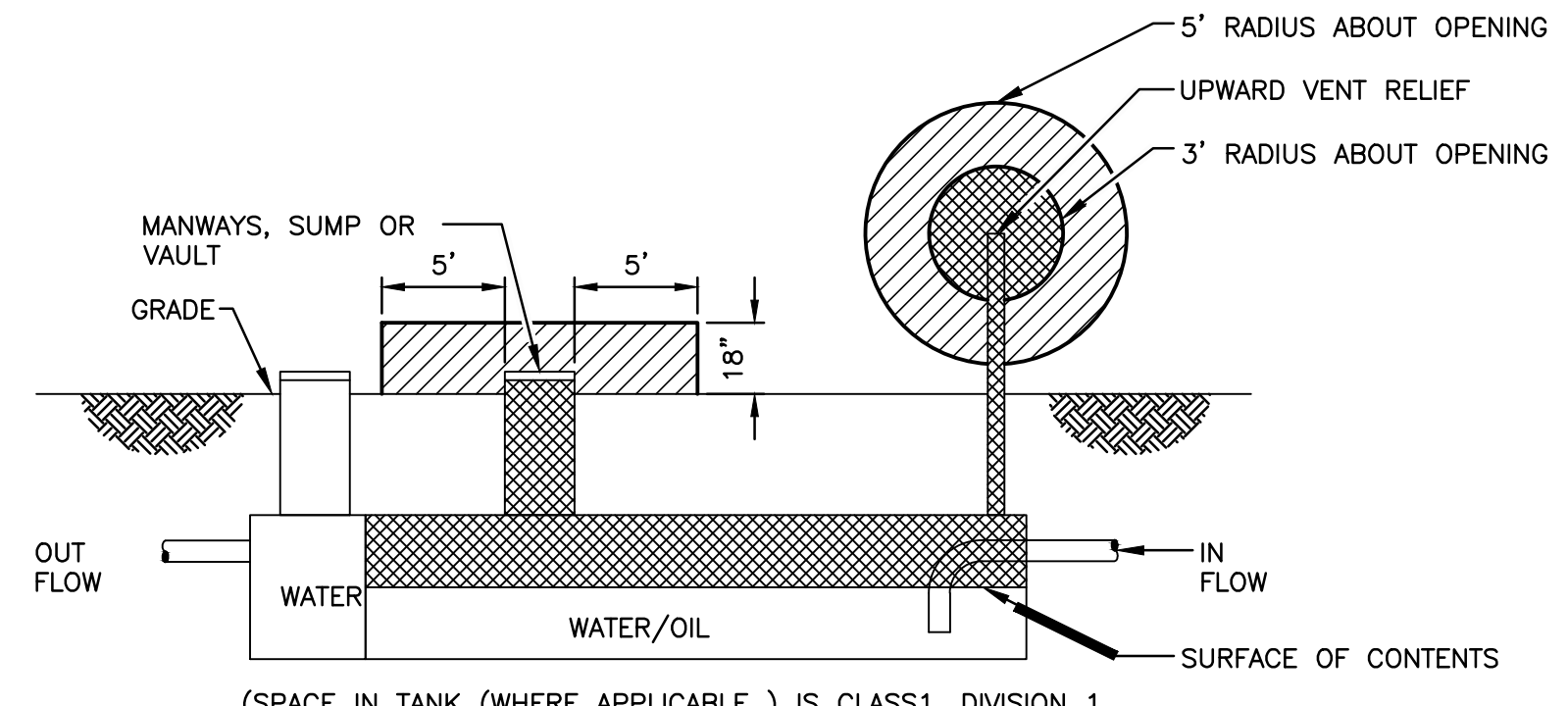
1 ELEVATION AT ISLAND OR PAD MOUNTED EQUIPMENT HAZARDOUS AREAS
FE5.00 SCALE: NONE



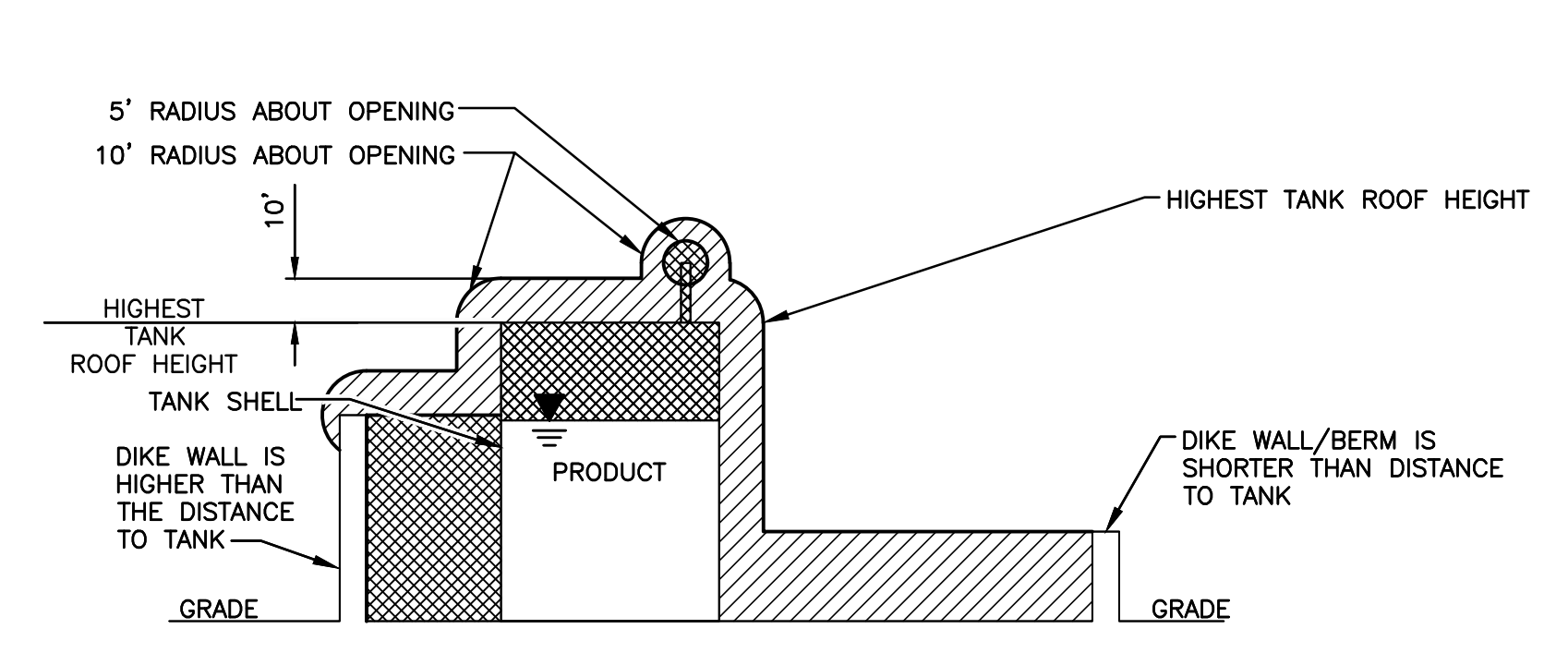
2 ABOVEGROUND TANK ELEVATION HAZARDOUS AREAS
FE5.00 SCALE: NONE



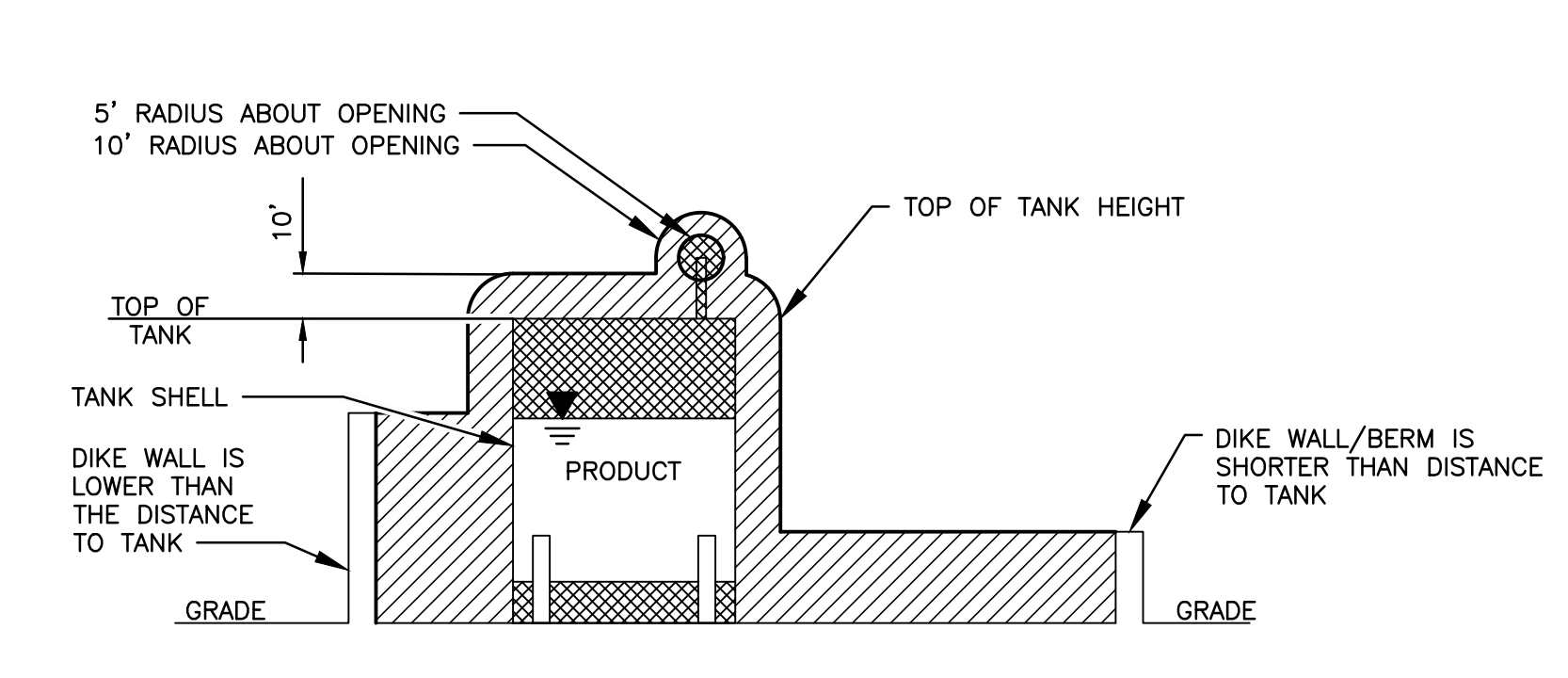
3 ELEVATION AT FUELING ISLAND FUEL DISPENSING EQUIPMENT HAZARDOUS AREAS
FE5.00 SCALE: NONE



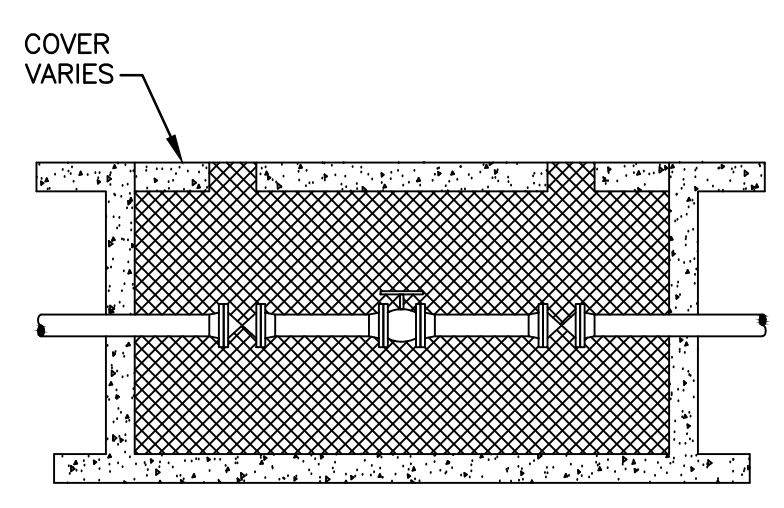
4 OIL/WATER SEPARATOR ELEVATION HAZARDOUS AREAS
FE5.00 SCALE: NONE
(SPACE IN TANK (WHERE APPLICABLE) IS CLASS 1, DIVISION 1 HAZARDOUS AREA)



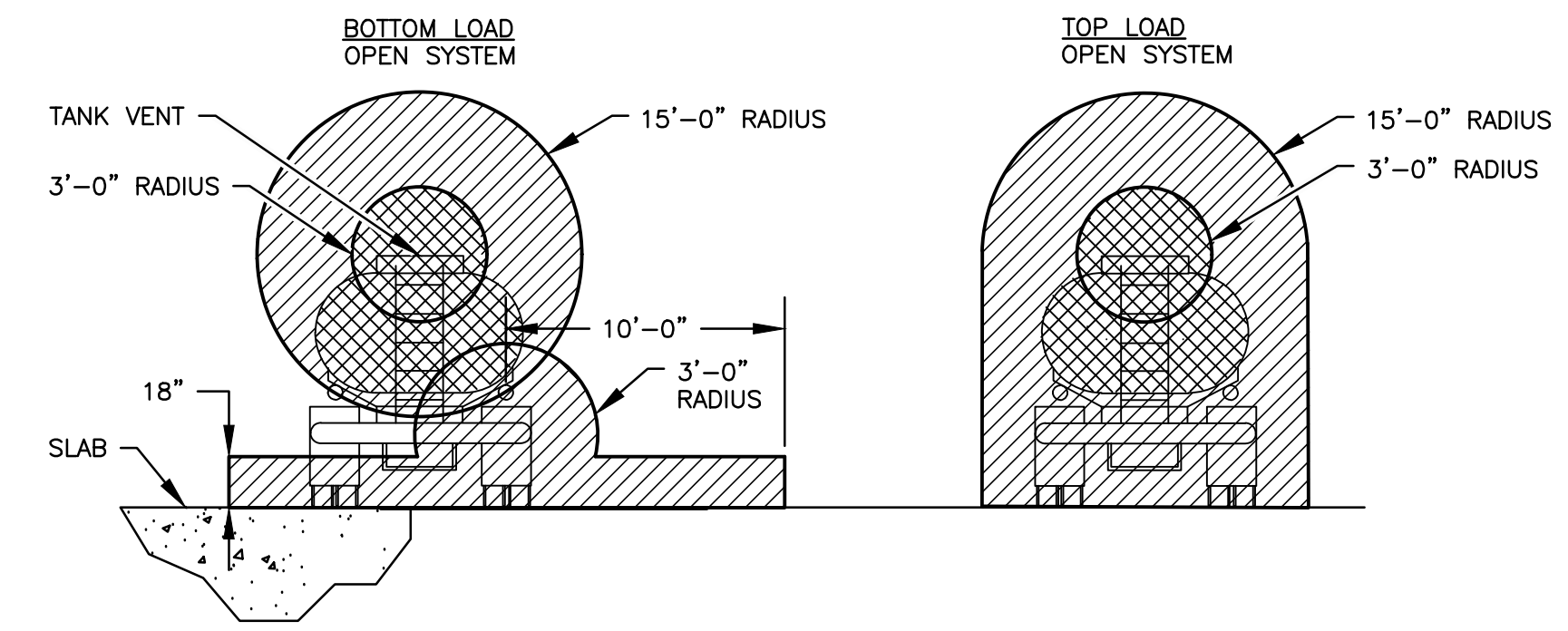
5 ELEVATION AT DIKE HAZARDOUS AREAS
FE5.00 SCALE: NONE



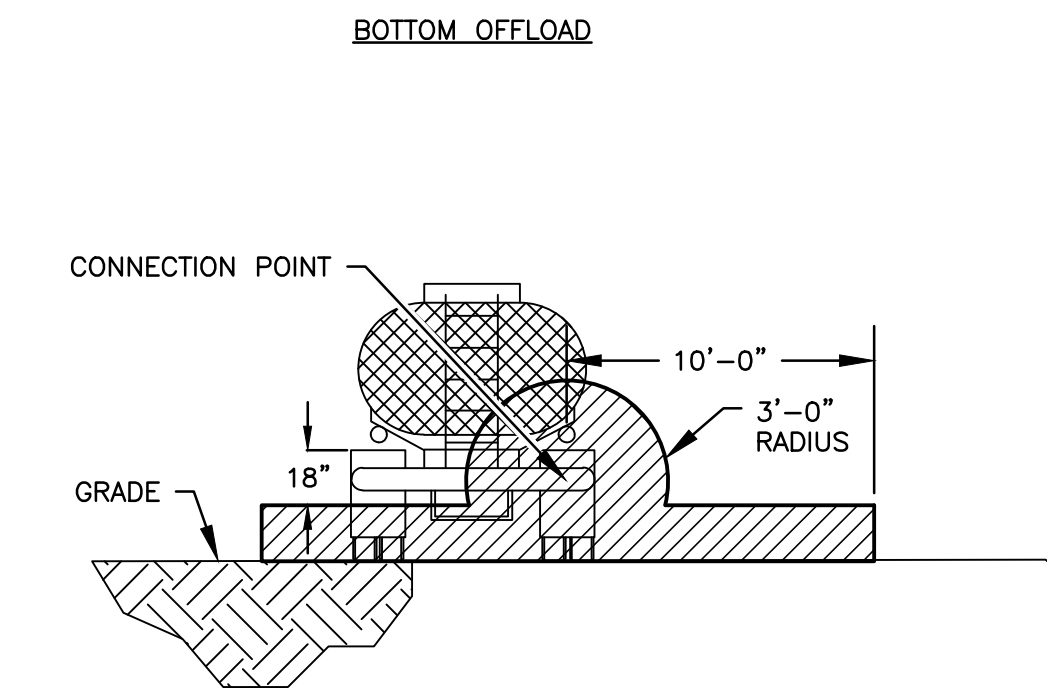
6 ELEVATED STORAGE TANK ELEVATION AT DIKE HAZARDOUS AREAS
FE5.00 SCALE: NONE



7 ELEVATION AT PIT OR SUMP HAZARDOUS AREAS
FE5.00 SCALE: NONE



8 TYPICAL HAZARDOUS CLASSIFICATION FOR LOADING
FE5.00 SCALE: NONE



9 TYPICAL HAZARDOUS CLASSIFICATION FOR OFFLOADING
FE5.00 SCALE: NONE

HAZARDOUS CLASSIFICATION LEGEND	
	CLASS 1, DIVISION 1, GROUP D
	CLASS 1, DIVISION 2, GROUP D

DATE	REVISIONS

CURRIER
ENGINEERING MANAGEMENT CONSULTING

Naples AIRPORT

FUEL FACILITY IMPROVEMENTS PROJECT
NAPLES AIRPORT (APF)

HAZARDOUS AREA LOCATION DETAILS

ISSUED FOR PERMIT

CURRIER & CO., INC.
13323 W. WASHINGTON BLVD., SUITE 206
LOS ANGELES, CA 90066
(310) 279-5050

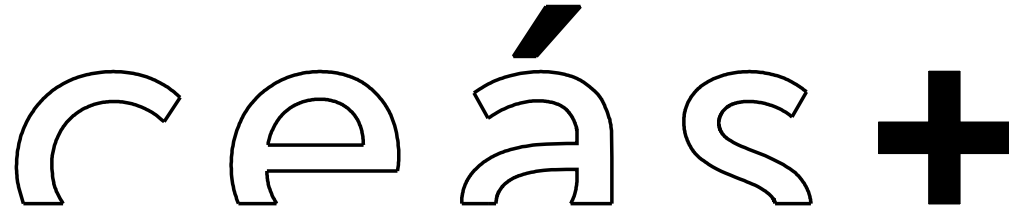
SEAL:
DANIEL SCHIPMAN
No. 80488
STATE OF FLORIDA
PROFESSIONAL ENGINEER
04/02/2024

DANIEL E. SCHIPMAN
PROFESSIONAL ENGINEER
STATE OF FLORIDA
80488 - EXPIRES 02/28/2025

DESIGNED BY: D.E.S. DATE: 04/02/2024
DRAWN BY: M.G. PROJ. NO.: 23049
APPROVED BY: D.E.S. FILE NAME: 23049FE407
SHEET NUMBER:

FE4.07

ISSUED FOR PERMIT

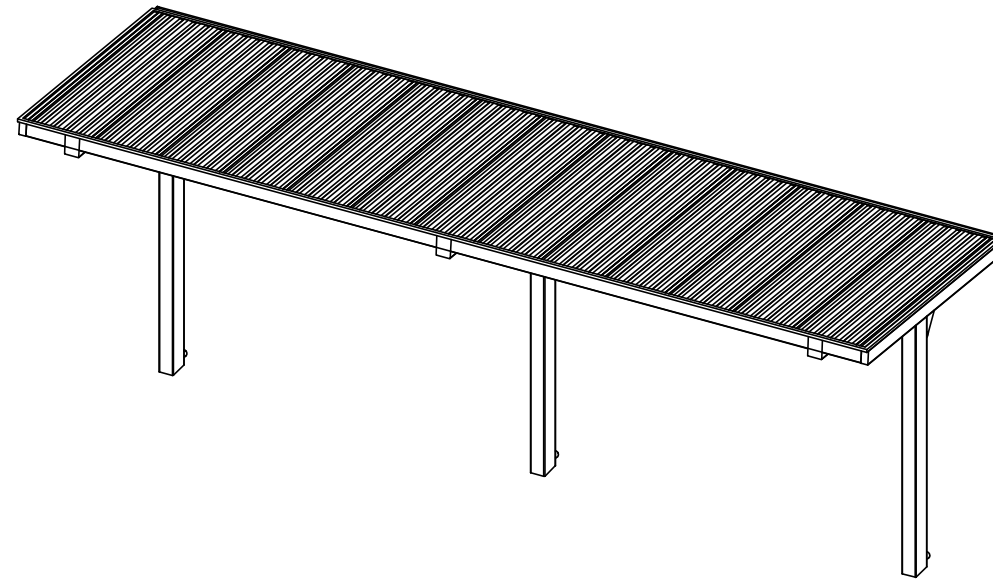


Creative Engineered Architectural Systems

PROJECT: NAPLES AIRPORT
 LOCATION: NAPLES, FL
 ROOF TYPE: MEGA-RIB
 BUILDING NUMBER: C10908
 ORDER NUMBER: 72837

DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT



We have reviewed these preliminary drawings and acknowledge they will serve as the design basis for the engineering package

- Approved as drawn.
- Approved as noted.
- Revision requested.

CERTIFICATES:
 MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 21-0819.13
 PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:
 CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
 CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
 CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
 CITY OF HOUSTON, TX APPROVED FABRICATOR #470
 CLARK COUNTY, NV APPROVED FABRICATOR #264
 STATE OF UTAH APPROVED FABRICATOR 02008-14
 AISC APPROVED FABRICATOR C-00018751

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653



GENERAL NOTES:
 UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. THE MANUFACTURER MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, THE MANUFACTURER MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

STOP!!
NOT FOR CONSTRUCTION
 USE FOR PRELIMINARY
 PLANNING AND ESTIMATING
 ONLY



REV LEVEL: A
 SCALE: 1:96

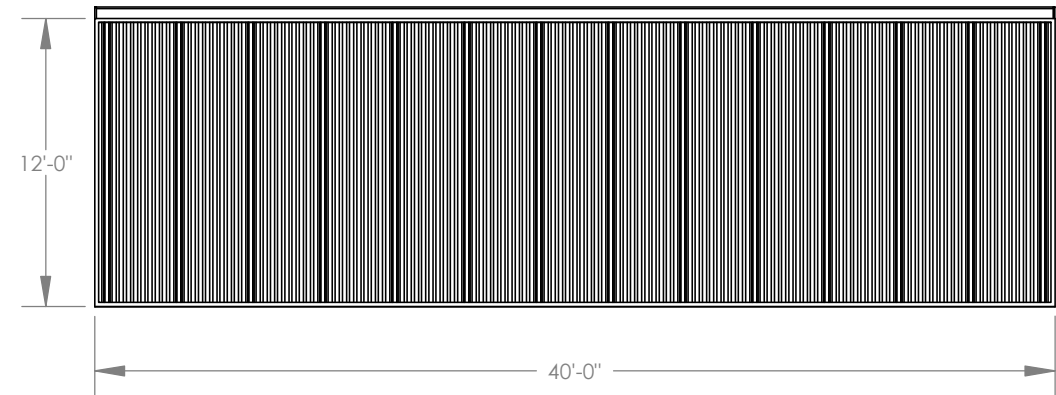
DRAWN BY: chris.lisac

PRINT DATE: 5/13/2022
 JOB NO: C10908
 CAD MODEL: ~E1-CEAS-C10908

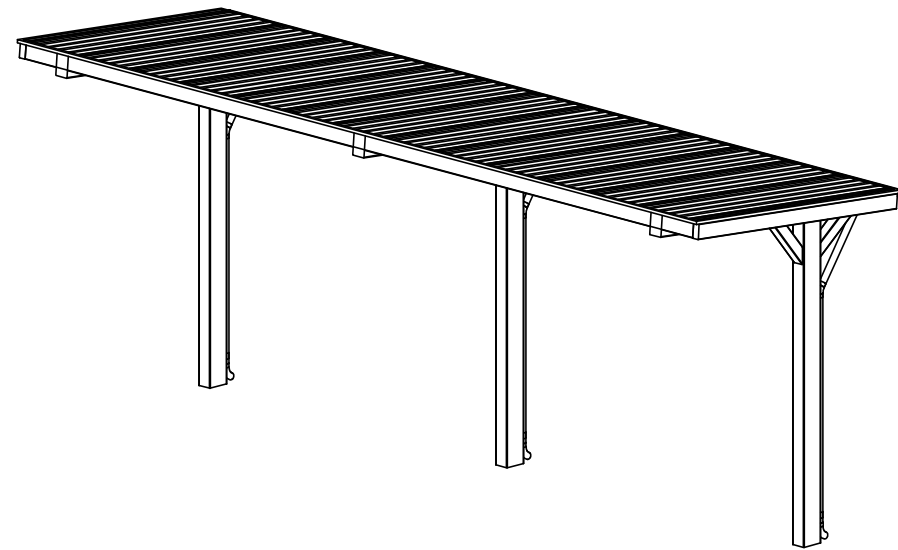
PROJECT: NAPLES AIRPORT
 PROJECT LOCATION: NAPLES, FL
 DRAWING: COVER SHEET

SHEET

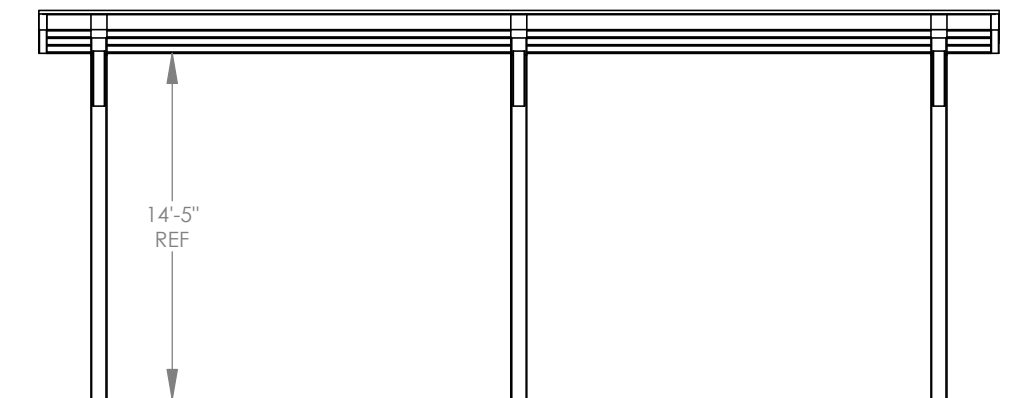




TOP VIEW

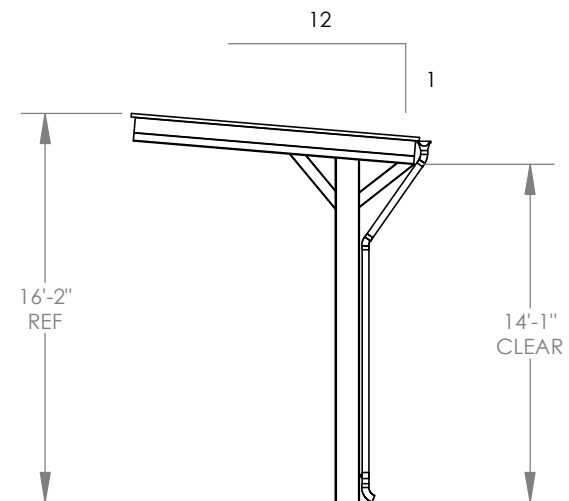


ISOMETRIC VIEW



FRONT VIEW

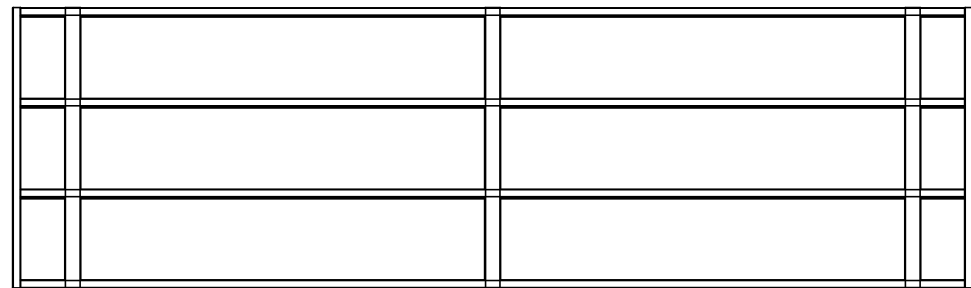
FINISH GRADE.
MOUNTING VARIES
BASED ON ENGINEERING
REQUIREMENTS.



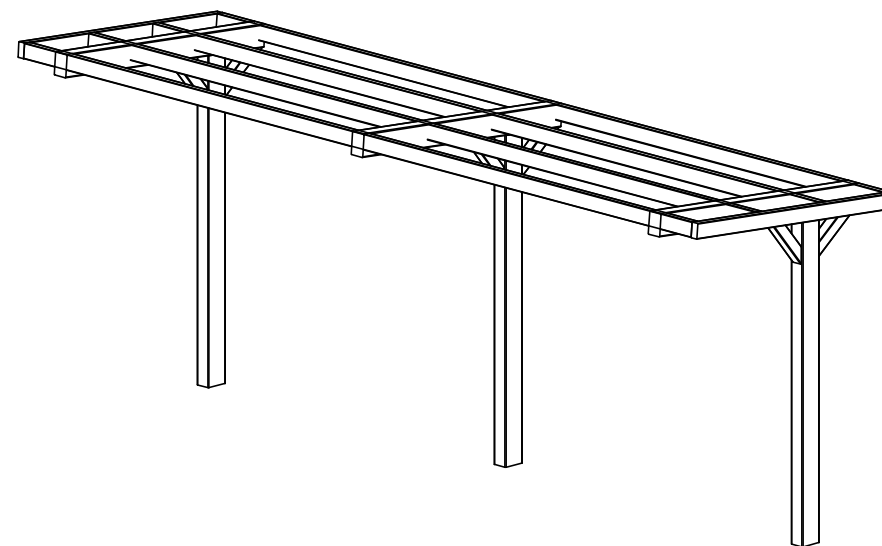
SIDE VIEW

STOP!!
NOT FOR CONSTRUCTION

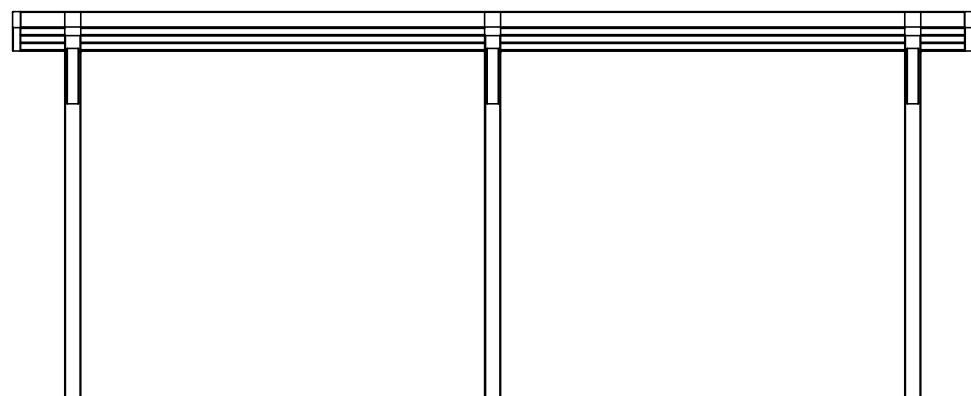
USE FOR PRELIMINARY
PLANNING AND ESTIMATING
ONLY



TOP VIEW

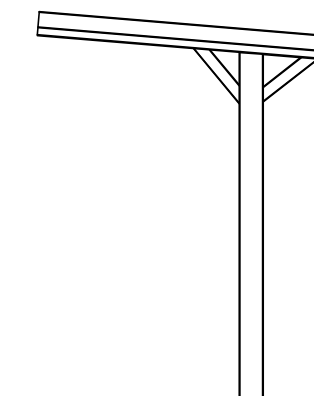


ISOMETRIC VIEW



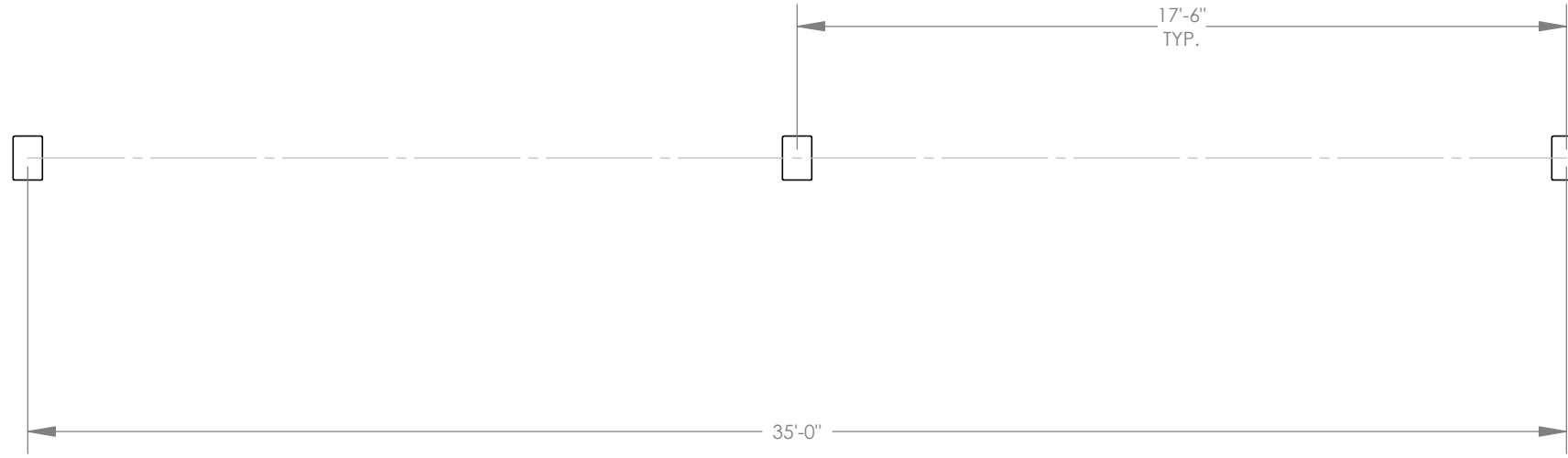
FRONT VIEW

FINISH GRADE.
MOUNTING VARIES
BASED ON ENGINEERING
REQUIREMENTS.



SIDE VIEW

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY
PLANNING AND ESTIMATING
ONLY



BASEPLATE NOTES:

1. CEAS+ ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.

STOP!!
NOT FOR CONSTRUCTION

USE FOR PRELIMINARY
 PLANNING AND ESTIMATING
 ONLY



REV LEVEL:	A	DRAWN BY:	chris.lisac
SCALE:	1:48	PRINT DATE:	5/13/2022
		JOB NO.:	C10908
		CAD MODEL:	~E1-CEAS-C10908

PROJECT:	NAPLES AIRPORT
PROJECT LOCATION:	NAPLES, FL
DRAWING:	COLUMN LAYOUT

SHEET

3



Creative Engineered Architectural Systems



FRAME COLOR: **ALMOND**
ROOF COLOR: **EVERGREEN**
COLORS SHOWN ARE FOR REFERENCE ONLY.

NAPLES AIRPORT
NAPLES, FL
WALKWAY 12X40

APF Naples Fuel Facility Mechanical Room Addition

Customer:

Manufacturer: Leesburg Concrete Company Inc.

1335 Thomas Ave, Leesburg Florida 34748
1-800-882-4177

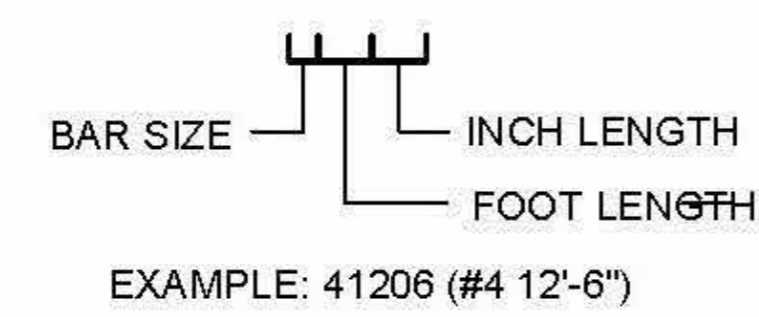
LEGEND

- DENOTES SECTION OR ELEVATION NO.
- DENOTES SHEET NO.
- DENOTES ITEM NO.
- DENOTES PAGE REF. NO.
- DENOTES USAGE DESIGNATION.
- DENOTES ELEVATION

ABBREVIATIONS

- P.D. = PANEL DIMENSIONS
- R.O = ROUGH OPENING
- M.O. = MASONRY OPENING
- B.I.F. = BOTOM IN FORM
- T.I.F. = TOP IN FORM
- TYP. = TYPICAL

BAR MARKS



General Notes

1. Signed and sealed plans are on file with a third party agency
2. Plan review inspection required by chapter 633 F.S. shall be done on site by local fire safety inspector
3. FI Product Approval:
 - 3.1 Doors: FL 14482-R12 or 16355-R4
 - 3.2 Window: FL 15849-R5
4. Reinforcement to be 1 1/2" clear from all perimeter edges and in center of thickness unless shown otherwise
5. Welded wire fabric may be substituted for rebar mat
6. Plumbing and Electrical Systems are pre-installed

Site installed items not by LCCI

1. Foundation system
2. Hot Water or Tempered Water System
3. Fire alarm systems
5. Connection to Water
6. Connection to Electricity

1. Code standard requirements

- 1.1 2023 Florida Building Code 8th Edition
- 1.2 2023 Accessibility Code Florida 8th Edition
- 1.3 2023 Mechanical, Plumbing Code
- 1.4 2023 Florida Fire Prevention Code
- 1.5 2020 NEC
- 1.6 ASCE 7-22
- 1.7 ASI318-14
- 1.8 PPCI 8th Edition
- 1.9 Steel Construction Manual
- 1.10 Florida Energy Code Exemption
- 1.11 FBC C101.4.2.4 Buildings (Exemption #2)

2. Loads

- 2.1 Roof Live Load: 60 PSF
- 2.2 Wind Loading: 143 MPH (ASD)/ 185 MPH (Ultimate)
- 2.3 Seismic Design Catagory A

3. Wind Design Criteria

- 3.1 Risk Catagory III
- 3.2 Exposure Catagory C

4. Materials

- 4.1 Concrete =
 - 4.1.1 Release = 2,500 PSI
 - 4.1.2 28 Day = 5,000 PSI
- 4.2 Rebar: ASTM A615, Grade 60
- 4.3 Welded Wire Fabric: ASTM A185, Grade 60 (WWR W4 x W4 - 3x3)

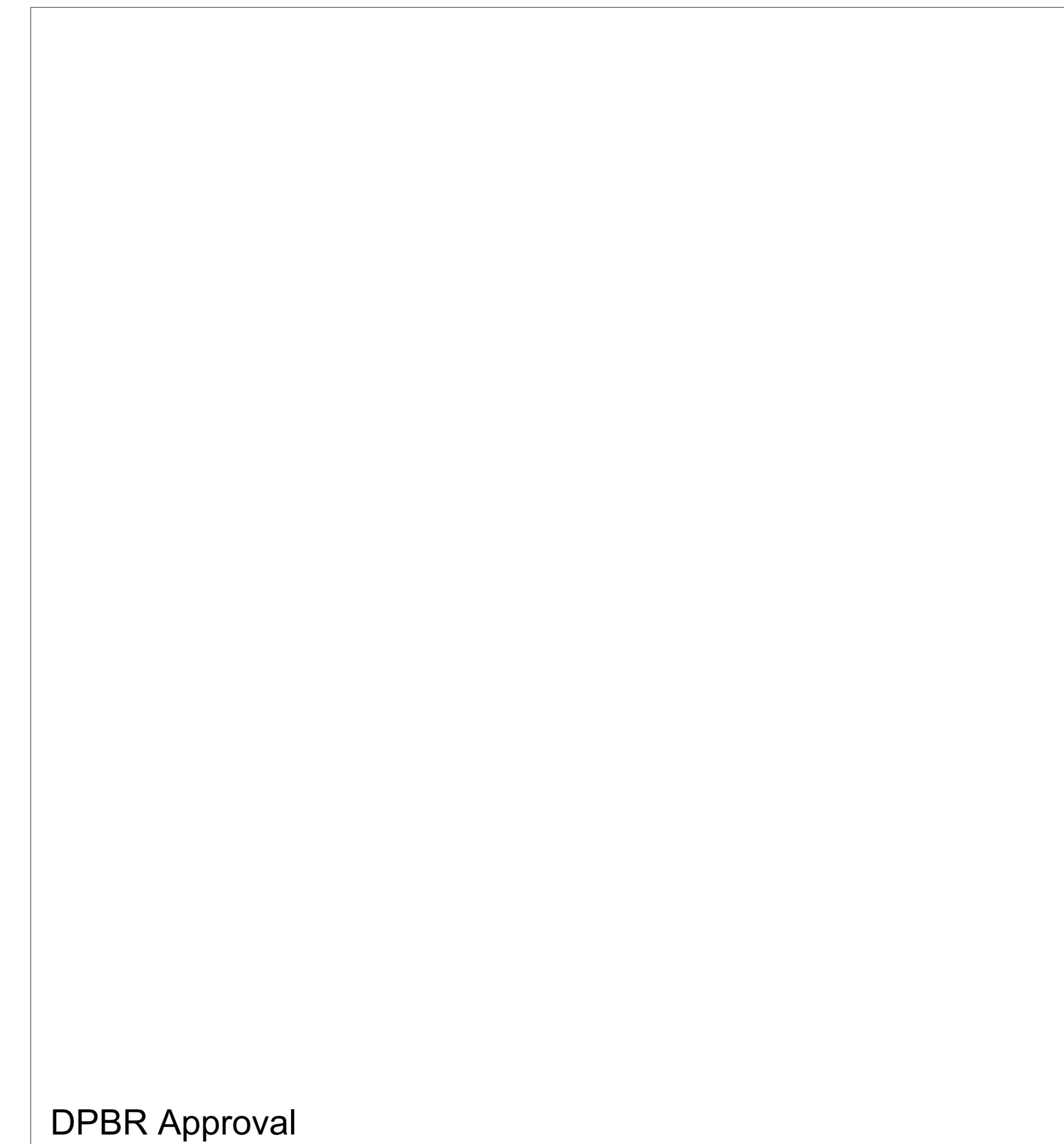
5. Utility

- 5.1 Construction Type V-B

6. Occupancy

- 6.1 Utility

Note: Pages may be omitted is not needed



DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

Scale

Drawn By

Chad Zachary

Issue Date

2/15/2024 9:40:12 AM

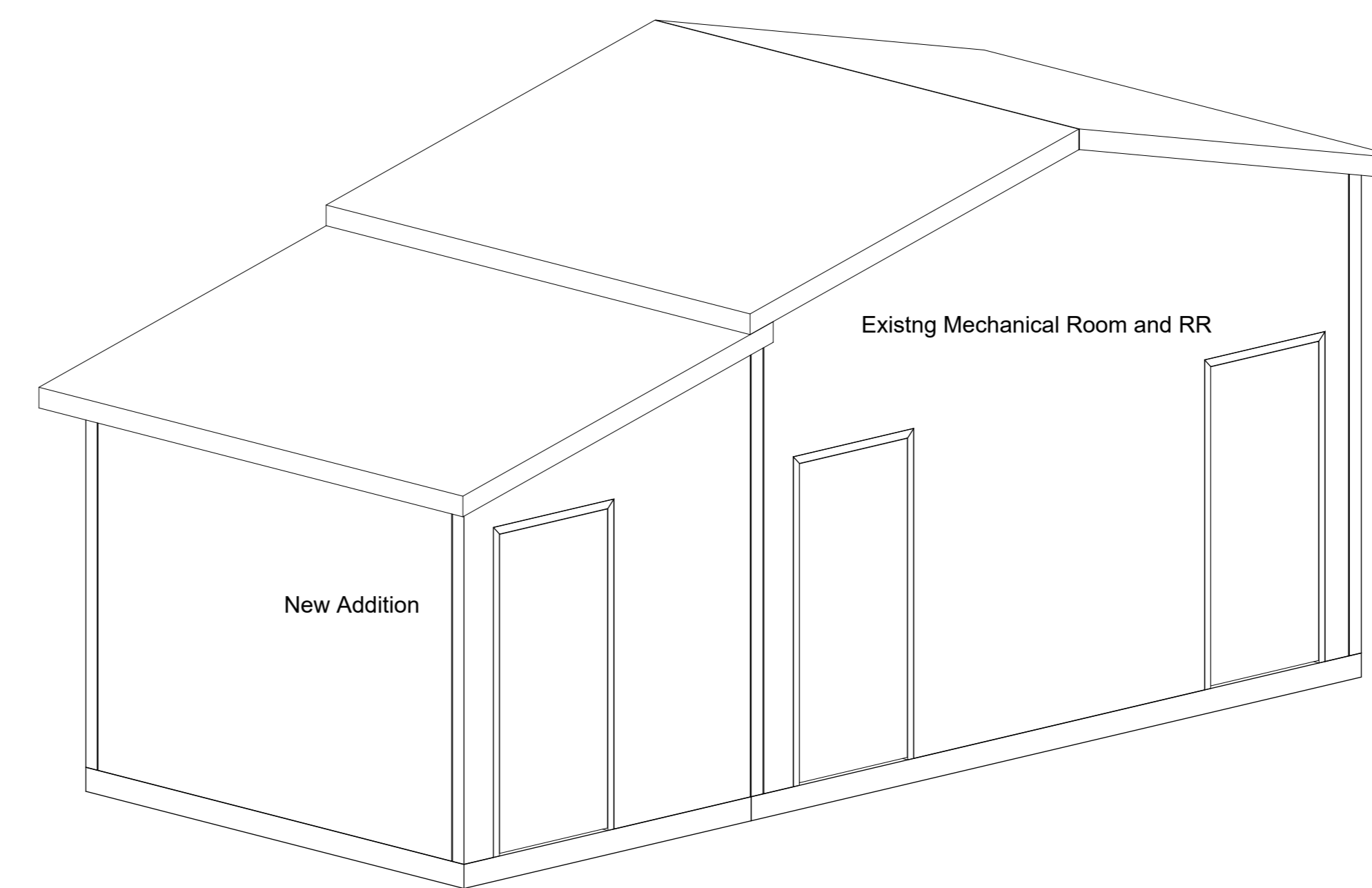
Cover

A0.00

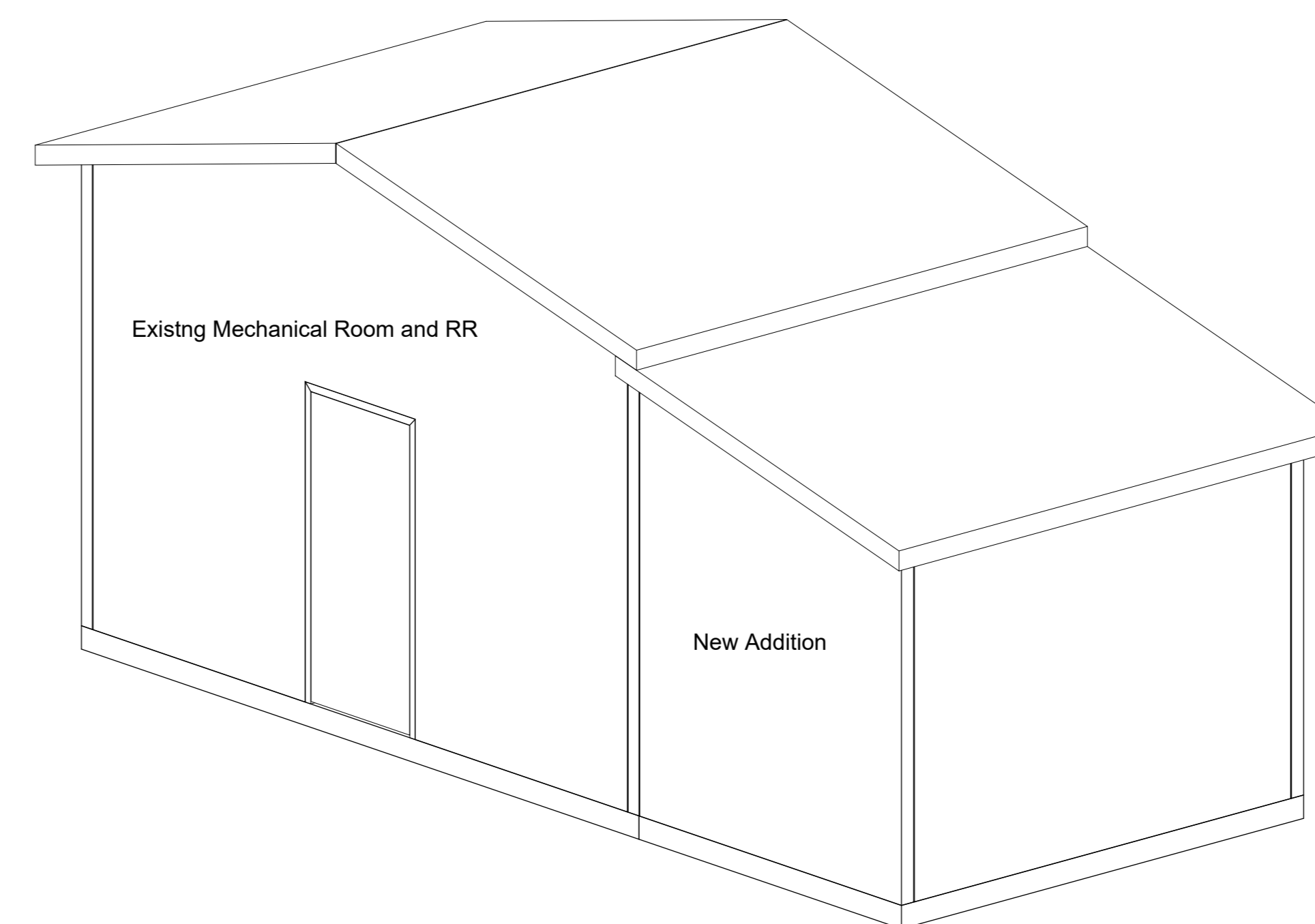
Building Notes

1. Building is delivered as a shell with interior finishes only. Fire alarm and low voltage system are not included with the precast scope
2. Exterior Wall Finish: TBD
3. Exterior Roof: TBD
4. Interior and Exterior Paint: Loxon Conditioner/Primer
Finish Coats: 2 - Coats Superpaint By Sherwin Williams

- a. Exterior Wall Color: TBD
- b. Exterior Trim Color: TBD
- c. Interior Ceiling Color: TBD
- d. Interior Wall Color: TBD
- e. Concrete Roof Color: TBD
- f. Concrete Floor Color: TBD
- g. Door Color: TBD



② Perspective



① Perspective B

STATE STAMP

ENG STAMP

DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

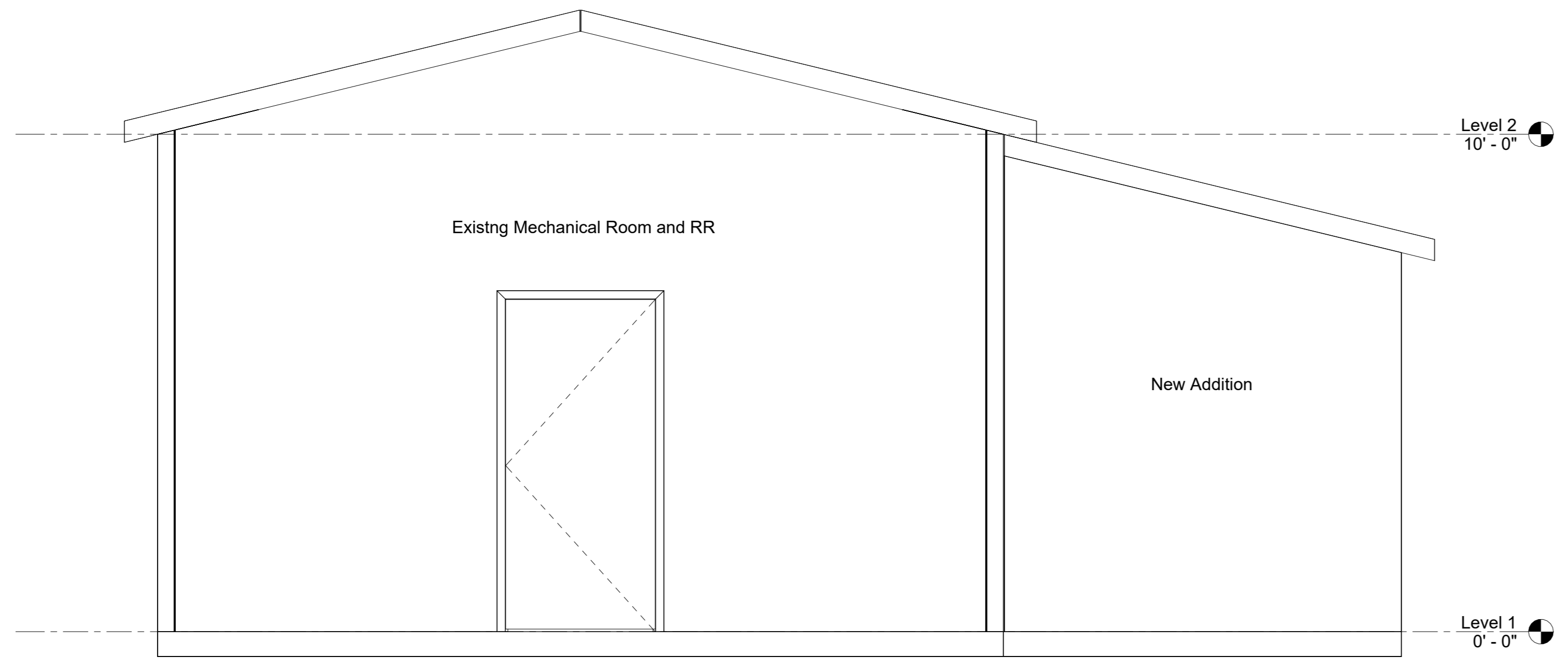
Scale

Drawn By
Chad Zachary

Issue Date
2/15/2024 9:40:12 AM

Building Notes

A1.01

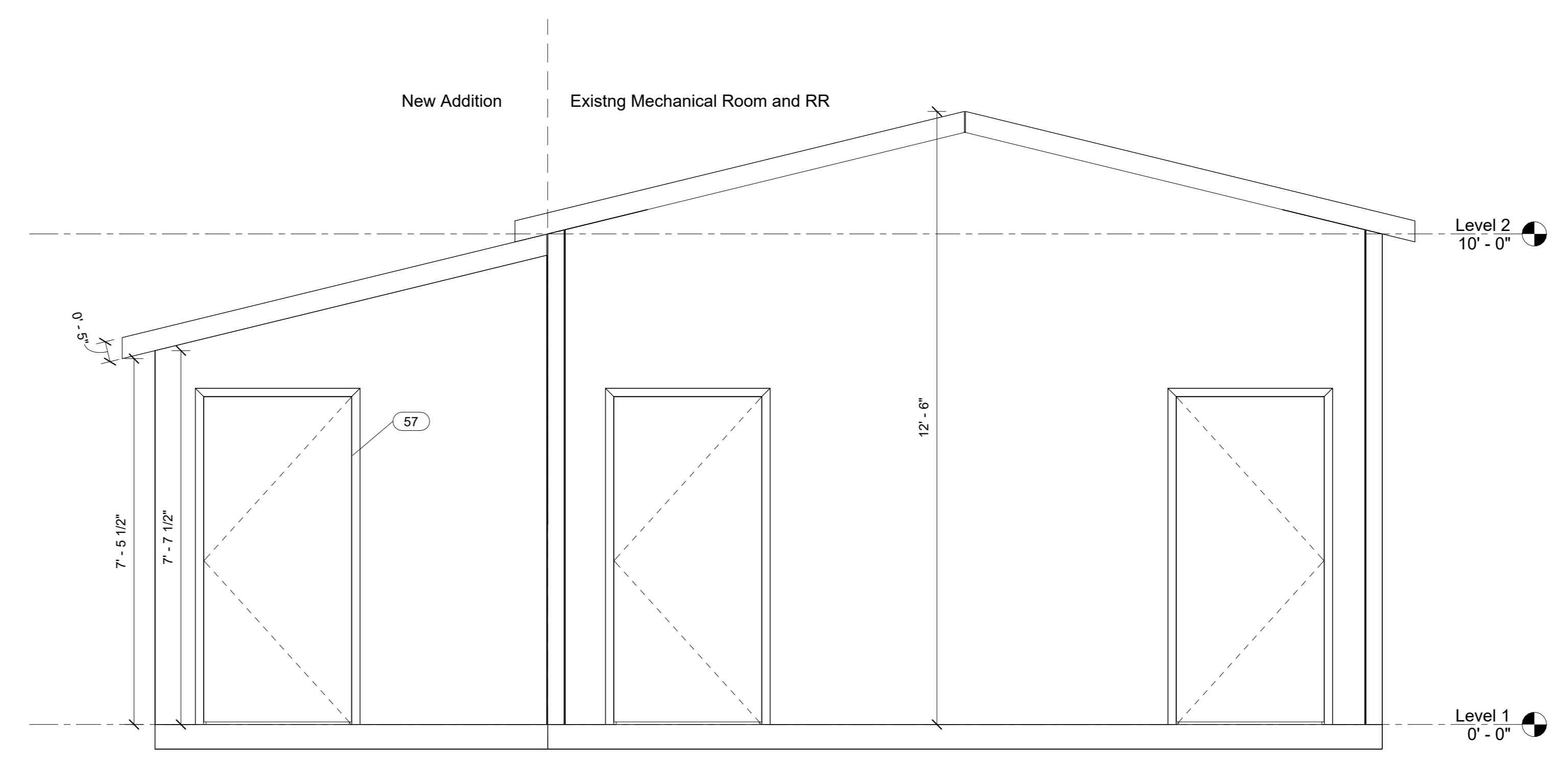


Door Schedule		
Mark	Type	Count
55	36" x 80" Hollow Metal Door and Frame	1
56	36" x 80" Hollow Metal Door and Frame	1
57	36" x 80" Hollow Metal Door and Frame	1
58	36" x 80" Hollow Metal Door and Frame	1

① North
1/2" = 1'-0"

STATE STAMP

ENG STAMP



② South
1/2" = 1'-0"

DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

Scale
1/2" = 1'-0"

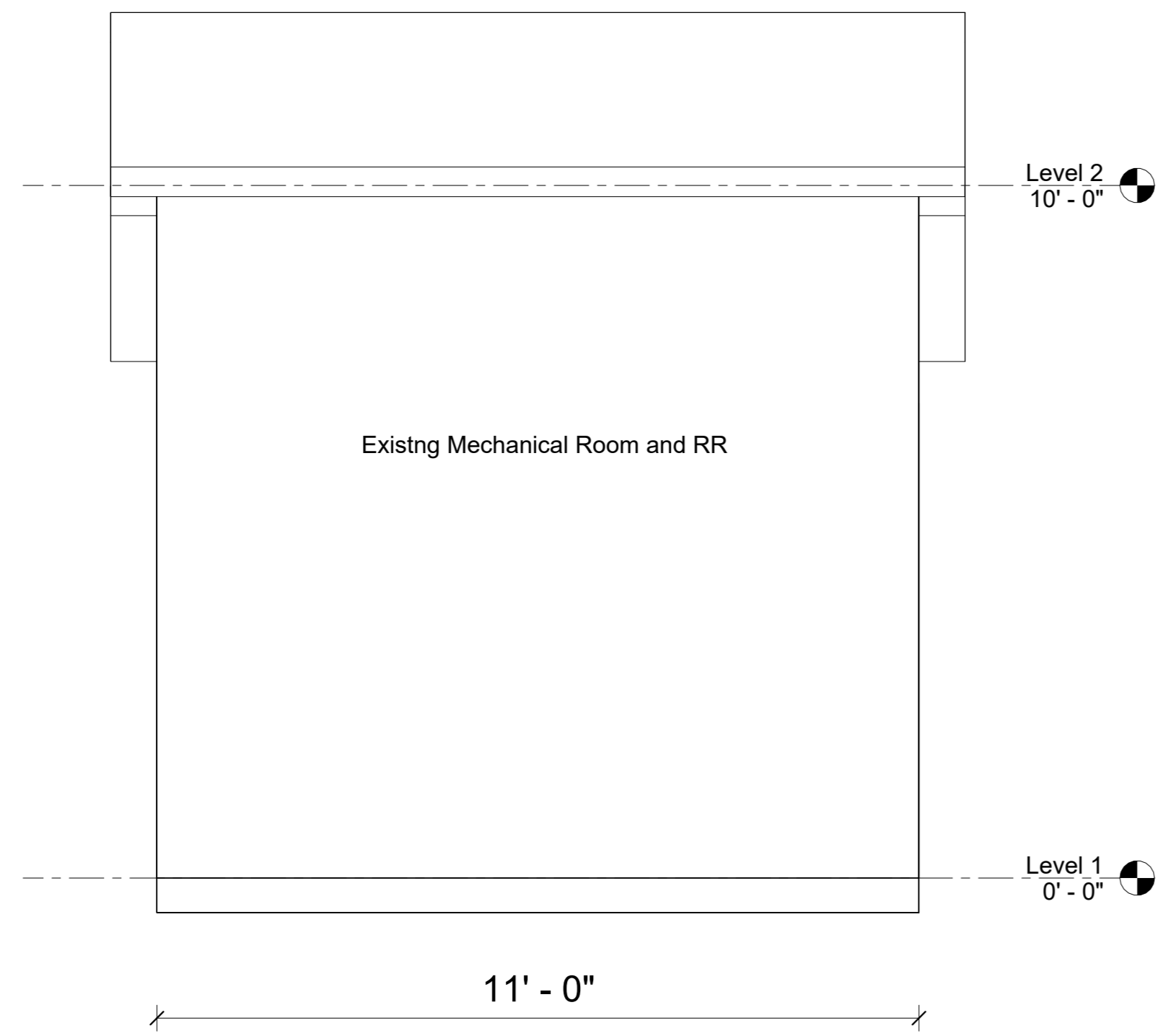
Drawn By
Chad Zachary

Issue Date
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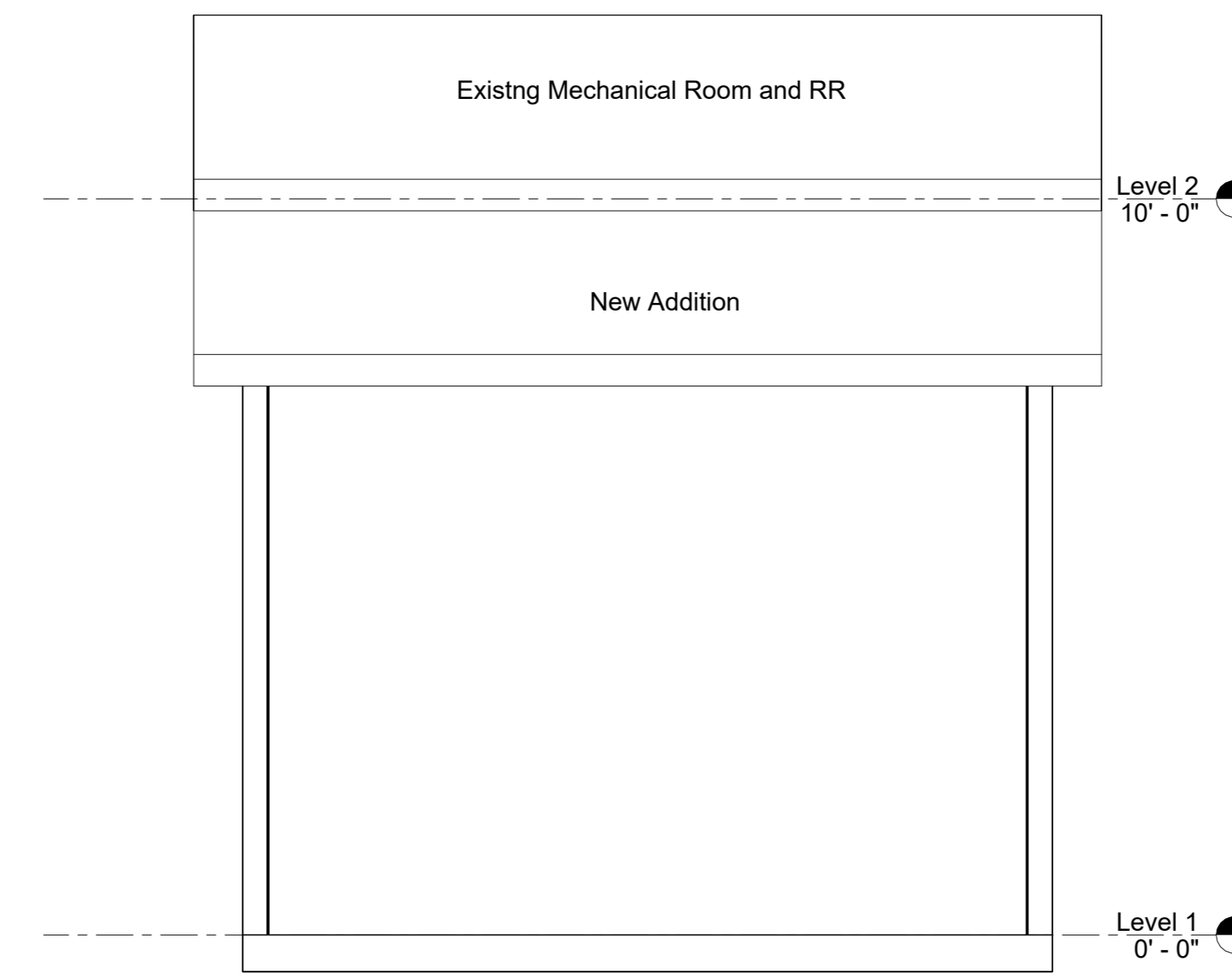
Elevation

A2.01

Door Schedule		
Mark	Type	Count
55	36" x 80" Hollow Metal Door and Frame	1
56	36" x 80" Hollow Metal Door and Frame	1
57	36" x 80" Hollow Metal Door and Frame	1
58	36" x 80" Hollow Metal Door and Frame	1



① East
1/2" = 1'-0"



② West
1/2" = 1'-0"

STATE STAMP

ENG STAMP

DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

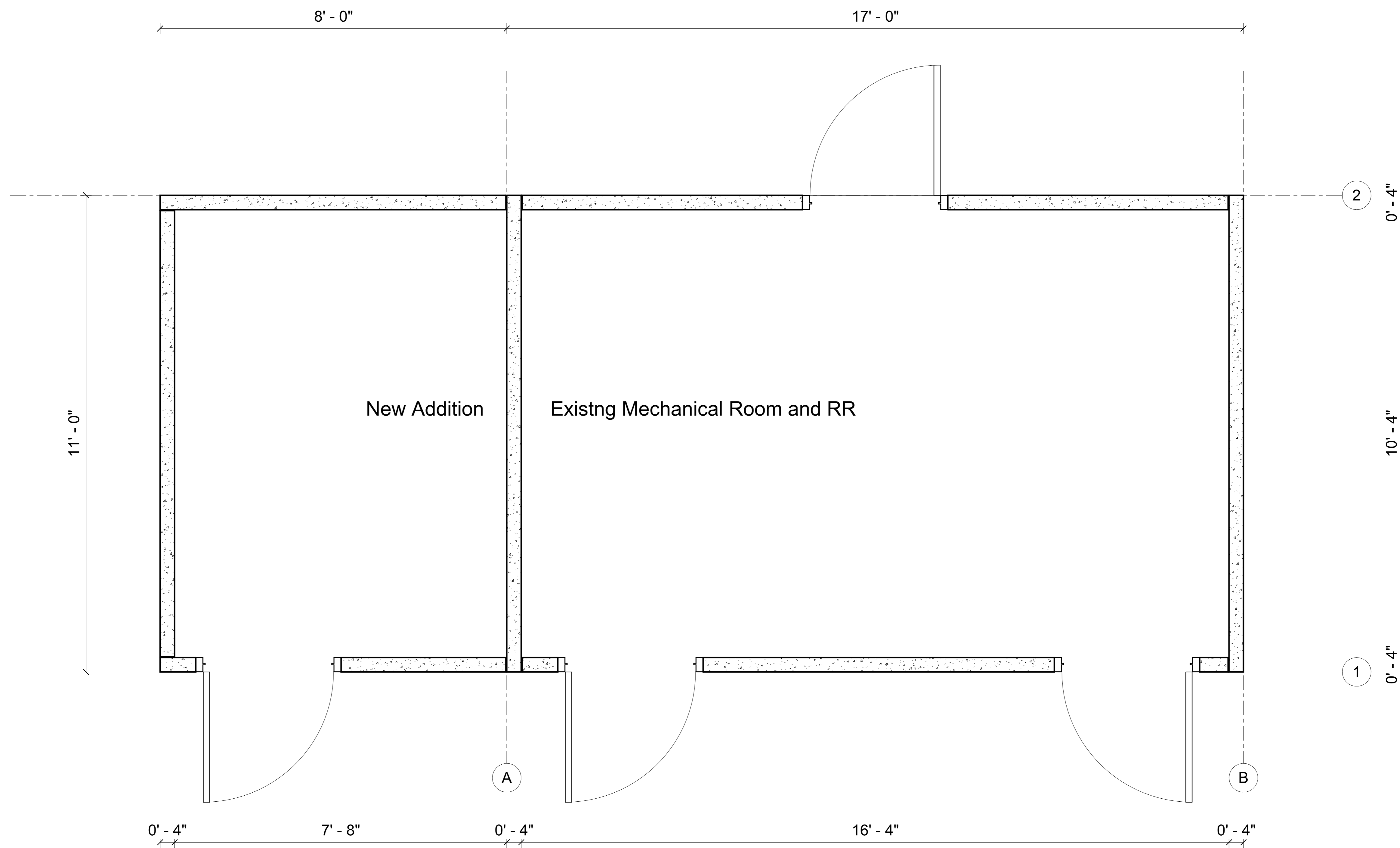
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Drawn By
Chad Zachary

Issue Date
2/15/2024 9:40:12 AM

Elevation

A2.02



① Floor Plan
3/4" = 1'-0"

STATE STAMP

ENG STAMP

Door Schedule		
Mark	Type	Count
55	36" x 80" Hollow Metal Door and Frame	1
56	36" x 80" Hollow Metal Door and Frame	1
57	36" x 80" Hollow Metal Door and Frame	1
58	36" x 80" Hollow Metal Door and Frame	1

DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

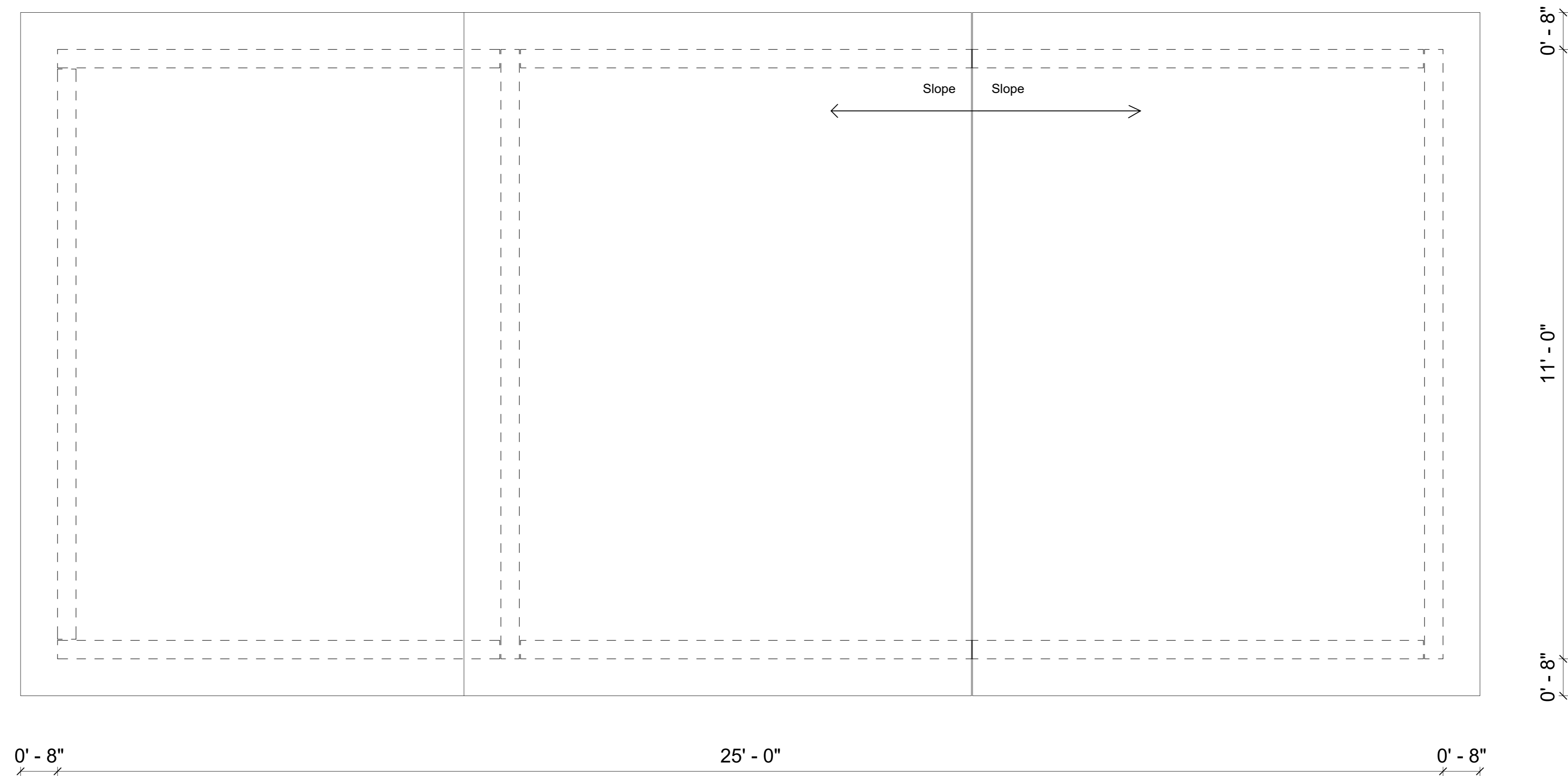
Scale
3/4" = 1'-0"

Drawn By
Chad Zachary

Issue Date
2/15/2024 9:40:12 AM

Floor Plan

A3.01



① Roof Plan
3/4" = 1'-0"

STATE STAMP

ENG STAMP

DATE	DESCRIPTION	INI	REV #
2/15/2024	For Architectural Review		1

APF Naples Fuel Facility

Scale
3/4" = 1'-0"

Drawn By
Chad Zachary

Issue Date
2/15/2024 9:40:12 AM

Roof Plan

A3.02