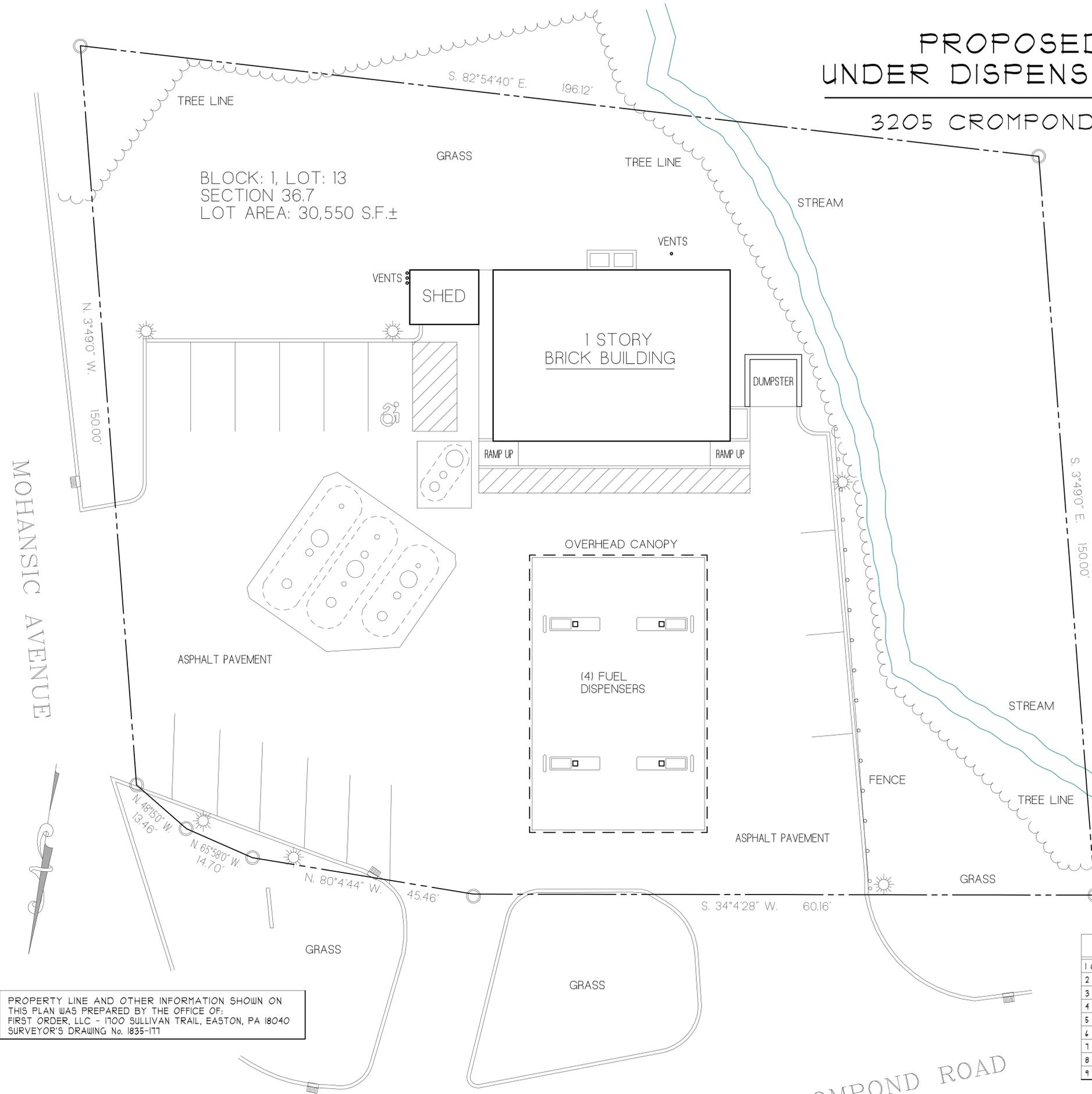


# PROPOSED UNDER STORAGE TANK & UNDER DISPENSER CONTAINMENT REPLACEMENT

3205 CROMPOND ROAD, YORKTOWN HEIGHTS, NY 10598



**DESIGN CODES**

PROPOSED WORK SHALL BE IN COMPLIANCE WITH THE ADOPTED CODES IN THE STATE OF NY

**STATE BUILDING CODES:**

- > 2021 INTERNATIONAL BUILDING CODE AS AMENDED.
- > 2021 INTERNATIONAL PLUMBING CODE AS AMENDED.
- > 2021 INTERNATIONAL MECHANICAL CODE AS AMENDED.
- > 2021 NFPA NATIONAL ELECTRICAL CODE AS AMENDED.

**STATE FIRE SAFETY CODES:**

- > 2021 INTERNATIONAL FIRE CODE AS AMENDED.
- > 2021 NFPA 101 LIFE SAFETY CODE AS AMENDED.

**STATE FIRE PREVENTION CODES:**

- > 2021 NFPA 1 FIRE CODE AS AMENDED.

**FUEL GAS:**

- > REFERENCES FROM 2020 NFPA 54 AND NFPA 58.

**CURRENT ADOPTED STANDARDS UNDER GENERAL NOTES ITEM I:**

- > 2021 NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE.
- > 2021 NFPA 30A CODE FOR MOTOR FUEL DISPENSING FACILITIES AND REPAIR GARAGES.
- > 2021 NFPA 70 NATIONAL ELECTRICAL CODE AS AMENDED.

**NOTE:**  
 FILL SHALL BE DISPOSED OF IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION REGULATIONS.

SHEET INDEX	
1 OF 9	SCHEMATIC SITE PLAN - 80 SOUTH STREET, DANBURY, CT 06810
2 OF 9	SCOPE OF PROJECT/SITE CONSTRUCTION LOGISTICS/SAFETY PLAN
3 OF 9	PROPOSED PUMP & TANK ELECTRICAL PLAN
4 OF 9	PROPOSED PUMP & TANK PIPING/VENTING PLAN
5 OF 9	DOUBLE FIBERGLASS TANK ELEVATIONS & PLANS
6 OF 9	TANK INSTALLATION PROCEDURES
7 OF 9	TANK ASSEMBLY DETAILS
8 OF 9	UNDERGROUND DISPENSER CONTAINER DETAILS
9 OF 9	NYSDOT SEDIMENT AND EROSION DETAILS



PROJECT NAME AND ADDRESS  
**PROPOSED UNDER STORAGE TANK REPLACEMENT**  
 3205 CROMPOND ROAD  
 YORKTOWN HEIGHTS, NY 10598

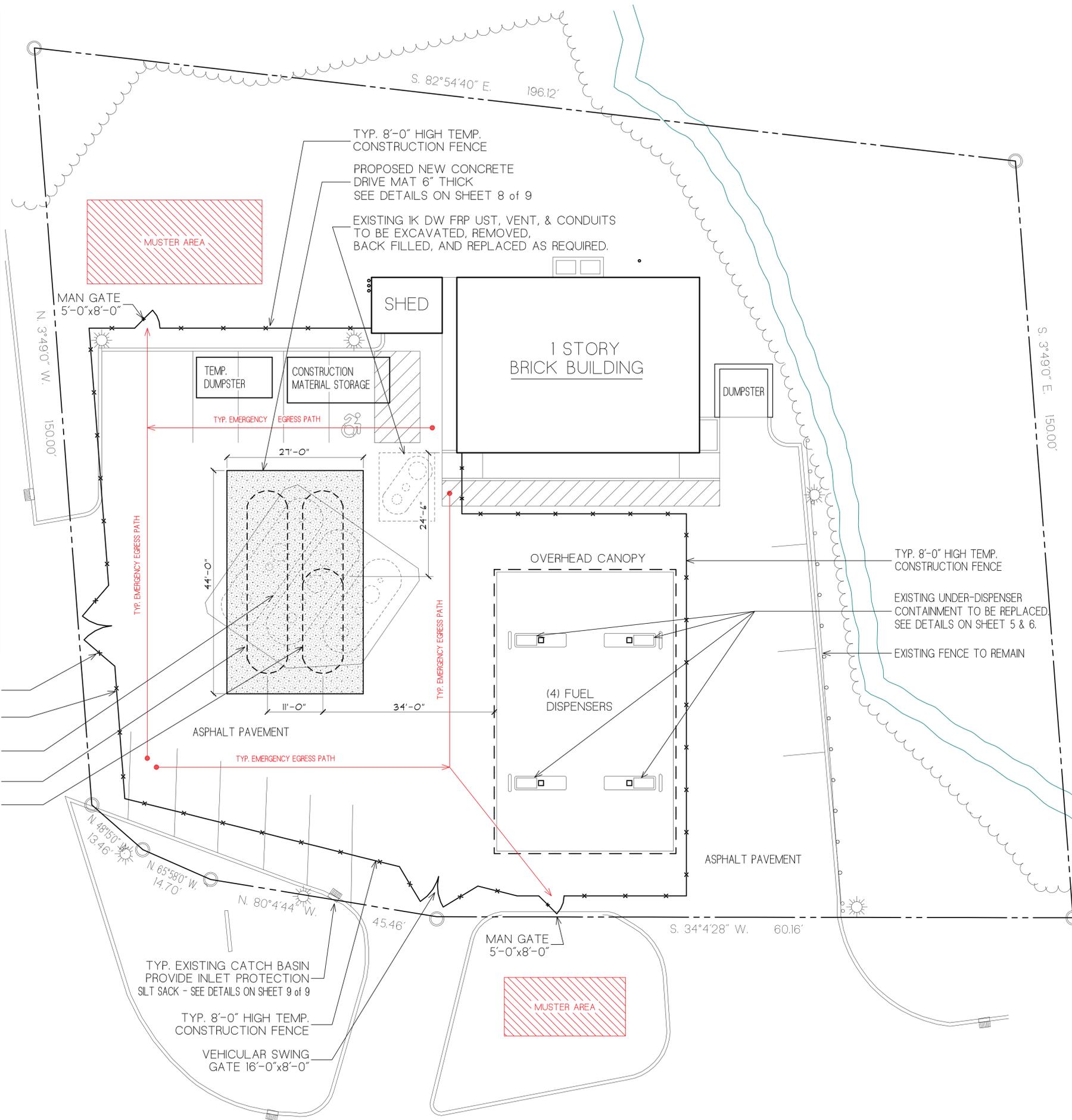
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 Sheet No: 1 of 9

**GENERAL NOTES**

- ALL CONSTRUCTION, MATERIALS AND EQUIPMENT, SYSTEMS AND ASSEMBLED UNITS SHALL BE IN MANUFACTURE AND INSTALLED AND TESTED IN CONFORMANCE WITH THE FOLLOWING CODES:  
 -NATIONAL FIRE PROTECTION ASSOCIATES NFPA30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, LATEST EDITION.  
 -NATIONAL FIRE PROTECTION ASSOCIATES NFPA30A, AUTOMOTIVE AND MARINE SERVICE STATION CODE, LATEST EDITION.  
 -NATIONAL FIRE PROTECTION ASSOCIATES NFPA70, NATIONAL ELECTRICAL CODE AND ALL REFERENCED STANDARDS.
- ALL ELECTRICAL CONSTRUCTION, MATERIALS AND EQUIPMENT SHALL BE SUITABLE FOR USE IN NEC CLASS I, GROUP D, DIVISION LOCATIONS.
- THE CONSTRUCTION SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO INSTALLING CONSTRUCTION.
- THE CONTRACTOR SHALL MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL TOWN CERTIFICATION & LICENSING REQUIREMENTS AND AUTHORITY HAVING JURISDICTION, OVERSEEING THE PROJECT
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHILE WORKING TO SAFEGUARD EXISTING STRUCTURES, UTILITIES, AND SURVEY MARKERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, AND SURVEY MARKERS FROM THE WORK BEING PERFORMED.
- THE CONTRACTOR SHALL PROVIDE THEIR OWN HEALTH AND SAFETY PROGRAM THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH ALL APPLICABLE OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE HAZARD BARRIERS PLACED CONSPICUOUSLY AROUND ALL PHASES OF CONSTRUCTION TO SAFEGUARD THE GENERAL PUBLIC AND TRAFFIC AGAINST DANGEROUS CONDITIONS.
- PRIOR TO CONSTRUCTION, THE GENERAL CONTRACTOR SHALL GIVE TIMELY NOTIFICATION TO ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL TANK ACCESS PORTS PRIOR TO ORDERING. SHOULD LOCATIONS VARY FROM DESIGN PLANS NOTIFY PROJECT ENGINEER AND MODIFY TANK PADS ACCORDINGLY.
- CONTRACTOR SHALL DETERMINE PAD ELEVATIONS IN ACCORDANCE WITH THE EXISTING PAVING, GRADING, AND DRAINAGE.
- THESE PLANS ARE PREPARED FOR THE INSTALLATION OF PETROLEUM STORAGE EQUIPMENT ONLY.
- ALL EXISTING UTILITIES ABOVE AND BELOW GROUND ARE APPROXIMATELY LOCATED. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO INITIATING CONSTRUCTION.
- ALL FILL EXCAVATED IS TO BE REMOVED FROM THE SITE BY MEANS OF LIVE LOADED AND DISPOSED AT A CLEAN EARTH RECYCLING FACILITY. SEE NYS DOT SEDIMENT AND EROSION DETAILS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, PROVIDING, MAINTAINING, AND SUBSEQUENTLY REMOVING EXCAVATION SUPPORT SYSTEMS AS REQUIRED TO RETAIN EARTH EXCAVATIONS FOR THE INSTALLATION OF THE NEW UNDER STORAGE TANKS. THE EXCAVATION SUPPORT SYSTEM SHALL PERMIT SAFE EXCAVATION AND BACKFILL, AND PREVENT LATERAL DISPLACEMENT OR SETTLEMENT OF ADJACENT BUILDING, STRUCTURES, ROADS, AND UTILITIES. THE CONTRACTOR SHALL SHOR, SUPPORT, AND PROTECT STRUCTURES, UTILITIES, PAVEMENT, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS THAT COULD DEVELOP DURING EXCAVATION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXCAVATION SUPPORT SYSTEM FOR THE FULL TERM OF THE CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR OFF LOADING, SETTING, AND ANCHORING THE UST.

**DEMO NOTES**

- SAW CUT, BREAK OUT CONCRETE, AND EXCAVATE TO EXPOSE EXISTING PIPES/CONDUITS. SLOPE EXCAVATION AS PER OSHA REQUIREMENTS.
- REMOVE AND DISPOSE OF EXISTING FUEL DISPENSERS AND UNDER DISPENSER CONTAINMENT SUMPS. LOAD ONTO TRUCK AND TRANSPORT TO APPROVED DISPOSAL FACILITY AS REQUIRED.



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**SCOPE OF PROJECT/SITE CONSTRUCTION LOGISTICS/SAFETY PLAN**

SCALE: 1"=10'



NEW NEMA 3R RAIN TIGHT TROUGH W/ BARRIER TO MPD'S AND UST'S SEPARATE HIGH/LOW VOLTAGE

NEW 12K TANK - SEE DETAILS ON SHEET 5 of 9  
 NEW 12K SPLIT TANK - SEE DETAILS ON SHEET 5 of 9

ELECTRICAL LEGEND & NOTES	
	PCI - SW FG RSC SERIES DISP SUMP - CONDUCTRESS AUTO DISP - EMCO SS DP F SHEAR VALVE # A0060-023S
	FG TANK SUMP - EMCO 42 MH COVER #A0716-042CDW PCI - 45" X 40H - SW FG TANK SUMP - COLLAR MNT
	FILL - DW SPILL CONTAINER - EMCO #A1004EVR-317A
	STAGE I VR - SW-R SPILL CONTAINER - EMCO #1004EVR-317SS140
	INTERSTITIAL MONITOR - MH COVER - EMCO #A0716-018C
	TANK MONITORING PROBE - MH COVER - EMCO #A0716-018C
	DIESEL ACCESS COVER MH - EMCO#A0717-122
	3/4" LOW VOLTAGE CONDUIT
	3/4" POWER CONDUIT
NOTES:	ALL CONDUIT RUNS SHALL HAVE SEAL OFF FITTINGS AS THE FIRST FITTING ABOVE GRADE & INSIDE SUMP. NEW CONDUIT MAY TRANSITION TO PVC WHERE PERMITTED BY THE NEC.



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**PROPOSED UNDER STORAGE TANK REPLACEMENT**  
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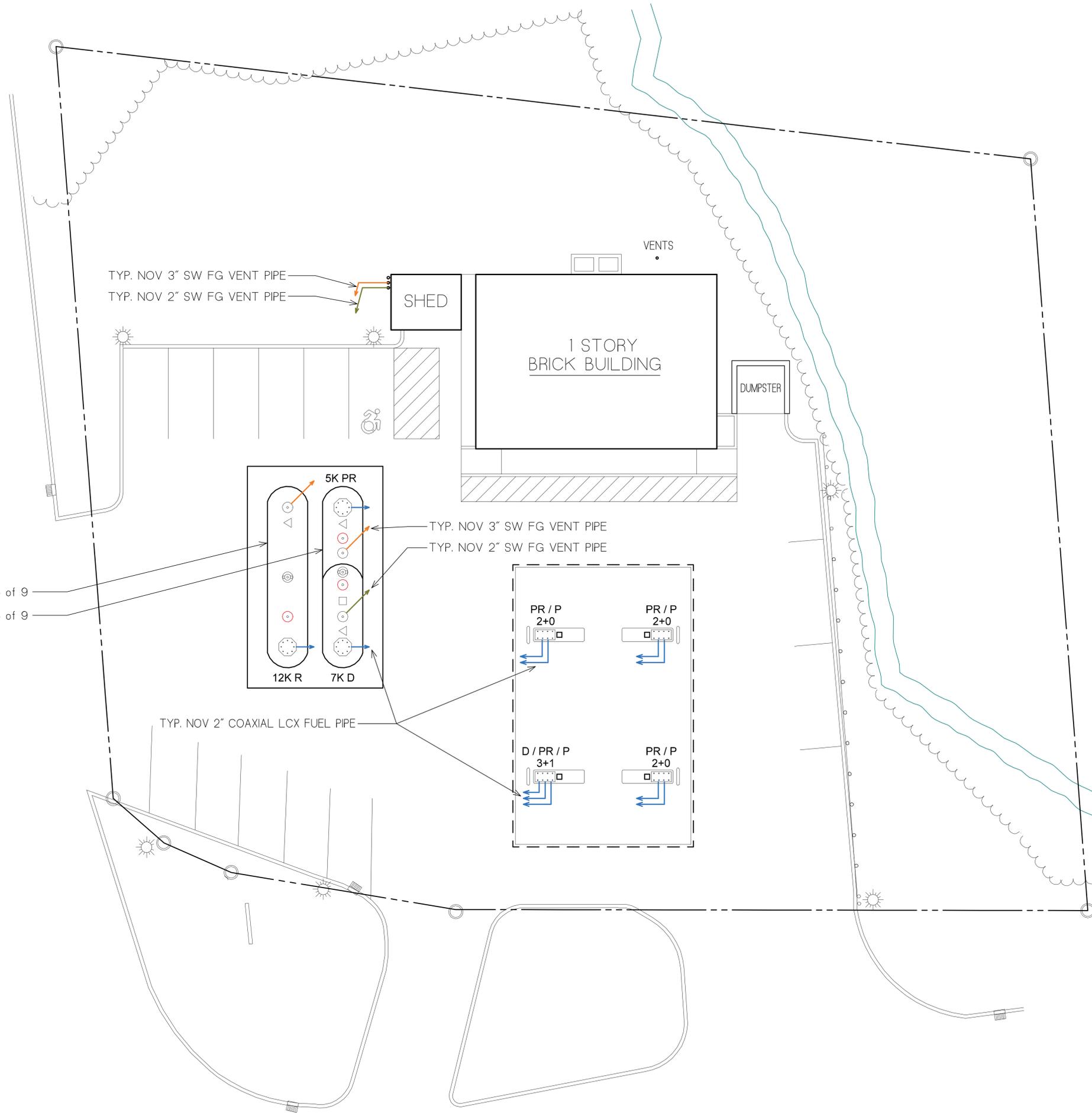
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Original Date: Sheet No:

NOTE: CONDUITS SHOWN IN THIS DRAWING ARE SCHEMATIC AND DO NOT NECESSARILY REPRESENT THEIR FINAL INSTALLED LOCATIONS.

**PROPOSED PUMP & TANK ELECTRICAL PLAN**

SCALE: 1"=10'





NEW 12K TANK - SEE DETAILS ON SHEET 5 of 9  
 NEW 12K SPLIT TANK - SEE DETAILS ON SHEET 5 of 9

ELECTRICAL LEGEND & NOTES	
	PCI - SW FG RSC SERIES DISP SUMP - CONDUCTRESS AUTO DISP - EMCO SS DP F SHEAR VALVE # A0060-023S
	FG TANK SUMP - EMCO 42 MH COVER #A0716-042CDW PCI - 45" X 40H - SW FG TANK SUMP - COLLAR MNT
	FILL - DW SPILL CONTAINER - EMCO #A1004EVR-317A
	STAGE I VR - SW-R SPILL CONTAINER - EMCO #1004EVR-317SSI40
	INTERSTITIAL MONITOR - MH COVER - EMCO #A0716-018C
	TANK MONITORING PROBE - MH COVER - EMCO #A0716-018C
	DIESEL ACCESS COVER MH - EMCO#A0717-122
	NOV 2" COAXIAL LCX FUEL PIPE
	NOV 2" SW FG VENT PIPE
	NOV 3" SW FG VENT PIPE
NOTES:	ALL CONDUIT RUNS SHALL HAVE SEAL OFF FITTINGS AS THE FIRST FITTING ABOVE GRADE & INSIDE SUMP. NEW CONDUIT MAY TRANSITION TO PVC WHERE PERMITTED BY THE NEC.

NOTE: CONDUITS SHOWN IN THIS DRAWING ARE SCHEMATIC AND DO NOT NECESSARILY REPRESENT THEIR FINAL INSTALLED LOCATIONS.

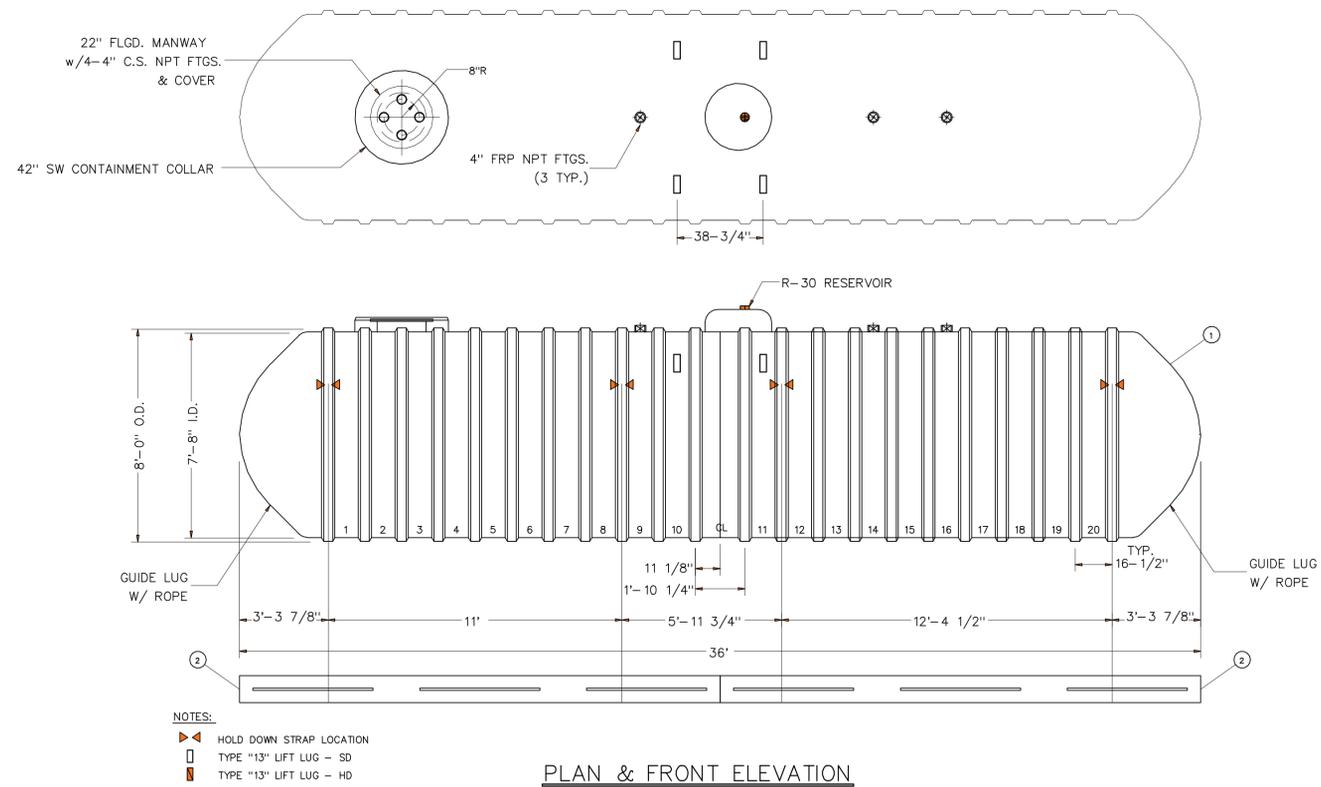
PROPOSED PUMP & TANK PIPING/VENTING PLAN  
 SCALE: 1"=10'

**JMG ENGINEERING**

STATE OF NEW YORK  
 GEORGI KHARZESWILI  
 LICENSED PROFESSIONAL ENGINEER  
 058214

PROJECT NAME AND ADDRESS  
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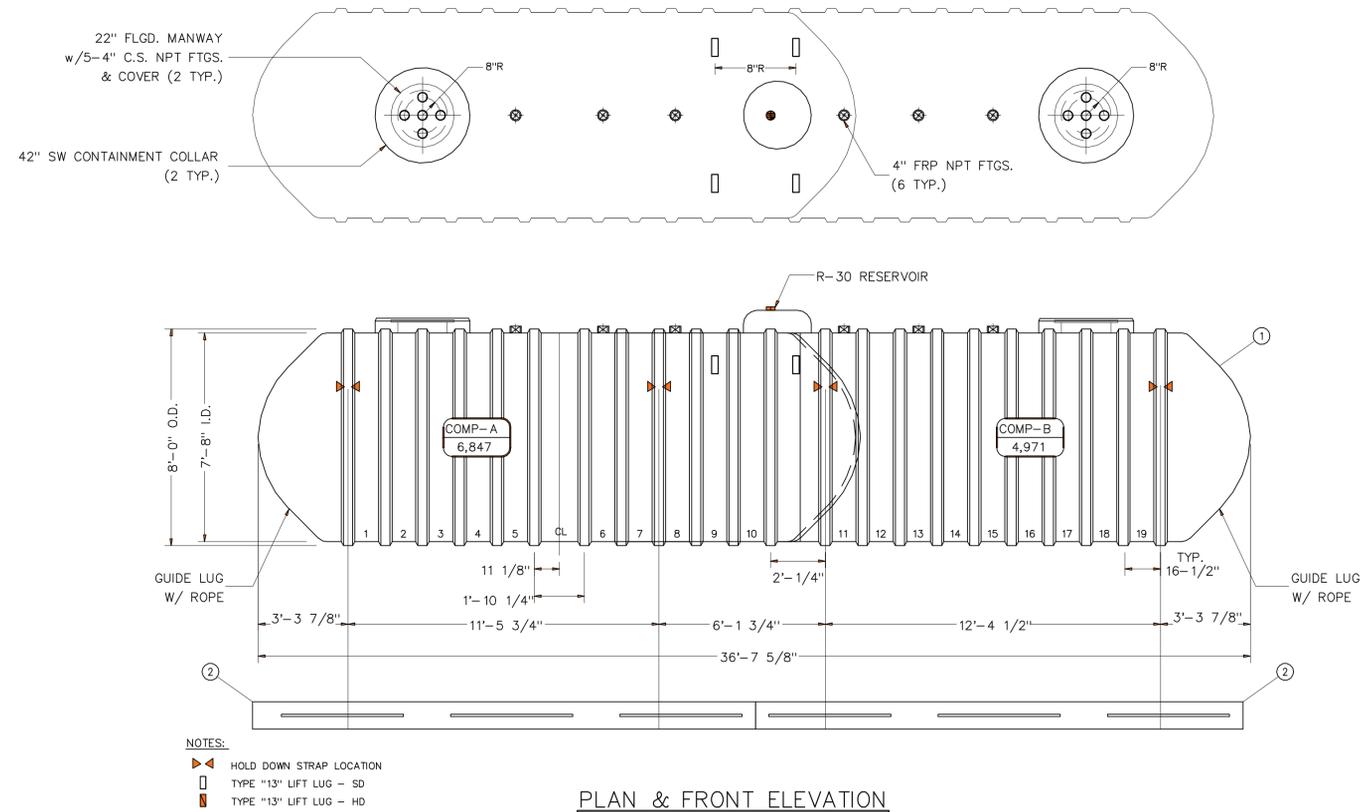
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 Original Date: Sheet No:



PLAN & FRONT ELEVATION

12K DOUBLE FIBERGLASS TANK

ITEM NO.	QTY.	DESCRIPTION	PART NO.
1	1	BASE ASSEMBLY	192724640-002
2	2	12"x12"x18" DEADMEN-OPTIONAL	18812316-001



PLAN & FRONT ELEVATION

12K (7K/5K SPLIT) DOUBLE FIBERGLASS TANK

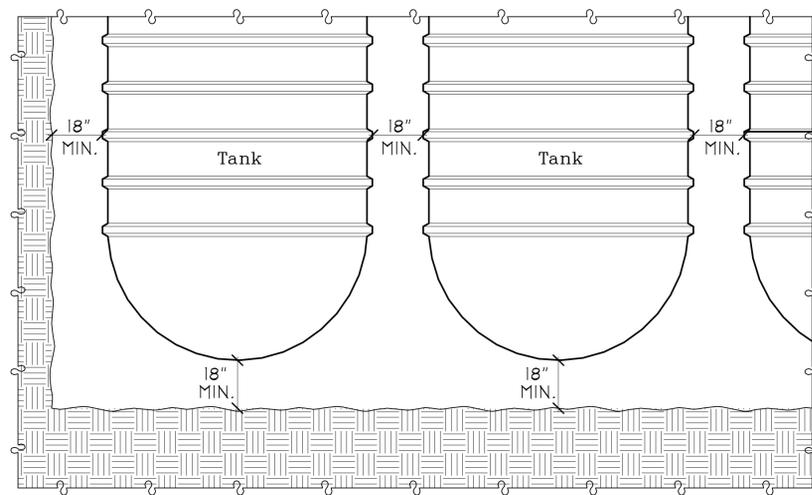
ITEM NO.	QTY.	DESCRIPTION	PART NO.
1	1	BASE ASSEMBLY	192724640-002
2	2	12"x12"x18" DEADMEN-OPTIONAL	18812316-001

**JMG**  
ENGINEERING

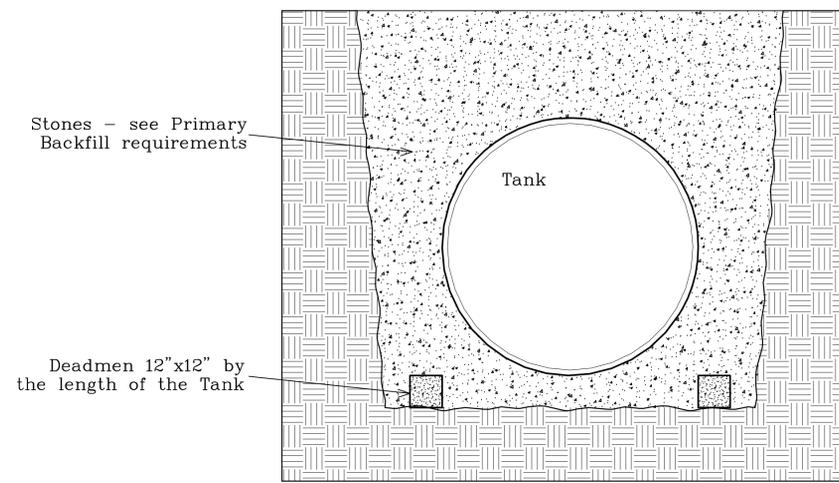


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YORKTOWN HEIGHTS, NY 10598

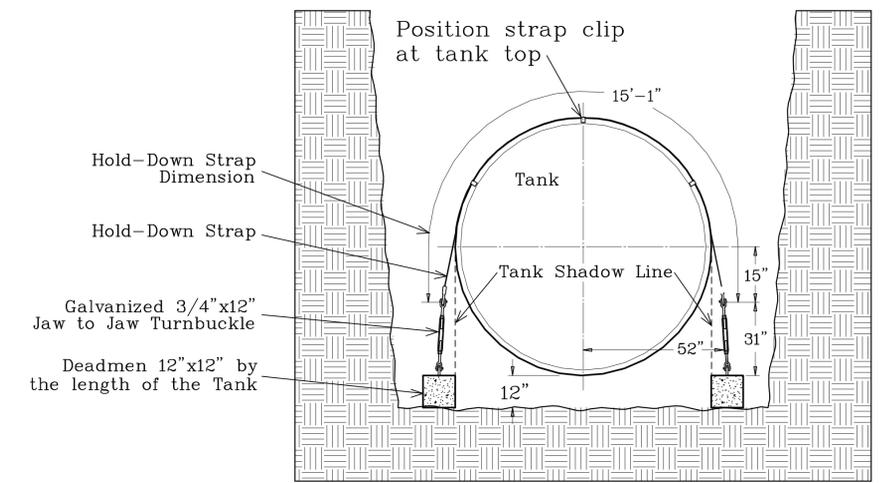
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TANK SPACING



PRIMARY BACKFILL MATERIAL



D-RING/D-RING ANCHOR STRAPS

## EXCAVATION REQUIREMENTS

### GENERAL

- The installing contractor must take all necessary precautions in or near a tank excavation. These precautions should include but are not limited to the following:
  - Locate and protect any utility installations near the excavation before opening the excavation.
  - Secure the walls of the excavation.
  - Take appropriate precautions to protect against exposure to hazardous vapors from the excavation.
  - Avoid hazards associated with water accumulation in the excavation.
  - Erect barricades, etc., to prevent unauthorized vehicle or pedestrian traffic.
  - Inspect, a minimum of once a day, the excavation and surrounding area during the entire installation process.
- The minimum clearance dimensions given in this section are important to the successful installation of a tank.
- Additional clearances may be necessary due to regulations, safety requirements or operational requirements of governmental agencies. Follow all applicable regulations and safety practices.

### DEPTH OF EXCAVATION

- Excavations must allow for 12 inches [30 cm] of backfill between the bottom of the tank and the bottom of the excavation or the top of the anchor slab (or any other stabilizing materials used).
- If either an anchor slab or other stabilizing material is used, allow additional depth in the excavation to accommodate their construction.
- Typically, no additional depth of bedding is required for the use of a deadmen anchoring system.

## DEADMEN

- Deadmen may be installed in multiple sections as long as the total length of the assembled deadmen is appropriate for the installed tank, and as long as each section contains at least two balanced anchor points.
- Lay the deadmen in the excavation parallel to the tank and outside of the tank shadow.
- The minimum spacing between the tanks must be equal to or greater than the width of the deadmen used for the tanks.
- Each tank will have its own set of deadmen equaling the length of the tank.
- Always provide sufficient clearance to allow the deadmen to be set outside of the tank shadow line.

## PRIMARY BACKFILL REQUIREMENTS

### GENERAL

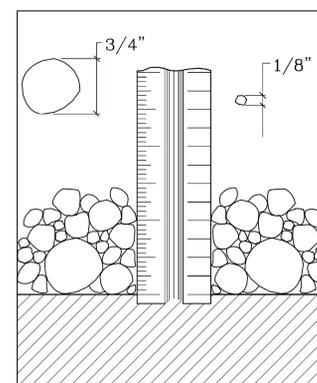
- Stones or crushed stones are to be used as primary backfill material.
- Primary backfill material is to be clean, free-flowing, and free of dirt, sand, large rocks, roots, organic materials, debris, ice and snow.
- No backfill material shall be frozen or contain lumps of frozen material at any time during placement.
- Materials like soft limestone, sandstone, sea shells or shale are not to be used as backfill.

### ROUNDED STONES

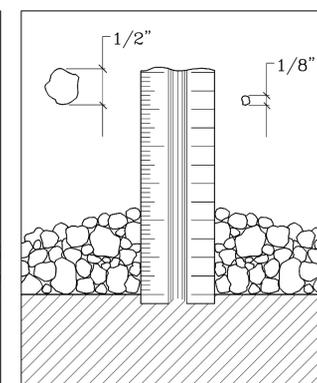
- When using select rounded stones, the material is to be a mix of rounded particles, sizes between 1/8 inch and 3/4 inch.
- No more than 5 percent (by weight) of the backfill may pass through a #8 sieve. See TABLE B1-1 for additional information about specifications.

### CRUSHED STONES

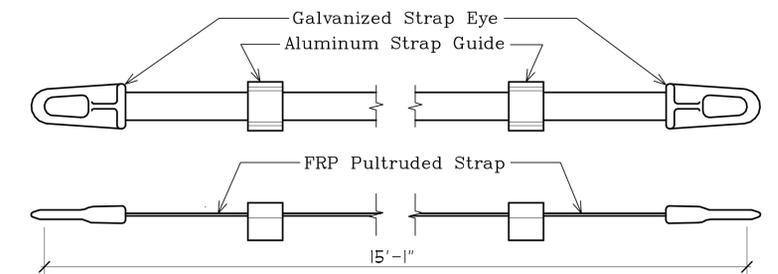
- When using crushed stones, the material is to be a mix of angular particles, sizes between 1/8 inch and 1/2 inch.
- The crushed stones must conform to the specifications of ASTM C 33, sizes 7 or 8.
- No more than 5 percent (by weight) of the backfill may pass through a #8 sieve.



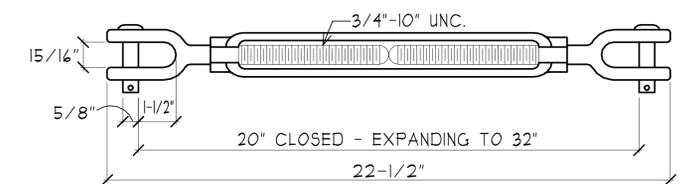
Rounded Stone



Crushed Stone



HOLD-DOWN STRAPS



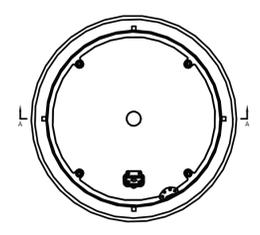
GALVANIZED 3/4" x 12" JAW TO JAW TURNBUCKLE

**JMG**  
ENGINEERING

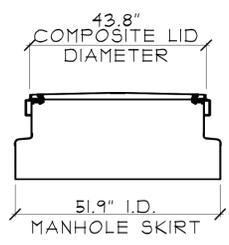


PROJECT NAME AND ADDRESS  
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3205 CROMPOND ROAD  
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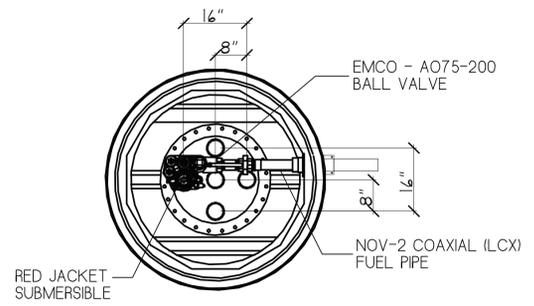


TOP VIEW

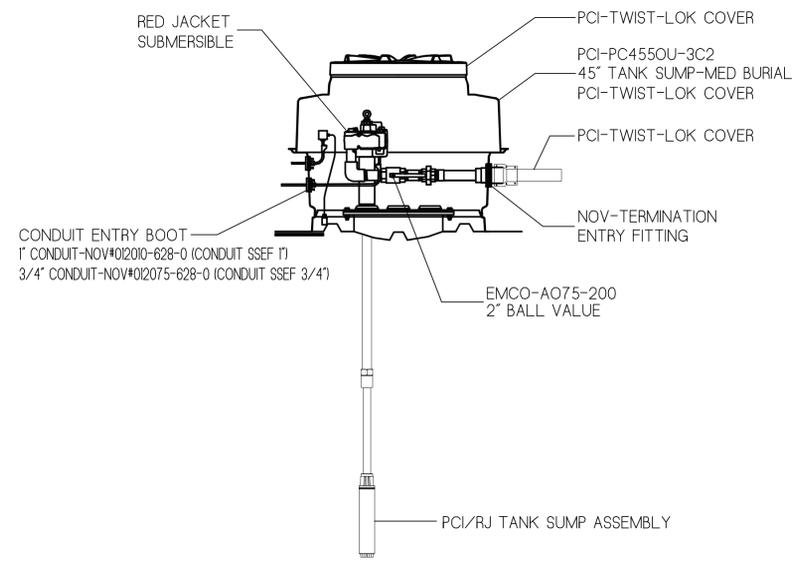


SECTION A-A

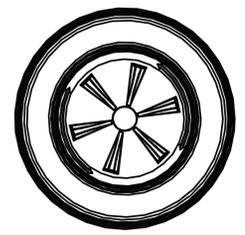
EMCO = 42" COMPOSITE MH ASSY W/ "WEDDING CAKE" SKIRT  
NOT TO SCALE



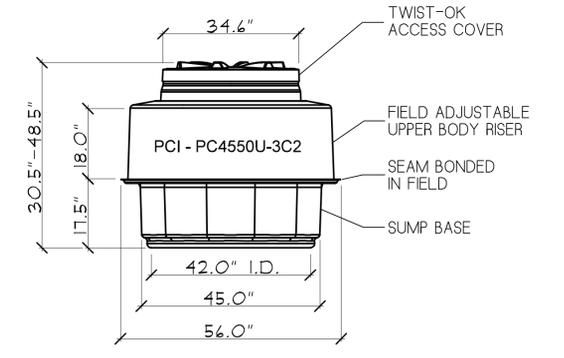
TOP VIEW



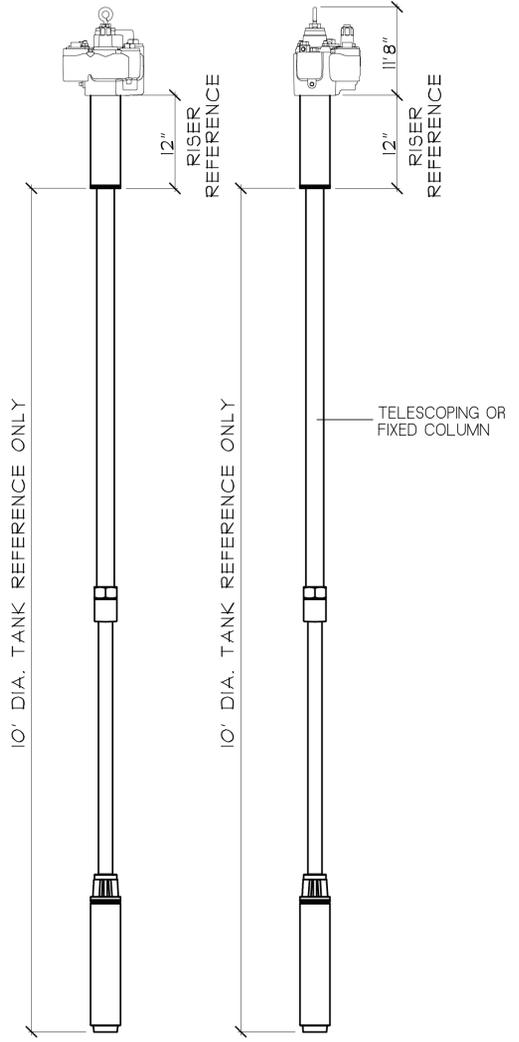
PCI / RJ TANK SUMP ASSEMBLY  
NOT TO SCALE



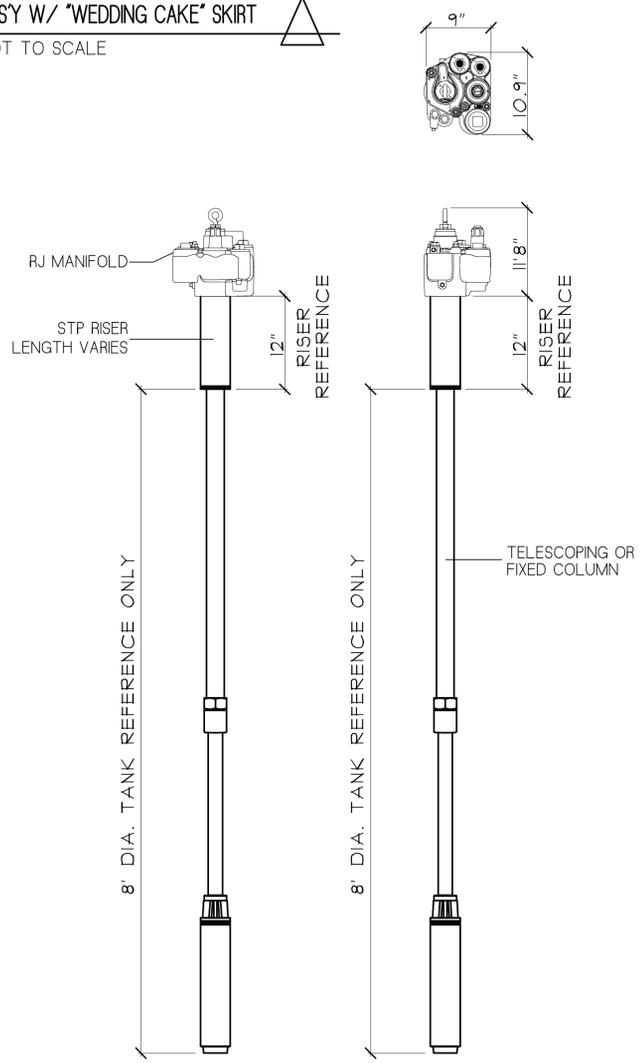
TOP VIEW



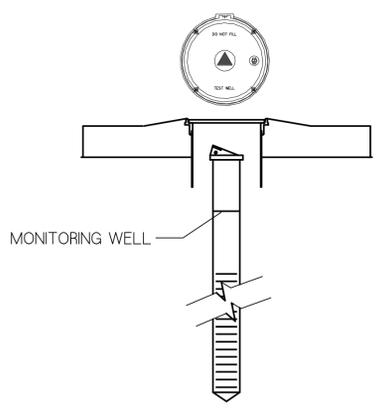
PCI - 45" WT TANK SUMP - COLLAR MNT 42"  
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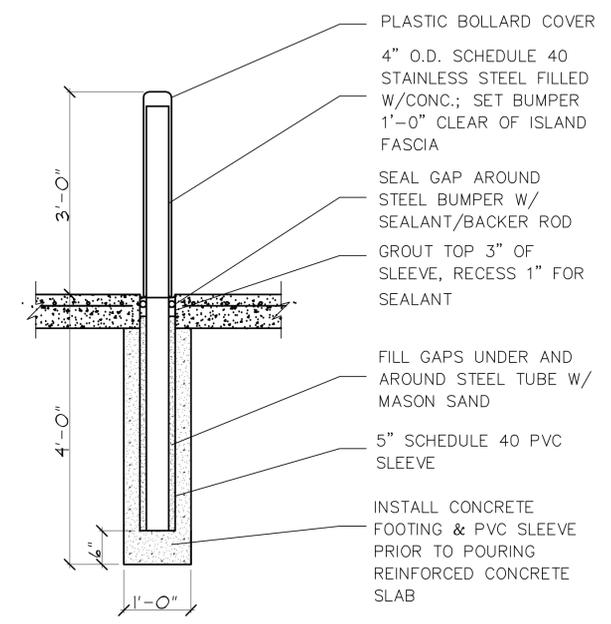
4"-0" SUBMERSIBLE ASSY  
RED JACKET - FIXED SPEED  
NOT TO SCALE



4"-0" SUBMERSIBLE ASSY  
RED JACKET - FIXED SPEED  
NOT TO SCALE



MONITORING WELL DETAIL  
NOT TO SCALE



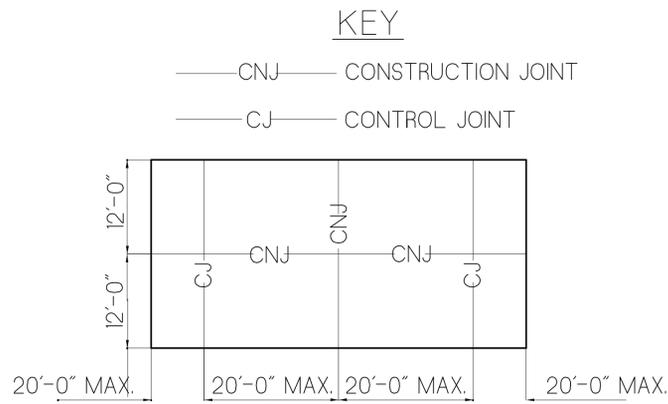
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**JMG ENGINEERING**

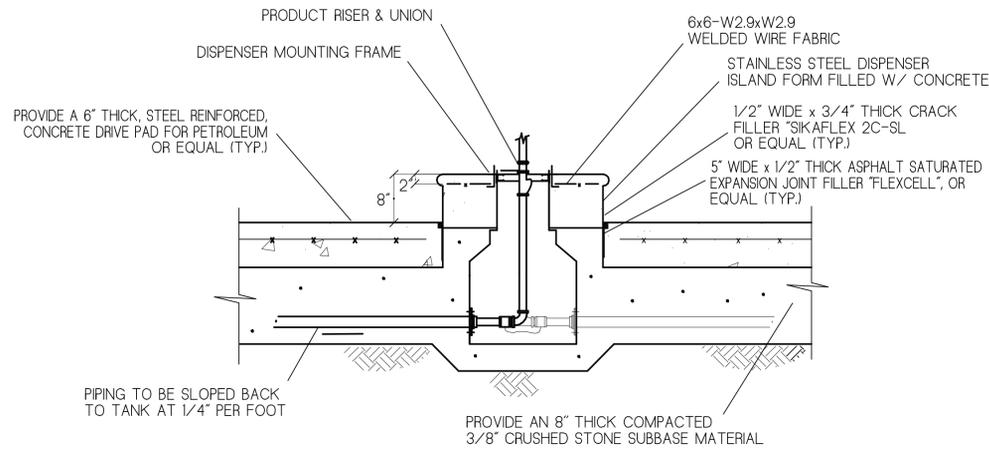
STATE OF NEW YORK  
GEORGI KHARDEZEVSKI  
LICENSED PROFESSIONAL ENGINEER  
086214

PROJECT NAME AND ADDRESS  
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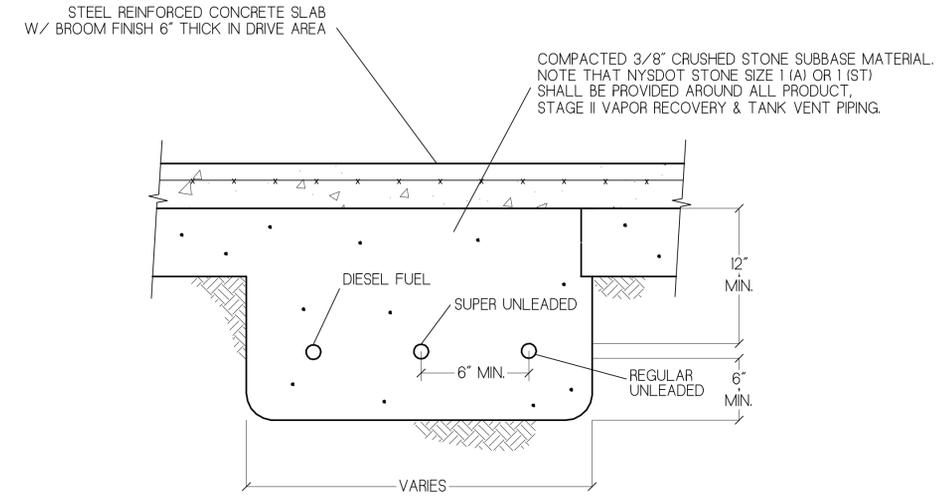


TYP. CONC. SLAB CONSTRUCTION & CONTROL JOINT LAYOUT DETAIL  
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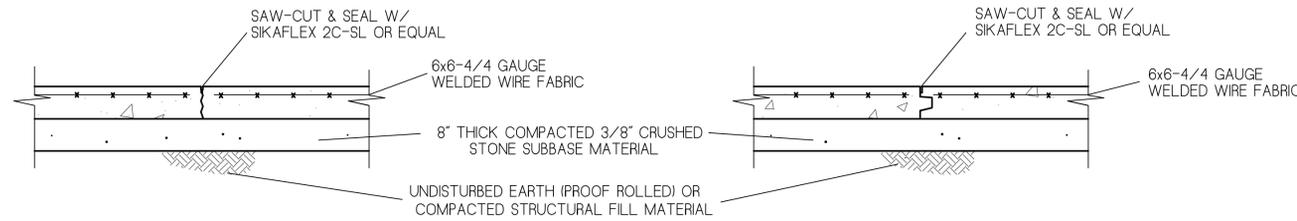


TYP. DISPENSER SUMP DETAIL  
NOT TO SCALE

- Notes:  
 1. Double walled piping for gasoline and diesel products shall be NOV- 2 COAXIAL (LCX).  
 2. All nw product piping shall be sloped 1/4" per ft. from the pump dispenser and vents to the respective underground storage tank compartment.



TYP. TRENCH SECTION  
NOT TO SCALE

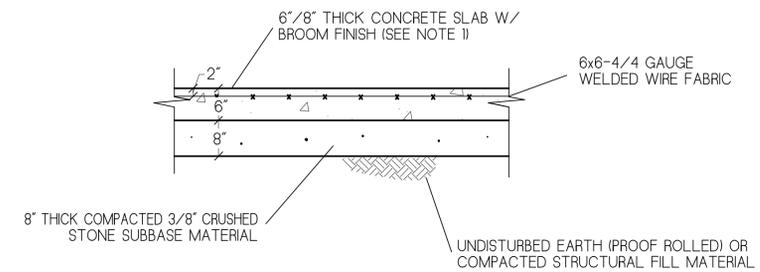


TYP. SLAB CRACK CONTROL JOINT DETAIL  
NOT TO SCALE

TYP. SLAB CONSTRUCTION CONTROL JOINT DETAIL  
NOT TO SCALE

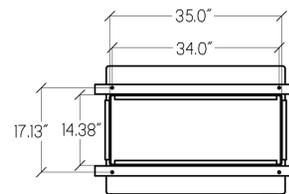
- Notes:  
 1. Saw-cut control joints in slab-on-grade to a depth of 1 1/2" within 6 hours after placing the concrete, or as soon as equipment can be supported, before uncontrolled cracking occurs.  
 2. Crack control joints shall be spaced at 20' centers (maximum).  
 3. Saw-cut joints are to be cleaned of debris and residue after each sawing and prior to applying any concrete sealants.  
 4. Crack control joints in concrete drive pad shall be sealed with "SIKAFLEX 2C-SL" joint material, or equal.  
 5. Construction joints are an acceptable alternative to control joints.

- Notes:  
 1. Saw-cut control joints in slab-on-grade to a depth of 1 1/2" x 1/2" wide within 6 hours after placing the concrete, or as soon as equipment can be supported, before uncontrolled cracking occurs.  
 2. Construction control joints shall be spaced at 20' centers (maximum).  
 3. Saw-cut joints are to be cleaned of debris and residue after each sawing and prior to applying any concrete sealants.  
 4. Construction joints in concrete drive pad shall be sealed with "SIKAFLEX 2C-SL" joint material, or equal.  
 5. Construction joints are an acceptable alternative to control joints.

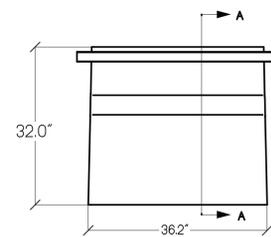


TYP. CONCRETE SLAB DETAIL  
NOT TO SCALE

- Notes:  
 1. The concrete drive pad is to be 6" thick and the concrete tank pad is 8" thick.  
 2. Contractor shall grade concrete surface away from tank/ equipment access manholes and dispenser islands. Grading to be coordinated with site improvements and existing or proposed drainage system.  
 3. Refer to construction specification 2.3 on this sheet for additional concrete, reinforcing and grading information.  
 4. All dispenser island forms shall be filled with 4,000 PSI concrete reinforced with 6X6 - W4 X W4 welded wire fabric.

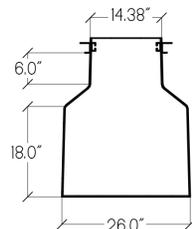


TOP VIEW

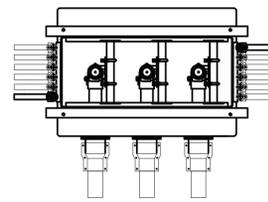


SIDE VIEW

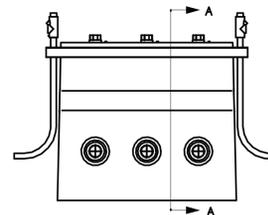
PCI-RSC 146360  
 FG DISPENSER SUMP  
 W - STABILIZER KIT  
 #SVA1204



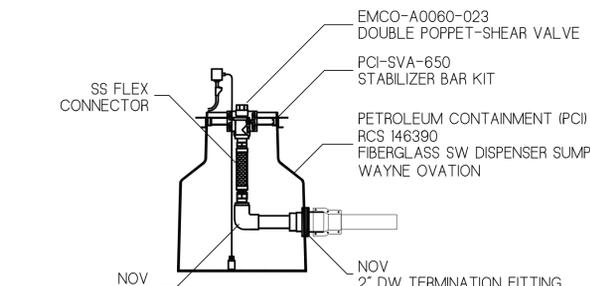
SECTION-A



TOP VIEW



FRONT VIEW



SECTION-A

PETROLEUM CONTAINMENT INC - FG DISPENSER SUMP #RSC14630 W/ STABILIZER BAR KIT #SVA1204  
NOT TO SCALE

PCI DISPENSER SUMP ASSEMBLY - 90 - 3P  
NOT TO SCALE

**JMG**  
 ENGINEERING



PROJECT NAME AND ADDRESS  
**PROPOSED UNDER STORAGE TANK REPLACEMENT**  
 3205 CROMPOND ROAD  
 YORKTOWN HEIGHTS, NY 10598

12/17/25

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Original Date:

Sheet No:

**EROSION CONTROL AND SEDIMENTATION NOTES:**

1. CONSTRUCT "TEMPORARY CONSTRUCTION ENTRANCE" AS SHOWN ON DETAIL PLAN PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION VEHICLES SHALL EXIT THE SITE OVER THIS "TEMPORARY CONSTRUCTION ENTRANCE". THE CONTRACTOR SHALL USE THIS AREA TO REMOVE SOIL FROM THE TIRES OF CONSTRUCTION VEHICLES. "TEMPORARY CONSTRUCTION ENTRANCE" SHALL CONSIST OF SIX TO TWELVE INCHES OF TWO TO THREE INCH STONE.

2. THE SURFACE OF ALL DISTURBED AREAS SHALL BE STABILIZED DURING AND AFTER CONSTRUCTION. TEMPORARY MEASURES SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT EROSION AND SILTATION. TEMPORARY EROSION CONTROL MEASURES SHALL CONFORM WITH THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES URBAN AND SUBURBAN AREAS" DATED MARCH 1997 AND SHALL BE APPROVED BY THE ENGINEER. ALL DISTURBED SLOPES WILL BE STABILIZED WITH A 4 TO 6 INCHES OF TOP-SOIL AND A PERMANENT VEGETATIVE COVER. SOME OR ALL OF THE FOLLOWING MEASURES WILL BE UTILIZED ON THIS PROJECT.

- A. TEMPORARY SEEDING
- B. TEMPORARY MULCHING (STRAW)
- C. PERMANENT SEEDING
- D. PLACEMENT OF SOD
- E. HYDROSEEDING
- F. PLACEMENT OF HAY (WINTER MONTHS)
- G. PLACEMENT OF JUTE NETTING

3. DUST CONTROL: IF DUST IS GENERATED DURING CONSTRUCTION, ACTIVITIES THEN THE USE OF WATER TRUCKS OR WATER SPRINKLING WILL BE IMPLEMENTED.

4. DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER SHALL BE KEPT TO A MINIMUM AT ALL TIMES.

5. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY SAND, DIRT, OR DEBRIS WHICH ERODES FROM ROAD CONSTRUCTION THAT MAY REDUCE THE EFFICIENCY OF THE PROTECTIVE MEASURES (SILT BARRIERS, SWALES, PONDS, CHECK DAMS) AND TO PREVENT TRANSPORTING OF SILT OR DEBRIS ONTO PRIVATE PROPERTY OR AREAS BEYOND THE LIMIT OF WORK BOUNDARIES.

6. IF A DRAINAGE OR RUN-OFF PROBLEM OCCURS DURING CONSTRUCTION, THE APPLICANT SHALL TAKE IMMEDIATE CORRECTIVE MEASURES.

7. ANY SILT OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE ACCESS ROAD AND REMOVED FROM EXISTING DRAINAGE SYSTEM INCLUDING CATCH BASIN SUMPS, PIPELINES, MANHOLES, AND DITCHES IMMEDIATELY UPON DISCOVERY, OR WITHIN 24-HOURS OF BEING NOTED BY THE TOWN. THE STREET SHALL BE SWEEP AS APPROPRIATE FOR DUST CONTROL.

8. ALL STUMPS SHALL BE EITHER GROUND ON SITE WITH A STUMP GRINDER OR REMOVED FROM SITE FOR PROPER DISPOSAL. NO STUMPS SHALL BE BURIED ON SITE.

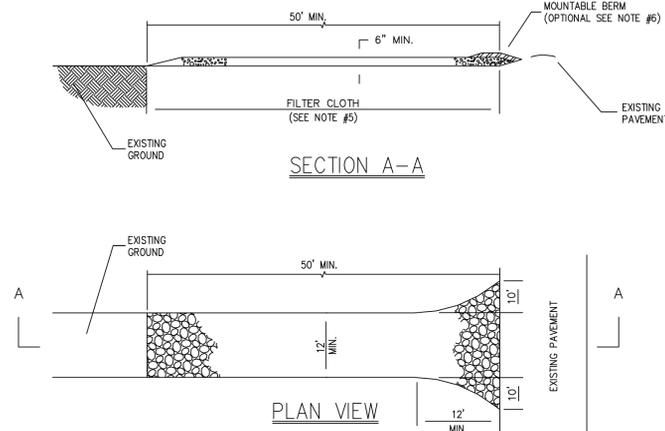
9. ALL STOCKPILES SHALL HAVE EROSION CONTROL MEASURES AROUND THE PERIMETER AT ALL TIMES. STOCKPILES SHALL BE LOCATED ONLY WITHIN THE LIMIT OF WORK BOUNDARIES.

10. AT ALL TIMES DURING AND AFTER CONSTRUCTION, COMPACTION OF SOILS IN DESIGNATED RECHARGE AREAS MUST BE MINIMIZED.

11. CATCH BASIN INLET PROTECTION: A SILT SACK SHALL BE PLACED IN CATCH BASINS ONCE INSTALLED. THESE WILL REQUIRE A MINIMUM OF WEEKLY MAINTENANCE AND REPLACEMENT IF NECESSARY.

12. AT THE COMPLETION OF THE PROJECT ALL DISTURBED AREAS ARE TO BE PERMANENTLY LOAMED AND SEEDED OR PERMANENTLY STABILIZED WITH OTHER SUITABLE GROUND COVER APPROVED BY THE ENGINEER.

13. AFTER THE VEGETATION IS ESTABLISHED AND THE GRADED SLOPES ARE STABILIZED, THE CONTRACTOR WILL REMOVE ALL THE TEMPORARY EROSION CONTROL MEASURES.



**NOTES**

1. STONE SIZE - USE 1" TO 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH TO BE PLACED OVER THE ENTIRE WIDTH AND LENGTH OF AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**STABILIZED CONSTRUCTION ENTRANCE**

**CONSTRUCTION SEQUENCE:**

DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN EROSION CONTROL BARRIERS. CONTRACTOR SHALL KEEP SPARE EROSION CONTROL SUPPLIES ON SITE CONSISTING OF HAYBALES, STRAW WATTLES AND SILT FENCE TO MAINTAIN AREAS AS NECESSARY. ALL DISTURBED AREAS SHALL BE TREATED WITH HYDROSEED, BONDED FIBER MATRIX, WOOD CHIPS, OR JUTE NET AS SOON AS POSSIBLE FOLLOWING GRADING. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL SUBSTANTIAL VEGETATION HAS BEEN ESTABLISHED AND THE ENGINEER HAS INSPECTED THE SITE.

1. STAKE OUT LIMIT OF CLEARING, AND INSTALL EROSION CONTROL AS SHOWN ON THE PLANS.

2. INSTALL CONSTRUCTION ENTRANCE.

3. ROUGH GRADE AND BUILD INFILTRATION BASINS IN OUTER PERIMETER INCLUDING INFILTRATION BED FOR ROOF RUNOFF CONTROL. BASINS SHALL BE INSTALLED IN THE ORDER 4,3,2,1 AND SHALL BE CONSTRUCTED PRIOR TO THE START OF ANY ROAD WORK. STABILIZE OUTER SLOPES AND PROVIDE RIP-RAP OVERFLOW TO INFILTRATION BASIN. STABILIZE ALL POND AREAS WITH LOAM AND SEED PRIOR TO CONSTRUCTION OF ROAD. SEED MIX FOR PONDS SHALL BE NEW ENGLAND CONSERVATION/WILDLIFE MIX FROM NEW ENGLAND WETLAND PLANTS.

4. PREPARE ROADWAY SUBBASE, COMPACT AND LAY BINDER COURSE OF PAVEMENT. CONSTRUCT COMMUTER PARKING AREA WITH PVIOUS PAVEMENT.

5. INSTALL DRAIN MANHOLE LIDS AND CATCH BASIN GRATES. PROVIDE SILT SACKS IN CATCH BASINS.

STOCKPILE REMAINING SITE TOPSOILS.

6. IMPORT SITE FILL MATERIAL AND ROUGH GRADE. ENSURE RUNOFF REMAINS CONTROLLED INSIDE OF BERM AND INFILTRATION BASIN.

7. INSTALL REMAINING DRAINAGE STRUCTURES FROM DRAIN MANHOLES TO FLARED ENDS.

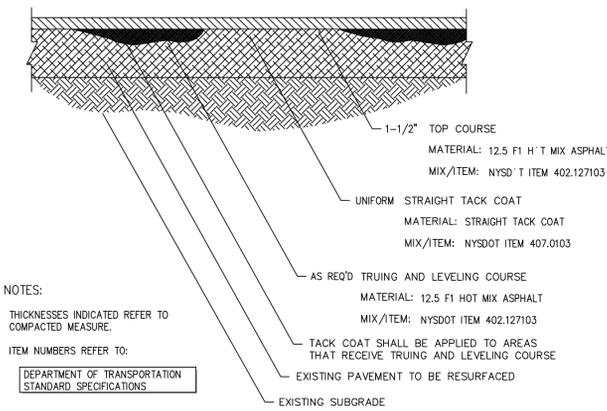
8. INSTALL SEWAGE COLLECTION SYSTEM, AND SEPTIC SYSTEMS.

9. CONSTRUCT BUILDING, THEN COMPLETE ALL SITE REQUIREMENTS (UTILITIES, PAVED DRIVEWAY, SEWER LINES, FINAL GRADING AND LANDSCAPING),

10. LAY FINISH COURSE OF PAVEMENT.

11. UPON FINAL INSPECTION AND APPROVAL AFTER VEGETATION ON DISTURBED AREAS HAS BEEN ESTABLISHED, REMOVE EROSION CONTROL MEASURES.

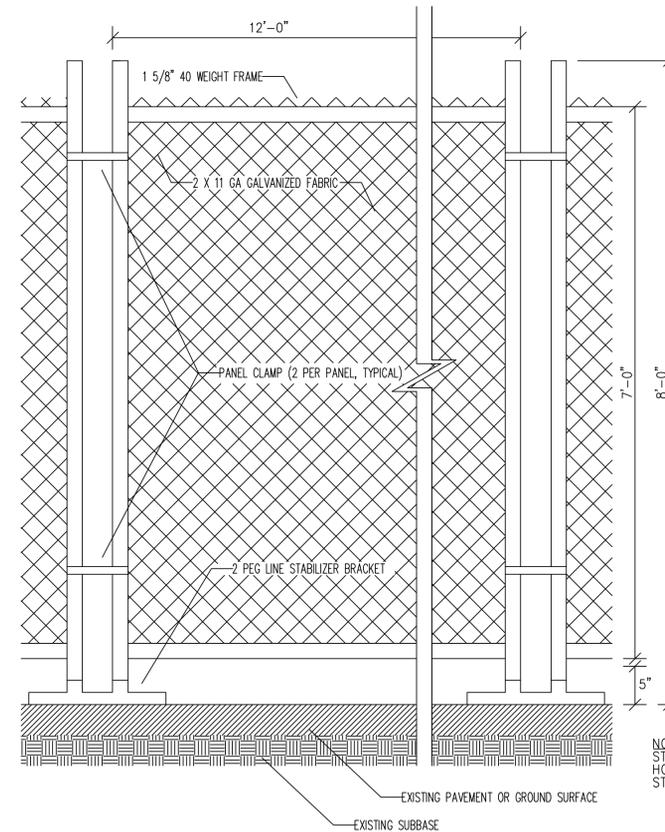
12. AFTER VEGETATION HAS BEEN ESTABLISHED, CLEAN AND REMOVE SEDIMENT FROM BASINS AND PERFORM FINAL INSPECTION.



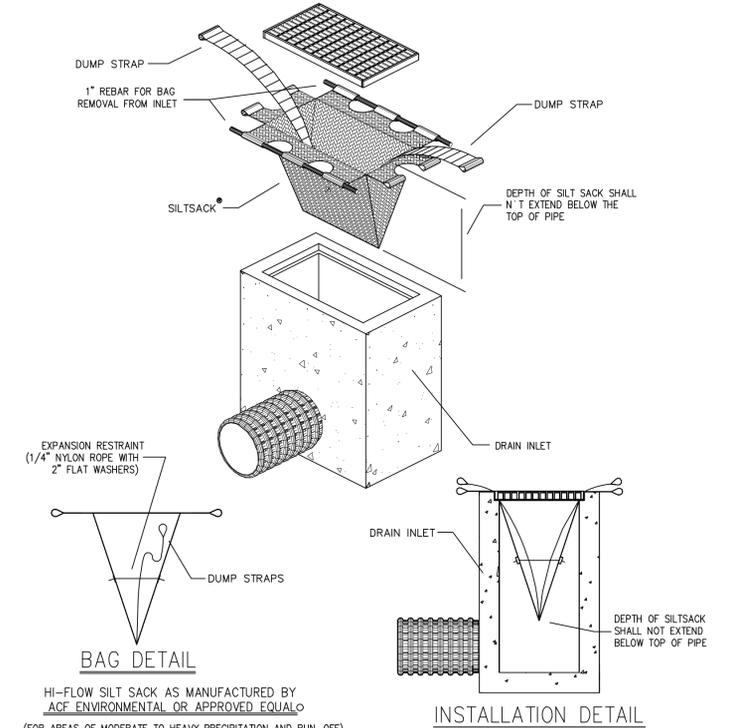
**NOTES:**

1. THICKNESSES INDICATED REFER TO COMPACTED MEASURE.
2. ITEM NUMBERS REFER TO: DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

**PAVEMENT MILL AND RESURFACING**



**TEMPORARY CHAIN LINK CONSTRUCTION FENCE**



HI-FLOW SILT SACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4481	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4481	1.5 SEC -1

**CATCH BASIN INLET PROTECTION: SILT SACK**



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