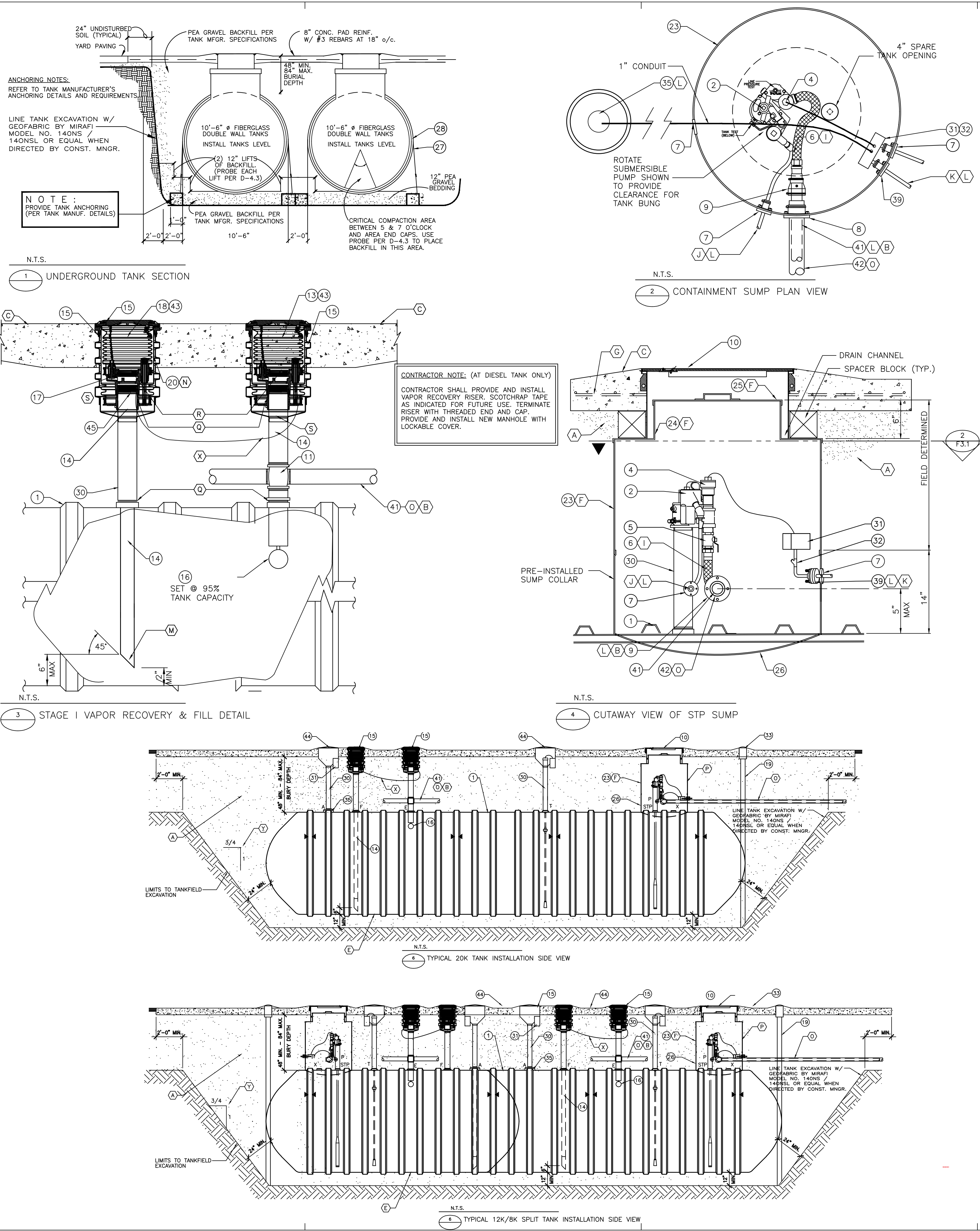


Circle K Southeast Prototype 4480 - 06/12/2013
Drawing Name: F:\2013\20130000\000 Construction Documents - Fuel Piping\Fuel-Store Plans - 1344444 and Addendum\20130000-F3.dwg, last modified: Dec 20, 2014 - 10:15am
Author: jw, Jan 20, 2015 - 1:59pm
by: awd



NO	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL	SUPPLIED BY	NOTES
1	UNDERGROUND STORAGE TANK - DBL. WALLED, DRY ANNULAR, AND (2) SUMPS PER TANK	CONTAINMENT SOLUTIONS	DOUBLEWALL 2 SUMP2 SIZE PER PLANS	OWNER	
2	2 HP SUBMERGED TURBINE PUMP-VARIABLE LENGTH	RED JACKET	2 HP FIXED	OWNER	
3	STP CONTROL BOX	RED JACKET	SMART PUMP CONTROLLER W/ DHI	OWNER	
4	PRESSURE LINE LEAK DETECTOR (PLLD)	VEEDER-ROOT	PLLD	OWNER	
5	2" BALL VALVE	AP	AP-94-A-2	OWNER	
6	FLEXING FLEX CONN. 2"x24" M&M SWIVEL END	FLEXING	FLX-224MMS	OWNER	
7	APT CONDUIT FITTING 1" 3/4"	APT	APT-FEB-075-D	OWNER	
8	APT 3" ENTRY BOOT	APT	APT-FEB-300-R	OWNER	
9	13" MONITOR WELL W/CAP AND 13" SLOTTED PVC	-	E814-4-K	CONT.	
10	BLUE LINE 3"x2" TEST BOOTS W/TEST PORT, ENTRY BOOT	BLUE LINE	-	OWNER	
11	FLEXING 42" RAIN TIGHT COMPOSITE MANHOLE WITH CAM LOCKS	FLEXING	FLX-14URT-4210CL	OWNER	
12	OPW EXTRACTOR VALVE 4X4X3X2 NO CAGE	OPW	OPW-233-4432	OWNER	
13	ADAPTER, VAPOR, SWIVEL, BRONZE	OPW	61VSA-EVR	OWNER	*
14	ADAPTER, VAPOR, TOP SEAL CAP	OPW	1711T-7085-EVR	OWNER	*
15	EBW 4"x15" DROP TUBE - 2 PACK	EBW	EBW-78220415-2	OWNER	*
16	DOUBLE WALL SPILL CONTAINER	OPW	EDGE IC-3112D	OWNER	
17	EBW 3"x21" BALL FLOAT	EBW	E30830021	OWNER	-
18	OPW SWIVEL FILL ADAPTER	OPW	OPW-61SALP-EVR	OWNER	*
19	APT 2" ENTRY BOOT	APT	APT-FEB-175-SC	OWNER	
20	ADAPTER, FILL, TOP SEAL CAP	OPW	634TT-7085-EVR	OWNER	*
21	15" MONITORING WELL WITH SLOTTED PVC (ONE EACH ON OPPOSITE CORNERS OF THE TANK HOLE)	-	E814-4-K	CONT.	-
22	FILL PIPE ID TAG, DIESEL	-	US-FP1-125D	OWNER	
23	FILL PIPE ID TAG, UNLEADED	-	US-FP1-125U	OWNER	
24	FILL PIPE ID TAG, PREMIUM GRADE	-	US-FP1-125P	OWNER	
25	VAPOR RECOVERY ID TAG	-	US-FP1-22	OWNER	
26	3M SCOTCHCRAP TAPE	3M	TYPE 51 20 MIL	CONT.	
27	16" TANK STICK (TO BE LEFT @ STORE)	BAGBY	BG1-16	OWNER	
28	42" DIA. FIBERGLASS CONTAINMENT SUMP	CONTAINMENT SOLUTIONS	-	OWNER	
29	42" DIA. FIBERGLASS SUMP CENTERED RISER-REDUCER TO 32"	CONTAINMENT SOLUTIONS	-	OWNER	
30	32" DIA. FIBERGLASS LID (26" WATERTIGHT OPTION)	CONTAINMENT SOLUTIONS	WATERTIGHT	OWNER	
31	42" DIA. ATTACHED FRP TANK COLLAR	CONTAINMENT SOLUTIONS	W/TANK	OWNER	
32	TURN BUCKLES & ANCHORS	-	-	CONT.	
33	HOLD DOWN STRAPS (10'-6" DIA. OR 8" DIA)	CONTAINMENT SOLUTIONS	(10' - 8" DIA)	OWNER	
34	NOT USED	-	-	OWNER	
35	4" GALV. RISER- LENGTH AS REQUIRED	TITEFLEX	110165-32-0180	CONT.	
36	JUNCTION BOX	CH	GUP215	CONT.	
37	SEAL OFF	CH	EYD2	CONT.	
38	4" PVC CAP (ONE EACH ON OPPOSITE CORNERS OF THE TANK HOLE)	-	-	CONT.	
39	3" DIA PLUG FOR EXTRACTOR CROSS	-	-	CONT.	
40	INTERSTITIAL PROBE	VEEDER ROOT	794390-409	OWNER	
41	NOT USED	-	-	-	
42	TANK PROBE	VEEDER ROOT	847390-109	OWNER	
43	4" PIPE CAP, ATG	VEEDER ROOT	330020-282	OWNER	
44	APT CONDUIT FITTING 1" 3/4"	APT	APT-FEB-075-D	OWNER	
45	APT 2" ENTRY BOOT	APT	APT-FEB-175-SC	OWNER	
46	2" FIBERGLASS PIPE (FRP)	AO SMITH RED THREAD	AMERON LCX	CONT.	
47	3" FIBERGLASS PIPE (FRP)	AO SMITH RED THREAD	AMERON LCX	CONT.	
48	4" TIGHT FILL CAP, "DURATUFF" (DIESEL TANK ONLY)	OPW	OP634TT-7085	OWNER	
49	18" ROUND WATER TIGHT MANHOLE BOLT DOWN	-	U-98-1810	OWNER	
50	JACK SCREW ASSEMBLY	OPW	61JSK-4400-EVR	OWNER	*
51	NOT USED	-	-	-	
52	NOT USED	-	-	-	

EQUIPMENT NOTE: * EQUIPMENT IDENTIFIED WITH AN ASTERISK ARE PART OF OPW PACKAGE ORDER # PK2-521-EVR.

REDUCER SHOWN IN OPEN POSITION.

2" FRP ADAPTER-BELL X NPT MALE

5 PRODUCT PIPING / SUMP PENETRATION

NOTES

A PEA GRAVEL BACKFILL. ALL OTHER MATERIAL MUST BE APPROVED BY TANK MANUFACTURER AND OWNER'S FIELD REPRESENTATIVE.

B FIBERGLASS PIPE AND FITTINGS TO BE AMERON OR A.O. SMITH RED THREAD 1/2" FITTINGS AND PIPING MAY NOT BE MIXED. USE ALCOHOL COMPATIBLE ADHESIVE.

C SLOPE CONCRETE AWAY FROM ALL MANHOLES 1" RISE OVER 12" RUN. EXCEPT WHERE INDICATED.

D DO NOT USE THREAD SEALANT ON THREADS COMMON TO CAGE AND BASE. WHEN INSTALLING CAGE INTO BASE, LUBRICATE THREADS WITH LIGHT COATING OF GREASE. DO NOT OVERTIGHTEN.

E TANK BOTTOMS SHALL BE INSTALLED LEVEL.

F INSTALL LID ONTO SUMP RISER AND SUMP RISER ONTO SUMP BASE USING ALL SUPPLIED GASKETS/ "O" RINGS, BOLTS, STEEL PLATES, ETC. PER SUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

G REINFORCE CONCRETE SLAB AROUND MANHOLE W/ 3-#4 REBAR 8' IN LENGTH 9" O.C.. PLACE REBAR 6" FROM SIDES OF BOX. MIN. 2" COVER.

H 8" THICK 3000 PSI CONCRETE SLAB REINFORCED W/ #3 REBAR @ 18" O.C. TANK SLAB TO EXTEND 2' PAST TANK HOLE IN ALL DIRECTIONS.

I MINIMUM BEND RADIUS 4".

J 1" CONDUIT FROM EACH SUBMERSIBLE PUMP TO BUILDING. TERMINATE WITH SEAL-OFF PER NFPA SPECIFICATIONS.

K 1" CONDUIT FOR CONTAINMENT SUMP SENSORS. LOOP CONDUIT BETWEEN CONTAINMENT SUMPS, THROUGH JUNCTION BOX. SEAL 1" HOME RUN AT BOTH 1ST TANK AND BUILDING. DO NOT PIPE INTO WIRING TROUGH.

L ALL PENETRATIONS MUST BE PERPENDICULAR TO CONTAINMENT SUMPS.

P INTERIOR OF FIBERGLASS CONTAINMENT SUMP TO BE CLEAR OF PEA GRAVEL, TRASH AND ANY LIQUID.

Q THOROUGHLY HAND CLEAN WITH WIRE BRUSH THE G.I. RISER SURFACE WITHIN 3" OF EXISTING TANK FITTING. ALL METALLIC COMPONENTS ABOVE TANK AND LOWER 1" OF SPILL CONTAINER. APPLY EPOXY PRIMER TO THESE AREAS. WRAP WITH 3M TAPE 20 MIL THICK.

R 4" G.I. NIPPLE, TIGHT FILL ADAPTER (OR STAGE I VR DRY BREAK) AND LOCKING CAP. MAINTAIN 1 1/2" TO 2" BETWEEN CAP AND OVERFILL COVER. USE STABILIZER BARS SUPPLIED WITH OVERFILL CONTAINER TO ESTABLISH CORRECT FINISHED ELEVATION.

S THE TORQUE RECOMMENDATION FOR TIGHTENING THE EMCO SPILL CONTAINERS TO THE RISER PIPES IS 250FT. LBS. MAXIMUM.

T 5 1/2" BELOW THE MANHOLE RIM ELEVATION.

U STAGE 1 VAPOR RECOVERY ADAPTOR FINISHED HEIGHT TO BE 3 1/2" TO 4 1/2" BELOW THE MANHOLE RIM ELEVATION.

V T&B" MODEL 3902 OR "O.Z./GEDNEY" MODEL G-100G 1/2"-1" HEAVY DUTY GROUNDING CLAMP OR OWNER APPROVED EQUAL.

W #5 REINFORCING STEEL BAR, MINIMUM 8' LONG PLACED HORIZONTALLY IN NATIVE SOIL. BAR IS TO BE AT 30" MINIMUM BELOW CONCRETE SLAB.

X #8 BRAIDED OR SOLID COPPER GROUNDING CONDUCTOR ROUTED IN SERIES BETWEEN BOTH SPILL CONTAINERS. CONNECT TO SPILL CONTAINERS AT GROUNDING STUDS PROVIDED. SECURELY CRIMP TO CONDUCTOR WITH "HYTOOL" NO. MR4C OR MY29. SPLICES ARE NOT PERMITTED BETWEEN GROUNDING STUDS AND/OR GROUNDING ROD.

Y SLOPE PER SOILS REPORT OR TANK MANUFACTURER INSTALLATION INSTRUCTIONS

Z COAXIAL PIPE MAY BE USED IN PLACE OF THE 2" X 3" CONFIGURATION WITH APPROVAL OF THE TOSCO CONSTRUCTION MANAGER. ONLY CLAMHELL TYPE FITTINGS MAY BE USED WITH COAXIAL PIPE.

GreenbergFarrow

1430 W. Peachtree St., Suite 200
Atlanta, GA 30309
t: 404 601 4000 f: 404 601 3980

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/19/15	PERMIT SET

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
ERIC WOLF

PROJECT MANAGER
ERIC WOLF

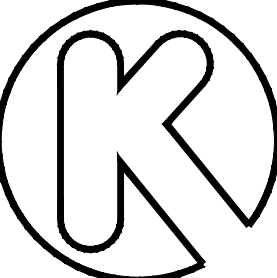
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ERIC WOLF

PROJECT NAME
CIRCLE K STORES, INC.

COLORADO SPRINGS COLORADO

E. FOUNTAIN BLVD & ACADEMY PARK LOOP



CIRCLE K STORES INC.

PROJECT NUMBER
20130780

SHEET TITLE

FUEL PIPING DETAILS

SHEET NUMBER
F3.1