CIRCLE K SOUTHWEST PROTOTYPE 4480 – 08/13/2013

Drawing Name: P:\2013\20130780\500 Construction Documents – Fuel Plans\Fuel-Gas Plans –Fountain and Academy\20130780-F.02.dwg Last Modified: Jan 20, 2015 – 1:47pm Plotted on: Jan 20, 2015 – 1:58pm by ewolf

7.0 Complete backfilling piping trenches and top of tanks to allow for an 8" thick concrete tank slab w/#3 rebar @ 18" OCEW and 6" thick yard/canopy paving ,3000 psi, with or without fiber mesh. Consult bid documents and Construction Manager. #3 rebar dowels at 18" O.C. shall be installed connecting new piping trench concrete with existing site paving or when replacing tanks at an existing site. Consult bid documents for non tank slab concrete strength.

8.0 (If required) Contractor to install 4" diameter .020 slotted PVC observation wells, only when required by state or local codes. Observation well caps to be painted white with a black triangle in the center. Existing monitoring or compliance wells should not be disturbed. In the event a well is damaged, immediately notify the Construction Manager. Any damaged wells will be replaced at the expense of the Contractor.

F. DISPENSERS

1.0 Contractor to provide storage for dispensers, hoses, nozzles and breakaways prior to installation and shall be responsible for any damage to equipment prior to job acceptance.

2.0 Dispensers shall be securely attached to anchor bolts which shall be set in concrete islands. Expansion bolts may be used with the written approval of the Construction Manager. Quantity and size of anchor bolts shall be as specified in dispenser manufacturer's installation instructions. The dispensers are to be installed level and are to be caulked with a gray silicone at island/dispenser interface.

3.0 Dispensers shall be activated only in presence of an authorized dispenser representative. Contractor has sole responsibility for damage to dispenser(s) if this instruction is not followed.

4.0 Purge the air from the piping system using industry standard practices and a grounded container approved for storage and handling Class I flammable liquids.

5.0 ELECTRICAL CHECKOUT:

5.1 Turn off ALL STP circuit breakers.

5.2 Confirm ALL nozzles are in their boots.

5.3 Verify ALL STP's are off.

5.4 Turn on circuit breaker for one STP. One hose at a time for product grade matching activated STP, perform the following at each dispenser.

5.4.1 Remove nozzle.

5.4.2 Activate operating handle and dispense product into an approved GROUNDED container.

5.4.3 Verify ONLY correct STP turns on.

5.4.4 Verify brand panels and octane decals on each side of dispenser matches product being dispensed by STP.

5.4.5 Verify correct nozzle type is installed, i.e. unleaded, diesel.

5.5 Repeat F5.4 – 5.4.5 for each product grade.

6.0 If misconnections or other problems are detected, make corrections and repeat entire dispenser check-out procedure.

7.0 Calibrate and seal meters per local regulations. Any re-calibration required to obtain approval from local regulators shall be contractor's responsibility.

8.0 Contractor to furnish and install new dispenser filters after completing all liquid testing and product line purging. Activate each product on each dispenser and inspect filter for leaks. Recheck primary line connections at dispenser base and STP for leaks.

9.0 Contractor shall perform start-up if approved by the dispenser/EPOS manufacturer. If Contractor is not approved by the dispenser/EPOS manufacturer, then an authorized Contractor shall be subcontracted to perform start-up. Contractor shall also provide an authorized service technician to provide up to 8 hours of on-site training for store personnel. Contractor is responsible for start-up and calibration of fueling systems. Cost must be included in Contractor's base bid.

10.0 Contractor shall provide and install pump #'s, octane decals, no smoking decals and emergency shut-off signs, per company image guidelines and all applicable codes and regulations. Contractor shall install all company provided decals, pump toppers and windshield caddies/trash cans prior to final project acceptance.

11.0 Contractor to furnish and install fire extinguishers and appropriate decals per applicable regulations.

G. TESTING

1.0 Contractor shall perform a pressure decay test on the tank annular space after paving is complete by pressurizing to 5 or 10 inches water column depending on state regulations from a GROUNDED nitrogen source. Pressure shall be applied for 5 minutes. ANY TANK WHICH DOES NOT HAVE "0" PRESSURE DECAY SHALL BE REJECTED. Contact tank manufacturer for repair. Construction Manager shall witness this test.

2.0 Tank, line, leak detector and Stage II testing shall be conducted by a third party testing company subcontracted to the contractor. Testing methods must be approved by the Construction Management and conform to all regulations and codes. Contractor shall schedule and coordinate the testing contractor along with any local inspections required to open the store. Contractor shall have a representative on-site during ALL testing. Construction Manager to witness all testing. Construction Manager shall verify operation of shear valves and ESO.

3.0 The company will only pay for one successful set of tank, line, leak detector and Stage II tests. Any costs associated with failed tests and subsequent repairs/re-tests will be the Contractor's responsibility. Contractor MUST USE AND PAY AN APPROVED TESTING COMPANY FOR ANY RE-TEST.

4.0 Contractor must obtain a copy of all test reports from testing company to be submitted with the project close out requirements of Section K.

5.0 Hydrostatic Test for STP Sump/Bravo Box/Spill Buckets: The Submersible Turbine Pump (STP) Sump, spill bucket, and the Dispenser Sump installation will be tested for water-tightness. This hydrostatic test will be done whether a jurisdictional hydrostatic test is requested by an oversight agency or not. The hydrostatic test can be done concurrently with the jurisdictional test, if one is required. The STP sump and spill bucket installation contractor is responsible for coordinating with the Construction Manager at least 24 hours prior to the anticipated hydrostatic test time. The dispenser sump installation contractor will be responsible for coordinating the dispenser sump hydrostatic test with the Construction Manager at least 24 hours prior to the anticipated test time.

Methodology For STP Sump Hydrostatic Test: After all piping and electrical penetrations have been sealed, and the STP sump installed and finished to the tank, the STP Sump installation contractor will introduce water into the STP sump 24-hours prior to the arrival of the Construction Manager. Water will be introduced into the STP sump past the highest penetration into the installed and finished sump. The water level should be stable at the tangent point on the top of the highest sump penetration. This tangent point will be the reference point for the Construction Manager's inspection, so it is important that the stable water level is precisely tangent to the top of the highest sump penetration. After water has remained in the STP Sump tangent to the top of the highest sump penetration, the Construction Manager will inspect the STP Sump for water leakage. The Construction Manager will inspect the bottom exterior of the sump for moisture collection, or to determine if leakage has occurred around the sump seal. The Construction Manager will inspect the water level to see if there is an observable subsidence of water from the top of the highest penetration. The Construction Manager will inspect to ensure that there is no observable subsidence from the tangent point of the highest sump penetration. The Construction Manager will inspect to ensure that there is no observable leakage on the exterior of any sump penetration, and to ensure that there should be no moisture collection or observable leakage around the exterior bottom of the installed and finished sump.

Methodology For Spill Bucket Hydrostatic Test: Following Installation of the spill buckets, a hydrostatic test will be conducted by the spill bucket installation contractor and witnessed by the the TMC Construction Manager. The Contractor is to plug the riser so that water can not leak into the riser. Water will be introduced into the spill bucket to the top of the bucket. The water level should remain at the top of the bucket for a period of one hour. The Construction Manager will inspect to ensure that there is no observable subsidence from the top of the bucket.

Methodology For Dispenser Sump Hydrostatic Test: In order to test the water tightness of the dispenser sumps a hydrostatic test will be conducted by the dispenser sump installation contractor and witnessed by the the TMC Construction Manager. After all piping and electrical penetrations have been sealed, and the dispenser sump has been fastened to the dispenser island or drive slab, the Dispenser Sump installation contractor will introduce water into the Dispenser Sump to within 3"or 4" of the top of the dispenser sump. This will ensure that there is an adequate hydraulic head on the sealed penetrations to test water tightness. The Dispenser Sump Installation contractor will coordinate with Construction Manager 24-hours prior to the anticipated sump test inspection time. The Construction Manager will physically inspect each (side or bottom) penetration to ensure that no moisture or leakage exists around the fittings. The Construction Manager will feel each piping and electrical penetration to ensure that no moisture or leakage exists around these penetrations.

6.0 Vapor Piping (Stage II) Slope (Fall) Verification Test: The piping Contractor will notify the Construction Manager at least 24 hours ahead of the anticipated test time. The verification of the 1/8" slope must be conducted with a standard calibrated 3' or 4' construction level. The test must be conducted when the piping backfill is nearly complete, and the tops of the vapor piping are still clear and accessible to the level. The Construction Manager will start from the furthest dispenser working back toward the tanks. The CM will lay the levels at various OR continuous points on the vapor piping, checking the level bubble for the 1/8" slope. The CM will move down the length of the Stage II Vapor Piping run, measuring the tops of the back-filled piping every four feet, or as necessary to insure a proper slope. The CM will briefly sketch an 'as-built' of the Vapor Piping run, noting all high and low spots in the piping run.

H. CONCRETE/ASPHALT PAVING

1.0 Concrete and asphalt paving shall be in accordance with company's paving specifications and details (PV-1), and section E-7.0.

I. CANOPY (if required)

1.0 The company will contract with others for Canopy fabrication and installation. Contractor is responsible for the following regarding the canopy: removal and disposal of old canopy, new canopy layout, (elevations and location), electrical conduit, circuits and all connections, canopy footings, j-bolts, canopy drain connections, column shroud installation (where required), painting, flood testing finished canopy, safety, and scheduling and coordinating canopy contractor's work with the project schedule.

2.0 Contractor is responsible for all inspections required for the canopy work.

3.0 Canopy drains shall be routed out the end of each island form on the down- gradient side using 3" diameter PVC pipe cut flush with island just above parking lot grade elevation. Silicon around drain to seal.

4.0 Contractor is responsible for flood testing the canopy once it is finished. Plug all canopy drains and flood canopy for 4 hrs. Mark leaking areas for repair by canopy fabricator. Construction Manager shall witness canopy flood test.

5.0 Contractor shall measure canopy clearance and provide and install canopy clearance decals at least 4" in height per company image guidelines. Confirm color and font style with the Construction Manager. Construction Manager shall confirm canopy clearance height.

6.0 Install and make operational the company provided 3M intercom system.

7.0 Islands to be independently set to result in an average of 6 inches of reveal with a minimum of 5 1/4" to a maximum of 10 1/2". (elevation above adjacent finished grade).

J. PAINTING

1.0 Contractor to paint all fill/Stage I manholes the colors indicated below. Contractor to use paint that is an oil based, rust free, enamel. All "+'s" are to be 2 inches wide. Contractor is to provide a stencil for all "+'s" on all fill lids. Lip under fill lid and 2" of concrete surrounding lid is to be painted appropriate colors.

- White w/Black + = Regular Unleaded
- Blue w/White + = Plus Unleaded
- Red w/White + = Supreme Unleaded
- Green = Diesel
- Orange = Stage I vapor

2.0 Tank level monitor manholes to be painted light gray, if applicable.

3.0 Contractor to paint all islands and bumpers, canopy columns, vent riser and supports and fire extinguisher cases.

4.0 Paint finish specifications: Paint bollards and island forms dark grey. Paint per brand requirement.

K. REQUIRED DOCUMENTATION

A project contact list with all General Contractor and Subcontractor contacts and phone numbers shall be submitted to Construction Manager, along with a CPM schedule prior to starting this project.

1.0 The following documentation is required prior to releasing the final 10%%% retainage on the project. THESE DOCUMENTS SHALL BE SUBMITTED IN A BOUND PROJECT CLOSE OUT FOLDER.

- Site information (address, site #, etc.)
- Project description with start and finish dates and CPM schedule
- G.C. information along with subcontractor list
- Job progress photos (see K-3.0)
- Daily job progress logs (New builds only)
- Xerxes installation checklist, including deflection readings
- Xerxes receiving record
- Underground tank installation checklist
- Piping manufacturer's installation checklist
- Copies of tank, line, and Stage II VR test results
- UST Information Sheet
- Copies of all permits and inspections
- Copy of certificate of occupancy (if required)
- Completed and signed punch list
- As-built drawings to scale depicting precise location of all components installed (including product/vapor line sizes and locations, conduit sizes, location and material, exact tank location and dimensions, etc.)
- Tank charts (Leave second copy at store)
- Final release of lien from Contractor and each subcontractor/supplier
- Copy of contract, change orders, and written approvals for deviations from these drawings.
- Copy of Signed Tank Disposal Certificate and ALL waste manifests.
- Compliance Information Form
- Tank Layout Form

2.0 Contractor shall maintain and turn over 2 copies of an indexed operation and maintenance manual, consisting of booklets for all newly installed equipment. Give one copy to Construction Manager and leave one at the store. Contractor shall leave tankcharts, tankstick, manway removal device, water finding paste, and all keys at the store.

3.0 Job progress photos – fuel system installation

At a minimum, the following photos are to be submitted on a 8 1/2" x 11" plastic sheet, labeled with scope of work, store # and address, in bound project close out folder as described in K-1.0, prior to release of retainage.

1. Photos of location prior to start of construction (minimum 4).
2. Each old tank and old tank hole.
3. Open tank hole.
4. Installation of new tanks including deadman and holddown straps. (1 during, 1 at finish).
5. Pea gravel backfill (includes tamping of pea gravel at 5:00 and 7:00 position). (3 photos)
6. Installation of product lines, vent lines and electrical in tank hole.
7. Installation of fill tubes and submersible pumps.
8. Backfilled tanks just before concrete pour, showing rebar.
9. Rebar properly installed around fill and Stage 1 manhole/Stp manhole.
10. Tank field ready to receive concrete (includes rebar on chairs or brick bats).
11. Depth of new concrete.
12. Tank field complete (includes joints, painted fill caps, and vent risers). (min. 2)
13. Open trenches.
14. Product piping in trenches (properly spaced).
15. Field dressed pipe.
16. Pea gravel backfill in trenches (show pea gravel under product lines).
17. Show installation of dispenser containment boxes.
18. Product pipe trenches ready to receive concrete (show rebar doweled into existing concrete).
19. Location of photo electric cell or contactor for canopy lights and signs.
20. Installation of new canopy footings.
21. Picture of finished canopy.
22. Pictures of location at the end of construction. (minimum 4)

L. Tank and Line Monitoring System

Tank and line monitor to be installed by Veeder Root TLS 350 Certified Technician. Installation to include: mounting controller near electrical panel, installing all tank level probes, sump probes, liquid level sensors (if required), all conduits and wiring, connecting all cables, and system start up. Contractor to include installation in base bid. Construction Manager shall verify that the Veeder Root system has been programmed correctly from VR printout.

M. ELECTRICAL

1.0 All electrical work to conform with local and national electrical codes at a minimum.

2.0 All wires must be continuous run (no splices) from dispenser to console terminal strip box.

3.0 All spare wires should be taped and looped at ends and labeled.

4.0 Submersible pump relays must be used if 1-1/2 HP pump motors are installed. If not supplied with submersible pump, consult the construction manager.

5.0 Terminate all conduits with appropriate seal-off fittings at each end.

6.0 All conduit and junction box conduit threaded connections inside sumps or dispenser pans/sumps shall be made with thread sealant per E-3.4. Bonding straps shall be installed where required by code.

7.0 Electrical unions and pull boxes are not permitted below the top of a dispenser pan/sump. Pull boxes are not permitted inside an STP sump. The only electrical union permitted inside an STP sump can only be installed between the explosion proof junction box and the STP. Seal-offs and explosion proof junction box shall be be installed wherever shown in these drawings.

8.0 Conduit system (i.e. conduit, seal-offs, explosion proof junction boxes) inside STP sumps and dispenser pans/sumps shall be soap tested to first conduit connection outside STP sump or dispenser pan/sump at 5 psi after all connections are made and prior to installing wiring. Construction manager shall witness these soap tests.

9.0 An explosion proof junction box where shown (Crouse-Hinds Model GUP215 with S302 "O"-Ring, or owner approved equal) shall be installed per NEC Sections 501 and 514, NFPA 30, 30A and 70. Conduit shall be 1" or 3/4" Dia. galvanized rigid or 3/4" schedule 40 conduit where permitted by code. All monitoring and MPD control wiring must be installed in rigid metallic PVC coated conduit.

10.0 Contractor to install an emergency shut-off switch on the front of the building near the sales area. Shut-off switch and electrical material required to make the switch operational shall be furnished by the contractor (including emergency shut-off sign). Placement of emergency shut off switch(es) and proximity to the dispensers must be in accordance with all applicable codes and regulations. More than one might be required. Consult bid documents and CIRCLE K construction manager for quantity and location of emergency shut-off switch(es).

11.0 Contractor shall furnish all new conduits, wiring and seal offs for dispensers, STPs and monitoring equipment per these drawings. Each STP and dispenser shall have its own circuit breaker.

12.0 All exposed conduits and gutter boxes shall be painted by contractor to match existing colors.

13.0 Contractor to seal all conduit builiding penetrations and clear outs.

14.0 Contractor shall type and laminate the breaker panel labels. Contractor shall label all STP control boxes.

15.0 Contractor shall furnish and install a new 100A electrical "fuel system" sub-panel and ensure that the stores electrical system is properly balanced for existing stores.

16.0 Gilbarco STP Isolation Relay Boxes must be installed for each dispenser. If not supplied with dispenser, consult CIRCLE K construction manager.

FOR BID ONLY

IT IS THE RESPONSIBILITY OF THE TANK CONTRACTOR TO APPLY FOR AND OBTAIN A TANK INSTALLATION PERMIT FROM THE CSFD OFFICE OF THE FIRE MARSHAL, 375 PRINTERS PARKWAY.

THE TANK INSTALLATION CONTRACTOR IS REQUIRED TO SUBMIT FOR AND RECEIVE A SEPARATE PERMIT FOR THE INSTALLATION OF ANY NEW VESSEL IN EXCESS OF 60 GALLONS THAT CONTAINS HAZARDOUS MATERIALS. THIS PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION. THE TANK MAY NOT BE FILLED UNTIL AFTER INSPECTION. APPLICATION FOR TANK PERMITS CAN BE OBTAINED FROM THE CSFD OFFICE OF THE FIRE MARSHAL, 375 PRINTERS PARKWAY.

SUBMITTALS FOR NEW TANK PERMITS SHALL INCLUDE, BUT NOT LIMITED TO FULL SIZE SET OF PLANS AND ONE QUARTER SIZE SET OF STAMPED PLANS. DIMENSIONED SITE PLAN THAT SHOWS THE LOCATION OF THE TANK, A DECLARATION OF SIZE/CONTENTS, MANUFACTURER'S CUT SHEETS THAT SHOW THE CONSTRUCTION /MATERIALS THAT THE TANK IS MADE OF AND THE METHOD/AVAILABLE VOLUME OF SECONDARY CONTAINMENT IN ACCORD WITH CHAPTER 27 OF THE 2003 INTERNATIONAL FIRE CODE. VEHICULAR PROTECTION, IF REQUIRED, SHALL ALSO BE SHOWN AND DESCRIBED ON THE SITE PLAN. PLANS SHALL SHOW ALL PIPING SYSTEMS, VALVES, COMPONENTS, EQUIPMENT AND VENT SYSTEMS.

IFC 2009, AS AMENDED
AUTOMOTIVE MOTOR FUEL-DISPENSING FACILITIES, MARINE MOTOR FUEL-DISPENSING FACILITIES, FLEET VEHICLE MOTOR FUEL-DISPENSING FACILITIES, AIRCRAFT MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES SHALL BE IN ACCORDANCE WITH IFC 2009 AS AMENDED CHAPTER-22 AND THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FULE GAS CODE AND INTERNATIONAL MECHANICAL CODE.

INSTALL TANK PER MANUFACTURER'S SPECIFICATIONS AND IFC 2009, AS AMENDED CHAPTERS 22 AND 34.
UNDERGROUND TANKS FOR THE STORAGE OF CLASS-I, II AND IIIA LIQUID FUELS SHALL COMPLY WITH CHAPTER 34, IFC 2009.

EMERGENCY DISCONNECT:
APPROVED, CLEARLY IDENTIFIED AND READILY ACCESSIBLE EMERGENCY DISCONNECT SWITCHES SHAKK BE PROVIDED AT APPROVED LOCATIONS TO STOP THE TRANSFER OF FUEL TO FUEL DISPENSERS IN THE EVENT OF A FULE SPILL OR OTHER EMERGENCY. TWO EMERGENCY DISCONNECT SWITCHES FOR EXTERIOR FUEL DISPENSERS SHALL BE REQUIRED AS FOLLOWS:
1. EXTERIOR: SHALL BE LOCATED WITHIN 100' OF NOT LESS THAN 20' FROM THE FUEL DISPENSERS. PROVIDE A MUSHROOM STYLE SWITCH THAT IS READILY ACCESSIBLE AND MUST CUT OFF POWER TO ALL DISPENSERS AND PUMPS.
2. INTERIOR: SHALL BE LOCATED AT THE ATTENDANT DUTY STATION. PROVIDE A PALM-TYPE SWITCH BUTTON WHICH WILL SHUT OFF THE FLOW OF FUEL AND CUT OFF POWER TO TO ALL DISPENSERS AND PUMPS.
3. EMERGENCY DISCONNECT SWITCHES SHALL SHUT-OFF THE POWER IN CONFORMANCE WITH THE NATIONAL ELECTRIC CODE (NFPA-70) AND NFPA-30A.
4. EMERGENCY CONTROLS SHALL BE OF A TYPE WHICH IS ONLY MANUALLY RESETTABLE.

FOR INTERIOR FUEL-DISPENSING OPERATIONS, THE EMERGENCY DISCONNECT SWITCH SHALL BE INSTALLED AT AN APPROVED LOCATION.

SIGNS SHALL BE PROVIDED IN APPROVED LOCATIONS AND OF THE LEGIBLE SIZE:
1. INTERIOR: AT LEAST 1" IN HEIGHT AND 1/8" STROKE RED ON WHITE BACKGROUND.
2. EXTERIOR: AT LEAST 2" IN HEIGHT AND 1/4" STROKE RED ON WHITE BACKGROUND.

ANNUAL HAZARDOUS MATERIALS OPERATIONAL PERMIT:
1. THIS FACILITY IS REQUIRED TO APPLY FOR THE ANNUAL HAZARDOUS MATERIAL OPERATIONAL PERMIT FOR FLAMMABLE & COMBUSTIBLE LIQUIDS AND MOTOR FUEL DISPENSING.
2. THIS FACILITY IS REQUIRED TO HAVE A CONSTRUCTION HAZMAT INSPECTION FOR CO2 AND UST DISPENSING FUEL STATION.
3. TO SCHEDULE THE HAZARDOUS MATERIAL CONSTRUCTION INSPECTION, PLEASE CONTACT THE DIVISION OF THE FIRE MARSHAL @ 719-385-5978.
4. FOR FURTHER QUESTIONS OR INFORMATION PLEASE CONTACT THE DIVISION OF THE FIRE MARSHAL MAIN NUMBER AT 719-385-5978.

CO2, REFRIGERATION, LIQUID PETROLEUM GAS AND OTHER LABELING AND MARKING:
1. STATIONARY COMPRESSED GAS CONTAINERS, CYLINDERS AND TANKS SHALL BE MARKED WITH THE NAME OF THE GAS MARKINGS SHALL BE VISIBLE FROM ANY DIRECTION OF APPROACH.
2. PORTABLE COMPRESSED GAS CONTAINERS, CYLINDERS AND TANKS SHALL BE MARKED IN ACCORDANCE WITH CGA C-7.
3. PIPING SYSTEMS SHALL BE MARKED IN ACCORDANCE WITH ANSI A13.1.
4. MARKINGS USED FOR PIPING SYSTEMS SHALL CONSIST OF THE CONTENT#S NAME AND INCLUDE A DIRECTION-OF-FLOW ARROW.
5. MARKINGS SHALL BE PROVIDED AT EACH VALVE; AT WALL, FLOOR OR CEILING PENETRATIONS; AT EACH CHANGE OF DIRECTION; AND AT A MINIMUM OF EVERY 20 FEET OR FRACTION THEREOF THROUGHOUT THE PIPING RUN.
6. SIGNS CLEARLY ESTABLISHING THE LOCATION AND IDENTITY OF SHUT-OFF VALVES ARE TO BE PROVIDED.
7. ALL INERT PIPING SYSTEMS SHALL BE IDENTIFIED BY APPROPRIATE LABELING WITH THE NAME OF THE GAS.
8. WARNING SIGNS SHALL BE POSTED AT EACH ENTRANCE TO THE ROOM OR ENCLOSURE WHERE THE BULK INERT GAS SYSTEM IS INSTALLED.
WORDING SHALL INCLUDE: WARNING ---(NAME OF GAS) HIGH CONCENTRATION OF GAS MAY OCCUR IN THIS AREA AND MAY CAUSE ASPHYXIATION. VERIFY THAT OXYGEN CONCENTRATION IS ABOVE 19.5% BEFORE ENTERING AND DURING ACTIVITY IN THIS AREA.
9. LABELING – AN NFPA 704 COMPLIANT HAZARD PLACARD IS REQUIRED FOR EACH PEDESTRIAN ENTRY DOOR ROOMS CONTAINING HAZARDOUS MATERIALS IN EXCESS OF THE EXEMPT AMOUNTS (THIS DOOR COULD BE INTERIOR OR EXTERIOR) AND ALL SUCH DOORS SHALL BE INCLUDED. THE MINIMUM SIZE OF THE HAZARD PLACARD SHALL BE 15" BY 15". THIS REQUIREMENT IS SUBJECT TO VERIFICATION AT THE TIME OF THE HAZARDOUS MATERIALS INSPECTION PRIOR TO SIGNING THE FIRE FINAL.

REFRIGERATION PIPING:
PIPING SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.
SIGNAGE SHALL BE PROVIDED FOR PIPING AND HOSE SYSTEMS AS FOLLOWS:
1. ABOVE-GROUND PIPING SYSTEMS SHALL BE MARKED IN ACCORDANCE WITH ANSI A13.1.
2. STATION OUTLETS SHALL BE MARKED TO INDICATE THEIR INTENDED USAGE.
3. SIGNS SHALL BE POSTED, INDICATING CLEARLY THE LOCATION AND IDENTITY OF SECTION SHUTOFF VALVES.

LIQUIFIED PETROLEUM GAS (LPG):
CSFD ADMINISTRATIVE RULING 2011-002:
REQUIRED OPERATIONAL PERMITS 105.6.27, REQUIRED CONSTRUCTION PERMITS 105.7.10, AND PERMITS 3801.2 OF THE IFC 2009, AS AMENDED. PERMITS SHALL BE REQUIRED AS SET FORTH IN SECTIONS 105.6.27 AND 105.7.10.
A PERMIT IS REQUIRED TO INSTALL ONE OR MORE LP-GAS CABINETS ASSOCIATED WITH A CYLINDER EXCHANGE PROGRAM. THIS SHALL INCLUDE ALL OCCUPANCIES WHERE LP-GAS IS STORED, USED OR HANDLED AS PART OF A CYLINDER EXCHANGE PROGRAM. CONTAINERS THAT ARE FILLED, PARTIALLY FILLED OR EMPTY SHALL BE CONSIDERED AS FULL CONTAINERS.
LPG PERMIT WAS NOT PART OF THIS HAZARDOUS MATERIALS PLAN REVIEW AT THIS TIME.
VENDOR/CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR ALL REQUIRED PERMITS.

FIRE EXTINGUISHERS:
1. 2-A:20-B:C LOCATED NOT MORE THAN 75 FEET FROM PUMPS, DISPENSERS OR STORAGE TANK FILL-PIPE OPENINGS.
2. WARNING SIGNS WARNING SIGNS IN THE FUEL-DISPENSING AREA:
A. IT IS ILLEGAL AND DANGEROUS TO FILL UNAPPROVED CONTAINERS WITH FUEL.
B. SMOKING IS PROHIBITED.
C. THE ENGINE SHALL BE SHUT OFF DURING THE REFUELING PROCESS.
D. PORTABLE CONTAINERS SHALL NOT BE FILLED WHILE LOCATED INSIDE THE TRUNK, PASSENGER COMPARTMENT, OR TRUCK BED OF A VEHICLE.

CONTRACTOR & FIRE INSPECTOR:
PRIOR TO SCHEDULING THE FIRE FINAL PLEASE CONTACT THE HAZARDOUS MATERIALS INSPECTOR TO ARRANGE A HAZARDOUS MATERIALS INSPECTION PRIOR TO FINAL SIGNATURE BEING PROVIDED.
CONTACT THE DIVISION OF THE FIRE MARSHAL @ 719-385-7356

EQUIPMENT, MACHINERY, AND REQUIRED DETECTION AND ALARM SYSTEMS ASSOCIATED WITH THE USE, STORAGE, OR HANDLING OF HAZARDOUS MATERIALS SHALL BE LISTED OR APPROVED. THIS REQUIREMENT IS SUBJECT TO VERIFICATION AT THE TIME OF THE HAZARDOUS MATERIALS INSPECTION PRIOR TO SIGNING THE FIRE FINAL.

OPERATOR CERTIFICATION POSSESS A MINIMUM, COLORADO OIL AND PUBLIC SAFETY (OPS) CLASS C OPERATOR CERTIFICATION. RECORDS SHALL BE KEPT AT THE PREMISES OR MADE AVAILABLE FOR INSPECTION BY THE FIRE CODE OFFICIAL WITHIN 24 HOURS OF A WRITTEN OR VERBAL REQUEST.

MSDS (407.2 MATERIAL SAFETY DATA SHEETS):
1. MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL HAZARDOUS MATERIALS SHALL BE EITHER READILY AVAILABLE ON THE PREMISES AS A PAPER COPY, OR WHERE APPROVED, SHALL BE PERMITTED TO BE READI-LY RETRIEVABLE BY ELECTRONIC ACCESS.
2. APPROVED ELECTRONIC ACCESS SHALL BE AS FOLLOWS:
A. MEDIA SHALL BE USB FLASH DRIVE.
B. FORMAT SHALL BE MICROSOFT WORD 2000 OR NEWER DOCU-MENT, PDF, OR OTHER APPROVED FORMAT.
3. WHERE A KNOX BOX IS LOCATED AT A FACILITY, ONE USB DE-VICE SHALL BE STORED IN THE KNOX BOX AND ONE DEVICE SHALL BE LOCATED IN AN APPROVED LOCATION(S). ALL DEVICES AND CONTENT SHALL BE MAINTAINED.

THIS UF REVIEW AT THIS TIME DOES NOT INCLUDE THE UST INSTALLATION PLAN REVIEW. NO INFORMATION WAS SUBMITTED WITH THIS PLAN SET.
A FULL SIZE AND REDUCED SIZE VERSION OF THE TANK PLANS AND ISLANDS IS REQUIRED TO BE SUBMITTED TO THE DFM @ 375 PRINTERS PARKWAY, ATTENTION TO KAY YEAGER WITH ALL TANK PERMIT APPLICATION FORMS COMPLETED.
THE STATE OF COLORADO PERMITS THE INSTALLATION OF USTs/ASTs: WHEN SUBMITTING THE UST INSTALLATION PERMIT AND PLANS TO THE COLORADO SPRINGS FIRE DEPARTMENT, FOR THE TWO USTs, PLEASE PROVIDE COPIES OF ALL PERMIT AND PLAN DOCUMENTS SUBMITTED TO THE COLORADO DIVISION OF LABOR AND EMPLOYMENT, OIL & SAFETY.

GreenbergFarrow
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Atlanta, GA 30309
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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

QUALITY CONTROL
ERIC WOLF

DRAWN BY
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 SYSTEM SPECIFICATIONS

SHEET NUMBER

F0.2