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 (LOCATED AT 12394 SYCAMORE ST. VICTORVILLE, CA 92392)
- 23. ALL NEW TANKS TO BE CONNECTED TO EMERGENCY GENERATOR

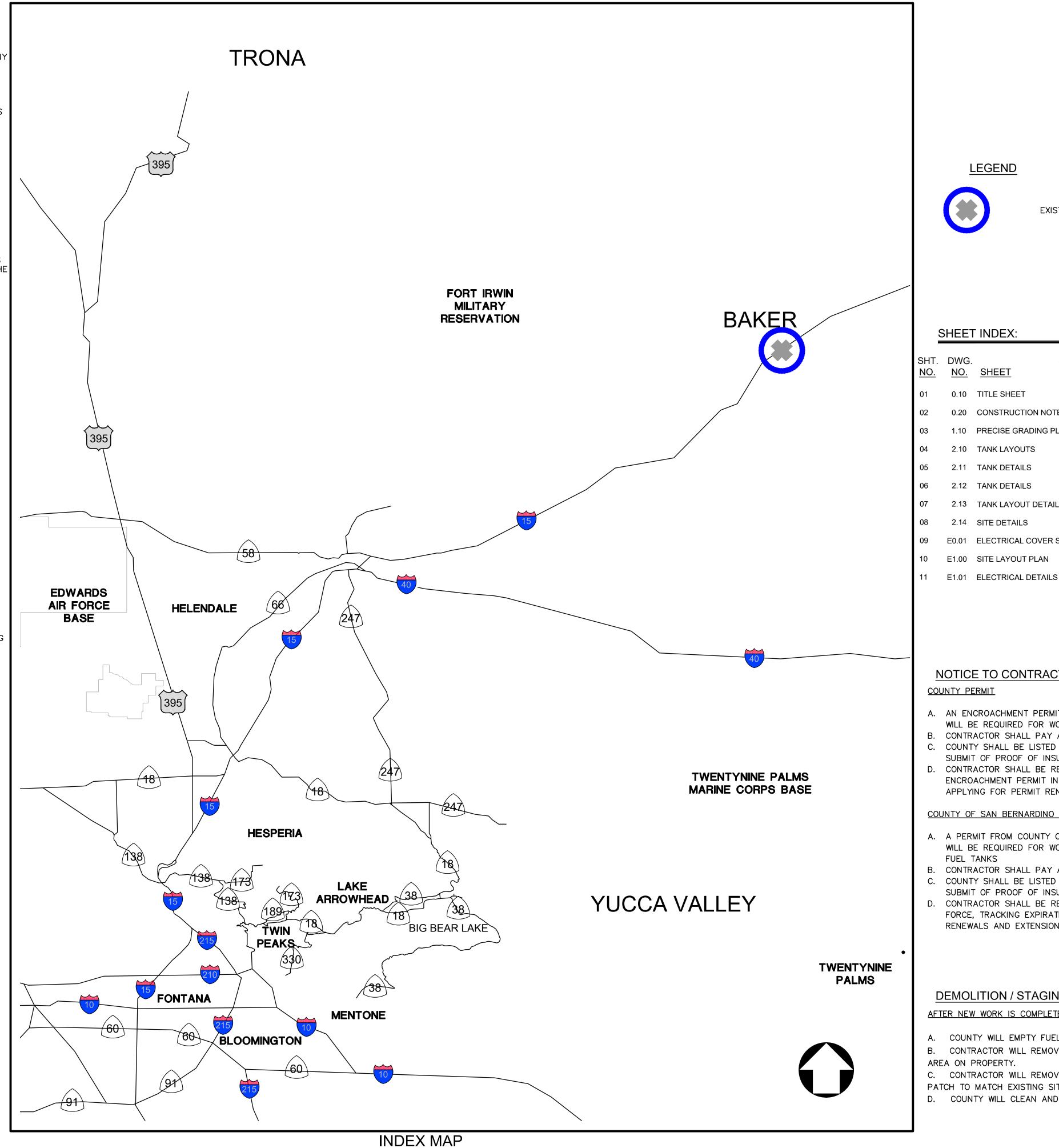
UNAUTHORIZED CHANGES AND USES

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.







EXISTING FUEL SITE

SHEET INDEX:

SHT. <u>NO.</u>	DWG. <u>NO.</u>	SHEET	SITE NO.	REGION	<u>SITE</u>	CITY
01	0.10	TITLE SHEET				
02	0.20	CONSTRUCTION NOT	E MATRIX			
03	1.10	PRECISE GRADING P	LAN	BAKER	Baker Blvd.	Baker
04	2.10	TANK LAYOUTS				
05	2.11	TANK DETAILS				
06	2.12	TANK DETAILS				
07	2.13	TANK LAYOUT DETAIL	LS			
08	2.14	SITE DETAILS				
09	E0.01	ELECTRICAL COVER	SHEET			
10	E1.00	SITE LAYOUT PLAN		BAKER	Baker Blvd.	Baker

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.

DEMOLITION / STAGING OF EXISTING TANKS / NOTES:

AFTER NEW WORK IS COMPLETED AND ACCEPTED:

- A. COUNTY WILL EMPTY FUEL TANKS.
- B. CONTRACTOR WILL REMOVE/RELOCATE FUEL TANKS TO AN UNUSED AREA ON PROPERTY.
- C. CONTRACTOR WILL REMOVE FUEL PADS AND REPAIR PAVEMENT AND PATCH TO MATCH EXISTING SITE CONDITIONS.
- COUNTY WILL CLEAN AND SCRAP EMPTY FUEL TANKS.

SAN BERNARDING

COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

BAKER FUEL SITE

CIP NUMBER:

2SAN020200

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA 92309

PSOMAS 3 Hutton Centre Drive Santa Ana, CA 92707

(714) 751-7373 Fax(714) 545-8883



REVISION DATE

Drawing Title: PRECISE GRADING PLAN

> TITLE SHEET INDEX MAP, NOTES

Revision Date: Scale: Drawn By: Reviewd By: 12/18/19 Drawing Size:

Drawing Number

01 of 11 Sheets

100% CONSTRUCTION DOCUMENTS



COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

BAKER FUEL SITE

CIP NUMBER:

Project No:

2SAN020200

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA 92309

P S O M A S Suite 200 Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883

		1		- ```''	7701 7070 Tax(714) 040 0	
NOTE	CONSTRUCTION ITEM:	QUANTITY	UNIT	-	PROFESSIONAL TO A STATE OF THE	
1	PROTECT IN PLACE (ITEMS NOTED)	1	LS	1		
2	INSTALL FUEL TANK PER DETAIL 2 ON SHT 5	2	EA	1	No. 38832	
2B	INSTALL TANK ACCESSORIES PER DETAIL 2B ON SHT 5	2	LS	1	CIVIL	
2C)	INSTALL RUNG LADDER AND 3'X 18'PLATFORM THAT EXTENDS TO BOTH ENDS OF EACH FUEL TANK -GALVANIZED. SEE DETAIL 2C ON SHT 5	1	EA	1	OF CALL	
2D	INSTALL TANK PUMP (FILL-RITE) PER DETAIL 2D ON SHT 6	2	EA			
2E	INSTALL 2" TANK VALVE (MORRISON) PER DETAIL 2E ON SHT 6	2	EA	1		
3	INSTALL FUEL TANKS LAYOUT PER DETAIL 3 ON SHT. 4	1	EA	1		
4	INSTALL RELIANCE S1 DISPENSER PER DETAIL 4 ON SHT. 5	2	EA	1		
5	CONSTRUCT 10" PCC CONCRETE PAVEMENT PER DETAIL 5 ON SHT. 7	928	SF	1		
6	CONSTRUCTION 6" CONTAINMENT CURB (TYPE A1-6) PER APWA STD. PLAN 120-2. SEE DETAIL 6 ON SHT. 7	126	LF	1		
7	INSTALL BOLLARD PER DETAIL 7 ON SHT. 7	11	EA	1		
8	NOT USED	-	_	Ī		
9	NOT USED	_	_	No.	REVISION	DATE
10	CONSTRUCT 30-FEET WIDE DRIVEWAY APPROACH PER SAN BERNARDINO COUNTY STD. DWG. 129A AND DETAIL 10 ON SHT. 8	378	SF	1		
(11)	INSTALL SLIDING GATE LAYOUT PER DETAIL 11 ON SHT. 8	2	EA	-		
12	INSTALL SENSOR LOOP FOR GATE EXIT AREAS TO BE PROVIDED BY CONTRACTOR. SEE GATE DETAIL 12 ON SHT. 8	2	EA	1		
(13)	INSTALL WIRING AND CONDUIT FOR CARD READER BY CONTRACTOR. CARD READER AND PEDESTAL TO BE PROVIDED BY OWNER. SEE GATE DETAIL 13 ON SHT. 8	2	EA			
14)	INSTALL CHAIN LINK FENCE PER DETAIL 14 ON SHT. 8	181	LF	+		
(15)	INSTALL ACCESS GATE - CHAIN LINK PER DETAIL 15 ON SHT. 8	1	EA			
16)	INSTALL FILTRATION BASIN USING 3/4" GRAVEL WITH GEOFABRIC PER DETAIL 16 ON SHT. 7	1	EA	Drawing	g Title:	
17)	INSTALL 4" PVC STORM DRAIN PIPE (MINIMUM SLOPE OF 0.5%). REMOVE CONFLICTING EXISTING STORM DRAIN PIPE.	78	LF	PRE	ECISE GRADING	3 PLAN
18)	CONSTRUCT REDWOOD HEADER	390	LF			

CONSTRUCTION NOTES MATRIX

	Revision Date:	
	Scale:	
	Drawn By:	MS
	Reviewd By:	HN
	Date:	12/18/19
	Drawing Size:	24 x 36

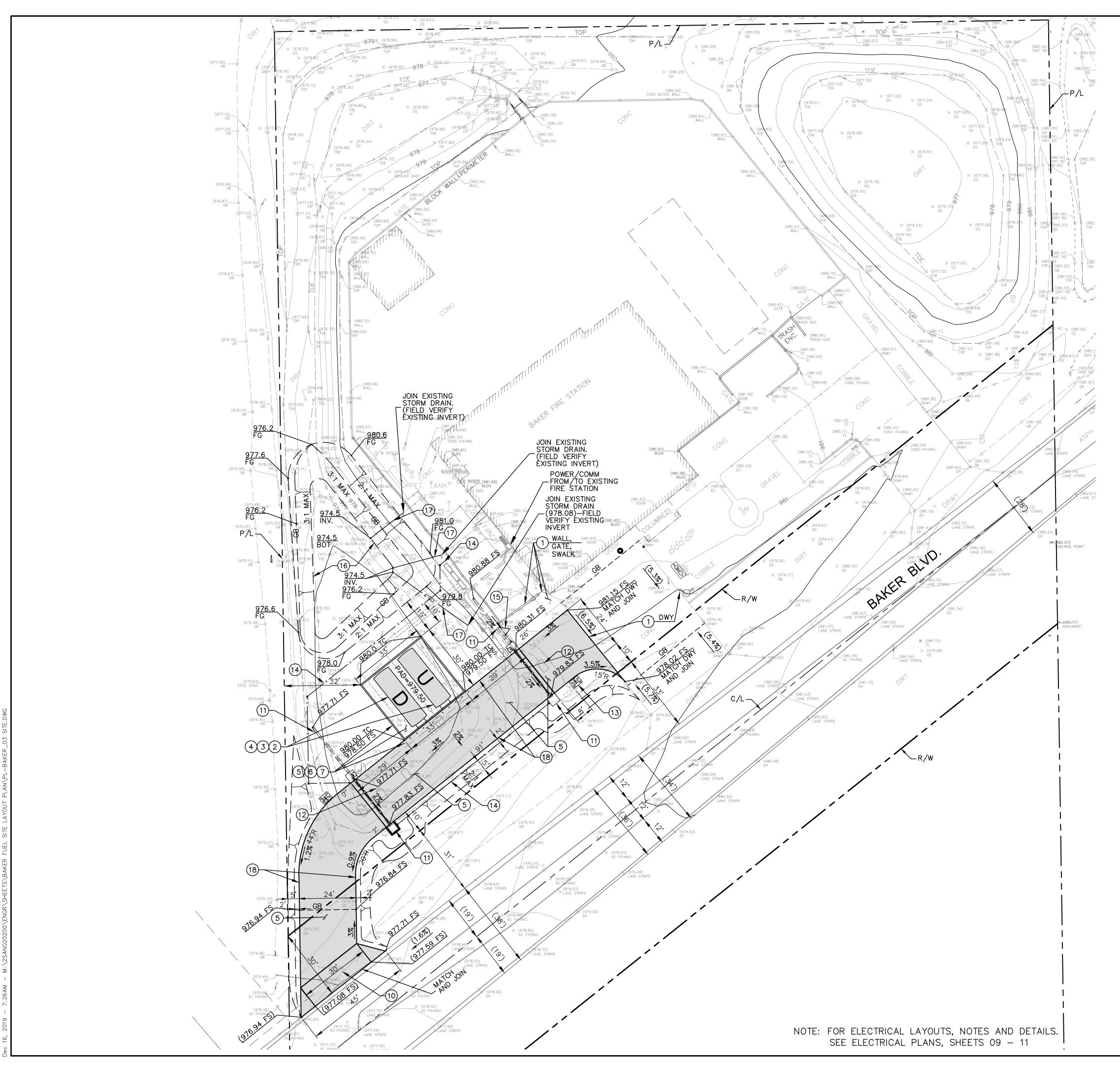
NOTE: THIS IS BEING BID AS LUMP SUMP SO UNIT QUANTITIES ARE PROVIDED FOR REFERENCE ONLY.

CONSTRUCTION NOTES MATRIX

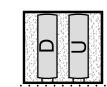
Drawing Number

0.20 02 of 11 Sheets

100% CONSTRUCTION DOCUMENTS



LEGEND



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

COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

Project Title:

BAKER FUEL SITE

CIP NUMBER:

Project No:

2SAN020200

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA 92309

3 Hutton Centre Drive Suite 200 Santa Ana, CA 92707

(714) 751-7373 Fax(714) 545-8883

REVISION



DATE

CONSTRUCTION NOTES

PROTECT IN PLACE (ITEMS NOTED)

GENERAL NOTES

INSTALL FUEL TANK PER DETAILS 2, 2B & 2C ON SHT. 5 AND DETAILS 2D & 2E ON SHT. 6

A. ADD CONDUIT FOR FUEL CONTROLLER AT DISTRIBUTION LOCATION.

C. CONTRACTOR TO PROVIDE CONDUIT FOR DATA LINE AT EACH LOCATION.

G. LOCATION OF EXISTING FUEL TANK AND NEW FUEL TANKS AS INDICATED.

B. CONTRACTOR TO RE-USE / EXTEND EXISTING POWER.

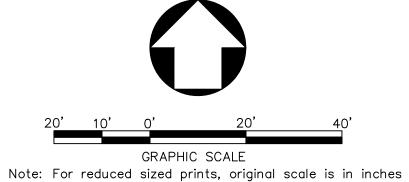
D. REMOVAL AND DISPOSAL OF EXISTING TANKS BY OTHERS.

E. FLEET TO REMOVE PRODUCT FROM EXISTING FUEL TANKS.

H. CONNECT TO POWER SOURCE PER ELECTRICAL ENGINEER.

F. PUMPS AND DISPENSERS TO BE RETURNED TO FLEET.

- 3 INSTALL FUEL TANKS LAYOUT PER DETAIL 3 ON SHT. 4
- (4) INSTALL RELIANCE S1 DISPENSER PER DETAIL 4 ON SHT. 5
- CONSTRUCT 10" PCC CONCRETE PAVEMENT PER DETAIL 5 ON SHT. 7
- CONSTRUCTION 6" CONTAINMENT CURB (TYPE A1-6) PER APWA STD. PLAN 120-2. SEE DETAIL 6 ON SHT. 7
- INSTALL BOLLARD PER DETAIL 7 ON SHT. 7
- 8 NOT USED
- 9 NOT USED
- CONSTRUCT 30-FEET WIDE DRIVEWAY APPROACH PER SAN BERNARDINO COUNTY STD. DWG. 129A AND DETAIL 10 ON SHT. 8
- INSTALL SLIDING GATE LAYOUT PER DETAIL 11 ON SHT. 8
- INSTALL SENSOR LOOP FOR GATE EXIT AREAS TO BE PROVIDED BY CONTRACTOR. SEE GATE DETAIL 12 ON SHT. 8
- INSTALL WIRING AND CONDUIT FOR CARD READER BY CONTRACTOR. CARD READER AND PEDESTAL TO BE PROVIDED BY OWNER. SEE GATE DETAIL 13 ON SHT. 8
- (14) INSTALL CHAIN LINK FENCE PER DETAIL 14 ON SHT. 8
- INSTALL ACCESS GATE CHAIN LINK PER DETAIL 15 ON SHT. 8
- INSTALL FILTRATION BASIN USING 3/4" GRAVEL WITH GEOFABRIC PER DETAIL 16 ON SHT. 7
- INSTALL 4" PVC STORM DRAIN PIPE (MINIMUM SLOPE OF 0.5%). REMOVE CONFLICTING EXISTING STORM DRAIN PIPE.
- (18) CONSTRUCT REDWOOD HEADER



100% CONSTRUCTION DOCUMENTS

Revision Date: 1" = 20' Scale: Drawn By: MS Reviewd By: Drawing Size: 24 x 36

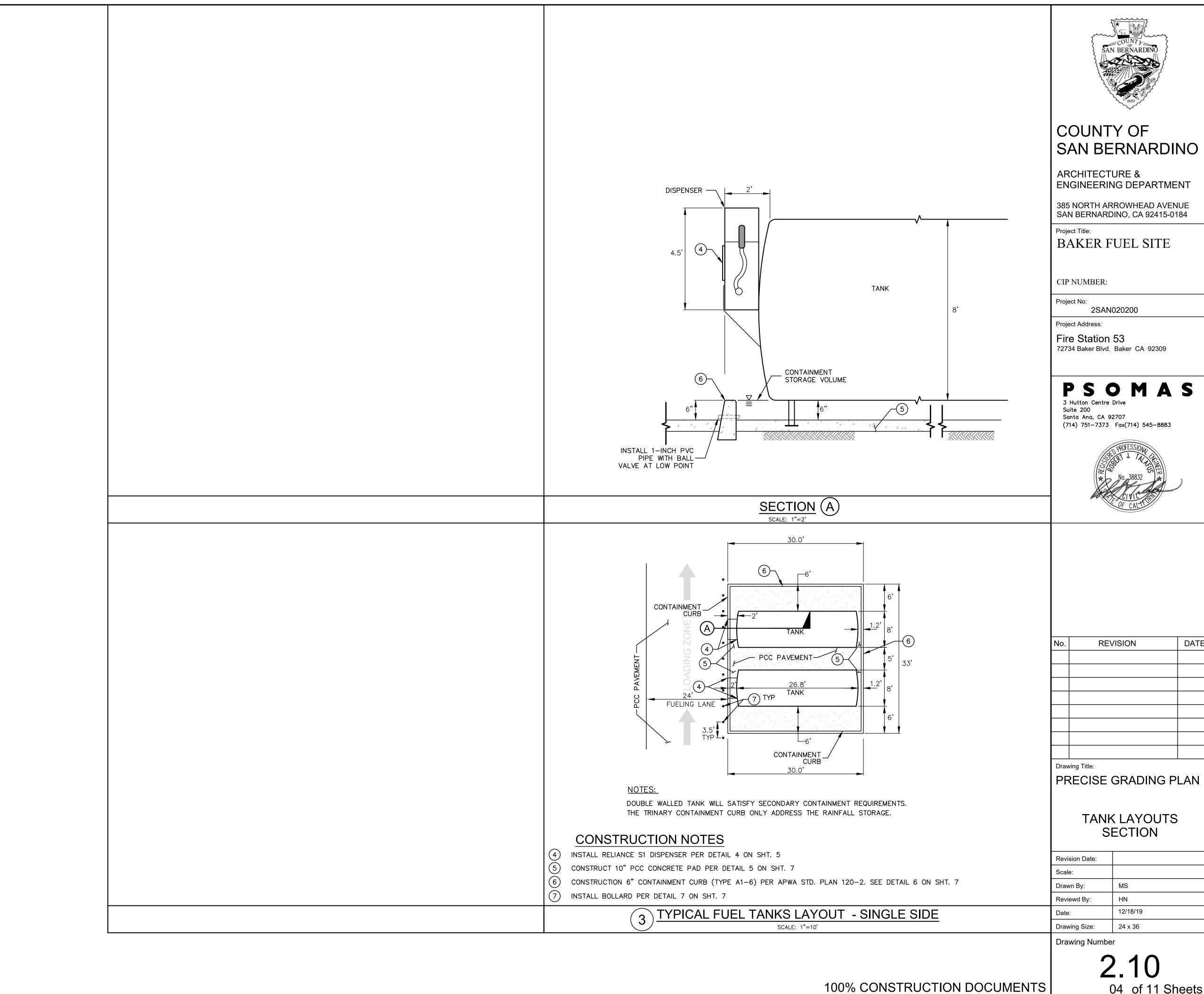
PRECISE GRADING PLAN

PRECISE GRADING PLAN

Drawing Number

Drawing Title:

03 of 11 Sheets



DATE

	Revision Date:	
	Scale:	
	Drawn By:	MS
I	Reviewd By:	HN
	Date:	12/18/19
	Drawing Size:	24 x 36
п		





Shelf-Mount Kit+: Carbon steel shelf brackets for mounting dispenser to

E85** [E/ prefix]: Utilizes nickel-plating, hard anodizing, stainless steel,

Hose Mast [//J]: Raises hose to ease hose handling. Optional hose clamp

and special elastomers, which have been used successfully for E85

Stainless Steel: All exterior panels [//S], all panels except painted

galvannealed steel doors [//S1], or stainless steel doors only [//S2].

Other Options: Liter measure [8] and 230VAC 50/60 Hz operation [Z].

*Flow rates are maximum test rates at discharge. Actual rates will depend upon instal-lation conditions, dispenser accessories and the size of the submersible or

"E/models are UL Listed for Class Hiquids, which include gasoline and diesel. A UL

listing specific to a new UL guideline for ethanol is pending. Select only hose and nozzle accessories that are expressly compatible with the fuel type being dispensed.

kit+ (p/n 890898-001) for Goodyear® vapor recovery hose.

External Filter Kit+: Installs on discharge. P/n 889921-002.

tank. Black powder coat finish. P/n 891839-001.

Pulsers: 10:1 [7A] and 100:1 [7B] ratio options.

Rear View Shown

VR register

with power reset

pulser option)

Removable service -> panels facilitate service

J-box for AC &

pulser terminations

1" two-stage

solenoid valve

Weights & Measures

meter

Vertical strainer with

11/2" dispenser inlet

5" clearance hole

shear valve

for mounting 11/2" .

Note: Kits require field installation.

sealable 2-piston

(10:1 or 100:1





TANK SUPPORT

CUSTOM LADDER, PLATFORMS AND STAIRS

FUEL TECH CAN FABRICATE OSHA COMPLIANT LADDER AND CATWALK SYSTEMS IN MANY

LADDERS, TO COMPLETE FUEL FARM CATWALK

SYSTEMS, FUEL TECH HAS THE EXPERTISE TO

MAKE TANK AND FUEL FARM MAINTENANCE

CUSTOMIZABLE CONFIGURATIONS. FROM

STANDARD TANK-TOP PLATFORM AND

SAFE AND EFFICIENT!

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

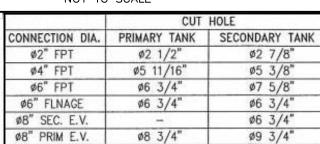
\$8" \$2" \$4" \$52"

WEAR PLATES

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

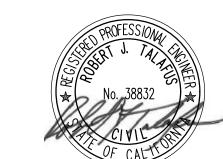
(2B) TANK ACCESSORIES

Ø24" MANWAY Ø25 9/16"



SHIPPING WIDTH----

ø25 9/16"



(714) 751-7373 Fax(714) 545-8883

COUNTY OF

ARCHITECTURE &

CIP NUMBER:

Project Address:

Fire Station 53

Santa Ana, CA 92707

Project No:

SAN BERNARDINO

ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

BAKER FUEL SITE

2SAN020200

72734 Baker Blvd. Baker CA 92309

DATE REVISION Drawing Title:

PRECISE GRADING PLAN

TANKS DETAILS

Revision Date:	
Scale:	
Drawn By:	MS
Reviewd By:	HN
Date:	12/18/19
Drawing Size:	24 x 36

Drawing Number

EMAIL: INFO@FUELTECH.COM 2C RUNG LADDER AND 3' X 18' PLATFORM THAT EXTENDS TO BOTH ENDS OF EACH FUEL TANK - GALVANIZED

FUEL TANK PARTS

FUEL TECH

2680 US HWY 1

MIMS, FL 32754

1-800-628-1863

SVEQ80160

10,000 GALLON CYLINDRICAL TANK SUPER VAULT 133-MHC-1000 2" MORRISON AUTOMATIC SHUTOFF VALVE EVR 16SVEQ1005 16SVGF30015 HINGED GROUND LEVEL FILL SPILL PAN WITH HAND PUMP 16SVGF10503

MHC 3" D5 NON-CARB GROUND LEVEL FILL SYSTEM MHC 3" D5 CARB GROUND LEVEL FILL SYSTEM 16SVGF20503

GASOLINE PHASE I & II DISPENSONG PACKAGE WITH SUCTION PUMP & W&M

WAYNE TANK MOUNTED DISPENSER

L&P10KD5 RUNG LADDER AND 3'x10' PLATFORM MCF STANDARD - GALVANIZED TA-732A

SECONDARY ALARM & SENSORS

LEFT END VIEW

CUSTOMER SIGNATURE:

EST. STEEL TANK WEIGHT:

SHOP ORDER NO.: _____

-23'-37" SHIPPING LENGTH-**ELEVATION VIEW**

MODEL NO. MHC-D5-10000

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

REVISION NO. REQUIRED (1) ONE ITEM NO. NONE modern custom fabrication fresno california P.O. Box 11825 • 2421 E. Cottonia Are. • Freeno, Cottonia 93721 Ptc (559) 264-4741 OR 800-800-1/MK • Fox (559) 237-3413 MODEL NO. MHC-D5-10000 SUPERVAULT MH-PROTECTED ABOVE GROUND STORAGE TANK

RIGHT END VIEW

TANK DETAIL

NOT TO SCALE



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

Available in an E85 compatible model for an easy transition to alternative fueling

Accurately records fuel usage with a weights and measures sealable meter

Compact size is ideal for AST shelf-attached applications and other special situations like marinas

Model Number: Prefix / G6101D / Suffix 1 Options / Suffix 2 Options (e.g. / G6101D / 2JK / W1) 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 E85 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

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,

for corrosion resistance. Front door includes lock and is removable for

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.

or white doors.

PROVIDE WIRELESS DATA TO MAIN BUILDING

RELIANCE S1 DISPENSER

suction pump.

100% CONSTRUCTION DOCUMENTS

05 of 11 Sheets

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	Е	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®	2S	2½	Α	٧	Υ	2½"	1.98	V
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	21/2	А	٧	Υ	21/2"	2.50	M
	927B0200 AA	2"	Dry disconnect adaptor, cam/groove style		Þ	В					
	927S0150 1A	1½"	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	21/2	Α	٧	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			AA	В	Υ		1.0	
EVR	735DC-2500ACEVR	21/2"	Dust cap, use w/ 2" 927 adaptors			Α	В	Υ		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	
EVR	735DCA4000ACEVR	4"	Dust cap, use w/ 3" & 4" 927 adaptors			AA	В	Υ		2.50	

SPECIFICATION OPTIONS:

- A—Threads: 1½" 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)

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

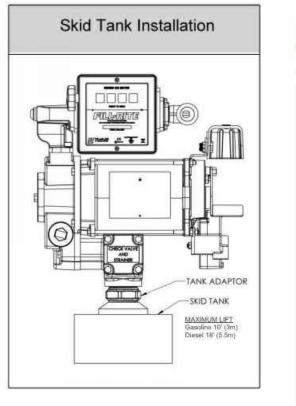
MORRISON BROS. CO.

FILL-RITE. 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 BioDiesei proucts. In this kit the watted materials listed above are changed to VITON and Fluorecarbon seals allow for compatibility with BioDiesei products.

- 1-1/4" pipe cut to a length that will terminate at least 3" from the bottom of the tank when installed into the tank adapter with the tank adapter installed into the tank flange (see SKID TANK INSTALLATION diagram).
- Threaded pipe joint sealant appropriate for application.
- Thread the 1-1/4" pipe into the tank adapter. Seal threads liquid tight with appropriate thread
- 2) Install the tank adapter into the tight with appropriate thread Mount the pump on the adapter

seal threads liquid tight with appropriate thread sealant.

Fill-Rite recommends installation of our Anti-Siphon Device (see page 7 for detailed information).



Repair Kits (kit # / parts included

KIT300SW: 36, Lever not shown

FILL-R FR313V Technical Specifications

The Most Trusted Name in Pumps and Meters Power -AC 115, 230, 115/230 None HP (horsepower) rating Power cord length None Power cord gauge Power cord DC battery connectors 1725/1425 FR313V UL, cUL 14 60.06 Anti-siphon Ready Outlet - Size / Thread NPT

> Bung (NPT) Cast Iron

iesel, Gasoline, Bio-Diesal u

to B20, E15, Kerosene

40 x 40 x .008"

None

None

None

None

None

None None

None

0-89404-07657-6

18

Anti-Siphon Anti-Siphon Hose and Hardware Shaft Seal 8 Piece Assembly **Tuthill**

Compatible fluids

Accessories

Nozzle- manual / automatic

Hose static wire (Y/N

PUMP TO BE LOCATED AT TOP OF EACH TANK.

FILL-RITE 300 SERIES PUMP

COUNTY OF SAN BERNARDINO

ARCHITECTURE & **ENGINEERING DEPARTMENT**

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

BAKER FUEL SITE

CIP NUMBER:

Project No: 2SAN020200

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA 92309

Santa Ana, CA 92707

(714) 751-7373 Fax(714) 545-8883



DATE REVISION

PRECISE GRADING PLAN

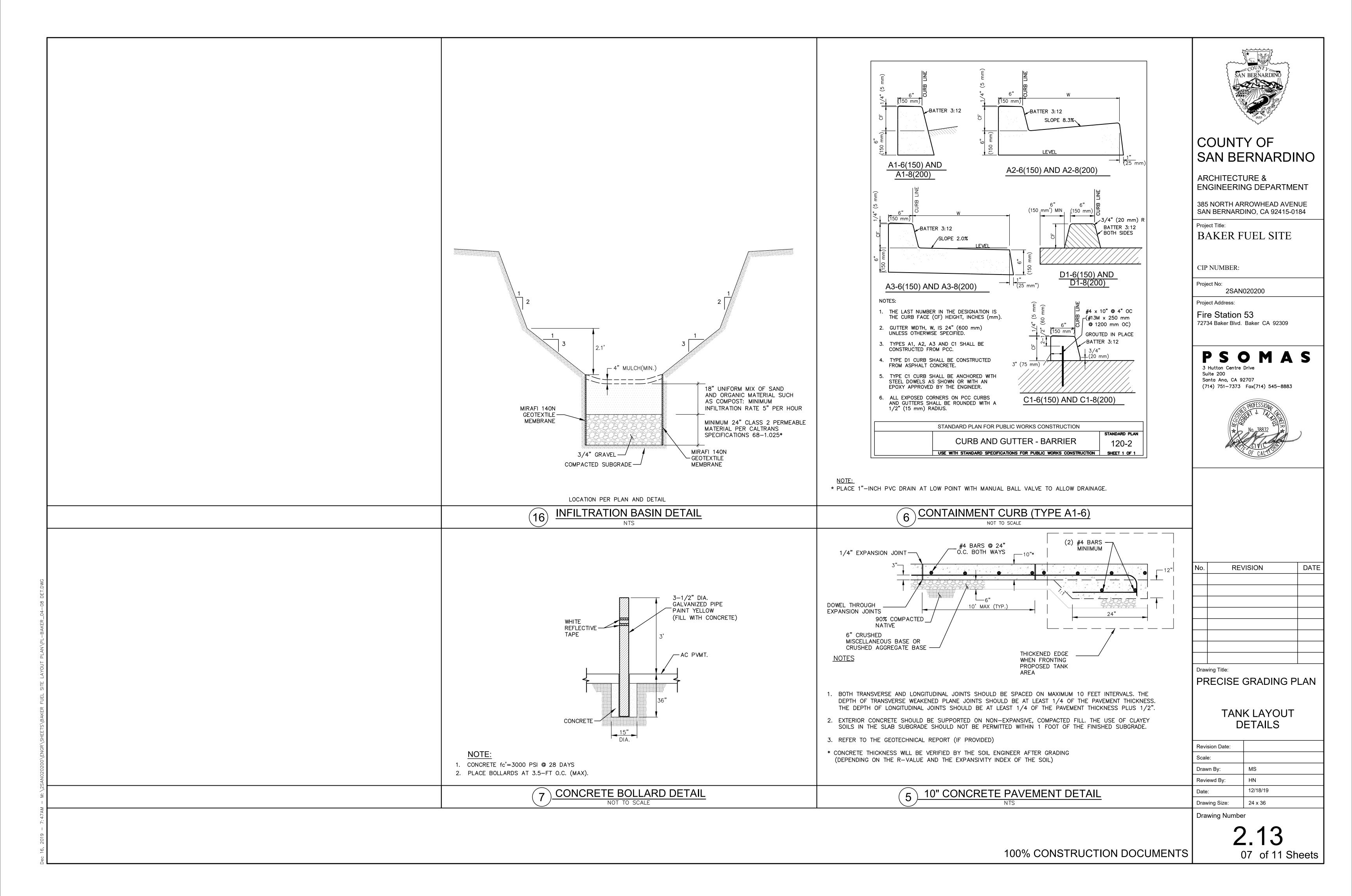
TANK DETAILS

	Revision Date:	
	Scale:	
	Drawn By:	MS
	Reviewd By:	HN
	Date:	12/18/19
	Drawing Size:	24 x 36

Drawing Number

06 of 11 Sheets

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



Typical Slide Gate With Steel Stop And Guide Posts Gate Operator Detail SaletyLoop 4'-0" Track Footing Safety Photo Beam

> SLIDING GATE LAYOUT NOT TO SCALE

24'minimum — 34'maximum

Existing Edge Of Surfacing

PLAN

SECTION

I, Driveway Approach Location Shall Be As Indicated In The S.B. Co.

a, Type B Asphalt Concrete Grade AR-4000, 1/2" Max. Med., 3"

b. In Areas Not Regularly Subjected To Snowplowing, Portland Cement Concrete Class B 6" Thick May Be Used.

4. Where Existing Berm is Removed, The Approach Shall Be Constructed

To An Elevation Equal In Height To Control Drainage.

Transportation Department Road Planning & Design Manual And Per

COUNTY OF SAN BERNARDINO

ARCHITECTURE & **ENGINEERING DEPARTMENT**

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

Project Title:

BAKER FUEL SITE

CIP NUMBER:

Project No:

2SAN020200

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA 92309

3 Hutton Centre Drive Santa Ana, CA 92707



DATE REVISION

Drawing Title: PRECISE GRADING PLAN

> SITE **DETAILS**

Revision Date: Scale: Drawn By: Reviewd By: 12/18/19 24 x 36 Drawing Size:

Drawing Number

13 WIRES AT 5" (125 mm) OC CAP - NOTE 1 OF FABRIC 45° ARM -CORNER OR END POST ---CORNER POSTS USED GROUND LINE ~ WHERE FENCE LINE DEFLECTION GREATER 36" B (900 mm) BOTTOM OF FABRIC THAN 30° 5' (1.50 m) 30" OR LESS (750 mm) OVER 5' 36" (900 mm) (300 mm) TYPICAL FENCE INTERMEDIATE / SLOPE POST 12" (300 mm) ¬ PIPE RAIL TENSION TENSION ROD WITH TRUSS TIGHTENER BAR POST ×NOTE 8 INTERMEDIATE POSTS USED AT 300' (90 m) MAX O.C. SLOPE POSTS USED AT GRADE CHANGES > 5%. (900 mm) 12" (300 mm) INTERMEDIATE / SLOPE POST FOR WALL THICKNESS LESS THAN 8" (200 mm), INSTALL FENCE OUTSIDE WALL -ALTERNATE TOP OF WALL SEE EMBEDMENT ^L2" (50 mm) TO DETAIL, SHEET 2 BOTTÒM OF FABRIC CHANNEL WALL AND WINGWALL AT HEADWALL STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION CHAIN LINK FENCE AND GATES

TENSION ROD & TIGHTENER ackslash stiffener oxtimes∑8' (2.4 m)∭∰ MAX O.C. PLUNGER ROD / (900 mm) PLUNGER CUP IN 1 CF (0.03 m³) PCC POST OD + 8" (200 mm) WALK GATE DRIVE GATE (100 mm) **GUSSET** (125 x NON-SHRINK FOR LINE POSTS, GROUT ~ ELSE 18" (450 mm) CHAIN AND LOCK CUT-OUT ĞREATER

#5 x 12" RE-BAR (#16M x 300 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

CHAIN LINK FENCE AND GATES

V_1/8" (3 mm) STL PLATE

STANDARD PLAN

SHEET 2 OF 3

600-3

SAME AS FENCE

MAX SINGLE LÉAF

TYPICAL CHAIN LINK FENCE AND GATES

PLUNGER CUP

ISOMETRIC

KEN A. MILLER

Director of Transportation

Existing Flowline

NOTES:

* 10" Thick

REV. 3/1/94

SAN BERNARDINO COUNTY TRANS, DEPT.

Standard Nº 130.

2. Surfacing Material Shall Be:

c. Unpaved, If The Roadway Is Unpaved,

3. Flowline Grade Shall Be Maintained.

HEADWALL

FENCE -

USE PIPE

HEADWALL

STANDARD PLAN

600-3

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHEET 1 OF 3

RAIL

DRIVEWAY APPROACH NOT TO SCALE

COMMERCIAL DRIVEWAY

WITHOUT CURB

APPROACH

Existing Surfacing

129a

Flowline

<u>POST</u>

EMBEDMENT

BARBED WIRE - NOTE 4

STANDARD PLAN STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 600-3 CHAIN LINK FENCE AND GATES SHEET 3 OF 3

1. SECURE DRIVE-FIT GALVANIZED CAP TO POST WITH 1/4" (6 mm) ROUND-

2. H DENOTES FABRIC WIDTH AND NOMINAL FENCE HEIGHT. H = 5' (1.5 m)

3. IF FENCE WITH TOP RAIL IS SPECIFIED, DELETE STEEL TENSION WIRE AT

6. FILL CLEAR OPENINGS GREATER THAN 3" (75 mm) WITH FABRIC. FOR

OPENINGS LESS THAN 18" (450 mm), TIE FABRIC TO POSTS.

7. USE ONE POST FOR COMBINED SLOPE AND CORNER POST IF TOP OF CHANNEL WALL IS CONSTRUCTED AS SHOWN FOR "ALTERNATE".

8. STEEL BANDS AT TENSION BARS SHALL BE 1/8" x 1" (3 x 25 mm),

TOP, AND PIPE RAILS AT INTERMEDIATE, SLOPE, END AND CORNER POSTS.

HEAD RIVET.

UNLESS OTHERWISE NOTED.

EXTEND TENSION ROD TO TOP RAIL.

5. POST SPACING IS MAXIMUM 10' (3.0 m).

4. BARBED WIRE SHALL BE USED ONLY WHEN SPECIFIED.

MINIMUM, SPACED AT MAXIMUM 16" (400 mm).

9. SECURE TENSION WIRES TO EACH LINE POST WITH TIE WIRES.

100% CONSTRUCTION DOCUMENTS

08 of 11 Sheets

ELECTRICAL ABBREVIATIONS

DIAMETER

DOWN

EACH

DRAWING

DISCONNECT

EMERGENCY

EQUIPMENT

EXISTING

EXTERIOR

FEEDER

FIXTURE

FLOOR

FIRE ALARM

FLUORESCENT

GALVANIZED

GENERATOR

GROUND

HEATER

INTERCOM

HORIZONTAL

HORSEPOWER

HIGH OR HEIGHT

AIR CONDITIONING

ISOLATED GROUND

INCANDESCENT INDICATED INTERIOR

JUNCTION BOX

KILOWATT HOUR

KILOWATT

LENGTH

LOCATION

LOW VOLTAGE

LIGHTING

MAXIMUM

MOUNTED

MOUNTING

MECHANICAL

MANUFACTURER MANHOLE

MOUNTING HEIGHT

NOT APPLICABLE NON-AUTOMATIC

NON FUSIBLE NIGHT LIGHT

NOT TO SCALE OVERLOADS

PUBLIC ADDRESS

POINT OF CONNECTION

PULLBOX PHOTOCELL

POWER

RECEPTACLE

REQUIRED ROOM

KILOVOLT AMPERES

LONG CONTINUOUS LOAD

MALL AIR CONDITIONING

MOTOR CONTROL CENTER

MINIMUM OR MINUTES

FULL LOAD AMPERES

GROUND FAULT CIRCUIT INTERRUPTER

GROUND FAULT INTERRUPTER

HEATING, VENTILATING AND

ELECTRIC DRINKING FOUNTAIN

ELECTRIC OR ELECTRICAL

ELEVATION OR ELEVATOR

DISC.

DN

DWG

EDF

ELEC

ELEV

EMERG.

EQUIP.

EXIST.

EXT.

FDR.

FIXT.

FLA

FLUOR.

GALV.

GEN

GFCI

GND

HORIZ.

HTR

INCAND.

KW

KWH

LOC.

LTG

L.V.

MCC

MFR.

MIN

MTD

MTG

N/A

NTS

PNL P.O.C.

PWR.

RECEPT

REQ'D

MTG. HT.

MECH

GFI

AFC A.F.F. ARCH. AS AT	AMP SWITCH AMP TRIP	STD. SURF.	SHEET SOLENOID SPEAKER SQUARE FEET STANDARD SURFACE SWITCH SWITCHBOARD
ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	TAC TEL	TELEPHONE
BKBD C	BACKBOARD CONDUIT	TEMP. TRANSF. TTB	TEMPORARY OR TEMPERATURE TRANSFORMER TELEPHONE TERMINAL BACKBOARD
CAP.	CAPACITY COMMUNITY ANTENNA TELEVISION CIRCUIT BREAKER	TV TYP	
CCTV C.I.	CLOSED CIRCUIT TELEVISION CAST IRON	U.G. U.O.N.	UNDERGROUND UNLESS OTHERWISE NOTED
CKT CLG. CLR. C.O. COMPR.	CEILING CLEAR CONDUIT ONLY COMPRESSOR	V VA V.D. VERT.	
CONC. CONDR. CONN. CONT. C.W.	CONCRETE CONDENSER CONNECT OR CONNECTION	W W/ W/O W.P.	WATTS OR WIRE OR WIDE WITH WITHOUT WEATHERPROOF
D DET.	DEPTH DETAIL		

POWER AND WIRING DISTRIBUTION

	BRANCH CIRCUIT PANELBOARD
	SWITCHBOARDS, DISTRIBUTION PANELBOARD OR MOTOR CONTROL CENTER
T	TRANSFORMER, SIZE AS INDICATED ON PLAN
	CONDUIT RUN CONCEALED IN CEILING OR WALL (SEE SPECIAL SYSTEMS AND DEFINITION SYMBOLS FOR RACEWAY CODING)
	CONDUIT RUN EXPOSED
− − # −	CONDUIT RUN BELOW FLOOR SLAB OR GRADE
#10	
	HASH MARKS INDICATE THE QUANTITY OF CONDUCTORS REQUIRED. UNLESS OTHERWISE NOTED, NO HASH MARKS INDICATE 2 #12 AWG (#10 AWG CONDUCTORS INDICATED). WHERE A NUMBER IS NOT INDICATED, THE CONDUCTORS ARE #12 AWG (MIN).
	CONDUIT SIZE SHALL BE AS FOLLOWS:
	CONDUCTORS MIN. RACEWAY SIZE 12 10 8 THREE-QUARTER INCH (MIN) 1 to 6 1 to 3 ONE INCH 9 to 13 7 to 11 4 to 5 *QUANTITY OF CONDUCTORS AS INDICATED (TYP.)
	INDICATES A HOMERUN TO PANEL 2LA, CIRCUITS 1-3-5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL
Q_	FLEXIBLE CONDUIT
QQ,	CABLE OR CORD ARROW INDICATES A PLUG-IN CONNECTION
—— G ——	GROUND CONDUCTOR
NOTES: 1)	MOUNTING HEIGHTS NOTED ARE DISTANCES MEASURED FROM THE DEVICE

SURFACE MOUNTED SWITCHES WITH MOUNTING HEIGHT +46" (U.O.N.)

CENTERLINE TO THE FINISH FLOOR OR FINISH GRADE, UNLESS OTHERWISE

2) CIRCLE WITH A NUMBER INSIDE REFERS TO A SPECIAL NOTE ON THE

DISCONNECT SWITCH WITH OVERCURRENT PROTECTION.
SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER. U.O.N.

DRAWING WHERE IT IS INDICATED.

-----O CONDUIT BEND UP TOWARD OBSERVER

CONDUIT BEND DOWN AWAY FROM OBSERVER

- COMBINATION MOTOR STARTER-DISCONNECT DEVICE, WITH OVERCURRENT
- PROTECTION UNLESS OTHERWISE NOTED
- MAGNETIC MOTOR STARTER.
- S $_{\mbox{\scriptsize m}}$ MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD PROTECTION.
- S T MOTOR RATED TOGGLE DISCONNECT SWITCH.

GENERAL POWER OUTLETS

- EP 1 SURFACE MOUNTED JUNCTION BOX. EP INDICATE EXPLOSION PROOF
- EP

 ABOVE GROUND JUNCTION BOX 12" ABOVE FINISH FLOOR, EP INDICATE EXPLOSION PROOF.

N.E.C. HAZARDOUS AREA NOTES:

- 1. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION
 (UNDERGROUND TANK FILL OPENING) EXTENT OF
 CLASS 1, GROUP D, DIVISION 1 LOCATION:
 ANY PIT, BOX OR SPACE BELOW GRADE LEVEL, ANY
 PART OF WHICH IS WITHIN THE DIVISION 1 OR 2
 CLASSIFIED LOCATION. EXTENT OF CLASS 1, GROUP
 D, DIVISION 2 LOCATION:
 UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A
 HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE
 FILL CONNECTION AND WITHIN A HORIZONTAL
- RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.

 2. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK VENT—DISCHARGE UPWARD) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:

WITHIN 3 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
SPACE BETWEEN 3 FEET AND 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

- 3. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
 ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION. EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION:
 WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTIONS. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.
- 4. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE PITS) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION:
 ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.

- 5. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS.
- 6. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.
- 7. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: VAPOR PROCESSING SYSTEM PITS ANY PIT OR BOX BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN A DIVISION 1 OR DIVISION 2 CLASSIFIED LOCATION OR THAT HOUSES ANY EQUIPMENT USED TO TRANSPORT OR PROCESS VAPORS
- 8. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE OUTDOOR) EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: VAPOR PROCESSING EQUIPMENT LOCATED WITHIN PROTECTIVE ENCLOSURES WITHIN ANY PROTECTIVE ENCLOSURE HOUSING VAPOR PROCESSING EQUIPMENT.
- 9. TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE DISPENSER) EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

GENERAL NOTES:

- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- ALL DEVICES INSTALLED OUTSIDE OR IN DAMP LOCATIONS SHALL BE APPROVED WEATHERPROOF.
- 3. ALL WIRE SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, TYPE THHN/THWN INSULATION, NO. 12 MINIMUM SIZE EXCEPT FOR CONTROLS.
- 4. PROVIDE SUPPORT FOR ALL FIXTURES AND ELECTRICAL EQUIPMENT TO COMPLY WITH SEISMIC REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.
- 5. PROVIDE AN ENCLOSURE OF EQUAL FIRE RESISTANT RATING AROUND ALL FIXTURES AND EQUIPMENT INSTALLED IN OR PENETRATING THROUGH FIRE RATED SEPARATIONS.
- 6. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS SECTIONS WHERE ELECTRICAL WORK INTERFACES WITH OTHER TRADES.
- 7. WIRING IN JUNCTION BOXES, USED TO FEED SURFACE MOUNTED FIXTURES, ETC., SHALL BE ACCESSIBLE WITHOUT THE REMOVAL OF FIXTURES.
- 8. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL RECEPTACLES AND SWITCHES.
- 9. PAY ALL COST ASSOCIATED WITH CONSTRUCTION INCLUDING BONDS, INSURANCE, PERMITS AND INSPECTION FEES.

SAN BERNARDINO
1853

COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

Project Title:

PROJECT 5F15

FLEET MANAGEMENT FUEL TANK REPLACEMENT PROJECT - PHASE I

CIP NUMBER: 15-009

Project No:

4SAN030303

Project Address:

Fire Station 53
72734 Baker Blvd. Baker CA

P S O M A S 3 Hutton Centre Drive Suite 200 Santa Ana, CA 92707

(714) 751-7373 Fax(714) 545-8883





421 East Huntington Drive Monrovia, California 91016 P: 626.930.1383 F: 626.930.1385 Job No: 18035

No.	REVISION	DATE
	BID DRAWINGS	

Drawing Title:

ELECTRICAL COVER SHEET

> BAKER Fire Station 53

	Revision Date:	
	Scale:	1" = 40'
	Drawn By:	
	Reviewd By:	
	Date:	12/18/19
	Drawing Size:	24 x 36
		·

Drawing Number

E0.01
09 of 11 Sheets

LIGHTING FIXTURE SCHEDULE LAMPS INPUT MANUFACTURER MOUNTING TYPE REMARKS SYMBOL (*) DESCRIPTION & CATALOG NO. WATTS TYPE VOLT MOUNTED 20' ON SQUARE STEEL POLE; KAD LED 40C 700 40K 94 LED 120 20' HIGH LED STEEL WITH PHOTOCELL AND R5-MVOLT SPD-PER7-PIRH LIGHT POLE POLE MOTION SENSOR

INSTALL EQUIPMENT GREEN GROUNDING CONDUCTOR, SIZED PER N.E.C. 250-122 IN ALL CONDUITS. GROUND WIRES ARE NOT SHOWN ON DRAWINGS OR IN SYMBOL LIST.

DESCRIPTION	V	VOLT-AMPS			OUTLET		TS C		C K	Вι	US	C K	С	OUT	TLETS	L	٧	OLT-AMF	PS .		DESCRIPTION
	Α	В	С	- C	L	R	М	В	T	ΑI	вС	T	В	L	R M	L	Α	В	С		
1 LIGHT POLE	100			0			2	20A-1P	1	+	+	2	20A-1P							SPARE	
SPARE							2	20A-1P	3	+	+ +-	4	20A-1P							SPARE	
NORTH ENTRY GATE			790				2	20A-2P	5	+	+	6	20A-1P							SPARE	
	790							-	7	+	+	8	20A-1P							SPARE	
SOUTH ENTRY GATE		790					2	20A-2P	9	+	+ -	10	20A-1P							SPARE	
			790					-	11		+		20A-1P							SPARE	
SPARE							2	20A-1P	13	+	+	14	20A-1P							SPARE	
CONTROL CIRCUIT		100					2	20A-1P	15	+			20A-1P							SPARE	
EPO RELAY			100					20A-1P		+			20A-1P							SPARE	
SPARE													20A-1P								
								20A-1P					20A-1P								
<u> </u>								20A-1P					20A-1P							<u> </u>	
SPACE							2	20A-1P		+			20A-1P							SPACE	
									27	+		28									
<u> </u>									29	+		30								1	
											+										
									33	+	+ +-										
									35	\pm	+	36									
						_	+	_	37	+	+	38									
									39	+	+ -	40									
									41	+	+	42									
SUB TOTALS	890	890	1680														0	0	0		SUE

VOLTAGE 120/208 3Ø, 4W BUS AMPS 125 MAIN BREAKER □ A.F. LUGS ONLY ☒					PANEL <u>"EM"</u>													LOCATION YARD TOP FEED SURFACE MTG. BOTTOM FEED S FLUSH MTG. REMARKS AIC RATING: 10,000				
DESCRIPTION	VOLT-AMPS			L OUTLETS		TS	s c		BL	JS	C	C C		OUTLETS		L VO		OLT-AMPS	3	DESCRIPTION		
	Α	В	С	L	L R	М	В	K T	ΑE	вс	T B	L	R		L	Α	В	С				
EXISTING GEN. LIGHTING	1593			0		20	A-1P	1	•	+	2	20A-1P					300			EXISTING PIV TAMPER SWITCH		
EXISTING GEN. LIGHTING		535		0		20	A-1P	3	+	+	4	20A-1P						300		EXISTING FIRE SPRINKLER CT		
EXISTING FUEL PUMP #1			500			20	A-2P	5	+	+	6	20A-1P							540	EXISTING RECEPTACLES		
	500						-	7	+	+	8	20A-1P					600			EXISTING RADIO/AMPLIFIER		
UNLEADED PUMP		1660				20	A-1P	9	+	+	10	20A-1P						100		EXISTING E.F. CTRL PNL.		
UNLEADED PUMP			1660			20	A-1P	11	+	•	12	20A-1P							1176	EXISTING DOOR OPENER		
SPARE						20	A-1P	13	+	+	14	20A-1P					1176			EXISTING DOOR OPENER		
EXISTING GATE		1800				20	A-1P	15	+	+	16	20A-1P						1176		EXISTING DOOR OPENER		
EXISTING GATE			1800			20	A-1P	17	+	+	18	20A-1P							1176	EXISTING DOOR OPENER		
EXISTING FREEZER	1200					20	A-1P	19	+	+	20	20A-1P					900			EXISTING RECEPT.		
EXISTING LTS-ON CALL		280		0		20	A-1P	21	+	+	22	20A-1P						720		EXISTING RECEPT.		
EXISTING ICE MACHINE			1200			20	A-1P	23	+	•	24	20A-1P							900	EXISTING REFRIG.		
EXISTING RECEPTACLE	1080					20	A-1P	25	+	+	26	20A-1P								SPARE		
EXISTING RECEPTACLE		1080				20	A-1P	27	+	+	28	20A-1P						500		EXISTING SELECTOR SWITCH RELAY:		
EXISTING RECEPTACLE			1080			20	A-1P	29	+	+	30	20A-1P							580	UNLEADED DISPERSER		
EXISTING SMOKE DETECTORS						20	A-1P	31	+	+	32	20A-1P					580			UNLEADED DISPERSER		
SPARE						20	A-1P	33	+	+	34	20A-1P								SPARE		
SPARE						20	A-1P	35	+	+	36	20A-1P								SPARE		
SPARE						20	A-1P	37	+	+	38	20A-1P								SPARE		
SPARE						20	A-1P	39	├	+	40	20A-1P								SPARE		
EXISTING LIGHTING			700	0		20	A-1P	41	+	+	42	20A-1P								SPARE		
SUB TOTALS	4373	5355	6940										•				3556	2796	4372	SUB TOTALS		
CONN. PHASE TOTAL: A 79	929 B -	8151	C11	312		COI	NN. P	ANE	L TO	ΙAΤ	L	27392		KVA			MAX.	CONN. LI	NE CURR	ENT 94 AMPS		



EMERGENCY POWER OFF(SHUTOFF) NOTE

EMERGENCY POWER OFF (SHUTOFF) SWITCH CONTROLS OPERATION OF FUELING CONTROLS EMERGENCY SHUTDOWN. PUSH-BUTTON OPERATOR IN SURFACE MOUNTED NEMA 3R, ENCLOSURE WITH HINGED CLEAR COVER, PROVIDED BY ELECTRICAL CONTRACTOR. (STI-SERIES 2000-RED MANUFACTURED BY STI). ELECTRICAL CONTRACTOR TO PROVIDE NAMEPLATE AT SHUTOFF SWITCH WITH THE INSCRIPTION "EMERGENCY SHUTOFF SWITCH". THE NAMEPLATE WILL BE RED WITH J-BOX FOR AUTOMATIC DOOR. VERIFY LOCATION OF J-BOX WITH DOOR MANUFACTURER.

SYMBOL LEGEND

T = EYS EXPLOSION PROOF SEAL-OFF FITTING.

CONDUIT SEAL-OFF FITTING NOTES

IF CONDUIT RUNNING FROM CLASS 1, DIVISION 2 HAZARDOUS AREA TO UNCLASSIFIED AREA, BOTH ENDS SHALL BE EQUIPPED WITH EYS EXPLOSION SEAL-OFF FITTING. NO EXCEPTION.

GENERAL NOTES

ALL UNDERGROUND SITE WORK CONDUIT TO BE BURIED MINIMUM 24" BELOW FINISH GRADE AND USE MIN 3/4" CONDUIT U.O.N.

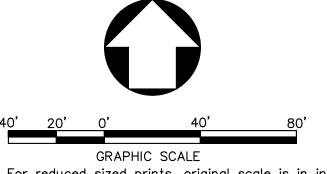
CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY IN NATURE AND IS NOT INTENDED TO SHOW EXACT CONDUIT ROUTING. THE ELECTRICAL CONTRACTOR SHALL DETERMINE, IN THE FIELD, THE BEST ROUTING TO AVOID ANY INTERFERENCE WITH UNDERGROUND UTILITIES OR OTHER EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND TERMINATION OF CONDUIT AND WIRING.

ALL UNDERGROUND CONDUITS FROM HAZARDOUS AREAS ENTERING THE BUILDING TO BE PROVIDED WITH EYS SEAL-OFFS AT POINTS OF ORIGIN AS WELL AS POINTS OF TERMINATION, AND SHALL BE LABELED WITH A METAL TAG AS TO THEIR ORIGIN.

ALL RIGID GALVANIZED STEEL (RGS) CONDUIT DIRECTLY BURIED IN GROUND SHALL BE PVC COATED. NO EXCEPTIONS.

KEY NOTES

- 1 IP CIRCUIT BREAKER WITH SWITCHED NEUTRAL. RUN DEDICATED NEUTRAL
- 2 CONTROL VIA 2P RELAY (SWITCH NEUTRAL) AND PHOTOCELL IN SEPARATE COMPARTMENT.
- 3 UNDERGROUND SAFETY LOOP SENSORS
- 4 UNDERGROUND EXIT LOOP SENSOR.
- 5 GATE OPERATOR DEVICES & MATERIALS PROVIDED WITH THE UNIT. INSTALL PER TYPICAL SLIDING GATE LAYOUT PER CIVIL DRAWING NUMBER 2.14, SHEET 8.
- 6 NOT USED.
- 7 GATE OPERATOR REMOTE KEY PAD CONTROL.
- 8 1" CONDUIT FOR DATA CONTROL CABLING BY OTHERS. VERIFY CABLING WITH GATE OPERATOR SUPPLIER.
- 9 POWER AND CONTROL J-BOXES FOR GATE OPERATORS, WITH INTEGRAL DISCONNECT SWITCHES.



Note: For reduced sized prints, original scale is in inches

100% CONSTRUCTION DOCUMENTS



COUNTY OF SAN BERNARDINO

ARCHITECTURE & ENGINEERING DEPARTMENT

385 NORTH ARROWHEAD AVENUE SAN BERNARDINO, CA 92415-0184

Project Title:

PROJECT 5F15

FLEET MANAGEMENT FUEL TANK REPLACEMENT PROJECT - PHASE I

CIP NUMBER: 15-009

Project No: 4SAN030303

Project Address:

Fire Station 53 72734 Baker Blvd. Baker CA

3 Hutton Centre Drive

Suite 200 Santa Ana, CA 92707 (714) 751-7373 Fax(714) 545-8883





421 East Huntington Drive Monrovia, California 91016 P: 626.930.1383 F: 626.930.1385 Job No: 18035

No.	REVISION	DAT
	BID DRAWINGS	

CONCEPTUAL SITE LAYOUT PLAN

BAKER Fire Station 53

Revision Date:	
Scale:	1" = 40'
Drawn By:	
Reviewd By:	
Date:	12/18/19
Drawing Size:	24 x 36
	·

Drawing Number

E1.00 10 of 11 Sheets

