

NEW UST SYSTEMS SITE LAYOUT/ROADS AS REQUIRED BY NCDEQ DWM UST SECTION for PRE INSTALLATION UST ENVIRONMENTAL PERMITS

FACILITY: CHAMPS
8920 US-401 N; Fuquay-Varina, NC 27526
Harnett Co; UST Permit #TBD

BY: TIM LAUGHLIN P.E. #022012
NCPDM; 7300 GLENWOOD AVE.
RALEIGH, NC 27612; NCBELS #F-1001
Ph: 919-782-4411

DATE: 01/08/2024
SCALE: GRAPHIC AS SHOWN
REVISION #1:
PRINT #1/5



Not a Certified Document as to the Original Document but Only as to the Revisions (in red box/cloud) - This document originally issued and sealed by JOHNNY GLENN TEW, P.E. #014580 on 11/10/2022. This document is only certified as to the revisions".

ECLS
GLOBAL
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
ECLSGLOBALINC.COM
910.897.3329 FAX 910.504.1778

REVISIONS:

07/28/2022	ISSUE FOR PERMIT
08/22/2022	REVISION: PER NCDEQ COMMENTS
09/22/2022	REVISION: PER NCDEQ COMMENTS
11/10/2022	REVISION: PER NCDEQ COMMENTS

CHAMPS CONVENIENCE STORE

JAY AMBE SHAKTI, LLC

U.S. 401 N FUQUAY-VARINA, NC 27526
HARNETT COUNTY, NC
D.B. #010654-51-8196.000

**GRADING, DRAINAGE,
EROSION CONTROL &
LANE WIDENING
NEW CONSTRUCTION PLAN**

PROJECT: 21-075

SURVEYED BY: ARB

DRAWN BY: LLL

CHECK BY: JGT

SCALE: 1"=20'

DATE: 06/10/2022

ECLS

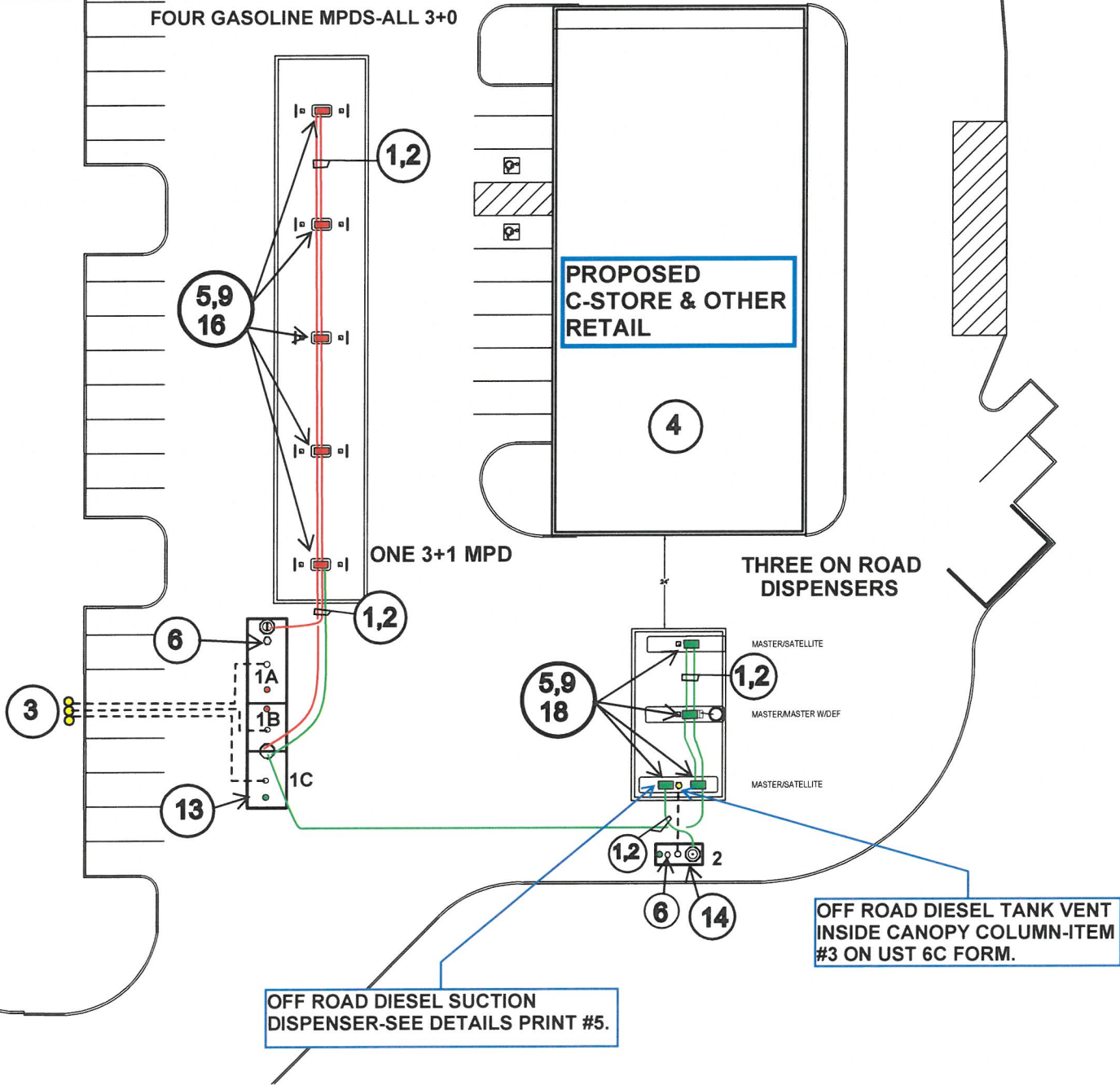
Tanks and all related petroleum systems shall be installed in accordance with all requirements of North Carolina State Building/Electrical/Fire Code (Latest Editions), specifically Chapter 23 "MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES"; Chapter 57 "Flammable and Combustible Liquids" & Chapter 50 "Hazardous Materials-General Provisions". As a reference under the NC Fire Code, the National Fire Protection Association (NFPA) Pamphlet 30-A "Code for Motor Fuel Dispensing Facilities and Repair Garages", & Pamphlet 30 "Code for Flammable and Combustible Liquids", (Latest Editions), may also be used. Other industry standards adopted by NC include the Petroleum Equipment Institute (PEI) and the American Petroleum Institute (API) UST Standards. Specifically, the Petroleum Equipment Institutes (PEI) RP100: "INSTALLATION OF UNDERGROUND LIQUID STORAGE SYSTEMS" & API RP 1615, "INSTALLATION OF UNDERGROUND PETROLEUM STORAGE SYSTEMS" (Latest Editions). All petroleum equip. must be installed in accordance with manufactures requirements. All Environmental Regulations in Accordance with NCDEQ DWM UST Title 15A Subchapter 2N Sections .0100 thru .0900 Criteria and Standards Applicable to Underground Storage Tanks (RE US EPA 40 CFR Parts 280 & 281). MUST COMPLY WITH ALL STATE & LOCAL OSHA & AIR QUALITY REGULATIONS. EXISTING UNDERGROUND/ABOVEGROUND SYSTEM/EQUIP. TO BE REMOVED IN ACCORDANCE WITH ALL REGULATIONS. LOCATIONS HAVE NOT BEEN VERIFIED BY THIS ENGINEER. THIS ENGINEER ASSUMES NO LIABILITY FOR LOCATION OF UNDERGROUND STRUCTURES/SYSTEMS or NO LIABILITY FOR JOB SITE SAFETY. Engineering certification for NCDEQ DWM UST FORMS 6A & 6C Permits only. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS & METHODS. DISCLAIMER: THE INFORMATION ON THIS PAGE IS NOT TO BE CONSTRUED OR USED AS A SURVEY. ONLY A LICENSED LAND SURVEYOR (RLS) CAN LEGALLY DETERMINE PRECISE LOCATIONS, ELEVATIONS, LENGTH & DIRECTION OF A LINE & AREAS. Some items such as vents/piping/equip. diameters are not to scale.

ORIGINAL PRINT BY:
SOURCE FUELING EQUIPMENT
SOLUTIONS/DESIGN GROUP
510 S. Westgate; Addison, IL 60101
PHONE: 847-364-1744
PROPOSED LAYOUT PLAN
DATED 06/20/2022

SEE NCDEQ DWM UST FORM #6C
FOR PETROLEUM EQUIPMENT LIST.

GASOLINE/DIESEL CANOPY DESIGNED BY OTHERS.
SEE PRINT #1 FOR SITE LAYOUT, C-STORE BLDG.,
PROPERTY LINES & NEAREST ROADS.

TANKS #1B & #1C SHARE TANK SUMP.
PIPING TEE IN TANK #1C DIESEL.



CHALYBEATE SPRINGS ROAD

NO MONITORING WELLS REPORTED. NO WATER SUPPLY WELLS
USED FOR HUMAN CONSUMPTION REPORTED WITHIN 500 FEET OF
PROPOSED LOCATION OF NEW UST COMPONENTS.

TANKS	TANK TYPE	TANK SIZE	PRODUCT STORED
1A	GLASTEEL II	16,000 gals.	GASOLINE
1B	GLASTEEL II	6,000 gals.	GASOLINE
1C	GLASTEEL II	8,000 gals.	DIESEL
2	GLASTEEL II	2,000 gals.	OFF ROAD DIESEL

THIS PRINT IS FOR TANKS, PIPING, UDCS, VENTS, & LEAK DETECTION
SENSORS/CONSOLE. SEE PRINTS #3 & #4 FOR TANK EQUIPMENT.

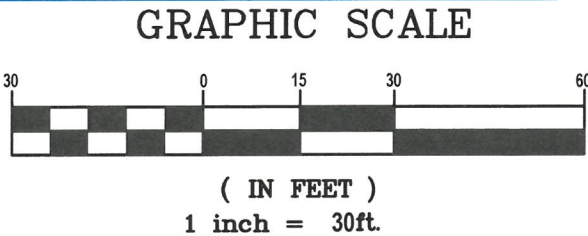
DIESEL EXHAUST FLUID (DEF) NOTES: DEF is exempted under US EPA's SPCC program, aqueous urea is not a "petroleum" substance/oil. DEF is not regulated under NCDEQ DWM UST & US EPA UST Regulations and therefore is not regulated as a petroleum product. By itself, aqueous urea also falls outside of EPA's definition of a "hazardous substance."
Current DEF formulations are a nontoxic, colorless, and nearly odorless mixture of 32.5 percent chemical urea and 67.5 percent deionized water.
DEF is not a fuel; it also is neither flammable nor combustible & is not regulated by NC Fire Codes.



PUBLIC UST FACILITY
FACILITY: CHAMPS
8920 US-401 N; Fuquay-Varina, NC 27526
Harnett Co; UST Permit #TBD

BY: TIM LAUGHLIN P.E. #022012
NCPCM; 7300 GLENWOOD AVE.
RALEIGH, NC 27612; NCBELS #F-1001
Ph: 919-782-4411

DATE: 01/08/2024
SCALE: 1 INCH = 30.0 FEET
REVISION #1: 1/8/24-ADD DIESEL TO 3+1
MPD.
PRINT #2/5

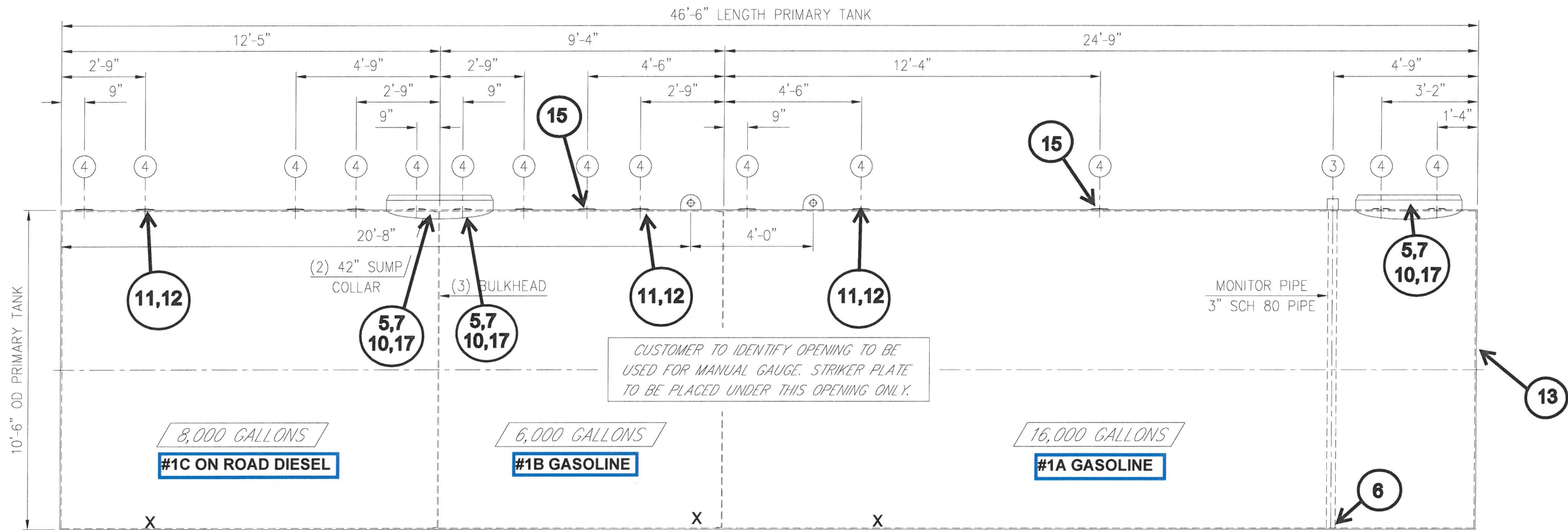


THIS PRINT IS FOR TANKS #1A, #1B & #1C TANK EQUIPMENT ONLY. FOR PIPING, UDCS, VENTS, & LEAK DETECTION CONSOLE/SENSORS. SEE PRINT #1 & # 2.

TANKS #1B & #1C SHARE TANK SUMP. PIPING TEE IN DIESEL SUMP.

Underwriters Laboratories Construction, UL-58, UL-1746 Part III

TANK METHOD USED TO ANCHOR TANKS IN GROUND: TANK OVERBURDEN SLAB AND/OR ANCHORS PER PEI RP-100. Per Tank Manufacture Requirements (By Others).



30,000 Gallon Three-Compartment GLASTEEL II Tank Split 16/6/8
EST. EMPTY WEIGHT - 27,560 LBS

modern welding company
of georgia, inc.
P.O. Box 10067 • 300 Prep Phillips Drive • Augusta, Georgia 30903 • (706) 722-3411



PUBLIC UST FACILITY
FACILITY: CHAMPS
8920 US-401 N.
Fuquay-Varina, NC 27526
Harnett Co; UST Permit #TBD

BY: TIM LAUGHLIN P.E. #022012
NCPCM; 7300 GLENWOOD AVE.
RALEIGH, NC 27612;
NCBELS #F-1001
Ph: 919-782-4411

DATE: 01/08/2024
SCALE: DIMENSIONS
REVISION #1:
PRINT #3/5

Approved 12-19-2023

CUSTOMER ACTION SIGNATURE BLOCK
APPROVAL DRAWING

☐ APPROVED AS IS PROCEED WITH FABRICATION
☐ APPROVED AS NOTED. REVISE & PROCEED w/FAB
☐ NOT APPROVED RESUBMIT w/CHGS FOR APPROVAL

AGENT/ENGINEER: _____
DATE: _____
CUSTOMER: _____



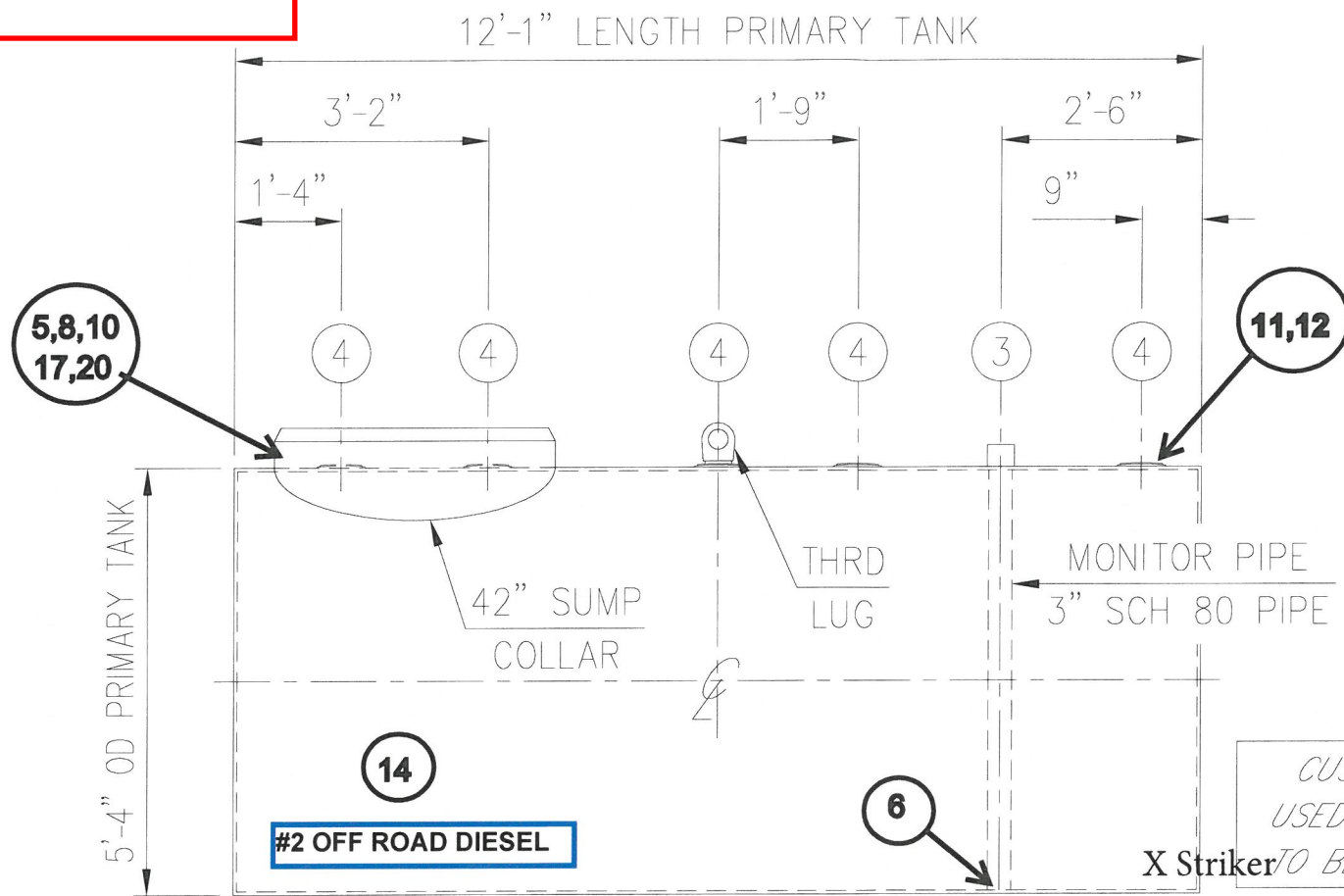
CONTRACTOR RESPONSIBLE FOR CORRECT PLACEMENT OF TANK OPENINGS & EQUIPMENT

ENGINEERING CERTIFICATION ONLY
FOR NCDEQ DWM UST PERMITS.

THIS PRINT IS FOR TANK #2 TANK EQUIPMENT ONLY. FOR PIPING, UDCS, VENTS, & LEAK DETECTION CONSOLE/SENSORS. SEE PRINT #1 & # 2. SEE PRINT #5 FOR SUCTION PIPING DETAIL.

Underwriters Laboratories Construction, UL-58, UL-1746
Part III

TANK METHOD USED TO ANCHOR TANKS IN GROUND:
TANK OVERBURDEN SLAB AND/OR ANCHORS PER PEI
RP-100. Per Tank Manufacture Requirements (By Others).



PUBLIC UST FACILITY
FACILITY: CHAMPS
8920 US-401 N.
Fuquay-Varina, NC 27526
Harnett Co; UST Permit #TBD

BY: TIM LAUGHLIN P.E. #022012
NCPCM; 7300 GLENWOOD AVE.
RALEIGH, NC 27612;
NCBELS #F-1001
Ph: 919-782-4411

DATE: 01/08/2024
SCALE: DIMENSIONS
REVISION #1:
PRINT #4/5

2,000 Gallon GLASTEEL II Tank

EST. EMPTY WEIGHT - 2.500 LBS

modern welding company
of georgia, inc.

P.O. Box 10067 • 300 Prep Phillips Drive • Augusta, Georgia 30903 • (706) 722-3411



Tim Laughlin

Approved 12-19-2023

CUSTOMER ACTION SIGNATURE BLOCK
APPROVAL DRAWING

☐ APPROVED AS IS PROCEED WITH FABRICATION
☐ APPROVED AS NOTED. REVISE & PROCEED w/FAB
☐ NOT APPROVED RESUBMIT w/CHGS FOR APPROVAL

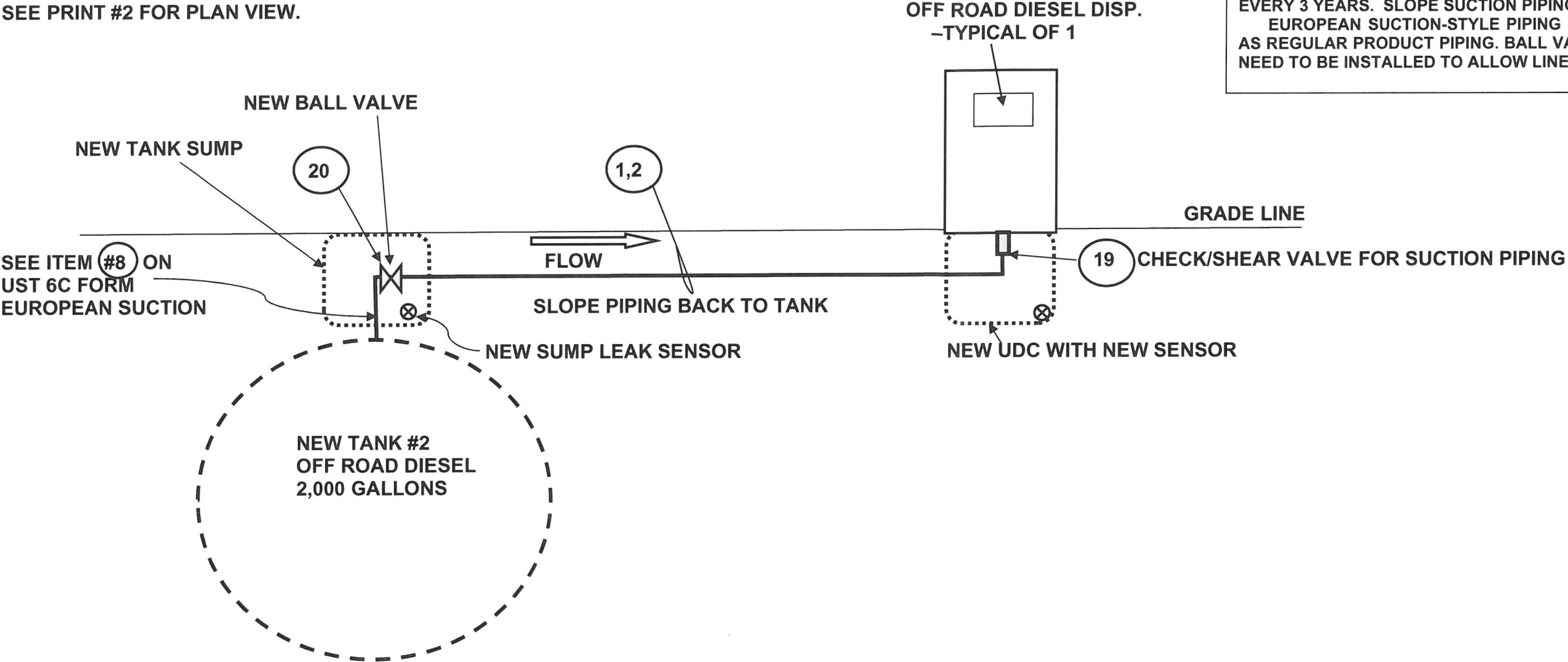
AGENT/ENGINEER: _____
DATE: _____
CUSTOMER: _____



CONTRACTOR RESPONSIBLE FOR CORRECT PLACEMENT OF TANK OPENINGS & EQUIPMENT

ENGINEERING CERTIFICATION ONLY
FOR NCDEQ DWM UST PERMITS.

SEE PRINT #2 FOR PLAN VIEW.



GENERAL NOTES: EUROPEAN SUCTION PIPING INSTALLED AFTER 11/01/2007.
PIPING LEAK DETECTION FOR ALL TANKS: SUCTION SYSTEMS ARE REQUIRED TO HAVE LEAK DETECTION/PIPE TESTING. EUROPEAN SUCTION-TEST PIPE EVERY 3 YEARS. SLOPE SUCTION PIPING BACK TO TANK.
EUROPEAN SUCTION-STYLE PIPING MUST MEET THE SAME REQUIREMENTS AS REGULAR PRODUCT PIPING. BALL VALVES OR OTHER MEANS OF ISOLATION NEED TO BE INSTALLED TO ALLOW LINE TIGHTNESS TESTS TO BE CONDUCTED.

EUROPEAN SUCTION PIPING/SUMP DETAILS

(NO SCALE)
ALL VALVES, TEST PORTS/BOOTS, UNIONS, FITTING, ADAPTERS & ANY OTHER COMPONENTS SHALL BE ADDED AS NEEDED TO PROVIDE FOR COMPLIANCE WITH ALL REGULATIONS



UNDERGROUND PUBLIC MOTOR FUEL FACILITY
FACILITY: CHAMPS
8920 US-401 N; Fuquay-Varina, NC 27526
Harnett Co; UST Permit #TBD

ENGINEER: Timothy Laughlin, P.E.
NCPCM; 7300 Glenwood Ave; Raleigh, NC 27612
Ph: 919-782-4411; NC BELS #F-1001

DATE: 01/08/24
SCALE: NA
Revision #1
Print #5/5