WARNING: ALL **INDIVIDUALS** INTERESTED IN BIDDING ON PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON PROJECT.

GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH COUNTY OF SAN BERNARDINO MUNICIPAL CODE. THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION, AND ALL SUPPLEMENTS. THE PRELIMINARY SOILS REPORT DATED AND ANY SPECIAL REQUIREMENTS OF THE PERMIT.
- 2. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THIS PROJECT.
- 3. DUST SHALL BE CONTROLLED BY WATERING.
- 4. FINISH GRADING WILL BE COMPLETED AND APPROVED BEFORE PLACEMENT OF EQUIPMENT.
- 5. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
- 6. NO GRADING IN EXCESS OF 5,000 CY SHALL BE STARTED WITHOUT FIRST NOTIFYING THE ENGINEER. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE THE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, SUPERVISING CIVIL ENGINEER, SOILS ENGINEER AND/OR GEOLOGIST,
- NO FILL TO BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS AND INSTALLATION OF SUB-DRAINS, IF ANY, HAS BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
- 8. NO ROCK OR SIMILAR MATERIAL GREATER THAN 6" IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVING BEEN SUBMITTED BY THE SOILS ENGINEER.
- 9. ALL EXISTING FILLS SHALL BE APPROVED BY THE SOILS ENGINEER OR REMOVED BEFORE ANY ADDITIONAL FILLS ARE ADDED.
- 10. FILLS SHALL BE BENCHED IN COMPETENT MATERIAL AS REQUIRED IN SOILS REPORT.
- 11. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE SOILS ENGINEER PRIOR TO THE PLACING OF FILL.
- 12. THE CONTRACTOR SHALL COMPLY WITH THE GRADING CODE REQUIREMENTS WHEN AN EXCESS OF 1,000 CY IS MOVED ON PUBLIC ROADWAYS FROM THE SITE OF AN EARTH GRADING OPERATION. (15.04–210, 5.04.545, 15.38)
- 13. THE SOILS ENGINEER SHALL BE RESPONSIBLE FOR THE OBSERVATION AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS, TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES AND THE DESIGN OF BUTTRESS FILLS, WHERE REQUIRED, INCORPORATING DATA SUPPLIED BY THE ENGINEERING GEOLOGIST AND INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THEIR PURVIEW.
- 14. THE DESIGN CIVIL ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
- 15. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- 16. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 17. EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP SITE.
- 18. IN THE EVENT THAT SOIL CONTAMINATION IS DISCOVERED DURING EXCAVATION, WORK SHALL BE STOPPED UNTIL A SITE ASSESSMENT AND MITIGATION PLAN HAS BEEN PREPARED, SUBMITTED AND APPROVED BY HCA/ENVIRONMENTAL HEALTH.
- 19. THE CONTRACTOR SHALL KEEP EACH EXISTING FUEL SERVICE SITE IN OPERATION AS LONG AS POSSIBLE. GOAL IS 2-3 WORKING DAYS, PER SITE.
- 20. PROPOSED PAVEMENT TO BE PLACED TO MATCH EXISTING SURFACE FLOW DRAINAGE (AC/AB AT 1.5% MIN.) (PCC AT 0.5% MIN.)
- 21. PLACE ELECTRICAL CONDUITS IN SLAB AT TANK LOCATIONS.
- 22. INSTALLATION CONFIGURATION TO MATCH EXISTING BALDY MESA FUEL SITE, UNLESS NOTED OTHERWISE (LOCATED AT 12394 SYCAMORE ST. VICTORVILLE, CA 92392)
- 23. ALL NEW TANKS TO BE CONNECTED TO EMERGENCY GENERATOR

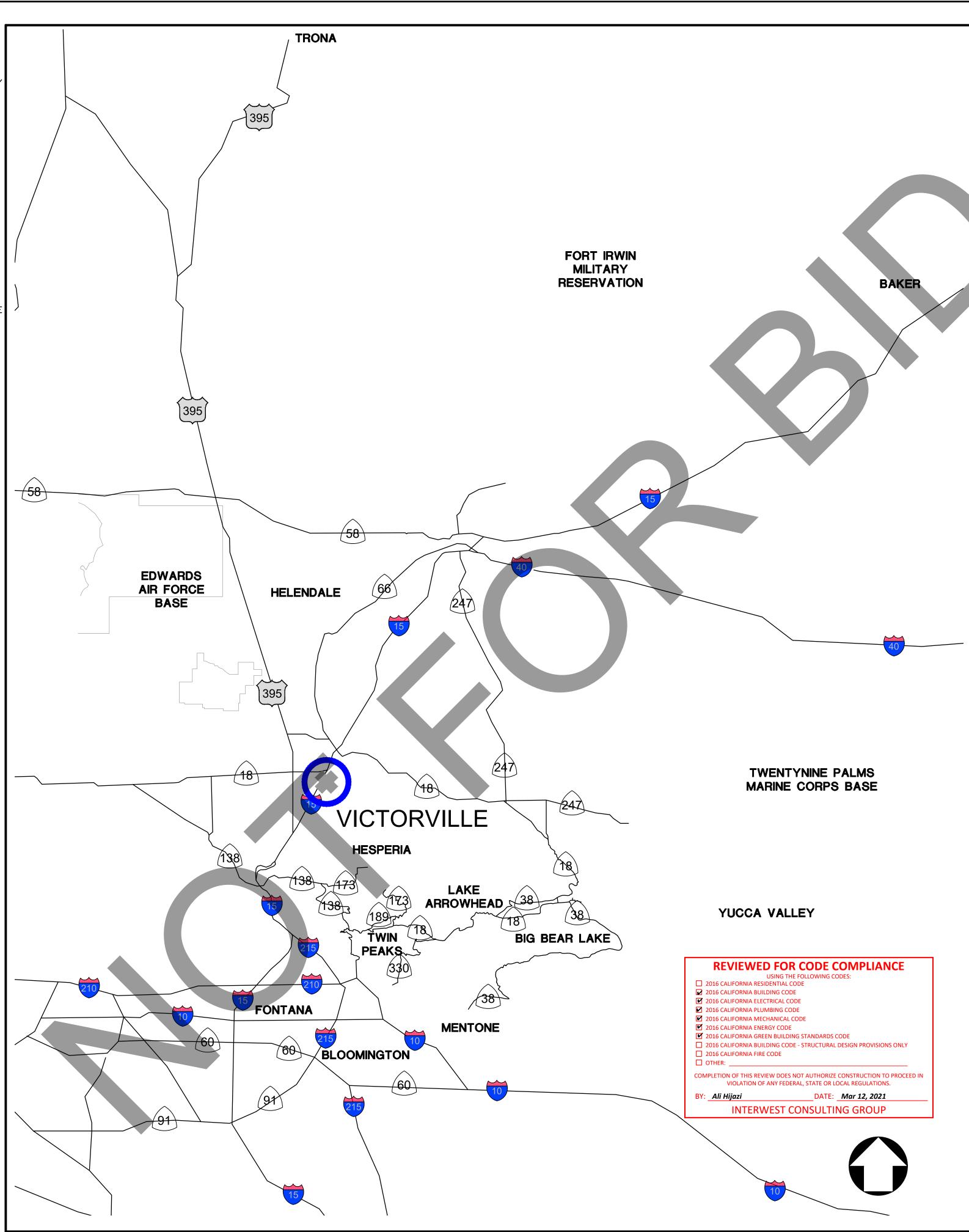
UNAUTHORIZED CHANGES AND USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

LIABILITY FOR UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA, WHILE DUE CARE WAS TAKEN IN PREPARATION OF THIS INFORMATION, THE ENGINEER CANNOT AND DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION.

IT SHALL BE THE RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE OR NON-EXISTENCE OF SUCH UTILITIES AND TO PROTECT THEM IN PLACE. IN THE EVENT UNKNOWN UTILITIES OR UNKNOWN STRUCTURES ARE FOUND, OR KNOWN FACILITIES ARE FOUND DURING CONSTRUCTION AT UNEXPECTED ELEVATIONS OR LOCATIONS, THE ENGINEER IS TO BE NOTIFIED OF SUCH CONDITIONS AT ONCE. THE ENGINEER WILL MAKE ANY REQUIRED DESIGN CHANGES AND THE CONTRACTOR AGREES TO COMPLETE THE WORK INCLUDING REPAIRS REQUIRED IN AN EXPEDITIOUS MANNER. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. PSOMAS IS NOT RESPONSIBLE FOR ANY INFORMATION SHOWN ON THIS DRAWING PROVIDED BY OTHERS.



INDEX MAP

LEGEND



FUEL SITE

SHEET INDEX:

SHT. DWG. NO. NO. SHEET <u>SITE</u> CITY 01 C0.10 TITLE SHEET

C0.20 CONSTRUCTION NOTE MATRIX C1.10 PRECISE GRADING PLAN Victorville Tokay Street Victorville

C2.10 TANK LAYOUTS C2.11 TANK DETAILS

C2.12 TANK DETAILS S1.10 FOUNDATION PLAN

E-0 ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

E-1 ELECTRICAL SPECIFICATIONS

E-2 ELECTRICAL GENERATOR SPECIFICATION

E-3 ELECTRICAL SITE PLAN

E-4 ELECTRICAL ENLARGED SITE PLAN

E-5 ELECTRICAL DETAILS

E-6 ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULES

NOTICE TO CONTRACTOR FOR COUNTY PERMITS:

COUNTY PERMIT

A. AN ENCROACHMENT PERMIT FROM THE COUNTY OF SAN BERNARDINO WILL BE REQUIRED FOR WORK IN COUNTY RIGHT-OF-WAY.

B. CONTRACTOR SHALL PAY ANY FEES. C. COUNTY SHALL BE LISTED AS CO-APPLICANT, CONTRACTOR SHALL

SUBMIT OF PROOF OF INSURANCE, AND PAYMENT OF PERMIT FEE. D. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ENCROACHMENT PERMIT IN FORCE, TRACKING EXPIRATION DATES, AND APPLYING FOR PERMIT RENEWALS AND EXTENSIONS AS NEEDED.

COUNTY OF SAN BERNARDINO FIRE DEPARTMENT PERMIT

- A. A PERMIT FROM COUNTY OF SAN BERNARDINO FIRE DEPARTMENT WILL BE REQUIRED FOR WORK RELATED TO THE INSTALLATION OF
- FUEL TANKS B. CONTRACTOR SHALL PAY ANY FEES.
- C. COUNTY SHALL BE LISTED AS CO-APPLICANT. CONTRACTOR SHALL SUBMIT OF PROOF OF INSURANCE, AND PAYMENT OF PERMIT FEE.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PERMIT IN FORCE, TRACKING EXPIRATION DATES, AND APPLYING FOR PERMIT RENEWALS AND EXTENSIONS AS NEEDED.





COUNTY OF SAN BERNARDINO

ARCHITECTURE & **ENGINEERING DEPARTMENT**

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

Project Title: FUEL TANK

INFRASTRUCTURE PHASE III

CIP NUMBER: 20-030 1010.0857 Project Address:

Fuel Site 15000 Tokay Street, Victorville CA 92395

PSOMAS 5 Hutton Centre Drive

Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883

NOT FOR CONSTRUCTION

REVISION DATE

Drawing Title:

PRECISE GRADING PLAN

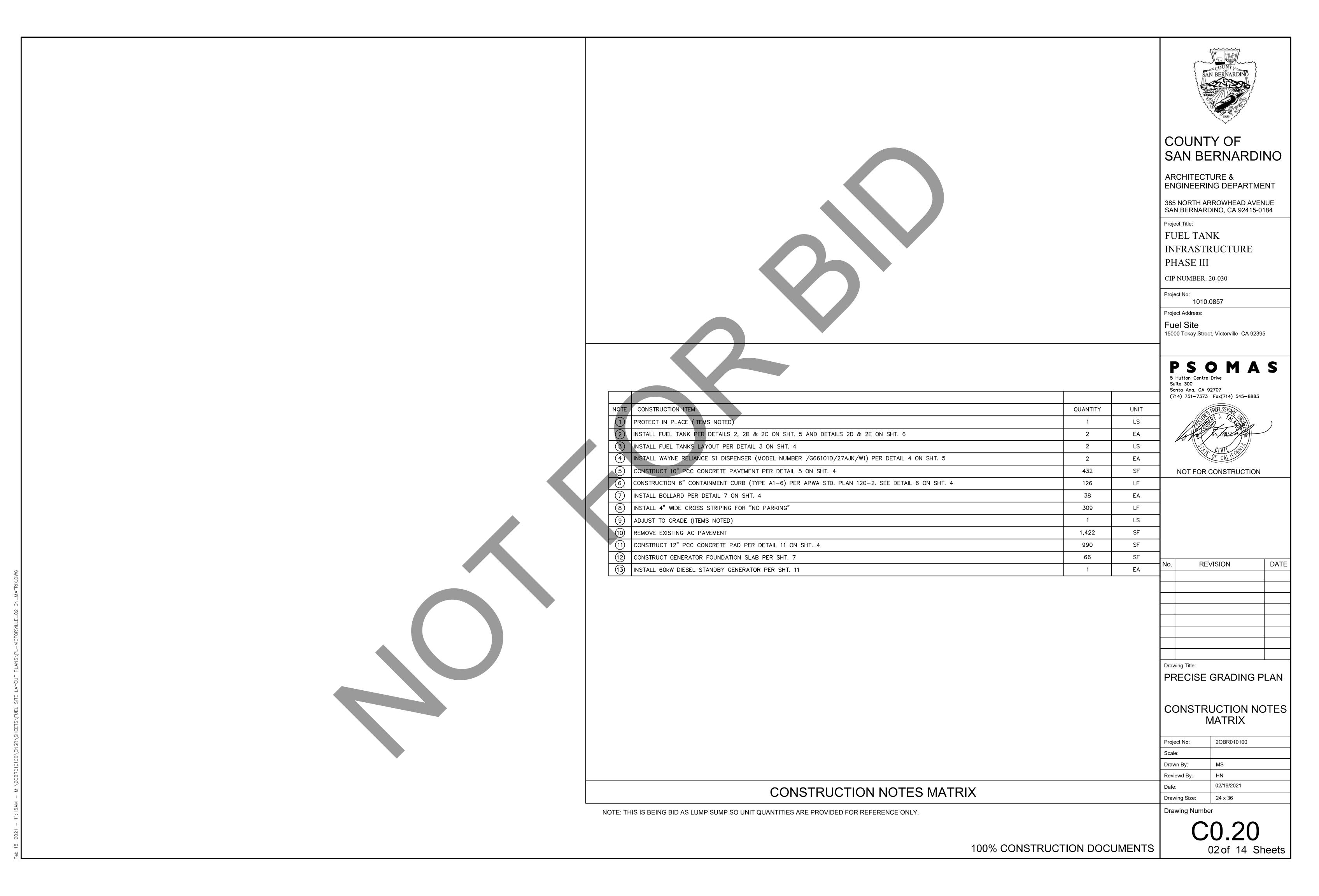
TITLE SHEET INDEX MAP, NOTES

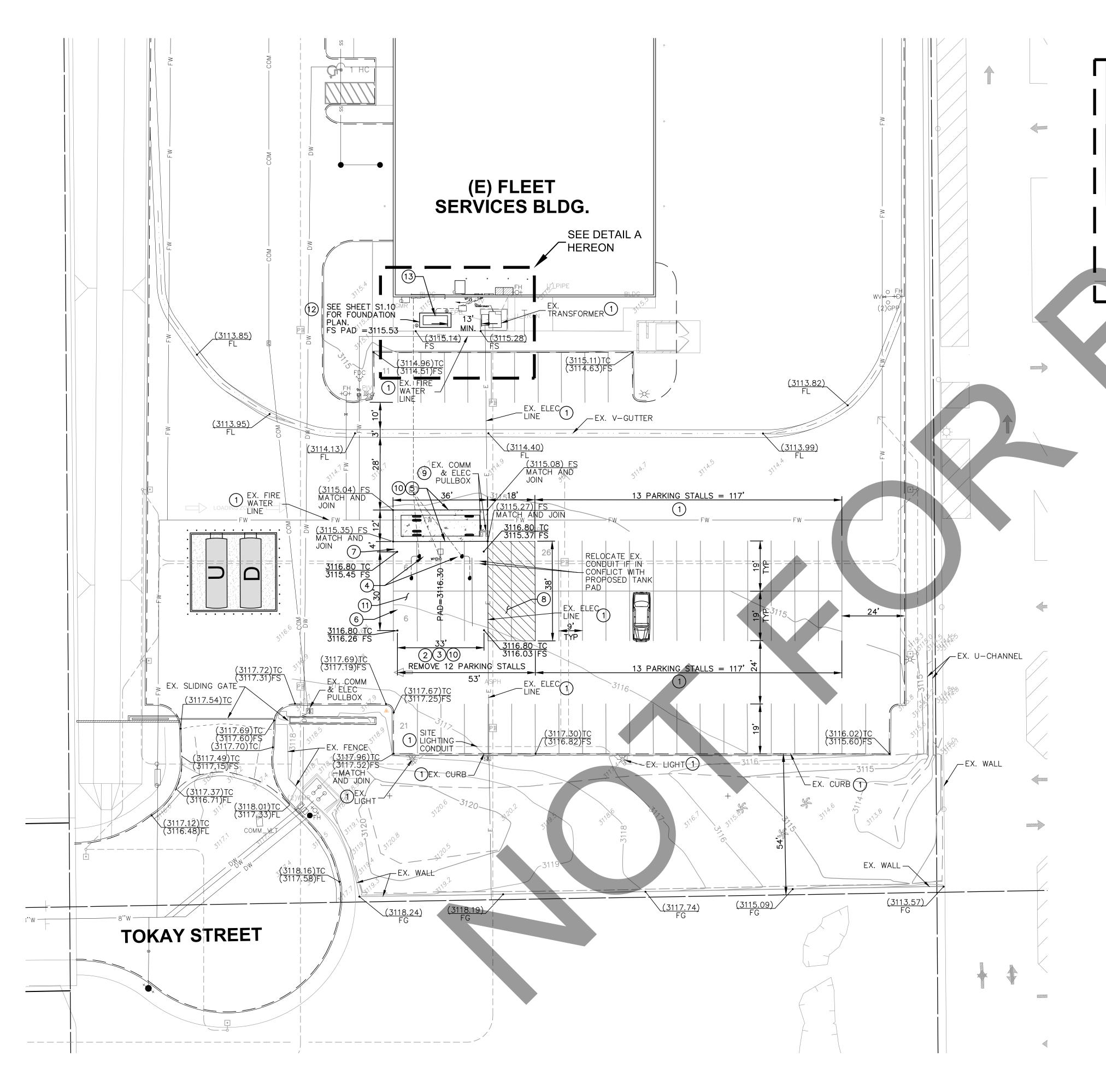
Project No:	2OBR010100				
Scale:					
Drawn By:	MS				
Reviewd By:	HN				
Date:	02/19/2021				
Drawing Size:	24 x 36				
	·				

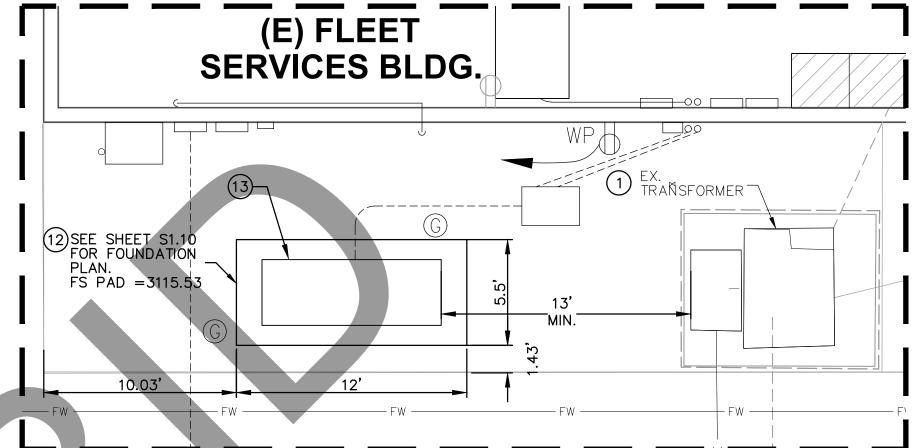
Drawing Number

01of 14 Sheets

100% CONSTRUCTION DOCUMENTS



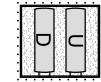




DETAIL A

SCALE: 1' = 5'

LEGEND



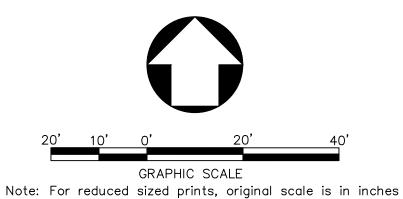
LAYOUT "A" PROPOSED FUEL TANKS / DISPENSERS LAYOUT D = DIESEL GASOLINE U = UNLEADED GASOLINE

GENERAL NOTES

- A. ADD CONDUIT FOR FUEL CONTROLLER AT DISTRIBUTION LOCATION.
- B. CONTRACTOR TO RE-USE / EXTEND EXISTING POWER.
- C. CONTRACTOR TO PROVIDE CONDUIT FOR DATA LINE FROM EJ WARD TERMINAL (PROVIDED BY COUNTY) AT EACH DISPENSER LOCATION AT TANKS.
- D. LOCATION NEW FUEL TANKS AS INDICATED.
- E. CONNECT TO POWER SOURCE PER ELECTRICAL ENGINEER.
- F. SEE PAGE E.4 FOR CONDUIT LAYOUT.

CONSTRUCTION NOTES

- 1) PROTECT IN PLACE (ITEMS NOTED)
- INSTALL FUEL TANK PER DETAILS 2, 2B & 2C ON SHT. 5 AND DETAILS 2D & 2E ON SHT. 6
- 3) INSTALL FUEL TANKS LAYOUT PER DETAIL 3 ON SHT. 4
- INSTALL WAYNE RELIANCE S1 DISPENSER (MODEL NUMBER /G66101D/27AJK/W1) PER DETAIL 4 ON SHT. 5
- CONSTRUCT 10" PCC CONCRETE PAVEMENT PER DETAIL 5 ON SHT. 4 CONSTRUCTION 6" CONTAINMENT CURB (TYPE A1-6) PER APWA STD. PLAN 120-2. SEE DETAIL 6 ON SHT. 4
- (7) INSTALL BOLLARD PER DETAIL 7 ON SHT. 4
- (8) INSTALL 4" WIDE CROSS STRIPING FOR "NO PARKING"
- 9 ADJUST TO GRADE (ITEMS NOTED)
- REMOVE EXISTING AC PAVEMNET
- CONSTRUCT 12" PCC CONCRETE PAD PER DETAIL 11 ON SHT. 4
- CONSTRUCT GENERATOR FOUNDATION SLAB PER SHT. 7
- (13) INSTALL 60KW DIESEL STANDBY GENERATOR PER SHT. 11



NOTE: FOR ELECTRICAL LAYOUTS, NOTES AND DETAILS. SEE ELECTRICAL PLANS, SHEETS 08 - 13

100% CONSTRUCTION DOCUMENTS



COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

FUEL TANK **INFRASTRUCTURE** PHASE III

CIP NUMBER: 20-030

Project No: 1010.0857 Project Address:

Fuel Site 15000 Tokay Street, Victorville CA 92395

5 Hutton Centre Drive Suite 300 Santa Ana, CA 92707



NOT FOR CONSTRUCTION

<u> </u>		1
No.	REVISION	DATE
Drawing Title:		

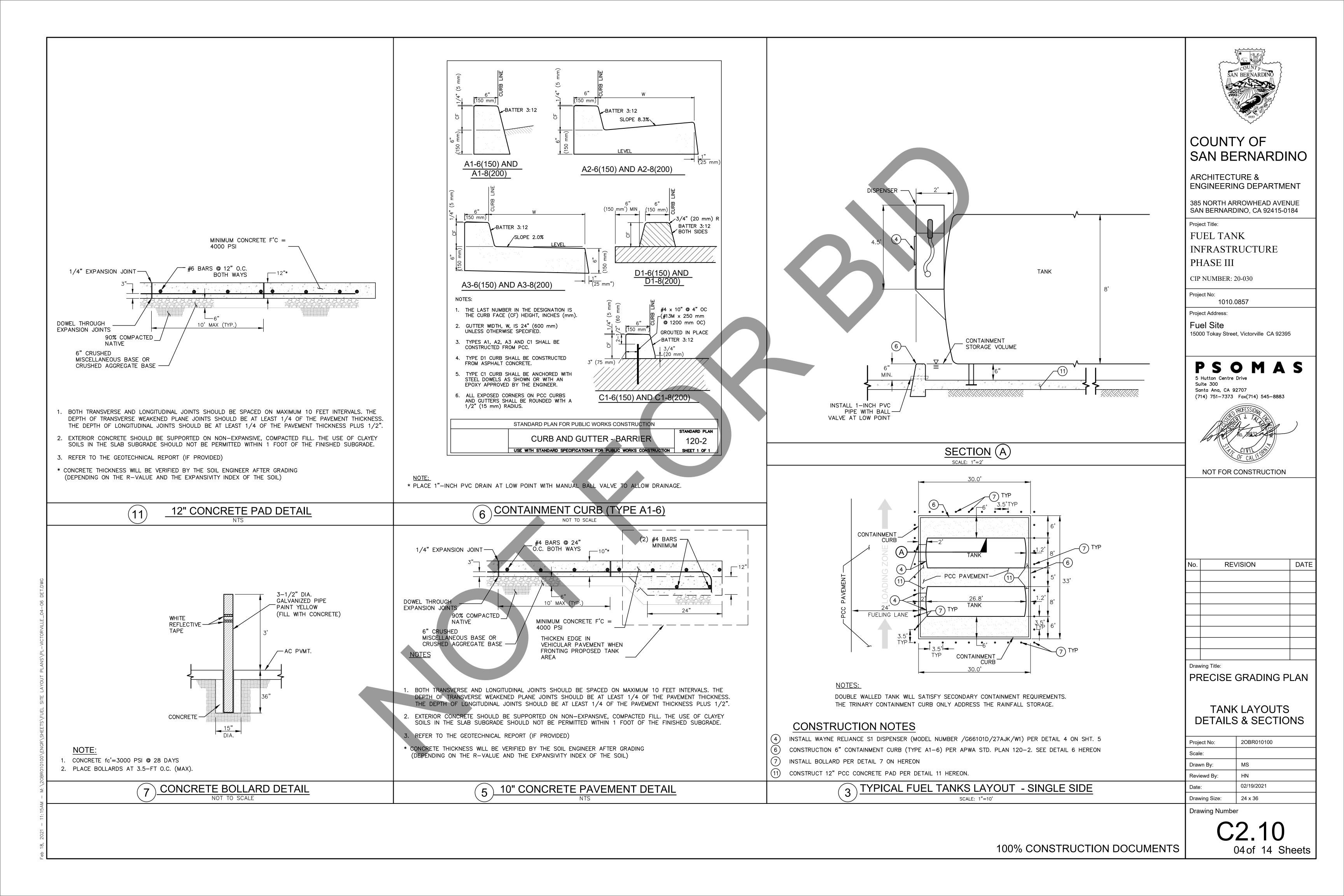
PRECISE GRADING PLAN

PRECISE GRADING PLAN

Project No:	2OBR010100
Scale:	1" = 20'
Drawn By:	MS
Reviewd By:	HN
Date:	02/19/2021
Drawing Size:	24 x 36

Drawing Number

03 of 14 Sheets







The Reliance S1 AST combines space-saving design with full-featured performance

- Compact size is ideal for AST shelf-attached applications and other special situations like marinas Accurately records fuel usage with a weights and measures sealable meter
- Available in an E85 compatible model for an easy transition to alternative fueling



Specifications

Model Number: Prefix / G6101D / Suffix 1 Options / Suffix 2 Options Standard model includes the following options as standard: 1" piping [2],

j-box [J], hose hanger [K], solenoid valve [//W1]. Option prefix or suffixes are noted in the options below in [], A *//" (e.g. [//W1]) indicates a suffix 2 Performance: Up to 22 GPM (83 lpm)*.

Compatibility: For dispensing low viscosity petroleum fuels - diesel; biodiesel blends up to 20%; gasoline, including oxygenated blends; kerosene; AvGas^, and jet fuel^. See E85 option. Fuel must meet the applicable ASTM standard.

^Note: Confirm with fuel supplier on any fluid path metal restrictions before use. If aluminum, zinc, or red metals are not desired, the EB5 option may be utilized. Register: Non-computer mechanical register with power reset with interlock. Up to 999.9 gallons per delivery. Non-resettable accumulative totalizer up to 9999999.9. Optional liters measure.

Meter: Reliable micro-accurate 2-piston positive displacement design. Weights & Measures sealable. Solenoid Valve [//W1]: 1" (2.5 cm) two-stage valve. Single stage valve

with E85 option. Electrical: 115VAC, 60 Hz. Optional 230VAC 50/60 Hz operation [Z]. Inlet Connection: 11/2" (3.8 cm) NPT. Bottom access hole sized for 11/2"

emergency valve installation. Discharge: 1" (2.5 cm) with 34" reducing bushing.

Mounting: Four 7/16" (1.1 cm) mounting holes in bottom. Optional

shelf-mount kit. Cabinet Construction: All panels are fabricated from galvannealed steel for corrosion resistance. Front door includes lock and is removable for service. Outer sides, back, and top are removable for additional service access if required.

Cabinet Finish: Extremely durable powder-coated finish gives outstanding appearance and toughness. Metallic silver sides, top, and back. Blue door with black register decal. Optional black, brown, green, red, silver, yellow, ar white doors.

Nozzle Boot and Hook: Fits standard UL interchangeable nozzles. Also fits Emco Wheaton 4015 and Husky V short spout balance vapor recovery nozzles. Hook extension kits+ for OPW 11VF (p/n 892081-001) and Healy 400 (p/n 892080-001) long spout vapor recovery nozzles. Lift-to-start nozzle hook.

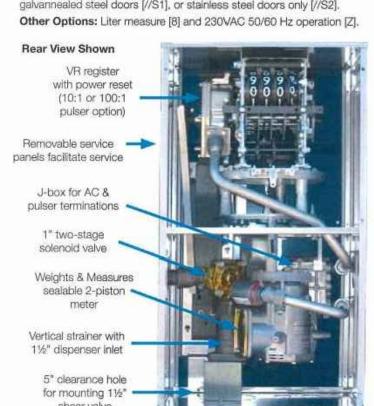
Hose Hanger [K]: Keeps hose off ground when not in use. Actual Dimensions: 30.25"H x 16.75"W x 14"D (76.8cm H x 42.5cm W x 35.6cm D)

Pressure: Working pressure up to 50 psi. Approvals: C-UL-US Listed. Sealable by U.S. Weights & Measures.

Shelf-Mount Kit+: Carbon steel shelf brackets for mounting dispenser to tank. Black powder coat finish. P/n 891839-001 Pulsers: 10:1 [7A] and 100:1 [7B] ratio options.

E85** [E/ prefix]: Utilizes nickel-plating, hard anodizing, stainless steel, and special elastomers, which have been used successfully for E85 Hose Mast [//J]: Raises hose to ease hose handling. Optional hose clamp

kit+ (p/n 890898-001) for Goodyear® vapor recovery hose. External Filter Kit+: Installs on discharge. P/n 889921-002. Stainless Steel: All exterior panels [//S], all panels except painted galvannealed steel doors [//S1], or stainless steel doors only [//S2].



shear valve *Note: Kits require field installation. *Flow rates are maximum test rates at discharge. Actual rates will depend upon installation conditions, dispenser accessories and the size of the submersible or

**E/models are UL Listed for Class I liquids, which include gasoline and diesel. A UL listing specific to a new UL guideline for ethanol is pending. Select only hose and nazzle accessories that are expressly compatible with the fuel type being dispensed.

PROVIDE WIRELESS DATA TO MAIN BUILDING

WAYNE RELIANCE S1 DISPENSER MODEL NUMBER /G66101D/27AJK/W1)



10,000 GALLON CYLINDRICAL TANK SUPER VAULT

MHC 3" D5 NON-CARB GROUND LEVEL FILL SYSTEM

HINGED GROUND LEVEL FILL SPILL PAN WITH HAND PUMP

GASOLINE PHASE I & II DISPENSING PACKAGE WITH SUCTION PUMP &

RUNG LADDER AND 3'x18' PLATFORM MCF STANDARD - GALVANIZED

2" MORRISON AUTOMATIC SHUTOFF VALVE EVR

MHC 3" D5 CARB GROUND LEVEL FILL SYSTEM

WAYNE TANK MOUNTED DISPENSER

SECONDARY ALARM & SENSORS

FUEL TANK PARTS

EMPTY TANK WEIGHT: 45,000 LBS
FULL TANK WEIGHT WITH DIESEL FUEL (95% CAPACITY): 111,500 LBS
FULL TANK WEIGHT WITH UNLEADED FUEL (95% CAPACITY): 104,375 LBS

SADDLE CONNECTIONS FOR LADDER AND PLATFORM

ASSEMBLY TO BE CONNECTED WITH 1—INCH COARSE THREADED A307 BOLTS, 4 ANCHOR BOLTS PER SADDLE.

133-MHC-1000

16SVEQ1005

16SVGF30015

16SVGF10503

16SVGF20503

SVEQ80160

L&P10KD5

TA-732A

SADDLE CONNECTIONS FOR LADDER AND PLATFORM ASSEMBLY TO BE CONNECTED WITH 1-INCH COARSE THREADED A307 BOLTS, 4 ANCHOR BOLTS PER SADDLE.

- FL - FL 04"

-20**'**-3"--

ELEVATION VIEW

-23'-4⁹" SHIPPING LENGTH-

MODEL NO. MHC-D5-10000 GASOLINE

(2C) RUNG LADDER AND 3' X 18' PLATFORM THAT EXTENDS TO BOTH ENDS OF EACH FUEL TANK - GALVANIZED

LEFT END VIEW

CUSTOMER SIGNATURE:

SHOP ORDER NO.: _

EST. STEEL TANK WEIGHT: 45,000 LBS

TANK ACCESSORIES:

- ANCHOR BOLTS
- BULKHEADS AND BAFFLES
- CUSTOM NAME AND TECHNICAL DATA PLATES
- DISCHARGE PIPING
- EQUIPMENT PACKAGES GAUGE AND PUMP SHELVES
- GROUND LEVEL LOAD (REMOTE FILL)
- SIDE MOUNT LADDER / CATWALK
- PUMP PLATFORM 24" x 36" REINFORCING PADS
- SIGHT TUBES
- SPILL BOX

WEAR PLATES

PROVIDE GROUND LEVEL FILLING TO TOP OF TANK, WITH VENT.

(2B) TANK ACCESSORIES

TANK SUPPORT

Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883

REVISION

COUNTY OF

ARCHITECTURE &

FUEL TANK

PHASE III

Project No:

Project Address:

Fuel Site

Suite 300

CIP NUMBER: 20-030

5 Hutton Centre Drive

INFRASTRUCTURE

1010.0857

15000 Tokay Street, Victorville CA 92395

SAN BERNARDINO

ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

NOT FOR CONSTRUCTION

-16'-8¹" PLATFORM-SHIPPING WIDTH-RIGHT END VIEW

ITEM NO. NONE NO. REQUIRED (1) ONE modern custom fabrication fresno california P.O. Box 11925 • 2421 E. California Ave. • Fresno, California 93721 Ph: (559) 264-4741 OR 800-800-TANK • Fox: (559) 237-3413 MODEL NO. MHC-D5-10000

VENTING CAPACITY PRIMARY: 372,600 SCFH SECONDARY: 410,800 SCFH

SUPERVAULT MH-PROTECTED ABOVE GROUND STORAGE TANK

Scale:

TANKS DETAILS 20BR010100 Project No:

Drawn By: HN Reviewd By: 02/19/2021 24 x 36 Drawing Size:

PRECISE GRADING PLAN

Drawing Number

TANK DETAIL

NOT TO SCALE

100% CONSTRUCTION DOCUMENTS

05 of 14 Sheets

DATE

Model 927/928/735DC Series & 9095A5201

The Morrison 927 dry disconnect adaptor is installed at the fill point in the fill line of a fuel storage tank system. The internal spring loaded poppet assembly remains closed providing a liquid-tight seal when not connected to a dry disconnect adaptor.

The Morrison 928 dry disconnect coupler is installed on the end of delivery vehicle hose. When coupled, the 927 and 928 provide a liquidtight connection enabling a dry connection and a dry disconnection.

The 735DC dust cap serves as a protective cover for the 927 adaptor when not in use.



SPECIFICATION SHEET

	I.D. Number	Size	Description	A	В	С	D	E	Cap Size	Weight (lbs)	
	9270150 1A 1½" Dry disconnect adaptor				Α		N		1.63		
	9270200 AA	2"	Dry disconnect adaptor, cam style			AA		N		1.68	
EVR	9270200AAEVR	2"	Dry disconnect adaptor, alum w/Viton®		2½	Α	٧	Υ	2½"	1.98	
EVR	9270300AAEVR	3"	Dry disconnect adaptor, alum w/Viton®	3N	4	Α	٧	Υ	4"	3.50	
EVR	9270400AAEVR	4"	Dry disconnect adaptor, alum w/Viton®	4N	4	Α	٧	Υ	4"	3.50	
EVR	9095A5201AAEVR	4" x 2"	Dry disconnect adaptor, alum w/Viton®	4N	2½	А	٧	Υ	21/2"	2.50	
_,,,	927B0200 AA	2"	Dry disconnect adaptor, cam/groove style			В					
	927S0150 1A	11/2"	Dry disconnect adaptor			SS					M
	927S0200 1A	2"	Dry disconnect adaptor			SS					
	927S0300 1A 3" Dry disconnect adaptor				SS						
EVR	9280150ACEVR	1½"	Dry disconnect coupler, alum with Viton®	1N	2	Α	V	Υ		4.40	
EVR	9280200ACEVR	2"	Dry disconnect coupler, alum with Viton®	2N	2½	Α	V	Υ		6.0	
EVR	9280300ACEVR 3" Dry disconnect coupler, alum with Viton®		3N	4	Α	V	Υ		12.60		
EVR	735DC-2000ACEVR	2"	Dust cap, use w/ 1½" 927 adaptors			Α	В	Υ		1.0	
EVR	735DCA2000ACEVR	2"	Dust cap, use w/ 1½" 927 adaptors			АА	В	Υ		1.0	
EVR	735DC-2500ACEVR	21/2"	Dust cap, use w/ 2" 927 adaptors			Α	В	Y		1.25	
EVR	735DCA2500ACEVR	2½"	Dust cap, use w/ 2" 927 adaptors			AA	В	Υ		1.25	
EVR	735DC-3000ACEVR	3"	Dust cap, use w/ 3" adaptors			Α	В	Υ		1.50	
EVR	735DCA3000ACEVR	3"	Dust cap, use w/ 3" adaptors			AA	В	Υ		1.50	
EVR	735DC-4000ACEVR	4"	Dust cap, use w/ 3" & 4" 927 adaptors			Α	В	Υ		2.50	M
EVR	735DCA4000ACEVR	4"	Dust cap, use w/ 3" & 4" 927 adaptors			AA	В	Y		2.50	

SPECIFICATION OPTIONS

A—Threads: 11/2" NPT (1N); 2" NPT (2N); 2" NPS (2S); 3" NPT (3N); 4" NPT (4N)

B—Coupler Size

C—Body: Hard coated aluminum (A); Anodized aluminum (AA); Brass (B); Stainless

D—Seals: Viton® (V); Buna-N (B)

E—EVR: Yes (Y); No (N)

70 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238 t. 563.583.5701 | 800.553.4840 | f. 563.583.5028

MORRISON BROS. CO.

www.morbros.com

FILL-RITE. Repair Kits (kit # / parts included KIT300SW: 36, Lever not shown KIT300JC: 35, 38, 40 FR300 Series Pump Kits KIT300BV: 61, 82 KIT700SL: 42-44, 49-53 KIT300RG: 5, 6, 7, 24, 25, Cover KIT300BG: 62 KIT300SG: 2, 3, 4 KIT120NB: 60, 61 KIT300BD*: 3, 7, 11, 15-23, 30, 33 KIT300CV: 10, 11 KIT300OT: 84, 85, 86, 87, 88 KIT300AS: Anti-Siphon Kit (parts not shown): Tube, O-rings, adapters, pipe *KIT300BD is for conversion of pump for use with BioDiesel proucts.

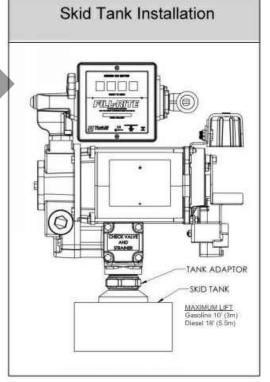
this kit the watted materials listed above are changed to VITON and Fluorocarbon seals allow for compatibility with BioDiesel products.

tight with appropriate thread

seal threads liquid tight with appropriate thread sealant. 4) Fill-Rite recommends installation of our Anti-Siphon Device (see

Mount the pump on the adapter:

page 7 for detailed information).



FILL-RITE FR313V Technical Specifications

The Most Trusted Name in Pumps and Meters Power -AC 115, 230, 115/230 None Power cord length None Power cord gauge Power cord DC battery connectors 1725/1425 NONE UL, cUL

60.06

Anti-siphon Ready

NPT Bung (NPT) Cast Iron

iesel, Gasoline, Bio-Diesal

to B20, E15, Kerosene 40 x 40 x .008" 2 Years

None

None

None

None None

None

None

0-89404-07657-6

18

18

Sku/Kit #'s	Small Pump Kits	Consists of			
KIT300BD	Bio-Diesel	Special Shaft Seal Assembly, Gasket, Inlet Bypass O-ring			
KIT300BV	Bypass	Poppet, Spring, O-ring, Cap			
KIT300JC	Junction Box	Junction Box Cover, O-Ring, Hardware			
KIT300NB	Nozzie Boot	Nozzle Boot, Attaching Hardware			
KIT300NR	Nozzle Retainer	Lockable Nozzle Retainer, Hardware			
KIT300OT	Outlet	Outlet Flange, O-Ring Seal, hardware			
KIT300RG	Rotary Group	Rotor, 8 Vaines, Rotor Key, Gasket, Rotor Co Screws			
KIT300SW	Switch Lever	Switch Lever, Nut			
KIT700AS Anti-Siphon KIT700BG Inlet		Anti-Siphon Hose and Hardware Inlet Adapter			
					KIT700SL
***		300 SERIES PERFORMANCE CURVE			
15.0					
20.0					
_ ===		1			
370					
380		_			
59					

Tuthill

Tuthill Transfer Systems Fort Wayne, IN 46809 (800) 634-2695 www.tuthill.com

PUMP TO BE LOCATED AT TOP OF EACH TANK.

FILL-RITE 300 SERIES PUMP

Anti-siphon valve

Inlet - Size / Thread Outlet - Size / Thread

Compatible fluids

Accessories

Nozzle- manual / automatic

Hose static wire (Y/N

COUNTY OF SAN BERNARDINO

ARCHITECTURE & **ENGINEERING DEPARTMENT**

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

FUEL TANK INFRASTRUCTURE PHASE III

CIP NUMBER: 20-030

Project No: 1010.0857 Project Address: Fuel Site

15000 Tokay Street, Victorville CA 92395

Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883

NOT FOR CONSTRUCTION

No.	REVISION	DATE	
Drawing Title:			

PRECISE GRADING PLAN

TANK DETAILS

Project No:	2OBR010100			
Scale:				
Drawn By:	MS			
Reviewd By:	HN			
Date:	02/19/2021			
Drawing Size:	24 x 36			

Drawing Number

06 of 14 Sheets

POST-INSTALLED ANCHOR NOTES

- 1. INSTALL ANCHORS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- 2. AT DIESEL GENERATOR, PROVIDE POST-INSTALLED ½" DIAMETER HILTI "KB-TZ" SS THREADED ANCHORS IN MIN 3 1/4 "DEEP HOLES. DRILL DIAMETER = $\frac{1}{2}$ ".
- 3. AT FUEL TANKS, PROVIDE POST-INSTALLED 34" DIAMETER HILTI "KB-TZ" SS THREADED ANCHORS IN MIN 4 3/4" DEEP HOLES. DRILL DIAMETER = $\frac{3}{4}$ ".
- 4. SEE ICC-ES EVALUATION REPORT ESR-1917 REVISED JANUARY 2020.

DESIGN DATA

- CODE: 2019 CBC
- 2. WIND DESIGN DATA: DESIGN METHOD: ASCE 7-16 CHAPTER 29 DIRECTIONAL METHOD BASIC WIND SPEED: NOMINAL=85 MPH, ULTIMATE=110 MPH WIND EXPOSURE: E RISK CATEGORY: II
- 3. EARTHQUAKE DESIGN DATA: ASCE 7-16 15.4.2: $V = 0.30 \times S_{Ds} \times W \times Ie$ RISK CATEGORY III le= 1.25 S_s= 1.288 S1= 0.498 SITE CLASS D S_{Ds}= 1.036 SD1=0.598 SEISMIC DESIGN CATEGORY D V = 0.388WEQUIVALENT LATERAL FORCE PROCEDURE
- 4. GEOTECHNICAL DATA: ALLOWABLE SOIL BEARING STRESS = 1500 PSF

CONCRETE AND REINFORCING STEEL:

- 1. MINIMUM CONCRETE F'C = 4000 PSI
- 2. INSERTS: ALL ITEMS TO BE CAST IN CONCRETE, SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.
- 3. REINFORCING STEEL: ASTM A615 GRADE 60. ASTM A706 WHERE WELDED.
- 4. ALL REINFORCEMENT SHALL BE CONTINUOUS. STAGGER SPLICES WHERE POSSIBLE. LAP LENGTHS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

#4: 24" #5: 30" #6: 36" #7: 53" #8: 60"

- 5. ALL BARS SHALL BE CLEAN OF LOOSE FLAKY RUST, GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
- 6. ALL REINFORCING BARS HALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE.
- 7. MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT, UNLESS OTHERWISE NOTED:

CAST AGAINST EARTH:

3 INCHES

CAST IN FORMS AND EXPOSED TO EARTH OR WEATHER: 2 INCHES #6 BAR AND LARGER #5 BAR AND SMALLER 1 ½ INCHES

NOT EXPOSED TO EARTH OR WEATHER: SLABS. WALLS AND JOISTS: #11 BAR AND SMALLER

#14 BAR AND LARGER

¾ INCH 1 岁 INCHES

CLEARANCES ARE TO CLOSEST REINFORCEMENT

- 8. ALL CEMENT SHALL CONFORM TO ASTM C-150.
- 9. FINE AND COURSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE. ALL AGGREGATE SHALL BE PER ASTM C-157 WITH THE AVERAGE DRY SHRINKAGE AT 28 DAYS NOT EXCEEDING 0.04%.
- 10. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
- 11. ALL CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND.

STRUCTURAL INSPECTION AND TESTING:

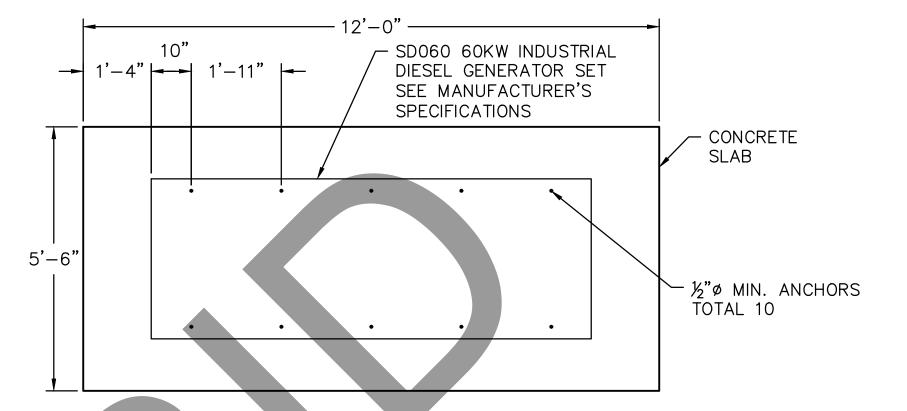
- SECTIONS 1704 AND 1705 OF THE CBC. THE "STATEMENT OF SPECIAL INSPECTIONS" SUBMITTED WITH THE PERMIT APPLICATION INDICATES THE SPECIFIC INSPECTIONS AND TESTS THAT ARE REQUIRED AS WELL AS THE PERSONS OR FIRMS RESPONSIBLE FOR THIS WORK.
- 2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY A CERTIFIED SPECIAL INSPECTOR FROM AN INDEPENDENT TESTING AGENCY WHO IS EMPLOYED BY THE OWNER (OR AGENT OF THE OWNER) AND NOT THE CONTRACTOR.
 - A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, THE ENGINEER AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL
 - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND APPLICABLE STANDARDS OF QUALITY AND WORKMANSHIP OF THE CBC.
- 3. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING INVOLVING THE ARCHITECT, THE ENGINEER, AND THE SPECIAL INSPECTOR TO DISCUSS THE SPECIFIC REQUIREMENTS OF THIS PROJECT.
- 4. MATERIAL TESTING REQUIREMENTS ARE INDICATED IN THE SPECIFICATIONS AND/OR THE GENERAL NOTES
- 5. ALL EARTHWORK AND GRADING SHOULD BE PERFORMED UNDER OBSERVATION OF GROUP DELTA'S REPRESENTATIVE. COMPACTION TESTING OF THE FILL SOILS SHALL BE PERFORMED AT THE DISCRETION OF GROUP DELTA'S REPRESENTATIVE. TESTING SHOULD BE PERFORMED FOR APPROXIMATELY EVERY 2 FEET IN FILL THICKNESS OR 500 CUBIC YARDS OF FILL PLACED, WHICHEVER OCCURS FIRST. IF SPECIFIED COMPACTION IS NOT ACHIEVED, ADDITIONAL COMPACTIVE EFFORT, MOISTURE CONDITIONING OF THE FILL SOILS, AND/OR REMOVAL AND RECOMPACTION OF THE BELOW-MINIMUM COMPACTION SOILS WILL BE REQUIRED.

STATEMENT OF SPECIAL INSPECTIONS:

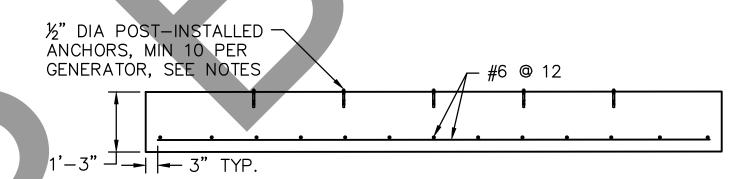
THE FOLLOWING TESTS AND INSPECTIONS ARE REQUIRED FOR PROJECT. THE TESTS AND INSPECTIONS INDICATED HERE ARE THE RESPONSIBILITIES OF THE OWNER'S SPECIAL INSPECTOR, AS REQUIRED BY SECTION 1704 OF THE CBC.

<u>CAST-IN-PLACE CONCRETE:</u>

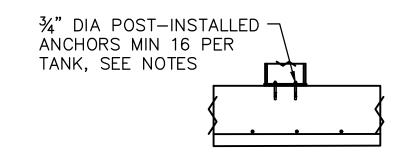
- PROVIDE PERIODIC INSPECTION OF REINFORCING STEEL AND PLACEMENT.
- 2. PROVIDE PERIODIC INSPECTION OF ANCHORS CAST IN CONCRETE.
- 3. VERIFY THE USE OF THE REQUIRED CONCRETE DESIGN MIX.
- 4. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM CONTINUOUS TESTING FOR SLUMP AND AIR CONTENT, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
- 5. PROVIDE PERIODIC INSPECTION OF THE MAINTENANCE OF THE SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
- 6. PROVIDE PERIODIC INSPECTION OF THE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.



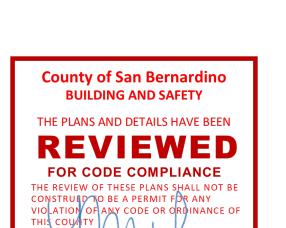
SEE DETAIL A ON SHEET 3 FOR ENLARGED GENERATOR SLAB PLAN SITE PLAN SCALE: $\frac{1}{2}$ "=1"



GENERATOR SLAB SECTION SCALE: $\frac{1}{2}$ "=1"



FUEL TANK CONNECTION DETAIL SCALE: $\frac{1}{2}$ "=1"



03/15/2021

THESE PLANS SHALL BE ON THE JOB FOR ALL

REVIEWED CODE COMPLIANCE Mar 12, 2021 INTERWEST CONSULTING GROUP



COUNTY OF SAN BERNARDINO

SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO. CA 92415-0184

Project Title: FUEL TANK **INFRASTRUCTURE** PHASE III

CIP NUMBER: 20-030

Project No: 1010.0857 Project Address: **Fuel Site** 15000 Tokay Street, Victorville CA 92395

PSOMAS 5 Hutton Centre Drive

Suite 300 Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883



NOT FOR CONSTRUCTION

REVISION DATE Drawing Title:

PRECISE GRADING PLAN

FOUNDATION PLAN

Project No:	2OBR010100
Scale:	
Drawn By:	MS
Reviewd By:	HN
Date:	02/19/2021
Drawing Size:	24 x 36

Drawing Number

07 of 14 Sheets