



ADDENDUM 2

September 8, 2020

RFQ AP 67-20

FUEL FARM STORAGE SYSTEM MAINTENANCE AND REPAIR at DESTIN-FORT WALTON BEACH AIRPORT (VPS)

Please find attached the Document and information below, for the above referenced Addendum No. 2. This Addendum is hereby made a part of the Contract Documents and Specifications of the above referenced project. All other requirements of the original Contract Documents and Specifications shall remain effective. The purpose of Addendum No. 2 is to set forth changes and/or additional information as referenced herein.

The last day for questions has been extended from 8 September, 2020 at 3 p.m. C.D.S.T. until 14 September, 2020 at 3 p.m. C.D.S.T.

Note: The RFP Opening Date & Time remains unchanged.

The Purchasing Department has received the questions stated below as of 4 September, 2020, which are summarized in Item I.

I. Question: “What is the preferred method of bid submittal?”

Answer: Interested Respondents desiring consideration shall provide one (1) original and one (1) thumb drive of their Request for Proposals (RFP) response with the Respondent’s proposal.

Question: “Who is the current contract provider?”

Answer: There is no current contract provider.

Question: “Who currently holds the contract for the fuel farm maintenance?”

Answer: There has never been a company under contract for this requirement.

Question: “What is the location (city) of their main office as it compares to distance from the work site?”

Answer: The airport offices are approximately 400 yards from the fuel farm.

Question: “Does the current service provider conduct monthly quality metrics and/or KPI meetings with internal sources or POC?”

Answer: There is no current contract or contract provider.

Question: “Does the current provider utilize any service cloud-based software capable of giving access to a customer portal?”

Answer: There is no current contract or contract provider.

Question: “Does the current provider deploy resources with the service technician such as a technician vehicle, additional parts, service items, etc.?”

Answer: There is no current contract or contract provider.

Question: “Is the current service provider able to deploy additional man-power and equipment resources to assist with repair, break/fix, heavy maintenance, if necessary?”

Answer: There is no current contract or contract provider.

Question: “Are there separate service providers for tank cleaning, electrical, welding, concrete, fencing repair, annual calibrations, etc.?”

Answer: Barcor Enterprises provided service for tank cleaning and annual fuel farm inspections/calibrations through the purchase order process. Okaloosa County Airport staff ordainates all other.

Question: “Does the current service provider hold parts inventory for the fuel farm or store any type of equipment?”

Answer: There is no current contract or contract provider.

Question: “Is there a list of parts that we would be required to have “on-hand”?”

Answer: It is the contractor’s responsibility to have all of the necessary parts “on-hand” to complete all requirements of the service.

Question: “What is the hourly bid rate or monthly bill rate from the current service provider?”

Answer: There is no current contract or contract provider.

Question: “What is the annual invoiced amount in total from the current service provider (on average)?”

Answer: There is no current contract or contract provider.

Question: “What is the current mark up on parts and material?”

Answer: There is no current contract or contract provider.

Question: “What is the term or length of the current contract/bid?”

Answer: There is no current contract or contract provider.

Question: “How many employees does the current provider send to the job site for each inspection?”

Answer: There is no current contract or contract provider.

Question: “How many employees does the current provider send to the job site for each inspection?”

Answer: There is no current contract provider.

Question: “On average, how many times a month/year is the current contractor called out for emergency repair?”

Answer: There is no current contract or contract provider. Historically, the Airport has between 2 to 3 emergency repairs per year.

Question: “What is the response time of the current provider for the emergency repair?”

Answer: There is no current contract or contract provider.

Question: “What is the average response time for a break/fix repair?”

Answer: Not applicable because there is no current contract or contract provider

Question: “What is the current age of the equipment and tanks?”

Answer: The 2-MOGAS and 2-JetA tanks are from 2006 and the 2 New JetA tanks were added in 2019.

Question: “What is the current condition of the equipment?”

Answer: The current condition is good.

Question: “Who was the manufacturer of the tanks and equipment/pumping skids and dispensing equipment?”

Answer: Unknown

Question: “Who initially installed the fuel farm?”

Answer: Barcor Enterprises Inc.

Question: “What type of meters/registers (electronic or mechanical) do you have on the system?”

Answer: Veeder Root

Question: “Do you utilize any tank monitoring, inventory monitoring or electronic Wi-Fi/cell data transfer?”

Answer: No

Question: “Do you utilize any back office software we need to be aware of to capture fuel inventory management?”

Answer: Only the previously mentioned Veeder Root

Question: “Does the city/county have engineered drawings and controls schematics for the fuel farm and related equipment?”

Answer: Yes – Provided, as attached, within Addendum No. 2. See attached VPS Fuel Farm Original Drawings and the VPS Fuel Farm Expansion, Record Drawings.

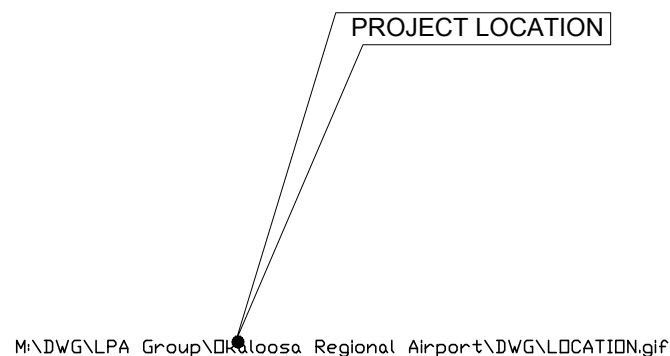
Question: “Would we be able to send a technician to the site to complete a site survey and/or walk-thru?”

Answer: Yes – The information for the site visit was provided within Addendum No. 1. There will be a site visit scheduled at the VPS Airport on 10 September, 2020 at 2 p.m. C.D.S.T.

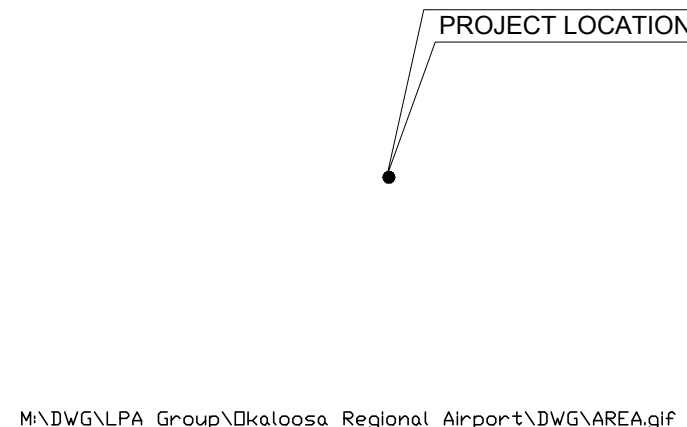
OKALOOSA REGIONAL AIRPORT



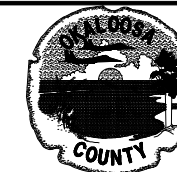
FUEL FARM FACILITY OKALOOSA COUNTY, FLORIDA



AREA MAP



LOCATION MAP



OKALOOSA REGIONAL AIRPORT
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OKALOOSA COUNTY, FLORIDA

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Designer: SWP	Checked by:
Technician: SWP	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

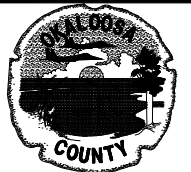
Drawing Name:
TITLE SHEET

FAA A.J.P. PROJECT NUMBER:


ENGINEER OF RECORD

Date: 5/15/06
Scale: NONE
Drawing Number: G-001

DRAWING INDEX - OKALOOSA REGIONAL AIRPORT		
SHEET NUMBER	DESCRIPTION	SCALE
G-001	TITLE SHEET	N/A
G-002	INDEX OF DRAWINGS	N/A
C-001	CIVIL LEGEND, ABBREVIATIONS AND GENERAL NOTES	N/A
C-101	STAKING PLAN	1"=20'
C-102	UTILITY PLAN	1"=20'
C-103	GRADING, DRAINAGE AND EROSION CONTROL PLAN	1"=20'
C-501	CONSTRUCTION DETAILS	N/A
C-502	UTILITY DETAILS	N/A
S-101	STRUCTURAL TANK FARM PLAN	N/A
S-102	STRUCTURAL DETAILS	N/A
S-103	STRUCTURAL DETAILS	N/A
M-001	MECH. LEGEND, ABBREVIATIONS AND GENERAL NOTES	N/A
M-002	FUEL FARM FLOW DIAGRAMS	N/A
M-101	MECHANICAL SITE PLAN	1"=10'
M-102	PUMP ISLAND ENLARGED PLAN	1/2"=1'-0"
M-103	LOADING AND OFFLOADING ENLARGED PLANS	1/2"=1'-0"
M-104	MOGAS DISPENSER SITE PLAN	1"=10'
M-401	TANK LAYOUTS	1/2"=1'-0"
M-501	MECHANICAL DETAILS	N/A
M-502	MECHANICAL DETAILS	N/A
E-001	ELECTRICAL LEGEND AND ABBREVIATIONS	N/A
E-002	HAZARDOUS AREA CLASSIFICATIONS	N/A
E-101	ELECTRICAL POWER & CONTROL PLAN - TANK FARM	1/16"=1'-0"
E-102	ELECTRICAL POWER & CONTROL PLAN - RENTAL CAR FUEL ISLANDS	1"=10'
E-103	GROUNDING PLAN - TANK FARM	1/16"=1'-0"
E-104	GROUNDING PLAN - RENTAL CAR FUEL ISLANDS	1"=10'
E-401	ENLARGED ELECTRICAL POWER PLAN - RENTAL CAR FUEL ISLANDS	1/4"=1'-0"
E-501	ELECTRICAL DETAILS	N/A
E-502	ELECTRICAL DETAILS	N/A
E-503	ELECTRICAL DETAILS	N/A
E-504	ELECTRICAL DETAILS	N/A
E-601	ONE-LINE DIAGRAM	N/A
E-602	PANEL BOARD SCHEDULES	N/A



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Designer: BCB	Checked by: BCB
Technician: BCB	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL
AIRPORT
FUEL FARM FACILITY

Drawing Name:
INDEX OF
DRAWINGS

FAA A.I.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: G-002



OKALOOSA REGIONAL AIRPORT
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Designer: TJB	Checked by: LEC
Technician: SRW	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

Drawing Name:
CIVIL LEGEND,
ABBREVIATIONS AND
GENERAL NOTES

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: C-001

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BC	BOTTOM OF CURB
C.I.	CAST IRON
C.O.	CLEANOUT
DIP	DUCTILE IRON PIPE
DW	DOUBLE WALLED
EL.	ELEVATION
HORIZ	HORIZONTAL
I.D.	INSIDE DIAMETER
INV.	INVERT
LF	LINEAR FEET
MAX	MAXIMUM
MECH.	MECHANICAL
MIN	MINIMUM
M.J.	MECHANICAL JOINT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
SAN.	SANITARY
SD	STORM DRAIN
SS	SANITARY SEWER
T/G	TOP OF GRATE
TYP	TYPICAL
VERT	VERTICAL
W	WATER

CIVIL LEGEND

EXISTING		NEW
N/A	SEWER LINE	— ss — ss —
— w — w —	WATER LINE	— w — w —
N/A	SILT FENCE	— sf — sf —
N/A	STORM DRAINAGE LINE	— sd — sd —
N/A	FIRE HYDRANT	
N/A	DROP INLET	
N/A	CLEANOUT	
N/A	THRUST BLOCK	
N/A	CONCRETE PAVEMENT	
N/A	ASPHALT PAVEMENT (HEAVY DUTY)	
N/A	SILT FENCE	
N/A	CONSTRUCTION ENTRANCE	
N/A	FENCE	
— — — — —	MINOR CONTOUR	
— — — — —	MAJOR CONTOUR	
N/A	GRASSED AREA	

CIVIL GENERAL NOTES

- ALL TOPSOIL AND EXCAVATED MATERIAL SHALL BE STOCKPILED IN AN APPROVED AREA.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND COUNTY REGULATIONS APPLICABLE TO CONSTRUCTION OF THIS SITE.
- ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, CENTERLINE OF UTILITY, CENTERLINE OF MANHOLE OR CATCH BASIN, CENTERLINE OF ROAD, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AND NEWLY STABILIZED AREAS DAILY; ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE FUNCTIONING PROPERLY. DAMAGED CONTROLS SHALL BE REPLACED BY THE END OF THE WORKDAY.
- ALL REQUIRED SEDIMENT AND EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS, SHALL BE PROVIDED, INSTALLED, AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. ACTUAL EXISTING CONDITIONS MAY VARY FROM WHAT IS REPRESENTED IN THESE DRAWINGS. CONTRACTOR SHALL IDENTIFY EXACT LOCATION IN THE FIELD PRIOR TO DIGGING AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE OF UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE COUNTY ENGINEER AND/OR THE COUNTY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.
- SEE SHEET C-503 FOR EROSION AND SEDIMENT CONTROL NOTES. ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBANCE.
- CONTRACTOR TO ASSURE ALL EXISTING TOPS OF MANHOLES AND VALVE BOXES ARE RAISED AND/OR LOWERED TO BE FLUSH WITH FINISHED GRADES.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO ACCOMPLISH INSTALLATION OF THE APPURTENANCES DEPICTED IN THESE DOCUMENTS.



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Designer: TJB	Checked by: LEC
Technician: SRW	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

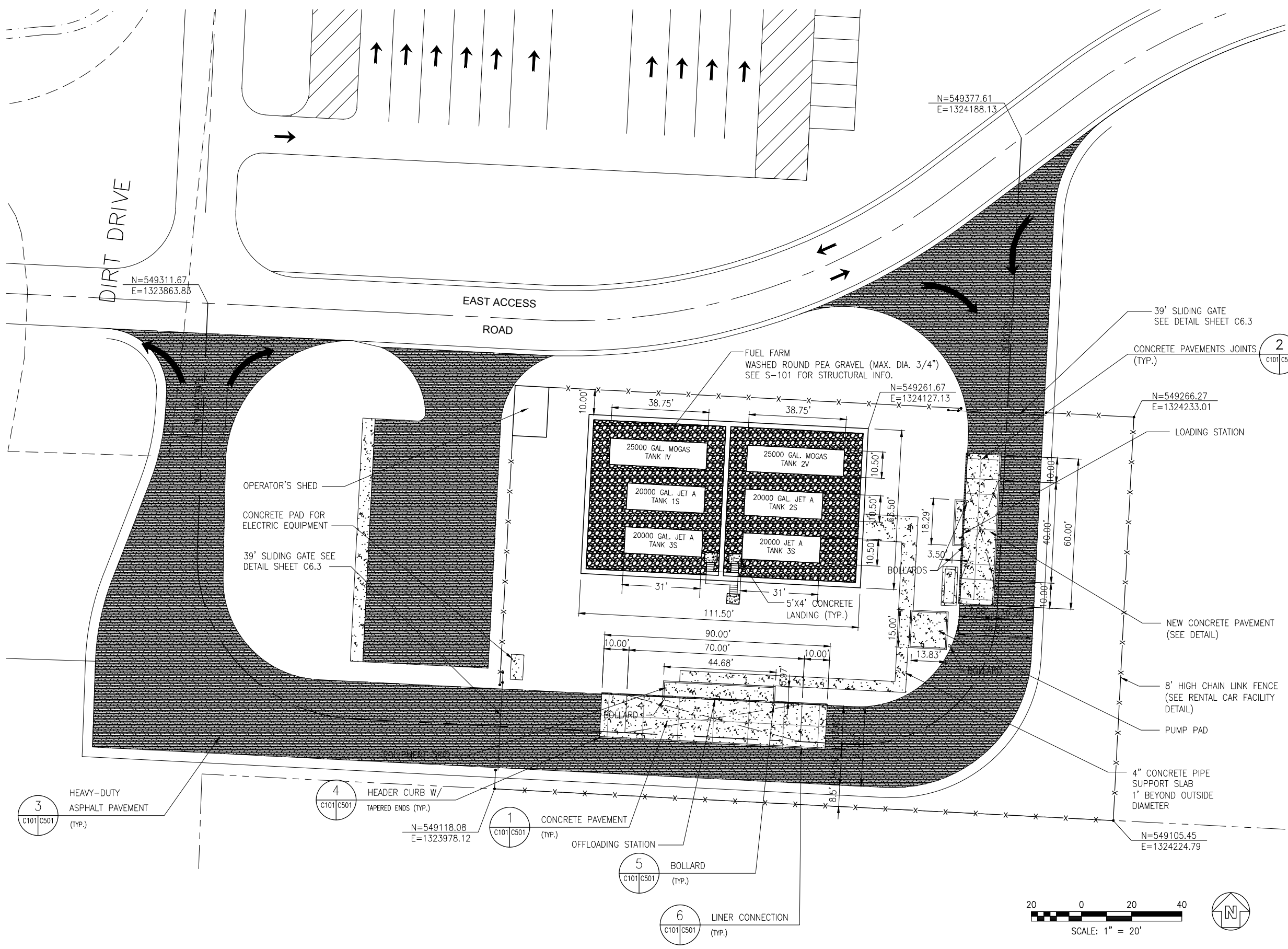
Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
STAKING PLAN

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: 1"=20'
Drawing Number: C-101



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Designer: TJB	Checked by: LEC
Technician: SRW	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

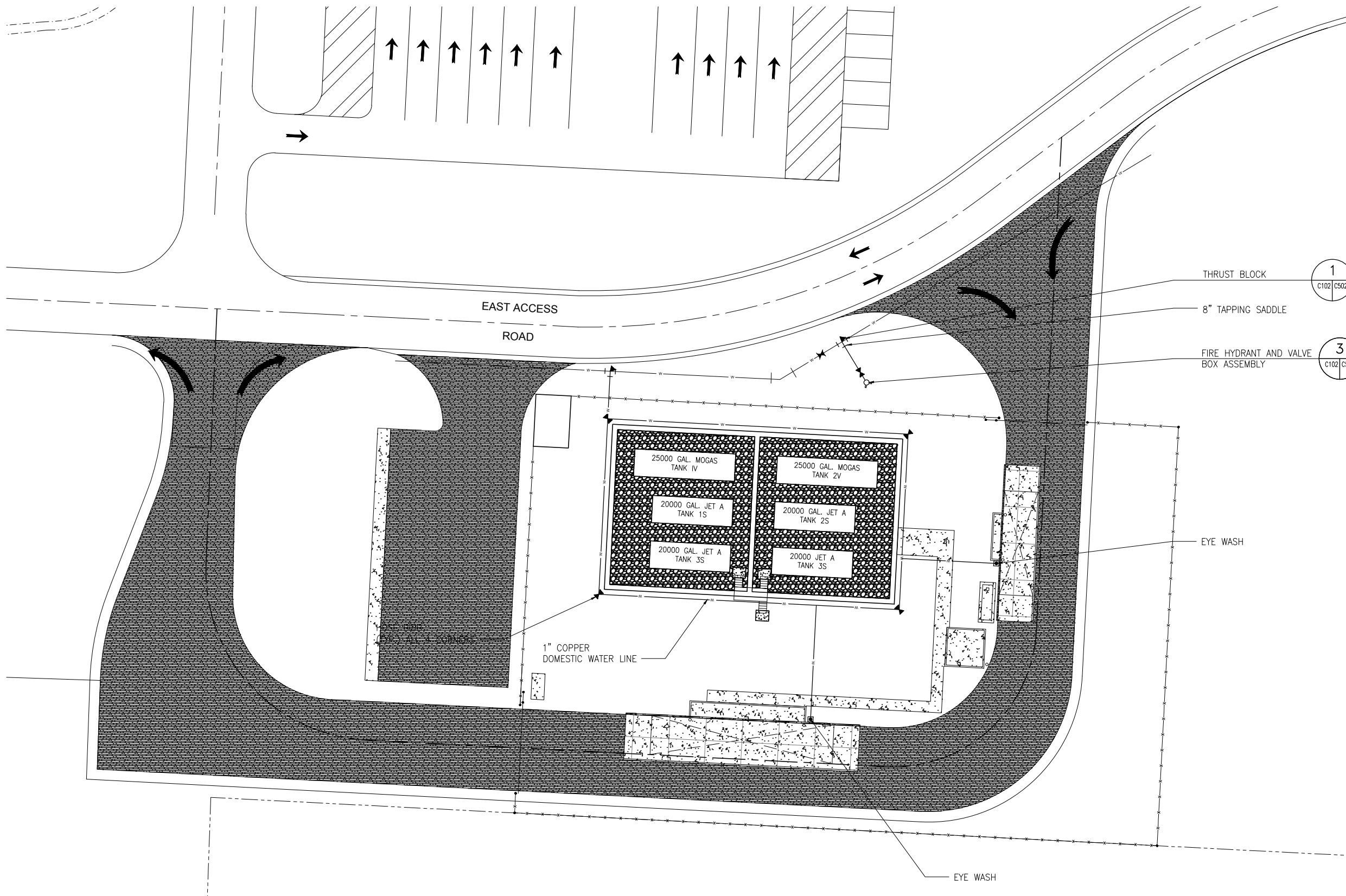
Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
UTILITY PLAN

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: 1"=20'
Drawing Number: C-102



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Technician: SRW	Project Number: 06026.001

Notes:

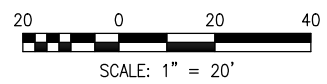
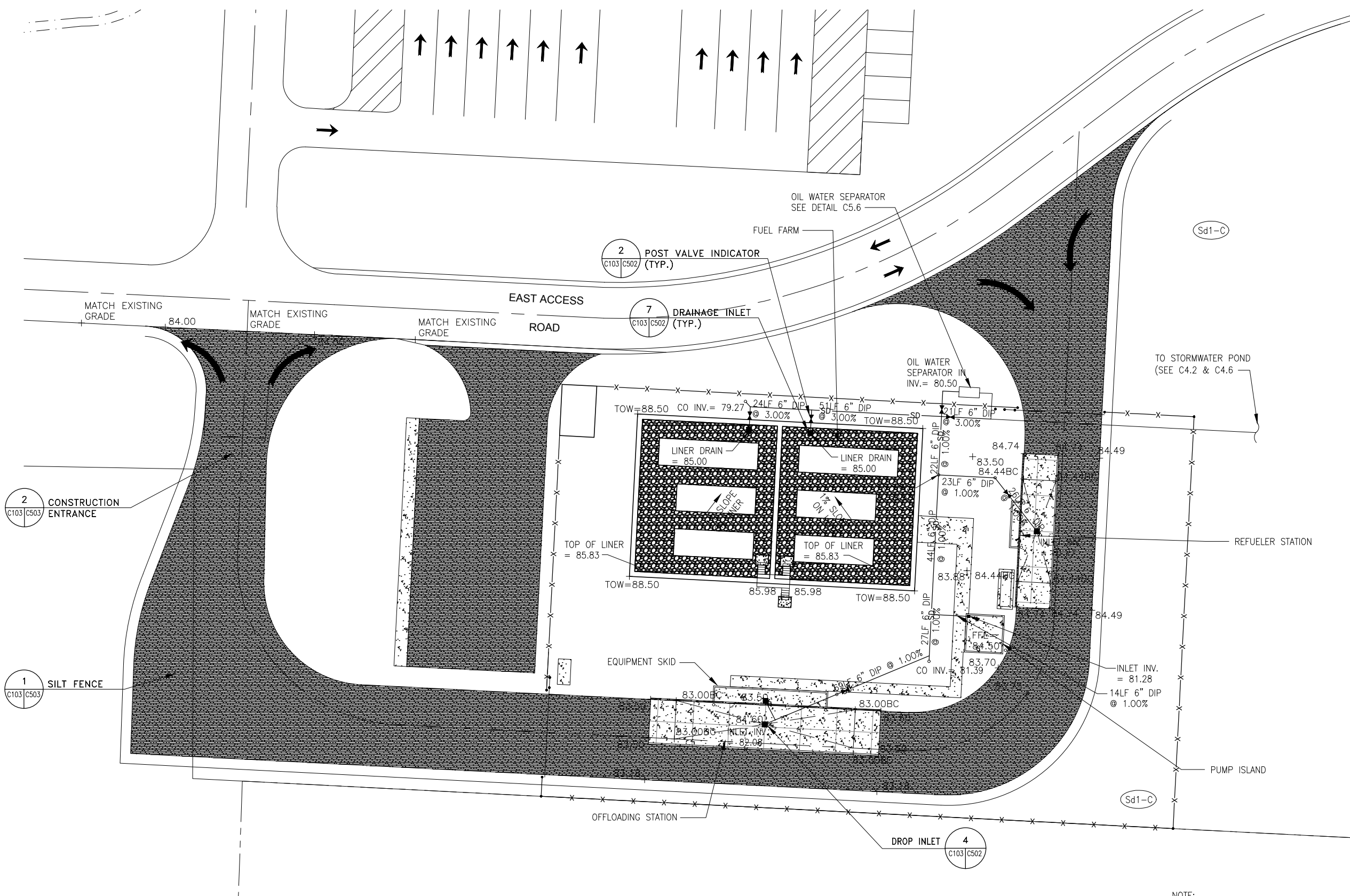
REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
GRADING, DRAINAGE AND EROSION CONTROL PLAN

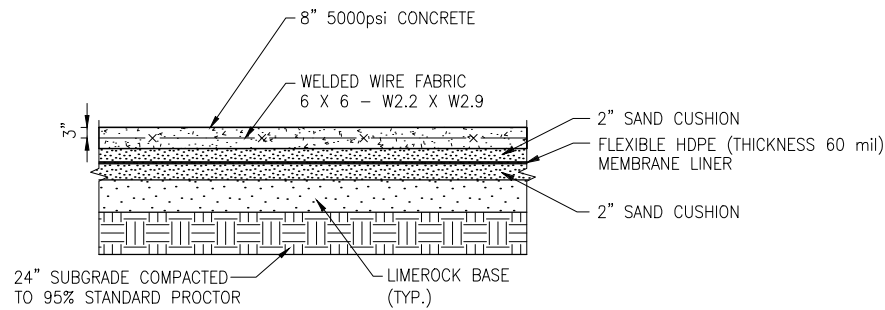
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ENGINEER OF RECORD

Date: 5/15/06
Scale: 1"=20'
Drawing Number: C-103



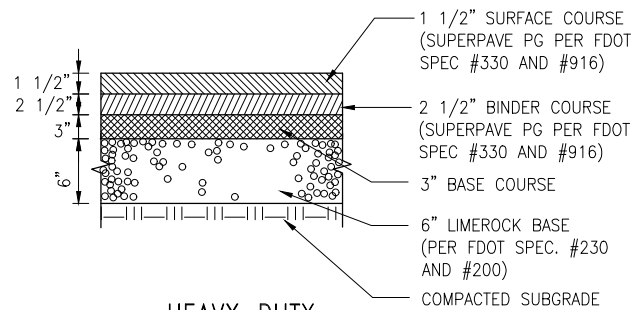
NOTE:
1. SEE DRAWING C4.2 & C4.6 FOR SITE GRADING PLAN

Y: \Marketing\Okaloosa\Fuel Farm\C-103.dwg January 24 2017 15:24



NOTE:
1. STOP REINFORCING 3" FROM JOINTS AND EDGE OF CONCRETE.

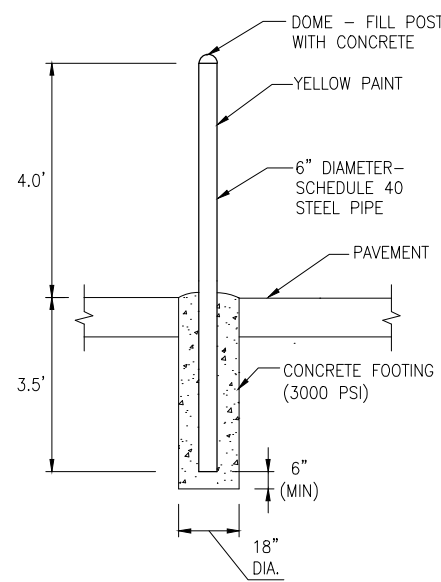
1 CONCRETE PAVEMENT
SCALE: N.T.S.



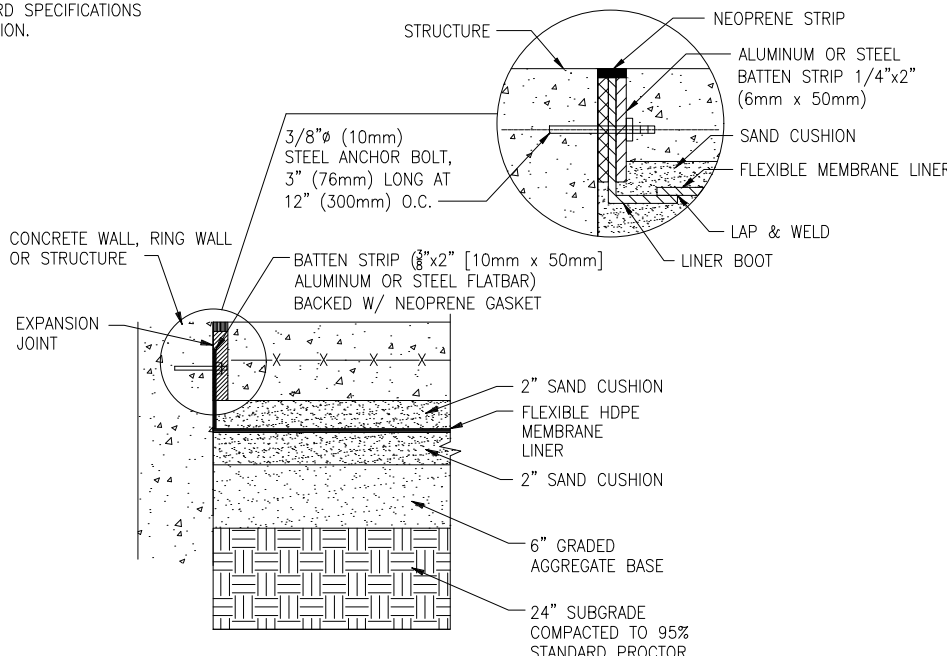
3 HEAVY-DUTY ASPHALT PAVEMENT
SCALE: N.T.S.

ASPHALT PAVEMENT NOTES:

- ALL PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

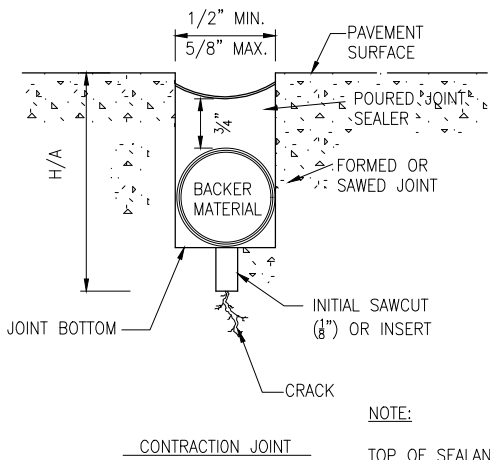


5 BOLLARD
SCALE: N.T.S.

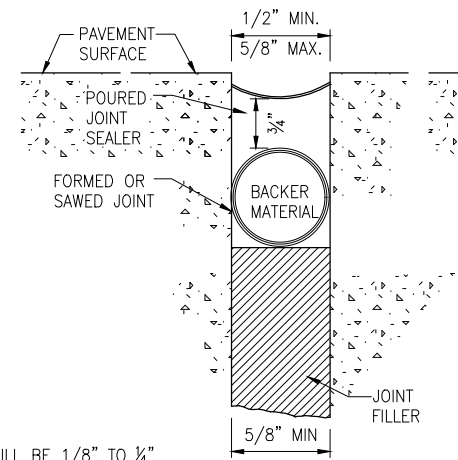


NOTE: DETAIL IS SIMILAR AT THICKENED EDGE MAINTAIN SAND CUSHION UNDER THICKENED EDGE.

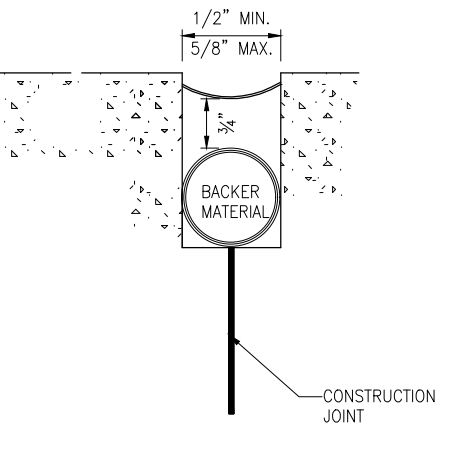
6 LINER CONNECTION-CONCRETE STRUCTURE
SCALE: N.T.S.



NOTE:
TOP OF SEALANT WILL BE 1/8" TO 1/4" BELOW TOP OF PAVEMENT

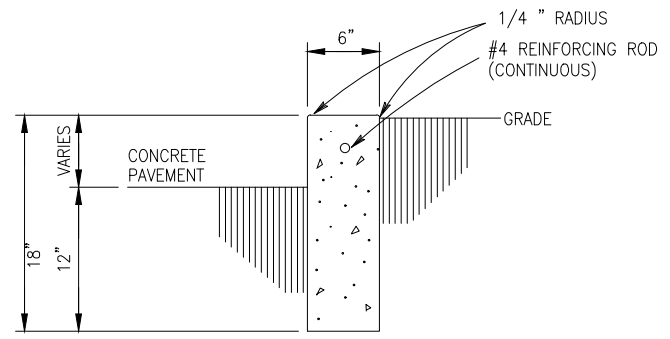


EXPANSION JOINT



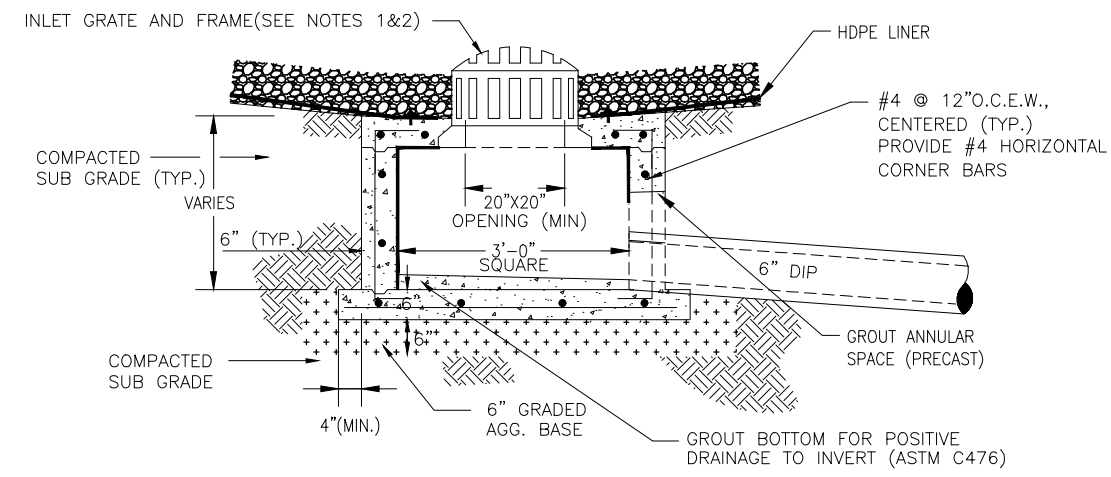
CONSTRUCTION JOINT

2 CONCRETE PAVEMENT JOINTS DETAIL
SCALE: N.T.S.



NOTE: ALL CONCRETE CURBS TO HAVE EXPANSION JOINTS OR SAW CUTS NOT MORE THAN 20'-0" APART

4 HEADER CURB DETAIL
SCALE: N.T.S.



- NOTES:**
- INLET GRATE & FRAME SHALL BE CAST IRON IN-SLAB FRAME WITH BOLTED DOWN COVER (300LB MIN. WEIGHT).
 - GRATING AND TOP SHALL BE SUITABLE FOR HS-20 LOADING.
 - STRUCTURE MAY BE CAST-IN-PLACE OR PRECAST.

7 DRAINAGE INLET
SCALE: N.T.S.



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Designer: TJB	Checked by: LEC
Technician: SRW	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
CONSTRUCTION DETAILS

FAA A.I.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: NOT TO SCALE
Drawing Number: C-501



OKALOOSA REGIONAL AIRPORT (VPS)
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Designer: TJB Checked by: LEC
Technician: SRW Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
UTILITY DETAILS

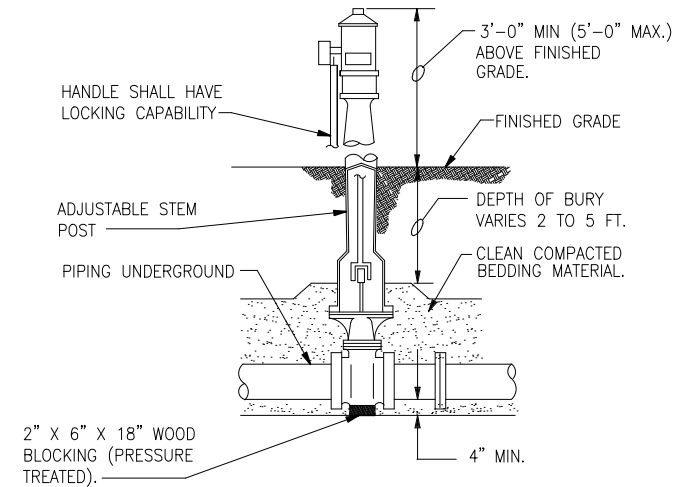
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ENGINEER OF RECORD

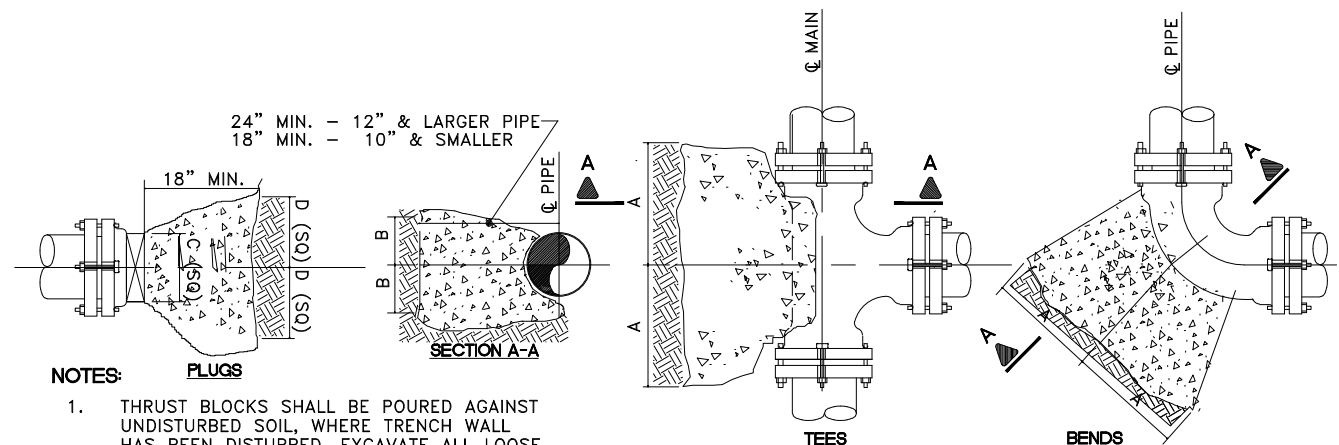
Date:
5/15/06

Scale:
NOT TO SCALE

Drawing Number:
C-502



2 POST VALVE INDICATOR
SCALE: N.T.S.

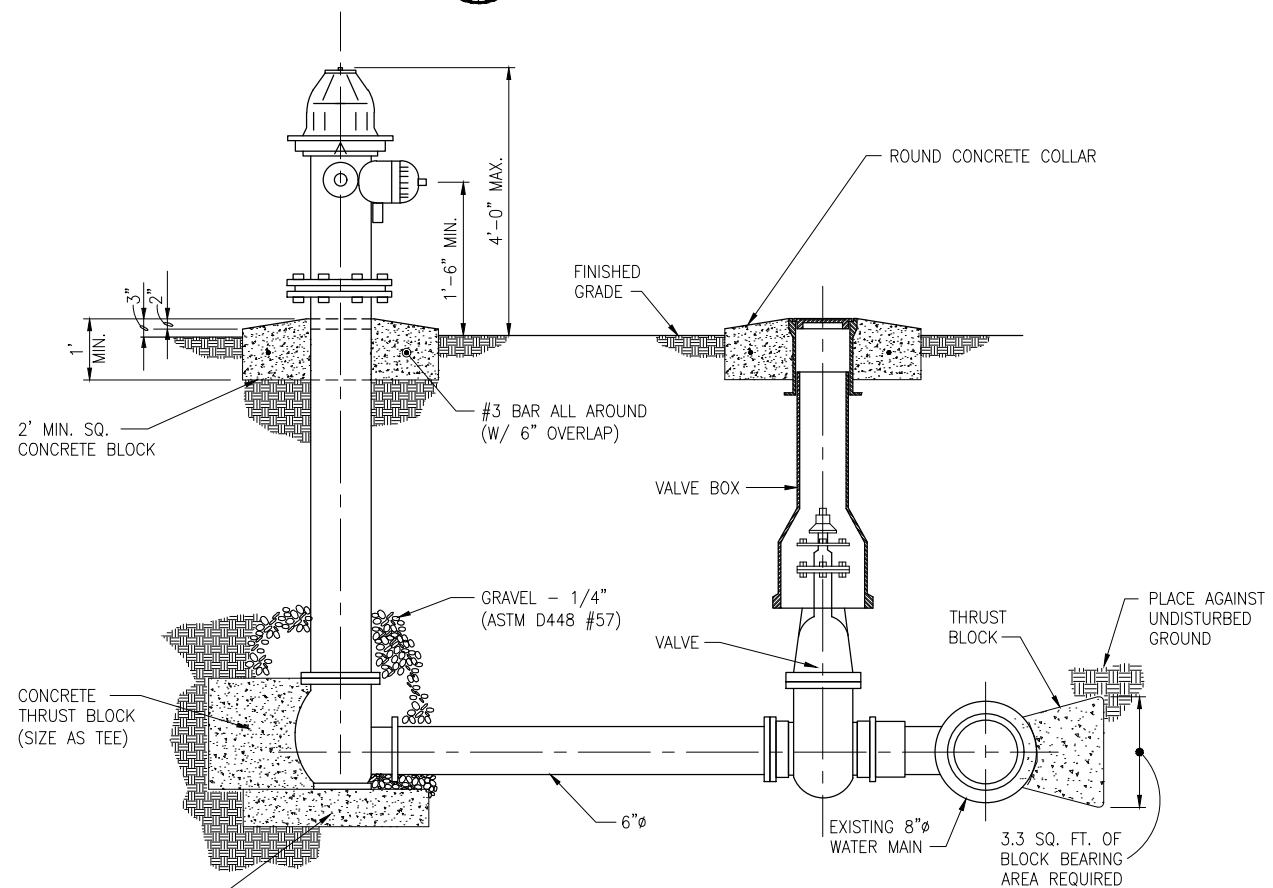


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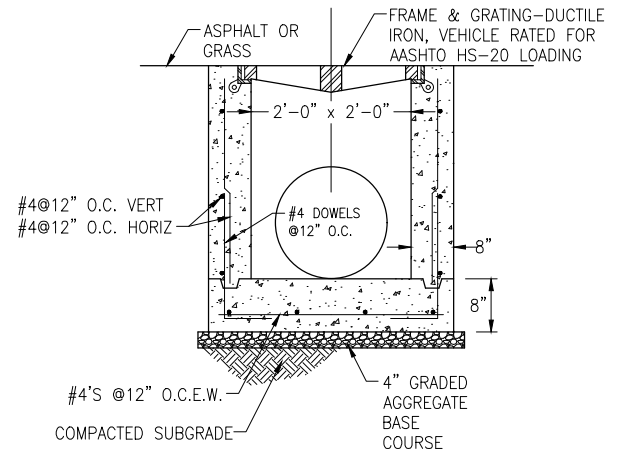
- THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
- IN THE CASE OF FIRE HYDRANTS, WOOD SHEETING AND COMPACTED ROCK BACKING MAY BE OMITTED WHERE SOLID BEARING CAN BE OBTAINED. DO NOT COVER BARREL DRAIN HOLE.
- ON TEES AND BENDS, EXTEND THRUST BLOCK FULL LENGTH. PROVIDE TEATED WOOD BLOCK OF PLUG BEFORE POURING CONCRETE THRUST BLOCK.
- ALL TREATED WOOD BLOCKING SHALL BE CREOSOTED 12 LB. EMPTY CELL PER LATEST REVISION FEDERAL SPEC. TTW-556.
- BACKFILL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH ACCEPTABLE BACKFILL AND COMPACTED TO 90% DRY DENSITY.

TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE I 4000 PSF SOIL	6"	8"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
TYPE II 2000 PSF SOIL	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
	16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
TYPE II 2000 PSF SOIL	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

1 CONCRETE THRUST BLOCKS
SCALE: NOT TO SCALE



3 FIRE HYDRANT AND VALVE BOX ASSEMBLY
SCALE: N.T.S.



4 DROP INLET
SCALE: N.T.S.

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OKALOOSA COUNTY, FLORIDA

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Designer: WPH	Checked by: JUS
Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
STRUCTURAL PLANS & DETAILS

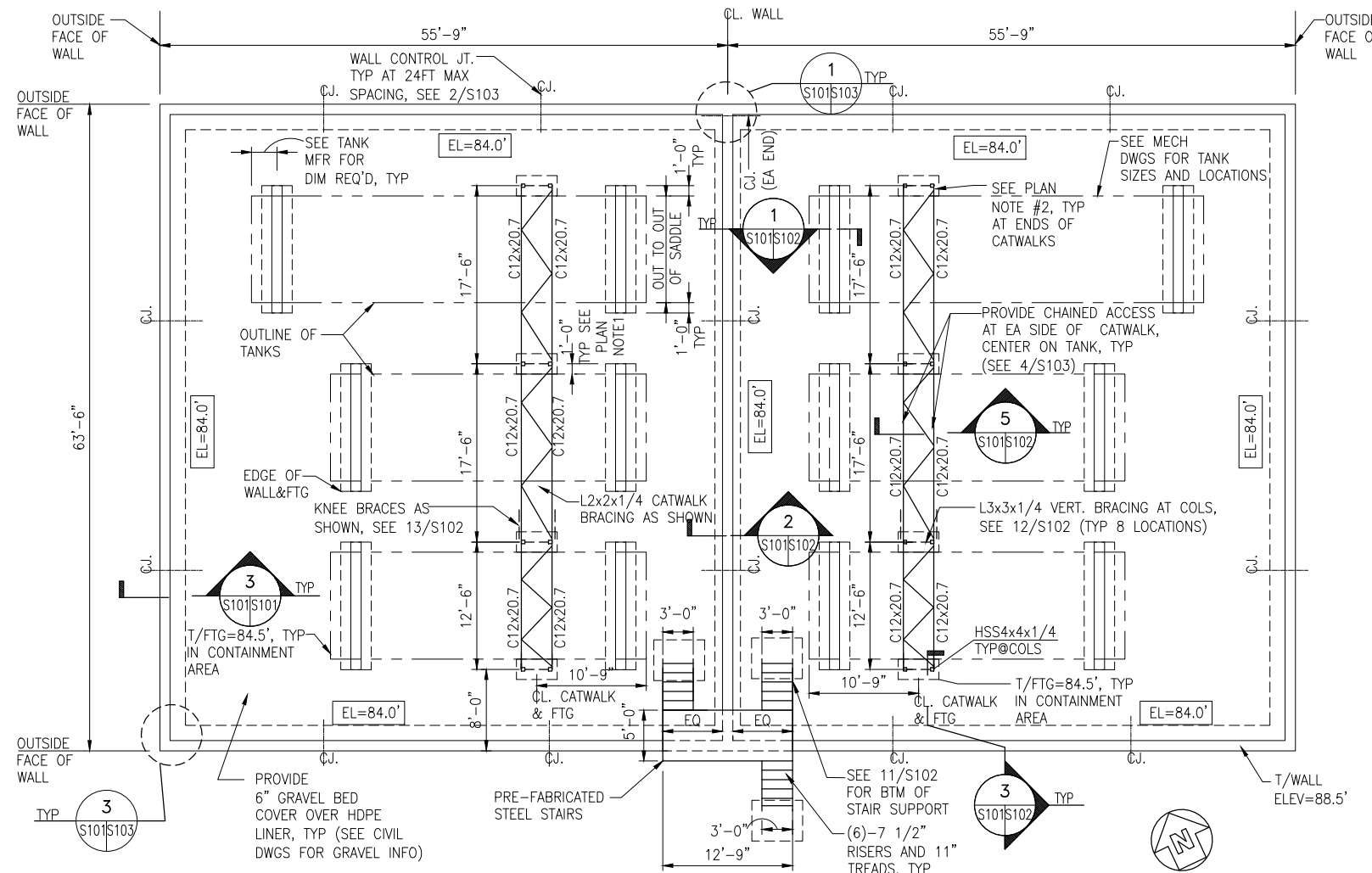
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ENGINEER OF RECORD

Date:	5/15/06
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Drawing Number:	S-101

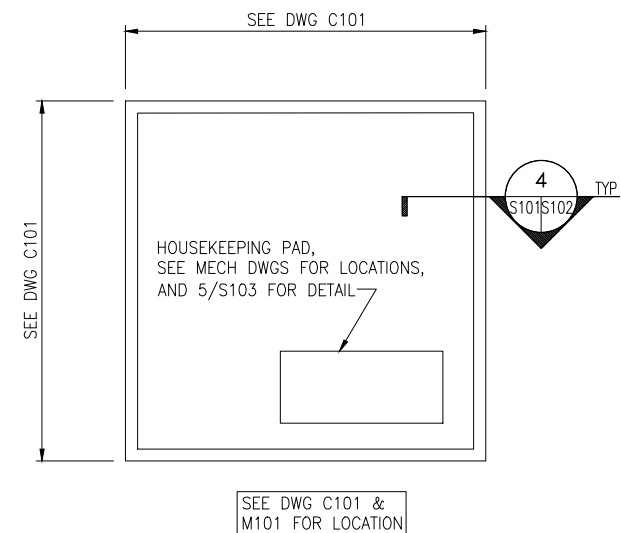
GENERAL NOTES:

- CONTRACTOR SHALL VERIFY THAT NO UNDERGROUND UTILITIES OR OBSTRUCTIONS EXIST IN THE VICINITY OF THE FOUNDATIONS. IF ANY OBSTRUCTIONS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD PRIOR TO COMMENCING EXCAVATION ACTIVITIES.
- A. DESIGN CRITERIA**
- DESIGN IS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2004 EDITION WITH 2005 AMENDMENTS.
 - WIND DESIGN CRITERIA:
EXPOSURE CATEGORY C
BASIC WIND SPEED 140 mph
IMPORTANCE FACTOR, I 1.0
BUILDING CATEGORY II
- B. FOUNDATION**
- FOUNDATIONS FOR THE STRUCTURES ARE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT #05-1504, DATE DEC 13, 2005 PREPARED BY MORRIS AND ALLEN ASSOC.
 - FOUNDATIONS ARE SIZED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2500PSF PER THE ABOVE REFERENCED GEOTECHNICAL REPORT. CONSULT REPORT FOR EXCAVATION AND COMPACTION REQUIREMENTS TO ENSURE THE STATED ALLOWABLE BEARING CAPACITY.
 - HDPE MEMBRANE REQUIRED OVER ENTIRE CONTAINMENT AREA. SEE CIVIL DWGS FOR INFORMATION.
- C. CONCRETE:**
- CLASSES OF CONCRETE:
- | CLASS | 28 DAY STRENGTH (PSI) | MAX W/C RATIO | SLUMP | AIR CONTENT | LOCATION | REMARKS |
|-------|-----------------------|---------------|-------|-------------|--------------------|------------|
| A | 4000 | 0.45 | 2"-4" | 2-4% | SLAB & FOUNDATIONS | NORMAL WT. |
- COMPLY WITH ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE", TESTS TO SHALL BE ACCORDING TO ASTM C39 FOR COMPRESSIVE STRENGTH.
 - PORTLAND CEMENT TO COMPLY WITH ASTM C150 TYPE I OR 2.
 - NORMAL WEIGHT AGGREGATE TO COMPLY WITH ASTM C33
 - WATER TO COMPLY WITH ASTM C94 AND POTABLE.
 - COMPLY WITH ACI 340R FOR MIXING, TRANSPORTING, AND PLACEMENT OF CONCRETE. DO NOT ADD WATER TO CONCRETE DURING DELIVERY OR AT SITE.
- D. CONCRETE REINFORCEMENT:**
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, OF DOMESTIC MANUFACTURER.
 - REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318.
 - REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.
 - ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR BOLTS AND WELD PLATES SHALL BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
 - NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED.
 - PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN.
 - TENSION AND COMPRESSION REINFORCEMENT SPLICES SHALL BE MADE AS FOLLOWS:
#4 BARS 28 INCHES
#5 BARS 35 INCHES
#6 BARS 46 INCHES
#7 BARS 63 INCHES
- B. STRUCTURAL STEEL NOTES:**
- STRUCTURAL STEEL FOR THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE SECOND EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION, LOAD & RESISTANCE FACTOR DESIGN".
 - NEW STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
A. STRUCTURAL STEEL SHAPES, PLATES AND BARS - ASTM A 36, Fy = 36 ksi
B. BOLTS - ASTM A 325 (3/4" DIAMETER), BEARING TYPE CONN, THREADS EXCLUDED
C. STRUCTURAL STEEL TUBING - ASTM A 500, GRADE B, Fy = 46 ksi
 - WELDING - ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE FABRICATOR OR ERECTOR ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING. PROVIDE 3/16" CONTINUOUS FILLET U.N.O.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
 - FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 - ALL EXPOSED STEEL TO BE GALVANIZED. APPLY TOUCH UP GALVANIZE PAINT AS REQUIRED AFTER ERECTION.

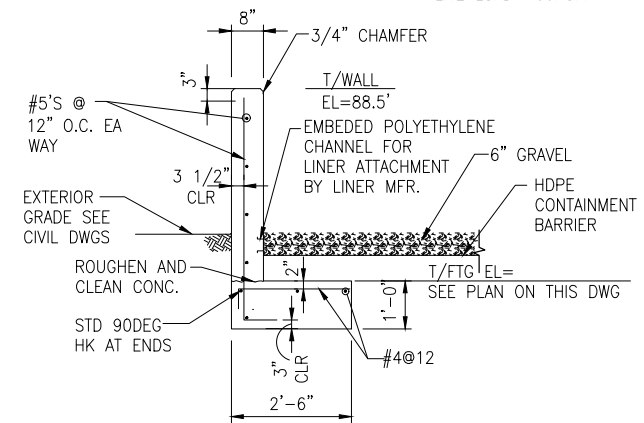


1 PLAN
SCALE: 1/8"=1'-0"

- PLAN NOTES:**
- CONTRACTOR VERIFY EXACT TANK PLACEMENTS PRIOR TO INSTALLING FOOTINGS FOR COLUMNS. COORDINATE WITH STEEL MFR. IF ADJUSTMENTS TO CATWALK SECTION LENGTHS ARE REQUIRED.
 - PROVIDE VERTICAL STEEL LADDER OR SHIP'S LADDER ATTACHED B/W HSS COL'S AT EACH END OF CATWALKS. (LADDERS NOT SHOWN) BOLT L3x3x1/4 ANGLES B/W COLS FOR LADDER ATTACHMENT AS REQ'D. LADDERS TO BE MANUFACTURED BY PRECISION LADDERS OR EQUIVALENT.
 - CATWALK SHALL CLEAR TOP OF TANKS BY 1'-0" MINIMUM. CONTRACTOR TO COORDINATE ACTUAL ELEVATION OF CATWALK WITH ELEVATION OF TANK AS DETERMINED BY THE OWNER. CATWALK LIVE LOAD=100PSF.

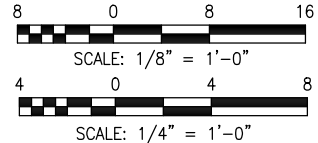


2 PLAN AT PUMP ISLAND
SCALE: 1/4"=1'-0"



3 SECTION
SCALE: NTS

LEGEND
84.0' = TOP OF FTG ELEVATION





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OKALOOSA COUNTY, FLORIDA

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Designer: WPH
Checked by: JJS
Technician: S101/S102
Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
SECTIONS AND DETAILS

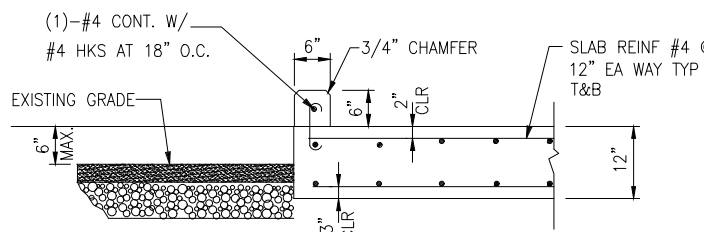
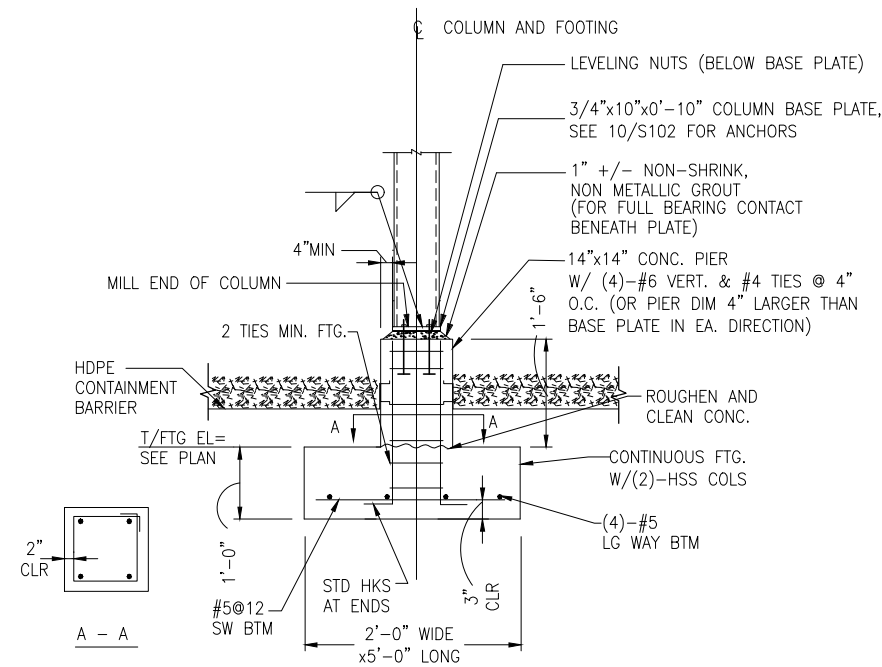
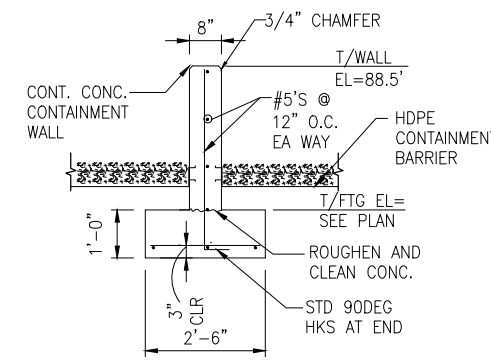
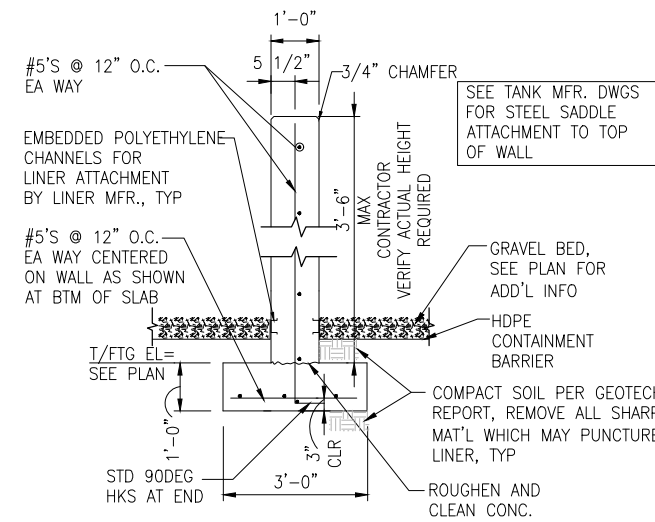
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ENGINEER OF RECORD

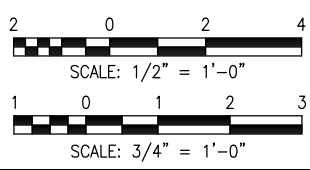
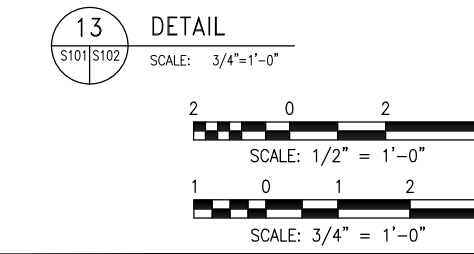
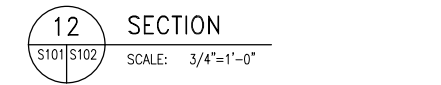
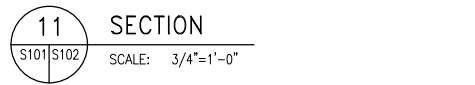
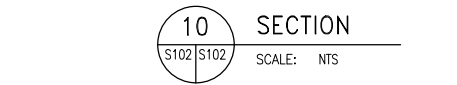
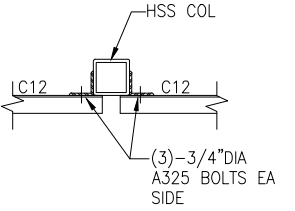
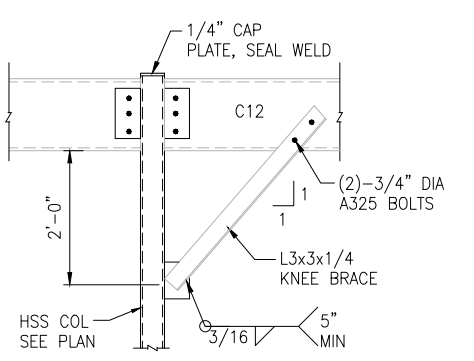
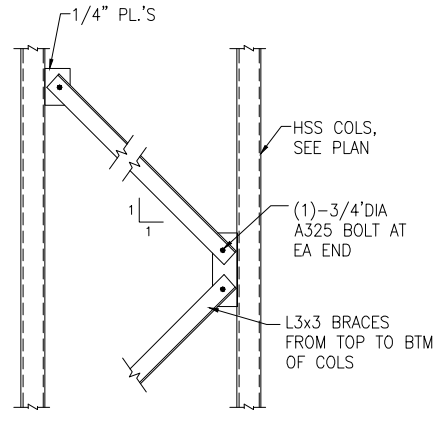
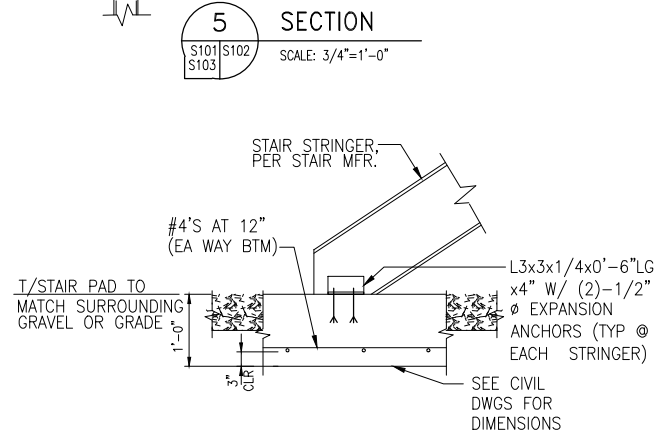
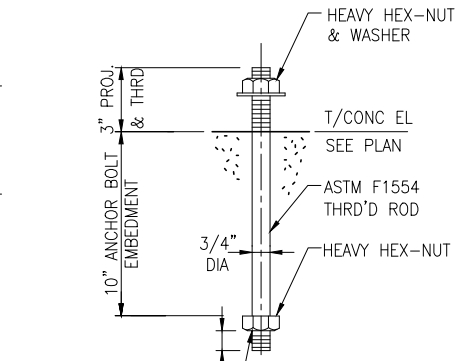
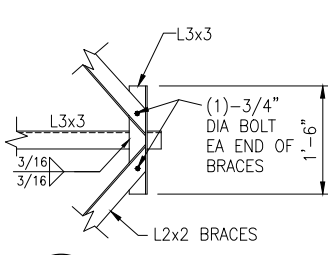
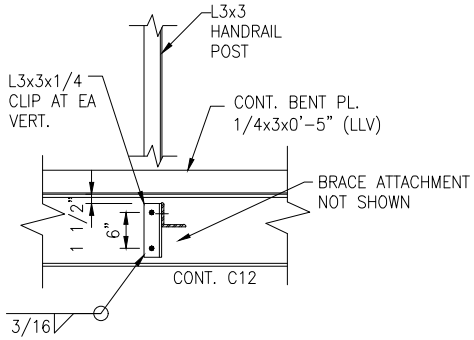
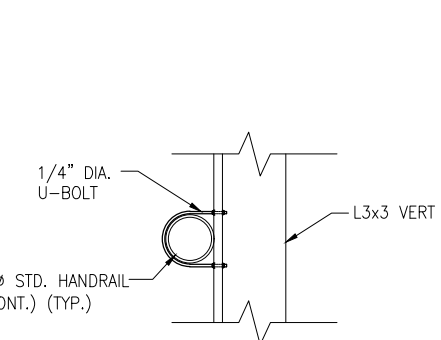
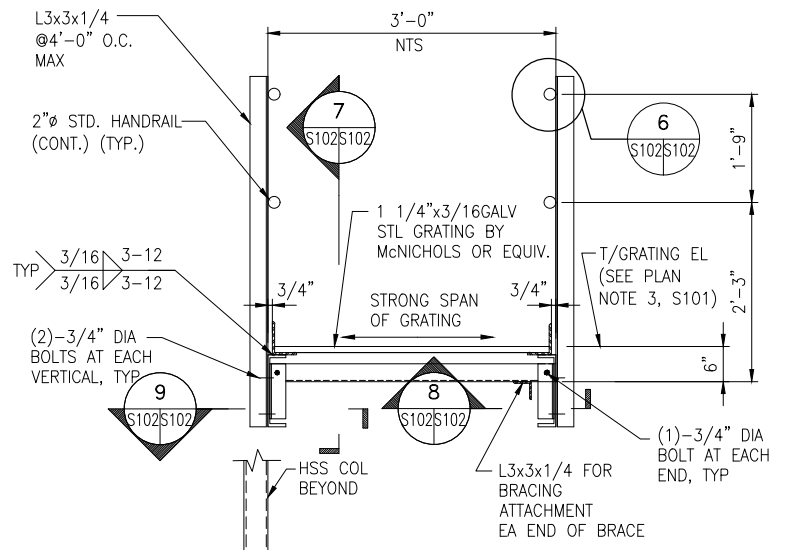
Date:
5/15/06

Scale:
NTS

Drawing Number:
S-102



- NOTE:
- ATTACHMENT OF PUMPS TO SLAB SHALL BE THE RESPONSIBILITY OF THE TRADE CONTRACTOR.
 - SEE CERTIFIED VENDOR DWGS FOR EQUIPMENT SIZES AND FOR ANCHORAGE DETAILS.
 - THE FINAL SUB-GRADE SHALL BE ABLE TO SUPPORT A UNIFORM LOAD OF NO LESS THAN 2000 PSF BENEATH THE ENTIRE SUPPORT PAD AREA.



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OKALOOSA REGIONAL AIRPORT
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Designer: WPH	Checked by: JJS
Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
**TYPICAL
DETAILS**

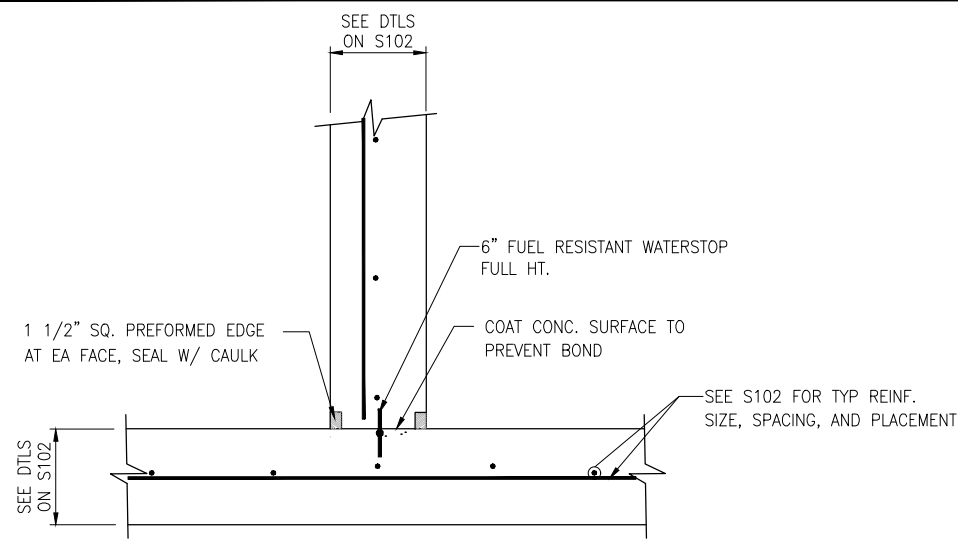
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ENGINEER OF RECORD

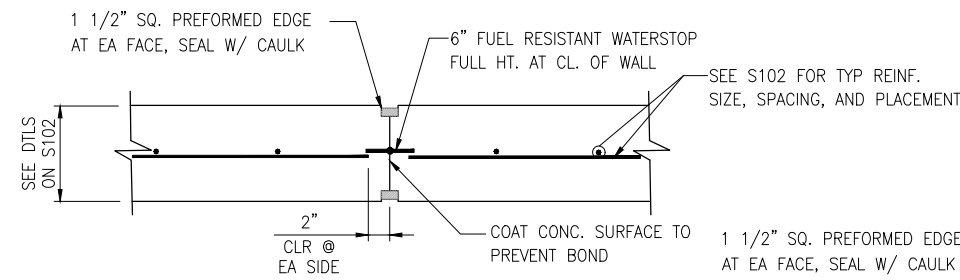
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Drawing Number:
S-103

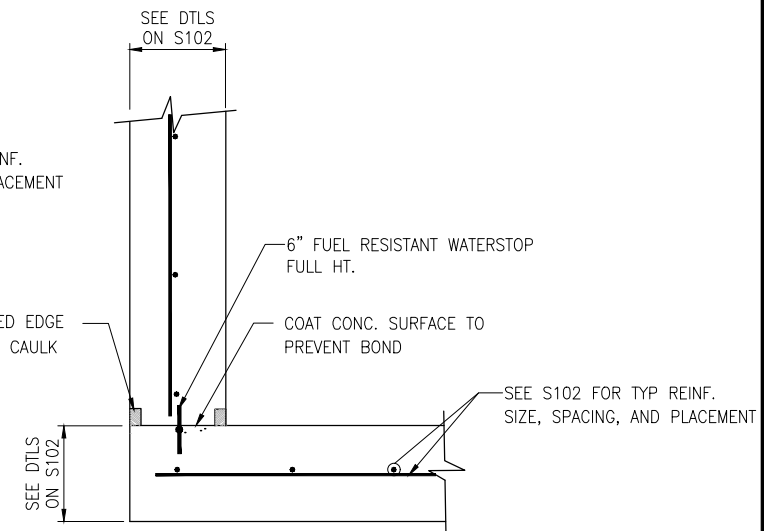


1 WALL INTERSECTION DETAIL
S101|S103 SCALE: NTS

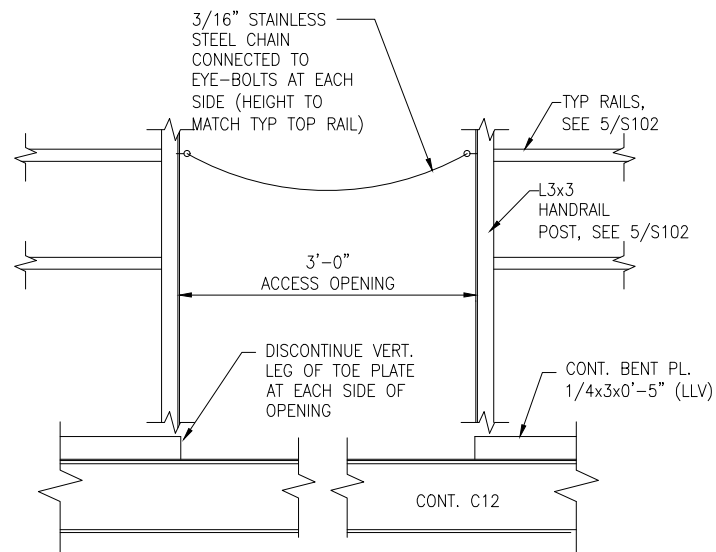


THIS DTL MAY ALSO BE USED FOR WALL CONSTRUCTION JT.

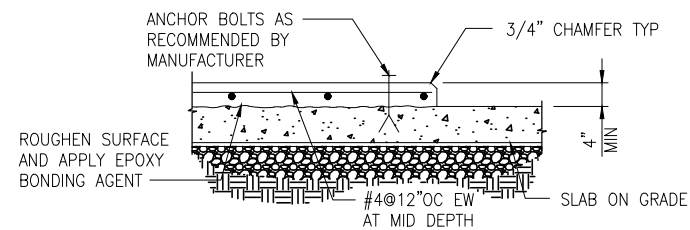
2 TYP WALL CONTROL JT. DETAIL
S101|S103 SCALE: NTS



3 WALL CORNER DTL
S101|S103 SCALE: NTS



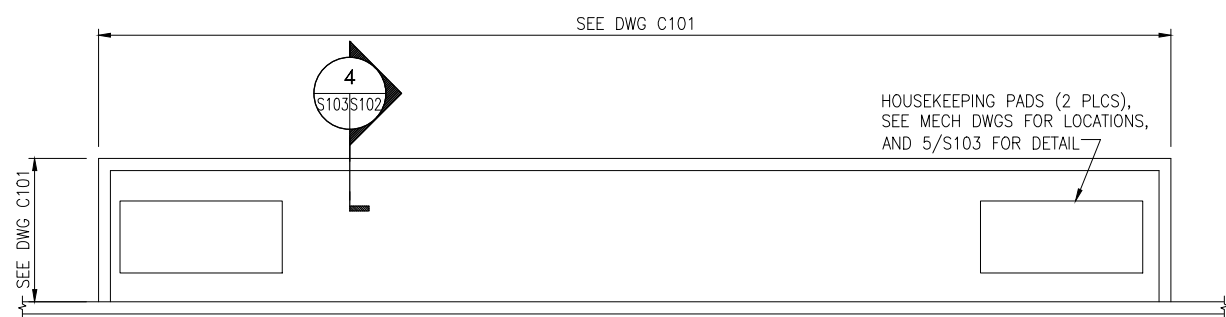
4 CHAINED ACCESS
S101|S103 SCALE: 3/4"=1'-0"



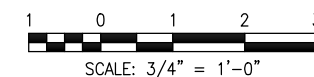
EQUIPMENT PAD

- SEE CERTIFIED VENDOR DWGS FOR PAD SIZES AND ANCHORAGE DETAILS. VERIFY PAD SIZES WITH CERTIFIED VENDOR DWGS.

5 EQUIPMENT PAD DTL
S101|S103|S103 SCALE: NTS



6 PUMP PAD PLAN AT OFFLOADING STATION
S103|S103 SCALE: NTS



ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	IN	INCHES
AE	AIR ELIMINATOR	kW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LCV	LOADING CONTROL VALVE
A/G	ABOVEGROUND	LSH	LEVEL SWITCH HIGH
AGG	AGGREGATE	LSHH	LEVEL SWITCH HIGH-HIGH
API	AMERICAN PETROLEUM INSTITUTE	LSL	LEVEL SWITCH LOW
ARCH	ARCHITECTURAL	LI	LEVEL INDICATOR (ATG)
ASTM	AMERICAN STANDARDS FOR TESTING AND MATERIALS	LPD	LOW POINT DRAIN
AST	ABOVEGROUND STORAGE TANK	LSCV	LOADING STATION CONTROL VALVE
ATG	AUTOMATIC TANK GAUGING	MAV	MANUAL AIR VENT
AWS	AMERICAN WELDING STANDARDS	MAX	MAXIMUM
AUX	AUXILIARY	MECH	MECHANICAL
B/G	BELOW GRADE	MFR	MANUFACTURER
BBL	BARRELS	MIN	MINIMUM
¢	CENTER LINE	MIN	NORTHING
CLR	CLEAR	NC	NORMALLY CLOSED
CMP	CORRUGATED METAL PIPE	NIC	NOT IN CONTRACT
CO	CLEANOUT	NO	NORMALLY OPEN
COMM	COMMUNICATIONS	NPT	NATIONAL PIPE THREAD
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	O/C	ON CENTER
CS	CARBON STEEL (LINED)	OCV	OFF-LOADING CONTROL VALVE
CONT	CONTINUATION	OD	OUTER DIAMETER
CW	CLOCKWISE	OD	OPERATIONS
CV	CONTROL VALVE	OPC	PUMP CONTROL PANEL
DB	DRY BULB TEMPERATURE	PCV	PRESSURE CONTROL VALVE
DBL	DOUBLE	PDM	POSITIVE DISPLACEMENT METER
DEG	DEGREE	PIT	PRESSURE INDICATING TRANSMITTER
DIA	DIAMETER	PRESS	PRESSURE
DP	DIFFERENTIAL PRESSURE	PRV	PRESSURE RELIEVE VALVE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PDCV	PUMP DISCHARGE CONTROL VALVE
DN	DOWN	PRCV	PRESSURE REDUCING CONTROL VALVE
E.	EASTING	PRT	PRODUCT RECOVERY TANK
ECC	ECCENTRIC	RED	REDUCER
ELEV	ELEVATION	RF	RAISED FACE
EL	ELBOW	SM	SIMILAR
EW	EACH WAY	SS	STAINLESS STEEL
EX	EXISTING	STD	STANDARD
F	FAHRENHEIT	STL	STEEL
F/S	FILTER SEPARATOR	TFV	TRUCK FILL VALVE
FOT	FLAT ON TOP	TRV	THERMAL RELIEF VALVE
FS	FLOW SWITCH	TYP	TYPICAL
FSCV	FILTER SEPARATOR CONTROL VALVE	U/G	UNDERGROUND
FTP	FUEL TRANSFER PUMP	VA	VALVE
FP	FUEL PUMP	W/	WITH
FPO	FUEL PUMP OFFLOAD	W/O	WITHOUT
FCV	FLOW CONTROL VALVE	WDP	WATER DRAW-OFF PUMP
FSCV	FILTER SEPARATOR CONTROL VALVE	WT	WEIGHT
GA	GAGE	WWF	WELDED WIRE FABRIC
GC	GENERAL CONTRACTOR	XS	EXTRA STRONG
HP	HORSE POWER		
HPV	HIGH POINT VENT		

LEGEND

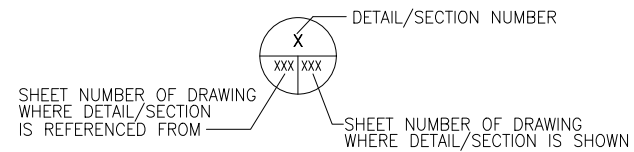
	BALL VALVE
	BALL VALVE, FULL PORT
	BASKET STRAINER
	CHECK VALVE
	CONTROL VALVE
	ANGLE PATTERN CONTROL VALVE
	GLOBE THROTTLING VALVE
	PLUG VALVE, DOUBLE BLOCK AND BLEED
	SHEAR VALVE
	WYE STRAINER
	BUTTERFLY VALVE
	FLOW SWITCH
	ABOVEGROUND PIPE
	UNDERGROUND PIPE
	BLIND FLANGE
	CAP
	QUICK CONNECTOR
	FLEXIBLE CONNECTION
	UNIVERSAL EXPANSION JOINT
	SAMPLE CONNECTION
	INSULATING FLANGE
	SIGHT FLOW INDICATOR
	RELIEF VALVE
	RELIEF VALVE SETTING
	BALL CHECK RELIEF
	LINE SIZE REDUCER
	BASKET STRAINER
	PRESSURE GAUGE
	MANUAL AIR VENT
	LOW POINT DRAIN
	BLEED CONNECTION
	FILTER
	AIRCRAFT ADAPTER
	FUELING HOSE
	SWIVEL JOINT
	90 DEG ELBOW DOWN
	BALL JOINT
	AUTOMATIC TANK GAUGE
	METER
	SOLENOID
	EMERGENCY EYE WASH
	DIFFERENTIAL PRESSURE GAUGE
	CONNECT TO EXISTING

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. NOT ALL COMPONENTS ARE SHOWN IN ALL VIEWS. THE CONTRACTOR SHALL MAKE USE OF THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND INCLUDE ALL COMPONENTS TO CONSTRUCT A FULLY OPERATIONAL FUELING SYSTEM.
2. THE CONTRACTOR SHALL DEVELOP TO SCALE PIPE FABRICATION SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY INSTALLATION. SEE SPEC SECTION 15060 FOR ADDITIONAL REQUIREMENTS.
3. WRITTEN DIMENSIONS ON DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACT SHALL FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
4. THE CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
5. AT START OF CONSTRUCTION, THE CONTRACTOR AND EACH OF HIS SUBCONTRACTORS SHALL PREPARE TYPED LISTS OF ALL EQUIPMENT THAT THEY ARE SUPPLYING WHICH REQUIRE ELECTRICAL WORK, AND SEND LISTS TO THE ELECTRICAL CONTRACTOR FOR HIS REVIEW AND COORDINATION.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
7. INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT.

SCOPE:

THE MECHANICAL SCOPE INCLUDES BUT IS NOT LIMITED TO: INSTALLATION OF NEW UNLEADED & JET-A TANKS, PUMPS, UNLEADED DISPENSERS, FILL STAND/LOADING STATION, OFF-LOADING STATION AND ALL ASSOCIATED APPURTENANCES.



DETAIL/SECTION IDENTIFICATION

SHEET NUMBERS OMITTED IF SECTION IS CUT AND DETAILED ON SAME DRAWING.

PUMP SCHEDULE

DESIGNATION	SERVES	TYPE	SERVICE	FLOW GPM	FT. HEAD	MOTOR HP
P-1	OFF-LOADING	SELF PRIMING CENTRIFUGAL	MOGAS	300	60	7.5
P-2	OFF-LOADING	SELF PRIMING CENTRIFUGAL	JET-A	300	101	15
P-3	LOADING	SELF PRIMING CENTRIFUGAL	JET-A	300	192	30
P-4	DISPENSER	SUBMERSIBLE TURBINE PUMP	MOGAS	25	46	3/4
P-5	DISPENSER	SUBMERSIBLE TURBINE PUMP	MOGAS	25	46	3/4
P-6	DIESEL TANK	SUBMERSIBLE TURBINE PUMP	DIESEL	18	10	1/3



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OKALOOSA COUNTY, FLORIDA

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Web www.pondco.com

Designer: BCB	Checked by: JDF
Technician: BCB	Project Number: 06026.001

Notes:

No.	Description	Date	By

REVISIONS

No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
MECH. LEGEND ABBREVIATIONS & GENERAL NOTES

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: M-001



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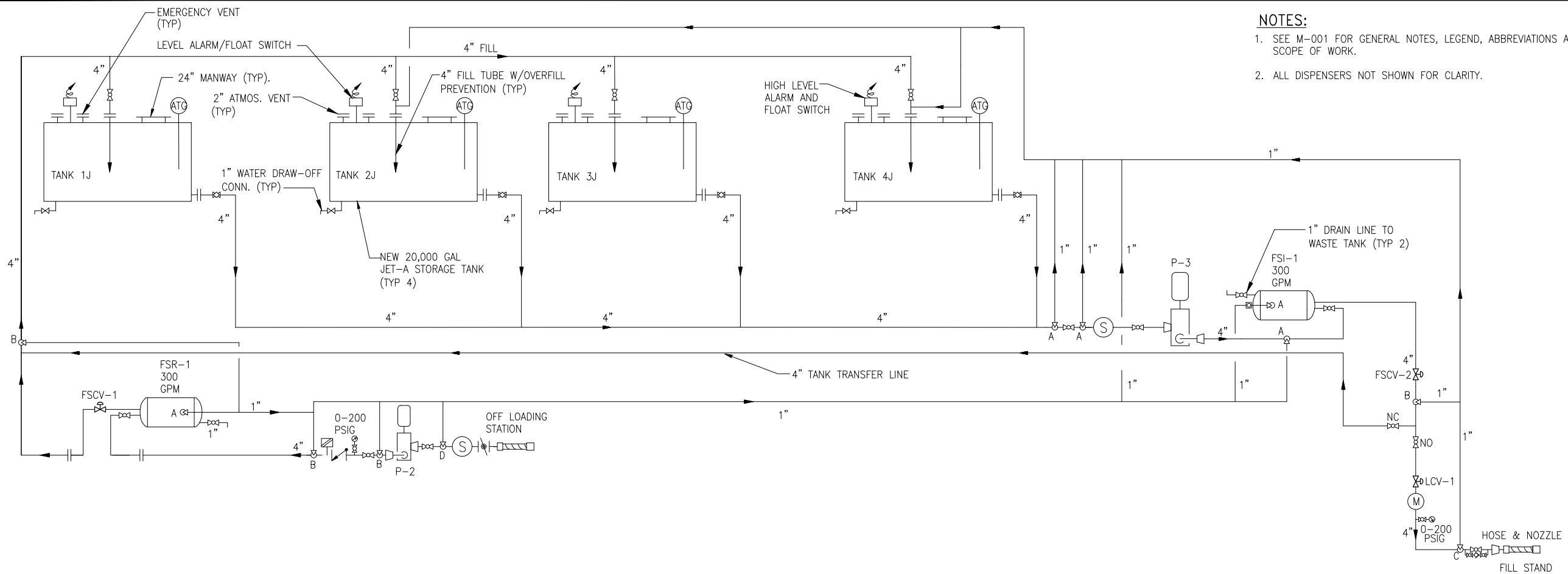
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Designer: BCB Checked by: JDF
Technician: BCB Project Number: 06026.001

Notes:

NOTES:

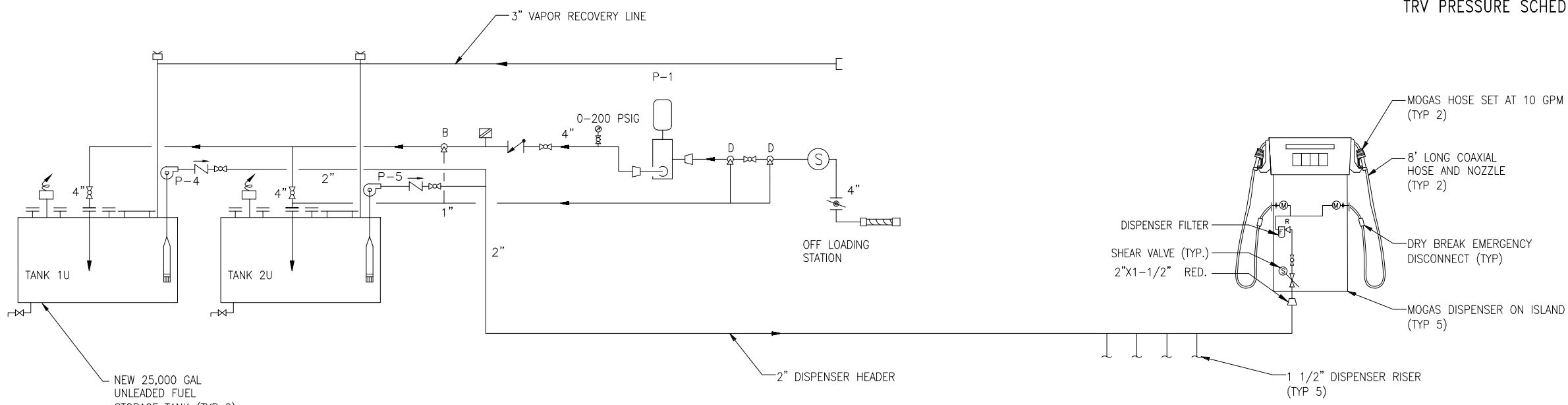
1. SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
2. ALL DISPENSERS NOT SHOWN FOR CLARITY.



JET-A FUEL SYSTEM FLOW DIAGRAM

CALL OUT	PRESSURE (PSI)
A	200
B	150
C	140
D	100

TRV PRESSURE SCHEDULE



UNLEADED FUEL (MOGAS) SYSTEM FLOW DIAGRAM

Y:\Marketing\Okaloosa\Fuel Farm\M002.dwg January 24, 2017 - 15:04

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
FUEL FARM FLOW DIAGRAMS

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: **M-002**

DIESEL TANK SPECIFICATION:

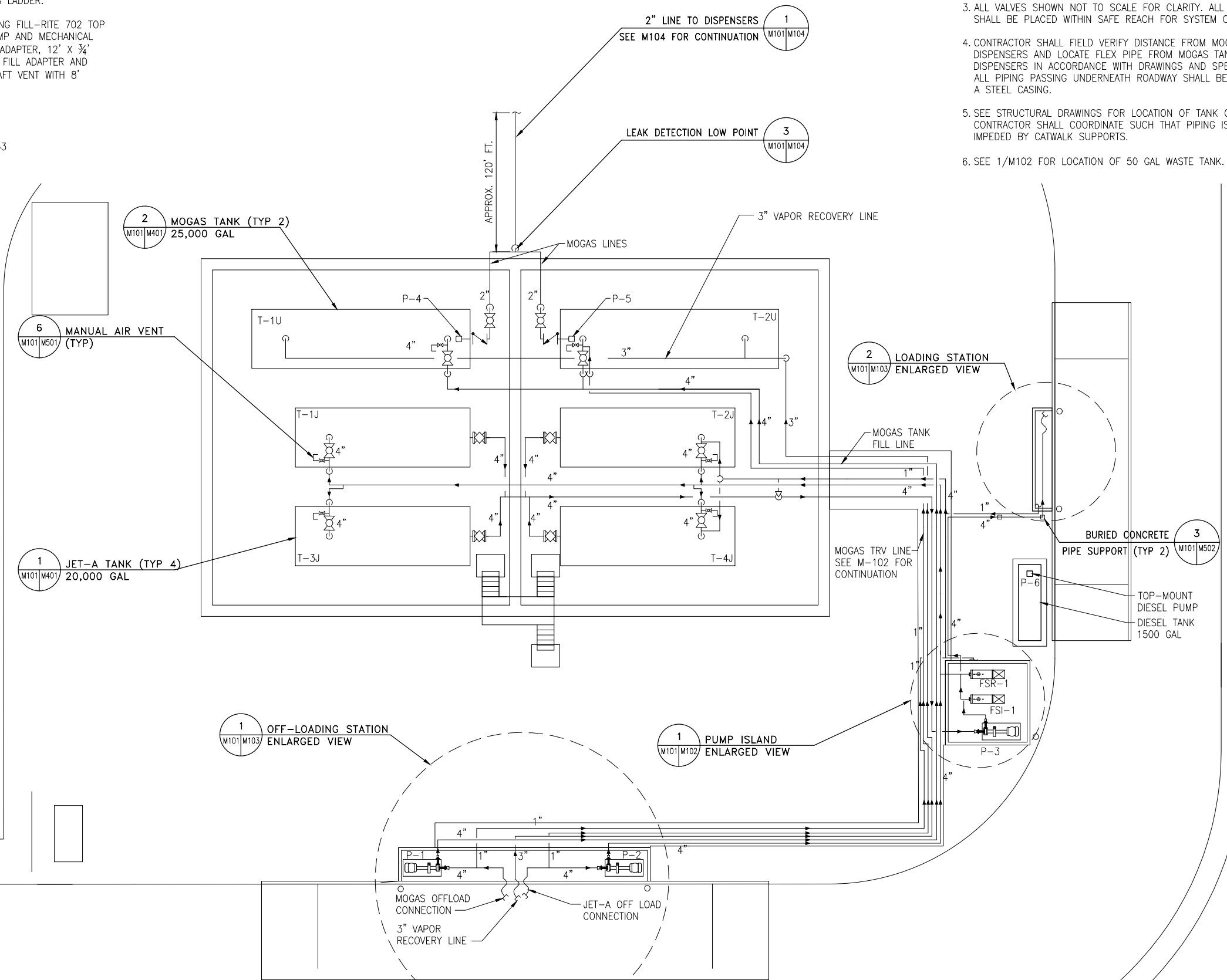
PROVIDE MODERN WELDING 1500 GAL UL-142 DW ULTRA LUBE RECTANGULAR TANK, 13'-6" X 5'-1" 3380# WITH DISPENSER OPTION. 7 GALLON SPILL BOX WITH DRAIN, WHITE EPOXY EXTERIOR PAINTED TO MATCH OTHER TANKS IN TANK FARM. (2) 6" PRIMARY AND SECONDARY EMERGENCY VENTS, (1) KRUEGER LEVEL GAGE, (1) 2" SECONDARY MUSHROOM VENT, (1) ACCESS LADDER.

DISPENSER OPTION SHALL BE MODERN WELDING FILL-RITE 702 TOP MOUNTED DIESEL PACKAGE WITH 18 GPM PUMP AND MECHANICAL METER. 1" SUCTION TUBE, FUEL FILTER AND ADAPTER, 12' X 3/4" HOSE ASSEMBLY AND AUTOMATIC NOZZLE, 4" FILL ADAPTER AND FILL CAP, 4" ALUMINUM FILL TUBE, 2" UPDRAFT VENT WITH 8" RISER.

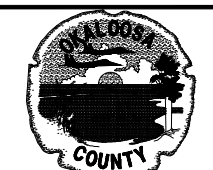
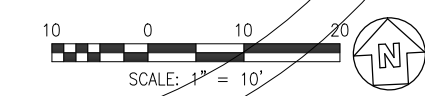
MODERN WELDING
300 PREP PHILLIPS DR. - P.O. BOX 10067
AUGUSTA, GEORGIA 30903
PH: (706) 722-3411 - FAX (706) 724-8133
EMAIL: modern14@modweldco.com

NOTES:

1. SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
2. CONTRACTOR SHALL FIELD LOCATE PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION 15060 AND DETAILS 1 AND 3 ON M-502.
3. ALL VALVES SHOWN NOT TO SCALE FOR CLARITY. ALL VALVES SHALL BE PLACED WITHIN SAFE REACH FOR SYSTEM OPERATION.
4. CONTRACTOR SHALL FIELD VERIFY DISTANCE FROM MOGAS TANKS TO DISPENSERS AND LOCATE FLEX PIPE FROM MOGAS TANKS TO DISPENSERS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. ALL PIPING PASSING UNDERNEATH ROADWAY SHALL BE INSTALLED IN A STEEL CASING.
5. SEE STRUCTURAL DRAWINGS FOR LOCATION OF TANK CATWALKS. CONTRACTOR SHALL COORDINATE SUCH THAT PIPING IS NOT IMPEDED BY CATWALK SUPPORTS.
6. SEE 1/M102 FOR LOCATION OF 50 GAL WASTE TANK.



MECHANICAL SITE PLAN
SCALE: 1"=10'



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Designer: BCB	Checked by: JDF
Technician: BCB	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

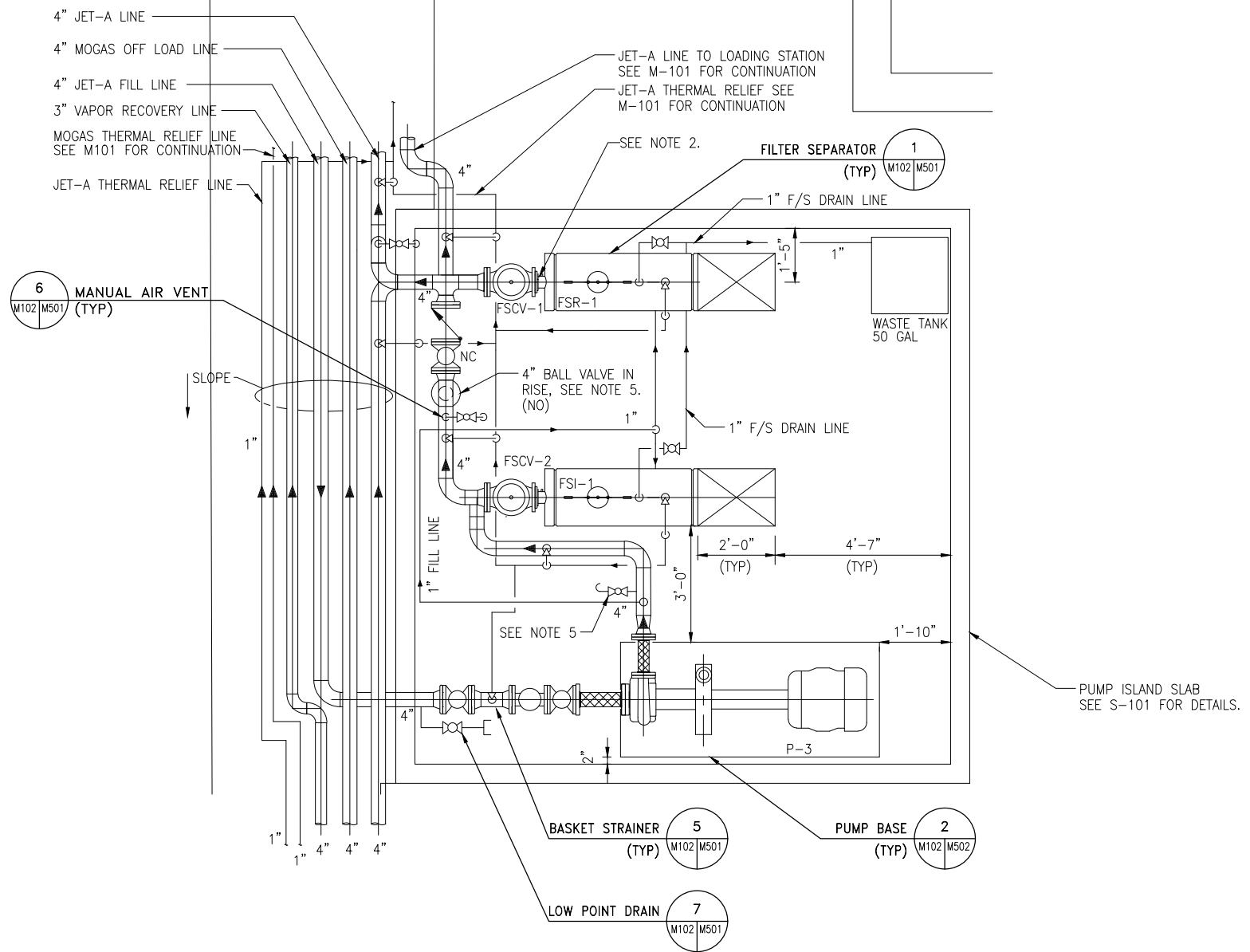
Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
MECHANICAL SITE PLAN

FAA A.J.P. PROJECT NUMBER:
ENGINEER OF RECORD

Date: 5/15/06
Scale: 1"=10'
Drawing Number: M-101

Y: \Marketing\Okaloosa\Fuel Farm\M102.dwg January 24 2017 - 15:03



NOTES:

1. SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
2. 4" BALL VALVE AT INLET OF EACH FILTER SEPARATOR NOT SHOWN FOR CLARITY. SEE 1/M501 FOR DETAIL ON LOCATION OF 4" FILTER SEPARATOR BALL VALVES.
3. F/S DRAIN LINES SHALL BE EMPTIED MANUALLY WHEN FULL. A STAINLESS STEEL CONTAINER CAPABLE OF HOLDING THE ENTIRE VOLUME OF THE DRAINED PRODUCT SHALL BE PROVIDED FOR EACH FILTER SEPARATOR.
4. CONTRACTOR SHALL LOCATE PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION 15060 AND DETAILS 1 AND 3 ON M-502.
5. SAMPLE CONNECTION, SEE DETAIL 4 ON M501.



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Technician: BCB	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

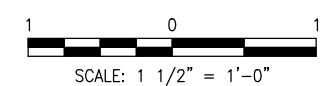
Drawing Name:
PUMP ISLAND ENLARGED PLAN

FAA A.I.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: 1/2" = 1'-0"
Drawing Number: M-102

1 PUMP ISLAND ENLARGED PLAN
SCALE: 1/2"=1'





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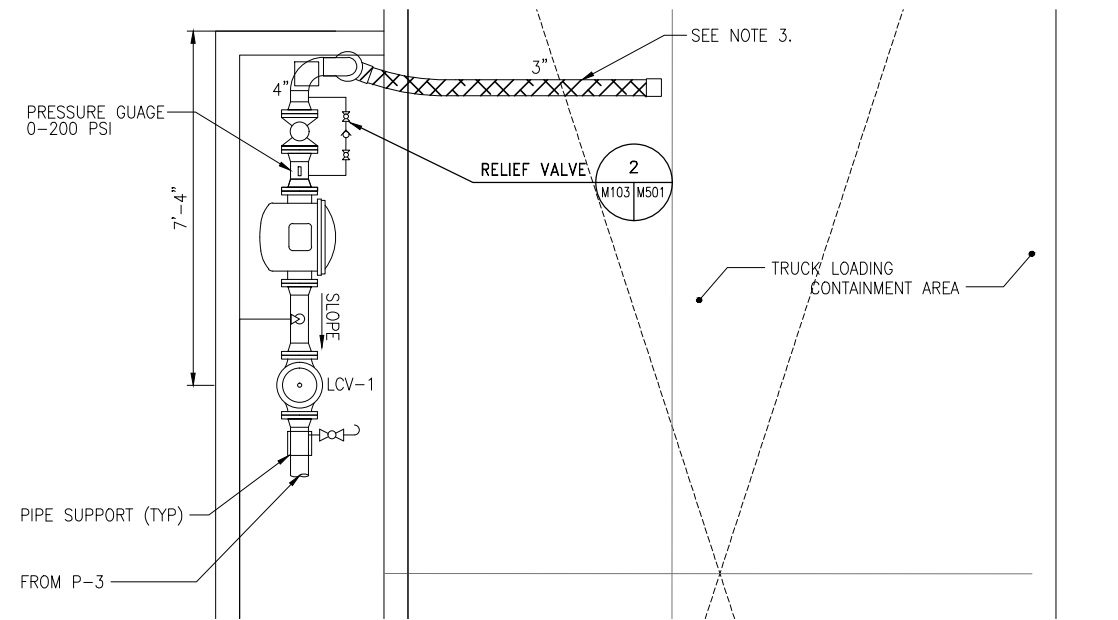
Designer: BCB	Checked by: JDF
Technician: BCB	Project Number: 06026.001

Notes:

NOTES:

- SEE M-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- SEE M-101 FOR PLAN VIEW AND ALL PIPING CONTINUATIONS.
- LOADING STATION SHALL BE PROVIDED WITH LONG ENOUGH HOSE TO ACCOMMODATE TRUCKS RECEIVING FUEL ON EITHER SIDE OF THE VEHICLE. VERIFY LENGTH REQUIRED PRIOR TO PURCHASE.
- CONTRACTOR SHALL FIELD LOCATE PIPE SUPPORTS IN ACCORDANCE WITH SPECIFICATION 15060 AND DETAILS 1 AND 3 ON M-502 UNLESS OTHERWISE SPECIFIED ON DRAWING.

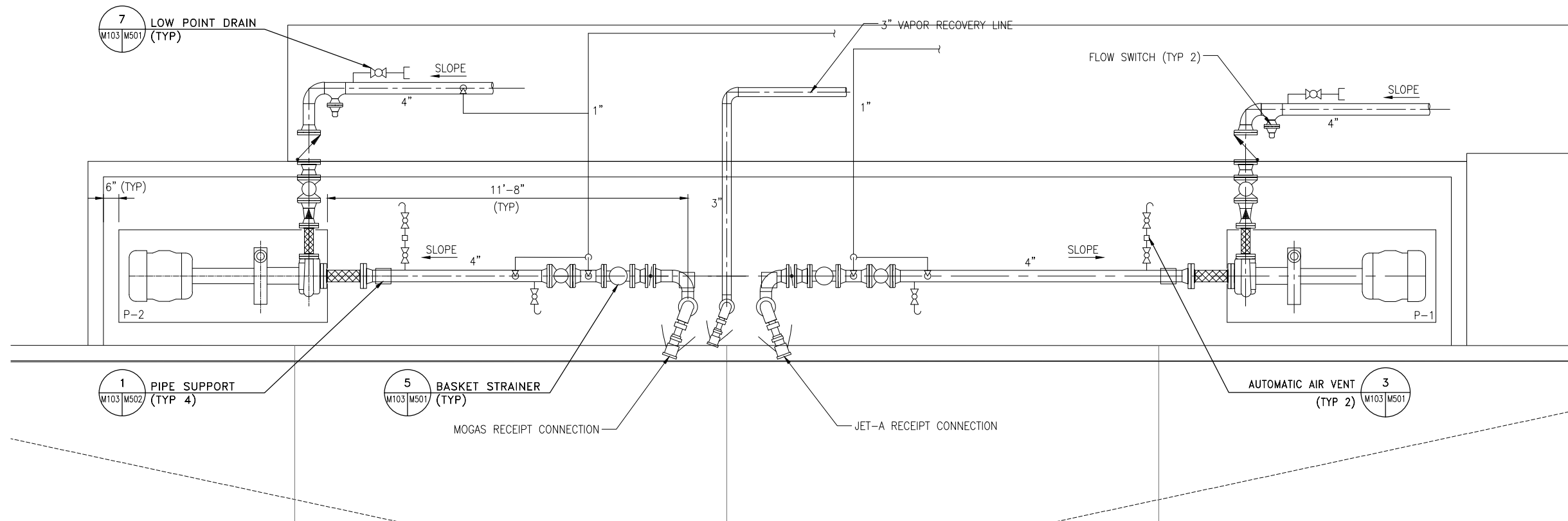
CONTRACTOR SHALL PROVIDE SIGNAGE FOR OFF-LOADING STATION CLEARLY DESIGNATING WHICH PUMP IS USED FOR WHICH FUEL OFF-LOAD PROCESS AS WELL AS ARROWS TO DESIGNATE FLOW DIRECTION IN PIPING. USE API CODES AND SYMBOLS WHERE APPROPRIATE.



2
M101/M103

LOADING STATION ENLARGED VIEW

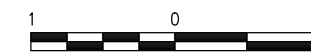
SCALE: 1/2"=1'



1
M101/M103

OFF-LOADING STATION ENLARGED VIEW

SCALE: 1/2"=1'



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

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
LOADING AND OFFLOADING ENLARGED PLANS

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: 1/2"=1'-0"
Drawing Number: M-103



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Designer: BCB	Checked by: JDF
Technician: BCB	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
**MOGAS DISPENSER
SITE PLAN**

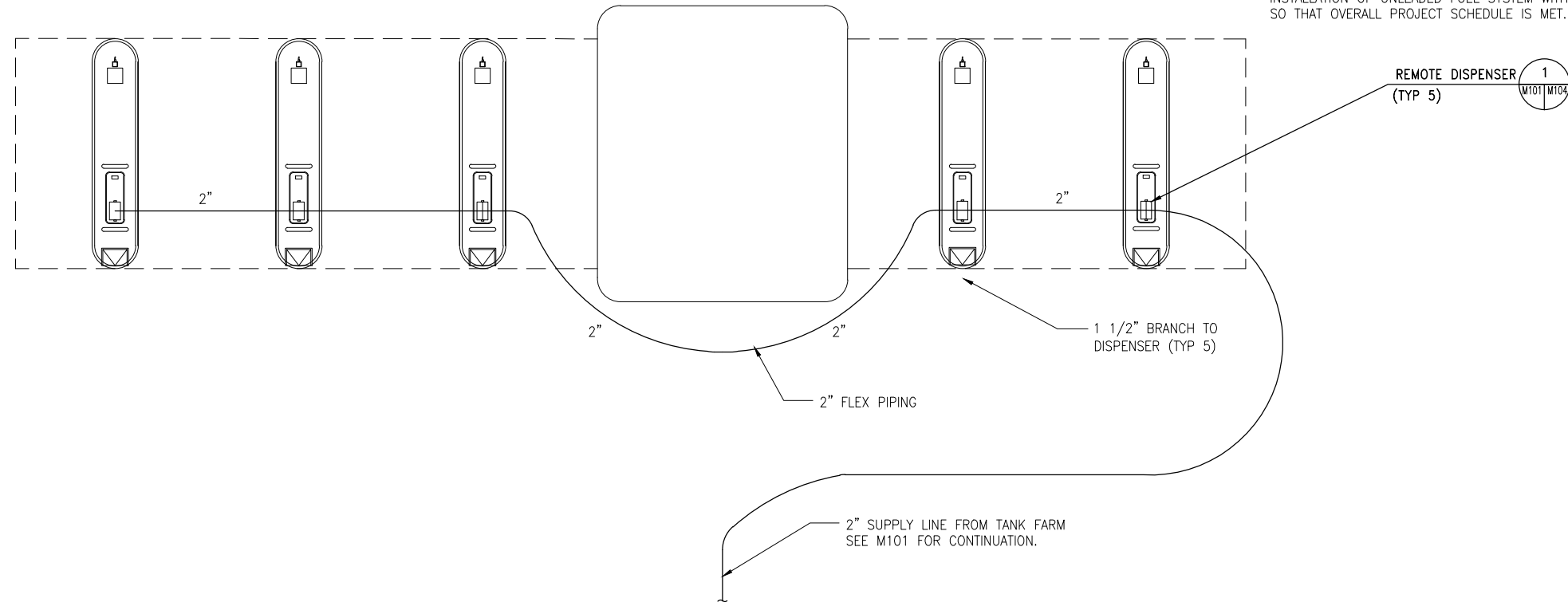
FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

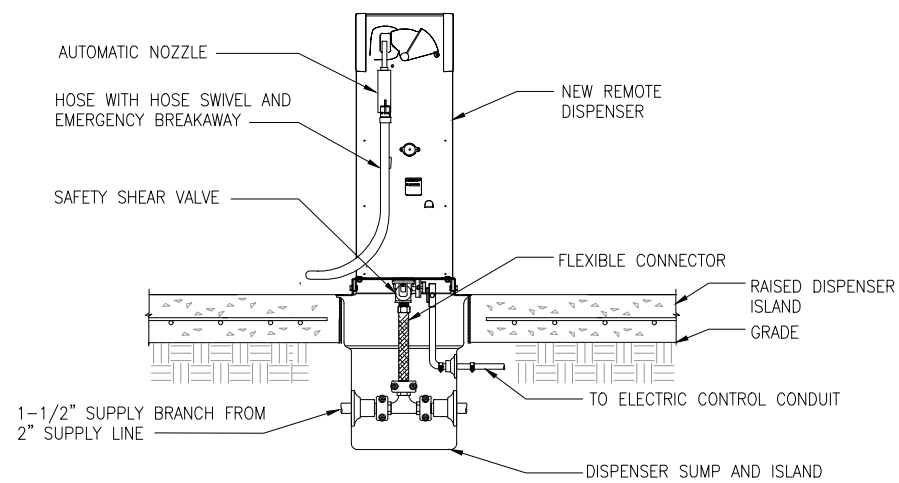
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Drawing Number: M-104

NOTES:

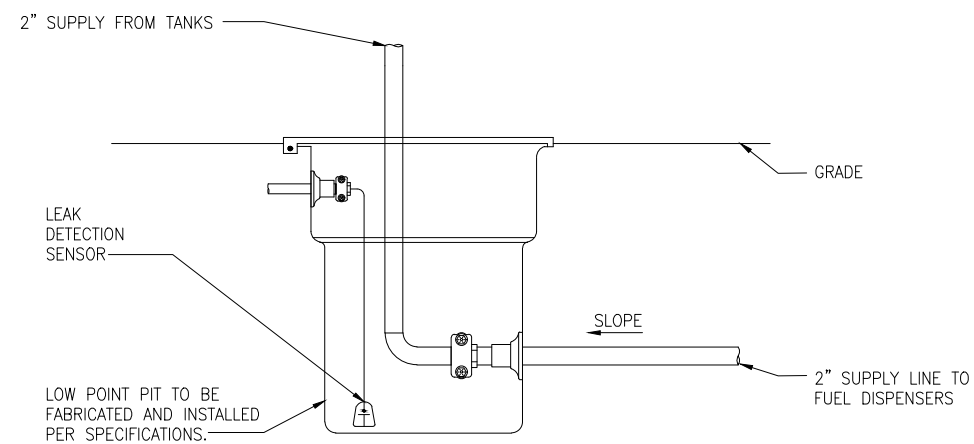
- SEE M-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- SEE M-101 FOR OVERALL PLAN VIEW.
- DISTANCE FROM MOGAS TANKS TO DISPENSER ISLANDS AND PLACEMENT OF PIPING FROM TANKS TO DISPENSERS SHALL BE FIELD ROUTED BY CONTRACTOR. OBTAIN APPROVAL OF ROUTING FROM OWNER PRIOR TO INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND TESTING OF DISPENSERS AND ALL ASSOCIATED APPURTENANCES, ALL FUEL PIPING AND DISPENSER CONTROLS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION ON CONTROLS. COORDINATE SCHEDULE AND INSTALLATION OF UNLEADED FUEL SYSTEM WITH OTHER CONTRACTOR SO THAT OVERALL PROJECT SCHEDULE IS MET.



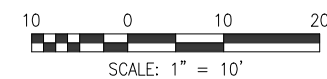
1 DISPENSER PIPING SITE PLAN (SEE NOTE 4)
SCALE: 1"=10'



2 REMOTE DISPENSER (TYP 5)
SCALE: NTS



3 LEAK DETECTION LOW POINT
SCALE: NTS





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Technician: BCB Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

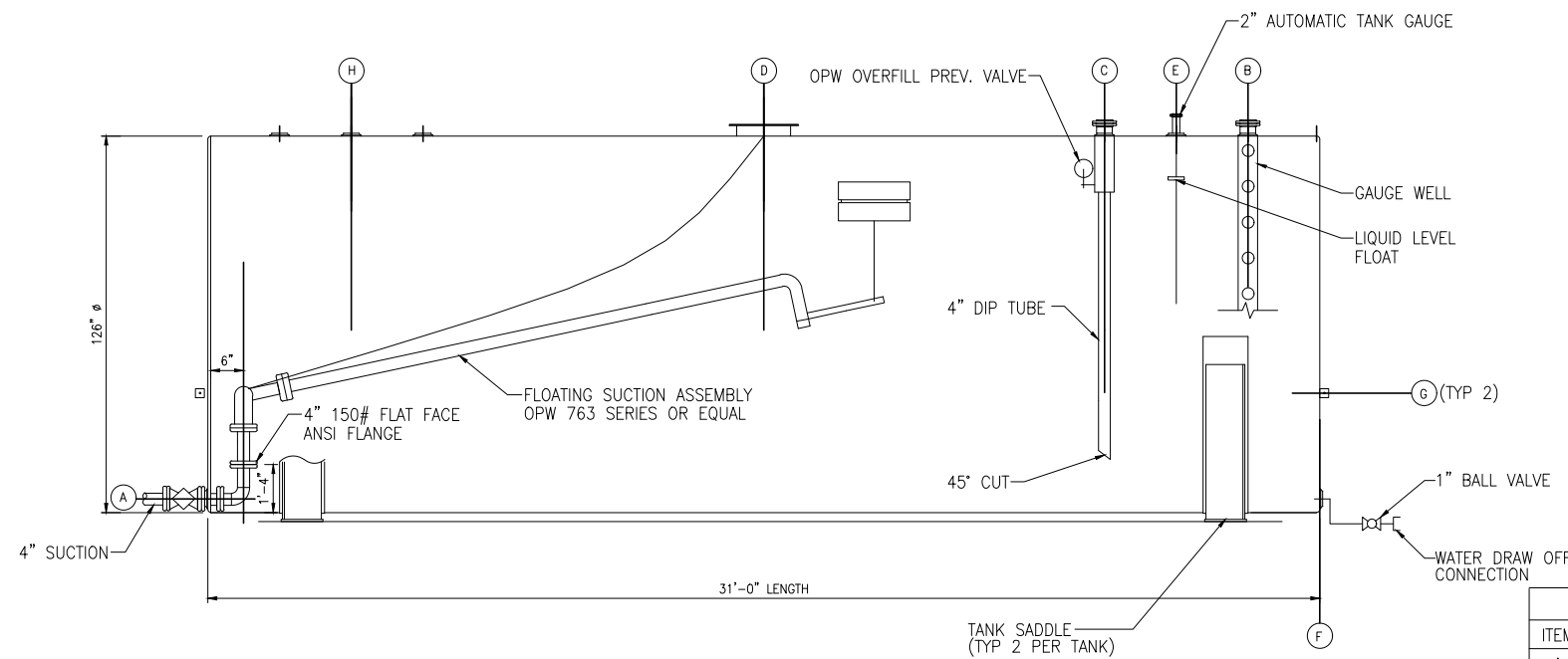
Drawing Name:
TANK LAYOUT PLAN

FAA A.J.P. PROJECT NUMBER:
ENGINEER OF RECORD

Date:
5/15/06
Scale:
1/2" = 1'-0"
Drawing Number:
M-401

NOTES:

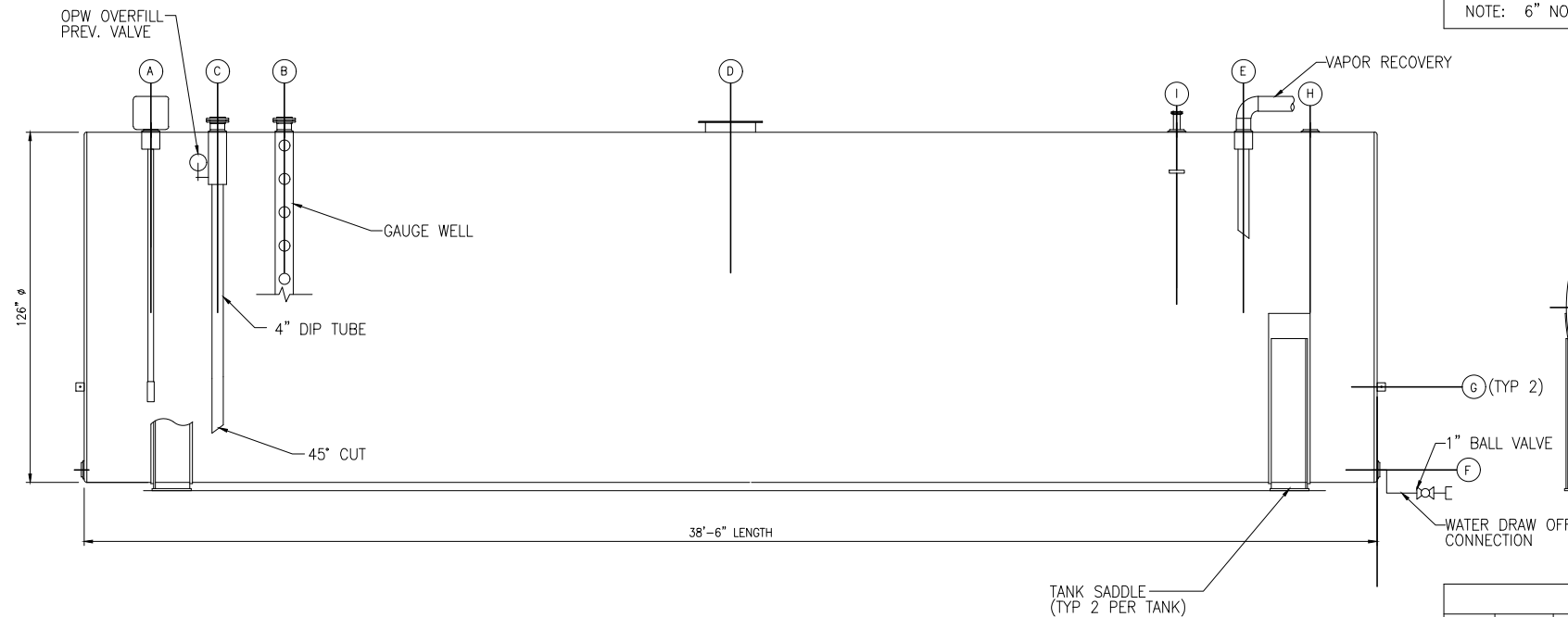
- SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
- MANWAYS SHALL BE PROVIDED WITH LONG BOLTS TO PROVIDE EMERGENCY RELIEF VENTING.
- CONTRACTOR SHALL ENSURE THAT MANWAY LADDER SHALL NOT IMPEDE OPERATION OF FLOATING SUCTION AND THAT FLOATING SUCTION DOES NOT IMPEDE ENTRY/USE OF MANWAY LADDER. LADDERS NOT SHOWN FOR CLARITY.
- MOGAS TANKS SHALL HAVE SMALL WATER DRAW OFF PUMP PROVIDED ACCORDING TO SPECIFICATION 15193 GASOLINE DISPENSING SYSTEMS.



1
JET-A TANK SECTION
20,000 GAL (TYP 4)
SCALE: 1/2"=1'

JET-A TANK NOZZLE SCHEDULE		
ITEM	SIZE	DESCRIPTION
A	4"	PUMP SUCTION - RF FLANGE
B	2"	ATMOSPHERIC VENT WITH GAUGE HATCH FOR DIP STICK
C	4"	FILL CONN - RF FLANGE
D	24"	MANWAY W/ BLIND FLANGE COVER
E	2"	ATG (AUTOMATIC TANK GAUGE) - RF FLANGE
F	1"	WATER DRAIN-OFF CONN. - 3000# THD CPLG.
G	-	GROUNDING LUG - 3"x3"x1/4" PLATE W/ 1/2"Ø HOLE - WELD TO TANK
H	4"	EMERGENCY VENT

NOTE: 6" NOZZLE PROJECTION (TYPICAL)



2
MOGAS TANK SECTION
25,000 GAL (TYP 2)
SCALE: 1/2"=1'

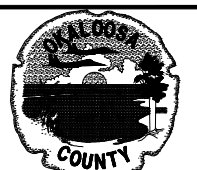
MOGAS TANK NOZZLE SCHEDULE		
ITEM	SIZE	DESCRIPTION
A	4"	PUMP SUCTION - RF FLANGE
B	2"	ATMOSPHERIC VENT WITH GAUGE HATCH FOR DIP STICK
C	4"	FILL CONN - RF FLANGE
D	24"	MANWAY W/ BLIND FLANGE COVER
E	2"	VAPOR RECOVERY
F	1"	WATER DRAIN-OFF CONN. - 3000# THD CPLG.
G	-	GROUNDING LUG - 3"x3"x1/4" PLATE W/ 1/2"Ø HOLE - WELD TO TANK
H	4"	EMERGENCY VENT
I	2"	ATG (AUTOMATIC TANK GAUGE) - RF FLANGE

NOTE: 6" NOZZLE PROJECTION (TYPICAL)



NOTES:

- SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
- DETAILS INDICATE WELDING OF SMALL DIAMETER PIPING AND FLANGED VALVES. AT CONTRACTOR'S OPTION, THREADED CONNECTIONS MAY BE USE FOR PIPING, VALVES AND APPURTENANCES 2" AND SMALLER.



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Designer: BCB	Checked by: JDF
Technician: BCB	Project Number: 06026.001

Notes:

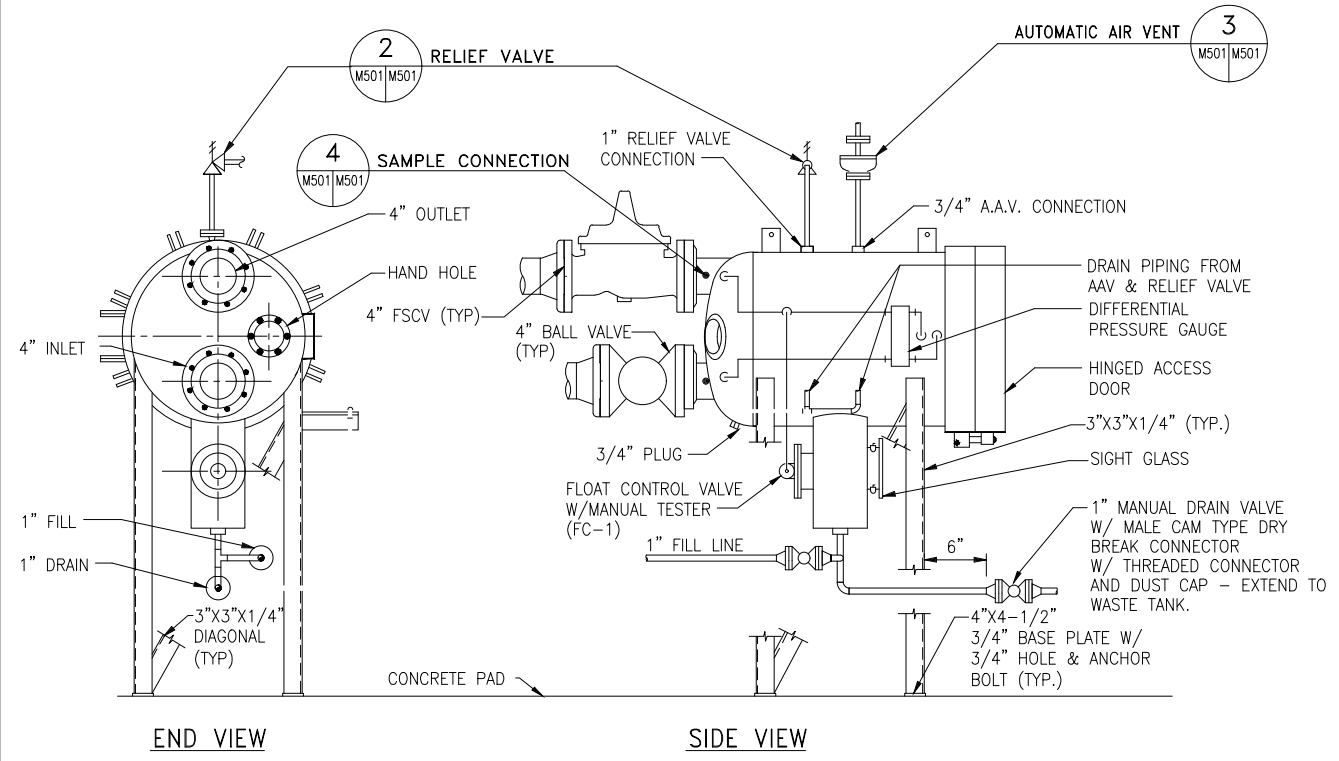
REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

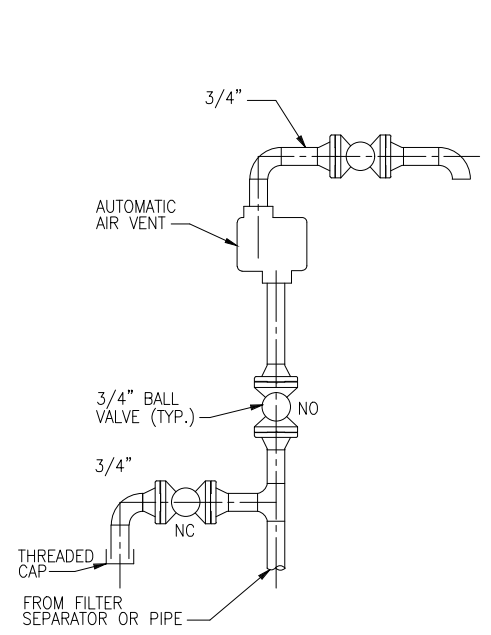
Drawing Name:
MECHANICAL DETAILS

FAA A.J.P. PROJECT NUMBER:
ENGINEER OF RECORD

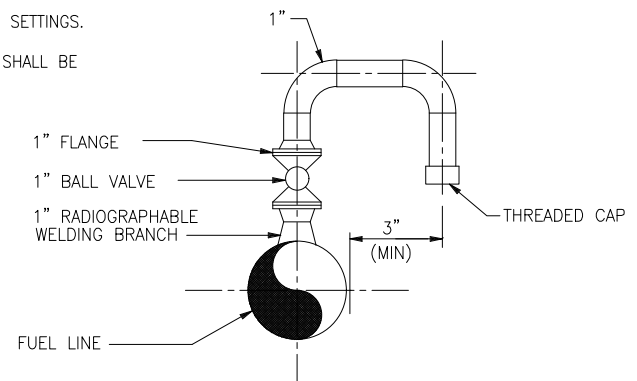
Date: 5/15/06
Scale: NTS
Drawing Number: M-501



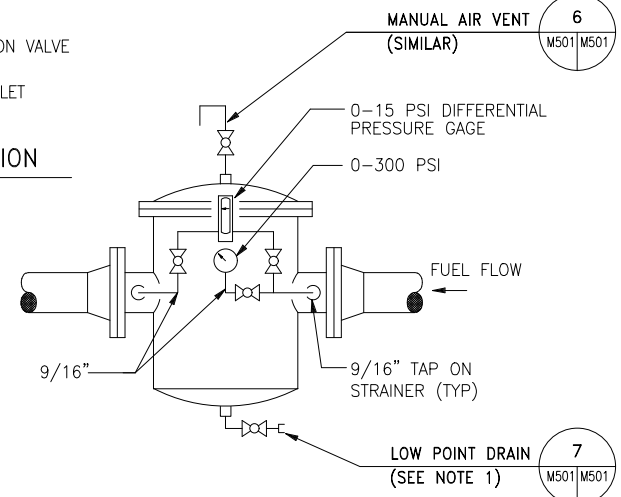
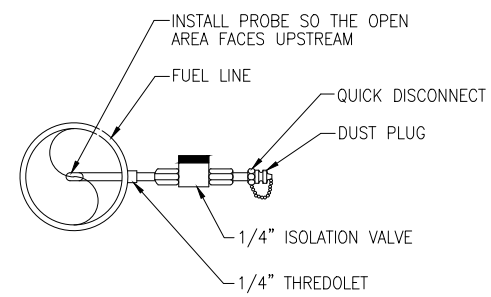
- NOTES:**
- PROVIDE WASTE TANK FOR FILTER SEPARATOR DRAIN LINES.



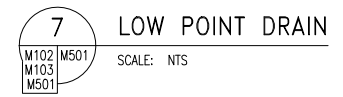
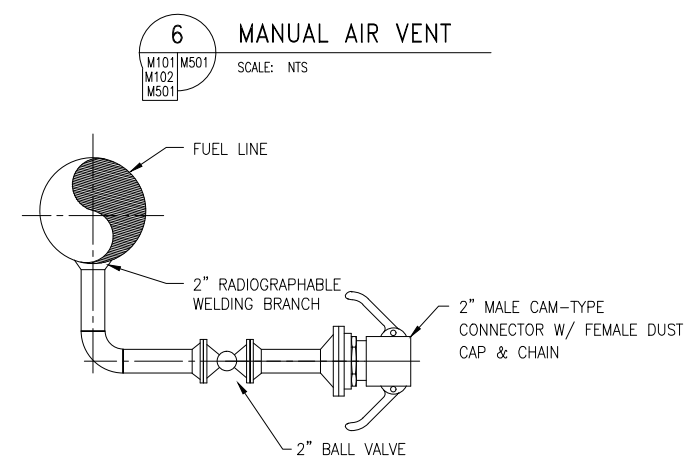
- ADJUSTABLE**
- NOTES:**
- PROVIDE SIGHT FLOW INDICATORS ON ADJUSTABLE THERMAL RELIEF VALVES WHICH DISCHARGE TO THE PRODUCT RECOVERY SYSTEM. DO NOT PROVIDE ON ADJUSTABLE RELIEF VALVES WHICH CASCADE BACK INTO THE PIPING SYSTEM.
 - AFTER INSTALLATION, REMOVE HANDLES ON VALVES WITH VALVE IN THE OPEN POSITION. TURN OVER HANDLES TO THE OWNER.
 - ALL JOINTS SHALL BE WELDED EXCEPT WHERE SHOWN.
 - SEE FLOW DIAGRAMS FOR PRESSURE RELIEF VALVE SETTINGS.
 - CONNECTION FROM PIPELINE TO RELIEF ASSEMBLY SHALL BE VIA RADIOGRAPHABLE WELDING BRANCH FITTING.



- NOTES:**
- BALL VALVE MAY BE LOCATED IN HORIZONTAL RUN OF VENT PIPE.



- NOTES:**
- SIZE OF DRAIN TO MATCH SIZE OF STRAINER FURNISHED.



Y:\Marketing\Okaloosa\Fuel\M501.dwg January 24 2017 - 14:59



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Technician: BCB	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
MECHANICAL DETAILS

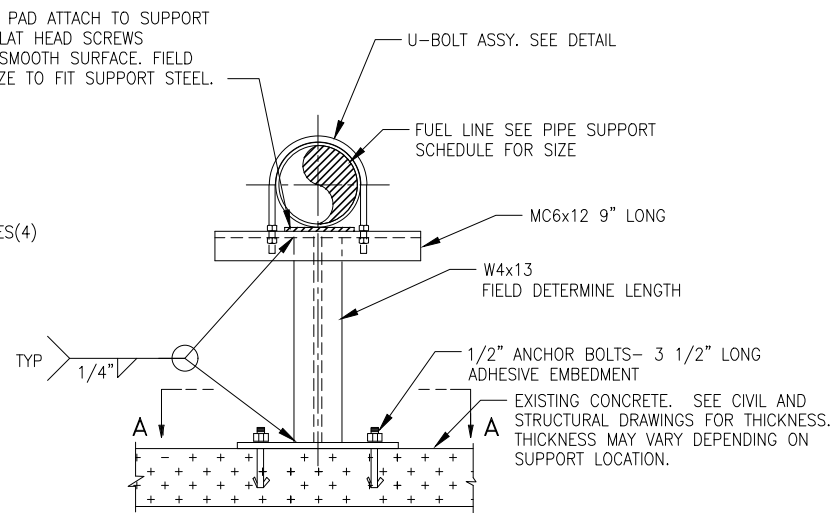
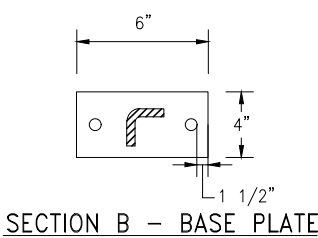
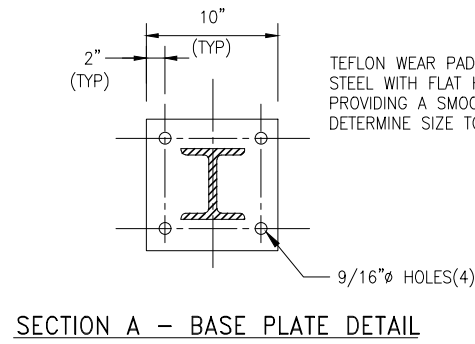
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ENGINEER OF RECORD

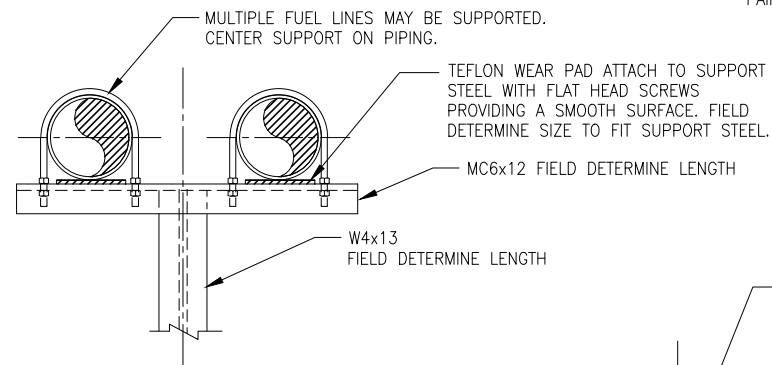
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Scale: NTS
Drawing Number: M-502

NOTES:

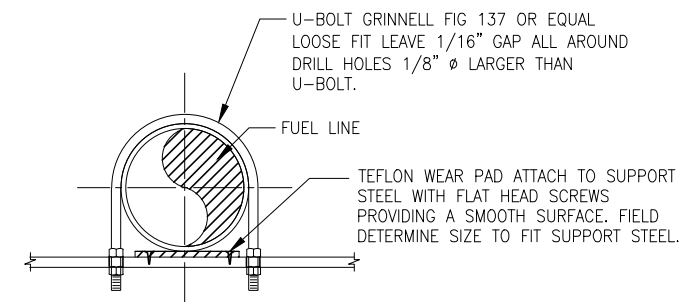
- SEE M-001 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
- ALL SUPPORT MATERIAL SHALL BE ASTM A36 CARBON STEEL PAINTED WITH A ZINC RICH PRIMER.



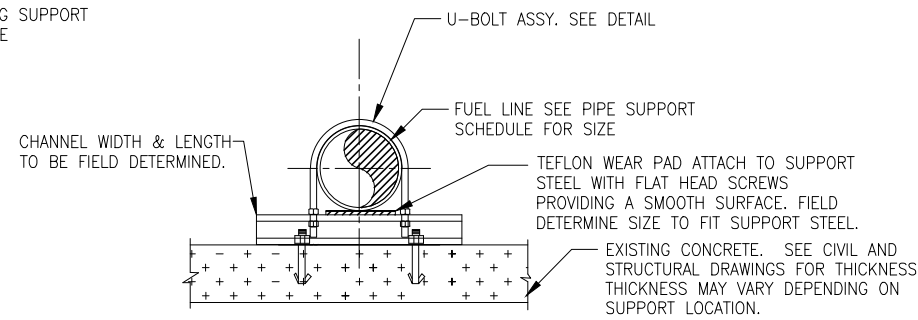
TYPE A
2 1/2" & ABOVE PIPING SUPPORT ATTACHING TO CONCRETE



MULTIPLE PIPE SUPPORT FOR TYPE A SUPPORT

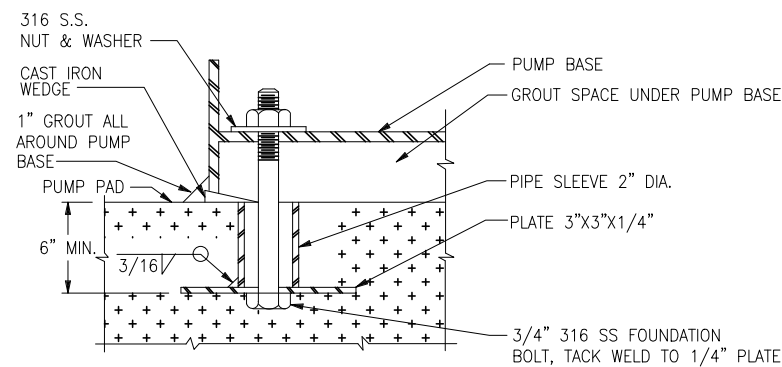


TYPICAL U-BOLT ASSEMBLY

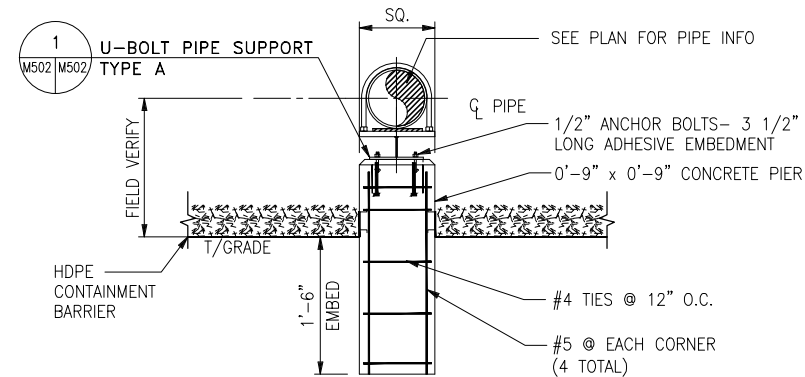


TYPE B
SUPPORT USED FOR LOW PIPING ATTACHING TO CONC.

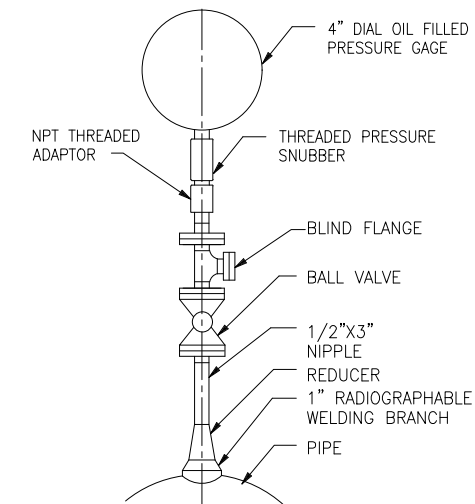
1 U-BOLT PIPE SUPPORTS
SCALE: NTS



2 PUMP BASE
SCALE: NTS



3 BURIED CONCRETE PIPE SUPPORT
SCALE: NTS



TYPICAL PRESSURE GAUGE DETAIL
SCALE: NTS

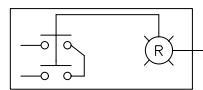
NOTES:

- LINER AND LINER PENETRATION ONLY PERTAINS TO SUPPORTS INSIDE THE TANK FARM AREA.

LEGEND

SYMBOL	DESCRIPTION
	NEW POLE MOUNTED AREA OR FLOODLIGHT FIXTURE BY OTHERS
	DUPLEX RECEPTACLE NEMA 5-20R, MTD 18" AFF UNLESS OTHERWISE NOTED
	SPECIALTY RECEPTACLE, NEMA TYPE AS REQUIRED BY EQUIPMENT OR APPLIANCE.
SUBSCRIPTS	GFI = GROUND FAULT INTERRUPTER; WP = WEATHER PROOF; EWC = ELECTRIC WATER COOLER; EXP = EXPLOSION PROOF; P = RUN PILOT LIGHT
	WALL SWITCH AC TYPE, 1-POLE, 20A, 125/277V MT 1219mm (48") AFF
	MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOADS, SINGLE POLE, MT ON UNIT UNLESS INDICATED OTHERWISE
	4' SURFACE MOUNTED FLUORESCENT FIXTURE
	EFSO PUSHBUTTON STATION (EMERGENCY FUEL SHUTOFF)
	MOTOR, HP AS INDICATED
	3-POLE MAGNETIC MOTOR STARTER (NEMA SIZE/NEMA ENCLOSURE)
	3-POLE COMBINATION MAGNETIC MOTOR STARTER, FUSIBLE TYPE, (NEMA SIZE/NEMA ENCLOSURE/FUSE SIZE), NF = NON-FUSED
	DISCONNECT SWITCH, (SWITCH AMPS/FUSE SIZE/POLES/NEMA ENCLOSURE), NF = NON-FUSED
	PANELBOARD
	EQUIPMENT AS INDICATED
	JUNCTION BOX; BOX NUMBER ADJACENT
	19mm (3/4") X 3048mm (10'-0") COPPERCLAD GROUND ROD, 458mm (18") BFG.
	GROUND CONNECTION
	#1/0 BARE COPPER GROUND CONDUCTOR, UIO #4/0 BARE COPPER GROUND CONDUCTOR
	LIGHTNING PROTECTION AIR TERMINAL
	ALARM HORN
	RACEWAY EXPOSED
	RACEWAY CONCEALED BELOW SLAB/GRADE
	DUCTBANK - CONCRETE ENCASED
	RACEWAY TURNED TOWARD VIEWER
	RACEWAY TURNED AWAY FROM VIEWER
	RACEWAY TERMINATION, STUB-OUT AND CAP
	SEAL FITTING
	UNION FITTING
	FLEXIBLE METAL CONDUIT (SEE SPECIFICATION FOR AREAS REQUIRING LIQUIDTIGHT)

SYMBOL	DESCRIPTION
•	ELECTRICAL CONNECTION
	MOTOR FRAME TEMPERATURE THERMOSTAT
	AUTOTRANSFORMER OVERTEMP CONTACT
	FUSE
	NORMALLY OPEN CONTACT
	THERMAL OVERLOAD
	NORMALLY CLOSED CONTACT
	CIRCUIT BREAKER
	SWITCH
	NO MOMENTARY PUSHBUTTON
	NC MOMENTARY PUSHBUTTON
	SOLENOID
	OVERLOAD HEATER
	3-POSITION SELECTOR SWITCH
	2-POSITION SELECTOR SWITCH
	PILOT LIGHT (G=GREEN, R=RED, A=AMBER)
	CONTROL RELAY COIL
	TIME DELAY RELAY COIL
	MOTOR STARTER COIL
	LIGHTING CONTACTOR COIL



PUSH-TO-TEST PILOT LIGHT

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES
AC	ALTERNATING CURRENT ABOVE FINISHED FLOOR
AFF	FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AIC	AMPERES INTERRUPTING CAPACITY
ATG	AUTOMATIC TANK GAUGING
BCW	BARE COPPER WIRE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COM	COMMON
CP	CATHODIC PROTECTION
CU	COPPER
D	DEPTH
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DISP	DISPENSER
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW
EFSO	EMERGENCY FUEL SHUT-OFF
ELEC	ELECTRICAL
EXIST OR EX	EXISTING
EXP	EXPLOSION PROOF
F	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
G OR GND	GROUND
GFI	GROUND-FAULT-INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HP	HORSEPOWER
J OR JB	JUNCTION BOX
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
MLO	MAIN LUGS ONLY
MT OR MTD	MOUNT OR MOUNTED
N OR NTL	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PNL	PANELBOARD
PSI	POUNDS PER SQUARE INCH POLYVINYL CHLORIDE
PVC	REDUCED VOLTAGE NON-REVERSING SHIELDED
RVNR	REDUCED VOLTAGE NON-REVERSING SHIELDED
SHLD	SHIELDED
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SWBD	SWITCHBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TP	TWISTED PAIR
TSP	TWISTED SHIELD PAIR
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT-AMPERES
W	WATTS OR WIDTH OR WIRE
WP	WEATHER PROOF



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Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

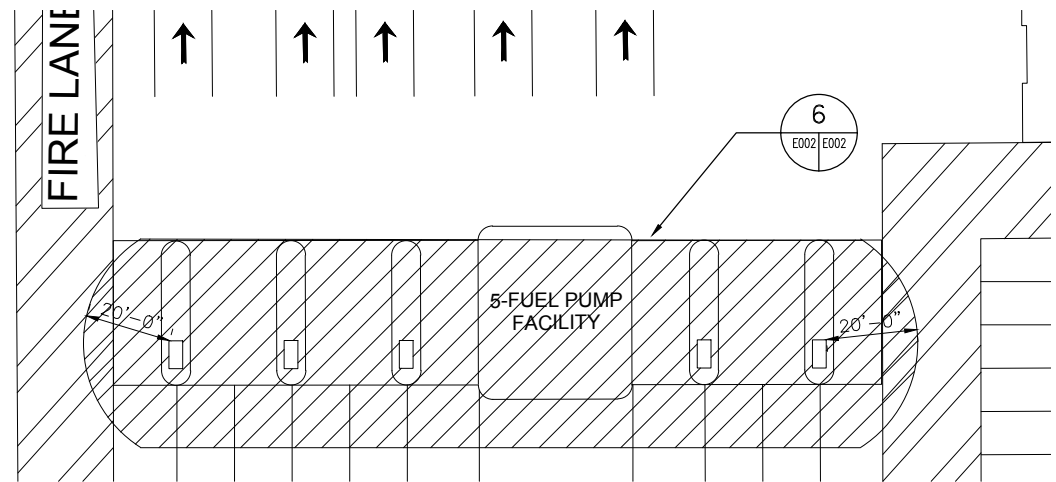
Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ELECTRICAL LEGEND AND ABBREVIATIONS

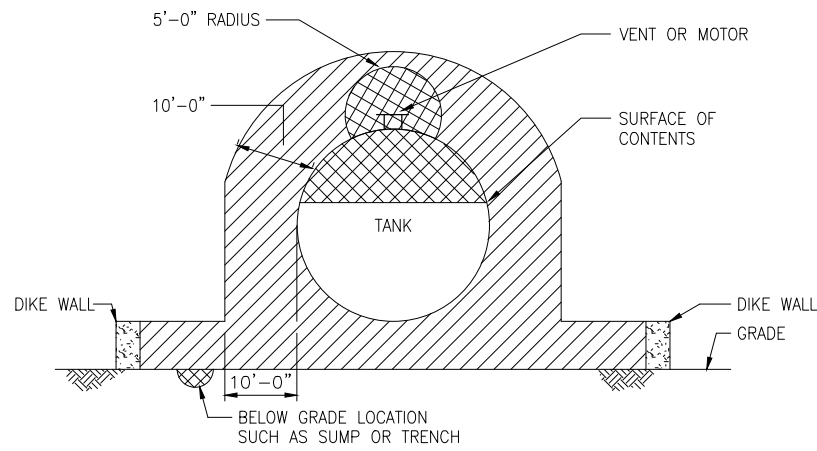
FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

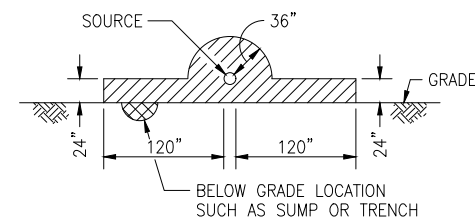
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Drawing Number: E-001



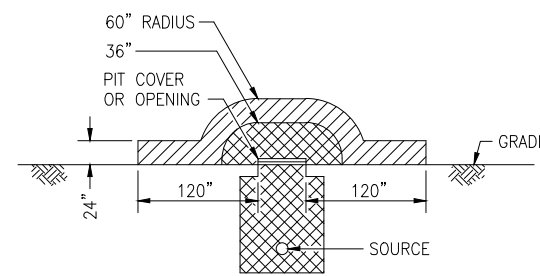
1 RENTAL CAR FUEL ISLANDS
E002 E002 SCALE: 1" = 20'-0"



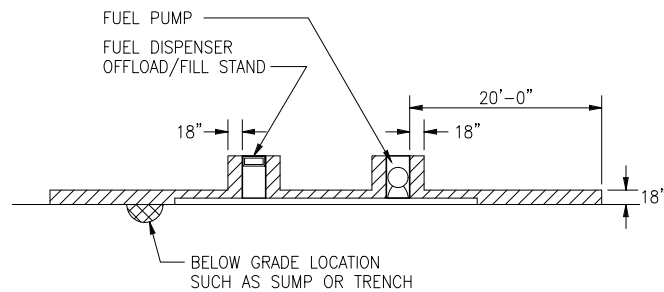
3 ABOVE GROUND TANK
E002 E002 SCALE: NTS



4 ABOVE GROUND PIPING
E002 E002 SCALE: NTS



5 PIT - BELOW GRADE
E002 E002 SCALE: NTS



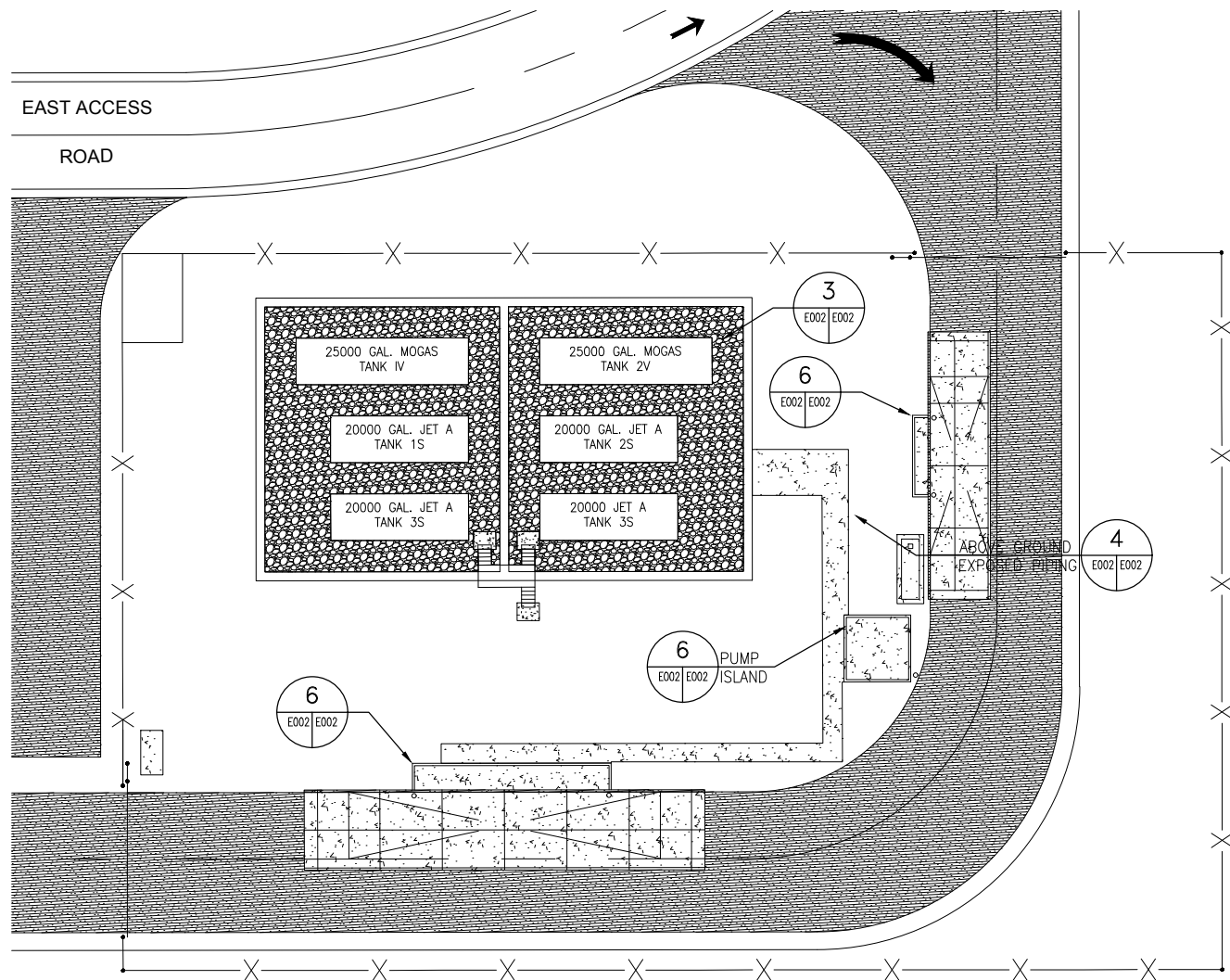
6 FUEL DISPENSER ISLAND/OFFLOAD/TRUCKFILL STANDS
E002 E002 SCALE: NTS

NOTES:

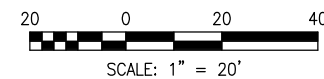
1. ALL ELECTRICAL WORK IN HAZARDOUS AREAS SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 501 FOR CLASSIFICATION INDICATED.
2. PIT DETAIL APPLIES TO HIGH POINT, LOW POINT, ISOLATION VALVE PITS AND O/W SEPARATOR. REFER TO CIVIL AND MECHANICAL PLANS FOR PIT LOCATIONS.
3. DETAIL APPLIES TO ABOVEGROUND PIPING WITH VALVES, SCREWED FITTINGS, FLANGES OR SIMILAR ACCESSORIES. REFER TO CIVIL AND MECHANICAL PLANS FOR PIPING.
4. SEE E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

CLASSIFICATION LEGEND:

- CLASS I, DIVISION 1, GROUP D HAZARDOUS AREA (T2D, 251°C (419°F) MAX.)
- CLASS I, DIVISION 2, GROUP D HAZARDOUS AREA (T2D, 251°C (419°F) MAX.)
- NONCLASSIFIED AREA



2 TANK FARM
E002 E002 SCALE: 1" = 20'-0"



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Designer: WBC	Checked by: KJZ
Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:

OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

Drawing Name:
HAZARDOUS AREA CLASSIFICATIONS

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date:
5/15/06

Scale:
AS INDICATED

Drawing Number:
E-002



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Designer: WBC Checked by: KJZ
Technician: Project Number: 06026.001

Notes:

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No.	Description	Date	By

Project Name:

OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

Drawing Name:
ELECTRICAL POWER &
CONTROL PLAN-RENTAL
CAR FUELING FACILITY

FAA A.J.P. PROJECT NUMBER:

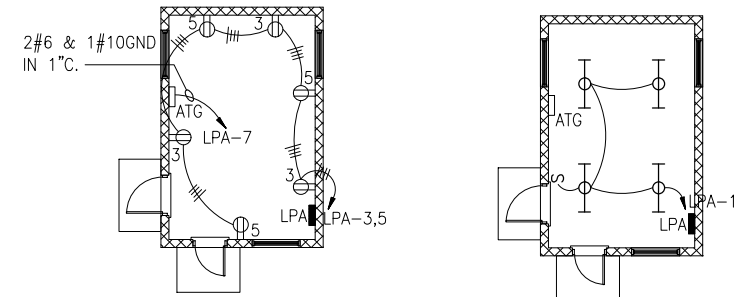
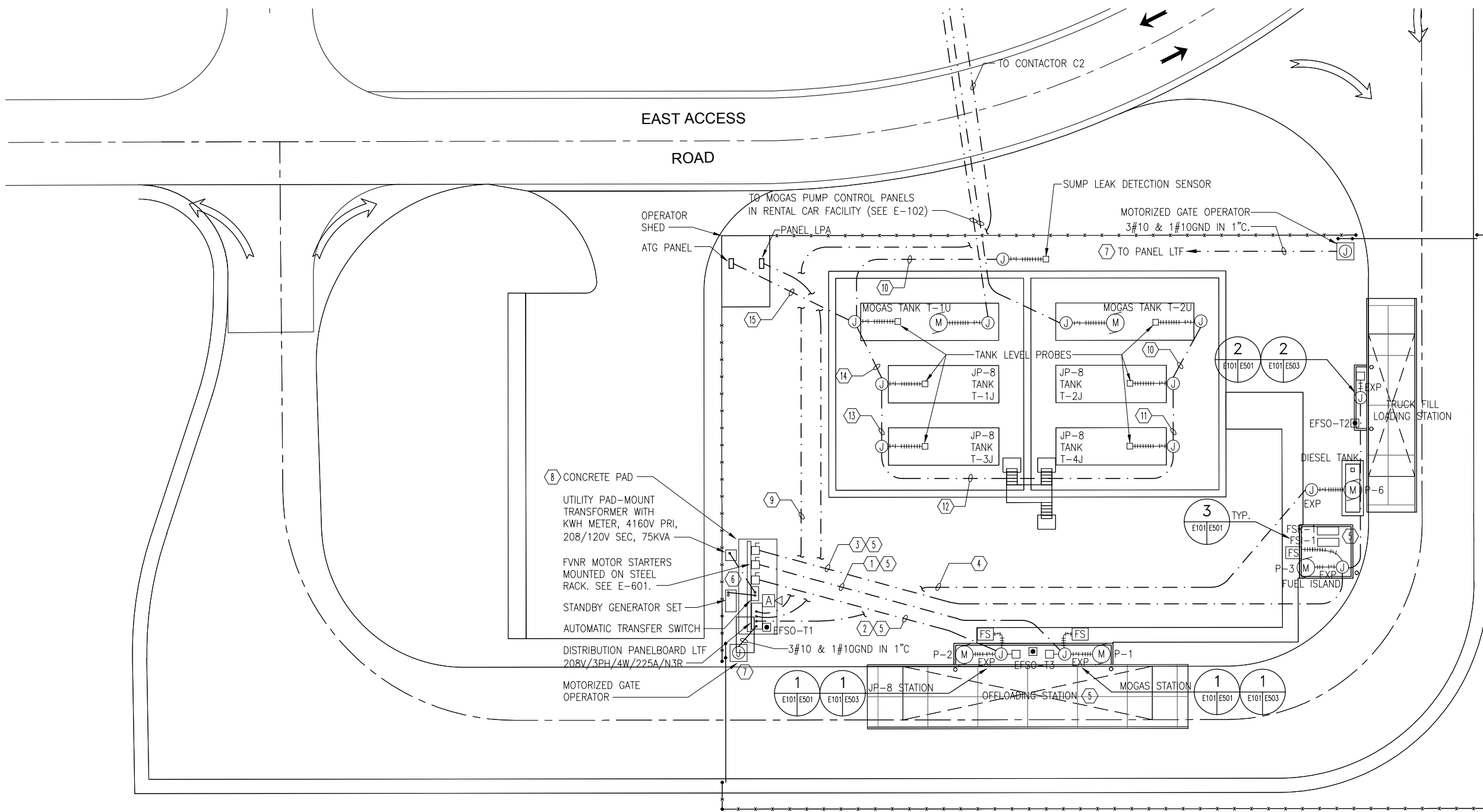
ENGINEER OF RECORD

Date:
5/15/06

Scale:
1/16" = 1'-0"

Drawing Number:
E-101

SEE E-102
FOR CONTINUATION

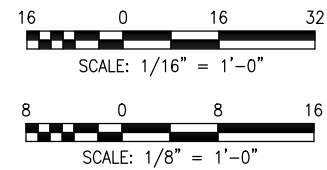


2 ENLARGED OPERATOR SHED PLAN
E101|E101 SCALE: 1/8" = 1'-0"

LEGEND NOTES:

- ① 3#6 & 1#8GND IN 1" TO P-1
 - ② 3#2 & 1#8GND IN 1-1/2" TO P-2
 - ③ 3#1/0 & 1#6GND IN 2" TO P-3
 - ④ 2#10 & 1#10GND IN 3/4"
 - ⑤ 2#14 FOR MOTOR HEATER
2#14 FOR MOTOR HIGH TEMPERATURE SWITCH
2#14 FOR "RUN" PILOT LIGHT
2#14 FOR FLOW SWITCH
3#14 FOR "RUN" AND "STOP" PILOT LIGHTS
3#14 FOR "START" AND "STOP" PUSHBUTTONS
3#14 FOR GROUND VERIFICATION UNIT
 - ⑥ SEE ONE-LINE DIAGRAM FOR ALL REQUIRED POWER AND GROUNDING CONDUCTORS.
 - ⑦ SERVE MOTORIZED GATE OPERATOR WITH A 20A CIRCUIT BREAKER, NUMBER OF POLES AS REQUIRED.
 - ⑧ COORDINATE EQUIPMENT LAYOUT WITH CONCRETE PAD SPECIFIED UNDER CIVIL DRAWINGS.
 - ⑨ 2#12 & 1#12GND IN 1/2" TO EFSO CONTACTOR C2.
 - ⑩ (1) TSP#18 IN 3/4"
 - ⑪ (2) TSP#18 IN 3/4"
 - ⑫ (3) TSP#18 IN 3/4"
 - ⑬ (4) TSP#18 IN 1"
 - ⑭ (5) TSP#18 IN 1"
 - ⑮ (7) TSP#18 IN 1"
- SEE ONE-LINE DIAGRAM FOR ALL REQUIRED POWER AND GROUNDING CONDUCTORS.
- SERVE MOTORIZED GATE OPERATOR WITH A 20A CIRCUIT BREAKER, NUMBER OF POLES AS REQUIRED.

1 TANK FARM POWER PLAN
E101|E101 SCALE: 1/16" = 1'-0"



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Technician:	Project Number: 06026.001

Notes:

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Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
**ELECTRICAL POWER &
CONTROL PLAN-RENTAL
CAR FUELING FACILITY**

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date:
5/15/06

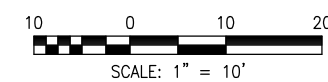
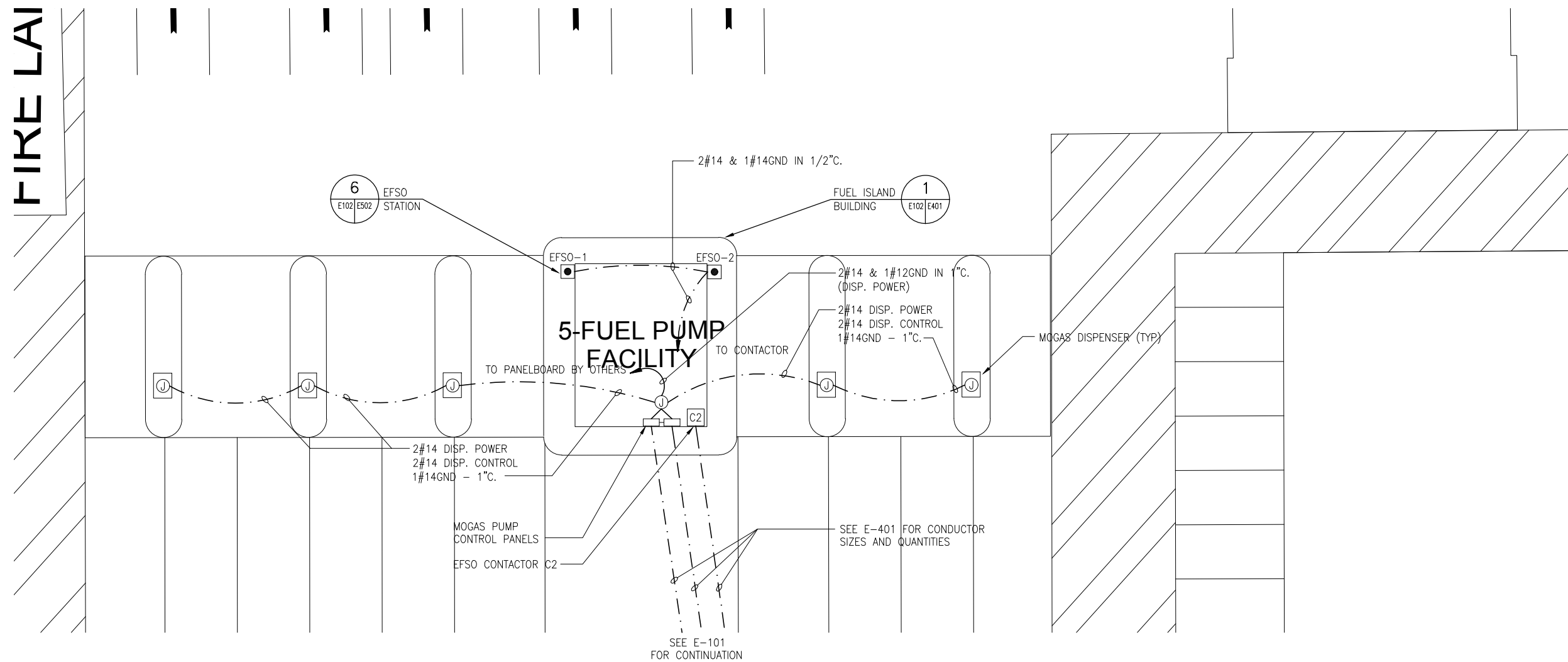
Scale:
1" = 10'-0"

Drawing Number:
E-102

GENERAL NOTES

1. CONTRACTOR SHALL REFERENCE SPECIFICATIONS FOR FUEL MANAGEMENT SYSTEM. SEE DRAWINGS E2.1.
2. REFER TO DRAWING E-401 FOR CONNECTION DETAILS ON MOGAS PUMP CONTROLLERS.

FIRE LAL





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Technician:	Project Number: 06026.001

Notes:

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No.	Description	Date	By

Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
**GROUNDING PLAN -
TANK AREA**

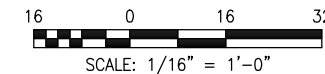
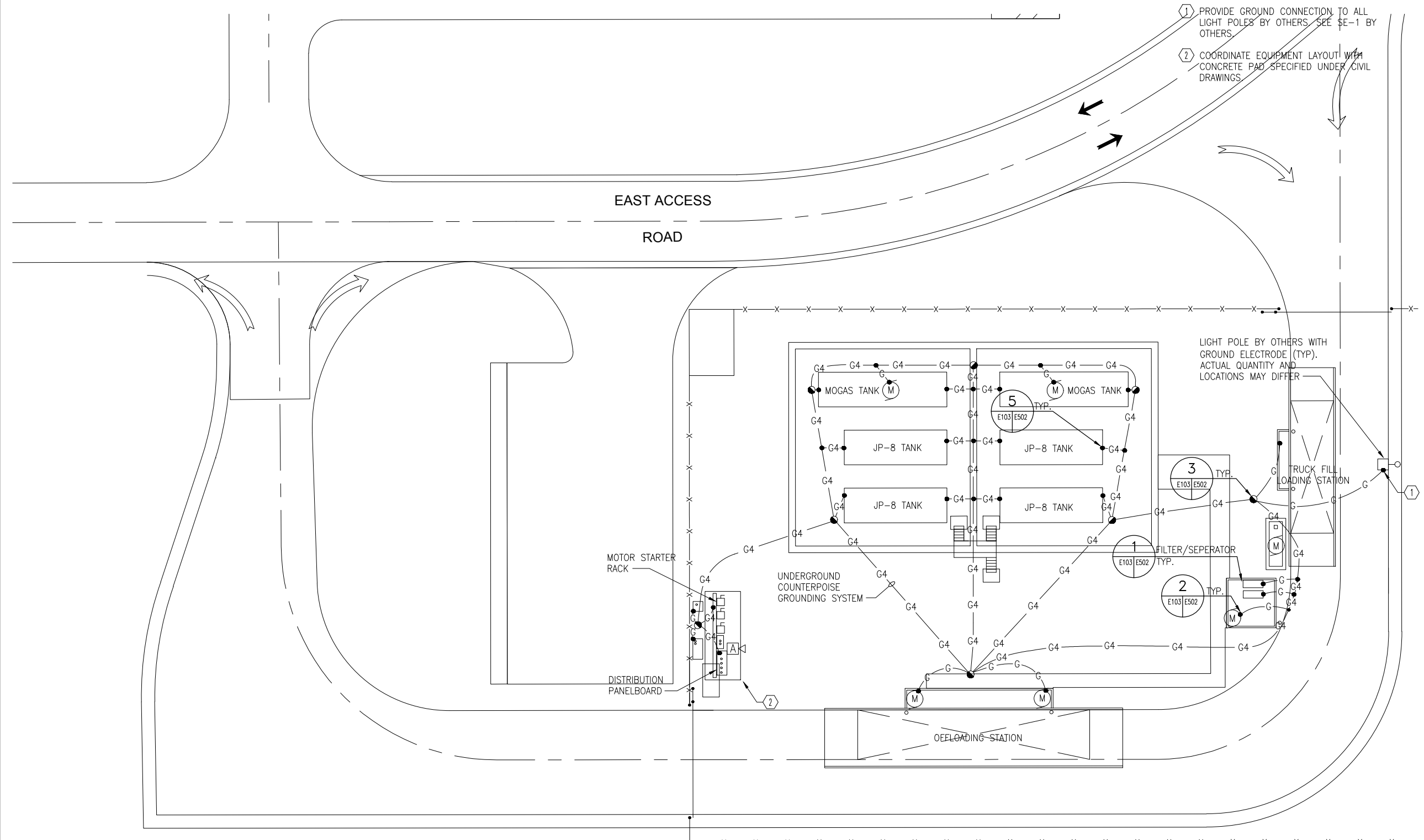
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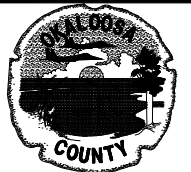
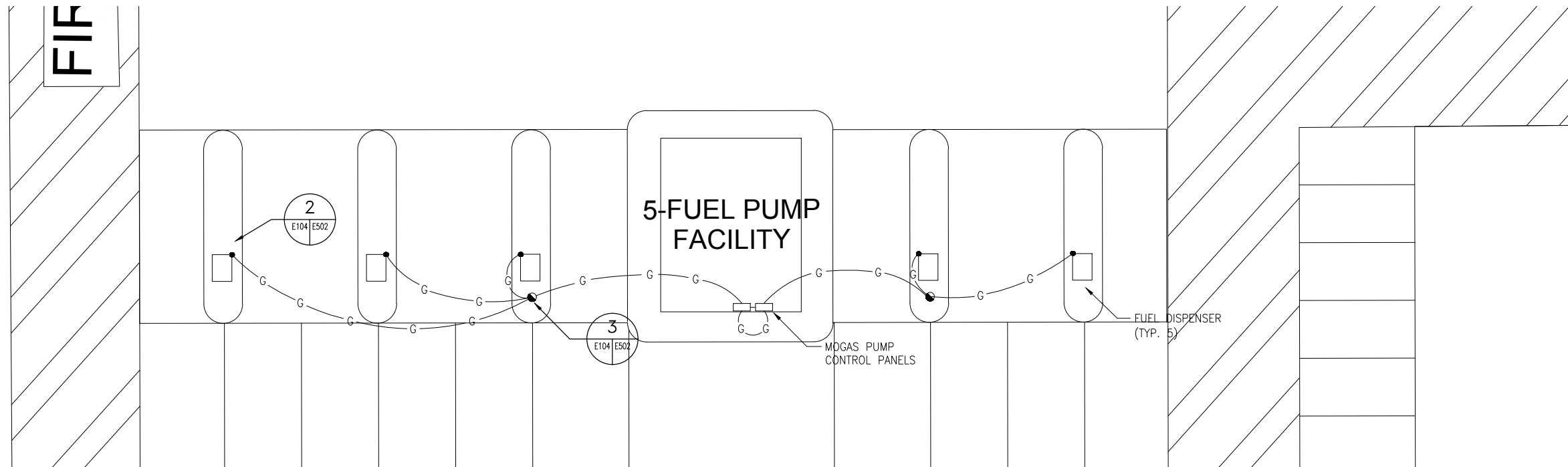
Date: 5/15/06
Scale: 1/16" = 1'-0"
Drawing Number: E-103

KEYED NOTES:

- ① PROVIDE GROUND CONNECTION TO ALL LIGHT POLES BY OTHERS. SEE SE-1 BY OTHERS.
- ② COORDINATE EQUIPMENT LAYOUT WITH CONCRETE PAD SPECIFIED UNDER CIVIL DRAWINGS.



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Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
**OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY**

Drawing Name:
**GROUNDING PLAN –
RENTAL CAR
FUELING FACILITY**

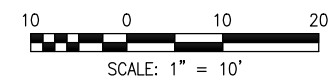
FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date:
5/15/06

Scale:
1" = 10'

Drawing Number:
E-104





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Project Number: 06026.001

Notes:

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No.	Description	Date	By

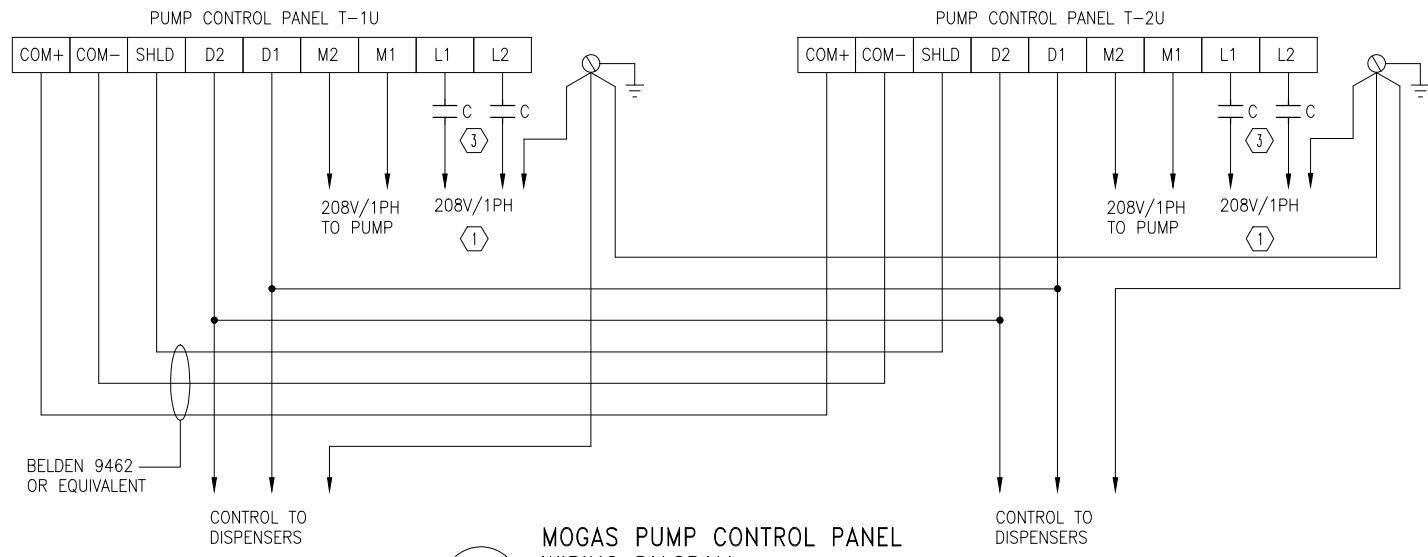
Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ENLARGED PLAN ELECTRICAL POWER RENTAL CAR FACILITY

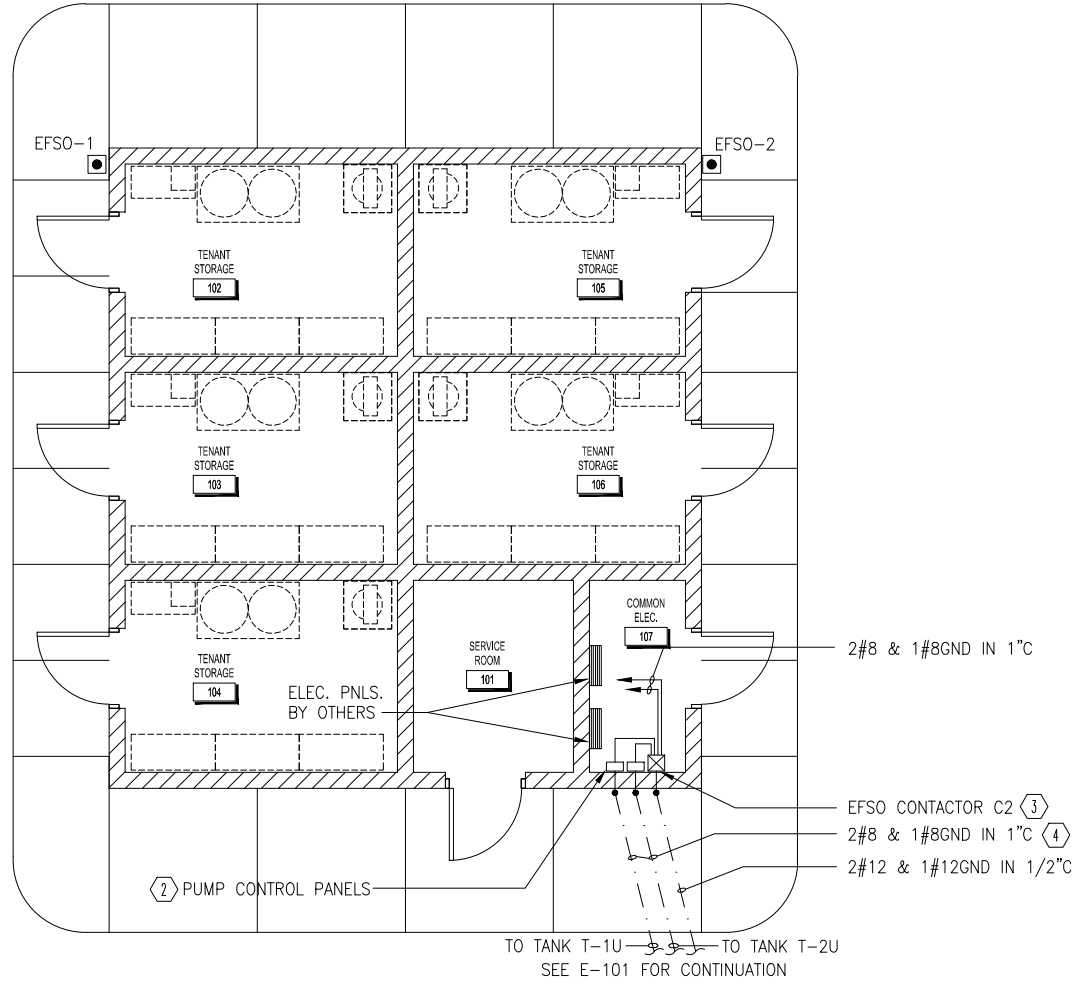
FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

Date: 5/15/06
Scale: AS INDICATED
Drawing Number: **E-401**



2
MORGAS PUMP CONTROL PANEL WIRING DIAGRAM
SCALE: NTS



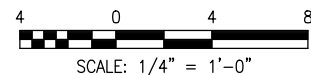
1
ENLARGED PLAN-RENTAL CAR FACILITY
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- SEE E-001 FOR LEGEND, ABBREVIATIONS, AND SYMBOLS.
- SEE E-002 FOR HAZARDOUS AREA CLASSIFICATIONS.

LEGEND NOTES

- SERVE FROM PANELBOARD A3. PROVIDE 15A/2P CIRCUIT BREAKER FOR EACH CONTROL PANEL.
- MOUNT EQUIPMENT 60" AFF TO CENTER OF ENCLOSURE. REFER TO 1/E401 WIRING DIAGRAM FOR CONNECTIONS.
- POWER TO PUMP CONTROL PANELS SHALL BE CONTROLLED THROUGH A MULTI-POLE, MECAHICALLY HELD CONTACTOR AS PART OF THE EMERGENCY FUEL SHUTOFF SYSTEM (EFSO). PROVIDE AUXILIARY CONTACT AS REQUIRED FOR PROPER OPERATION. REFER TO 2/E-504 WIRING DIAGRAM FOR CONNECTIONS.
- SEE E-101 AND E-102 FOR CONTINUATION.



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Technician: [blank]
Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ELECTRICAL DETAILS

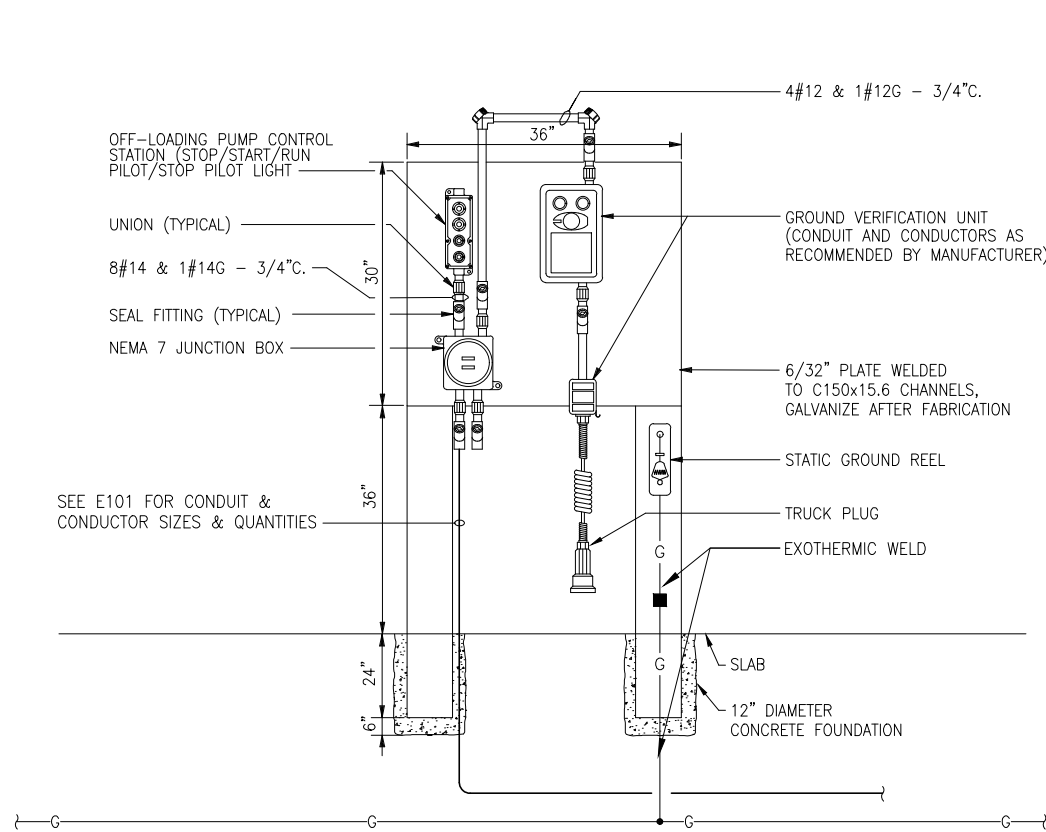
FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

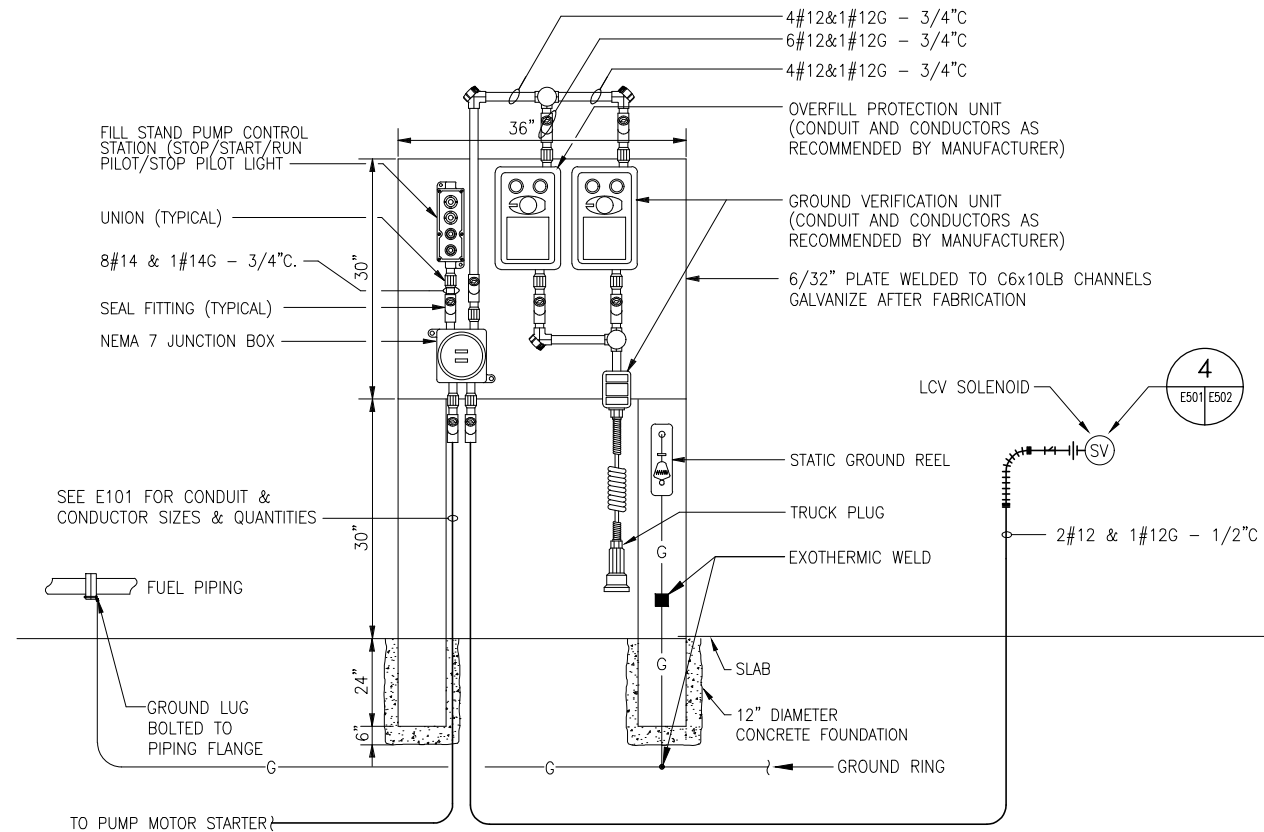
Date:
5/15/06

Scale:
NTS

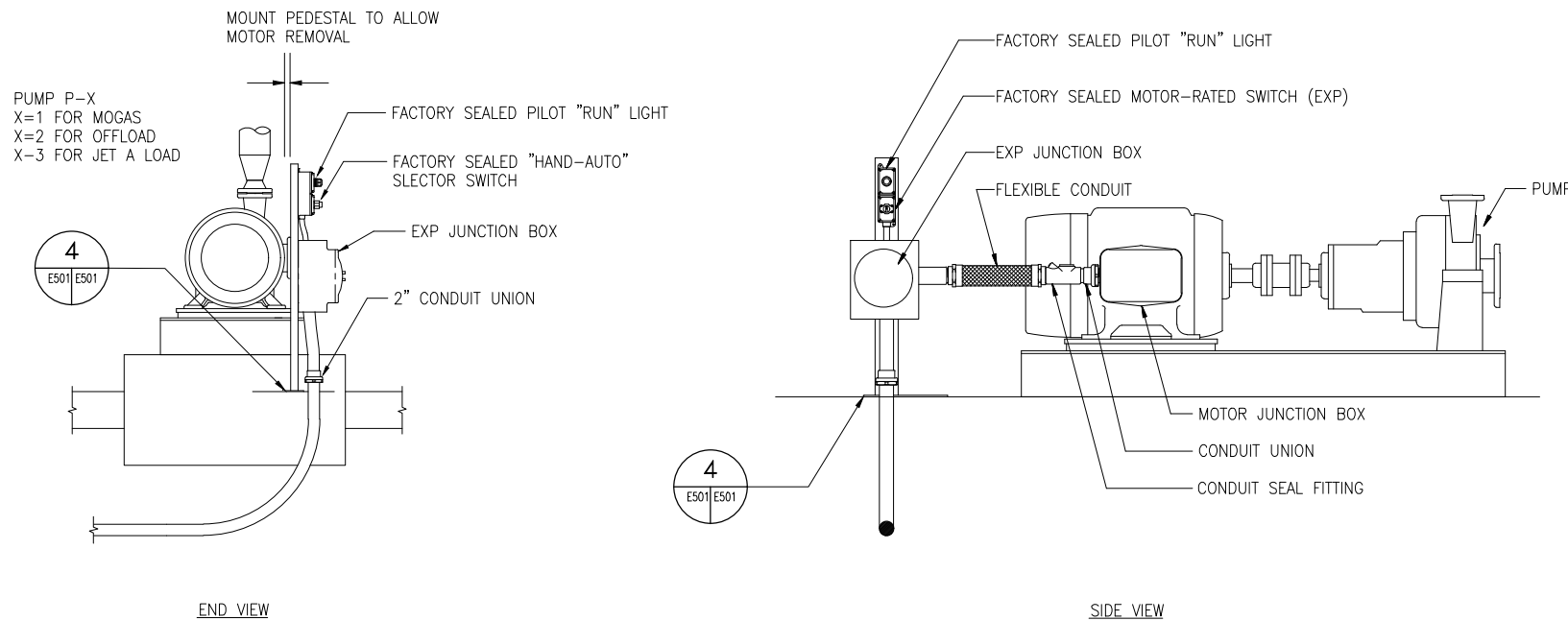
Drawing Number:
E-501



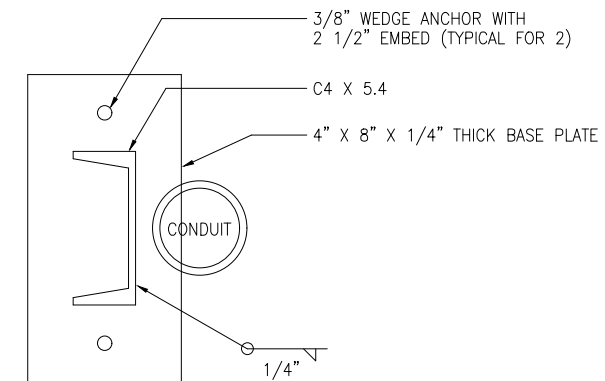
1
E101|E501
SCALE: NTS
DETAIL - OFFLOAD STATION (JP-8 & MOGAS)



2
E101|E501
SCALE: NTS
DETAIL - TRUCK FILL STAND (JP-8)



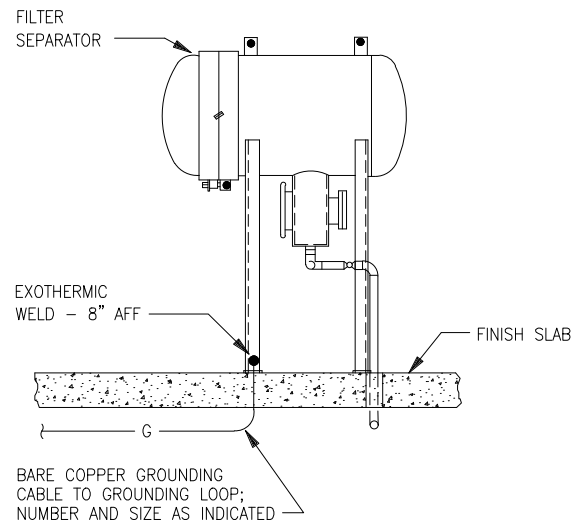
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E101|E501
SCALE: NTS
DETAIL-FUEL PUMP CONNECTION



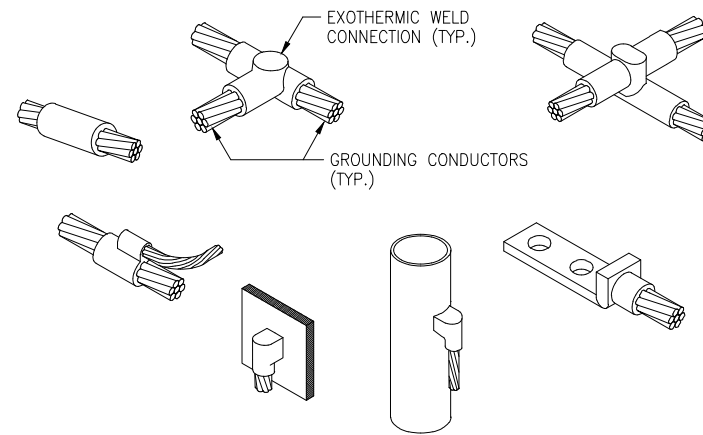
4
E501|E502
SCALE: NTS
DETAIL - STAND WITH BASE PLATE

GENERAL NOTES

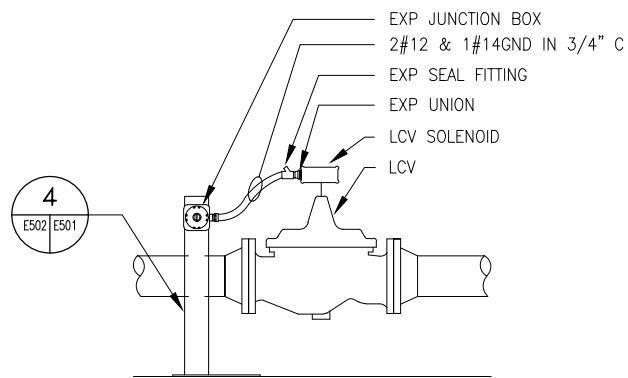
1. PROVIDE STOP PUSHBUTTON, START PUSHBUTTON, AND RUN PILOT LIGHTS WITH EACH STARTER.
2. ALL CONTACTS SHOWN IN POSITION WHEN NO POWER IS APPLIED TO SYSTEM.
3. INTRINSICALLY SAFE RELAYS AND CIRCUITS SHALL COMPLY WITH NEC ARTICLE 504. RELAYS AND CABLE SHALL BE SELECTED TO INSURE VOLTAGE, CURRENT, INDUCTANCE AND CAPACITANCE REQUIREMENTS OF INTRINSICALLY SAFE RELAYS ARE MET.



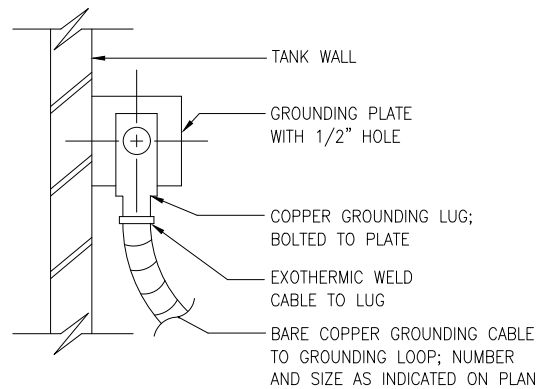
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DETAIL - FILTER SEPARATOR GROUNDING
E103 E502 SCALE: NTS



2
DETAIL - TYPICAL GROUND CABLE CONNECTIONS
E103 E502 SCALE: NTS



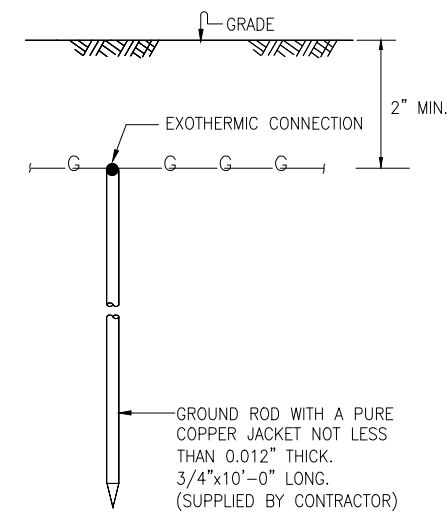
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DETAIL - LOADING CONTROL VALVE SOLENOID CONNECTION
E502 E501 SCALE: NTS



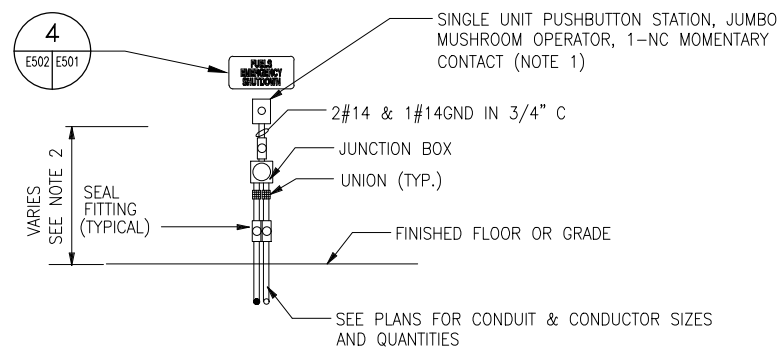
5
DETAIL TANK GROUND CONNECTION
E502 E103 SCALE: NTS

GENERAL NOTES

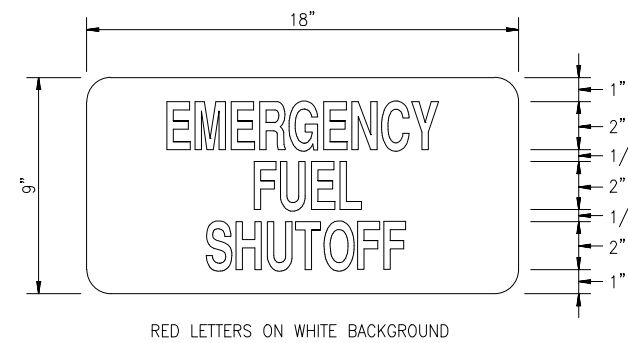
1. PROVIDE OPERATORS & ENCLOSURES SUITABLE FOR CONTROL STATION LOCATION: EXPLOSION-PROOF (NEMA 7) FOR HAZARDOUS CLASSIFIED LOCATIONS; WEATHERPROOF (NEMA 4) FOR OUTDOOR NON-HAZARDOUS LOCATIONS; AND GENERAL PURPOSE (NEMA 12) FOR INDOOR NON-HAZARDOUS LOCATIONS.
2. ALL MOUNTING HARDWARE SHALL BE CORROSION RESISTANT. WALL, POLE OR COLUMN MOUNT STATIONS WHERE INDICATED. PROVIDE 4" GALVANIZED STEEL MOUNTING CHANNEL FOR FREE-STANDING EFSO STATIONS, EMBEDDED IN 12" DIAMETER x 24" DEEP CONCRETE FOUNDATION. TOP OF EFSO STATIONS SHALL BE 48" AFF. MOUNT ALL OTHER STATIONS AT 72" AFF.
3. SEE E-001 FOR LEGEND, ABBREVIATIONS & SYMBOLS.



3
TYPICAL GROUND ROD
E502 E502 SCALE: NTS



6
EMERGENCY FUEL SHUTOFF PUSHBUTTON STATION
E502 E502 SCALE: NTS NOTE 5



7
EFSO SIGN DETAIL
E502 E502 SCALE: NTS



OKALOOSA REGIONAL AIRPORT (VPS)
OKALOOSA COUNTY, FLORIDA

THE LPA GROUP
TRANSPORTATION CONSULTANTS
2252 KILLEARN CENTER BOULEVARD
TALLAHASSEE, FLORIDA 32309
(805) 205-0460
CORPORATE LICENSE NUMBER 00004307

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Responsive People. Real Partners
3500 Parkway Lane
Suite 600
Norcross, Ga. 30092
Phone 678-336-7740
Fax 678-336-7744
Web www.pondco.com

Designer: WBC
Checked by: KJZ
Technician: [blank]
Project Number: 06026.001

Notes:

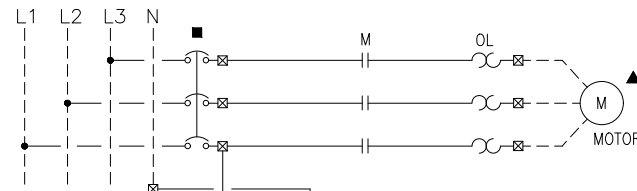
REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ELECTRICAL DETAILS

FAA A.J.P. PROJECT NUMBER:
ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: E-502

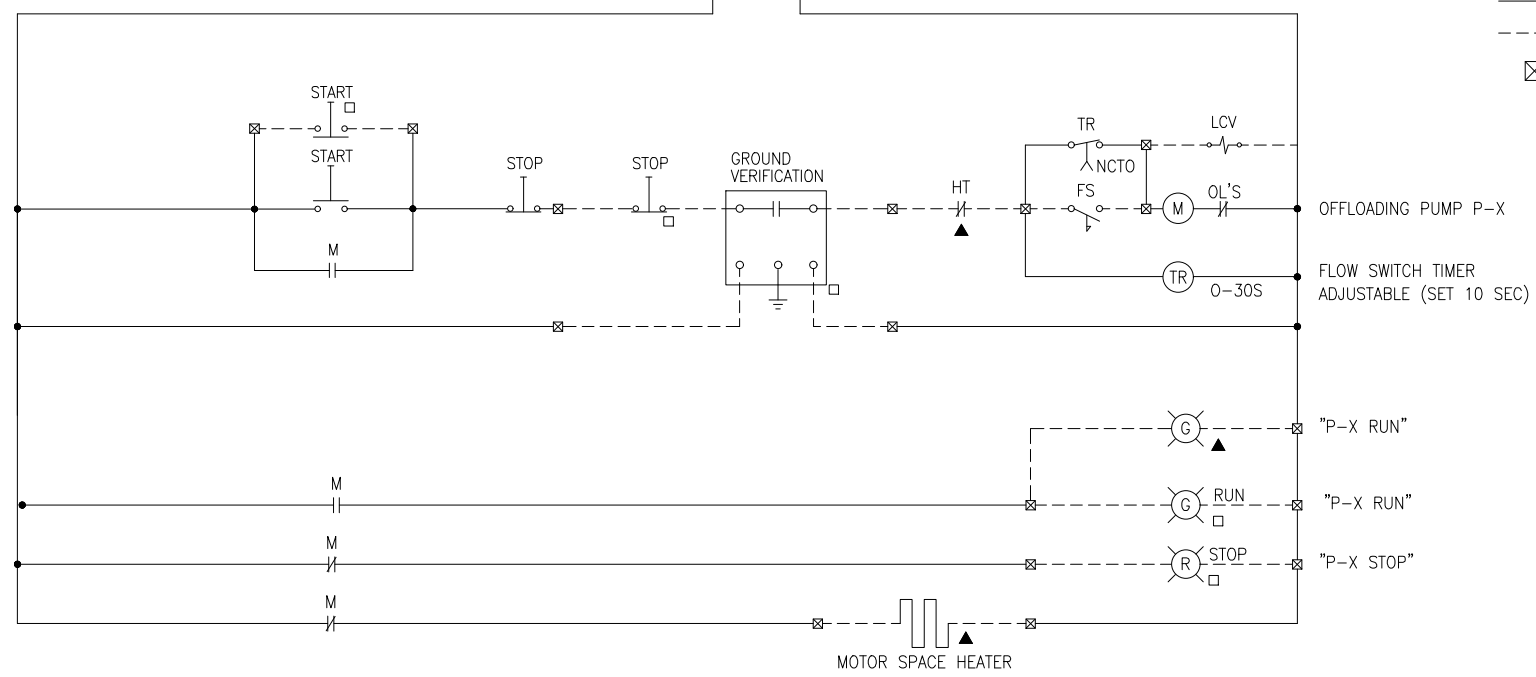


LOCATION LEGEND

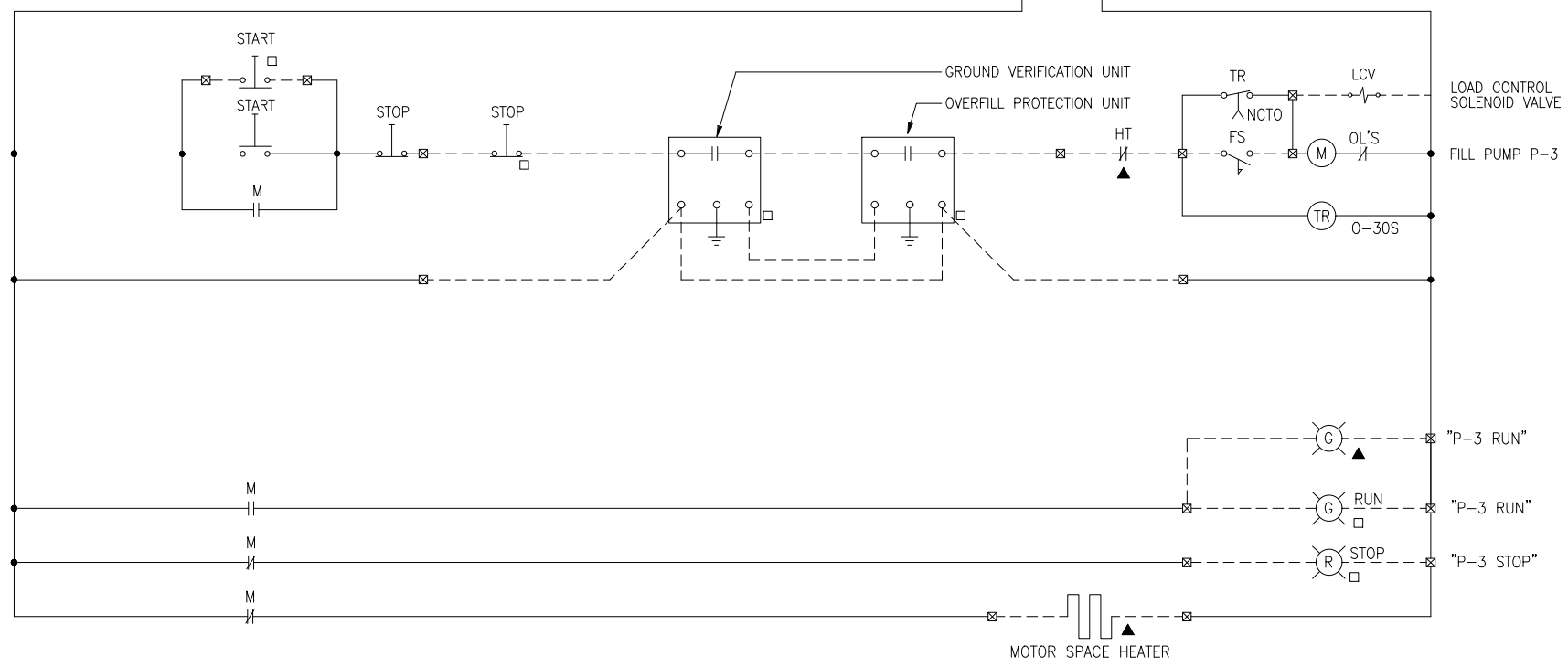
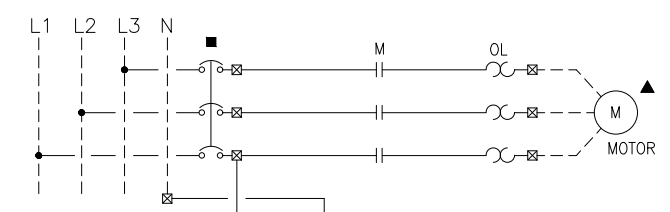
- ▲ DEVICE LOCATED NEAR PUMP
- △ DEVICE LOCATED IN CONTROL PANEL
- DEVICE LOCATED AT LOADING/OFFLOADING STATION
- DEVICE LOCATED AT ELECTRICAL PANEL
- INDICATES WIRING LOCAL TO MOTOR STARTER
- - - INDICATES WIRING REMOTE FROM MOTOR STARTER
- ⊠ TERMINAL STRIP IN MOTOR STARTER

GENERAL NOTES

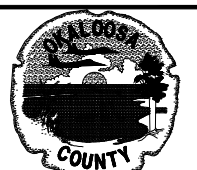
1. SEE E-001 FOR LEGEND, ABBREVIATIONS AND SYMBOLS.
2. ALL CONTACTS SHOWN IN POSITION WHEN NO POWER IS APPLIED TO SYSTEM.
3. INTRINSICALLY SAFE RELAYS AND CIRCUITS SHALL COMPLY WITH NEC ARTICLE 504. RELAYS AND CABLE SHALL BE SELECTED TO INSURE VOLTAGE, CURRENT, INDUCTANCE AND CAPACITANCE REQUIREMENTS OF INTRINSICALLY SAFE RELAYS ARE MET.
4. PROVIDE NEW STOP PUSHBUTTON, START PUSHBUTTON, AND RUN PILOT LIGHTS WITH EACH STARTER. CONTRACTOR MAY MOUNT NEW STARTER IN SEPARATE CONTROL STATION ENCLOSURE ADJACENT TO EACH STARTER.
5. ALL CONTACTS SHOWN IN POSITION WHEN NO POWER IS APPLIED TO SYSTEM.



1
CONTROL DIAGRAM -
OFFLOADING PUMP P-X
E101|E503 SCALE: NTS X=1 FOR MOGAS X=2 FOR JET-A



2
CONTROL DIAGRAM -
TRUCK FILL LOADING PUMP
E101|E503 SCALE: NTS



OKALOOSA REGIONAL AIRPORT (VPS)
OKALOOSA COUNTY, FLORIDA

THE LPA GROUP
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Fax 678-336-7744
Web www.pondco.com

Designer: WBC	Checked by: KJZ
Technician:	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ELECTRICAL DETAILS

FAA A.J.P. PROJECT NUMBER:
ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: E-503



OKALOOSA REGIONAL AIRPORT
(VPS)
OKALOOSA COUNTY, FLORIDA

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Web www.pondco.com

Designer: WBC
Checked by: KJZ
Technician: Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

Drawing Name:
ELECTRICAL DETAILS

FAA A.J.P. PROJECT NUMBER:

ENGINEER OF RECORD

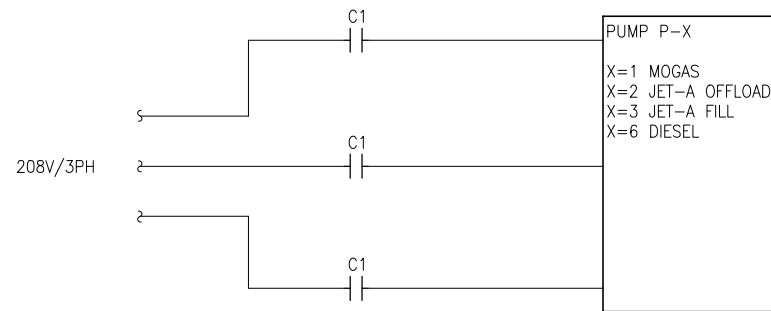
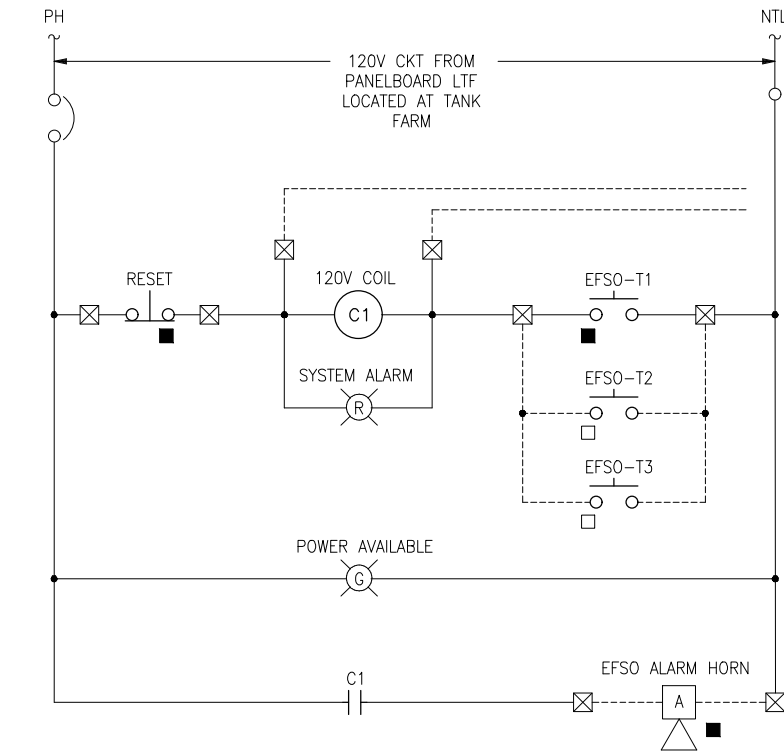
Date: 5/15/06
Scale: NTS
Drawing Number: E-504

GENERAL NOTES

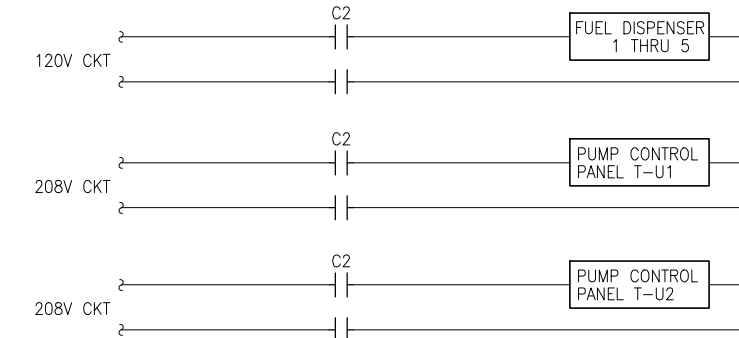
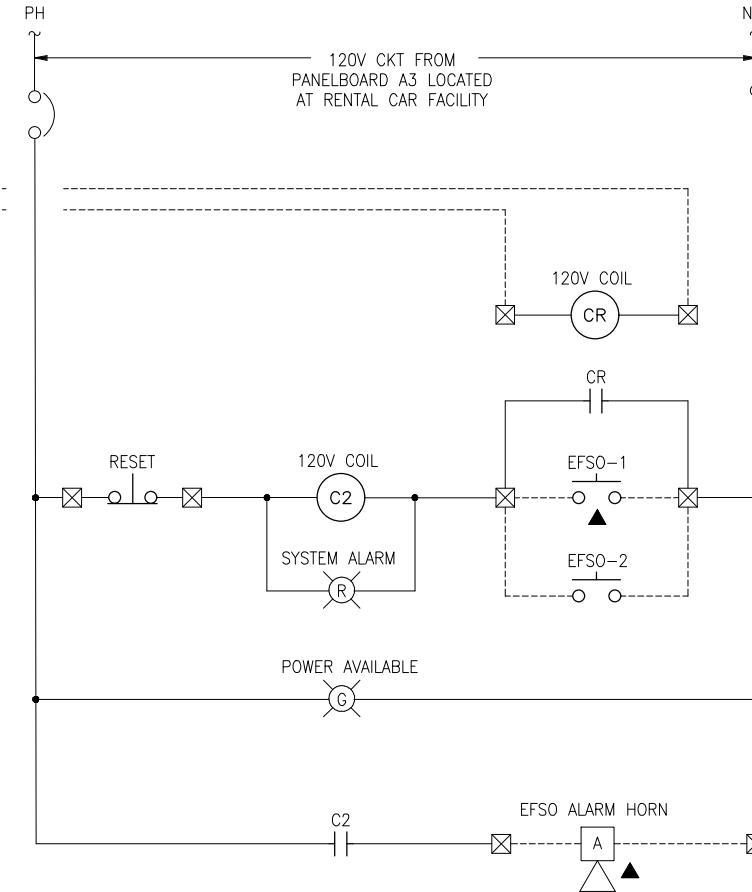
- SEE E-001 FOR LEGEND, ABBREVIATIONS AND SYMBOLS.
- ALL CONTACTS SHOWN IN POSITION WHEN NO POWER IS APPLIED TO SYSTEM.
- INTRINSICALLY SAFE RELAYS AND CIRCUITS SHALL COMPLY WITH NEC ARTICLE 504. RELAYS AND CABLE SHALL BE SELECTED TO INSURE VOLTAGE, CURRENT, INDUCTANCE AND CAPACITANCE REQUIREMENTS OF INTRINSICALLY SAFE RELAYS ARE MET.
- ACTIVATION OF THE EFSO SYSTEM AT TANK FARM WILL ACTIVATE EFSO SYSTEM AT RENTAL CAR FACILITY. ACTIVATION OF THE EFSO SYSTEM AT THE RENTAL CAR FACILITY WILL NOT ACTIVATE THE EFSO SYSTEM AT THE TANK FARM.

LOCATION LEGEND

- ▲ DEVICE LOCATED NEAR DISPENSER PUMP, RENTAL CAR FACILITY
- DEVICE LOCATED AT LOADING/OFFLOADING STATION, TANK FARM
- DEVICE LOCATED AT ELECTRICAL PANEL, TANK FARM
- INDICATES WIRING LOCAL TO RELAY CONTACTOR ENCLOSURE
- - - INDICATES WIRING REMOTE FROM RELAY CONTACTOR ENCLOSURE
- ⊠ TERMINAL STRIP IN RELAY CONTACTOR ENCLOSURE



1
CONTROL DIAGRAM EFSO SYSTEM
TANK FARM
SCALE: NTS



2
CONTROL DIAGRAM EFSO SYSTEM
RENTAL CAR FACILITY
SCALE: NTS



OKALOOSA REGIONAL AIRPORT
(VPS)
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Phone 678-336-7740
Fax 678-336-7744
Web www.pondco.com

Designer: WBC Checked by: XX
Technician: MAN Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT FUEL FARM FACILITY

Drawing Name:
ONE-LINE DIAGRAM

FAA A.J.P. PROJECT NUMBER:

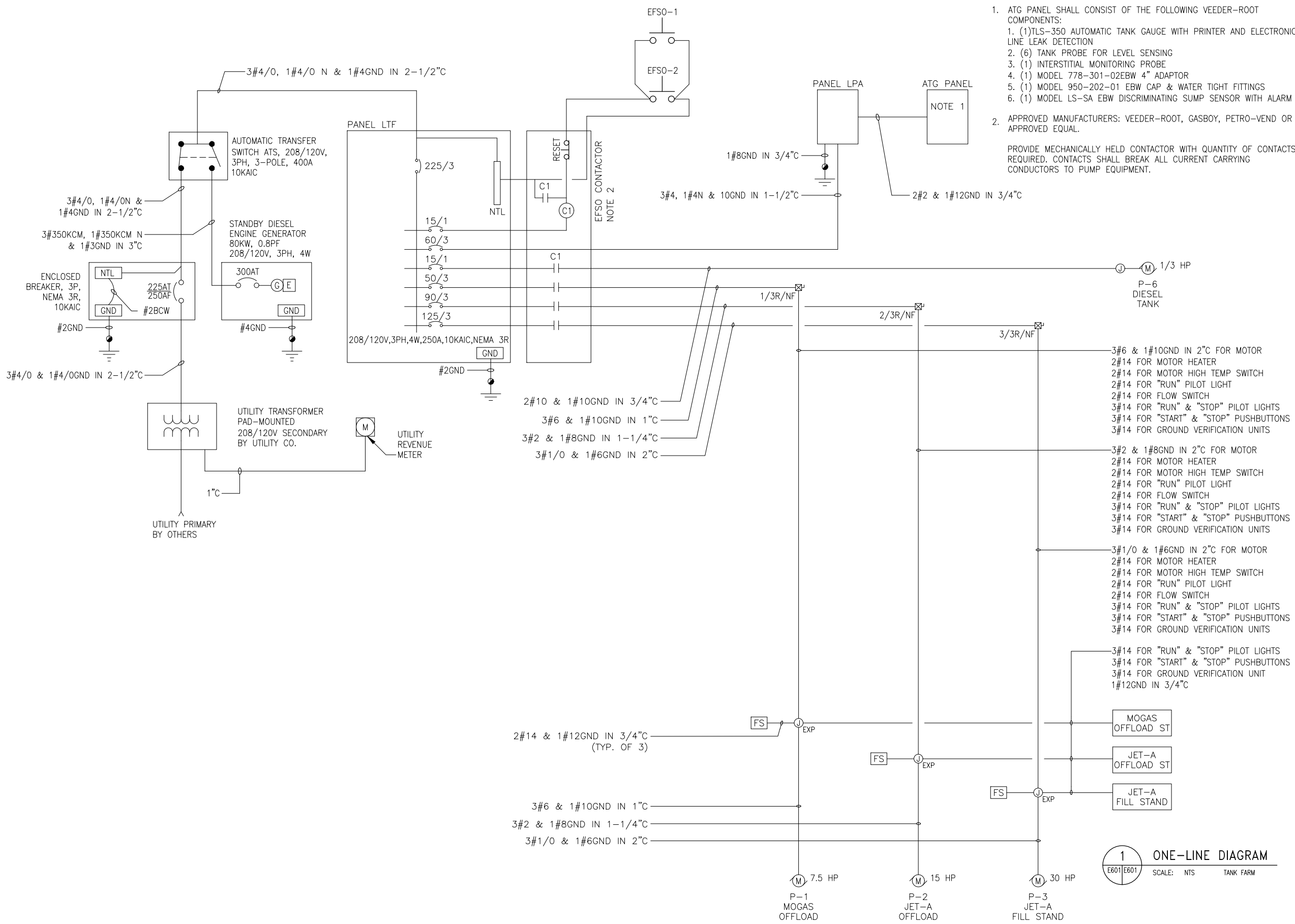
ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: E-601

GENERAL NOTES

1. ATG PANEL SHALL CONSIST OF THE FOLLOWING VEEDER-ROOT COMPONENTS:
 1. (1) TLS-350 AUTOMATIC TANK GAUGE WITH PRINTER AND ELECTRONIC LINE LEAK DETECTION
 2. (6) TANK PROBE FOR LEVEL SENSING
 3. (1) INTERSTITIAL MONITORING PROBE
 4. (1) MODEL 778-301-02EBW 4" ADAPTOR
 5. (1) MODEL 950-202-01 EBW CAP & WATER TIGHT FITTINGS
 6. (1) MODEL LS-SA EBW DISCRIMINATING SUMP SENSOR WITH ALARM
2. APPROVED MANUFACTURERS: VEEDER-ROOT, GASBOY, PETRO-VEND OR APPROVED EQUAL.

PROVIDE MECHANICALLY HELD CONTACTOR WITH QUANTITY OF CONTACTS REQUIRED. CONTACTS SHALL BREAK ALL CURRENT CARRYING CONDUCTORS TO PUMP EQUIPMENT.



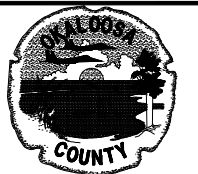
1 ONE-LINE DIAGRAM
E601 E601 SCALE: NTS TANK FARM

Y: \Marketing\Okaloosa\Fuel Farm\E601B.dwg January 24 2017 - 15:09

Y: \Marketing\Okaloosa\Fuel Farm\E602B.dwg January 24 2017 - 15:09

PANEL: LTF		VOLTAGE: 208Y/120 VOLT, 3PH, 4W		MAINS: 225A MAIN CIRCUIT BREAKER								
MOUNTING: SURFACE, NEMA 3R				MINIMUM AIC RATING: 10 KAIC								
DEVICE	BRANCH CIRCUIT		PHASE LOAD (VA)				BRANCH CIRCUIT		DEVICE			
AMP TRIP	POLES	DESIGNATION	CONN. VA	NO.	A	B	C	NO.	CONN. VA	DESIGNATION	POLES	AMP TRIP
				1	0	X	X	2		SPACE		
50	3	P-1 MOGAS	9100	3	X	9100	X	4		SPACE		
				5	X	X	0	6		SPACE		
				7	0	X	X	8		SPACE		
90	3	P-2 JP-8	17400	9	X	17400	X	10		SPACE		
				11	X	X	0	12		SPACE		
				13	0	X	X	14		SPACE		
125	3	P-3 FILL STAND	33100	15	X	33100	X	16		SPACE		
				17	X	X	0	18		SPACE		
				19	0	X	X	20		SPACE		
15	3	P-6 DIESEL TANK	900	21	X	900	X	22		SPACE		
				23	X	X	0	24		SPACE		
				25	0	X	X	26		SPACE		
	3	SPACE		27	X	0	X	28		SPACE		
				29	X	X	0	30		SPACE		
				31	0	X	X	32		SPACE		
	3	SPACE		33	X	0	X	34		SPACE		
				35	X	X	0	36		SPACE		
				37	0	X	X	38		SPACE		
	3	SPACE		39	X	0	X	40		SPACE		
				41	X	X	0	42		SPACE		
TOTAL CONNECTED VA					0	60500	0					
						60500						
PANEL: LTF		NOTES:										

PANEL: LPA		VOLTAGE: 208Y/120 VOLT, 3PH, 4W		MAINS: 60 AMP MAIN BREAKER								
MOUNTING: SURFACE, NEMA 1				MINIMUM AIC RATING: 10 KAIC								
DEVICE	BRANCH CIRCUIT		PHASE LOAD (VA)				BRANCH CIRCUIT		DEVICE			
AMP TRIP	POLES	DESIGNATION	CONN. VA	NO.	A	B	C	NO.	CONN. VA	DESIGNATION	POLES	AMP TRIP
1	20	LIGHTS	260	1	6200	X	X	2	5940	TWAC-1	2	45
1	20	RECEPTACLES	600	3	X	6540	X	4	5940	TWAC-1		
1	20	RECEPTACLES	600	5	X	X	600	6				
1	20	ATG PANEL	500	7	500	X	X	8				
				9	X	0	X	10				
				11	X	X	0	12				
TOTAL CONNECTED VA					6700	6540	600					
						13840						
PANEL: LPA		NOTES:										



OKALOOSA REGIONAL AIRPORT
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Web www.pondco.com

Designer: WBC	Checked by: KJZ
Technician: JCM	Project Number: 06026.001

Notes:

REVISIONS			
No.	Description	Date	By

Project Name:
OKALOOSA REGIONAL AIRPORT
FUEL FARM FACILITY

Drawing Name:
PANEL BOARD
SCHEDULES

FAA A.I.P. PROJECT NUMBER:

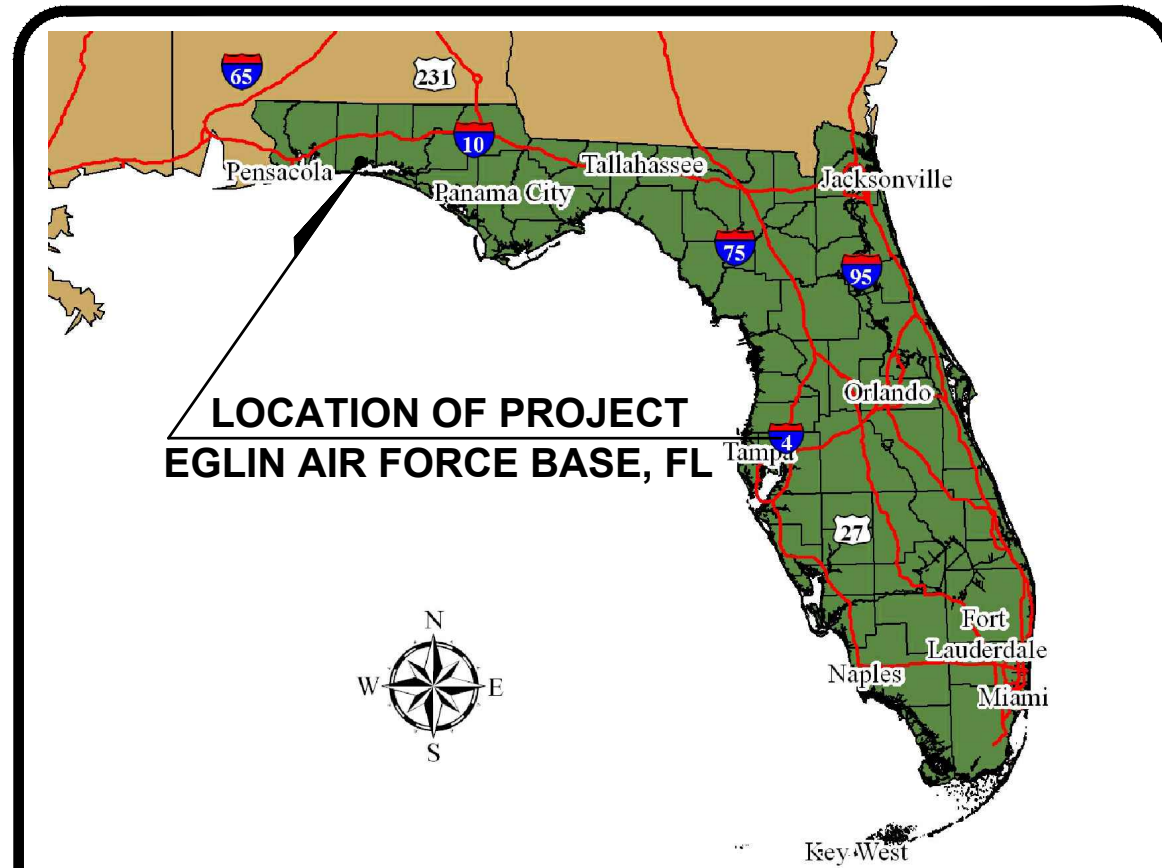
ENGINEER OF RECORD

Date: 5/15/06
Scale: NTS
Drawing Number: E-602

DESIGN DRAWINGS FOR:

FUEL FARM EXPANSION

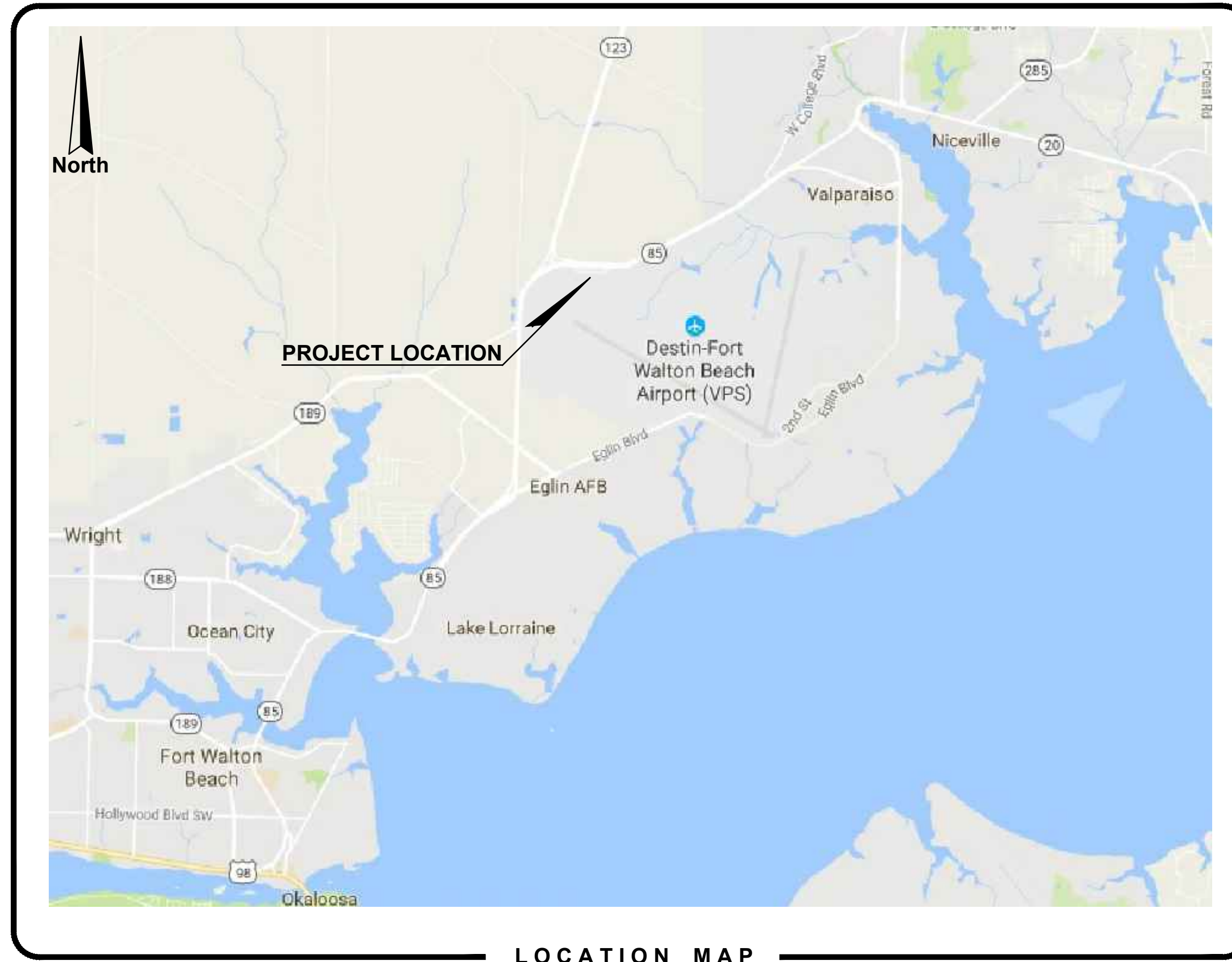
DESTIN-FORT WALTON BEACH AIRPORT (VPS)
EGLIN AIR FORCE BASE, FLORIDA



LOCATION OF PROJECT
EGLIN AIR FORCE BASE, FL



PROJECT LOCATION
VICINITY MAPS
N.T.S.

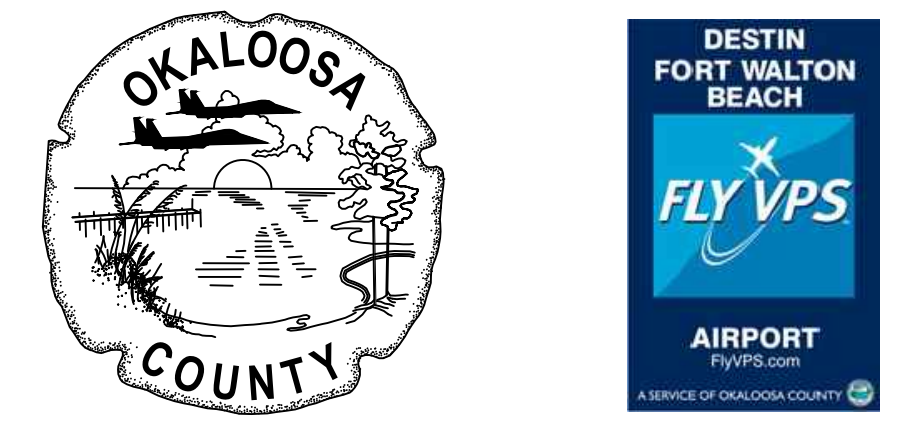


LOCATION MAP
N.T.S.

DRAWN BY: S.M.M
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019
PROJECT NO. 2017.050.02

REVISIONS			
NO.	DATE	DESCRIPTION	SHEETS

OWNER



Okaloosa County Airports
1701 State Road 85 North
Eglin Air Force Base, FL 32542
Phone: (850) 651-7160
Fax: (850) 651-7164

Airports Director: TRACY STAGE, A.A.E.
Projects and GA Manager: CHAD ROGERS, P.E.

INDEX OF DRAWINGS

SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE
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C-002	GENERAL NOTES	P-103	PUMP ISLAND ENLARGED PLAN - NEW WORK
C-003	CONTRACTOR ACCESS PLAN	P-104	JET A TANK SECTION 25,000 GAL. (TYPE 2)
C-004	CIVIL SITE IMPROVEMENTS	P-105	DETAILS
S-001	GENERAL NOTES	E-001	ELECTRICAL GENERAL NOTES AND LEGEND
S-002	GENERAL NOTES	E-002	ELECTRICAL DETAILS
S-100	NEW TANK FOUNDATION PLAN	E-003	HAZARDOUS LOCATION DETAILS & PANEL SCH.
S-101	NEW PUMP ISLAND FOUNDATION PLAN	E-004	POWER RISER
S-102	NEW WASTE TANK FOUNDATION PLAN	E-101	DEMOLITION ELECTRICAL SITE PLAN
S-200	REINFORCED CONCRETE DETAILS	E-102	NEW WORK PARTIAL ELECTRICAL SITE PLAN
S-201	PIPE SUPPORT STRUCTURAL DETAILS	E-103	NEW WORK PARTIAL ELECTRICAL SITE PLAN
S-202	ACCESS LADDER STRUCTURAL DETAILS	E-104	NEW WORK ELECTRICAL GROUNDING PLAN
P-101	MECHANICAL SITE PLAN		

ENGINEERS



AVCON, INC.
ENGINEERS & PLANNERS
320 BAYSHORE DRIVE, SUITE A - NICEVILLE, FL 32578-2425
OFFICE: (850) 678-0050 - FAX: (850) 678-0040
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

RECORD DRAWINGS

N:\NICEVILLE-PROJECTS\050-OKALOOSA COUNTY AIRPORTS\2017.050.02 - FUEL FARM EXPANSION\000 CAD February 5, 2019

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING, SIDEWALKS, PAVEMENTS, CURBS, AND SOD NOT SPECIFIED FOR REMOVAL IN THESE PLANS. ANY DAMAGE TO THE EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR AT NO COST TO THE OWNER. UNLESS OTHERWISE SPECIFIED HEREIN.
2. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS: OKALOOSA COUNTY, FDOT, FAA, NWFWD, AND FDP.
3. THIS DESIGN HAS BEEN BASED UPON FIELD SURVEY BY NOBLES CONSULTING GROUP GEOTECHNICAL INFORMATION PROVIDED BY NOVA ENGINEERING AND ENVIRONMENTAL, LLC.

AVCON INC. MAKES NO ASSURANCES REGARDING THE ACCURACY OF SUCH SURVEY OR GEOTECHNICAL EVALUATION.
4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUB-SURFACE CONDITIONS, THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
8. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
9. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
10. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S AGENT.
11. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.
12. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
14. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.
15. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORMWATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
16. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
 - A. ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
 - B. ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS; AND
 - C. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.
 - D. CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS ON AIRPORT ACCESS ROADS AT ALL TIMES.
17. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
18. ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 16.1(B) AND 16.1(C) CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.

19. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
20. THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
21. PERMANENT OPENINGS USED AS THOROUGHFARES FOR THE INTRODUCTION OF WORK AND MATERIALS TO THE STRUCTURE SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR. OWNER RETAINS THE AUTHORITY, BUT ASSUMES NO DUTY, TO ESTABLISH STANDARDS OF PROTECTION, AND TO REVIEW THE EFFICIENCY OF PROTECTIVE MEASURES TAKEN BY THE CONTRACTOR.
22. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.
23. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
24. THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
25. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL GOVERN.
26. THE CONTRACTOR SHALL IMPLEMENT THE PROPOSED EROSION CONTROL PLAN TO MINIMIZE EROSION AND ENSURE FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL PROVIDE AS-BUILTS ENSURING THE STORMWATER MANAGEMENT SYSTEM IS OPERATING AS DESIGNED.
27. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED PARAGRAPH 20.8) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.
28. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
29. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS PARAGRAPH 28.7.
30. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEAN-UP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THIS SECTION.
31. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
32. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING.
33. IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE HAZARDOUS MATERIAL REQUIREMENTS, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THIS PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.

34. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYL (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
35. THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
36. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND OTHER RELATED COSTS.

SECURITY NOTES:

1. GENERAL – THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED IN THE CONTRACT MANUAL. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE FIELD REPRESENTATIVE, THE NAME OF THE "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
2. CONSTRUCTION SECURITY COMMITTEE – A COMMITTEE SHALL BE ESTABLISHED CONCURRENT WITH THE LIFE OF THIS CONTRACT TO MONITOR AND COORDINATE SECURITY PROVISIONS, ADOPT NEW SECURITY PROVISIONS IF REQUIRED AND REVIEW AND APPROVE ALL MATTERS OF AIRPORT SECURITY RELATING TO THIS CONTRACT. MEETINGS SHALL BE SCHEDULED BY THE FIELD REPRESENTATIVE. COMMITTEE MEMBERSHIP SHALL INCLUDE THE CONTRACTOR SECURITY OFFICER, FIELD REPRESENTATIVE AND AIRPORT OPERATIONS.
3. CONTRACTOR PERSONNEL SECURITY ORIENTATION – THE CONTRACTOR SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY THE CONSTRUCTION SECURITY COMMITTEE. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
4. ACCESS TO THE SITE – CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS DEPOSITED ALONG ANY ACCESS ROAD AS A RESULT OF THE CONSTRUCTION TRAFFIC. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL NOT BE PERMITTED.
5. MATERIALS DELIVERY TO THE SITE – ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE WILL USE THE ACCESS POINT AT THE CONTRACTOR'S STAGING AREA AS A DELIVERY ADDRESS AT THE AIRPORT. ALL ASSOCIATED COSTS SHALL BE INCIDENTAL TO VARIOUS OTHER BID ITEMS.
6. CONSTRUCTION AREA LIMITS – THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE FIELD REPRESENTATIVE. THE CONTRACTOR SHALL ERECT AND MAINTAIN SUITABLE FENCING, SIGNAGE AND WARNING DEVICES VISIBLE FOR BOTH DAY/NIGHT USE TO DELINEATE THE PERIMETER OF ALL SUCH AREAS.
7. VEHICLE IDENTIFICATION – THE CONTRACTOR, THROUGH THE CONTRACTOR SECURITY OFFICER, SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUBCONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. THE CONTRACTOR SECURITY OFFICER WILL REQUIRE EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN (WITH NOT LESS THAN 6" LETTERING) ON BOTH SIDES OF VEHICLE. THE CONTRACTOR SHALL PROVIDE A CURRENT LISTING OF VEHICLES AND COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRPORT TO THE FIELD REPRESENTATIVE. CONTRACTOR'S EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTOR'S STAGING AREA OR CONTRACTOR'S EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.
8. OPERATORS OF VEHICLES MUST POSSESS A VALID DRIVER'S LICENSE, FOR THE VEHICLE BEING OPERATED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EMPLOYEES DRIVING WITHIN THE AOA, AND SHALL LIMIT EMPLOYEE ACCESS TO RUNWAY AND TAXIWAY OBJECT FREE AREAS TO THOSE WHOSE FUNCTIONS ARE ABSOLUTELY NECESSARY. DRIVERS SHALL MONITOR BOB SIKES AIRPORT UNICOM FREQUENCY AT ALL TIMES WHEN DRIVING WITHIN ANY RUNWAY OR TAXIWAY OBJECT FREE AREA, AND SHALL BE PREPARED TO LEAVE THE AREA IMMEDIATELY IF NECESSARY.
9. THE COST OF PROVIDING FLAGGER AND SECURITY GUARDS SHALL BE INCIDENTAL AND INCLUDED IN THE VARIOUS CONTRACT ITEMS.
10. OPEN FLAME – OPEN FLAME, WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN TAKEN AND THE PROCEDURE APPROVED BY AIRPORT OPERATIONS.
11. NO SMOKING SHALL BE ALLOWED WITHIN THE WORK AREA.
12. SAFETY GUIDELINES – IN THE INTEREST OF SAFETY, THE CONTRACTOR IS ALSO DIRECTED TO ACQUAINT HIS/HER EMPLOYEES WITH THE PROVISIONS OF THE FOLLOWING FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS:

150/5370-2E	-	OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
150/5210-5C	-	PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT
150/5200-18C	-	AIRPORT SAFETY SELF-INSPECTION
150/5340-1J	-	STANDARDS FOR AIRPORT MARKINGS
ORDER SW 5200.5	-	SAFETY REQUIREMENTS ON AIRPORTS DURING AGENCY FUNDED CONSTRUCTION ACTIVITY
13. NO EQUIPMENT OR MATERIALS SHALL EXCEED A HEIGHT OF 35 FT WITHOUT PRIOR APPROVAL FROM ENGINEER.

OKALOOSA COUNTY AIRPORTS



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

GENERAL NOTES

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SCALE: AS NOTED

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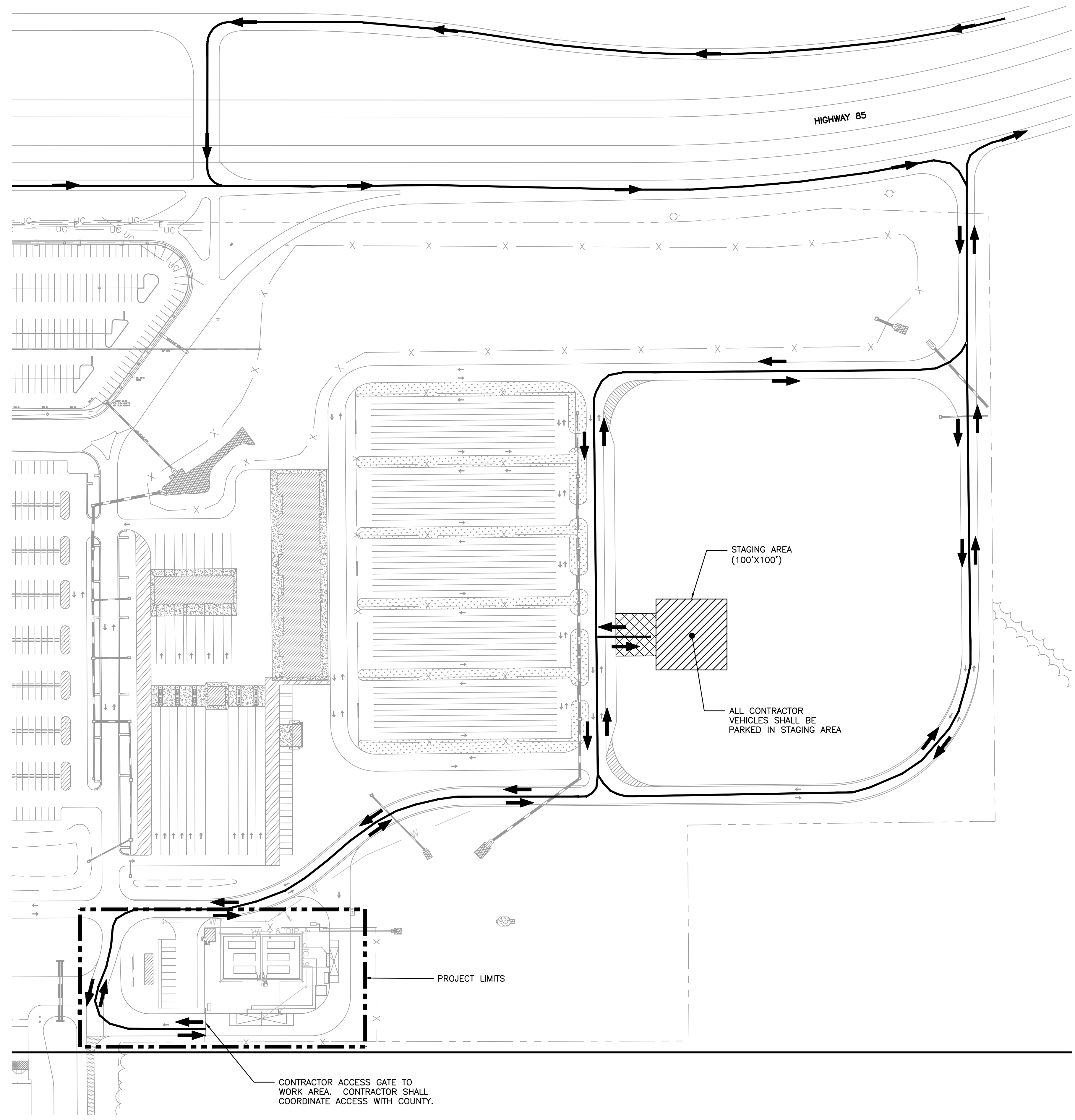
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DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER

C-002

N:\NICEVILLE-PROJECTS\050-OKALOOSA COUNTY AIRPORTS\2017.050.02 - FUEL FARM EXPANSION\000 CAD February 5, 2019



LEGEND

- ACCESS ROUTE
- STAGING AREA
- PROJECT LIMITS
- ANTI-SOIL TRACKING MATERIAL

North

0 40 80 160

GRAPHIC SCALE IN FEET

- NOTES:**
1. IN THE EVENT TEMPORARY HAUL ROUTES ARE REQUIRED, THE CONTRACTOR SHALL CONSTRUCT HAUL ROUTES CAPABLE OF ADEQUATELY SUPPORTING HAULING UNITS. WHEN A HAULING ROUTE IS NO LONGER NEEDED, THE AREA (INCLUDING ALL NEW PAVEMENT DAMAGED FROM HAUL ROUTE CROSSINGS) SHALL BE RESTORED TO ITS ORIGINAL OR PROPOSED CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. FENCING, DRAINAGE, GRADING, AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE AIRPORT PRIOR TO WORK.
 2. CONTRACTOR SHALL COORDINATE STAGING AREA WITH OWNER'S REPRESENTATIVE ON SITE.
 3. CONTRACTOR SHALL RESTORE CONTRACTOR STAGING AREA TO ITS ORIGINAL OR BETTER CONDITION AT HIS/HER OWN EXPENSE.
 4. SILT FENCE SHALL BE INSTALLED COMPLETELY AROUND STAGING AREA.
 5. CONTRACTOR IS SOLELY RESPONSIBLE FOR SECURING MATERIALS IN STAGING AREA. OKALOOSA COUNTY IS NOT RESPONSIBLE FOR ANY LOST OR DAMAGED MATERIALS OR EQUIPMENT.

OKALOOSA COUNTY AIRPORTS

AVCON

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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

CONTRACTOR ACCESS PLAN

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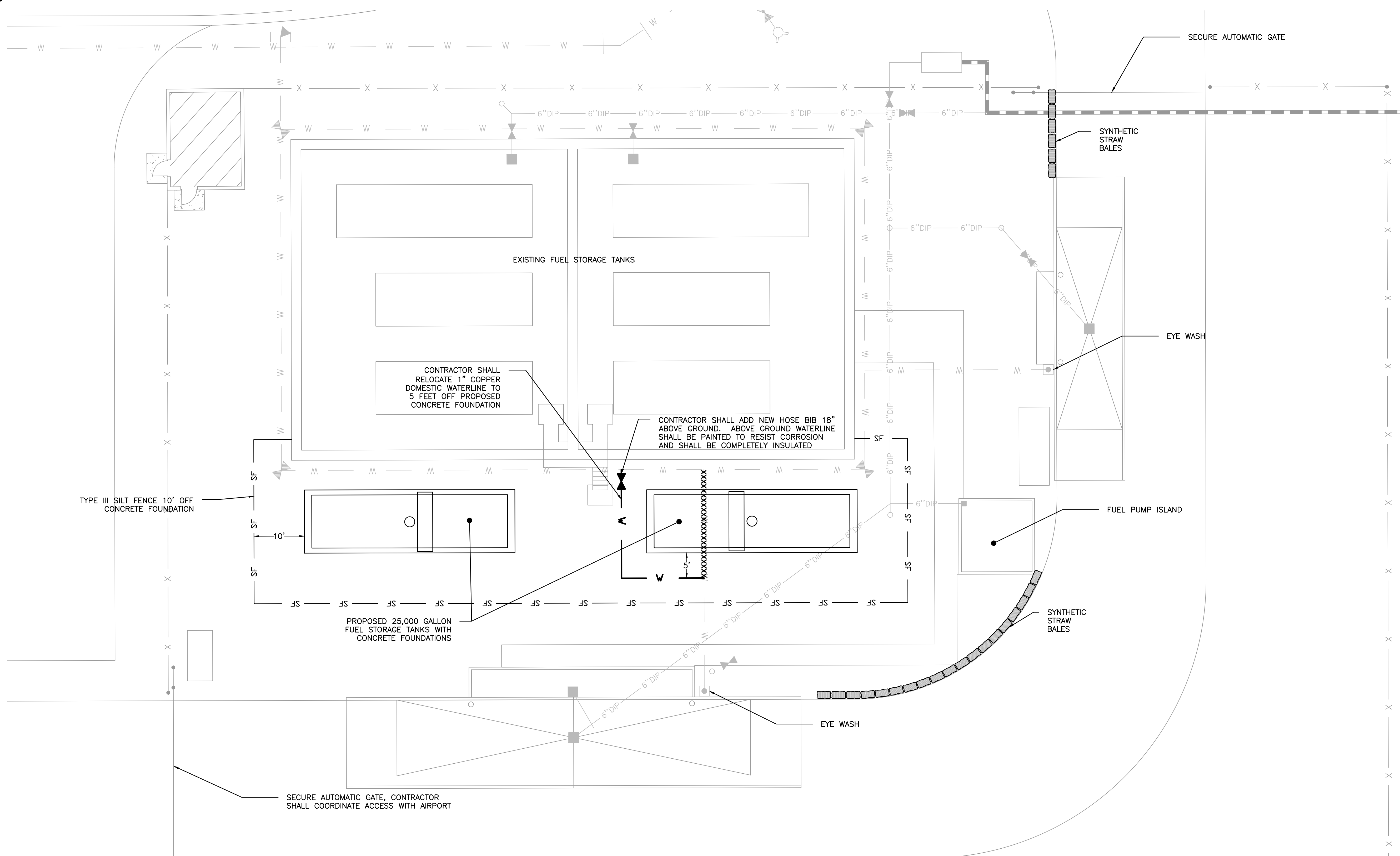
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DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER

C-003

N:\NICEVILLE-PROJECTS\050-OKALOOSA COUNTY AIRPORTS\2017.050.02 - FUEL FARM EXPANSION\000 CAD February 5, 2019



NOTE:

1. CONTRACTOR SHALL HAND-DIG AND LOCATE ALL EXISTING UTILITIES WITHIN WORK AREA AND SHALL PROTECT UTILITIES PRIOR TO BEGINNING WORK.
2. SEE PLUMBING, ELECTRICAL, AND STRUCTURAL SHEETS FOR PROJECT DETAILS.
3. NO EQUIPMENT SHALL EXCEED 35 FEET (IN HEIGHT) WITHOUT PRIOR APPROVAL OF THE COUNTY.
4. CONTRACTOR SHALL SOD ALL DISTURBED AREAS.
5. CONTRACTOR SHALL COORDINATE APPROVAL OF CRANE LOCATION WITH AIRPORT PRIOR TO DELIVERING CRANE TO SITE.

LEGEND

XXXXXXXXXXXXX ITEMS TO REMOVE

— W — 1" COPPER DOMESTIC WATER LINE

— SF — SILT FENCE TYPE III

SYNTHETIC STRAW BALES (FDOT INDEX 101)

North

GRAPHIC SCALE IN FEET

OKALOOSA COUNTY AIRPORTS

DESTIN FORT WALTON BEACH

AIRPORT

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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

CIVIL SITE IMPROVEMENTS

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APPROVED BY:	V.C.L.
DATE:	FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER

C-004

GENERAL NOTES

1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING GOVERNING DESIGN CODES:
 - A. FLORIDA BUILDING CODE 2014 EDITION
 - B. AISC STEEL CONSTRUCTION MANUAL (13TH EDITION)
 - C. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, (ACI 318-11)
 - D. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10)
 - E. STRUCTURAL WELDING CODE AWS D1.1, 2008
2. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. USE THESE NOTES IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
3. SEE PROJECT SPECIFICATIONS FOR TESTING.
4. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS; INCLUDING DIMENSIONS, AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. ANY AND ALL DISCREPANCIES SHALL BE SUBMITTED IN WRITING TO ARCHITECT / ENGINEER. DO NOT MODIFY OR CHANGE THE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
5. IT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO LOCATE ANY AND ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
6. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. ANY QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT / ENGINEER.
5. DESIGN LOAD CRITERIA:
 - A. STRUCTURE RISK CATEGORY (IBC 1604.5) IV
 - B. GRAVITY LOADS:
 - C. TANK WEIGHT W/ FUEL 240,000 LB
 - D. WIND LOADS:
 - ULTIMATE DESIGN WIND SPEED 153 MPH
 - NOMINAL DESIGN WIND SPEED 119 MPH
 - WIND EXPOSURE CATEGORY. C
 - INTERNAL PRESSURE COEFFICIENT. ±0.18 (ENCLOSED)
6. DO NOT SCALE THE DRAWINGS, USE DIMENSIONS SHOWN ON PLAN IN CONJUNCTION WITH THE PLUMBING DOCUMENTS. IF A CONFLICT EXISTS, NOTIFY THE ENGINEER OF RECORD IN WRITING FOR RESOLUTION OF ANY AND ALL CONFLICTS.

SHALLOW FOUNDATIONS

1. FOUNDATION DESIGN HAS BEEN PERFORMED BASED ON THE REPORT BY LMJ, FILE #16-243 AND SOIL BEARING CAPACITY SHALL NOT EXCEED 2000 PSF FOR FOOTINGS. THE SOIL SHALL BE COMPACTED TO MINIMUM REQUIREMENTS SET FORTH IN THE REPORT BY LMJ BEFORE PLACEMENT OF CONCRETE.
2. IF BEARING SOIL IS DISTURBED DURING FOUNDATION PREPARATION, THE CONTRACTOR SHALL RECOMPACT TO REQUIRED DENSITY, AS DEFINED BY THE GEOTECHNICAL ENGINEER.
3. ALL WALLS AND COLUMNS SHALL BE CENTERED ON THE FOOTINGS U.N.O., SEE PLANS
4. DO NOT EXCAVATE FOR ANY PURPOSE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOOTING OR FOUNDATION UNLESS FOOTING OR FOUNDATION IS FIRST PROPERLY PROTECTED AGAINST SETTLEMENT.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS NOT TO CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

REINFORCED CONCRETE NOTES

1. ALL CAST-IN-PLACE CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-11 AND ACI 301, EXCEPT AS MODIFIED BY THE PROJECT CONSTRUCTION DOCUMENTS. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 03300.
2. ALL CONCRETE SHALL MEET THE PROJECT SPECIFICATIONS AND SHALL DEVELOP COMPRESSIVE STRENGTHS AS FOLLOWS (28 DAY STRENGTH):
 - A. NORMAL WEIGHT CONCRETE (145 PCF)
 - B. FOUNDATION, WALLS, SLAB ON GRADE 4000 PSI

PROVIDE CURRENT (MAX. 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX SUBMITTED IN ACCORDANCE WITH ACI 318-11.
3. ALL REINFORCING BARS FOR CONCRETE SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND MEET THE REQUIREMENTS OF ASTM A-615. FOR PLACEMENT OF REINFORCING CONFORM TO ACI-301, ACI-315, ACI-318, AND CRSI "MANUAL OF STANDARD PRACTICE". ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED, AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. PROVIDE CLASS "B" LAP SPLICE FOR CONTINUOUS BARS. USE THE FOLLOWING COVER:
 - A. CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT, U.N.O.
 - CONCRETE CAST AGAINST EARTH. 3"
 - CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
 - #5 REINFORCEMENT AND SMALLER. 1 1/2"
 - REINFORCEMENT LARGER THAN #5 2"
 - CONCRETE POURED IN FORMS BUT NOT EXPOSED TO WEATHER OR EARTH:
 - #11 REINFORCEMENT AND SMALLER 3/4"
4. NO CONDUIT PLACED IN CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBED IN A SLAB THAT IS LESS THAN 4" THICK. MINIMUM CLEAR DISTANCE SHALL BE IN ACCORDANCE WITH ACI 318.
5. ALL REINFORCING BARS, ANCHOR BOLTS, DOWELS AND OTHER CONCRETE INSERTS SHALL BE SECURED ADEQUATELY IN POSITION PRIOR TO PLACEMENT OF CONCRETE. CONTRACTOR SHALL USE TEMPLATES TO INSURE ACCURATE PLACEMENT OF ANCHOR BOLTS, DOWELS, ETC.
6. ALL CONCRETE SHALL BE CONSOLIDATED BY USE OF A MECHANICAL VIBRATOR OR OTHER MEANS APPROVED BY THE ENGINEER.
7. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. CONCRETE SHALL BE PLACED IN ITS FINAL POSITION WITHIN 90 MINUTES AFTER ADDITION OF BATCH WATER. CONCRETE SHALL BE DISCARDED IF THE FOREGOING ELAPSED TIME IS EXCEEDED.

STRUCTURAL SUBMITTALS

1. IN ADDITION TO SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND CONSTRUCTION DOCUMENTS, THE FOLLOWING "STRUCTURAL SUBMITTALS" ARE REQUIRED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
 - A. REINFORCED CONCRETE LAYOUT AND DETAILS
 - B. NEW STRUCTURAL STEEL FRAMING, INCLUDING LADDER, CATWALK, ETC.
2. ALL STRUCTURAL SUBMITTALS SHALL BE PREPARED AND SUBMITTED TO THE E.O.R.

STRUCTURAL STEEL

1. REFERENCE STANDARDS: STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL AND THE AISC CODE OF STANDARD PRACTICE (REFERENCED EDITION) WITH EXCEPTION NOTED IN THE PROJECT SPECIFICATIONS.
2. OSHA REQUIREMENTS:
 - A. THE CONTRACTOR SHALL PROVIDE ADDITIONAL ANCHORS, BOLTS, STABILIZERS, STIFFENERS, BRIDGING, BRACING, ETC. AS NECESSARY TO COMPLY WITH CURRENT OSHA REGULATIONS.
 - B. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING TO INSURE A STABLE STRUCTURE DURING THE INSTALLATION OF STRUCTURAL STEEL MEMBERS.
3. MATERIAL REQUIREMENTS OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS U.N.O.
 - A. WIDE FLANGE SHAPES ASTM 992, GRADE 50
 - B. ANGLES, CHANNELS, AND PLATES ASTM A36 OR ASTM A572, GRADE 50
 - C. HSS SECTIONS ASTM A500, GRADE "B" (Fy = 46KSI)
 - D. HIGH STRENGTH BOLTS ASTM A325 OR ASTM A490
 - E. ANCHOR BOLTS ASTM F1554, GRADE 36 (WELDABLE)
 - F. WELDING ELECTRODES AWS D1.1 E70
4. USE STRUCTURAL STEEL THAT IS FULLY WELDABLE INCLUDING WHEN WELDING BETWEEN DIFFERENT GRADES OF STEEL. SHOP WELDING SHALL BE UTILIZED IN LIEU OF FIELD WELDING WHEN OBTAINABLE.
5. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1, LATEST EDITION, PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS). USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, U.N.O. SHOW ALL SHOP WELDS ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS ON THE ERECTION DRAWINGS. WELD SIZES AND LENGTHS ARE SHOWN ON THE DRAWINGS. WELD SIZES ARE THE NET EFFECTIVE SIZE REQUIRED. INCREASE THE WIDTH OF THE WELD IF A GAP EXISTS AT FAYING SURFACES. MINIMUM FILLET WELD SIZE IS 3/16".
6. ALL SHOP AND FIELD WELDERS, WELDING OPERATORS, AND TACKERS SHALL BE CERTIFIED ACCORDING TO AWS PROCEDURES AND HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS. CERTIFICATION MUST BE CURRENT.
7. ALL JOINT WELDING PROCEDURES TO BE USED SHALL BE PREPARED BY THE FABRICATOR OR CONTRACTOR AS WRITTEN PROCEDURE SPECIFICATIONS AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR THEIR RECORD. ALL JOINT WELDING PROCEDURES SHALL BE QUALIFIED PRIOR TO USE ACCORDING TO AWS PROCEDURES.
8. A325 BOLTS:
 - A. A325 BOLTS SHALL CONFORM TO ASTM A 325 TYPE 1, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS. DO NOT USE TYPE 2 BOLTS.
 - B. PROVIDE HARDENED WASHERS CONFORMING TO ASTM F 436. PLACE HARDENED WASHERS UNDER PART BEING TURNED.
 - C. LOAD INDICATOR WASHERS OR TENSION CONTROLLED BOLTS SHALL BE USED ON ALL A325 BOLTS.
 - D. ALL BOLTS SHALL BE NEW AND DOMESTICALLY MANUFACTURED. DO NOT REUSE BOLTS. USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE, AND WELL LUBRICATED. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER OR LUBRICATED WITH JOHNSON'S STICK WAX 140.
9. FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE CUT IN FIELD OR MODIFIED WITHOUT PRIOR APPROVAL OF THE ENGINEER. SPLICING STEEL MEMBERS IS NOT PERMITTED EXCEPT WHERE EXPLICITLY SHOWN ON THE STRUCTURAL DRAWINGS OR WHERE APPROVED BY THE ENGINEER OF RECORD. SPLICES SHALL NOT OCCUR AT LOCATIONS OF MAXIMUM STRESS AND SHALL DEVELOP THE FULL CAPACITY OF THE MEMBER. SPLICE DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING WORK.
10. WHEN HOLES ARE REQUIRED IN METAL SURFACE, THEY SHALL BE CUT, DRILLED, OR PUNCHED HOLES PERPENDICULAR TO METAL SURFACE. IN NO INSTANCE IS IT ADEQUATE TO USE A FLAME TO CUT OR ENLARGE HOLES IN STRUCTURAL STEEL MEMBERS.
11. THE STEEL SUPPLIER SHALL PROVIDE ALL MISCELLANEOUS STRUCTURAL STEEL ITEMS NECESSARY TO FULFILL THE INTENT OF THE STRUCTURAL DRAWINGS WHETHER OR NOT THE ITEMS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SUCH ITEMS MAY INCLUDE BUT ARE NOT LIMITED TO EDGE ANGLES, CLOSURE PLATES, AND DECK SUPPORT FRAMING.
12. ALL EXTERIOR EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.
13. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL THAT WILL BE REQUIRED.

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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

GENERAL NOTES

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DRAWN BY: WEH
CHECKED BY: DJM
APPROVED BY: DJM
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER

S-001

CHEMICAL ADHESIVE ANCHORAGE

- ADHESIVE ANCHORS SHALL BE AS SPECIFIED ON THE CONSTRUCTION DRAWINGS OR APPROVED EQUIVALENT. ACCEPTABLE SYSTEMS SHALL INCLUDE: SIMPSON, HILTI (EPOXY OR POLYESTER RESIN ADHESIVE) ANCHORS OR APPROVED EQUIVALENT WITH DIAMETER AND EMBEDMENT LENGTH AS NOTED ON THE DRAWINGS OR IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. INSTALL ALL ANCHORAGE PER THE MANUFACTURERS RECOMMENDATIONS.
-
- DIAMETER OF HOLE SHALL BE AS RECOMMENDED BY MANUFACTURER FOR THE PARTICULAR PRODUCT SPECIFIED IN THE DRAWINGS.
- UNLESS NOTED, ANCHOR SPACING AND ANCHOR EDGE DISTANCE SHALL BE ACCORDING TO THE MANUFACTURER'S MOST CURRENT PUBLICATION IN ORDER TO DEVELOP MAXIMUM WORKING LOADS.
- DO NOT EXCEED MANUFACTURER'S MAX. RECOMMENDED TIGHTENING TORQUE.
- ALL ANCHORS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND UNDER MANUFACTURER'S SUPERVISION IN ORDER TO DEVELOP THE MOST CURRENT PUBLISHED WORKING LOADS.
- INSTALLATION OF ALL ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT.
- ALL ANCHORS INSTALLED SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL FURNISH A REPORT TO THE LICENSED DESIGN PROFESSIONAL AND BUILDING OFFICIAL THAT THE WORK COVERED BY THE REPORT HAS BEEN PERFORMED AND THE MATERIALS USED AND THE INSTALLATION PROCEDURES USED CONFORM WITH THE APPROVED CONTRACT DOCUMENTS AND THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII)
- TESTING OF EPOXIED ANCHORAGE SHALL BE REQUIRED. THE CONTRACTOR SHALL TEST A MINIMUM OF 10% OF EACH DAYS PRODUCTION AND NOT LESS THAN TWO ANCHORS. THE TEST SHALL BE ACCOMPLISHED BY A APPLYING A TENSILE LOAD OF 1000 POUNDS TO THE EMBED ANCHOR. IF ANY TEST FAILS THE LOAD TEST, ALL APPLICATIONS FOR THAT DAY SHALL BE TESTED. THE TESTING RESULTS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

EPOXY ANCHORAGE INSTALLATION NOTES

HOLE PREPARATION

- DRILL - DRILL HOLE TO SPECIFIED DIAMETER AND DEPTH.
- BLOW - REMOVE DUST FROM HOLE WITH OIL-FREE COMPRESSED AIR FOR A MINIMUM OF 4 SECONDS. COMPRESSED AIR NOZZLE MUST REACH THE BOTTOM OF THE HOLE.
- BRUSH - CLEAN WITH A NYLON BRUSH FOR A MINIMUM OF 4 CYCLES. BRUSH SHOULD PROVIDE RESISTANCE TO INSERTION. IF NO RESISTANCE IS FELT, THE BRUSH IS WORN AND MUST BE REPLACED.
- BLOW - REMOVE DUST FROM HOLE WITH OIL-FREE COMPRESSED AIR FOR A MINIMUM OF 4 SECONDS. COMPRESSED AIR NOZZLE MUST REACH THE BOTTOM OF THE HOLE.

CARTRIDGE PREPARATION

- CARTRIDGE PREPARATION SHALL INCLUDE CHECKING EXPIRATION DATE ON PRODUCT LABEL. DO NOT USE EXPIRED PRODUCT. PRODUCT IS USABLE UNTIL END OF PRINTED EXPIRATION MONTH.
- ATTACH - ATTACH PROPER NOZZLE TO CARTRIDGE. DO NOT MODIFY NOZZLE.
- INSERT - INSERT CARTRIDGE INTO DISPENSING TOOL.
- DISPENSE - DISPENSE ADHESIVE TO THE SIDE UNTIL PROPERLY MIXED (UNIFORM COLOR).

FILLING THE HOLE

- INSTALL ADHESIVE RETAINING CAP. REFER TO ADHESIVE RETAINING CAPS FOR PROPER ARC SIZE.
- FILL - FILL HOLE 1/2 - 2/3 FULL, STARTING FROM BOTTOM OF HOLE TO PREVENT AIR POCKETS. WITHDRAW NOZZLE AS HOLE FILLS UP.
- INSERT CLEAN, OIL-FREE ANCHOR, TURNING SLOWLY UNTIL THE ANCHOR CONTACTS THE BOTTOM OF THE HOLE.
- DO NOT DISTURB THREADED ROD ANCHOR UNTIL FULLY CURED. (SEE CURE SCHEDULE FOR SPECIFIC ADHESIVE IN CONTRACT DOCUMENTS AND COORDINATE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.)

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**DESTIN-FORT
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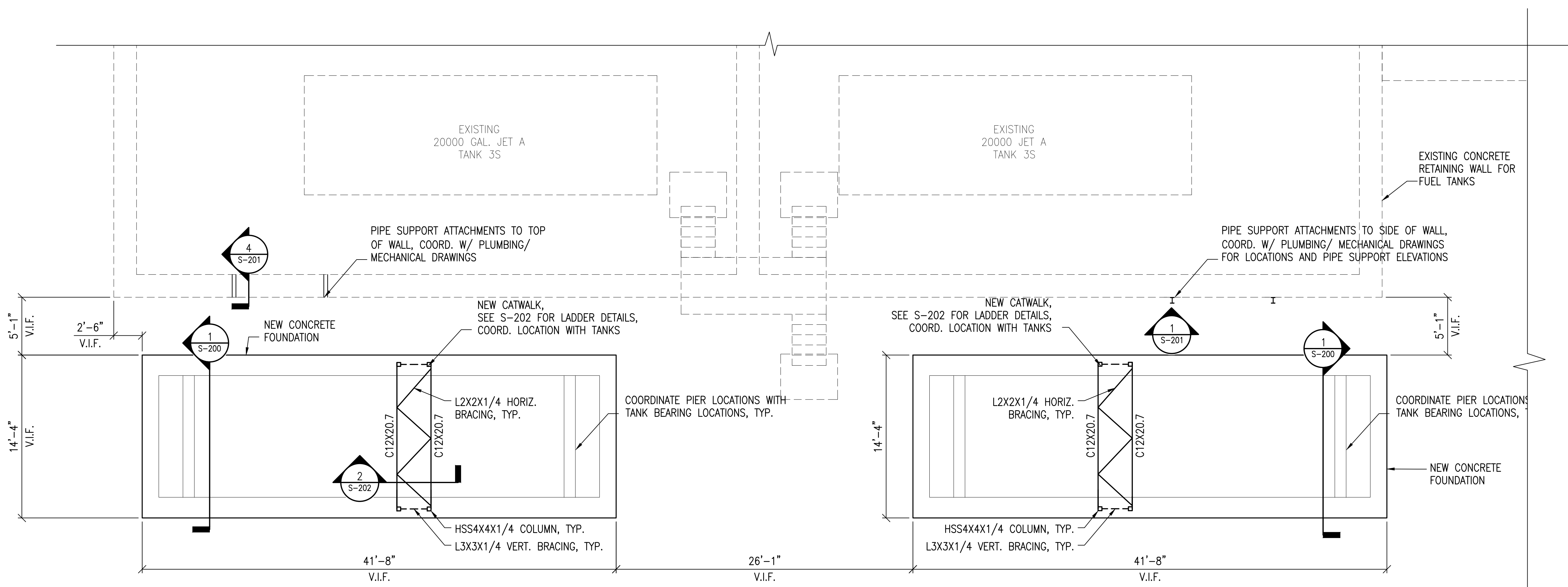
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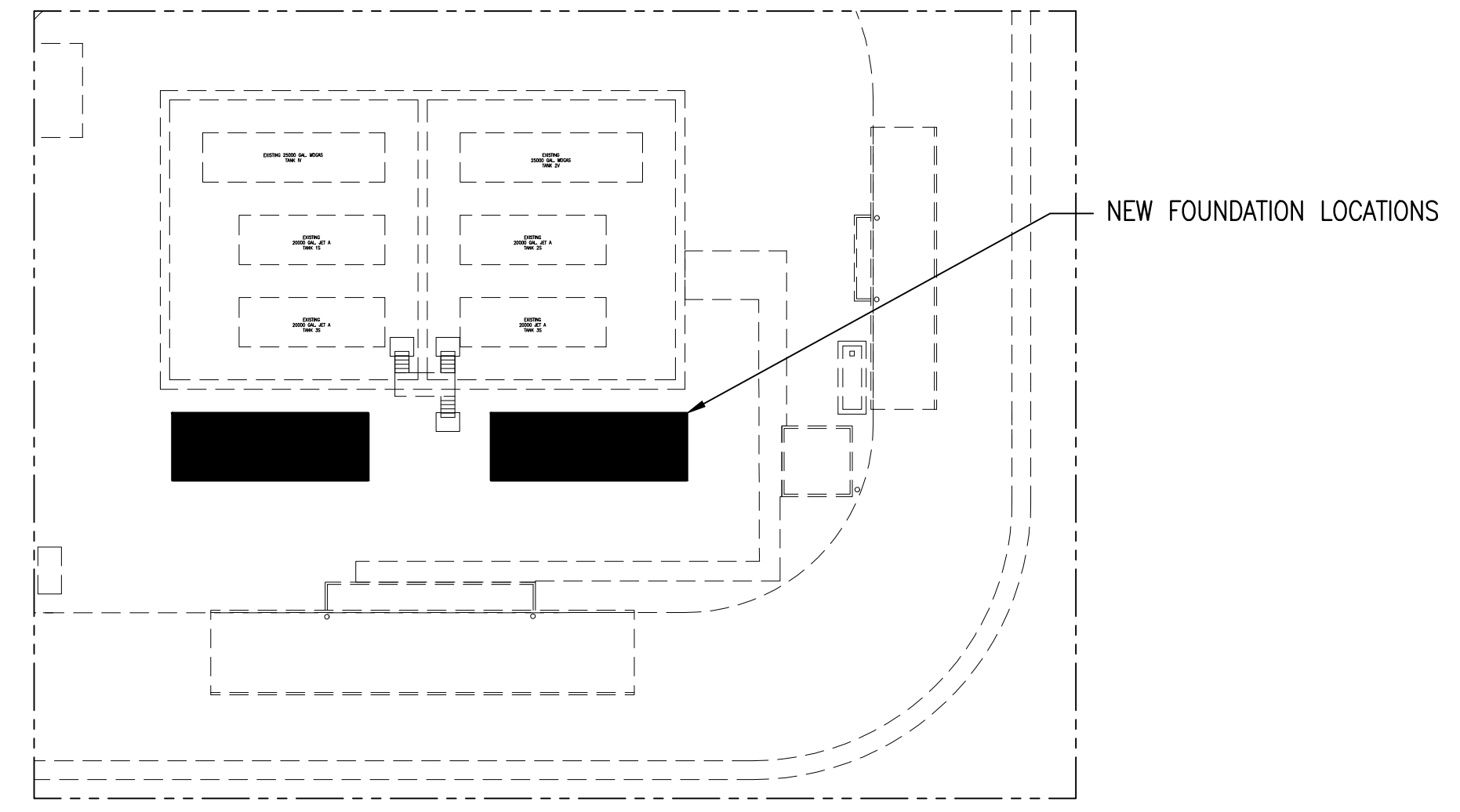
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1 NEW JET-A TANK FOUNDATION PLAN
 SCALE: 3/16"=1'-0"



A KEY PLAN

PLAN NOTES:
 CONTRACTOR VERIFY EXACT TANK PLACEMENTS PRIOR TO INSTALLING FOUNDATIONS FOR COLUMNS. COORDINATE WITH STEEL MFR. IF ADJUSTMENTS TO CATWALK SECTION LENGTHS ARE REQUIRED.
 PROVIDE VERTICAL STEEL LADDER OR SHIP'S LADDER ATTACHED B/W HSS COL'S AT EACH END OF CATWALKS. (LADDERS NOT SHOWN) BOLT L3x3x1/4 ANGLES B/W COLS FOR LADDER ATTACHMENT AS REQ'D. LADDERS TO BE MANUFACTURED BY PRECISION LADDERS OR EQUIVALENT.
 CATWALK SHALL CLEAR TOP OF TANKS BY 1'-0" MINIMUM. CONTRACTOR TO COORDINATE ACTUAL ELEVATION OF CATWALK WITH ELEVATION OF TANK AS DETERMINED BY THE OWNER. CATWALK LIVE LOAD=100PSF.

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FUEL FARM EXPANSION

NEW TANK FOUNDATION PLAN

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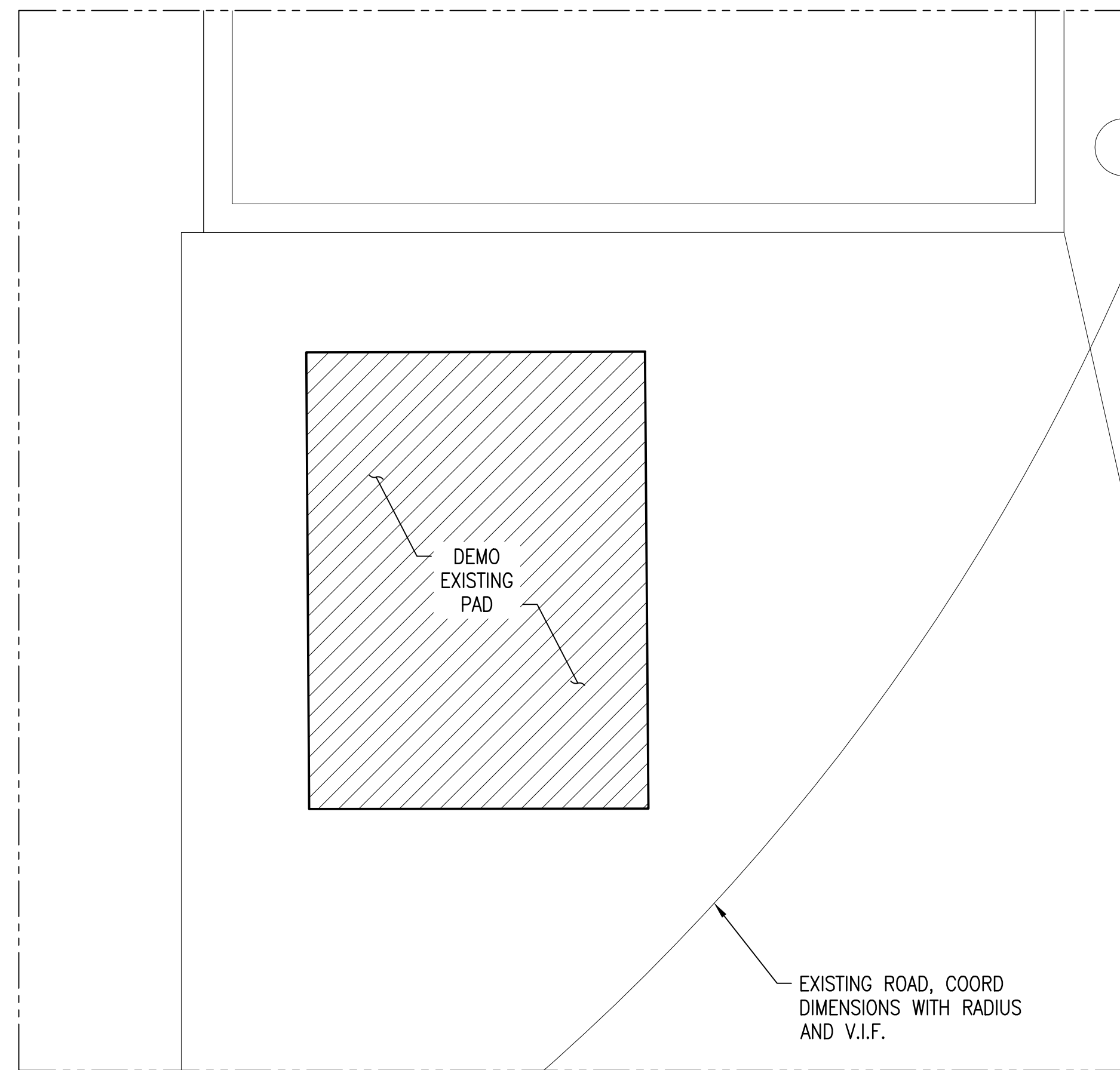
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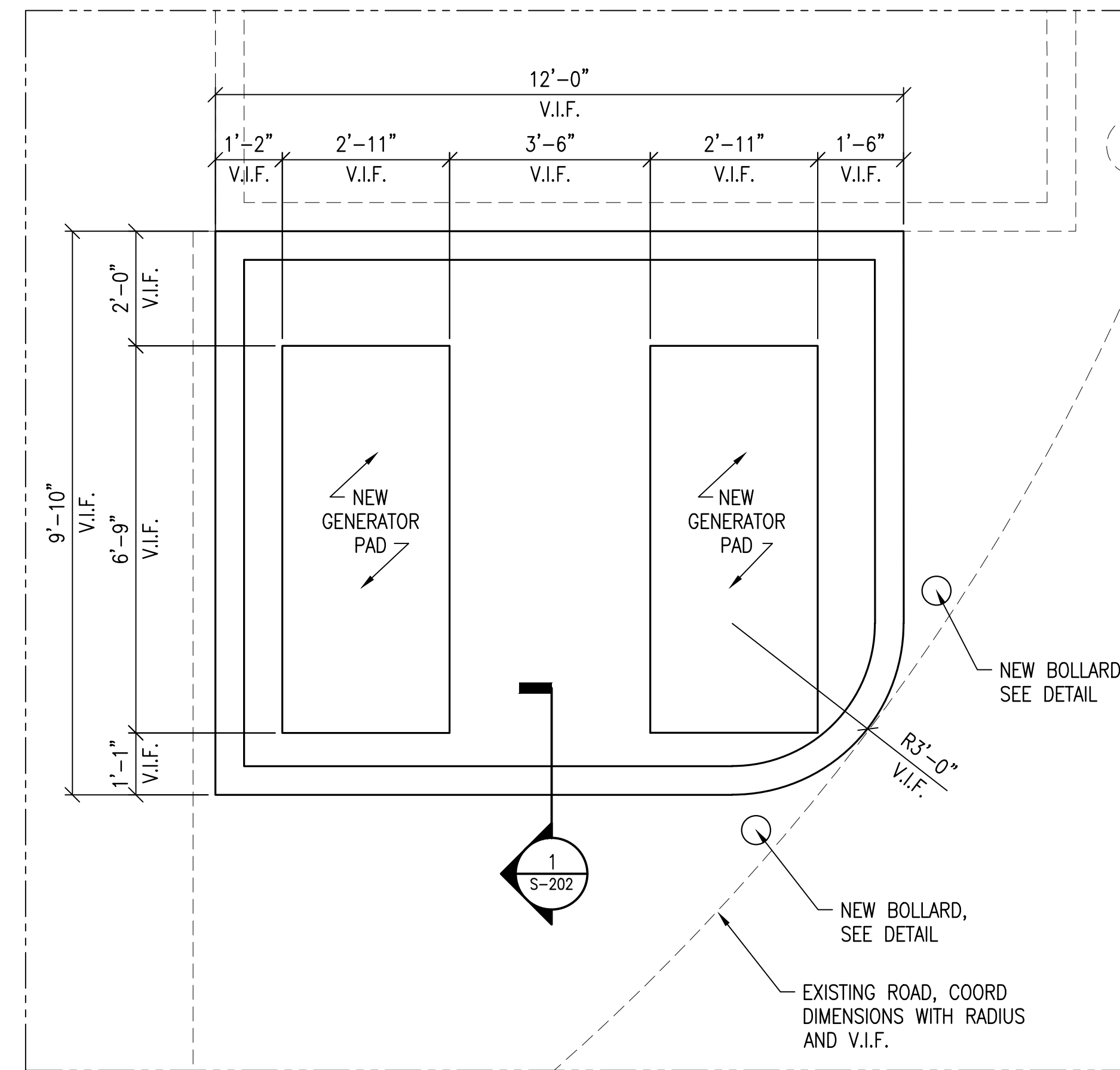
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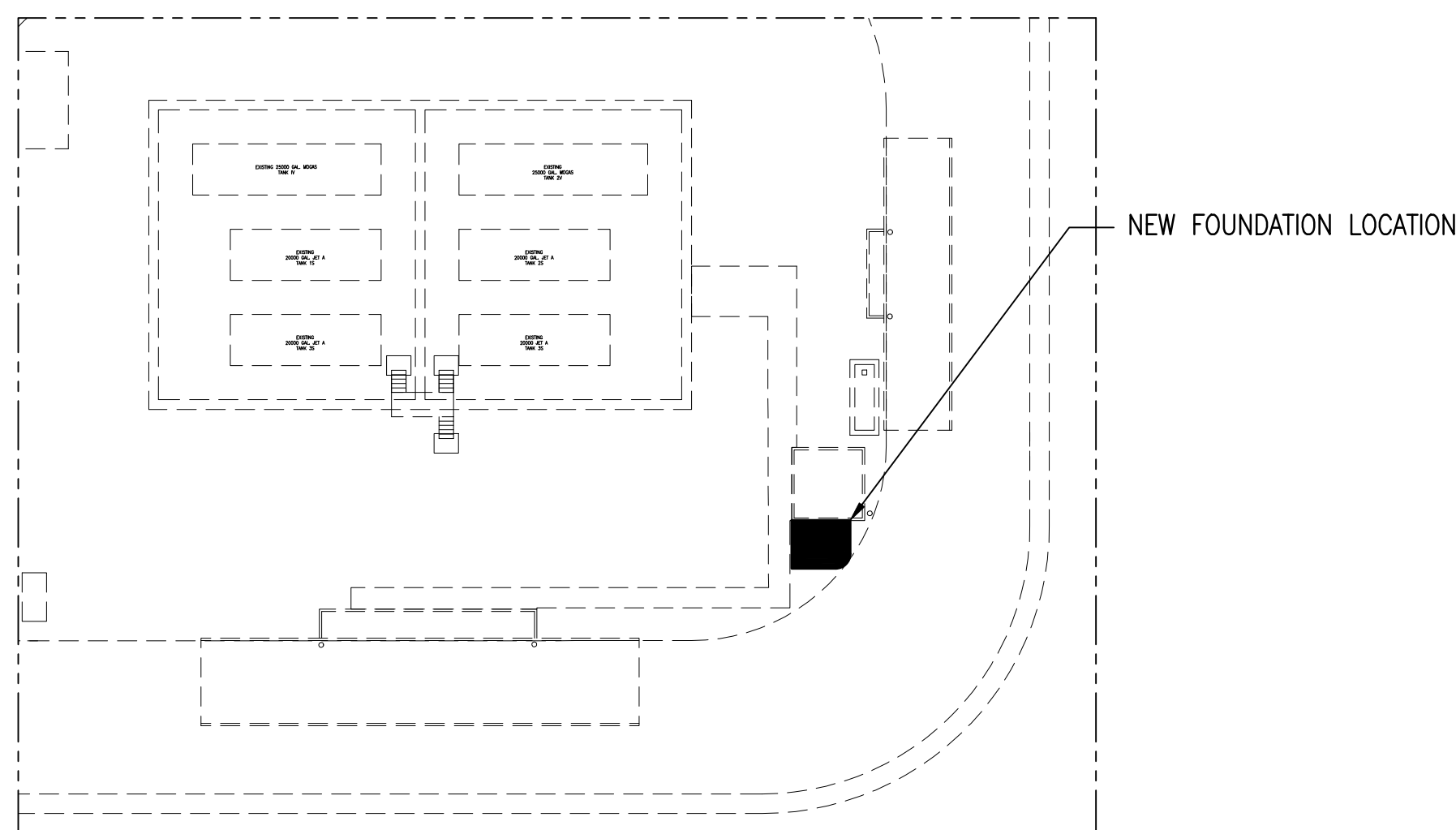
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SHEET NUMBER
S-100



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



2 PUMP ISLAND FOUNDATION PLAN
 SCALE: 1/2"=1'-0"



A KEY PLAN

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NEW PUMP ISLAND FOUNDATION PLAN

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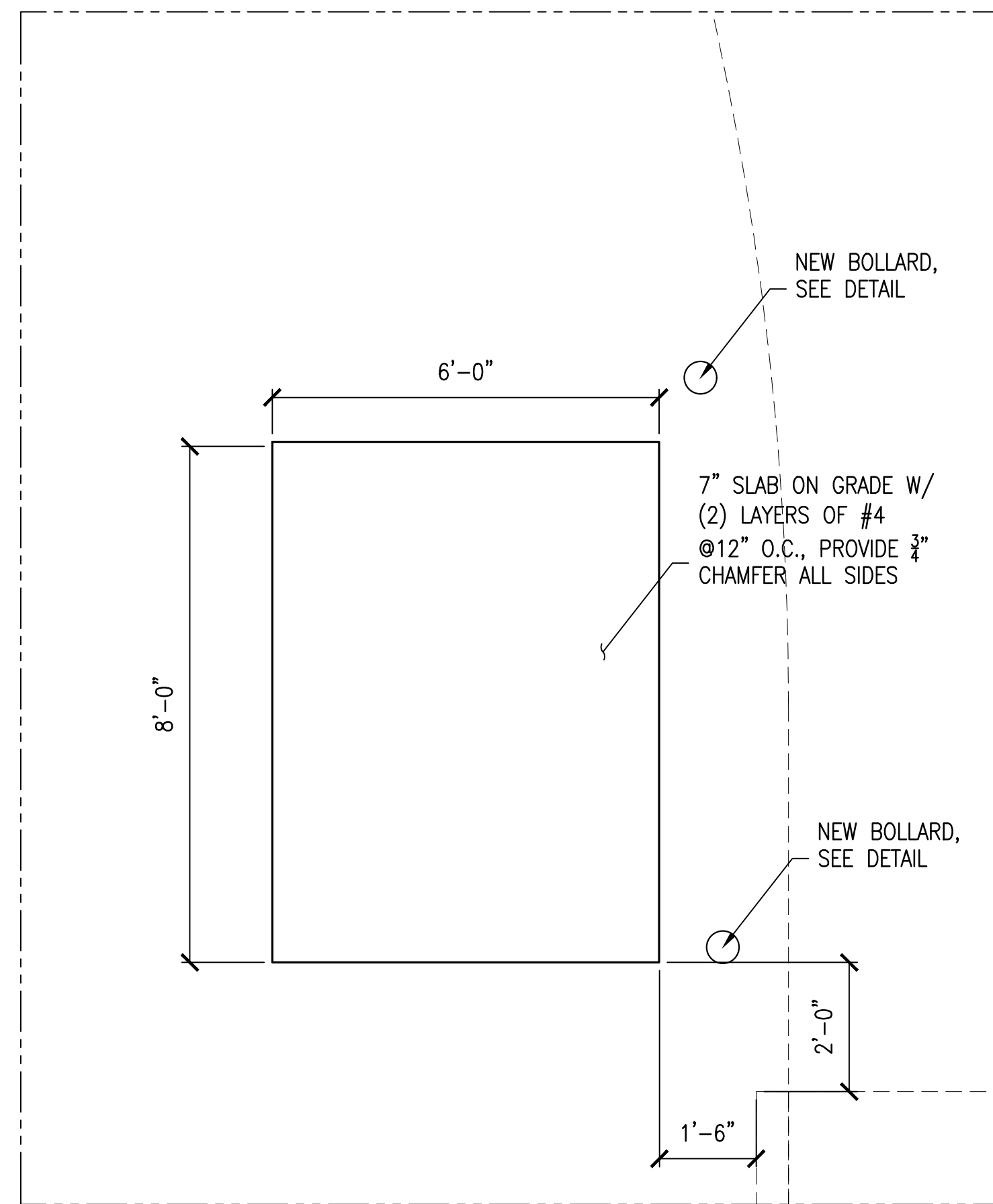
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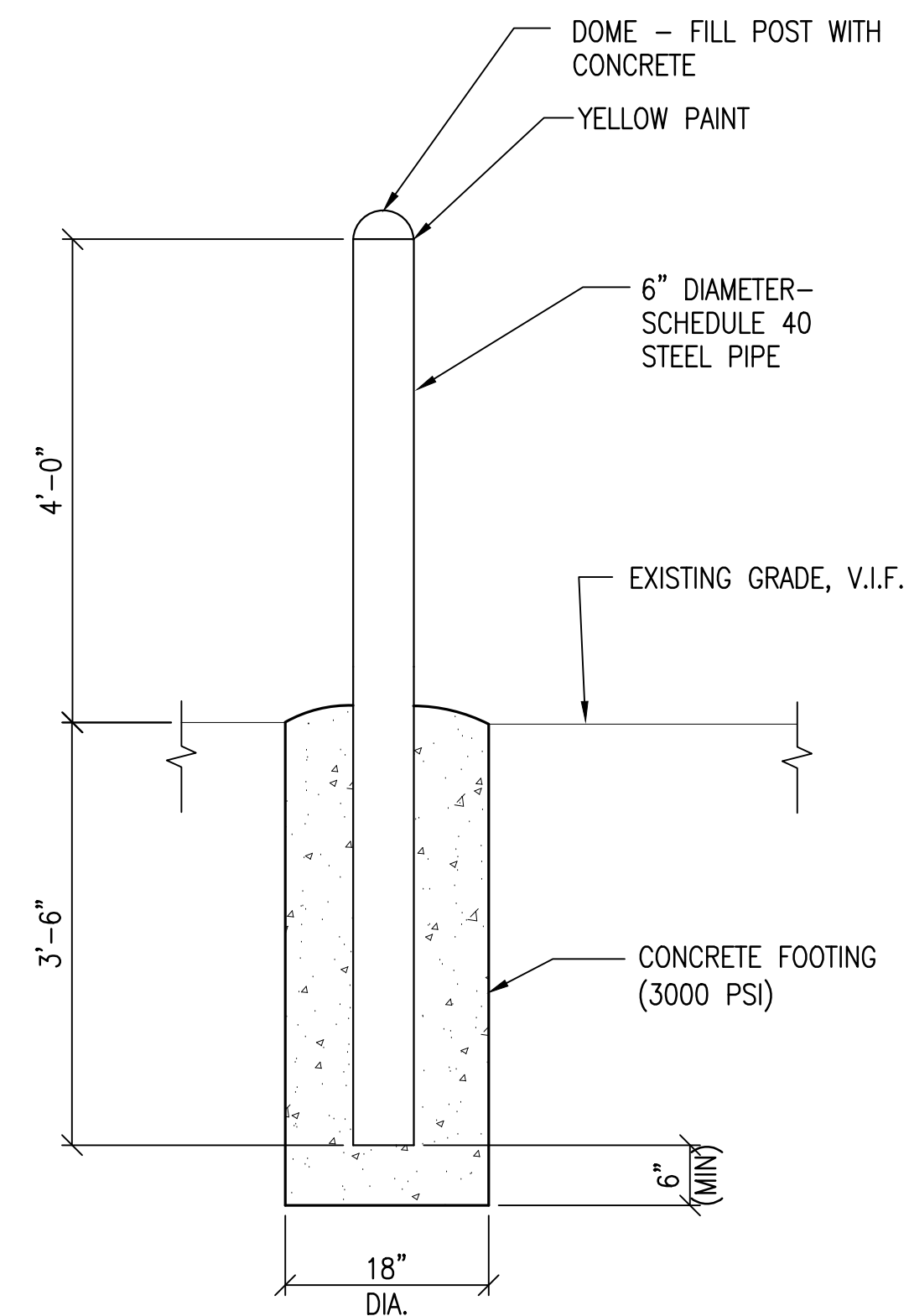
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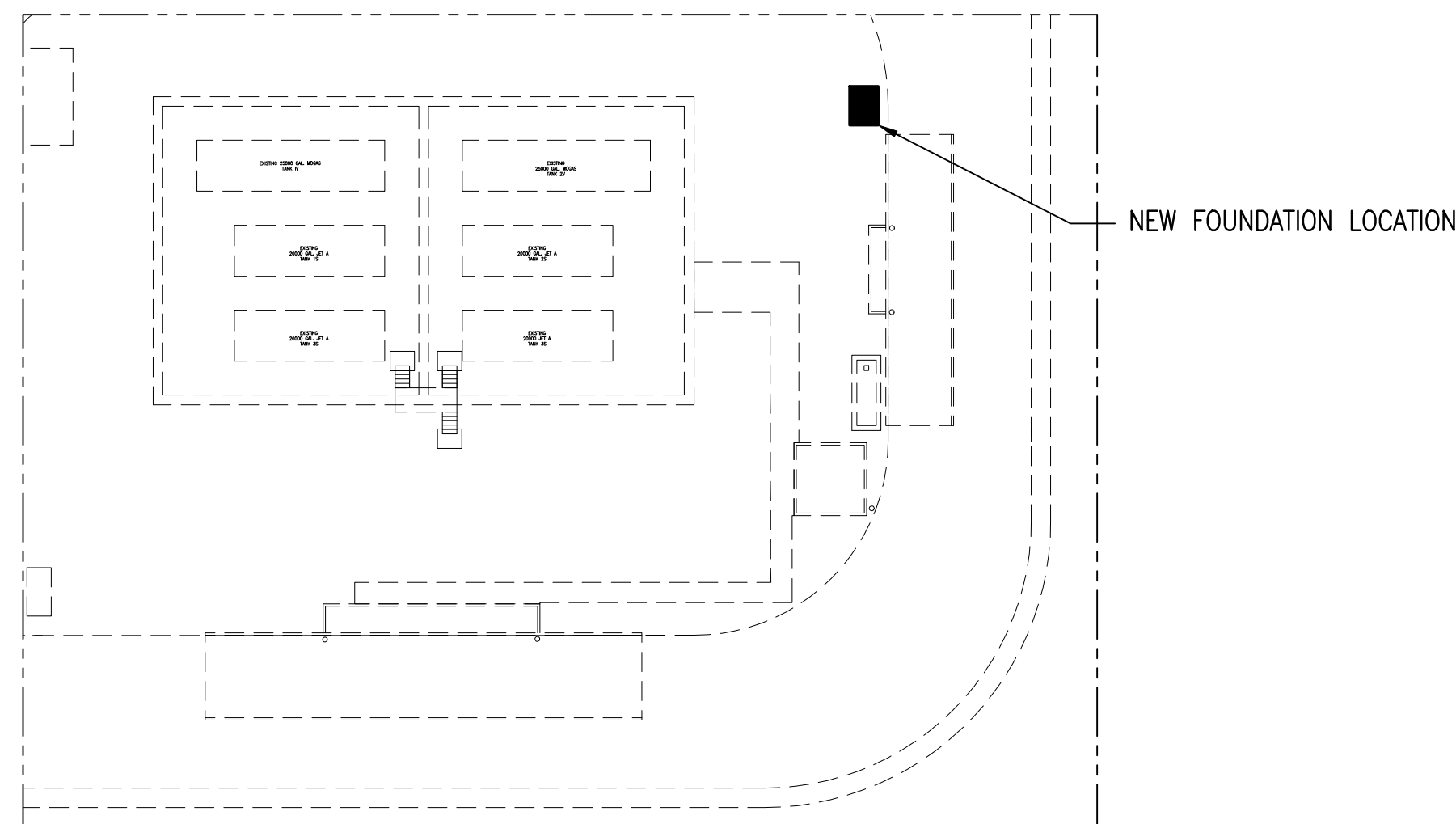
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1 WASTE TANK FOUNDATION PLAN
SCALE: 1/2"=1'-0"



2 BOLLARD DETAIL
SCALE: 3/4"=1'-0"



A KEY PLAN

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FUEL FARM EXPANSION

NEW WASTE TANK FOUNDATION PLAN

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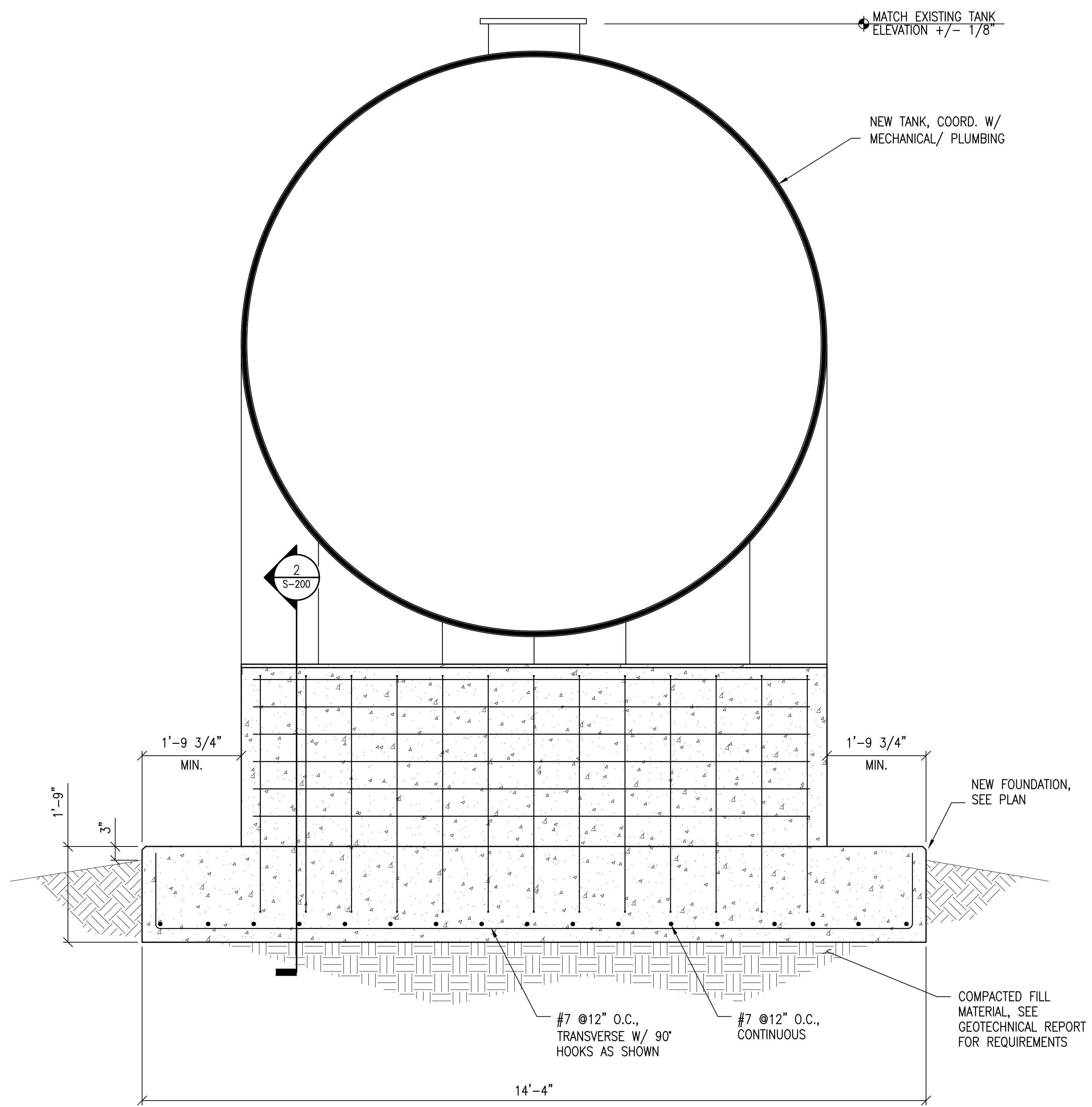
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DRAWN BY: WEH
CHECKED BY: DJM
APPROVED BY: DJM
DATE: FEBRUARY 2019

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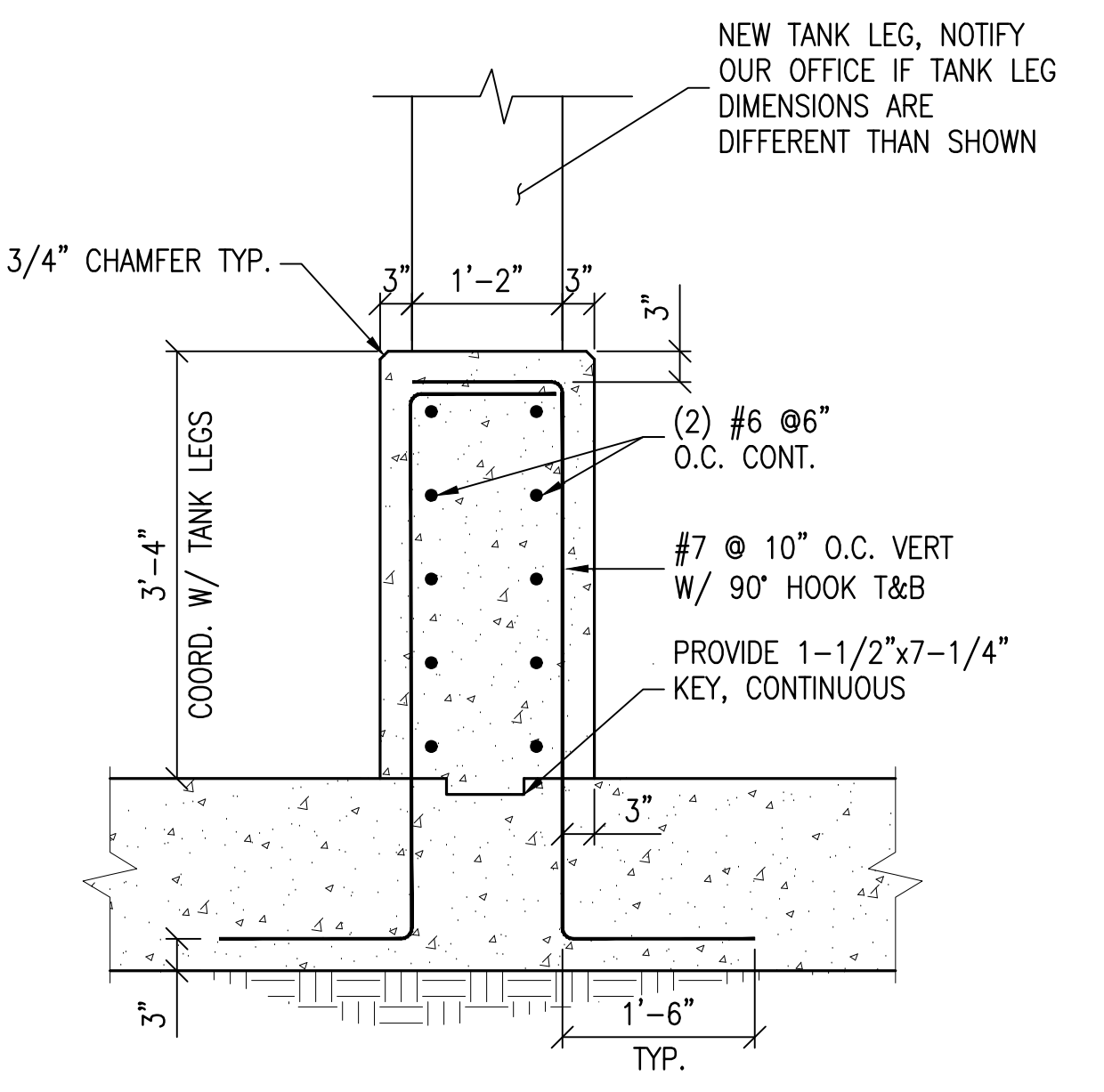
SHEET NUMBER

S-102

A:\2017 PROJECT\2017-130 VPS FUEL FARM\DRAWINGS February 7, 2019



1 FOUNDATION SECTION
 SCALE: 3/4"=1'-0"



FOUNDATION REINFORCEMENT NOT SHOWN FOR CLARITY, ANCHORAGE OF TANK BY TANK MANUFACTURER

2 TANK SUPPORT PILASTER
 SCALE: 3/4"=1'-0"

OKALOOSA COUNTY AIRPORTS
 DESTIN FORT WALTON BEACH
 FLY VPS
 AIRPORT
 A SERVICE OF OKALOOSA COUNTY

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DESTIN-FORT WALTON BEACH AIRPORT
 FUEL FARM EXPANSION

REINFORCED CONCRETE DETAILS

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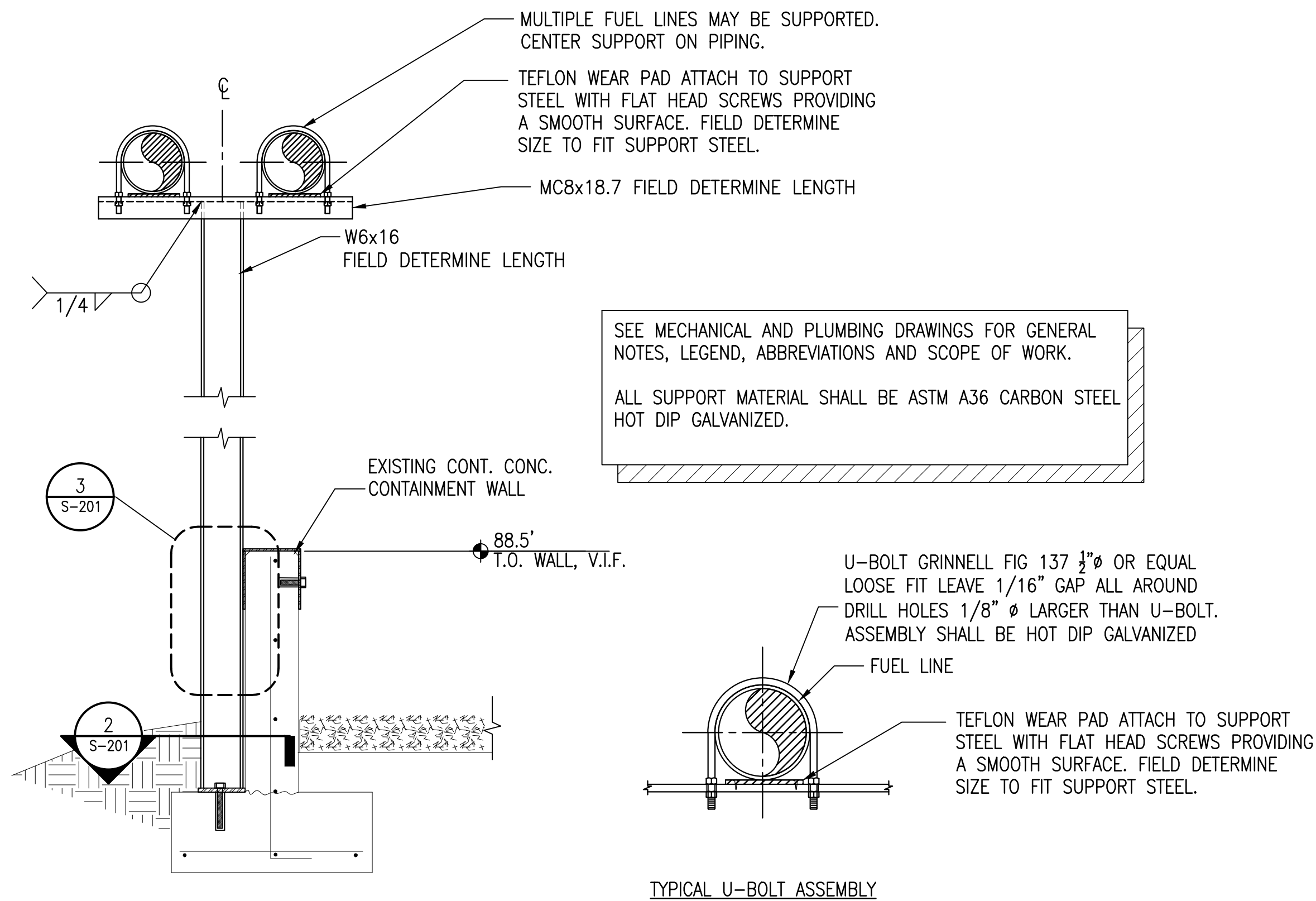
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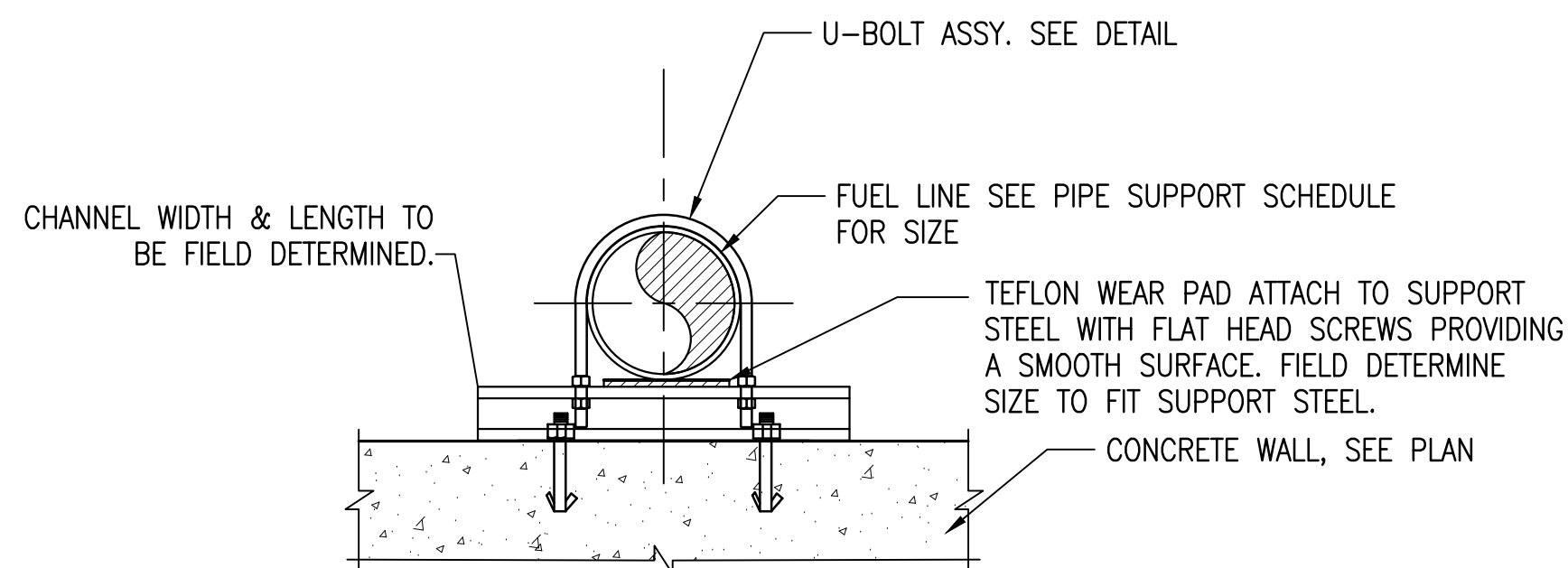
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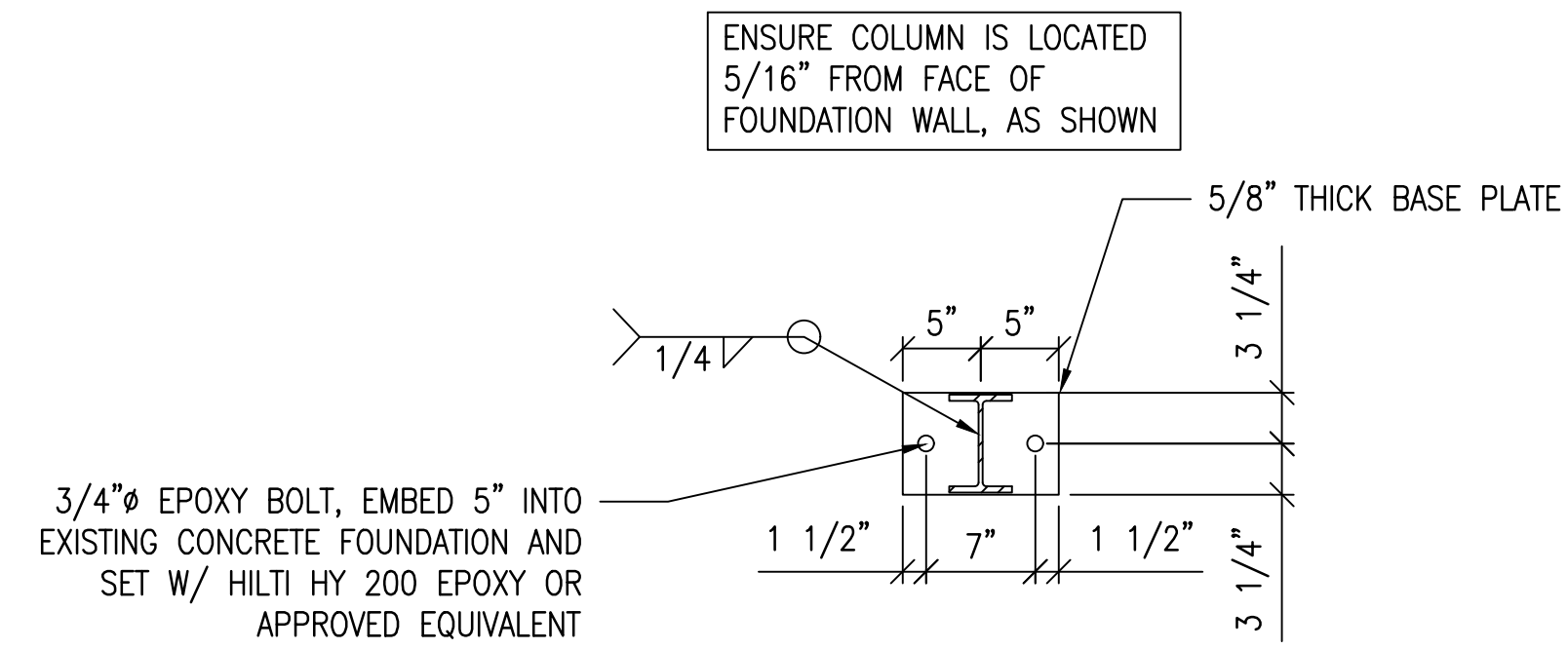
AVCON PROJECT NO. 2017.050.02
 SHEET NUMBER
S-200



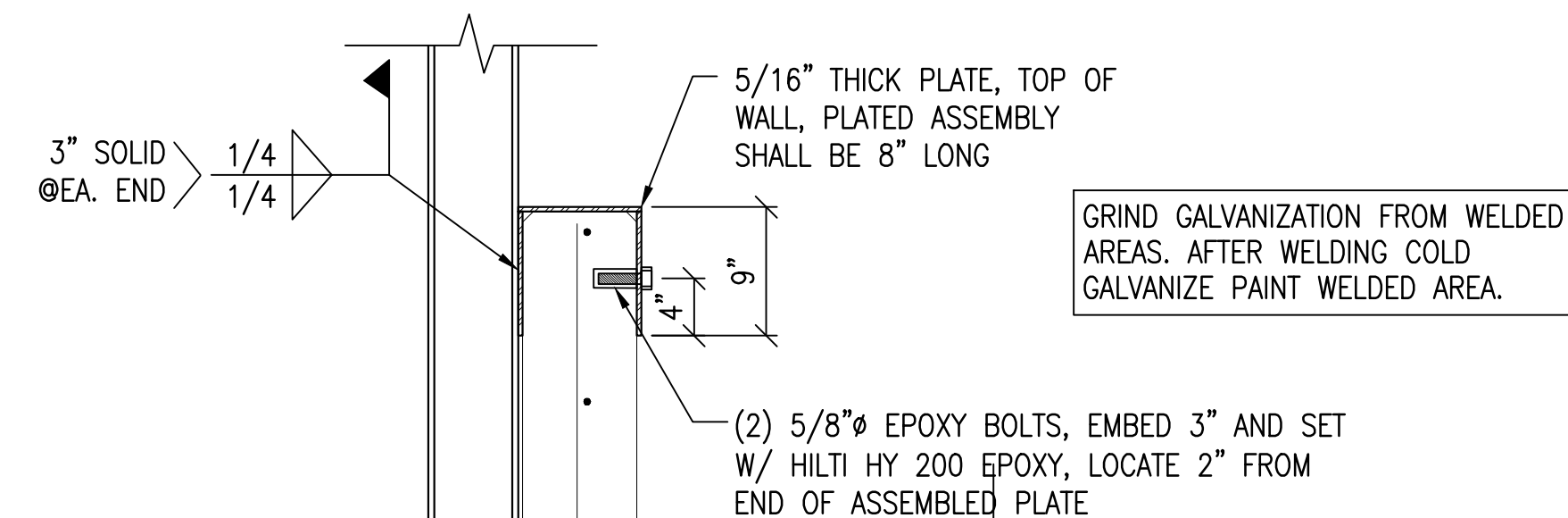
1 PIPE SUPPORT ATTACHMENT
SCALE: 3/4"=1'-0"



4 PIPE SUPPORT DETAIL
SCALE: 3/4"=1'-0"



2 BASE PLATE DETAIL
SCALE: 1"=1'-0"



3 WALL ATTACHMENT DETAIL
SCALE: 1"=1'-0"

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FUEL FARM EXPANSION

PIPE SUPPORT STRUCTURAL DETAILS

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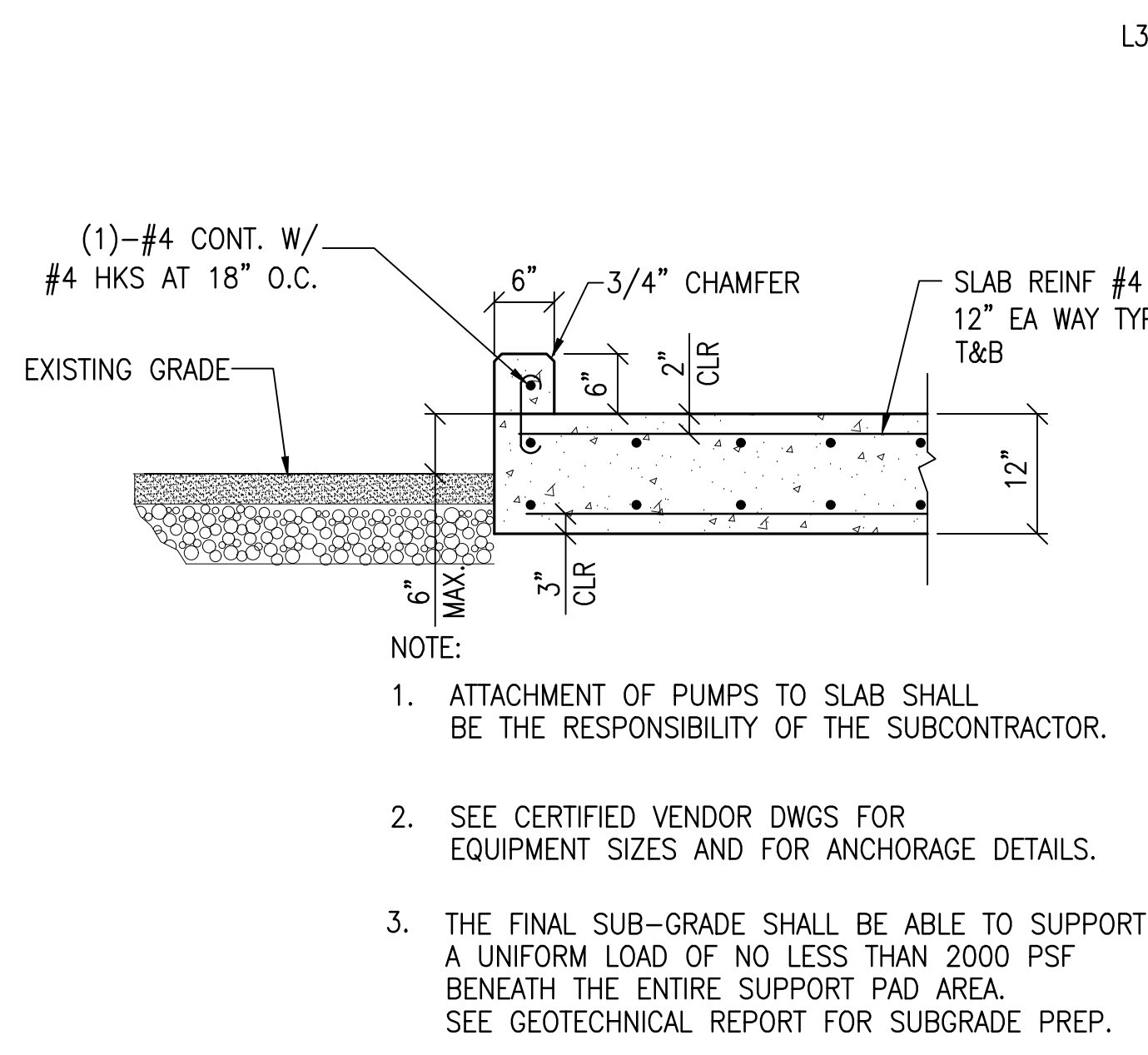
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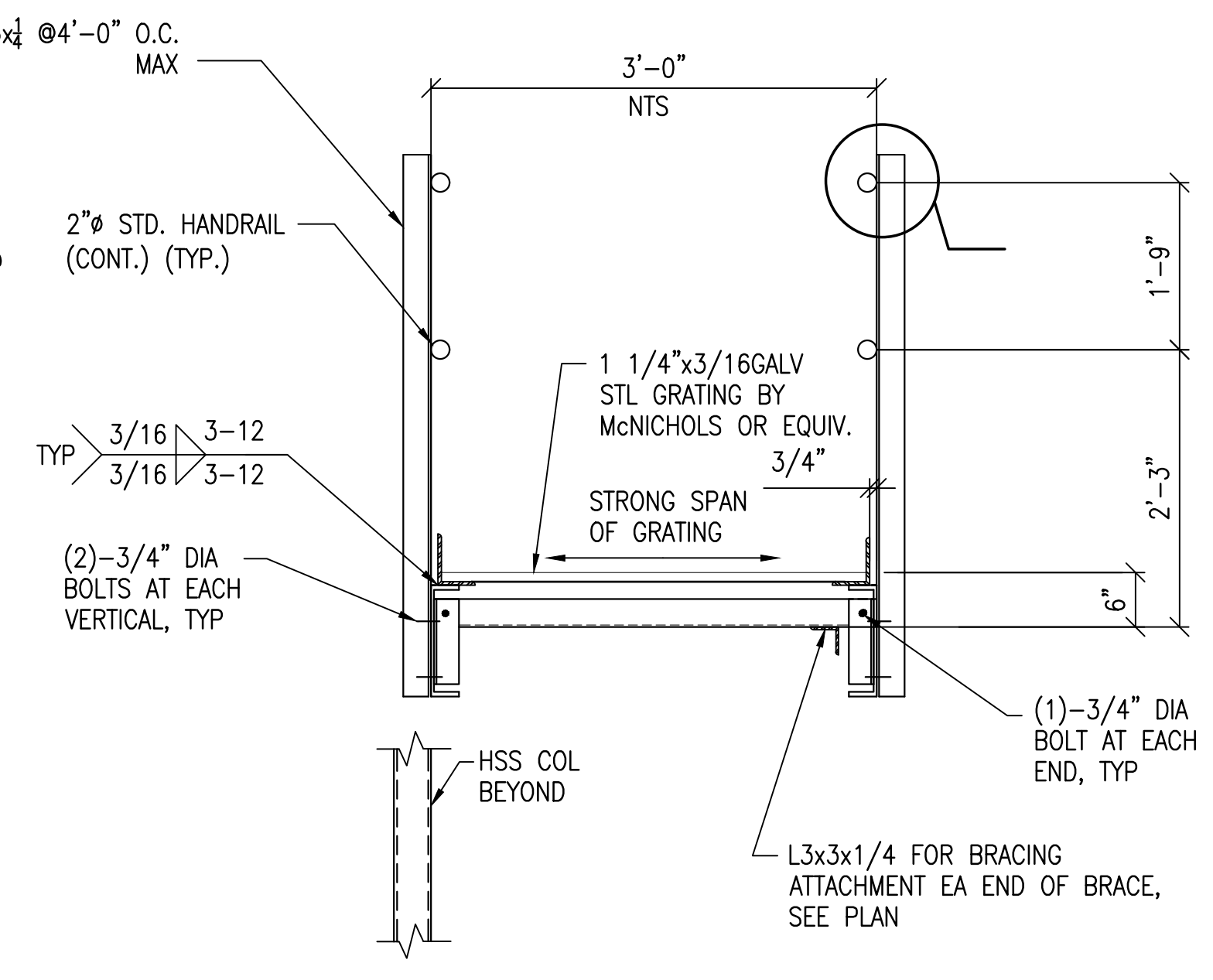
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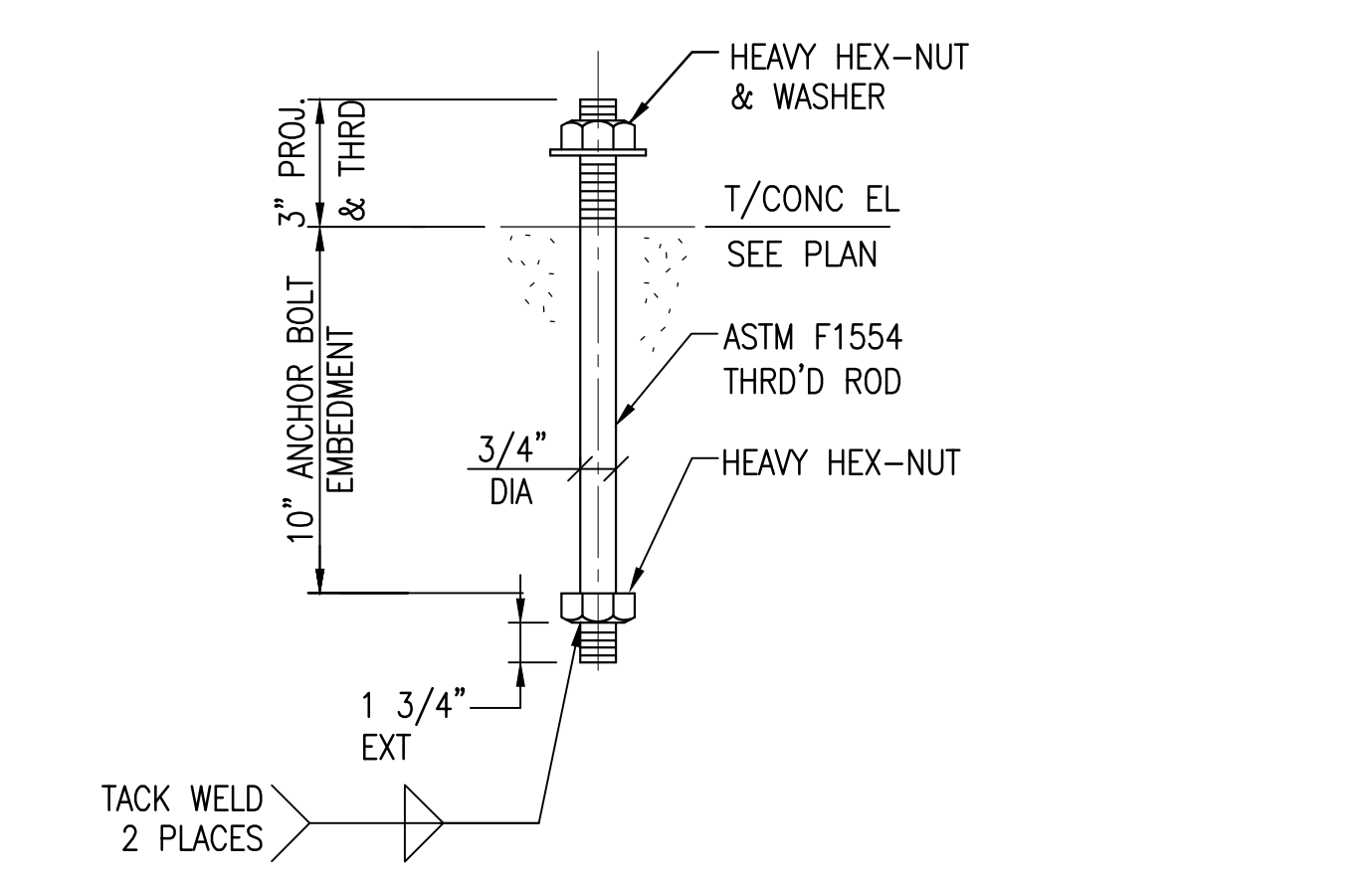
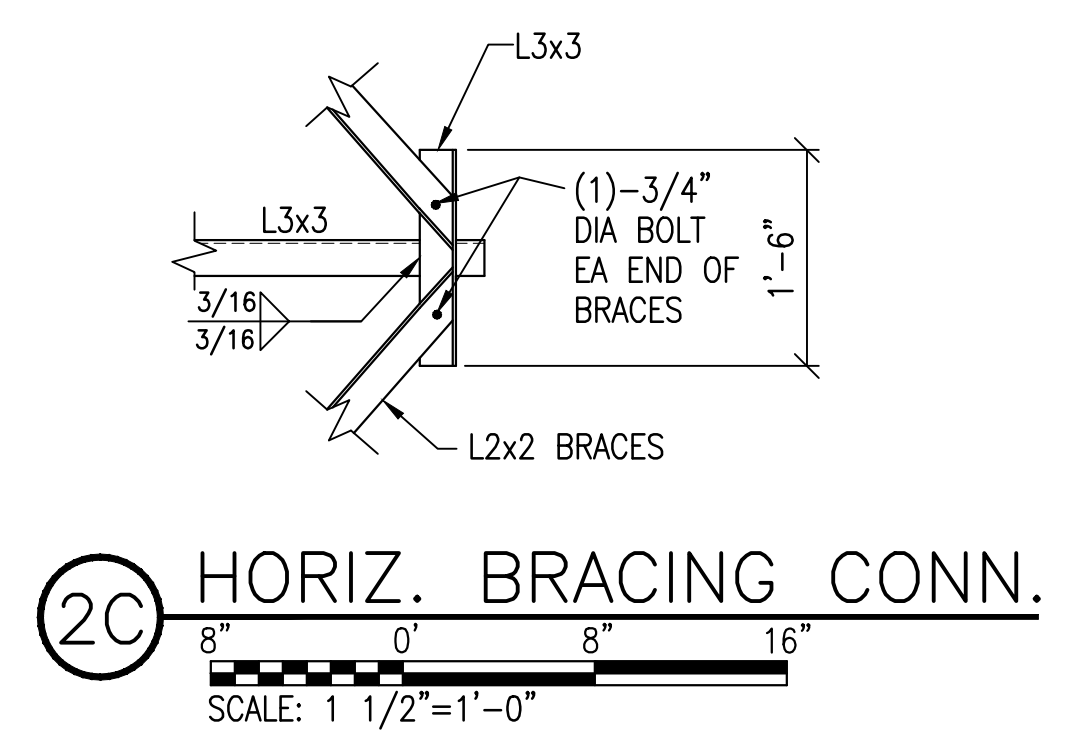
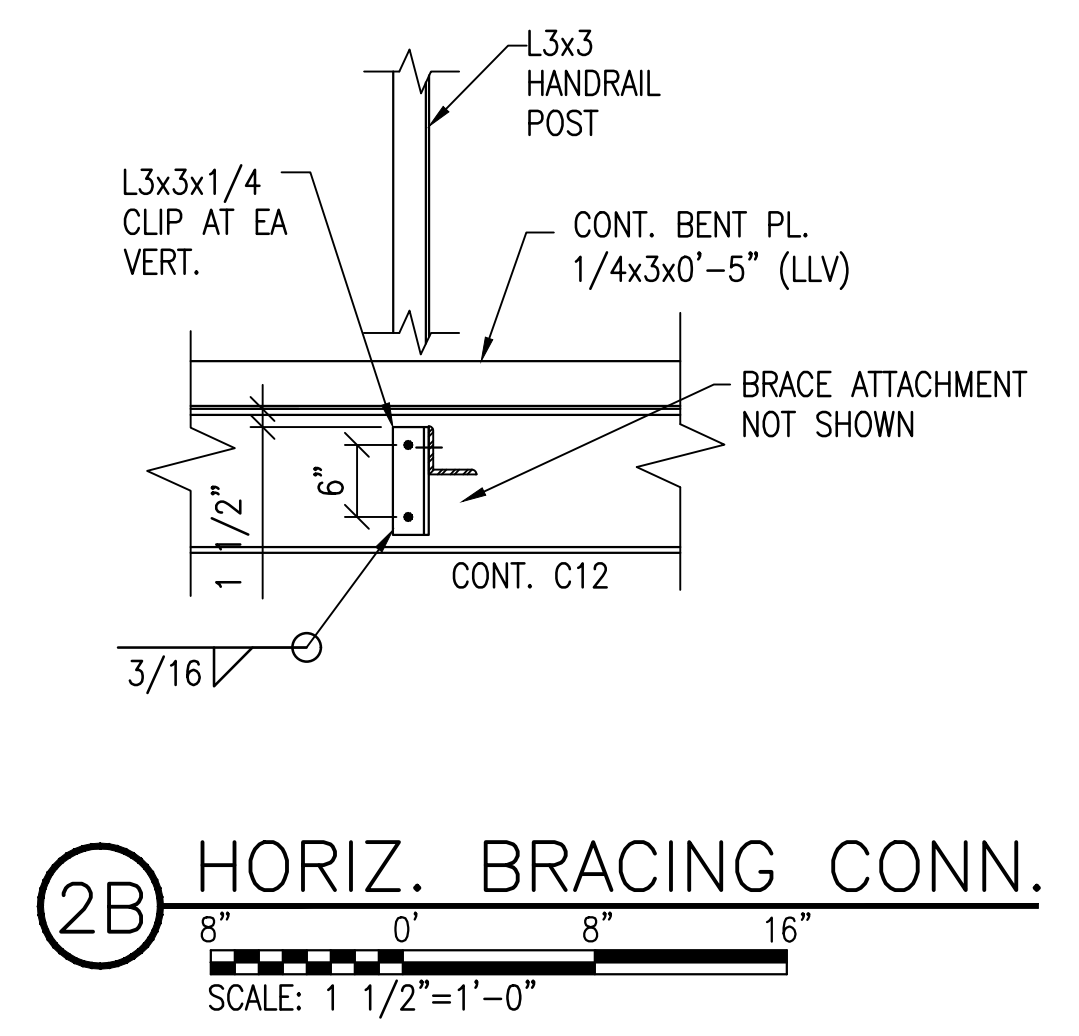
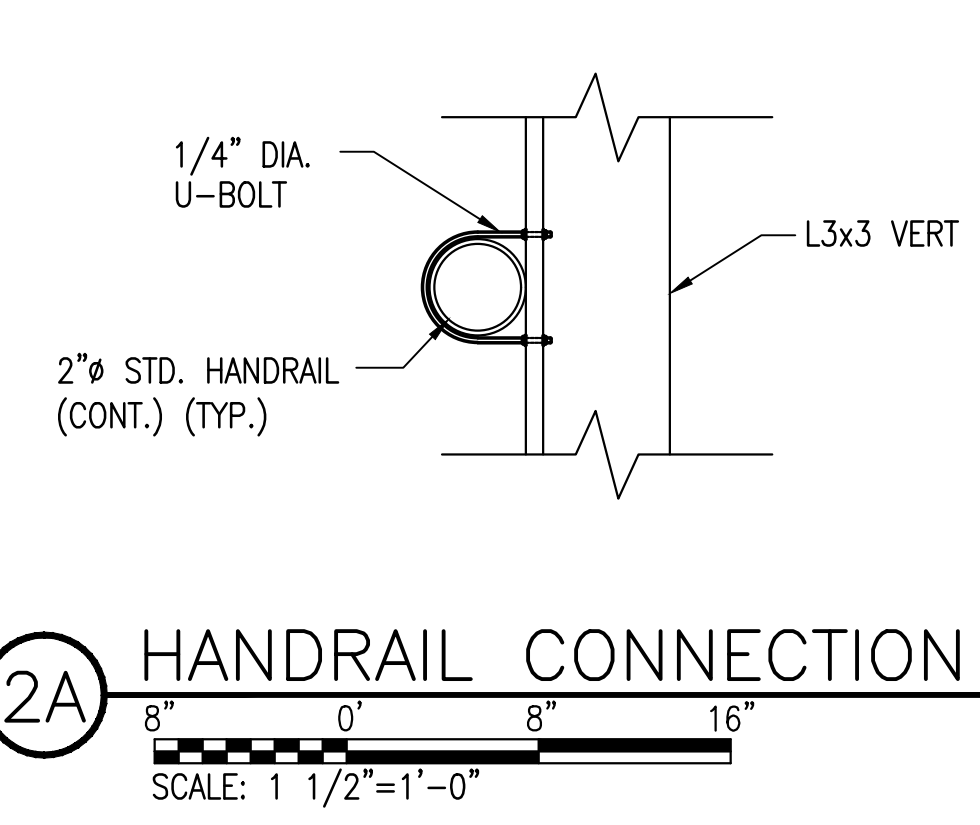
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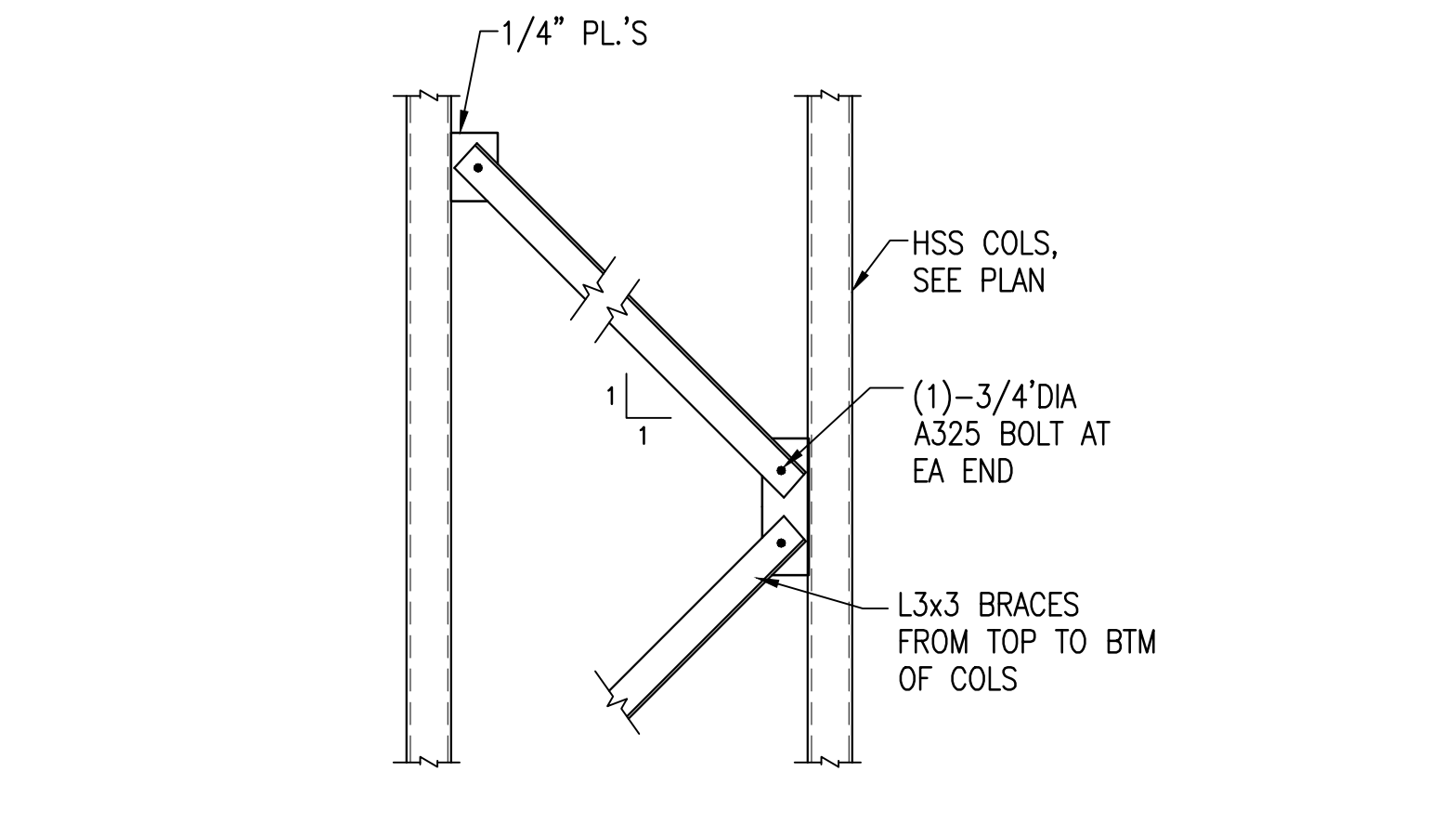
1 FOUNDATION DETAIL
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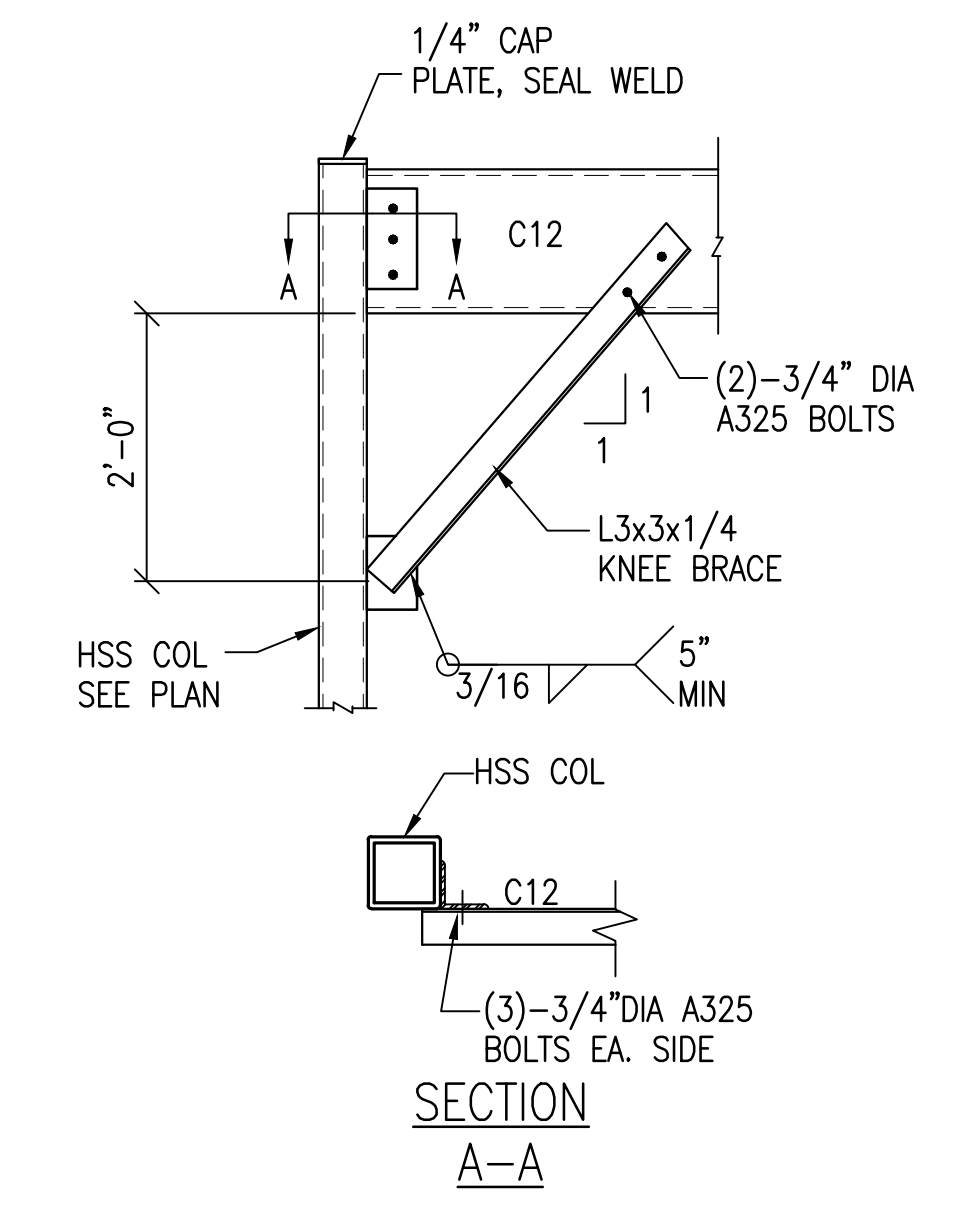
2 CATWALK DETAILS
SCALE: 3/4"=1'-0"



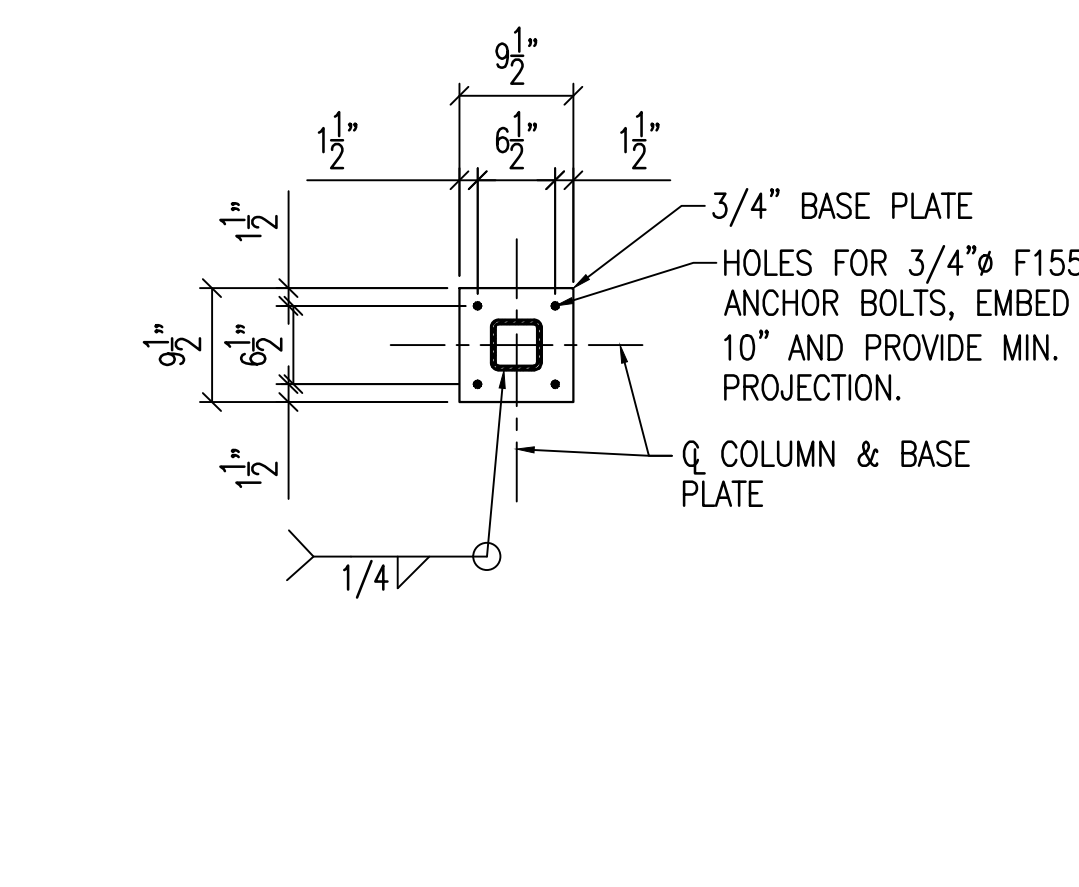
3 ANCHOR BOLT DETAIL
SCALE: 3/4"=1'-0"



4 VERT. BRACING CONN.
SCALE: 3/4"=1'-0"



5 BEAM TO COL. CONN.
SCALE: 3/4"=1'-0"



6 HSS4X4X1/4 BASE PL
SCALE: 3/4"=1'-0"



DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

ACCESS LADDER STRUCTURAL DETAILS

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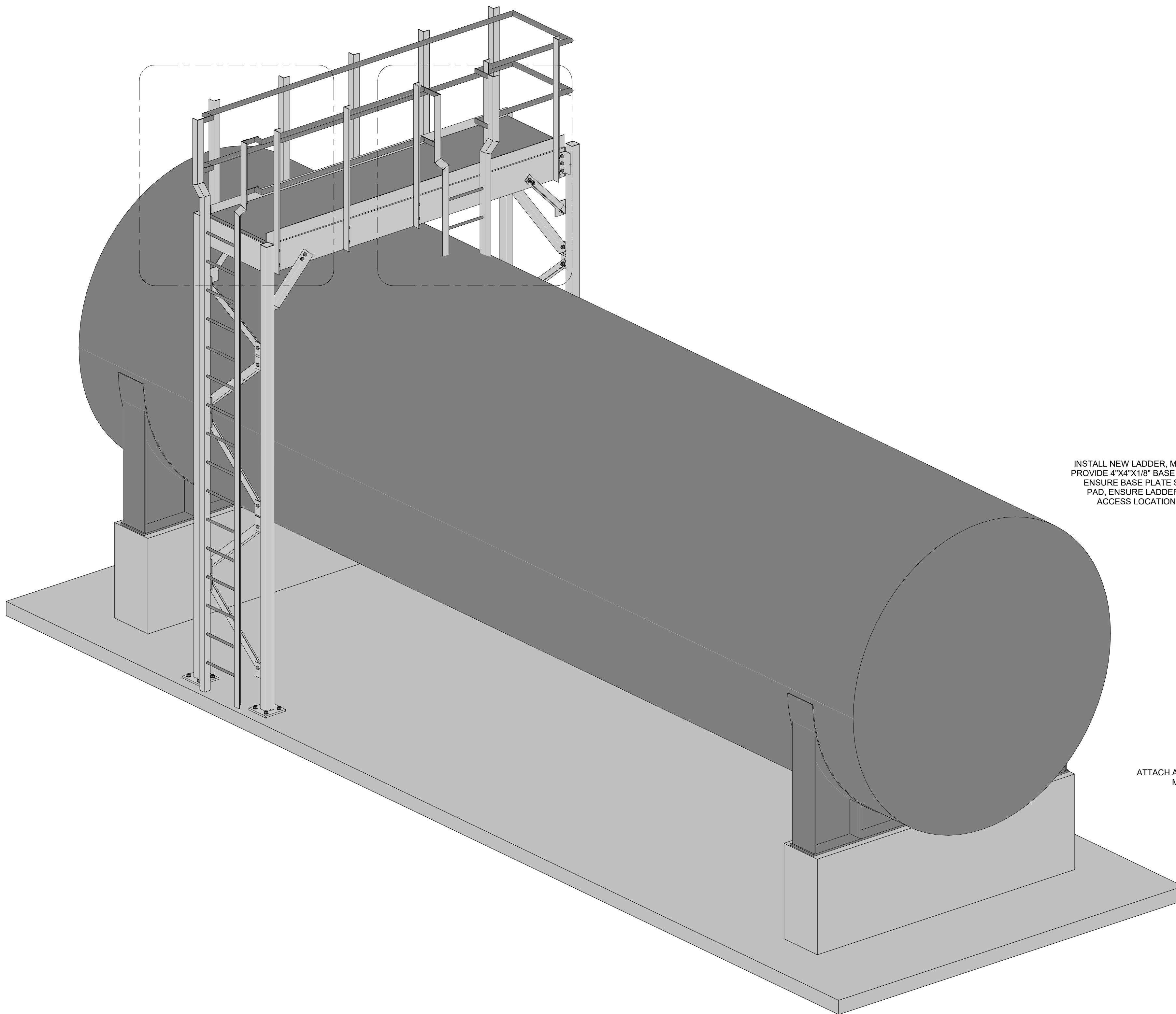
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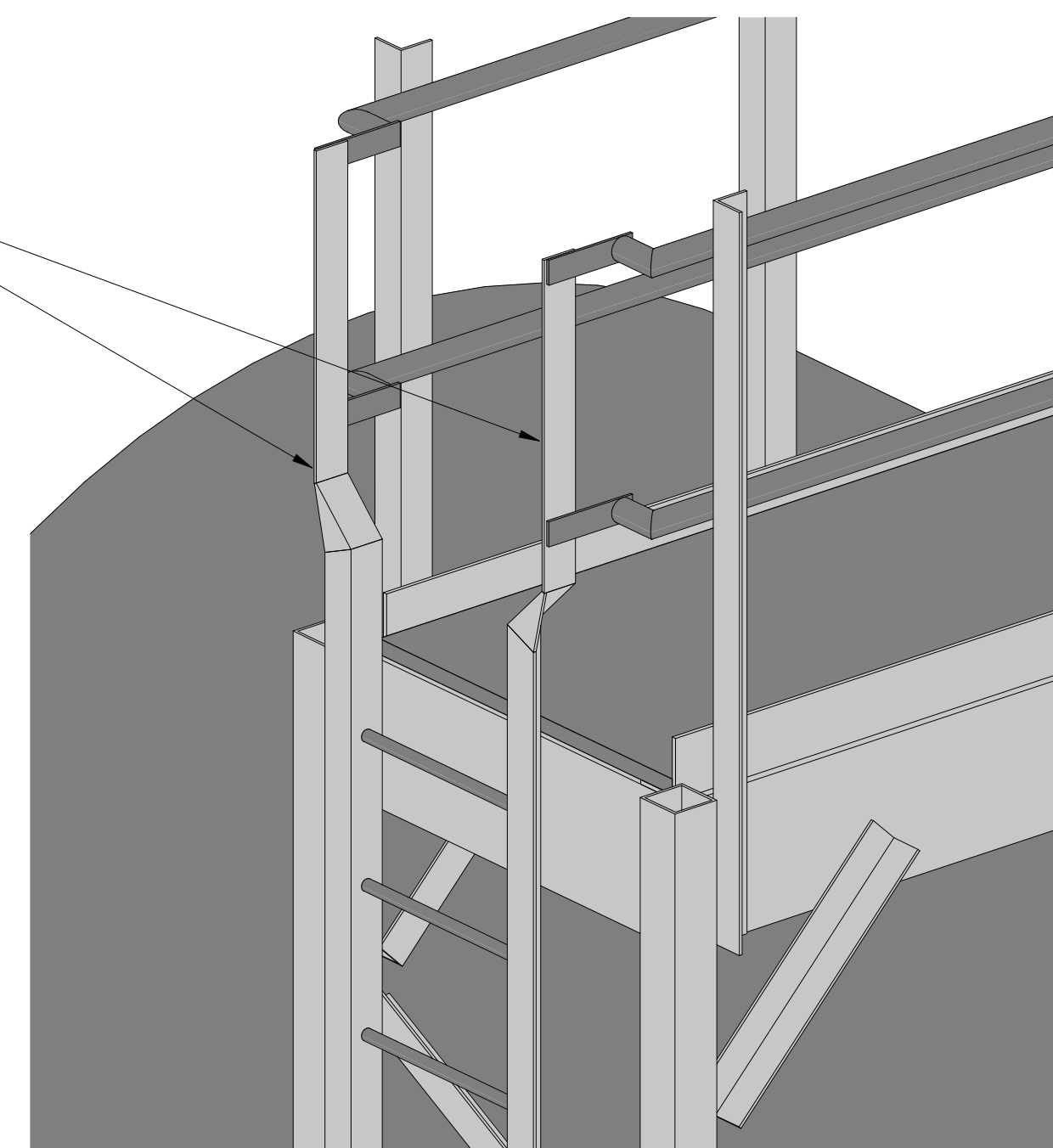
AVCON PROJECT NO. 2017.050.02
SHEET NUMBER S-202

PROVIDE ACCESS TO THE MAIN SIDE OF THE TANKS WITH OPENINGS, THESE MODIFICATIONS SHALL OCCUR AT BOTH NEW TANK LOCATIONS



1 VPS FUEL FARM ADDITION

CUT FACE OF L3X3 OFF AS SHOWN, GRIND FACE OF RAIL SMOOTH, COLD GALVANIZE EDGE THAT HAS BEEN REMOVED

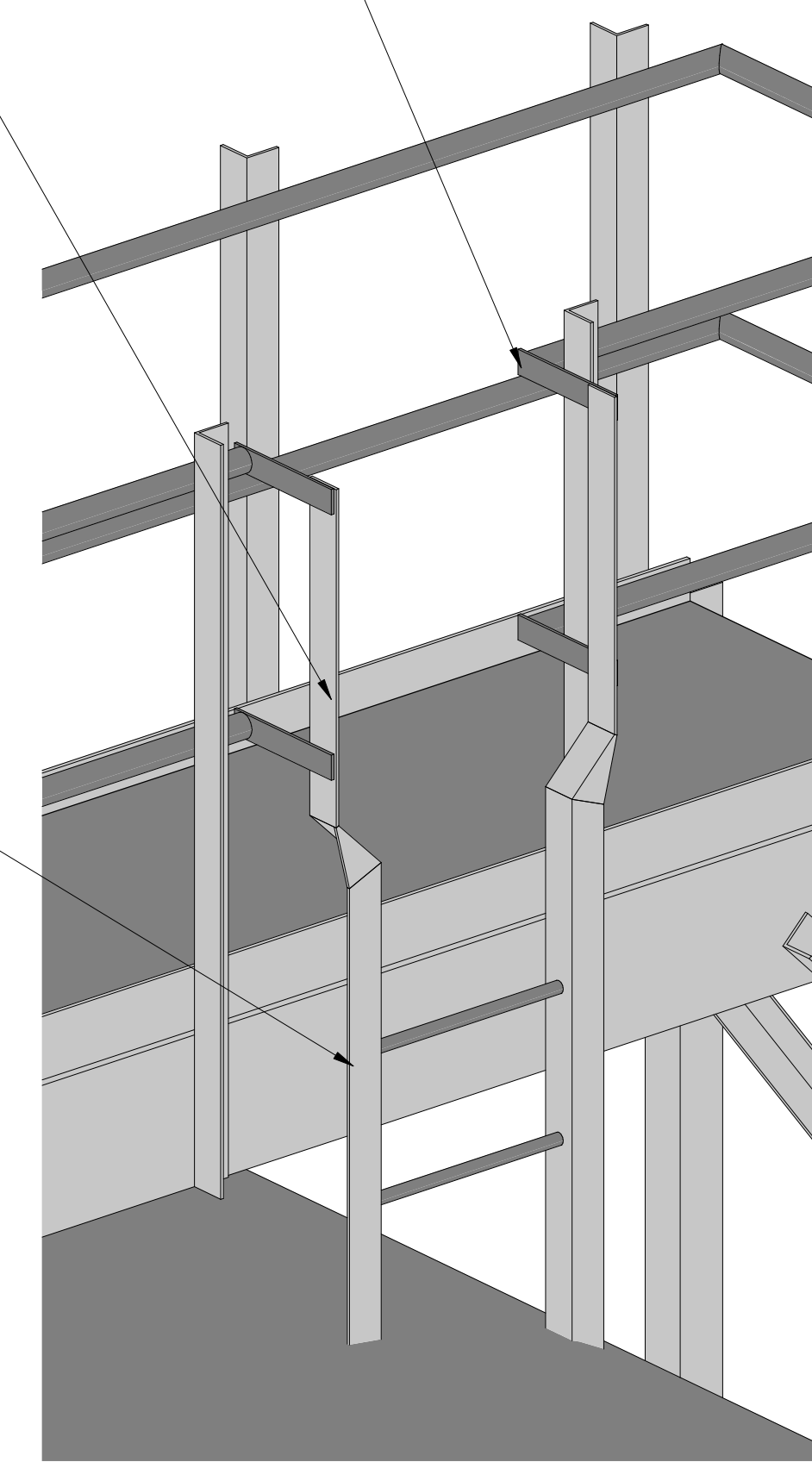


2 LADDER MODIFICATION

CUT EX. RAIL AND CAP. PROVIDE GALV. CHAIN AND ATTACHMENT AT BOTH CUT RAILS

INSTALL NEW LADDER. MATCH EXISTING LADDER. PROVIDE 4"x4"x1/8" BASE PLATE ON TOP OF TANK. ENSURE BASE PLATE SITS ON 8"x8" NEOPRENE PAD. ENSURE LADDER DOES NOT IMPEDE ANY ACCESS LOCATIONS ON TOP OF THE TANKS

ATTACH AND PROVIDE OFFSET TO MATCH EXISTING LADDER



3 NEW LADDER ADDITION

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MEI project: 2017-130

DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

STRUCTURAL SKETCH

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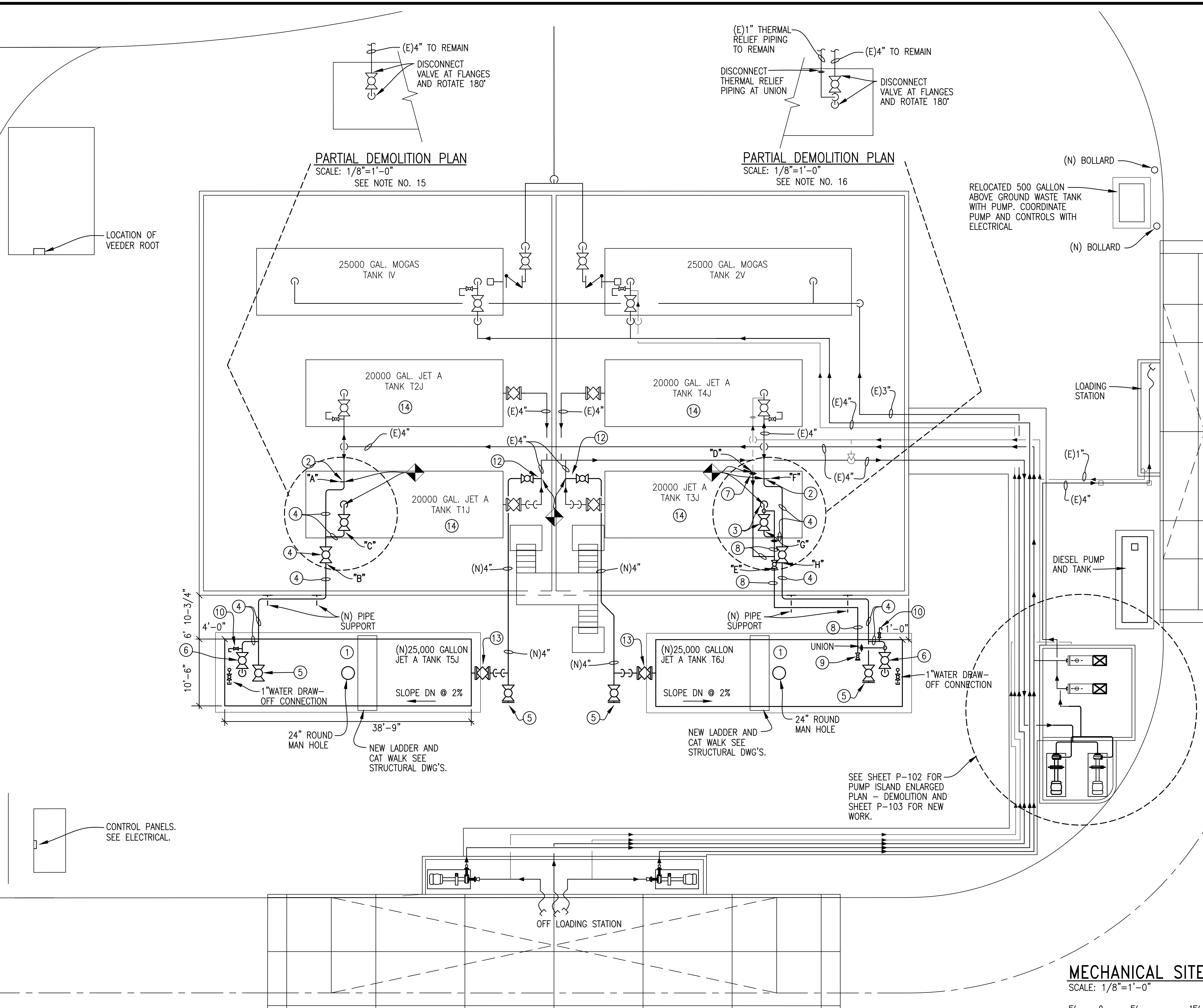
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SHEET NUMBER

S-SK1

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NEW WORK NOTES:

- ① NEW JET A 25,000 GALLON TANK SET AT A 2% SLOPE TO DRAIN AND AT SAME ELEVATION AS EXISTING JET A TANKS. TANK SHALL BE INTERNALLY COATED FOR JET A FUEL.
- ② CONNECT NEW 4" PIPING TO EXISTING 4" AT FLANGE.
- ③ EXISTING VALVE AND PIPING ROTATED AT 180° AND RECONNECTED TO EXISTING 20,000 GALLON JET A TANK.
- ④ NEW 4" PIPING.
- ⑤ NEW 4" BALL VALVE WITH BLIND FLANGE FOR FUTURE CONNECTION.
- ⑥ NEW 120 VOLT ELECTRIC OPERATED BALL VALVE.
- ⑦ CONNECT NEW 1" THERMAL RELIEF LINE TO EXISTING AT UNION.
- ⑧ NEW 1" THERMAL RELIEF PIPING.
- ⑨ NEW 1" BALL VALVE WITH BLIND FLANGE FOR FUTURE.
- ⑩ NEW 1" MANUAL AIR VENT WITH BALL VALVE AND CAP.
- ⑪ NEW 4" BALL VALVE FOR SERVICE.
- ⑫ NEW 4" HOT TAP WITH 4" TAPPING VALVE.
- ⑬ NEW 4" PLUG VALVE. DOUBLE BLOCK AND BLEED.
- ⑭ MANWAY OF EXISTING JET A FUEL TANK (4) SHALL BE COATED.
- ⑮ PIPING BETWEEN "A", "B", AND "C" SHALL BE PREFABRICATED BEFORE THIS PHASE OF DEMOLITION.
- ⑯ PIPING BETWEEN "D", "E", "F", "G" AND "H" SHALL BE PREFABRICATED BEFORE THIS PHASE OF DEMOLITION.

NOTES:

1. SEE SHEET P-105 FOR GENERAL NOTES.
2. ANY EXISTING PIPING OR EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO IT'S ORIGINAL FINISH.
3. ALL PIPES AND METAL SHALL BE PAINTED TO PROTECT FROM RUST.
4. THE CRANE LOCATION SHALL BE APPROVED BY AIRPORT PERSONAL.

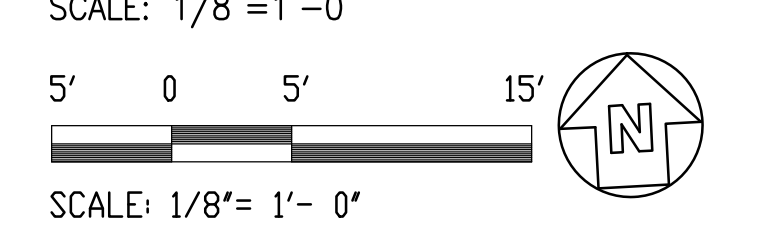
SEQUENCE OF WORK:

THE OVERALL SEQUENCE OF THE WORK IS THAT THE NEW PUMP P-7 SHALL BE INSTALLED AND OPERATIONAL BEFORE THE RELOCATION OF EXISTING PUMP P-3. THE DRAWING INDICATES SPECIFIC PIPING SECTIONS AND TIE-IN POINTS FOR THIS TO BE ACCOMPLISHED.

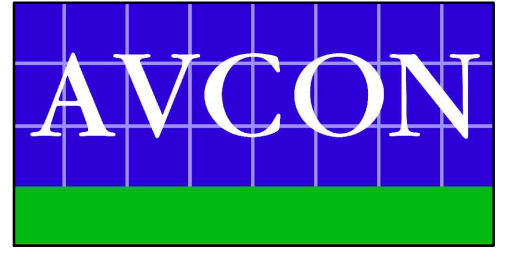
ALL WORK WHICH CAN BE COMPLETED PRIOR TO SHUT DOWN SHALL BE DONE TO INSURE THE SHORTEST DOWN TIME POSSIBLE.

ALL EQUIPMENT AND PIPING BEING REMOVED SHALL BE MAINTAINED IN GOOD CONDITION TO BE ABLE TO BE REUSED IF NEEDED UNTIL ALL SYSTEMS HAVE BEEN APPROVED BY OWNER.

MECHANICAL SITE PLAN



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

MECHANICAL SITE PLAN

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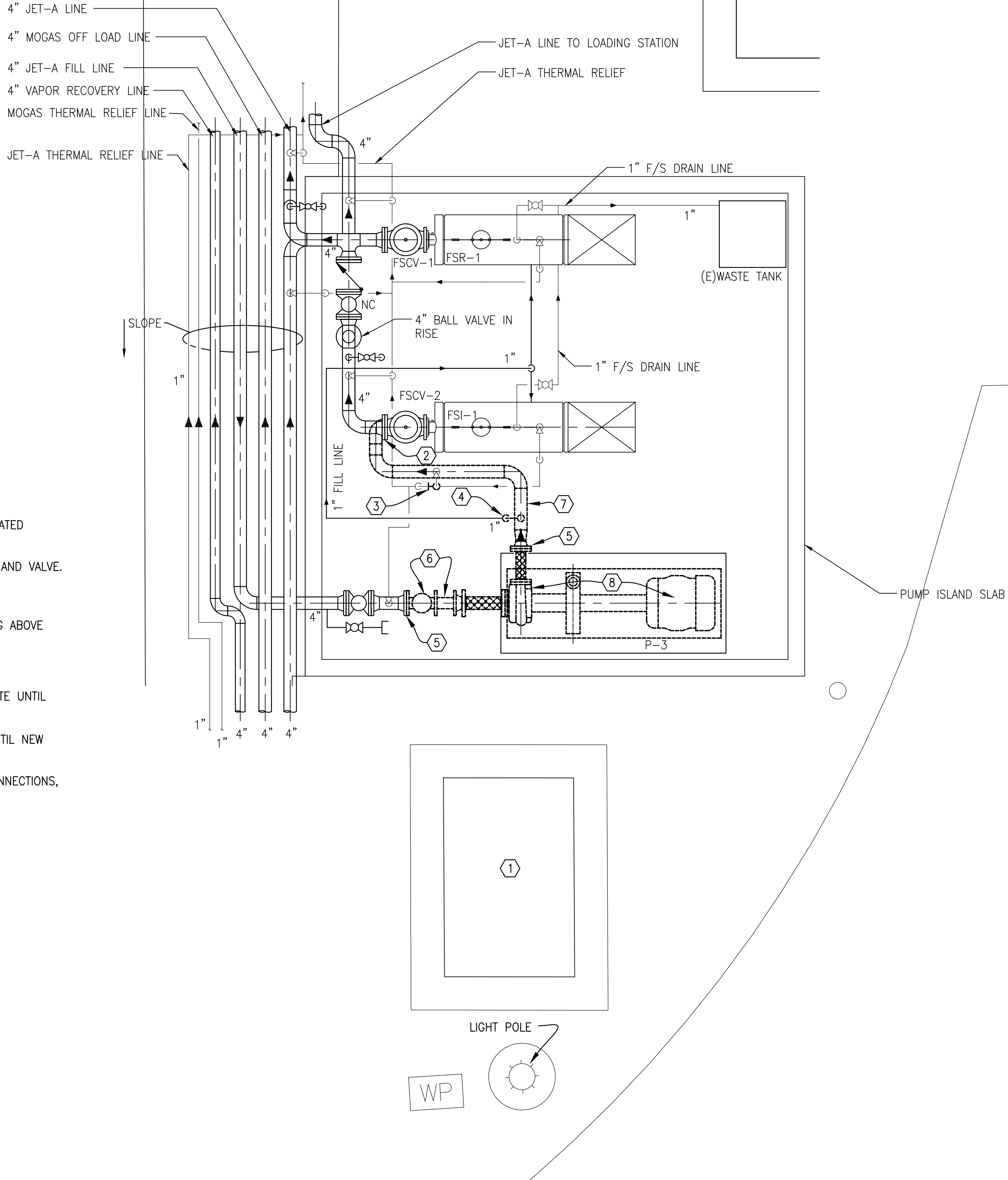
SCALE: AS NOTED

REVISIONS:			
NO.	DATE	BY	DESCRIPTION

RECORD DRAWINGS

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DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

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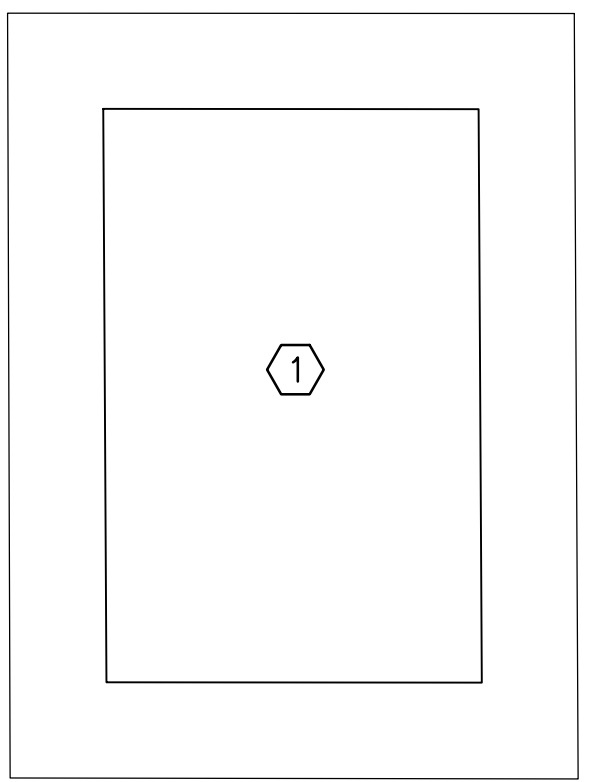


DEMOLITION NOTES:

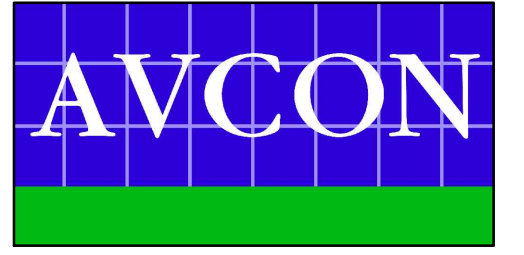
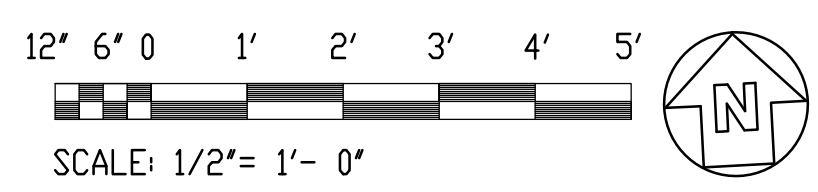
- ① 500 GALLON ABOVE GROUND WASTE TANK TO BE RELOCATED COMPLETE WITH PUMP.
- ② DISCONNECT PIPING AT FLANGE BELOW BETWEEN PIPING AND VALVE.
- ③ DISCONNECT 1" THERMAL RELIEF LINE AT FLANGE.
- ④ DISCONNECT 1" FILL LINE AT FLANGE IN VERTICAL PIPING ABOVE VALVE.
- ⑤ DISCONNECT PIPING AT FLANGE.
- ⑥ REMOVE 4" VALVE AND SPOOL PIECE AND RETAIN ON SITE UNTIL NEW PUMP IS IN SERVICE.
- ⑦ REMOVE SECTION OF 4" PIPING AND RETAIN ON SITE UNTIL NEW PIPING AND PUMP ARE IN SERVICE.
- ⑧ PUMP P-3 TO BE RELOCATED COMPLETE WITH FLEX CONNECTIONS, ALL ATTACHED COMPONENTS AND CONTROLS.

NOTES:

- 1. SEE NEW WORK NOTE NO. 10 ON SHEET P-103 BEFORE ANY DEMOLITION.
- 2. SEE SHEET P-105 FOR GENERAL NOTES.
- 3. ANY EXISTING PIPING OR EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO IT'S ORIGINAL FINISH.



PUMP ISLAND ENLARGED PLAN - DEMOLITION
 SCALE: 1/2" = 1'-0"



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FUEL FARM EXPANSION

PUMP ISLAND ENLARGED PLAN - DEMOLITION

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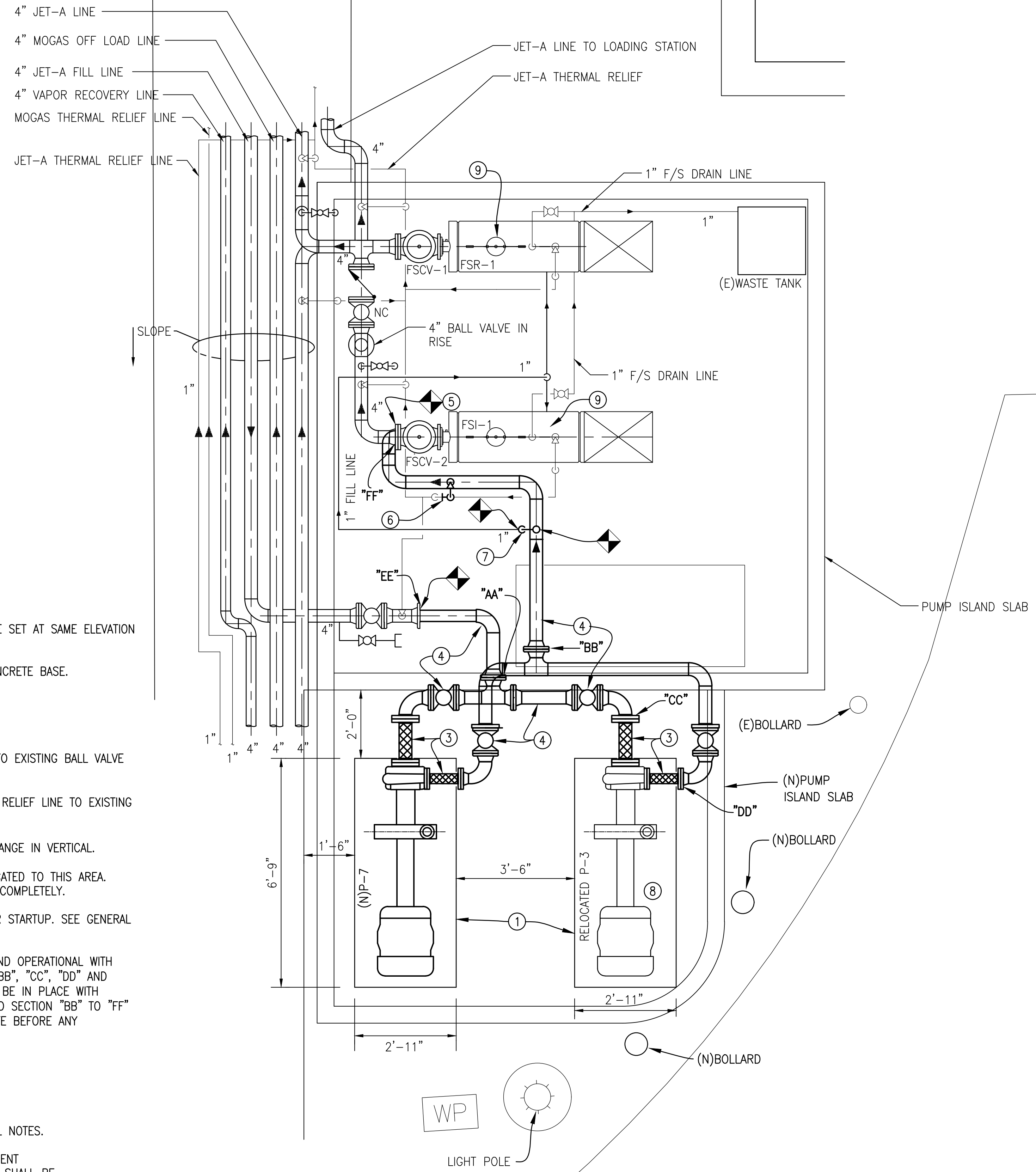
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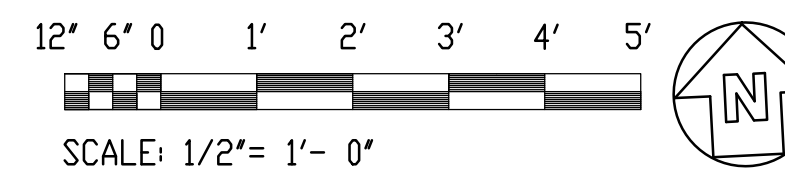
NEW WORK NOTES:

- ① NEW CONCRETE PUMP BASE TO BE SET AT SAME ELEVATION AS OLD BASE.
- ② SET NEW PUMP P-7 ON NEW CONCRETE BASE.
- ③ NEW FLEX CONNECTION.
- ④ NEW 4" PIPING AND BALL VALVES.
- ⑤ NEW 4" PIPE TO BE CONNECTED TO EXISTING BALL VALVE BELOW.
- ⑥ CONNECT NEW 1" JET A THERMAL RELIEF LINE TO EXISTING 1" FLANGE.
- ⑦ CONNECT NEW 1" FILL LINE AT FLANGE IN VERTICAL.
- ⑧ EXISTING PUMP P-3 TO BE RELOCATED TO THIS AREA. PUMP P-3 SHALL BE RELOCATED COMPLETELY.
- ⑨ FILTERS SHALL BE CHANGED AFTER STARTUP. SEE GENERAL NOTE NO. 11 ON SHEET P-105.
- ⑩ PUMP P-7 SHALL BE IN PLACE AND OPERATIONAL WITH PIPING SECTIONS BETWEEN "AA", "BB", "CC", "DD" AND CONNECTED TO PUMP P-7 SHALL BE IN PLACE WITH PIPING SECTIONS "AA" TO "EE" AND SECTION "BB" TO "FF" SHALL BE FABRICATED AND ON SITE BEFORE ANY DEMOLITION OF PUMP P-3.

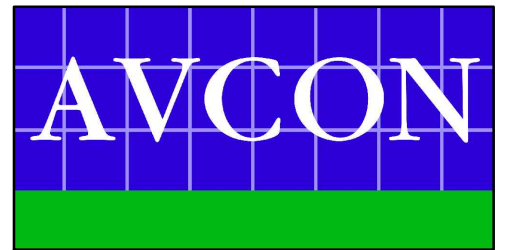
NOTES:

1. SEE SHEET P-105 FOR GENERAL NOTES.
2. ANY EXISTING PIPING OR EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO IT'S ORIGINAL FINISH.

PUMP ISLAND ENLARGED PLAN - NEW WORK
SCALE: 1/2"=1'-0"



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PUMP ISLAND ENLARGED PLAN - NEW WORK

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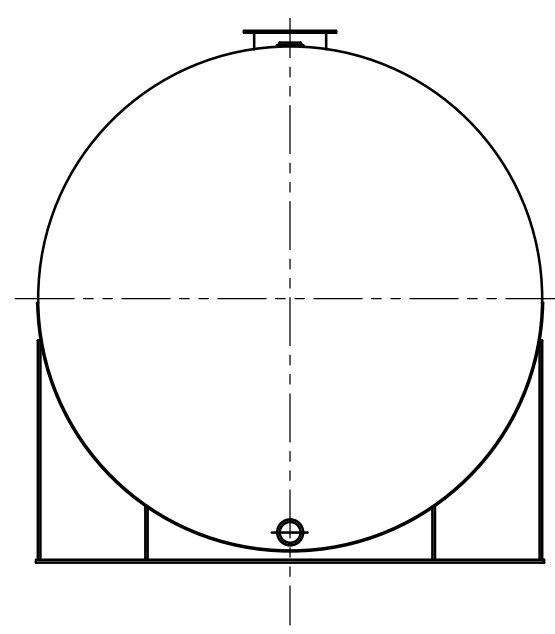
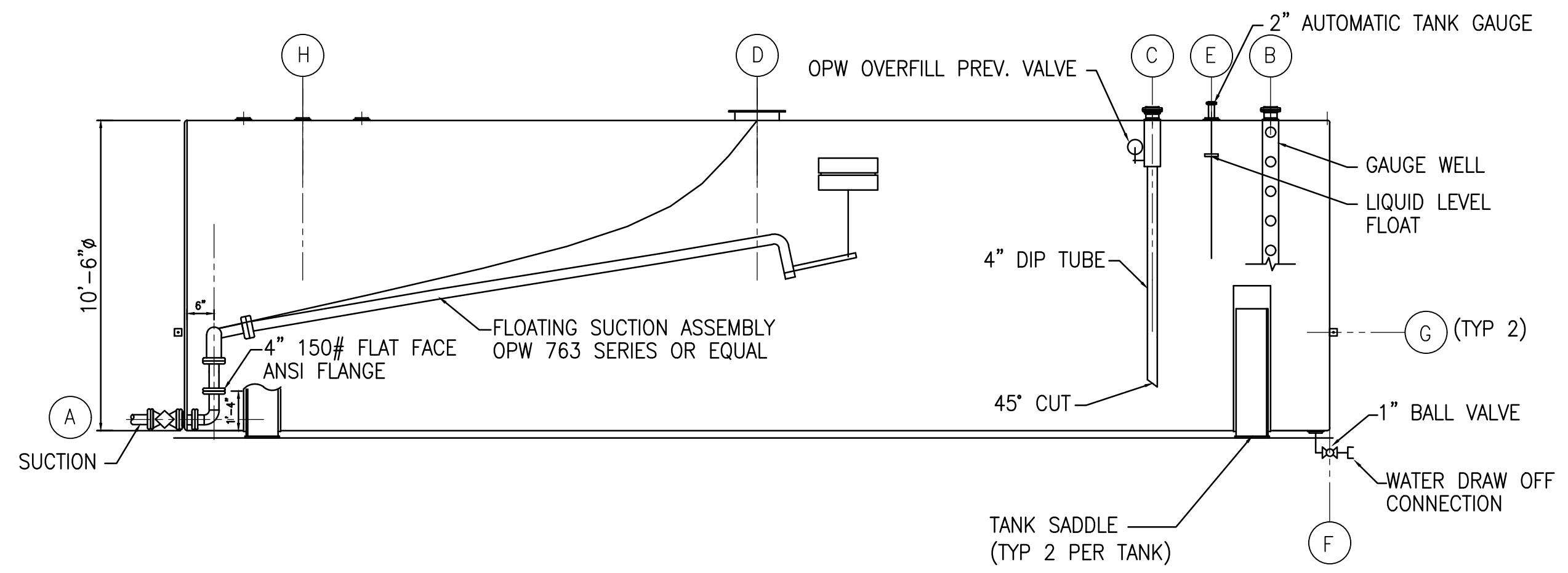
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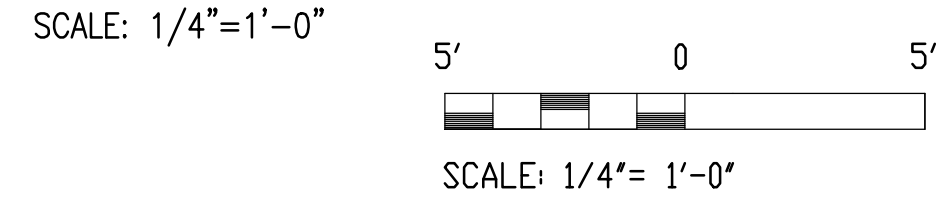
RECORD DRAWINGS

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DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

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JET A TANK SECTION 25,000 GAL. (TYPE 2)

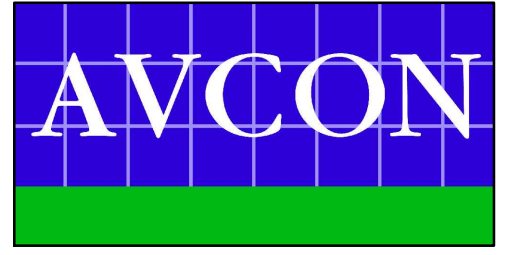


JET-A TANK NOZZLE SCHEDULE		
ITEM	SIZE	DESCRIPTION
A	4"	PUMP SUCTION - RF FLANGE
B	2"	ATMOSPHERIC VENT WITH GAUGE HATCH FOR DIP STICK
C	4"	FILL CONN - RF FLANGE
D	24"	MANWAY W/ BLIND FLANGE COVER
E	2"	ATG (AUTOMATIC TANK GAUGE) - RF FLANGE
F	1"	WATER DRAIN-OFF CONN. - 3000# THD CPLG.
G	-	GROUNDING LUG - 3"x3"x1/4" PLATE W/ 1/2"Ø HOLE - WELD TO TANK
H	4"	EMERGENCY VENT

NOTE: 6" NOZZLE PROJECTION (TYPICAL)

NOTES:

- SEE P-105 FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SCOPE OF WORK.
- MANWAYS SHALL BE PROVIDED WITH LONG BOLTS TO PROVIDE EMERGENCY RELIEF VENTING.
- CONTRACTOR SHALL ENSURE THAT MANWAY LADDER SHALL NOT IMPEDE OPERATION OF FLOATING SUCTION AND THAT FLOATING SUCTION DOES NOT IMPEDE ENTRY/USE OF MANWAY LADDER. LADDERS NOT SHOWN FOR CLARITY.
- THE CONTRACTOR SHALL INSTALL NEW LEAK DETECTION SENSORS IN BOTH NEW JET A TANKS, WHICH ARE COMPATIBLE WITH THE EXISTING VEEDER ROOT PANEL, AND MAKE ALL CONNECTIONS.



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P.E.I. JOB# 17042

DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

JET A TANK SECTION 25,000 GAL. (TYPE 2)

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DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

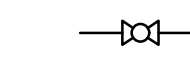
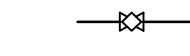
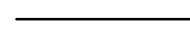
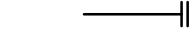
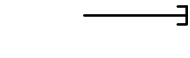
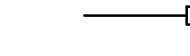
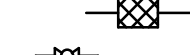
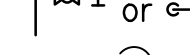
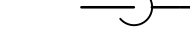
AVCON PROJECT NO. 2017.050.02

D:\PROJECT\2017\17042 VPS FUEL FARM EXPANSION\DWG\PLUMBING February 11, 2019

D:\PROJECT\2017\17042 VPS Fuel Farm Expansion\DWG\Plumbing\17042P-104.dwg, 2/11/2019 4:44:42 PM, joiner

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LEGEND

-  BALL VALVE
-  PLUG VALVE, DOUBLE BLOCK AND BLEED
-  ABOVEGROUND PIPE
-  BLIND FLANGE
-  CAP
-  QUICK CONNECTOR
-  FLEXIBLE CONNECTION
-  MANUAL AIR VENT
-  90 DEG ELBOW DOWN

ABBREVIATIONS

- F/S FILTER SEPARATOR
- FSCV FILTER SEPARATOR CONTROL VALVE
- E EXISTING
- N NEW
- RF RAISED FACE
- "A" LETTER INDICATES SEQUENCE OF WORK TO BE DONE. SEE NEW WORK NOTES.

GENERAL NOTES

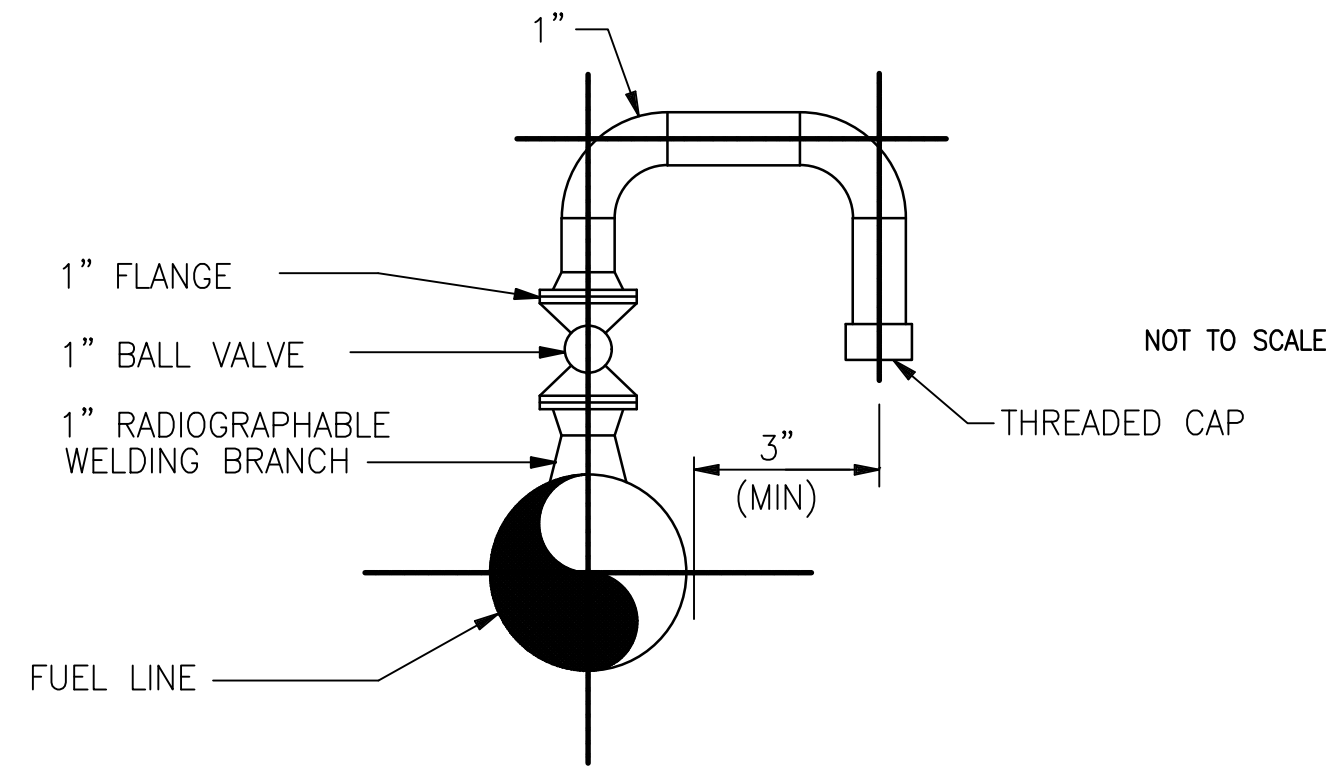
1. BEFORE SUBMITTING PROPOSALS, EACH BIDDER SHALL VISIT THE SITE, EXAMINE ALL DRAWINGS AND SPECIFICATIONS, FULLY FAMILIARIZE HIMSELF WITH ALL JOB CONDITIONS AND SHALL BE FULLY INFORMED AS TO THE EXTENT OF VERY LIMITED DOWN TIME AND OF HIS WORK. ALL OUTAGES SHALL BE WITHIN A 6 HOUR WINDOW AT NIGHT. ACTUAL HOURS OF OUTAGE SHALL BE COORDINATED WITH THE AIRPORT PRIOR TO INITIATING OUTAGE. NO CONSIDERATION SHALL BE GIVEN TO MISUNDERSTANDING OF THE REQUIREMENTS OF WORK INVOLVED.
2. THE CONTRACTOR SHALL VERIFY THE EXACT DIMENSIONS IN THE FIELD. FLANGES OF VALVES, PIPING AND EQUIPMENT (NEW AND EXISTING) SHALL MATCH BEFORE ANY EXISTING SERVICES ARE DISCONNECTED. ALL EXISTING PIPING AND EQUIPMENT TO BE REMOVED SHALL REMAIN ON SITE UNDAMAGED UNTIL NEW IS INSTALLED AND ONLINE.
3. IF FOR ANY REASON IT LOOKS LIKE THE NEW SYSTEM CANNOT BE PUT IN SERVICE IN THE ALLOTTED TIME, THE EXISTING SYSTEM SHALL REMAIN IN SERVICE.
4. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. NOT ALL COMPONENTS ARE SHOWN IN ALL VIEWS. THE CONTRACTOR SHALL MAKE USE OF THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND INCLUDE ALL COMPONENTS TO CONSTRUCT A FULLY OPERATIONAL FUELING SYSTEM.
5. THE CONTRACTOR SHALL DEVELOP TO SCALE PIPE FABRICATION SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY INSTALLATION.
6. WRITTEN DIMENSIONS ON DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACT SHALL FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
7. THE CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
8. AT START OF CONSTRUCTION, THE CONTRACTOR AND EACH OF HIS SUBCONTRACTORS SHALL PREPARE TYPED LISTS OF ALL EQUIPMENT THAT THEY ARE SUPPLYING WHICH REQUIRE ELECTRICAL WORK, AND SEND LISTS TO THE ELECTRICAL CONTRACTOR FOR HIS REVIEW AND COORDINATION.
9. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE.
10. INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT.
11. AFTER COMPLETION OF WORK, THE FUEL SYSTEM SHALL BE CYCLED TO CAPTURE ANY DEBRIS IN THE PIPING SYSTEM BEFORE REMOVAL OF THE EXISTING FILTER MEDIA AND REPLACE FILTER MEDIA WITH NEW.
12. THE CONTRACTOR SHALL COORDINATE AND OBTAIN HOT WORK PERMITS WITH EGLIN AFB AND OKALOOSA COUNTY FIRE INSPECTOR BEFORE BEGINNING ANY WELDING ON SITE.

SCOPE:

THE MECHANICAL SCOPE INCLUDES BUT IS NOT LIMITED TO:
INSTALLATION OF (2) NEW 25,000 GALLON JET-A TANKS AND PUMPS.

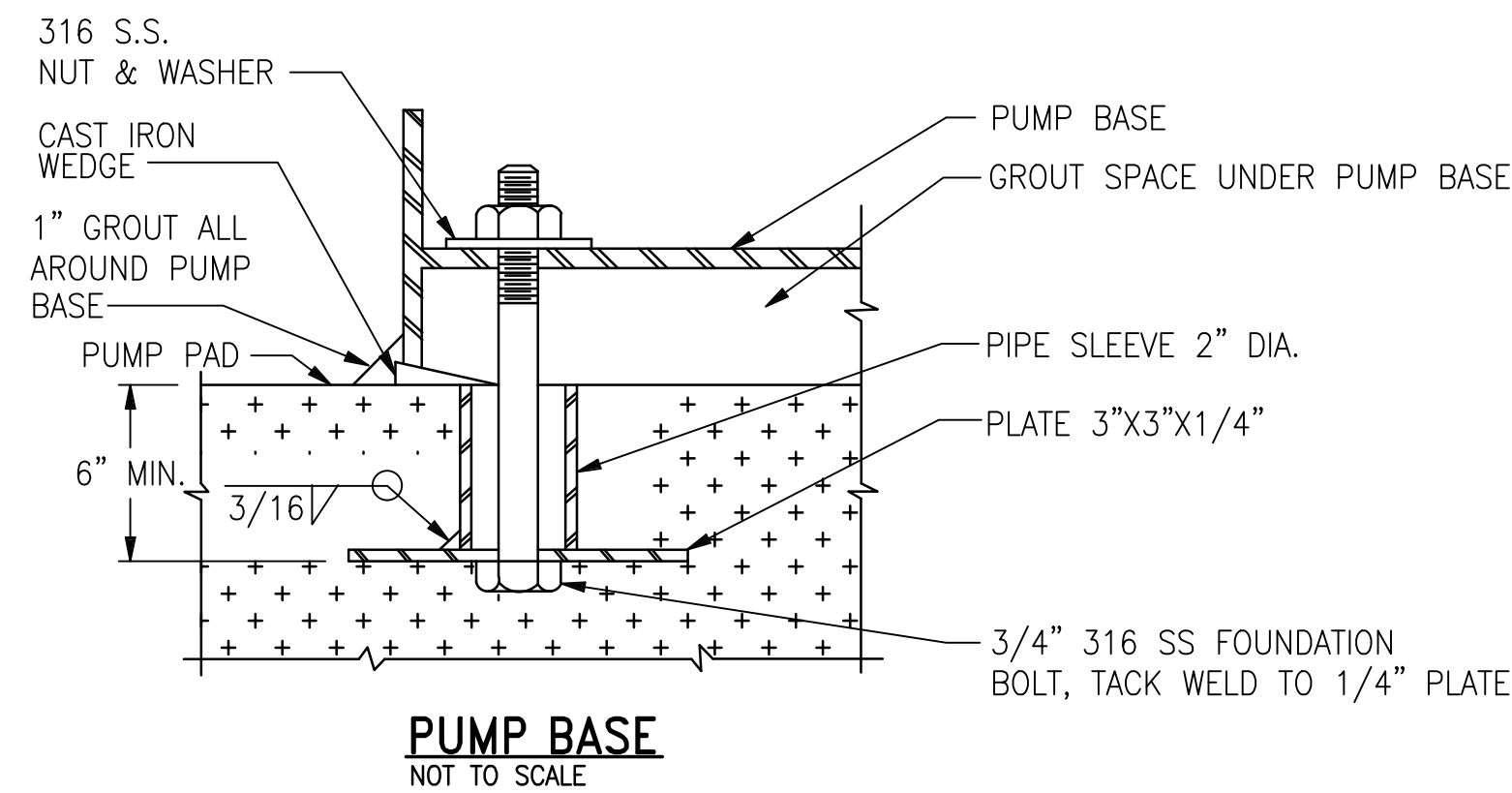
PUMP SCHEDULE

DESIGNATION	SERVES	TYPE	SERVICE	FLOW GPM	FT. HEAD	MOTOR HP
P-7	LOADING	SELF PRIMING CENTRIFUGAL	JET-A	300	192	40



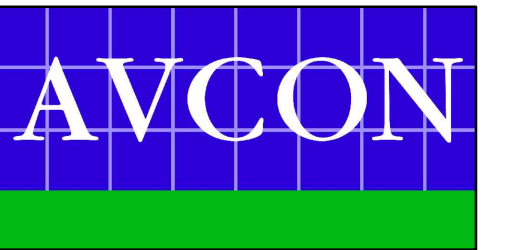
- NOTES:**
1. BALL VALVE MAY BE LOCATED IN HORIZONTAL RUN OF VENT PIPE.

MANUAL AIR VENT
NOT TO SCALE



PUMP BASE
NOT TO SCALE

OKALOOSA COUNTY AIRPORTS



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

DETAILS

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REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	5/17/18	JDC	CHANGED PUMP HP

RECORD DRAWINGS

DESIGNED BY: J.R.C.
DRAWN BY: S.M.M.
CHECKED BY: J.R.C.
APPROVED BY: V.C.L.
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

P-105

J:\2017\044-VPS FUELS PROJECT\DRAWINGS\ELECTRICAL February 5, 2019

ELECTRICAL GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE, FLORIDA BUILDING CODE, AND ALL LOCAL CODES.
2. ALL ELECTRICAL WORK AND MATERIALS USED IN THIS PROJECT SHALL BE NEW, UNDERWRITERS' LABORATORIES (UL) LISTED AND LABELED, AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
3. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED.
4. ALL NEW CONDUITS RUN UNDERGROUND SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" UNLESS NOTED OTHERWISE.
5. FURNISH 1/4" NYLON PULL ROPE IN ALL EMPTY CONDUITS FOR PULLING OF CONDUCTORS/CABLES.
6. WHERE CONFLICTS OCCUR ON ELECTRICAL DRAWINGS BETWEEN DRAWINGS, SPECIFICATIONS AND CODES, THE MOST STRINGENT REQUIREMENT THAT APPLIES SHALL BE ADHERED TO.
7. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL IMMEDIATELY NOTIFY THE GOVERNMENT INSPECTOR OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM THE WORK AS SHOWN AND SPECIFIED.
8. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
9. ALL NEW EQUIPMENT, JUNCTION BOXES, ETC SHALL BE FURNISHED WITH LAMINATED PLASTIC NAMEPLATES. NAMEPLATES SHALL BE MELAMINE PLASTIC, 0.125" THICK, WHITE WITH BLACK CENTER CORE. SURFACE SHALL BE MATTE FINISHED. CORNERS SHALL BE SQUARE. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO THE CORE. MINIMUM SIZE OF NAMEPLATES SHALL BE 1" X 2 1/2". LETTERING SHALL BE A MINIMUM OF .25" HIGH, NORMAL BLOCK STYLE. FASTEN NAMEPLATES WITH A MINIMUM OF TWO SHEET-METAL SCREWS OR TWO RIVETS, PER NAMEPLATE. COORDINATE NAMEPLATE VERBIAGE WITH VPS PERSONNEL.
10. WORKING SPACE OF 36" FOR 208/120 VOLT SYSTEMS SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL PANELS AND DEVICES.
11. NEW SAFETY SWITCH DISCONNECTS SHALL BE MOUNTED AT 48" A.F.F. TO CENTER AND SHALL HAVE 3'-0" MIN. OF WORKING SPACE IN FRONT OF DISCONNECT.
12. USE OF SERIES RATED CIRCUIT BREAKERS IS NOT ALLOWED.
13. USE OF PLUG-IN CIRCUIT BREAKERS IS NOT ALLOWED.
14. OBTAIN ALL PERMITS REQUIRED BY THE LOCAL JURISDICTION.
15. PROVIDE OPERATORS & ENCLOSURES SUITABLE FOR CONTROL STATION LOCATION: EXPLOSION-PROOF (NEMA 7) FOR HAZARDOUS CLASSIFIED LOCATIONS; WEATHERPROOF (NEMA 4) FOR OUTDOOR NON-HAZARDOUS LOCATIONS; AND GENERAL PURPOSE (NEMA 12) FOR INDOOR NON-HAZARDOUS LOCATIONS.
16. LOCATE ALL UTILITIES PRIOR TO DIGGING.
17. INSTALL ALL CONDUIT, DEVICES, EQUIPMENT, ETC PER NFPA 70 (NATIONAL ELECTRIC CODE) ARTICLES 501, 502 AND 514. A LISTED SEALED FITTING SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM THE EARTH OR CONCRETE. IF A CONDUIT ENTERS A HAZARDOUS LOCATION A SEAL MUST BE PROVIDED ON BOTH CONDUIT ENDS REGARDLESS IF ONE OR BOTH ENDS ARE IN A NON-HAZARDOUS SPACE.

ELECTRICAL LEGEND

- EXISTING 3/4" X 10"-0" COPPERCLAD GROUND ROD, 18" BELOW FINISHED GRADE.
- G — EXISTING #1/0 BARE COPPER GROUND CONDUCTOR, UIO
- G4 — EXISTING #4/0 BARE COPPER GROUND CONDUCTOR
- NG — NEW #4/0 BARE COPPER GROUND CONDUCTOR
- N ● NEW 3/4" X 10"-0" COPPERCLAD GROUND ROD, 18" BELOW FINISHED GRADE.

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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

ELECTRICAL GENERAL NOTES AND LEGEND

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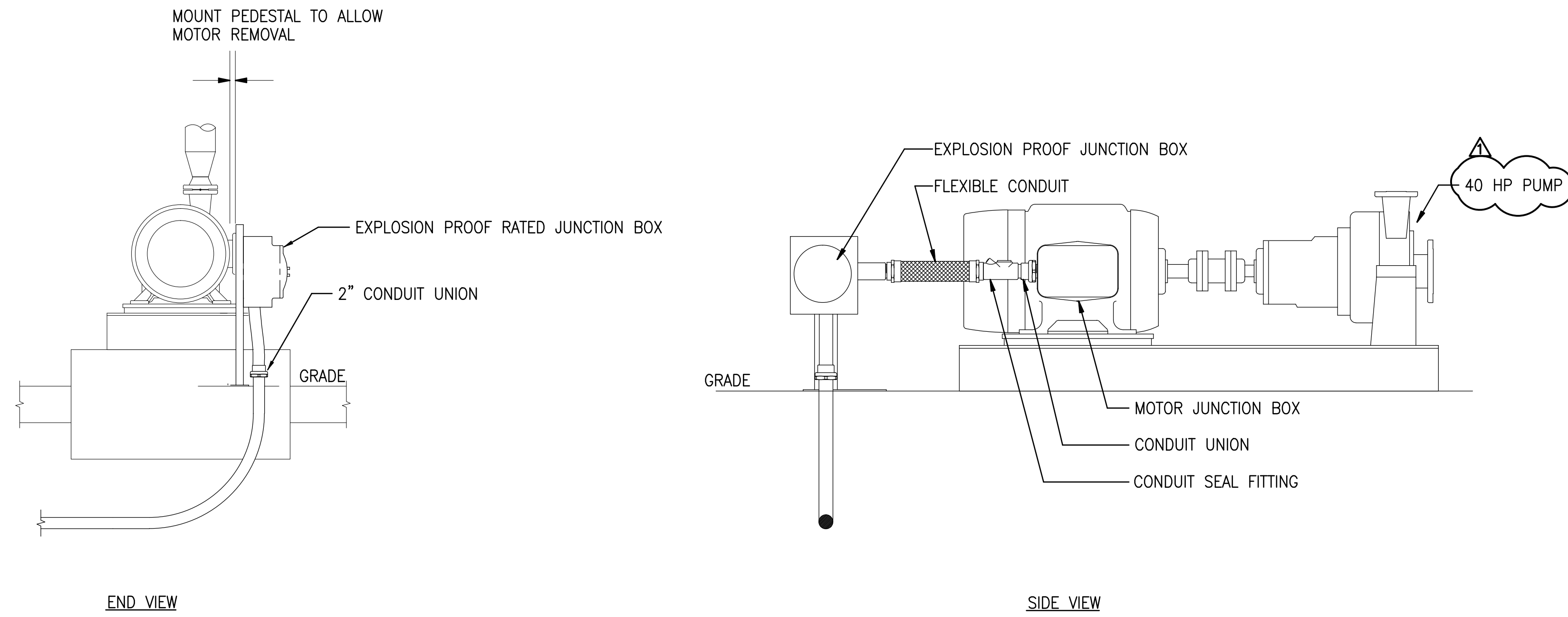
RECORD DRAWINGS

DESIGNED BY: D. BAGWELL
DRAWN BY: C. COLEMAN
CHECKED BY: D. BAGWELL
APPROVED BY: D. BAGWELL
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02
SHEET NUMBER
E-001

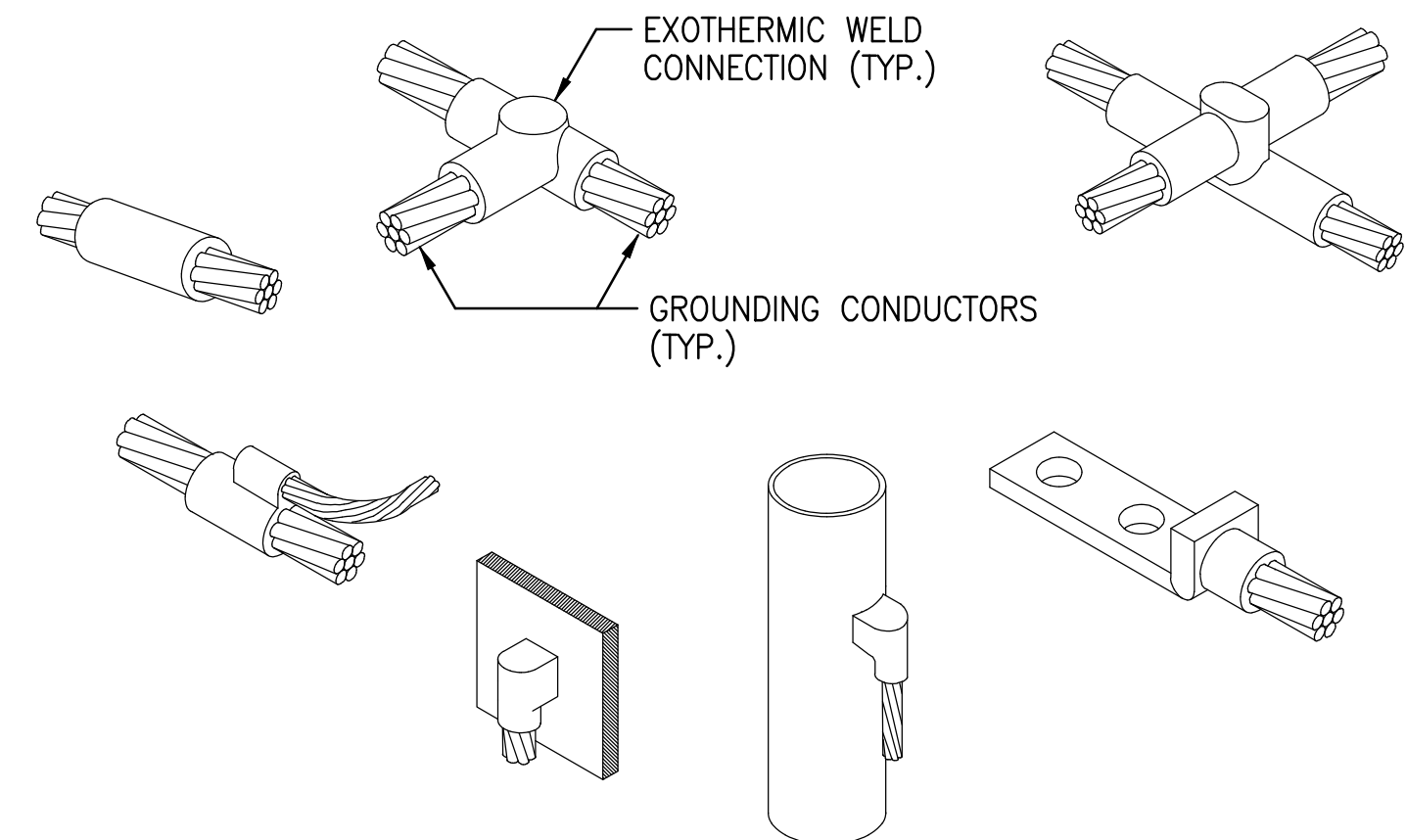
GENERAL NOTES:

1. PROVIDE OPERATORS & ENCLOSURES SUITABLE FOR CONTROL STATION LOCATION: EXPLOSION-PROOF (NEMA 7) FOR HAZARDOUS CLASSIFIED LOCATIONS; WEATHERPROOF (NEMA 4) FOR OUTDOOR NON-HAZARDOUS LOCATIONS; AND GENERAL PURPOSE (NEMA 12) FOR INDOOR NON-HAZARDOUS LOCATIONS.
2. ALL MOUNTING HARDWARE SHALL BE CORROSION RESISTANT.



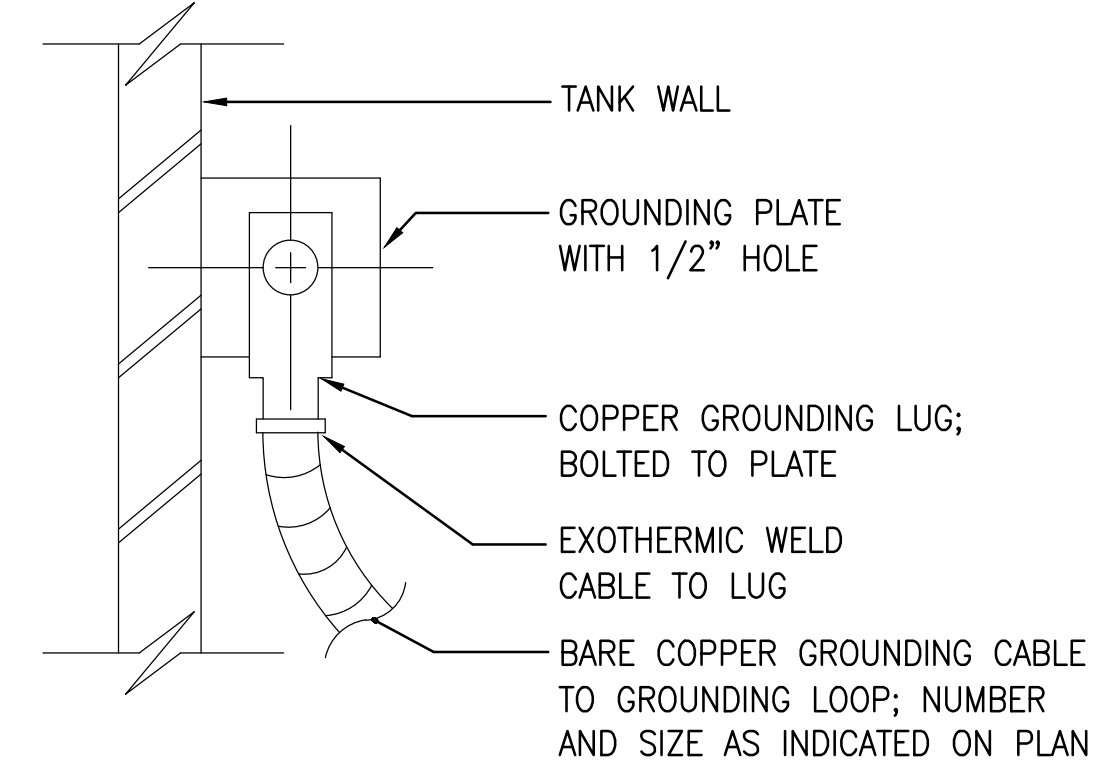
JET-A ONLOAD PUMP CONNECTION DETAIL

NOT TO SCALE



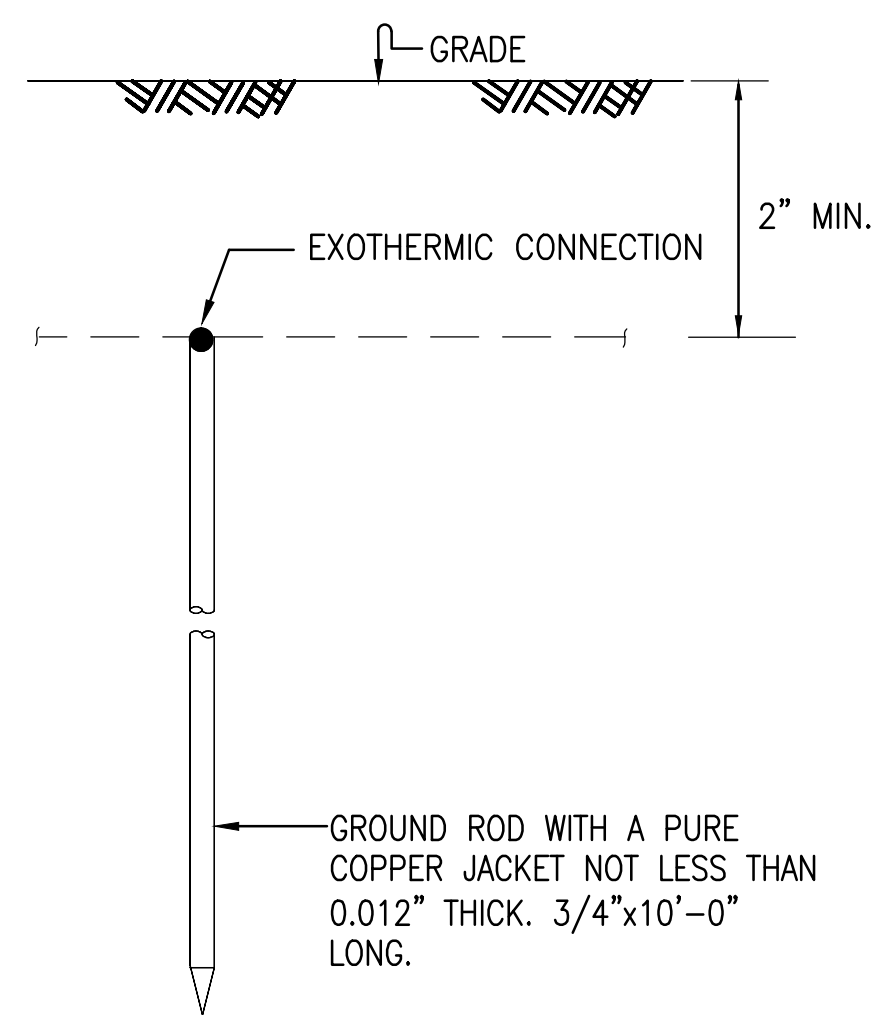
TYPICAL GROUND CABLE CONNECTIONS

NOT TO SCALE



TYPICAL TANK GROUND CONNECTIONS

NOT TO SCALE



TYPICAL GROUND ROD

NOT TO SCALE



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FL Authorization No. 30167
FL PE No. 59251
Phone: (850) 462-8040 Job Number: 17-044

DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

ELECTRICAL DETAILS

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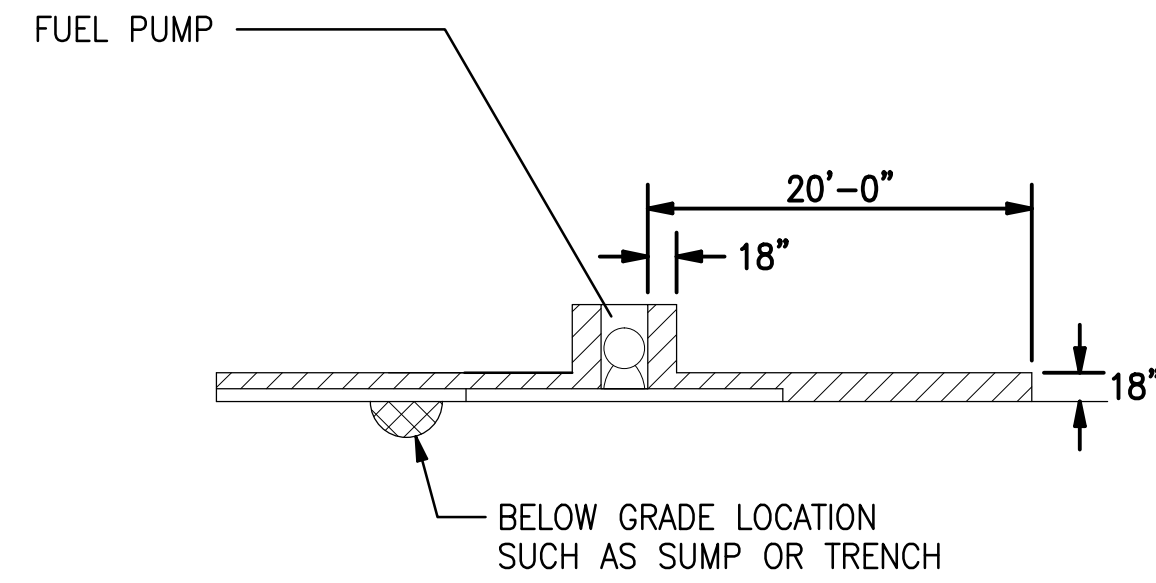
RECORD DRAWINGS

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DRAWN BY: C. COLEMAN
CHECKED BY: D. BAGWELL
APPROVED BY: D. BAGWELL
DATE: FEBRUARY 2019

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SHEET NUMBER

E-002



FUEL PUMP HAZARDOUS CLASSIFICATION DETAIL

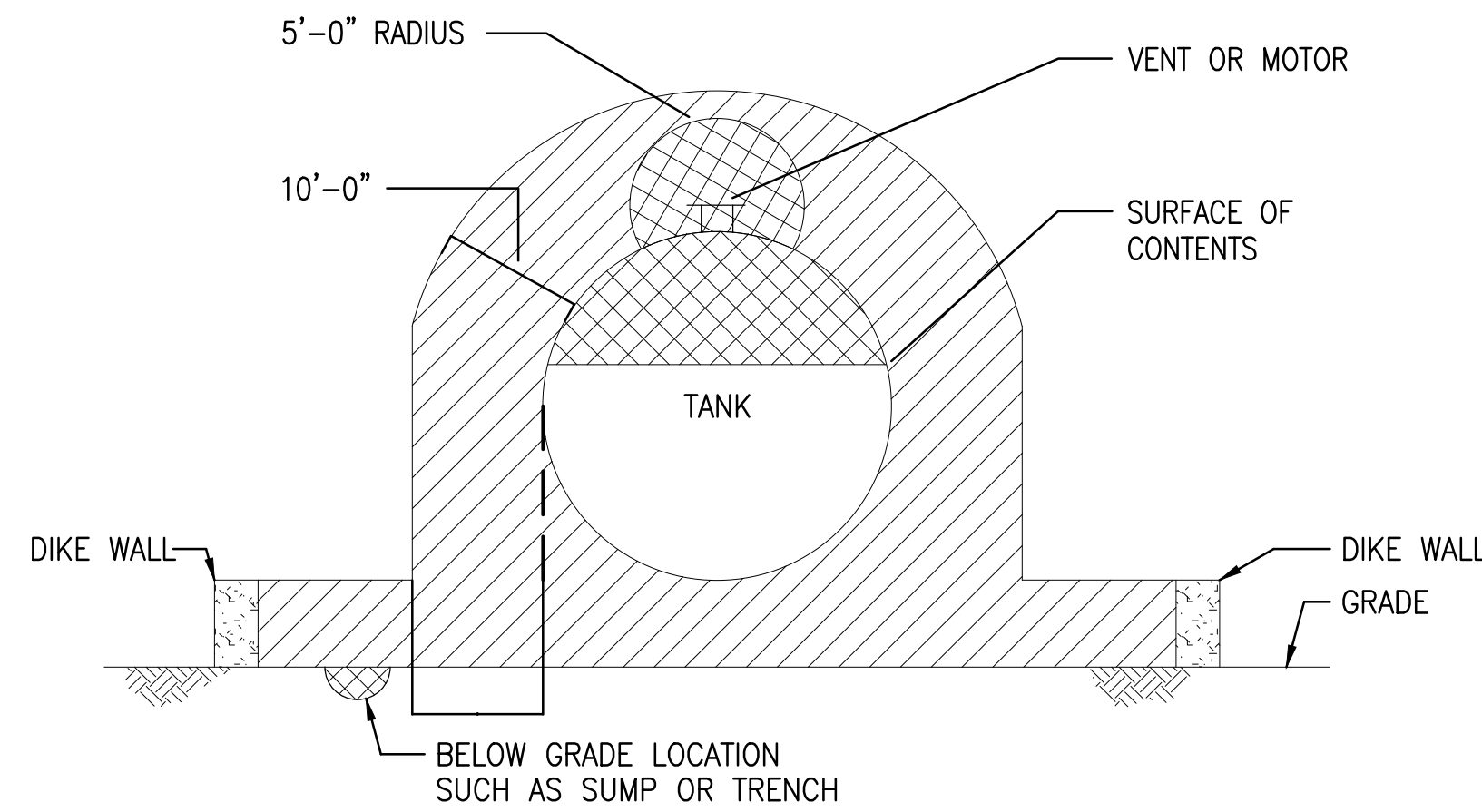
NOT TO SCALE

CLASSIFICATION LEGEND:

- CLASS 1, DIVISION 1, GROUP D HAZARDOUS AREA (T2D, 251°C (419°F) MAX.)
- CLASS 1, DIVISION 2, GROUP D HAZARDOUS AREA (T2D, 251°C (419°F) MAX.)
- NONCLASSIFIED AREA

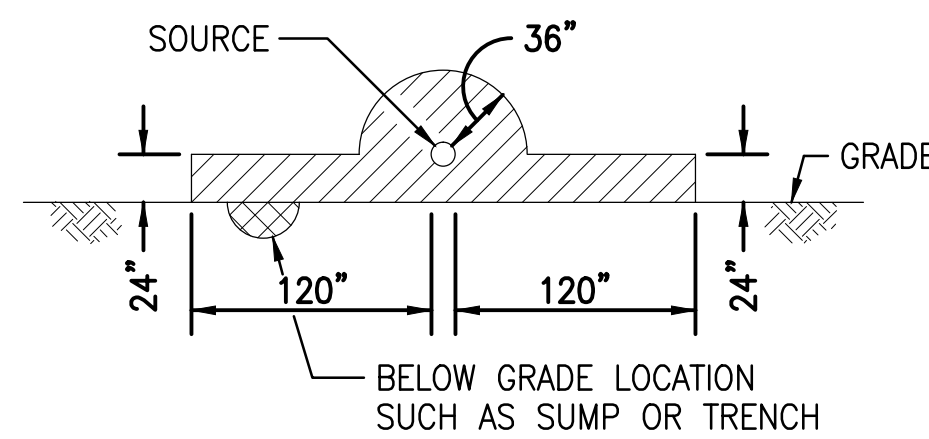
NOTES:

1. ALL ELECTRICAL WORK IN HAZARDOUS AREAS SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 501 FOR CLASSIFICATION INDICATED.
2. DETAIL APPLIES TO ABOVEGROUND PIPING WITH VALVES, SCREWED FITTINGS, FLANGES OR SIMILAR ACCESSORIES. REFER TO CIVIL AND MECHANICAL PLANS FOR PIPING.



ABOVE GROUND TANK HAZARDOUS CLASSIFICATION DETAIL

NOT TO SCALE



ABOVE GROUND PIPING HAZARDOUS CLASSIFICATION DETAIL

NOT TO SCALE

EXISTING PANEL: LTF		VOLTAGE: 208Y/120 VOLT, 3PH, 4W		MOUNTING: SURFACE, NEMA 3R		MINIMUM AIC RATING: 10 KAIC			
SQUARE D NQOD PANEL		MAINS: 225A MAIN CIRCUIT BREAKER							
DEVICE	BRANCH CIRCUIT					BRANCH CIRCUIT	DEVICE		
AMP TRIP	POLES	DESIGNATION	CONN. VA	NO.	NO.	CONN. VA	DESIGNATION	POLES	AMP TRIP
				1		2	FUEL FARM LIGHTS	2	20
				3		4			
90	3	JET-A OFFLOAD PUMP		5		6	FUEL FARM LIGHT CONTROL	1	20
				7		8	VEEDER ROOT ALARM	1	20
				9		10	GATE CONTROL RECEPT	1	20
				11		12	DIESEL PUMP	1	20
60	2	SPARE		13		14			
				15		16	FUEL OPERATOR SHED	3	60
20	1	EMERGENCY STOP		17		18			
15	1	GENERATOR LTS/RECEP		19		20	FILL VALVE ACTUATOR	1	20
				21		22	RECEPTACLE	1	20
60	3	MOGAS OFFLOAD PUMP		23		24	CCTV RECEPTACLES	1	20
				25		26	CANOPY LIGHTS	1	20
20	2	GATE OPERATOR FED FROM LTF		27		28	SPACE		
				29		30	SPACE		
20	2	GATE OPERATOR FED FROM LTF		31		32	SPACE		
				33		34	SPACE		
	1	SPACE		35		36	SPACE		
	1	SPACE		37		38	SPACE		
	1	SPACE		39		40	UNUSABLE SPACE		
	1	UNUSABLE SPACE		41		42	UNUSABLE SPACE		
						BOTTOM	JET-A ONLOAD PUMP	3	125

PANEL: LTF
 NOTES: ALL DATA SHOWN IN PANEL SCHEDULE IS EXISTING AND FOR INFORMATION ONLY, UNLESS NOTED OTHERWISE

OKALOOSA COUNTY AIRPORTS



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

HAZARDOUS LOCATION DETAILS AND PANEL SCHEDULE

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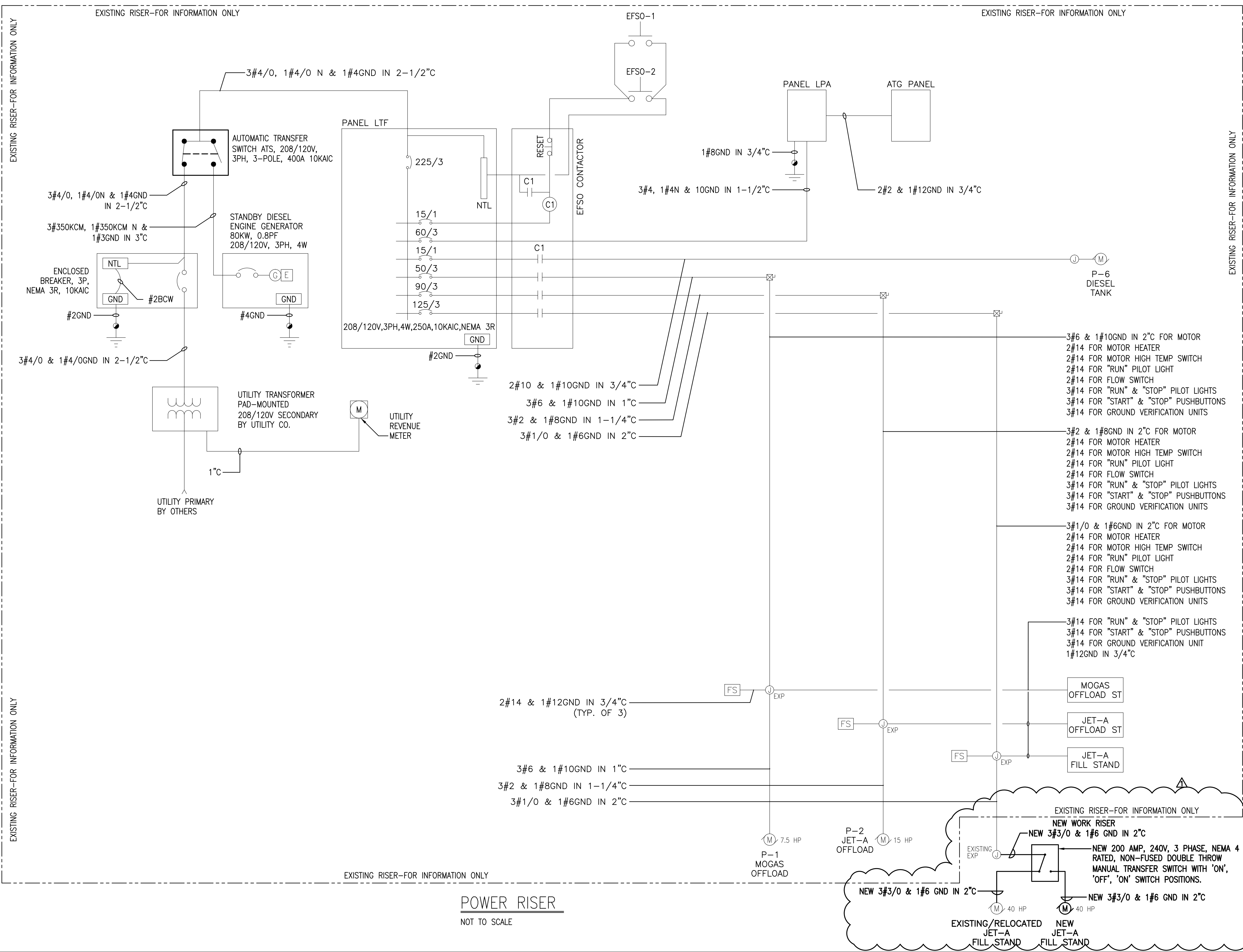
DESIGNED BY: D. BAGWELL
 DRAWN BY: C. COLEMAN
 CHECKED BY: D. BAGWELL
 APPROVED BY: D. BAGWELL
 DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

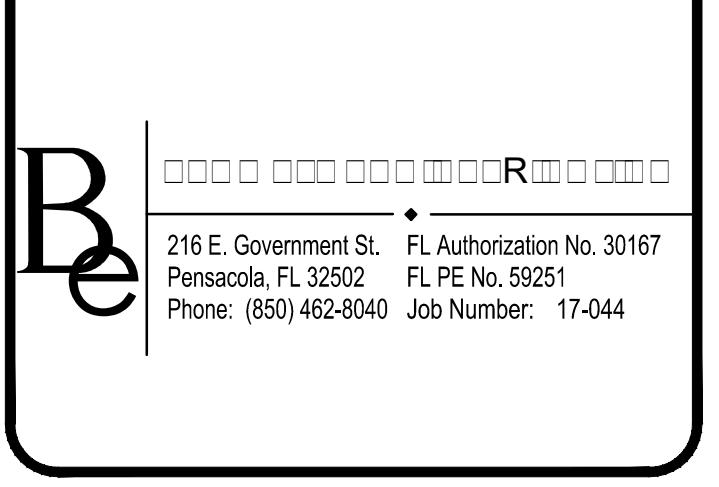
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E-003

J:\20170444-VPS FUELS PROJECT\DRAWINGS\ELECTRICAL February 5, 2019



POWER RISER
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DESTIN-FORT WALTON BEACH AIRPORT
FUEL FARM EXPANSION
POWER RISER

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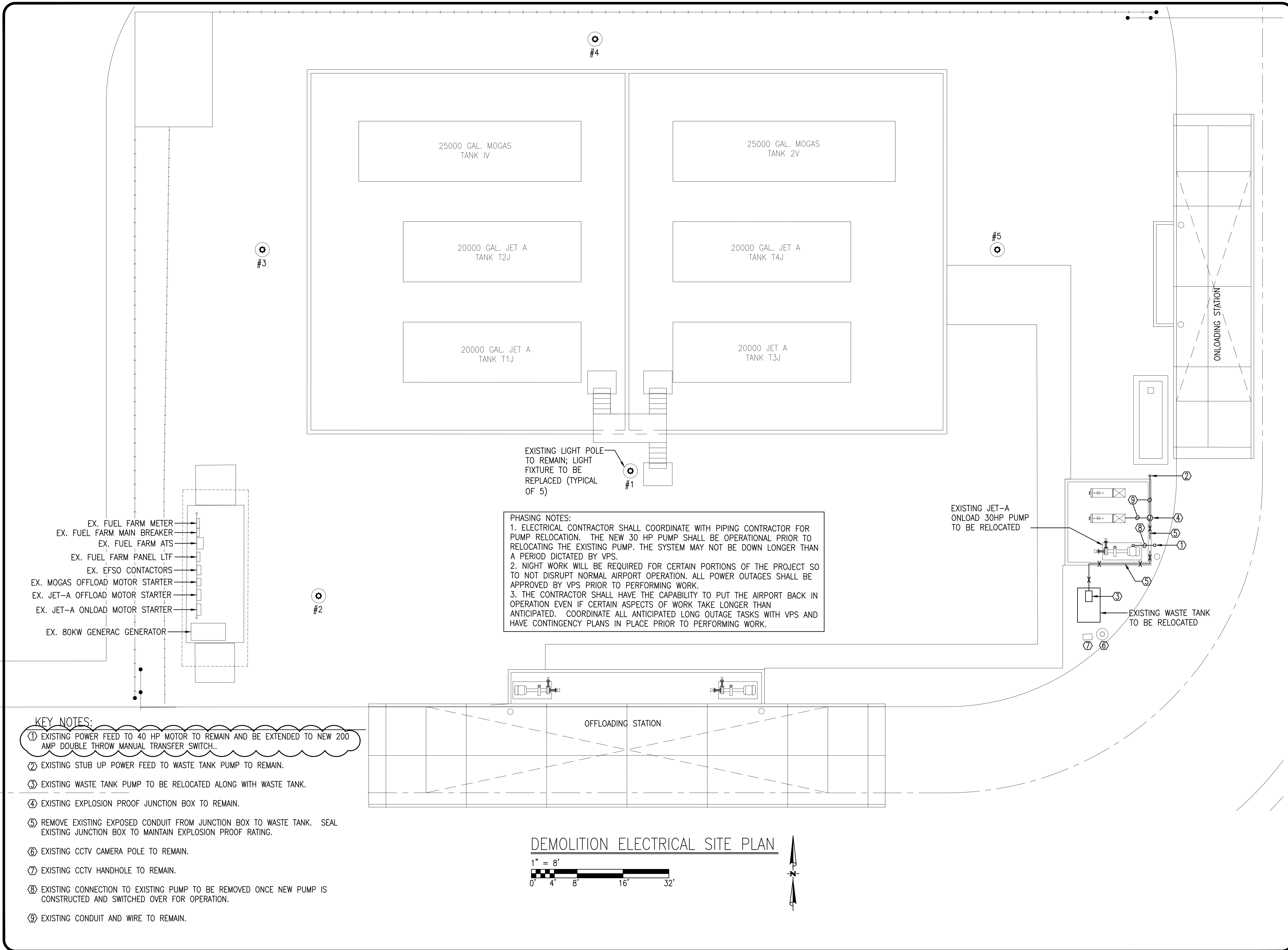
NO.	DATE	BY	DESCRIPTION
Δ	5/17/18	DB	CHNG MTR TO 40HP

RECORD DRAWINGS

DESIGNED BY: D. BAGWELL
DRAWN BY: C. COLEMAN
CHECKED BY: D. BAGWELL
APPROVED BY: D. BAGWELL
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02
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E-004

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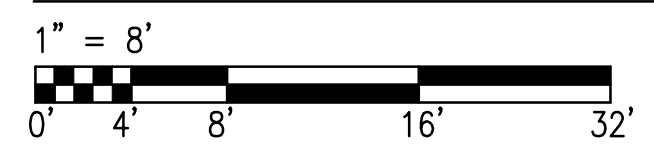


- KEY NOTES:**
- ① EXISTING POWER FEED TO 40 HP MOTOR TO REMAIN AND BE EXTENDED TO NEW 200 AMP DOUBLE THROW MANUAL TRANSFER SWITCH..
 - ② EXISTING STUB UP POWER FEED TO WASTE TANK PUMP TO REMAIN.
 - ③ EXISTING WASTE TANK PUMP TO BE RELOCATED ALONG WITH WASTE TANK.
 - ④ EXISTING EXPLOSION PROOF JUNCTION BOX TO REMAIN.
 - ⑤ REMOVE EXISTING EXPOSED CONDUIT FROM JUNCTION BOX TO WASTE TANK. SEAL EXISTING JUNCTION BOX TO MAINTAIN EXPLOSION PROOF RATING.
 - ⑥ EXISTING CCTV CAMERA POLE TO REMAIN.
 - ⑦ EXISTING CCTV HANDHOLE TO REMAIN.
 - ⑧ EXISTING CONNECTION TO EXISTING PUMP TO BE REMOVED ONCE NEW PUMP IS CONSTRUCTED AND SWITCHED OVER FOR OPERATION.
 - ⑨ EXISTING CONDUIT AND WIRE TO REMAIN.

PHASING NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PIPING CONTRACTOR FOR PUMP RELOCATION. THE NEW 30 HP PUMP SHALL BE OPERATIONAL PRIOR TO RELOCATING THE EXISTING PUMP. THE SYSTEM MAY NOT BE DOWN LONGER THAN A PERIOD DICTATED BY VPS.
2. NIGHT WORK WILL BE REQUIRED FOR CERTAIN PORTIONS OF THE PROJECT SO TO NOT DISRUPT NORMAL AIRPORT OPERATION. ALL POWER OUTAGES SHALL BE APPROVED BY VPS PRIOR TO PERFORMING WORK.
3. THE CONTRACTOR SHALL HAVE THE CAPABILITY TO PUT THE AIRPORT BACK IN OPERATION EVEN IF CERTAIN ASPECTS OF WORK TAKE LONGER THAN ANTICIPATED. COORDINATE ALL ANTICIPATED LONG OUTAGE TASKS WITH VPS AND HAVE CONTINGENCY PLANS IN PLACE PRIOR TO PERFORMING WORK.

DEMOLITION ELECTRICAL SITE PLAN



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

DEMOLITION ELECTRICAL SITE PLAN

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SCALE: AS NOTED

REVISIONS:

NO.	DATE	BY	DESCRIPTION
Δ	5/17/18	DB	CHNG MTR TO 40HP

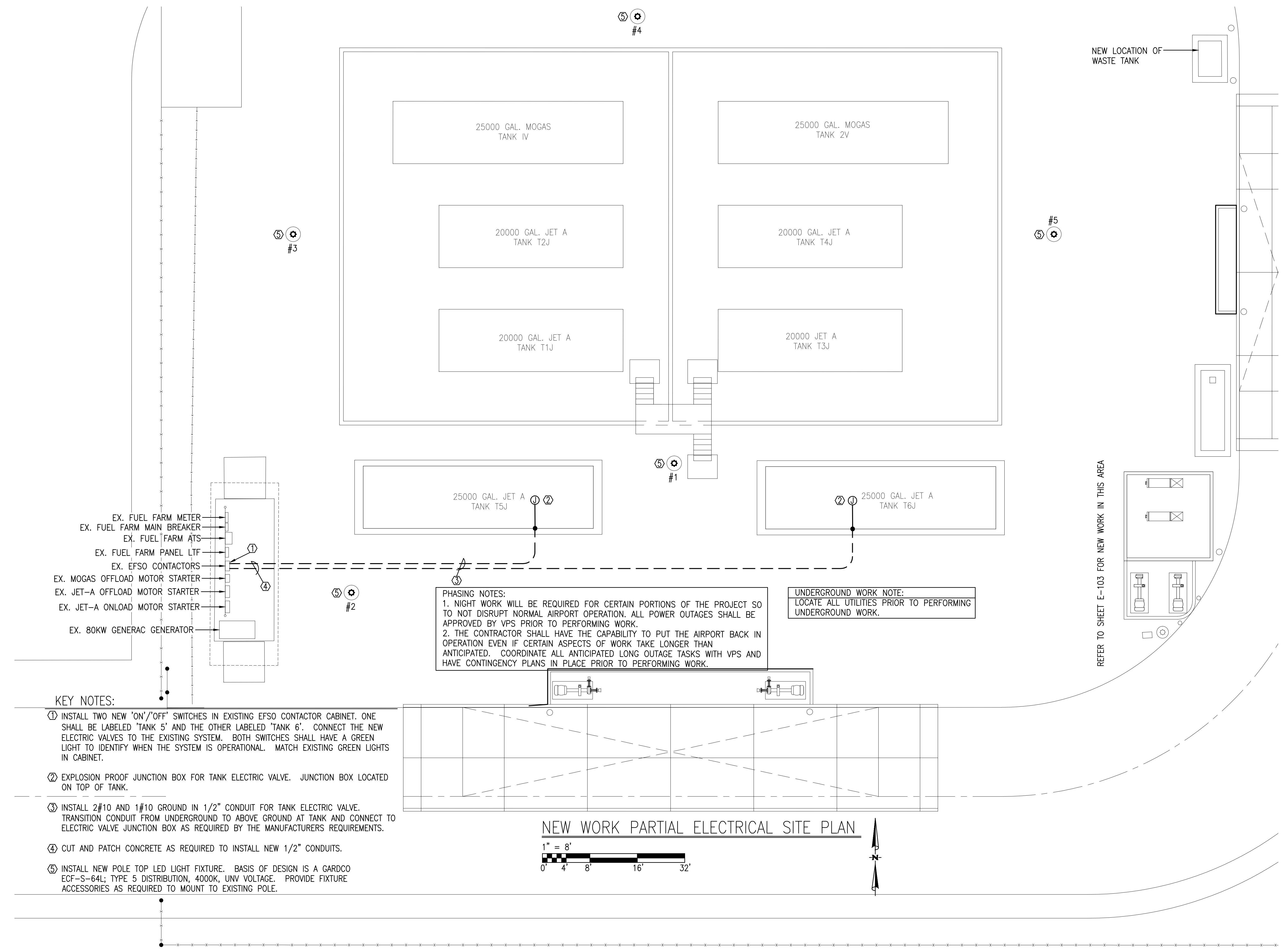
RECORD DRAWINGS

DESIGNED BY: D. BAGWELL
DRAWN BY: C. COLEMAN
CHECKED BY: D. BAGWELL
APPROVED BY: D. BAGWELL
DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER E-101

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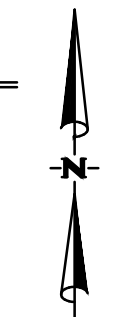
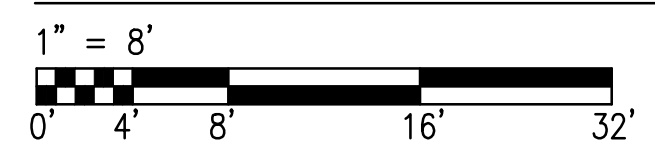
KEY NOTES:

- ① INSTALL TWO NEW 'ON'/'OFF' SWITCHES IN EXISTING EFSO CONTACTOR CABINET. ONE SHALL BE LABELED 'TANK 5' AND THE OTHER LABELED 'TANK 6'. CONNECT THE NEW ELECTRIC VALVES TO THE EXISTING SYSTEM. BOTH SWITCHES SHALL HAVE A GREEN LIGHT TO IDENTIFY WHEN THE SYSTEM IS OPERATIONAL. MATCH EXISTING GREEN LIGHTS IN CABINET.
- ② EXPLOSION PROOF JUNCTION BOX FOR TANK ELECTRIC VALVE. JUNCTION BOX LOCATED ON TOP OF TANK.
- ③ INSTALL 2#10 AND 1#10 GROUND IN 1/2" CONDUIT FOR TANK ELECTRIC VALVE. TRANSITION CONDUIT FROM UNDERGROUND TO ABOVE GROUND AT TANK AND CONNECT TO ELECTRIC VALVE JUNCTION BOX AS REQUIRED BY THE MANUFACTURERS REQUIREMENTS.
- ④ CUT AND PATCH CONCRETE AS REQUIRED TO INSTALL NEW 1/2" CONDUITS.
- ⑤ INSTALL NEW POLE TOP LED LIGHT FIXTURE. BASIS OF DESIGN IS A GARDCO ECF-S-64L; TYPE 5 DISTRIBUTION, 4000K, UNV VOLTAGE. PROVIDE FIXTURE ACCESSORIES AS REQUIRED TO MOUNT TO EXISTING POLE.

PHASING NOTES:
 1. NIGHT WORK WILL BE REQUIRED FOR CERTAIN PORTIONS OF THE PROJECT SO TO NOT DISRUPT NORMAL AIRPORT OPERATION. ALL POWER OUTAGES SHALL BE APPROVED BY VPS PRIOR TO PERFORMING WORK.
 2. THE CONTRACTOR SHALL HAVE THE CAPABILITY TO PUT THE AIRPORT BACK IN OPERATION EVEN IF CERTAIN ASPECTS OF WORK TAKE LONGER THAN ANTICIPATED. COORDINATE ALL ANTICIPATED LONG OUTAGE TASKS WITH VPS AND HAVE CONTINGENCY PLANS IN PLACE PRIOR TO PERFORMING WORK.

UNDERGROUND WORK NOTE:
 LOCATE ALL UTILITIES PRIOR TO PERFORMING UNDERGROUND WORK.

NEW WORK PARTIAL ELECTRICAL SITE PLAN



REFER TO SHEET E-103 FOR NEW WORK IN THIS AREA

OKALOOSA COUNTY AIRPORTS



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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

NEW WORK PARTIAL ELECTRICAL SITE PLAN

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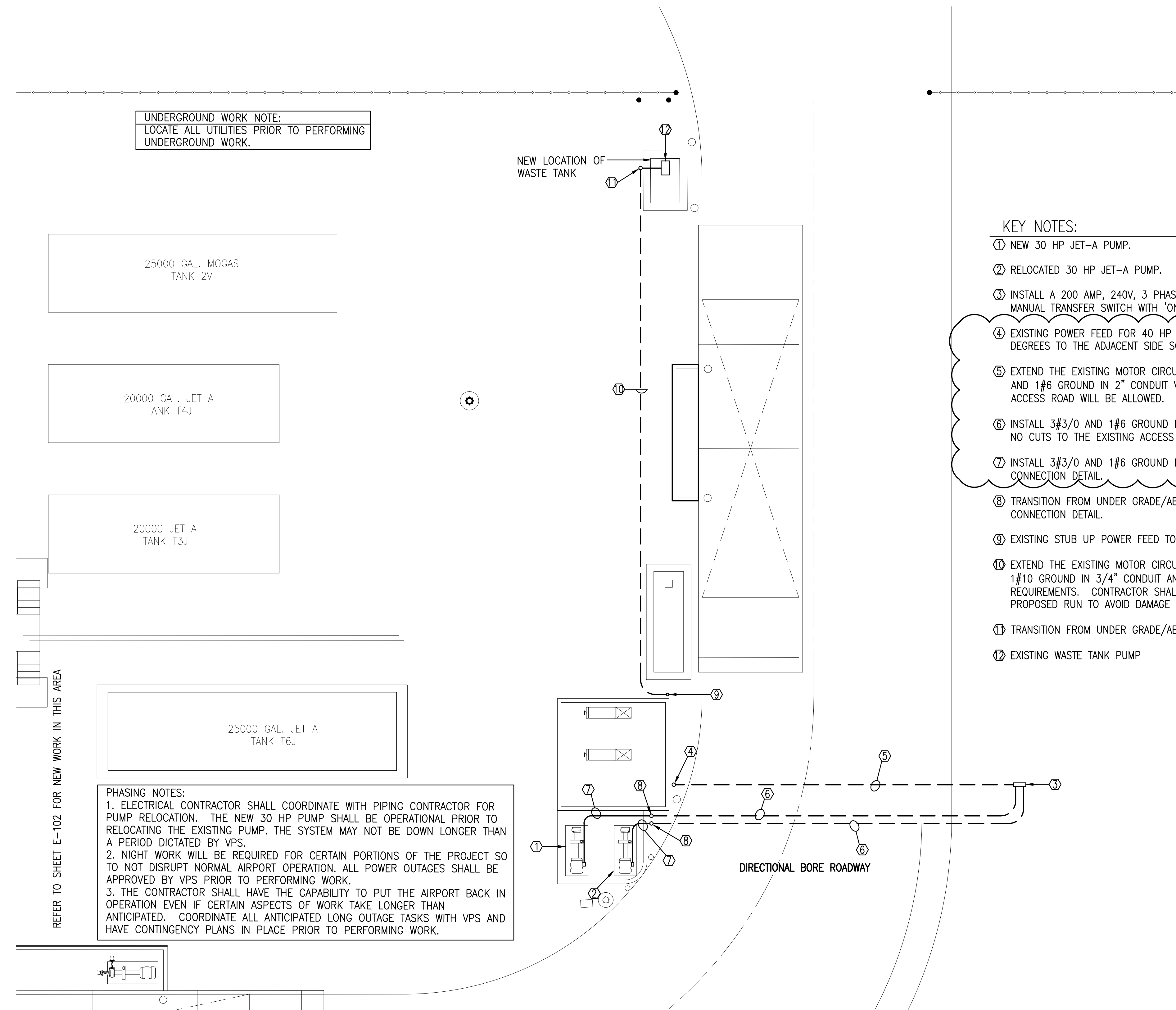
RECORD DRAWINGS

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AVCON PROJECT NO. 2017.050.02

SHEET NUMBER
E-102

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UNDERGROUND WORK NOTE:
LOCATE ALL UTILITIES PRIOR TO PERFORMING UNDERGROUND WORK.

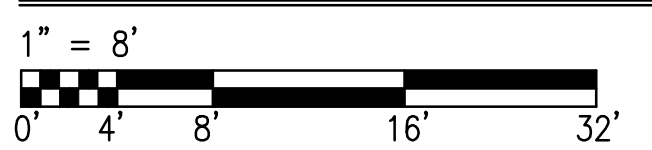
REFER TO SHEET E-102 FOR NEW WORK IN THIS AREA

PHASING NOTES:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PIPING CONTRACTOR FOR PUMP RELOCATION. THE NEW 30 HP PUMP SHALL BE OPERATIONAL PRIOR TO RELOCATING THE EXISTING PUMP. THE SYSTEM MAY NOT BE DOWN LONGER THAN A PERIOD DICTATED BY VPS.
2. NIGHT WORK WILL BE REQUIRED FOR CERTAIN PORTIONS OF THE PROJECT SO TO NOT DISRUPT NORMAL AIRPORT OPERATION. ALL POWER OUTAGES SHALL BE APPROVED BY VPS PRIOR TO PERFORMING WORK.
3. THE CONTRACTOR SHALL HAVE THE CAPABILITY TO PUT THE AIRPORT BACK IN OPERATION EVEN IF CERTAIN ASPECTS OF WORK TAKE LONGER THAN ANTICIPATED. COORDINATE ALL ANTICIPATED LONG OUTAGE TASKS WITH VPS AND HAVE CONTINGENCY PLANS IN PLACE PRIOR TO PERFORMING WORK.

KEY NOTES:

- ① NEW 30 HP JET-A PUMP.
- ② RELOCATED 30 HP JET-A PUMP.
- ③ INSTALL A 200 AMP, 240V, 3 PHASE, NEMA 4 RATED, NON-FUSED DOUBLE THROW MANUAL TRANSFER SWITCH WITH 'ON', 'OFF', 'ON' SWITCH POSITIONS.
- ④ EXISTING POWER FEED FOR 40 HP MOTORS. ROTATE THE EXISTING RUN LIGHT 180 DEGREES TO THE ADJACENT SIDE SO IT FACES THE NEW MOTOR LOCATIONS.
- ⑤ EXTEND THE EXISTING MOTOR CIRCUIT TO THE NEW TRANSFER SWITCH. INSTALL 3#3/0 AND 1#6 GROUND IN 2" CONDUIT VIA DIRECTIONAL BORE. NO CUTS TO THE EXISTING ACCESS ROAD WILL BE ALLOWED.
- ⑥ INSTALL 3#3/0 AND 1#6 GROUND IN 2" CONDUIT BELOW GRADE VIA DIRECTIONAL BORE. NO CUTS TO THE EXISTING ACCESS ROAD WILL BE ALLOWED.
- ⑦ INSTALL 3#3/0 AND 1#6 GROUND IN 2" CONDUIT. REFER TO JET-A ONLOAD PUMP CONNECTION DETAIL.
- ⑧ TRANSITION FROM UNDER GRADE/ABOVE GRADE. REFER TO JET-A ONLOAD PUMP CONNECTION DETAIL.
- ⑨ EXISTING STUB UP POWER FEED TO WASTE TANK PUMP.
- ⑩ EXTEND THE EXISTING MOTOR CIRCUIT TO THE WASTE TANK PUMP. INSTALL 2#10 AND 1#10 GROUND IN 3/4" CONDUIT AND CONNECT TO THE MOTOR PER THE MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL HAND-DIG TO LOCATE ALL UTILITIES ALONG THE PROPOSED RUN TO AVOID DAMAGE TO THE EXISTING UTILITIES SHOWN ON SHEET C-4.
- ⑪ TRANSITION FROM UNDER GRADE/ABOVE GRADE.
- ⑫ EXISTING WASTE TANK PUMP

NEW WORK PARTIAL ELECTRICAL SITE PLAN



Be 216 E. Government St. FL Authorization No. 30167
Pensacola, FL 32502 FL PE No. 59251
Phone: (850) 462-8040 Job Number: 17-044

DESTIN-FORT WALTON BEACH AIRPORT
FUEL FARM EXPANSION
NEW WORK PARTIAL ELECTRICAL SITE PLAN

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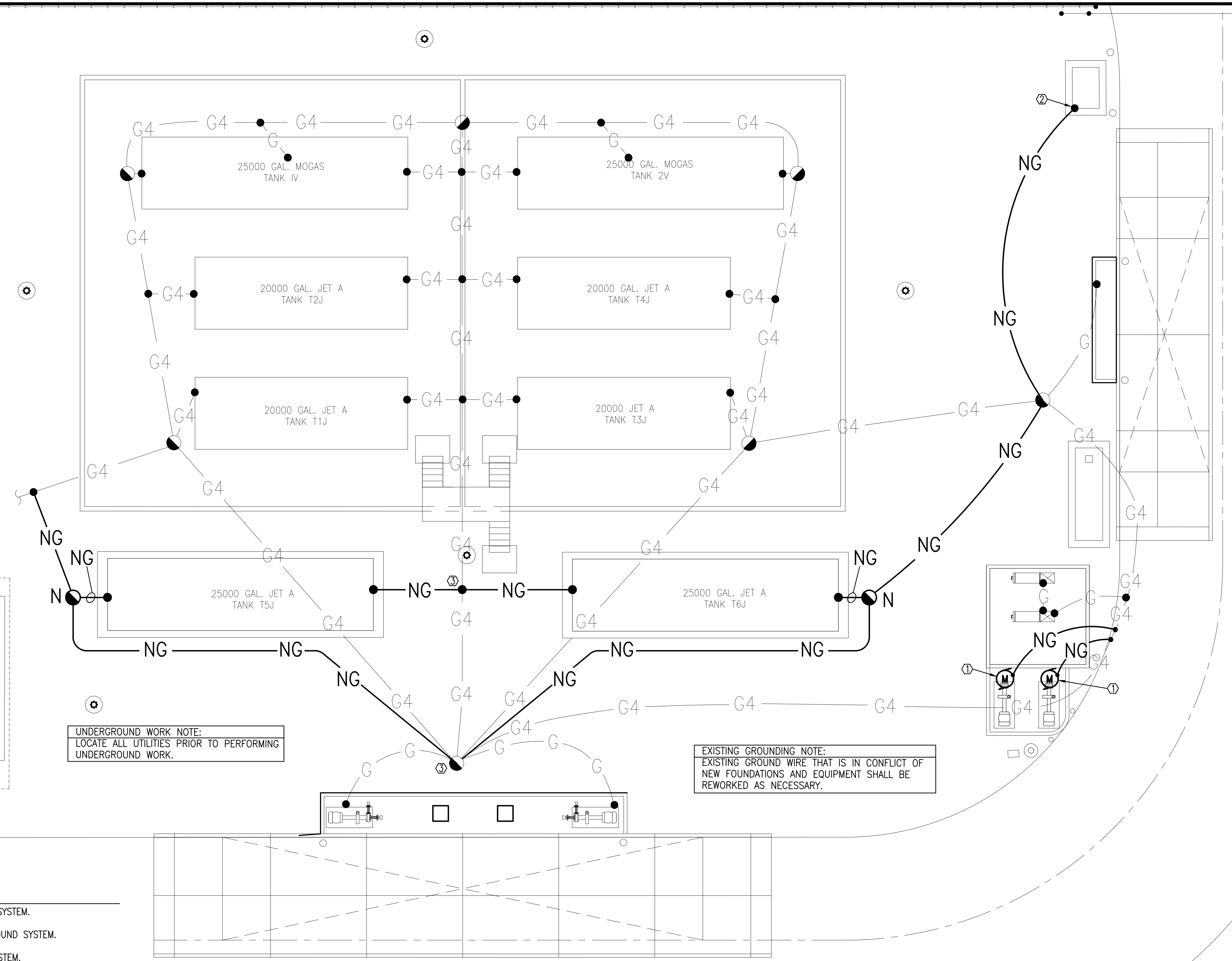
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RECORD DRAWINGS

DESIGNED BY: D. BAGWELL
DRAWN BY: C. COLEMAN
CHECKED BY: D. BAGWELL
APPROVED BY: D. BAGWELL
DATE: FEBRUARY 2019

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SHEET NUMBER
E-103

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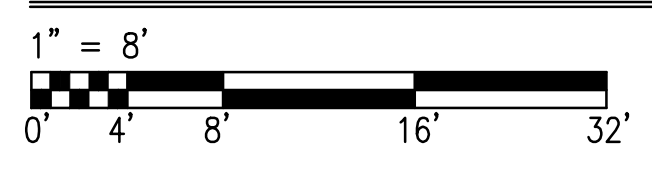


UNDERGROUND WORK NOTE:
LOCATE ALL UTILITIES PRIOR TO PERFORMING UNDERGROUND WORK.

EXISTING GROUNDING NOTE:
EXISTING GROUND WIRE THAT IS IN CONFLICT OF NEW FOUNDATIONS AND EQUIPMENT SHALL BE REWORKED AS NECESSARY.

- KEY NOTES:**
- ① CONNECT 30 HP MOTORS TO EXISTING GROUND SYSTEM.
 - ② CONNECT THE WASTE TANK TO THE EXISTING GROUND SYSTEM.
 - ③ CONNECT THE NEW TANK TO THE GROUNDING SYSTEM.

NEW WORK ELECTRICAL GROUNDING PLAN



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FL PE No. 59251
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DESTIN-FORT WALTON BEACH AIRPORT

FUEL FARM EXPANSION

NEW WORK ELECTRICAL GROUNDING PLAN

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DATE: FEBRUARY 2019

AVCON PROJECT NO. 2017.050.02

SHEET NUMBER E-104