

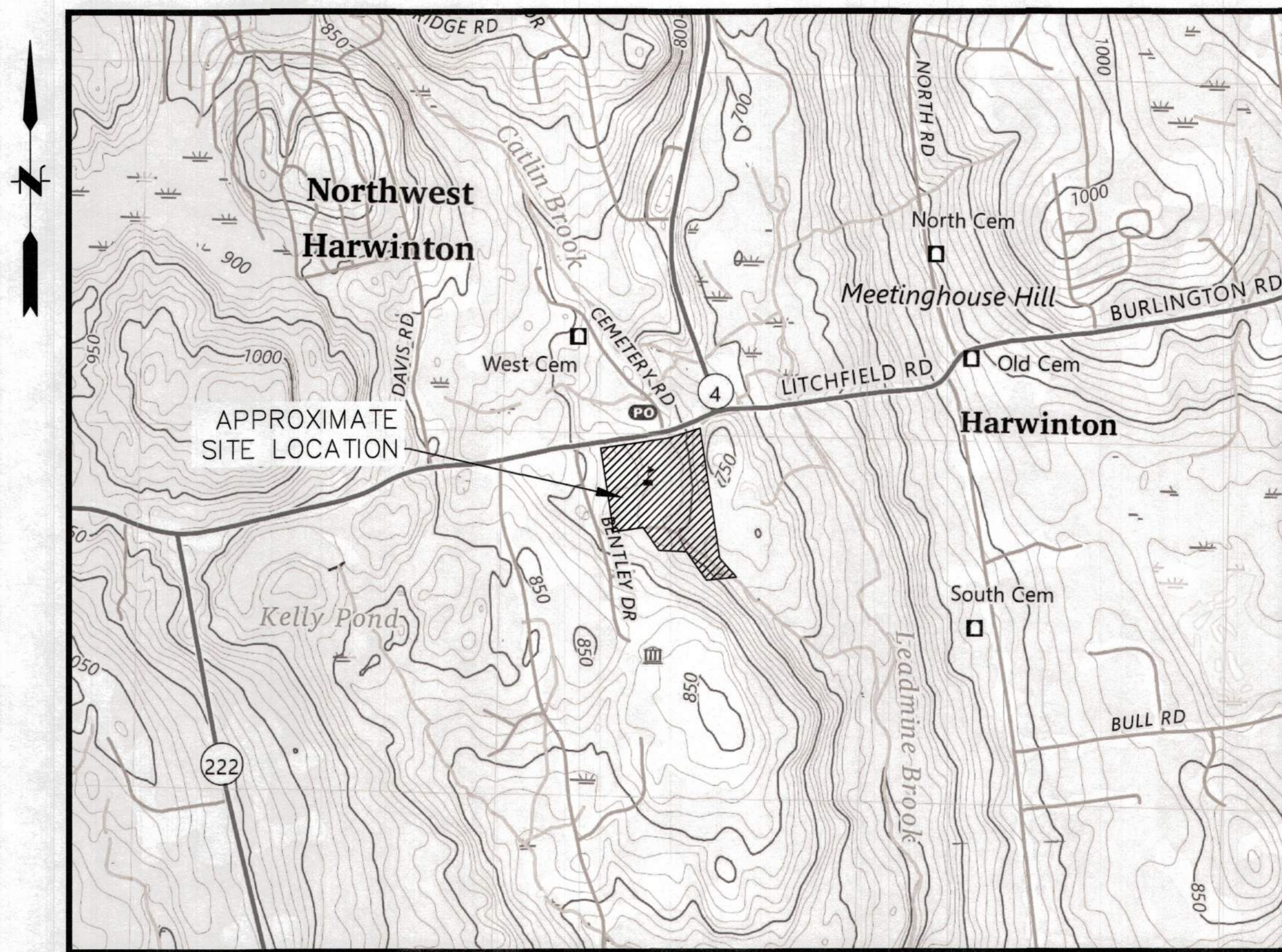
HARWINTON CONSOLIDATED SCHOOL

HARWINTON · CONNECTICUT UST REMOVAL / REPLACEMENT

JUNE 9, 2025

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LOCATION MAP

SCALE: 1" = 1000'

PREPARED BY

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PREPARED FOR
**REGIONAL SCHOOL
DISTRICT 10**
24 LYON ROAD
BURLINGTON, CT 06013

TOWN OF HARWINTON
Reviewed for Code Compliance

Sign: *[Signature]*
Date: 10/28/25

TORRINGTON AREA HEALTH DISTRICT
APPROVED
DATE: 10-18-25
[Signature]

PROJ. No.: 20241534.A11
DATE: 6/9/2025

G-001

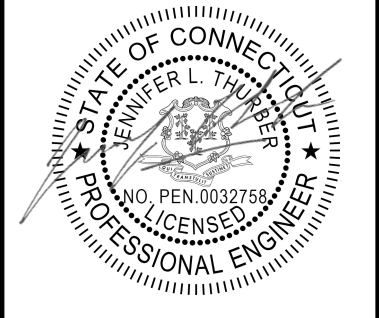
PERMIT SET

THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

2. ALL CONTRACTORS SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFERENCE TO SPECIFICATION AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL ENGINEERING.
3. THE INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC, INDICATING THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT, AND THEIR ASSOCIATED ACCESS AREAS, WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED BY INSTALLATION BY ANY CONTRACTOR SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS. FOR EACH CONFLICT, CONTRACTOR SHALL CARRY THE MORE EXPENSIVE OR LARGER QUANTITY OPTION.
5. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING EQUIPMENT LOCATIONS IN THE FIELD, AND SHALL ADVISE THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
7. ALL WORK SHALL CONFORM TO ALL APPLICABLE CURRENT BUILDING CODES, RULES, REGULATIONS AND ORDINANCES, INCLUDING THE ONES WRITTEN BY:
 - 7.1. REGULATORY AUTHORITIES HAVING JURISDICTION.
 - 7.2. OWNER'S INSURANCE CARRIER.
8. CONTRACTOR SHALL SECURE ALL PERMITS AND APPLICATIONS AND PAY ALL FEES PERTAINING TO THE CONTRACT.
9. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS WITH CODE OR MANUFACTURER-REQUIRED ACCESS SPACES. IF EQUIPMENT IS INSTALLED IN AN INACCESSIBLE LOCATION THE CONTRACTOR SHALL PROVIDE REQUIRED FIRE-RATED ACCESS DOORS, COORDINATED WITH THE ARCHITECT OR ENGINEER.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
11. CONTRACTOR SHALL COORDINATE THE LOCATION OF THEIR WORK WITH ALL OTHER TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE SYSTEM LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR TO RESTORE ANY EXISTING SYSTEMS, DEVICES, FINISHES, ETC., THAT ARE DAMAGED OR ALTERED DUE TO THE WORK, TO ACCEPTABLE CONDITION AS DETERMINED BY THE OWNER AND ENGINEER.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SITE SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
14. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.
15. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
17. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
18. CONTRACTOR SHALL PROVIDE SLEEVES AND SEALS FOR ALL PIPING OR CONDUIT THAT PENETRATES WALLS OR FLOOR SLABS.
19. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A LISTED FIRE STOP MATERIAL THAT MEETS ALL OF THE REQUIREMENTS OF THE STATE AND LOCAL BUILDING CODES AND THE LOCAL AUTHORITIES HAVING JURISDICTION. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR. THE FIRE-STOP INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE FIRE-STOPPING SYSTEM MANUFACTURER.
20. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ALL WALL AND FLOOR CORINGS TO STRUCTURAL ENGINEER FOR REVIEW BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO CORINGS INSTALLED. AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
21. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ANY PROPOSED STRUCTURAL MEMBER PENETRATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAILING BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO PENETRATIONS INSTALLED, AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
22. CONTRACTOR AND SUBCONTRACTORS SHALL COLLECTIVELY PREPARE TRADE COORDINATION DRAWINGS IN SUFFICIENT DETAIL TO PREVENT TRADE CONFLICTS IN AREAS OF CONGESTED WORK. THE TRADE COORDINATION DRAWINGS SHALL BE BASED ON SHOP DRAWINGS PREPARED BY ALL MEP TRADES INCLUDING SPRINKLER CONTRACTOR.
23. ALL PIPING LAYOUTS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL INSTALL ALL REQUIRED OFFSETS AND TRANSITIONS TO PREVENT INTERFERENCE WITH FIELD CONDITIONS AND TO COORDINATE WITH OTHER TRADES AT NO COST TO THE OWNER.
24. ALL REQUIRED OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE COORDINATED BY THE CONTRACTOR USING ENGINEER AND ARCHITECT REVIEWED & APPROVED EQUIPMENT SHOP DRAWINGS.
25. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL PANELS, TRANSFORMERS, OR ELEVATOR MACHINE ROOM EQUIPMENT. CONTRACTOR SHALL COORDINATE PIPING AND DUCTWORK WITH ELECTRICAL EQUIPMENT IN FIELD AS PART OF COORDINATION DRAWINGS.
26. WHEN ROOF ACCESS IS REQUIRED, CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT THE ROOF WARRANTY DURING THE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ROOF DAMAGE AND SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
27. CONTRACTOR SHALL TAKE ALL NECESSARY MEANS TO ENSURE THAT EXISTING STRUCTURES, UTILITIES OR OTHER SITE IMPROVEMENTS ARE NOT DAMAGED, UNDERMINED OR OTHERWISE ALTERED/ INTERRUPTED.
28. UTILITY DEPICTIONS ARE APPROXIMATE ONLY, AND MAY NOT DEPICT ALL UTILITIES PRESENT IN THE AREA. CONTRACTOR IS RESPONSIBLE FOR UTILITY MARK-OUT, AND SHALL EXERCISE APPROPRIATE CAUTION TO PREVENT INJURY, ACCIDENT, SPILLS, OTHER EMERGENCIES, PROJECT DELAYS OR SITE UTILITY INTERRUPTIONS.
29. RESTORE ALL DISTURBED AREAS TO EXISTING GRADE AND CONDITIONS UNLESS OTHERWISE NOTED. PROVIDE ADDITIONAL TOP SOIL AS NEEDED TO PROPERLY ESTABLISH GRASS/LAWN AREA WHERE APPLICABLE.
30. SAW CUT BITUMINOUS PAVEMENT, CURBING AND SIDEWALK WHERE EXISTING IS DISTURBED.
31. EXISTING CONDITIONS ARE BASED ON VISIBLE FIELD CONDITIONS AND REVIEW OF ORIGINAL CONSTRUCTION PLANS. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING A BID.
32. CONTRACTOR SHALL COORDINATE WITH OWNER CONCERNING LOCATION OF CONTRACTOR PARKING AND STAGING.
33. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE FOUNDATIONS OF BUILDINGS WILL NOT BE UNDERMINED INCLUDING BUT NOT LIMITED TO MAINTAINING "OSHA REQUIRED" SLOPES AND/OR INSTALLATION OF SHEETING.
34. AT A MINIMUM, IN ORDER TO LIMIT ACCESS TO THE CONSTRUCTION SITE BY UNAUTHORIZED PERSONS, THE ENTIRE WORK AREA SHALL BE ENCLOSED WITH A TEMPORARY 6' HIGH CHAIN LINK FENCE FOR THE ENTIRE DURATION OF THE PROJECT. WHEN THE 6' CHAIN LINK FENCE IS REMOVED TO FACILITATE CONSTRUCTION ACTIVITIES, PROVIDE A 4' HIGH CONSTRUCTION FENCE TO PREVENT ANY UNAUTHORIZED PERSONS FROM ENTERING THE WORK SITE. AT THE COMPLETION OF DAILY WORK ACTIVITIES, THE 6' CHAIN LINK FENCE SHALL BE REPOSITIONED AS SHOWN ON THE PLAN. ALL VEHICLES, STOCKPILED MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE SAFELY STORED WITHIN THE CHAIN LINK FENCE.
35. THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS FOR THE 2015 CONNECTICUT STATE BUILDING CODE, EXCEPT AS AMENDED, ALTERED OR DELETED BY THE ADDITIONAL PROVISIONS IN THE CONNECTICUT SUPPLEMENT.

1. CLEAN AND REMOVE EXISTING 6,000 GALLON UST PER SPECIFICATIONS. CONTRACTOR TO ASSIST ENGINEER WITH SOIL COLLECTION. BACKFILL GRAVE UPON PERMISSION OF THE ENGINEER. NOTIFY THE FIRE MARSHAL OF REMOVAL AT LEAST 72 HOURS PRIOR.
2. PERFORM SITE MODIFICATIONS, INCLUDING NEW OUTDOOR FUEL PIPING AND PRECAST PAD INSTALLATION TO RECEIVE NEW AST (SEE CIVIL DRAWINGS).
3. INSTALL INTERIOR PIPING UP TO THE EXISTING CONNECTION. MAINTAIN BOILER FUEL SUPPLY FROM TEMPORARY TANK.
4. INSTALL NEW INDOOR SYSTEM EQUIPMENT, INCLUDING NEW ATG AND OVERFILL ALARM. RECONNECT TO EXISTING TEMPORARY FUEL TANK
5. INSTALL NEW AST.
6. TRANSFER FUEL SUPPLY TO NEW FUEL TANK. TEST AND COMMISSION SYSTEM.
7. REMOVE TEMPORARY FUEL TANK AND ASSOCIATED PIPING IN COORDINATION WITH OWNER.

ONE WEEK PRIOR TO ANY SITE WORK THE CONTRACTOR SHALL CALL "CALL-BEFORE-YOU-DIG" 1-800-922-4455. SITE WORK SHALL NOT PROCEED UNLESS ALL UTILITIES ARE CLEARLY MARKED. IF MARKINGS ARE DISTURBED BEFORE SITE WORK IS PERFORMED CONTRACTOR SHALL TAKE EVERY MEASURE NECESSARY TO MAINTAIN INFORMATION CONCERNING LOCATION OF EXISTING UTILITIES TO ENSURE THAT THE UTILITIES ARE NOT DAMAGED.

[illegible]

SCALE:	HORZ.:	NTS
	VERT.:	
DATUM:		
	HORZ.:	
	VERT.:	



GRAPHIC SCALE

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HARWINTON	REGIONAL SCHOOL DISTRICT 10
GENERAL NOTES	
HARWINTON CONSOLIDATED SCHOOL UST REPLACEMENT	
HARWINTON	CONNECTICUT

PROJ. No.: 20241534.A11
DATE: 06/9/2025

G-002

STATE PROJECT NO: 210-0037CV/OT PERMIT SET



SCALE: 1" = 200'

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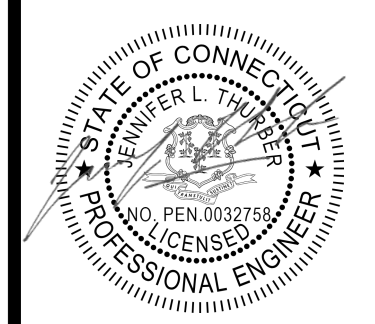
REGIONAL SCHOOL DISTRICT 10

SITE LOGISTICS PLAN

HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT

PROJ. No.: 20241534.A11
DATE: 06/9/2025

L-100

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SCALE: HORIZ.: 1" = 200'

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VERT.: -

0 100' 200' 400'

GRAPHIC SCALE

GENERAL

- ### WORK RESTRICTIONS

- ## REGULATORY REQUIREMENTS

- ## EROSION AND SEDIMENT CONTROL

- DEMOLITION

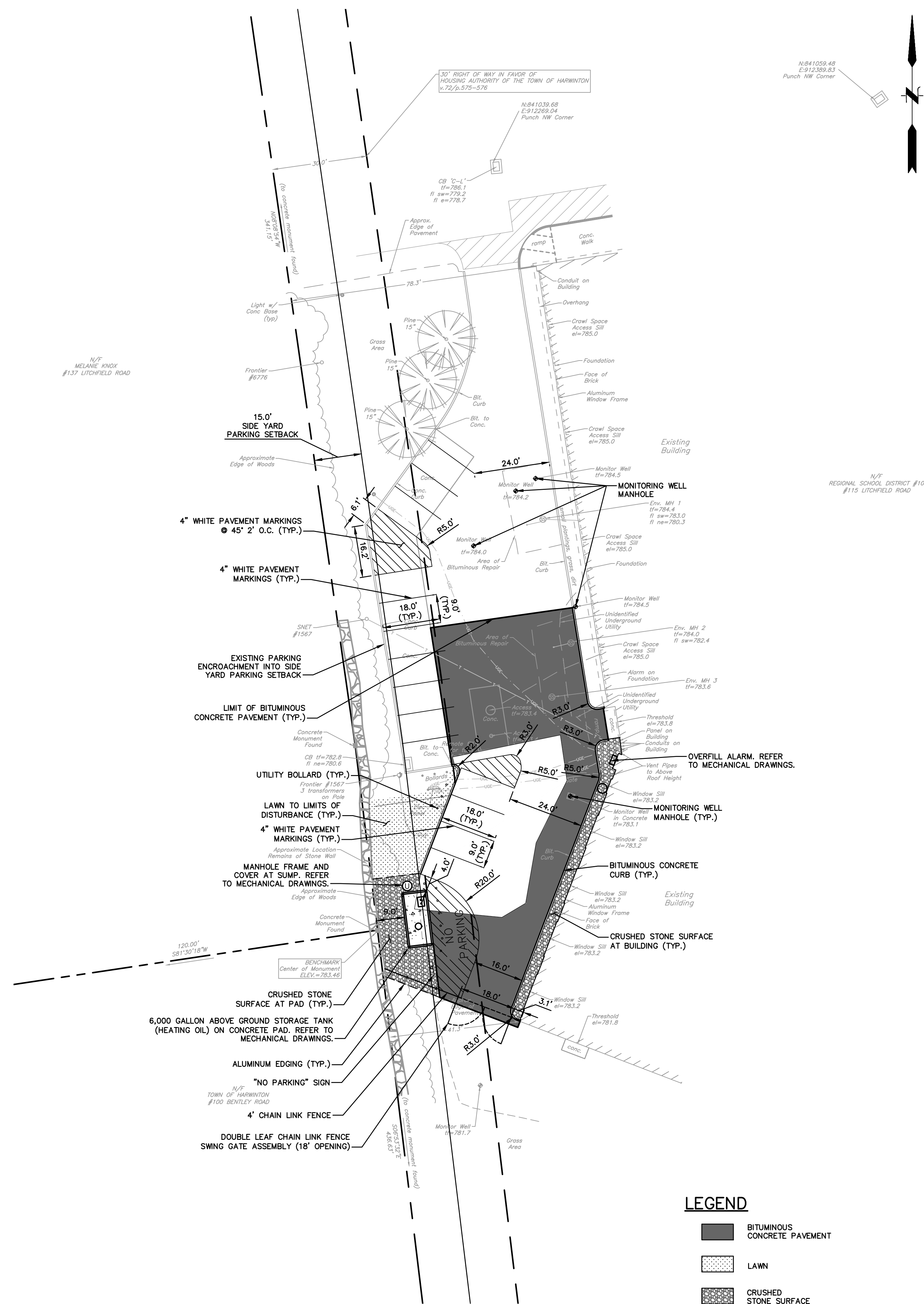
- ## CONSTRUCTION LAYOUT

- ## EARTHWORK

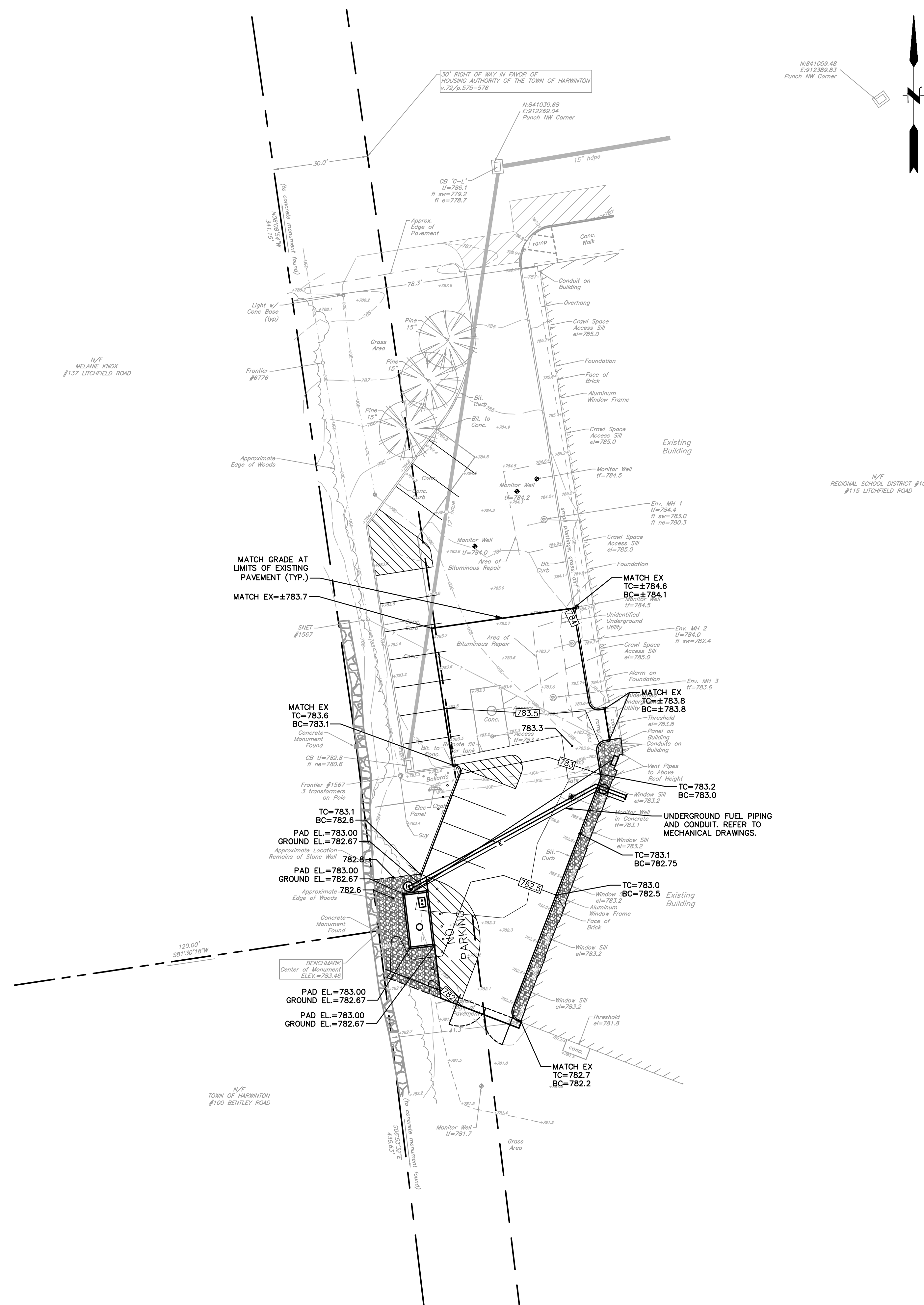
- ## UTILITIES

- ## SITE RESTORATION

- STATE PROJECT NO: 210-0037CV/OT PERMIT SET



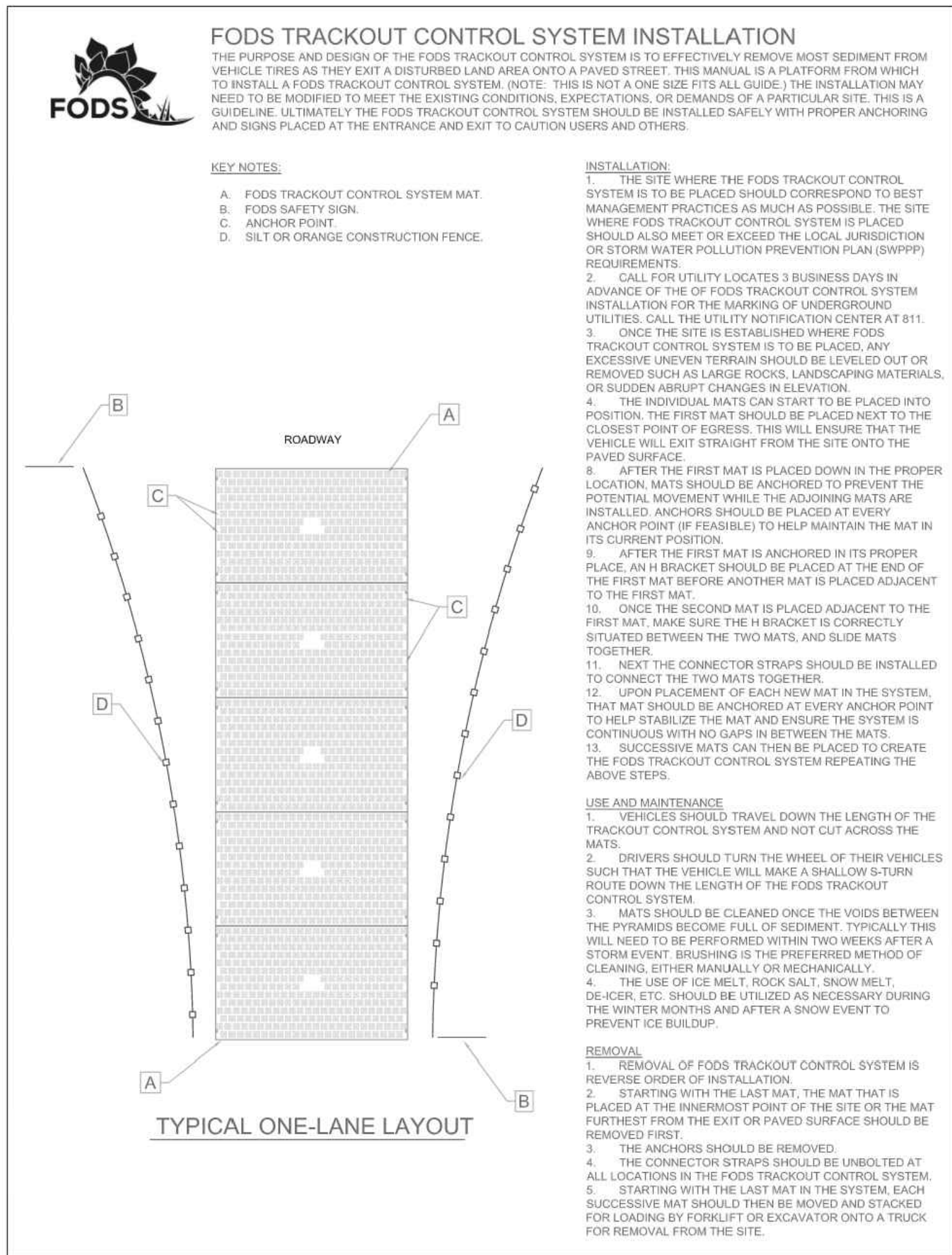
SITE LAYOUT PLAN
SCALE: 1" = 20'



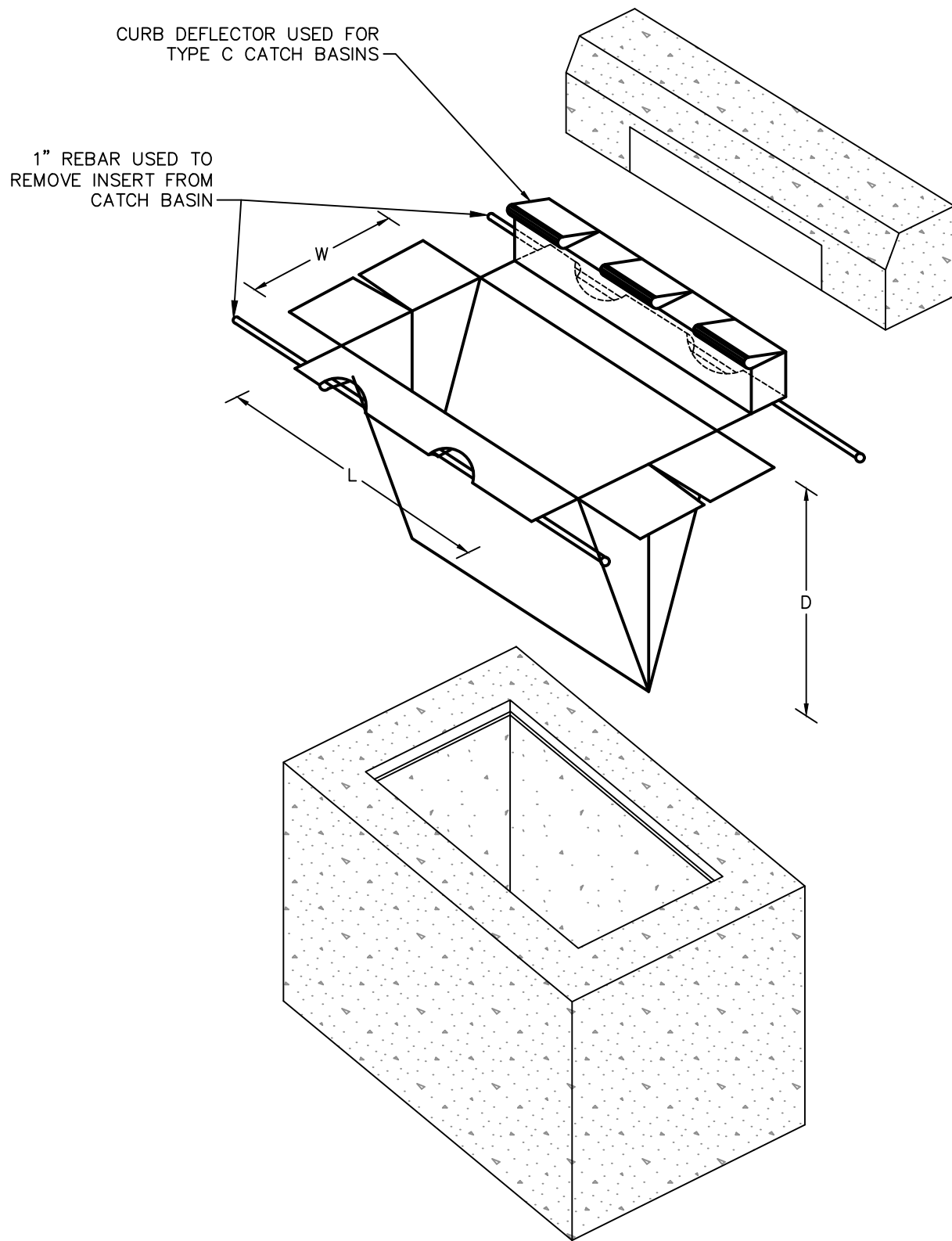
SITE GRADING PLAN
SCALE: 1" = 20'

STATE PROJECT NO: 210-0037CV/OT PERMIT SET

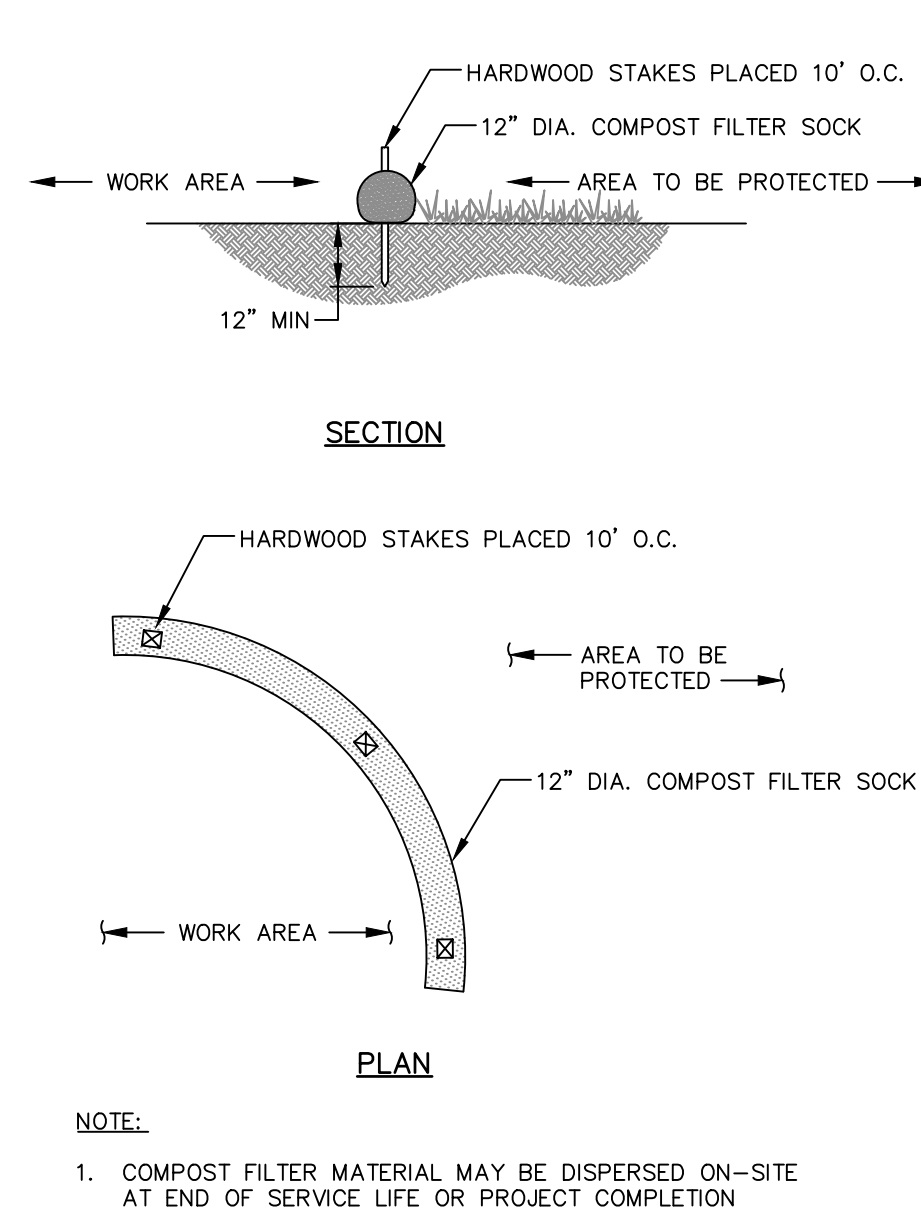
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MANUFACTURED TEMPORARY TRACKING PADS
NOT TO SCALE



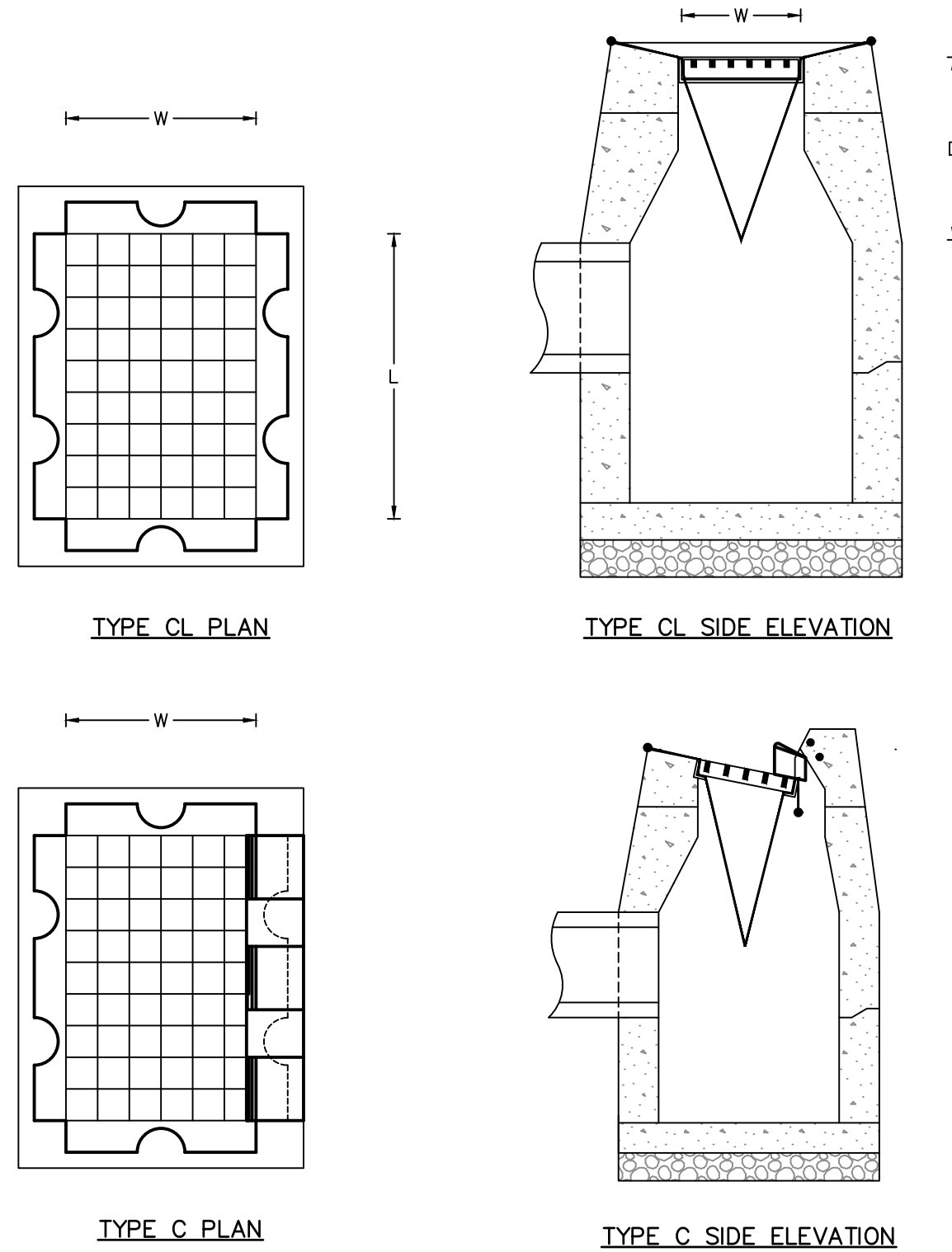
SILT SACK CATCH BASIN INSERT
NOT TO SCALE



NOTE:

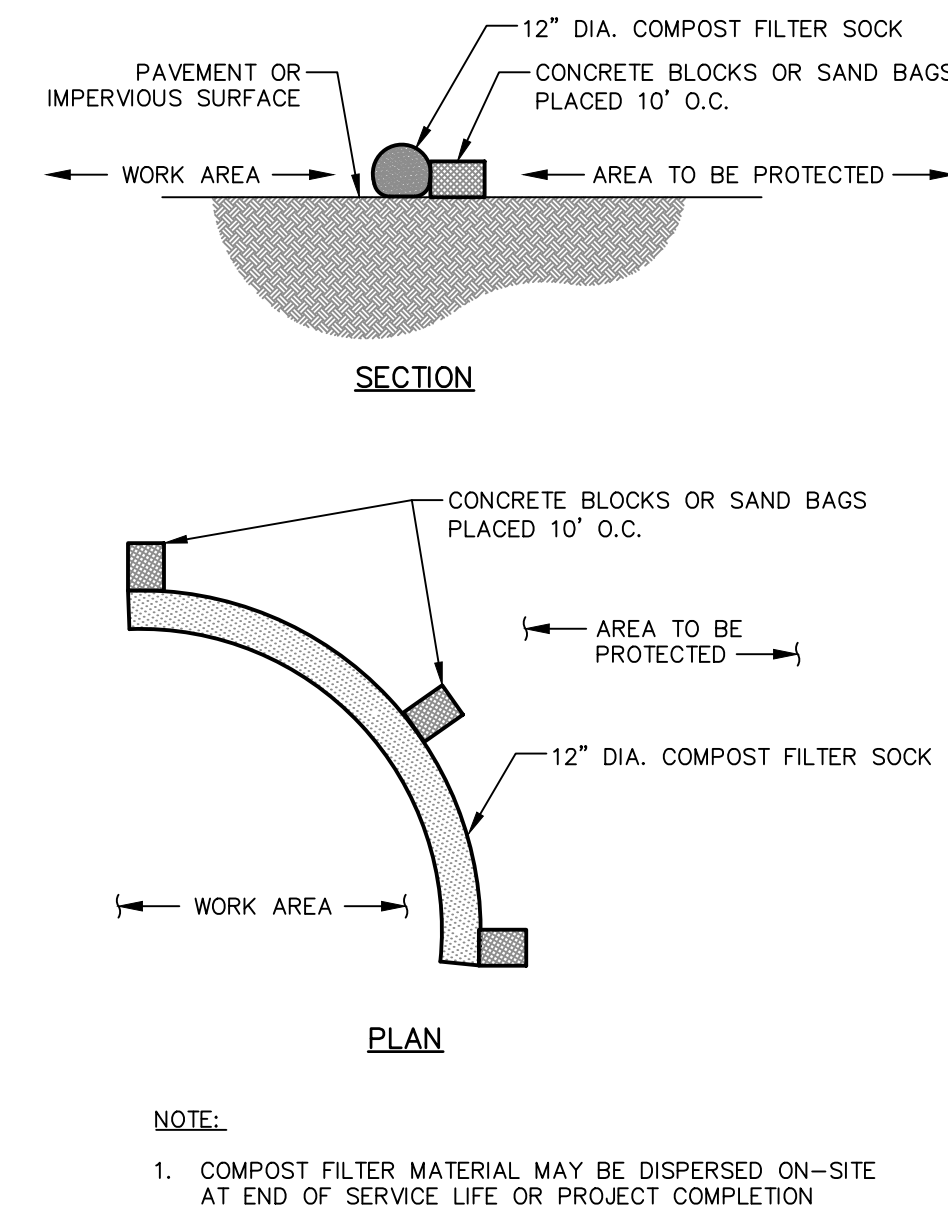
- COMPOST FILTER MATERIAL MAY BE DISPERSED ON-SITE AT END OF SERVICE LIFE OR PROJECT COMPLETION

COMPOST FILTER SOCK ON SOIL
NOT TO SCALE



EROSION & SEDIMENT CONTROL NOTES

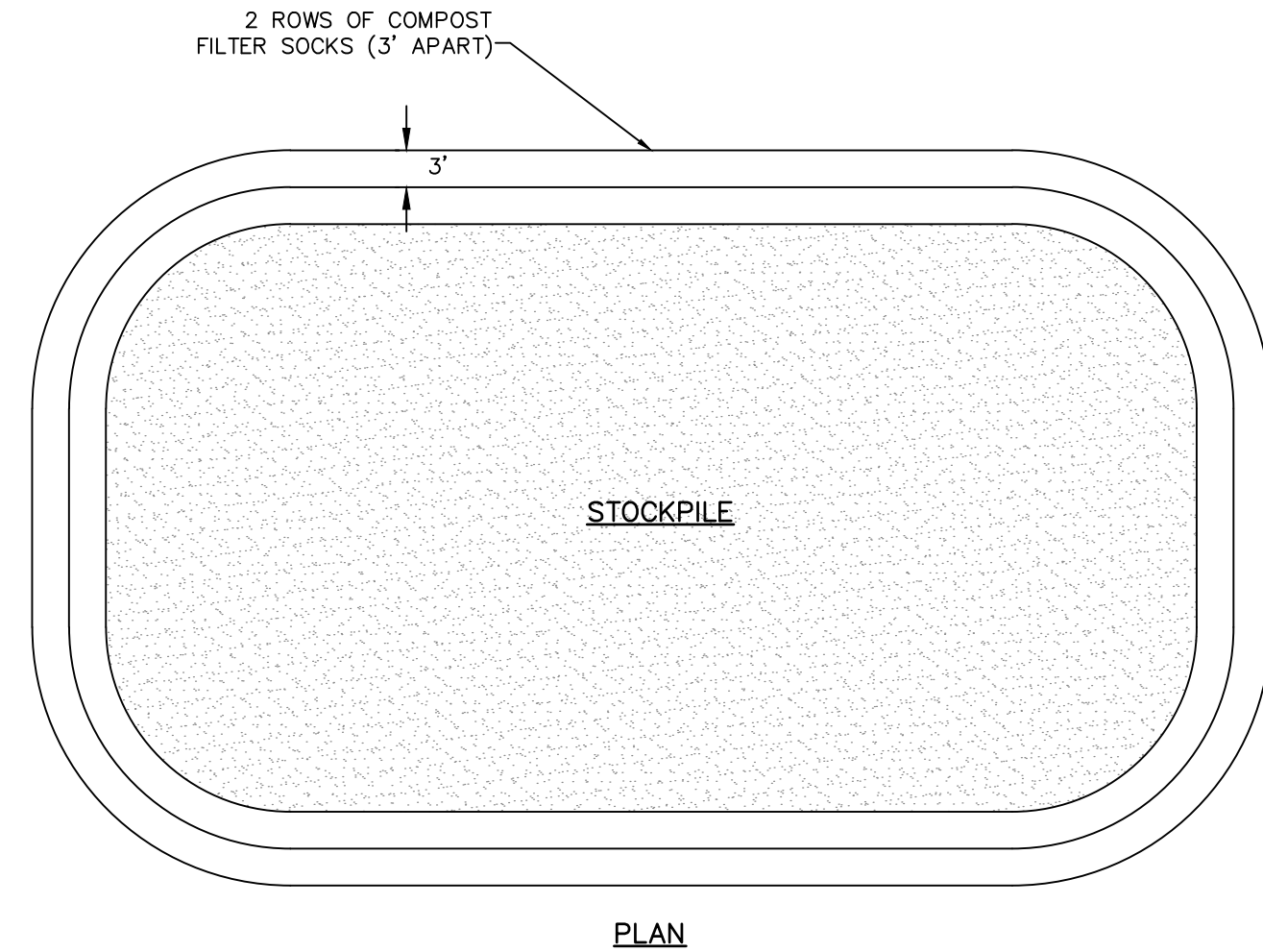
- CONSTRUCTION STANDARDS** – CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
- PLAN IMPLEMENTATION** – IMPLEMENT THIS EROSION AND SEDIMENT CONTROL PLAN. THIS IMPLEMENTATION INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES UNTIL PERMANENT STABILIZATION IS ACHIEVED, INFORMING ALL SUBCONTRACTORS OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER MUNICIPAL AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN TO THE NEW OWNER IF THE TITLE OF THE LAND IS TRANSFERRED PRIOR TO ACHIEVING PERMANENT STABILIZATION.
- INSTALLATION SCHEDULE** – INSTALL THE CONSTRUCTION ENTRANCE BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE PROJECT AREA BEGINS. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO STUMP REMOVAL AND CONSTRUCTION. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE OWNER, HIS AGENTS OR AGENTS OF THE MUNICIPALITY.
- FUGITIVE DUST** – CONTROL FUGITIVE DUST USING WATER SPRAYS OR CALCIUM CHLORIDE ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.
- CATCH BASINS** – PROTECT CATCH BASINS WITH PROPER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- STOCKPILES** – ENCIRCLE STOCKPILES OF ERODIBLE SOIL WITH A STRAW BALE OR SILT FENCE BARRIER. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE FORMED.
- TOE OF SLOPE** – ESTABLISH AN EROSION CONTROL BARRIER (SILT FENCE OR STRAW BALE BARRIER) APPROXIMATELY 5 TO 10 FEET FROM THE PROPOSED TOE OF THE CUT OR FILL AREA PRIOR TO BEGINNING EARTHWORK.
- SEDIMENT REMOVAL** – SEDIMENT REACHING ½ THE HEIGHT OF THE EROSION CONTROL BARRIER SHALL BE REMOVED. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.
- SOIL STABILIZATION SCHEDULE** – APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE. APPLY TEMPORARY SOIL STABILIZATION MEASURES IF FINAL GRADING IS TO BE DELAYED MORE THAN 30 DAYS.
- TEMPORARY SEEDING** – TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY 10-10-10 FERTILIZER AT A RATE OF 7 ½ LBS/1000 SQ. FT. APPLY PERENNIAL RYE GRASS AT A RATE OF 2 LBS/1000 SQ. FT. TO A DEPTH OF ½ INCH. OPTIMUM SEEDING DATES ARE MARCH 15 TO JULY 1 AND AUGUST 1 TO OCTOBER 15. MULCH FOR SEED APPLIED WITHIN THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 80%-95% SOIL COVERAGE. MULCH FOR SEED APPLIED OUTSIDE OF THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 95%-100% COVERAGE.
- PERMANENT SEEDING** – SEED PERMANENT LAWN AREAS IN ACCORDANCE WITH THE SPECIFICATIONS.
- INSPECTION** – SECURE THE SERVICES OF A SOIL SCIENTIST, PROFESSIONAL ENGINEER, OR QUALIFIED INSPECTOR TO VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED AND MAINTAINED. THESE INSPECTIONS SHALL BE NOT LESS FREQUENTLY THAN WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM HAVING A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. FOLLOWING THESE INSPECTIONS, A WRITTEN REPORT SHALL BE PREPARED, INFORMING THE OWNER OR HIS AGENT NOT LESS FREQUENTLY THAN WEEKLY OF OBSERVATIONS, MAINTENANCE, AND CORRECTIVE ACTIVITIES UNDERTAKEN.



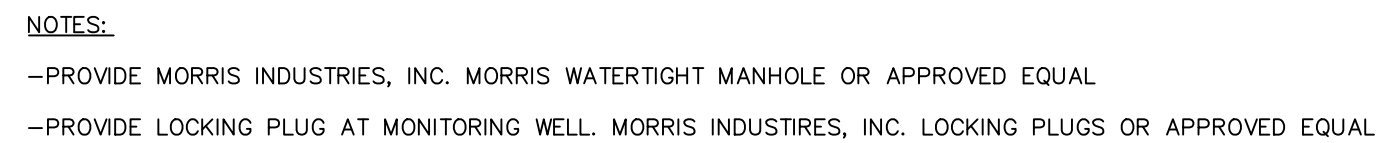
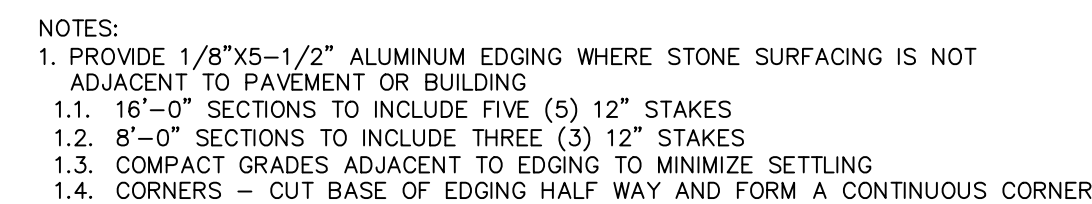
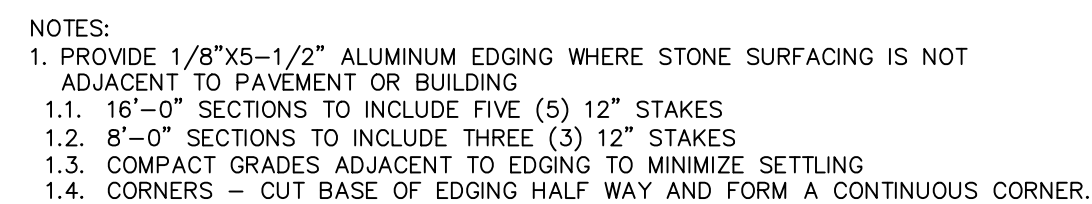
NOTE:

- COMPOST FILTER MATERIAL MAY BE DISPERSED ON-SITE AT END OF SERVICE LIFE OR PROJECT COMPLETION

COMPOST FILTER SOCK ON PAVEMENT
NOT TO SCALE



TEMPORARY SOIL STOCKPILE
NOT TO SCALE



MONITORING WELL MANHOLE
NOT TO SCALE



- NOTES:**
1. FOOTING DESIGN TO BE CHECKED BY AN ENGINEER FOR WIND LOADS IF SLATS ARE USED OR IF POOR SOIL CONDITIONS EXIST.
 2. STRAIGHT RUNS BETWEEN BRACED POSTS SHALL NOT EXCEED 500 FT.
 3. FENCE DETAILS ARE INTENDED AS A GUIDE ONLY. ALL FENCE MATERIALS AND CONSTRUCTION METHODS SHALL BE APPROVED BY THE ENGINEER AND FENCE MANUFACTURER.

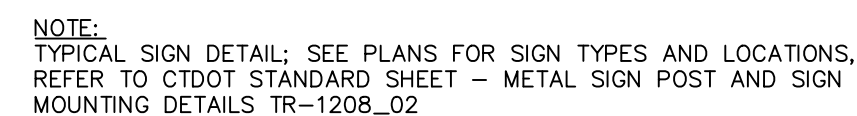
CHAIN LINK FENCE LEGEND

- (1) 1 5/8" O.D. TOP RAIL ATTACH FABRIC WITH 9 GAUGE WIRE CLIP EVERY 24"
- (2) INTERMEDIATE POST

<u>FENCE HEIGHT</u>	<u>ROUND POST</u>
6 FEET AND LESS	1.9"

ATTACH TO C.L. FABRIC WITH CLIPS EVERY 15"
- (3) END OR CORNER POST

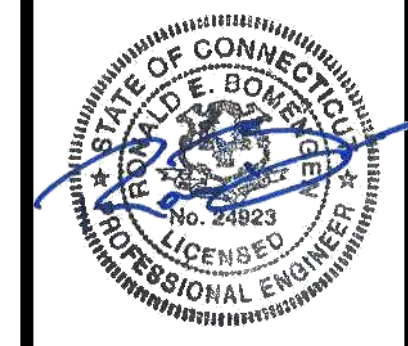
<u>FENCE HEIGHT</u>	<u>ROUND POST</u>
6 FEET AND LESS	2-3/8"
- (4) 6 GAUGE BOTTOM TENSION WIRE ATTACH TO FABRIC WITH HOG RING AT 24" C.C.
- (5) TENSION ROD ATTACHED TO END OR CORNER POST
- (6) CONCRETE FOOTING 36" DEEP WITH 12" DIA. AT END POST AND 10" DIA. AT INTERMEDIATE POST. HOLE CORE IN UNDISTURBED OR COMPACTED SOIL.
(SEE NOTE NO. 1)
- (7) FABRIC SELVAGE:
RECREATIONAL FENCING, REGARDLESS OF HEIGHT, SHALL BE KNUCKLED TOP AND BOTTOM
- (8) 9 GAUGE 2" WIRE MESH FABRIC. GALVANIZED FINISH.



SIGN
NOT TO SCALE



- ### CHAIN LINK DOUBLE LEAF SWING GATE LEGEND
- | | |
|---|--|
| ① | 2" DIA. FRAME WELDED TO FORM FOUR SIDES OF LEAF |
| ② | 2" DIA. UPRIGHT BRACING WELDED TO FRAME |
| ③ | 2" DIA. HORIZONTAL BRACING WELDED TO FRAME |
| ④ | TENSION BAR ATTACHED TO FRAME ON ALL FOUR SIDES WITH HOOK BOLTS |
| ⑤ | PADLOCK AND LATCH DEVICE |
| ⑥ | 12" DIA. x 12" DEEP CONC. COLLAR WITH STEEL PIPE FOR SET PIN. COLLAR AND PIPE SET FLUSH WITH PAVEMENT. PIPE TO DRAIN INTO GRAVEL BASE. |
| ⑦ | 9 GAUGE 2" WIRE MESH FABRIC, GALVANIZED FINISH. |
| ⑧ | HINGE POST FOOTING SHALL BE 3000 PSI CONCRETE. DIAMETER SHALL BE 4 TIMES POST WIDTH (MIN.) |



SCALE:	
HORZ.: NOT TO SCALE	
VERT.:	
DATE:	
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VERT.: =	

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REGIONAL SCHOOL DISTRICT 10

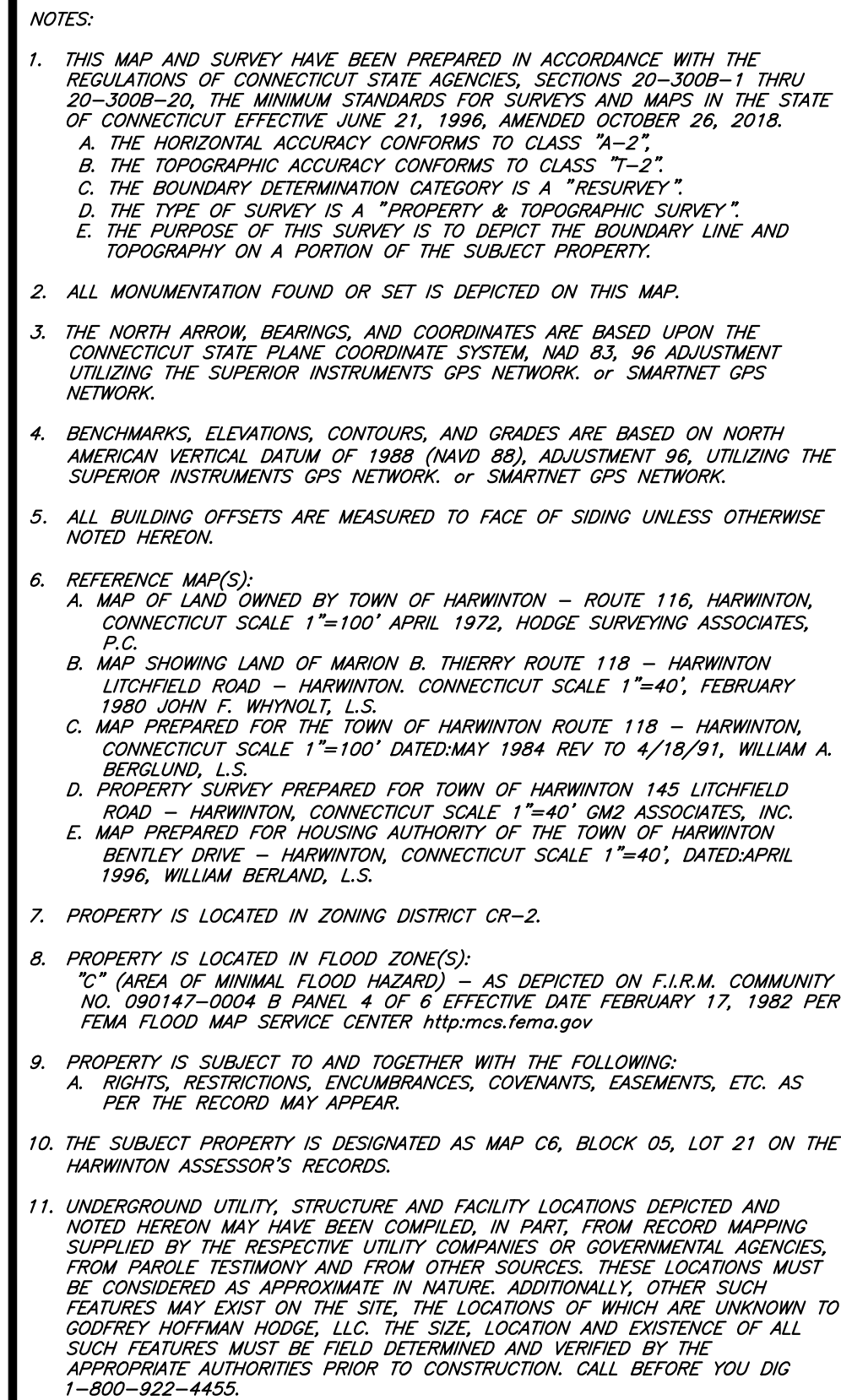
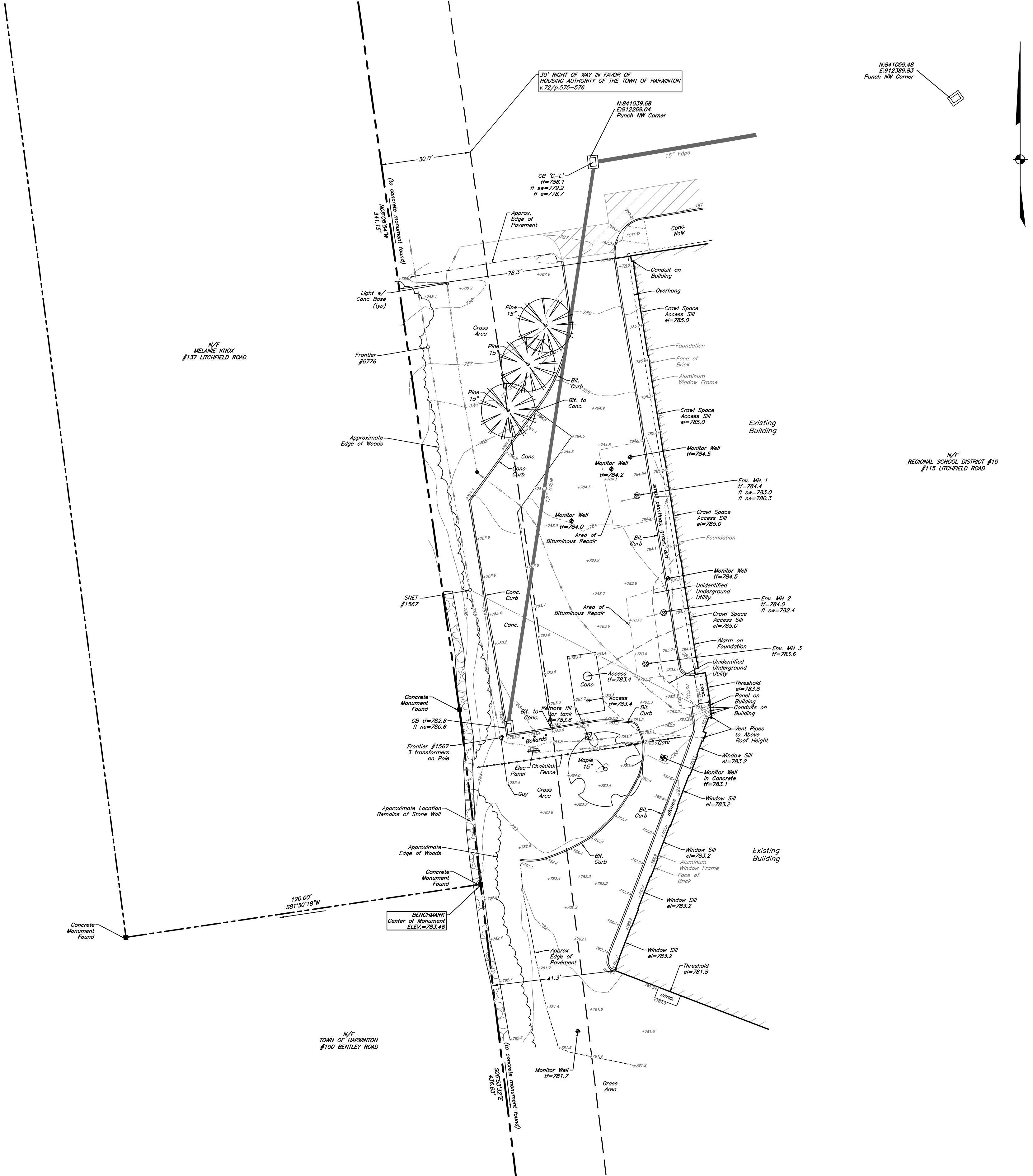
CONSTRUCTION DETAILS

HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT

CONNECTICUT

PROJ. No.: 20241534.A11
DATE: 06/9/2025

C-502



ALL WORK, LABOR, AND MATERIALS TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND LAWS WHICH SHALL TAKE PRECEDENCE OVER THESE DRAWINGS IN THE EVENT OF ERRORS AND/OR OMISSIONS HEREIN.

THE WORD "CERTIFY" OR "DECLARE" IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE LAND SURVEYOR, AND/OR ENGINEER, WHICH IS BASED ON THEIR BEST KNOWLEDGE, INFORMATION AND BELIEF, AS SUCH IT CONSTITUTES NEITHER A GUARANTEE OR WARRANTY.

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1	04/15/25	rev "SAL" to "ENV" on 3 manholes
NO.	DATE	DESCRIPTION

REVISIONS

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PROPERTY & TOPOGRAPHIC SURVEY
PREPARED FOR
REGIONAL SCHOOL DISTRICT #10
HARWINTON CONSOLIDATED SCHOOL
115 LITCHFIELD ROAD
HARWINTON, CONNECTICUT



DRAWN BY: KRG
CHECKED BY: AH
DATE: 03-12-2025
SCALE: 1"=20'
PROJECT: 25-024_H
DRAWING:

GODFREY HOFFMAN
HODGE, LLC

PROFESSIONAL LAND SURVEYORS & CIVIL ENGINEERS
26 BROADWAY NORTH HAVEN, CT 06473; TEL. 203.239.4217 - WWW.GODFREYHOFFMAN.COM
1783 FARMINGTON AVENUE, UNIONVILLE, CT 06085; TEL. 860.673.0444 - WWW.HODGELLC.COM

V-101

GENERAL NOTES

- THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
2. ALL CONTRACTORS SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS INCLUDING PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATION AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL ENGINEERING.
3. THE INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC, INDICATING THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT, AND THEIR ASSOCIATED ACCESS AREAS, WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED BY INSTALLATION BY ANY CONTRACTOR SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS, OR BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS. FOR EACH CONFLICT, CONTRACTOR SHALL CARRY THE MORE EXPENSIVE OR LARGER QUANTITY OPTION.
5. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING EQUIPMENT LOCATIONS IN THE FIELD, AND SHALL ADVISE THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
7. ALL WORK SHALL CONFORM TO ALL APPLICABLE CURRENT BUILDING CODES, RULES, REGULATIONS AND ORDINANCES, INCLUDING THE ONES WRITTEN BY:
 - 7.1. REGULATORY AUTHORITIES HAVING JURISDICTION.
 - 7.2. OWNER'S INSURANCE CARRIER.
8. CONTRACTOR SHALL SECURE ALL PERMITS AND APPLICATIONS AND PAY ALL FEES PERTAINING TO THE CONTRACT.
9. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS WITH CODE OR MANUFACTURER-REQUIRED ACCESS SPACES. IF EQUIPMENT IS INSTALLED IN AN INACCESSIBLE LOCATION THE CONTRACTOR SHALL PROVIDE REQUIRED FIRE-RATED ACCESS DOORS, COORDINATED WITH THE ARCHITECT OR ENGINEER.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
11. EACH CONTRACTOR SHALL COORDINATE THE LOCATION OF THEIR WORK WITH ALL OTHER TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE SYSTEM LAYOUT REQUIRED FOR INSTALLATION SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR TO RESTORE ANY EXISTING SYSTEMS, DEVICES, FINISHES, ETC., THAT ARE DAMAGED OR ALTERED DUE TO THE NEW WORK, TO ACCEPTABLE CONDITION AS DETERMINED BY THE OWNER AND ENGINEER.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SITE SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
14. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.
15. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
17. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
18. CONTRACTORS SHALL PROVIDE SLEEVES AND SEALS FOR ALL PIPING OR CONDUIT THAT PENETRATES WALLS OR FLOOR SLABS.
19. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A LISTED FIRE STOP MATERIAL THAT MEETS ALL OF THE REQUIREMENTS OF THE STATE AND LOCAL BUILDING CODES AND THE LOCAL AUTHORITIES HAVING JURISDICTION. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR. THE FIRE-STOP INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE FIRE-STOPPING SYSTEM MANUFACTURER.
20. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ALL WALL AND FLOOR CORINGS TO STRUCTURAL ENGINEER FOR REVIEW BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO CORINGS INSTALLED, AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
21. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ANY PROPOSED STRUCTURAL MEMBER PENETRATIONS TO THE STRUCTURAL ENGINEER FOR REVIEW AND DETAILING BEFORE INSTALLATION. CONTRACTOR SHALL REPAIR ANY DAMAGE DUE TO PENETRATIONS INSTALLED, AT NO COST TO OWNER. THE DAMAGE REPAIRING SHALL ALSO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
22. CONTRACTOR AND SUBCONTRACTORS SHALL COLLECTIVELY PREPARE TRADE COORDINATION DRAWINGS IN SUFFICIENT DETAIL TO PREVENT TRADE CONFLICTS IN AREAS OF CONGESTED WORK. THE TRADE COORDINATION DRAWINGS SHALL BE BASED ON SHOP DRAWINGS PREPARED BY ALL MEP TRADES INCLUDING SPRINKLER CONTRACTOR.
23. ALL PIPING AND DUCTWORK LAYOUTS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL INSTALL ALL REQUIRED OFFSETS AND TRANSITIONS TO PREVENT INTERFERENCE WITH FIELD CONDITIONS AND TO COORDINATE WITH OTHER TRADES AT NO COST TO THE OWNER.
24. ALL REQUIRED OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE COORDINATED BY THE CONTRACTOR USING ENGINEER AND ARCHITECT REVIEWED & APPROVED EQUIPMENT SHOP DRAWINGS.
25. PROVIDE A VOLUME DAMPER FOR EACH SUPPLY, RETURN, AND EXHAUST AIR TAKE-OFF, AND EVERY DUCT SPLIT OR WYE.
26. PROVIDE A BALANCING VALVE FOR EACH HYDRONIC PIECE OF EQUIPMENT.
27. THE HVAC CONTROL SYSTEM SHALL BE A COMPLETE SYSTEM. EACH HVAC ZONE SHALL BE AT A MINIMUM THERMOSTATICALLY CONTROLLED BY A SENSOR, THERMOSTAT, OR CONTROLLER WHETHER OR NOT ONE IS SHOWN ON THE DRAWINGS.
28. ALL HVAC SYSTEMS SHALL BE TESTED AND BALANCED BY A CERTIFIED (NEBB OR TABB) SUB-CONTRACTOR THAT THE CONTRACTOR CARRIES IN HIS/HER BID PRICE.
29. NO PIPING OR DUCTS SHALL BE INSTALLED OVER ELECTRICAL PANELS, TRANSFORMERS, OR ELEVATOR MACHINE ROOM EQUIPMENT. CONTRACTOR SHALL COORDINATE PIPING AND DUCTWORK WITH ELECTRICAL EQUIPMENT IN FIELD AS PART OF COORDINATION DRAWINGS.
30. PROVIDE SPRING ISOLATED & SEISMICALLY RATED HANGERS FOR EQUIPMENT, DUCTS, AND PIPING ACCORDING TO THE VIBRATION ISOLATION SCHEDULE. INCLUDE DETAILS AND LOCATIONS ON COORDINATION DRAWINGS.
31. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT LOW POINTS.
32. PROVIDE CODE-REQUIRED LIFE/SAFETY DAMPERS FOR EACH DUCT PENETRATION OF RATED CONSTRUCTION.
33. WHEN ROOF ACCESS IS REQUIRED, CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT THE ROOF WARRANTY DURING THE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ROOF DAMAGE AND SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
34. HYDROSTATIC TESTING SHALL BE PERFORMED ON ALL EQUIPMENT AND PIPING THAT IS SUBJECTED TO PRESSURES ABOVE AMBIENT. THE MECHANICAL CONTRACTOR SHALL DEVELOP A TEST SEQUENCE AND PHASES BASED UPON THE SYSTEM DESIGN, THE SYSTEM COMPONENTS THAT REQUIRE TESTING, AND THE CONSTRUCTION SEQUENCE OF THOSE COMPONENTS. THE CONTRACTOR SHALL PROVIDE THIS TEST SEQUENCE TO THE OWNER AND ENGINEER FOR REVIEW. THE CONTRACTOR SHALL GIVE THE ENGINEER AND OWNER 48 HOURS NOTICE BEFORE PERFORMING ANY SYSTEM COMPONENT PRESSURE TEST. THE CONTRACTOR SHALL NOT USE A COMPRESSIBLE FLUID, SUCH AS COMPRESSED AIR, FOR THE HYDROSTATIC TESTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER AND OWNER THAT THE PRESSURE TEST EQUIPMENT, INCLUDING PRESSURE SENSORS AND GAGES, HAS BEEN CALIBRATED BEFORE USE. THE CONTRACTOR SHALL ISOLATE ALL EQUIPMENT AND PIPING THAT IS NOT UNDERGOING TESTING USING FLANGES OR CAPS, NOT SHUTOFF VALVES. REFER TO SPECIFICATION SECTION 23-21-13 FOR HYDROSTATIC PRESSURE TEST DETAILS.

RENOVATION

THIS PROJECT IS A RENOVATION OF AN EXISTING FACILITY.

BEFORE SUBMITTING HIS BID THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.

IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.

NO EQUIPMENT, PIPING, OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.

PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS.

RELOCATE EXISTING EQUIPMENT, PIPING, WIRING AND RELATED SYSTEMS AS REQUIRED FOR CONSTRUCTION. ALL EXISTING SYSTEMS TO BE FULLY OPERATIONAL, INCLUDING RECONNECTION TO SERVICES AND UPGRADED SYSTEMS. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.

PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.

INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER FOR PHASING REQUIREMENTS.

REBALANCE EXISTING AIR AND WATER SYSTEMS ASSOCIATED WITH RENOVATIONS, INCLUDING ALL RENOVATED AREAS AND ALL AREAS AFFECTED BY SYSTEM MODIFICATIONS.

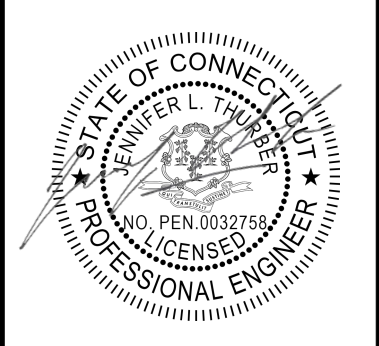
ALL EXISTING EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED SHALL BE FIELD
VERIFIED FOR EXACT QUANTITY.

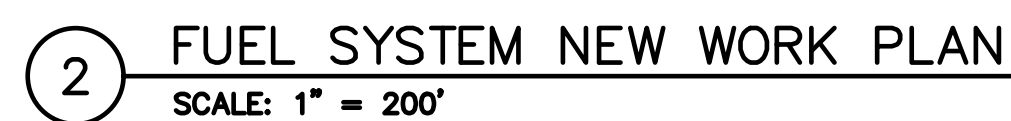
MECHANICAL ABBREVIATIONS

AE	AIR ELIMINATOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BD	BACKDRAFT DAMPER
CBF	CARBON FILTER
CF	CIRCULATING FAN
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
CPU	CENTRAL PROCESSING UNIT
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWRR	CHILLED WATER RETURN
DDC	DIRECT DIGITAL CONTROL
EF	EXHAUST FAN
EXPT	EXPANSION TANK
FCFU	CO2 PURGING FAN/CARBON FILTER UNIT
FLR	FLOOR
GPM	GALLON PER MINUTE
GV	GRAVITY VENT
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWRR	HOT WATER REVERSE RETURN
LCD	LIQUID CRYSTAL DISPLAY
M	MOTORIZED DAMPER
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
P	PUMP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RGV	ROOF GRAVITY VENTILATOR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SFT	SHOT FEEDER TANK
TCU	TEMPERATURE CONTROL UNIT
TDV	TRIPLE DUTY VALVE
TYP	TYPICAL
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
TCC	TEMPERATURE CONTROLS CONTRACTOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
ZD	ZONE DAMPER

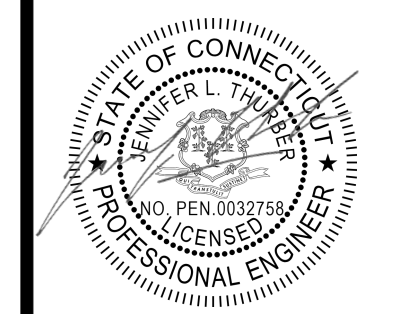
MECHANICAL SYMBOL LEGEND

	BALL VALVE
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	BALANCE VALVE
	O.S. & Y VALVE
	CHECK VALVE
	HOSE BIB WITH VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	FLOW SWITCH
	STRAINER
	AIR VENT
	PIPE UP
	PIPE DOWN
	TEE DOWN
	TEE
	UNION
	VIBRATION ISOLATOR
	ONE WAY CEILING DIFFUSER
	TWO WAY CEILING DIFFUSER
	TWO WAY CEILING DIFFUSER (CORNER)
	THREE WAY CEILING DIFFUSER
	FOUR WAY CEILING DIFFUSER
	CEILING RETURN GRILLE (TYPICAL)
	CEILING LINEAR SLOT DIFFUSER
	22° DUCT ELBOW
	45° DUCT ELBOW
	90° ROUND DUCT ELBOW
	90° MITERED DUCT ELBOW
	45° BRANCH DUCT TAKEOFF
	FLEX DUCT CONNECTION
	FIRE DAMPER
	VOLUME DAMPER
	PRESSURE GAUGE WITH VALVE
	THERMOMETER
	CO SENSOR
	CO2 SENSOR
	SPACE AIR TEMPERATURE SENSOR
	RELATIVE HUMIDITY SENSOR
	TEMP CONTROLLER (HEAT/COOL) BY EQUIP MFGR
	VARIABLE FREQUENCY DRIVE
	AUTOMATIC TEMPERATURE CONTROLS PANEL
	DUCT TYPE SMOKE DETECTOR





1. PROTECT EXISTING UTILITIES TO REMAIN. SEE SURVEY DRAWING V-101.
2. SEE CIVIL DRAWINGS FOR PAVEMENT AND PARKING MODIFICATIONS.

[illegible]

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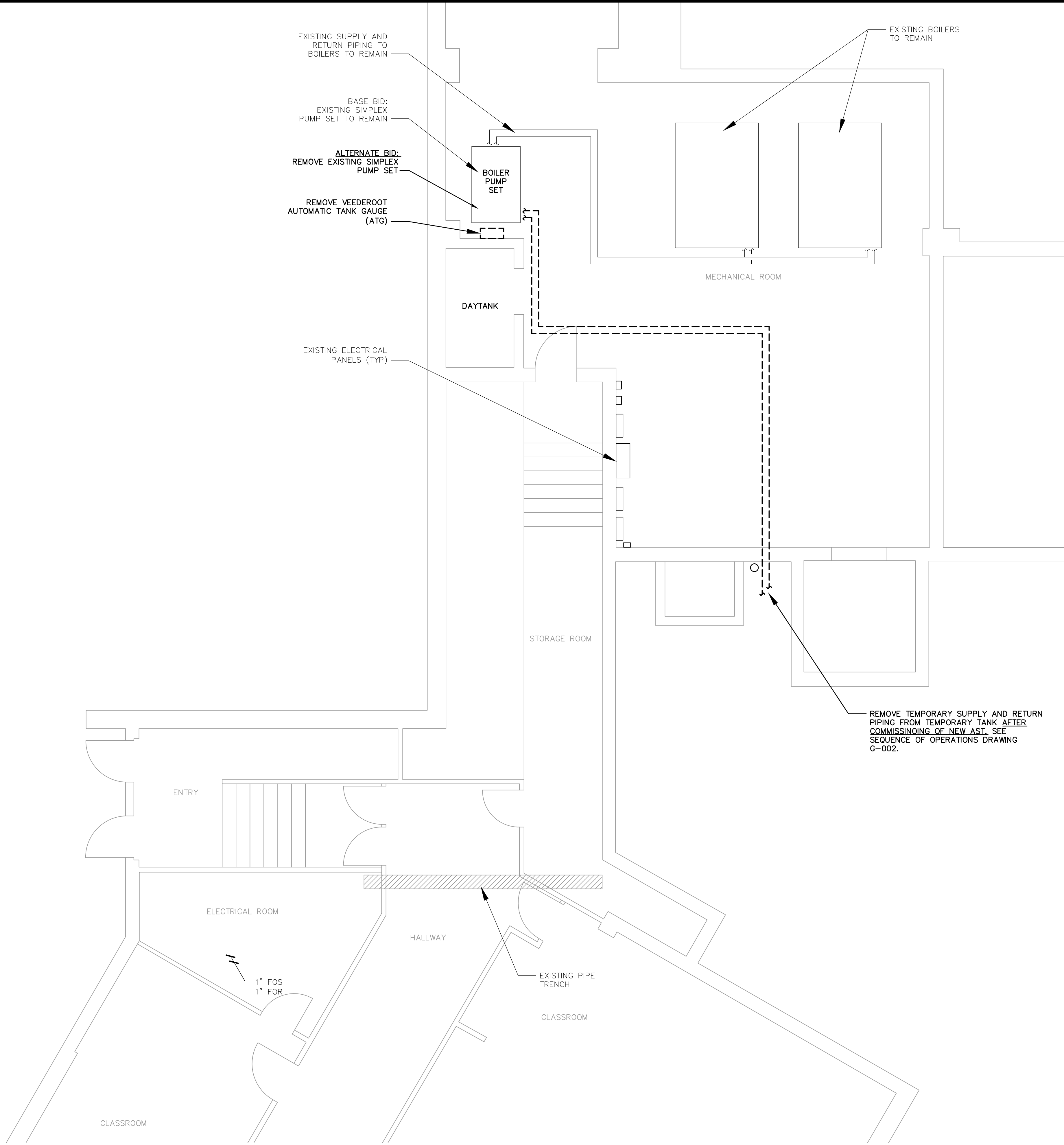
REGIONAL SCHOOL DISTRICT 10 MECHANICAL DEMOLITION AND NEW WORK SITE PLAN HARWINTON CONSOLIDATED SCHOOL UST REPLACEMENT

PROJ. No.: 20241534.A11
DATE: 06/9/2025

MS-100

File: J:\DWG\2024\1534\11MEP\Mechanical\2024\1534.A11_M101.dwg Layout: MD-101 Plotted: 2025-06-09 12:09 PM Saved: 2025-06-09 12:00 PM User: Caitlin.Abel
MS VIEW: PC3: AUTOCAD PDF (GENERAL DOCUMENTATION) PC3: STB/CTB: FO STB LAYER STATE:

1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



1 KEY PLAN
NOT TO SCALE

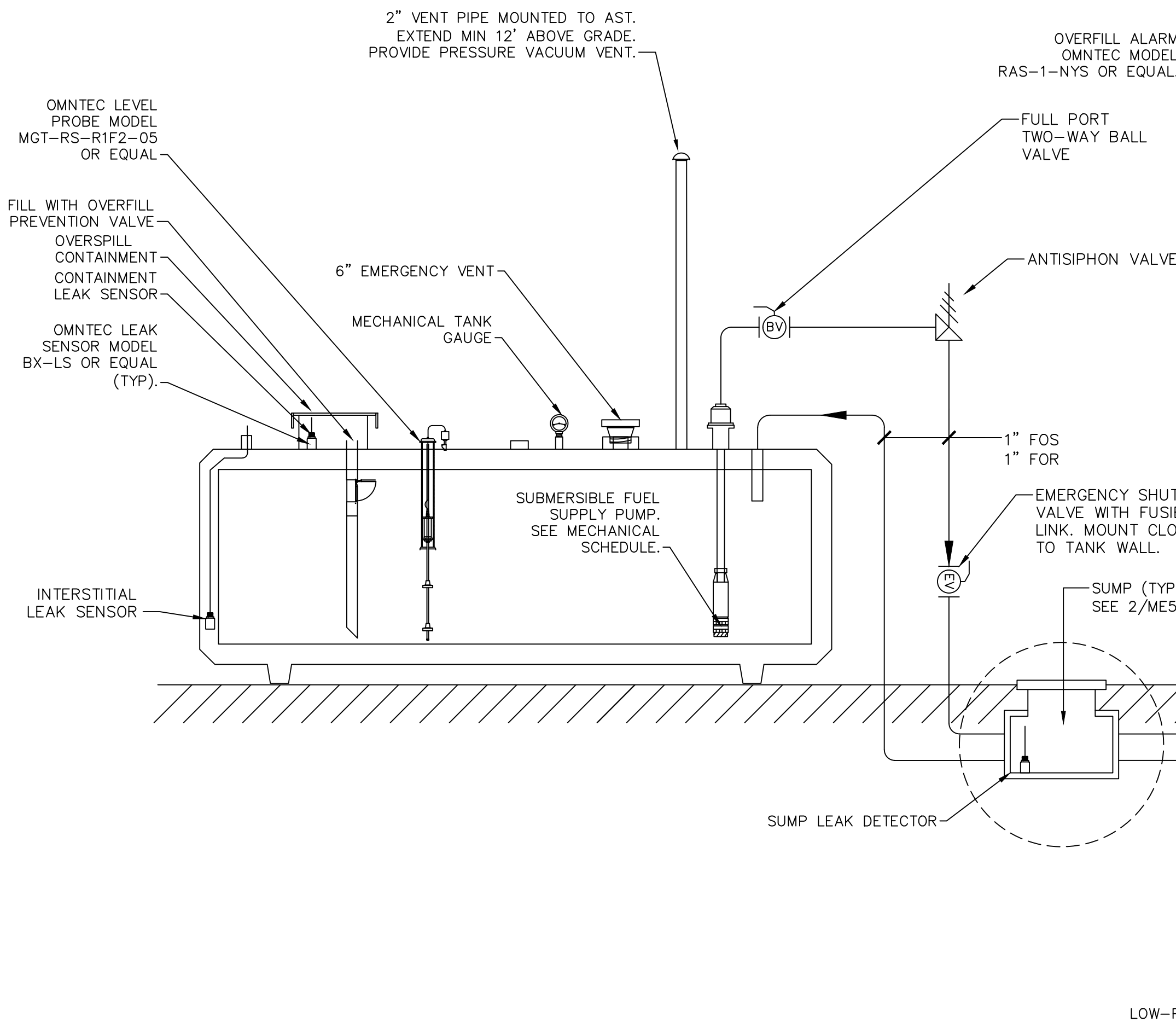
LINETYPE LEGEND

---	EXISTING TO REMAIN
---	DEMOLITION
---	NEW WORK

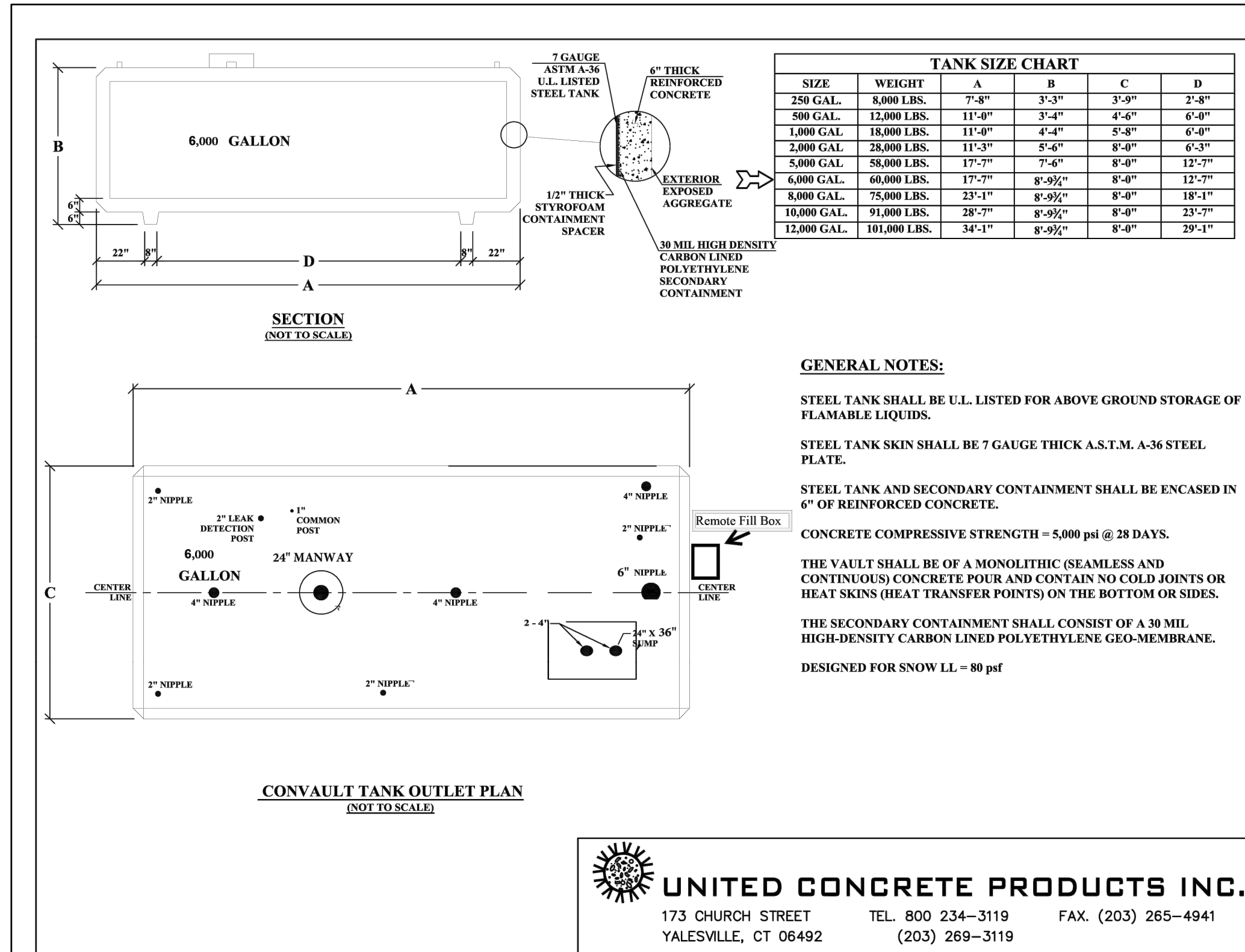
PROJ. No.: 20241534.A11 DATE: 06/9/2025		MD-101	
REGIONAL SCHOOL DISTRICT 10 MECHANICAL FIRST FLOOR DEMOLITION PLAN HARWINTON CONSOLIDATED SCHOOL UST REPLACEMENT		HARWINTON CONNECTICUT	
FUSS & O'NEILL ONE FINANCIAL PLAZA, 13th FLOOR HARTFORD, CT 06103 860.446.2468 www.foss.com		STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER NO. PEN 0032758 DAVID L. THAYER	
SCALE: HORZ.: 1/4" = 1'-0" VERT.: DATUM: HORZ.: VERT.: 0' 2' 4' 8'		GRAPHIC SCALE	
DESIGNER		REVIEWER	
DESCRIPTION		DATE	
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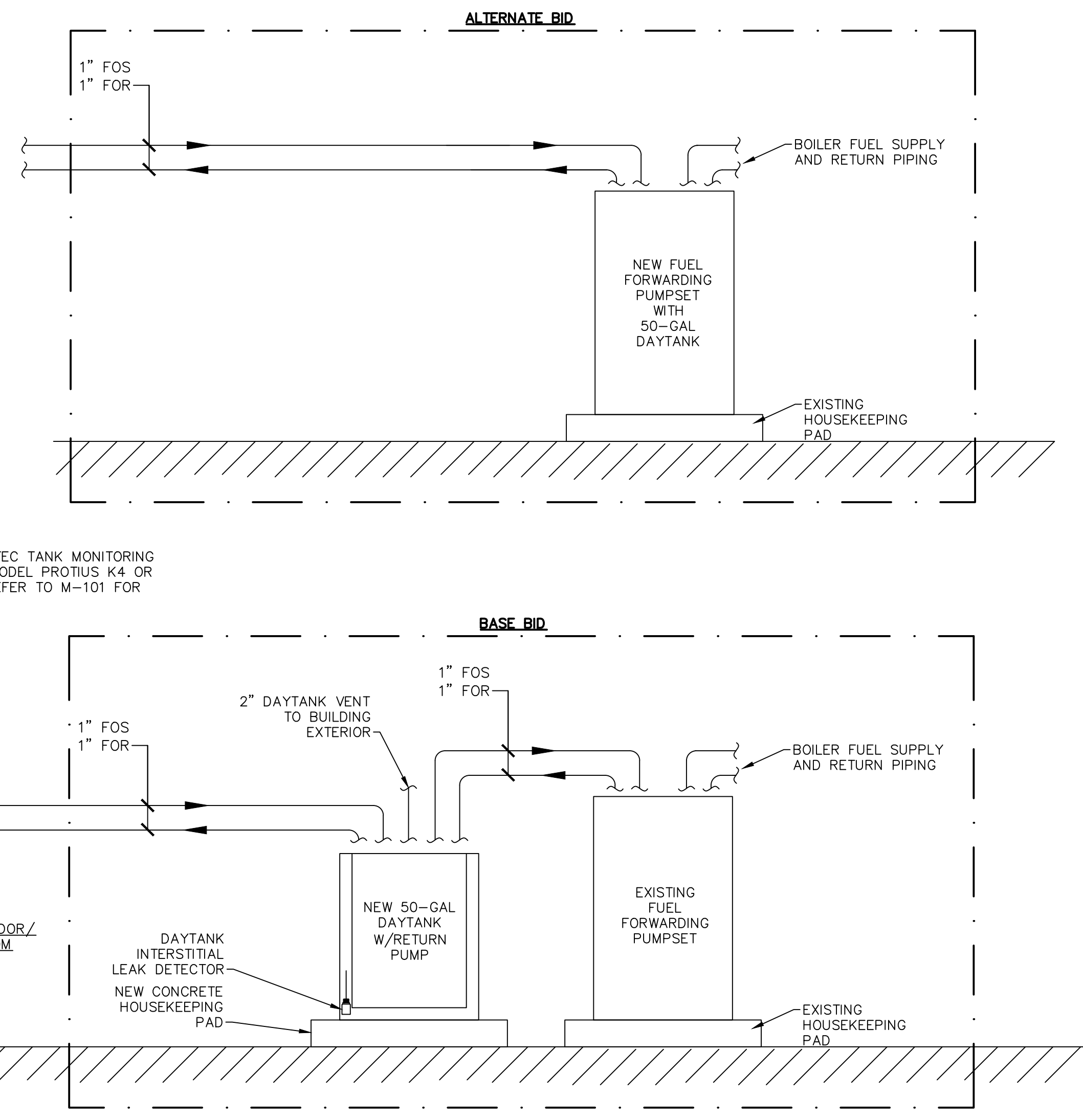
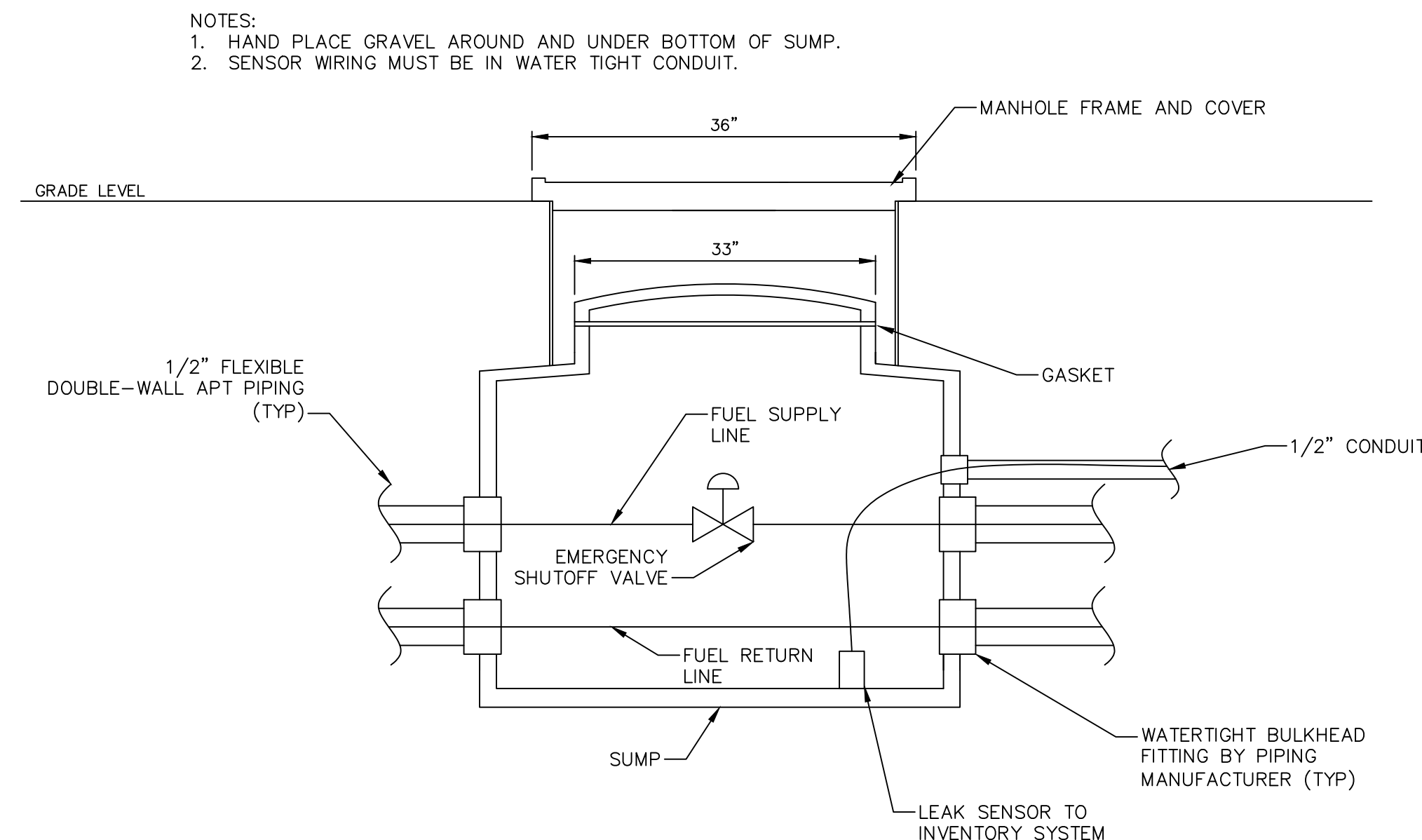
3 CONVAULT 6,000 GALLON ABOVEGROUND STORAGE TANK
SCALE: NTS



1 AST PIPING AND CONTROLS SCHEMATIC DIAGRAM
SCALE: NTS



2 SUMP DETAIL
SCALE: NTS



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REGIONAL SCHOOL DISTRICT 10
MECHANICAL DETAILS
HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT
HARWINTON

PROJ. No.: 20241534.A11
DATE: 06/9/2025

M-501



ALTERNATE BID:

1. UPON A CALL FOR FUEL BY THE BOILER, THE NEW BOILER DUXLEY SUPPLY PUMP SET WITH INTEGRAL DAYTANK WILL PROVIDE 3 GPM AT 100 PSIG TO THE BOILER LOOP. UNUSED FUEL WILL RETURN TO THE INTEGRAL DAYTANK. SUPPLY PUMP WILL OPERATE LAUG/LAG.
2. WHEN THE DAYTANK KNOB REACHES "LOW" LEVEL, THE ABOVEGROUND STORAGE TANK SUBMERSIBLE FUEL PUMP WILL ENERGIZE TO SUPPLY FUEL TO THE DAYTANK.
3. WHEN THE DAYTANK LEVEL REACHES "HIGH", THE AST SUBMERSIBLE FUEL PUMP WILL DE-ENERGIZE.
4. IF THE DAYTANK LEVEL REACHES "HIGH-HIGH", THE FUEL RETURN PUMP WILL ENERGIZE, RETURNING FUEL TO THE ABOVEGROUND STORAGE TANK. AN ALARM STATUS WILL BE SENT TO THE TANK MONITORING SYSTEM, WHICH WILL NOTIFY THE HEAD OF FACILITIES VIA TEXT MESSAGE.
5. IF THE DAYTANK LEVEL REACHES "LOW-LOW", AN ALARM STATUS WILL BE SENT TO THE TANK MONITORING SYSTEM, WHICH WILL NOTIFY THE HEAD OF FACILITIES VIA TEXT MESSAGE.

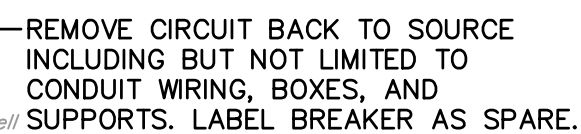
4 SEQUENCE OF OPERATIONS

TANK AND PUMP SCHEDULES													
TAG	BASIS OF DESIGN	LOCATION	CAPACITY	SUPPLY PUMP					RETURN PUMP				
				BASIS OF DESIGN	QTY	NOMINAL FLOWRATE	HP	VOLT/PH	BASIS OF DESIGN	QTY	NOMINAL FLOWRATE	HP	VOLT/PH
AST	CONVAULT	EXTERIOR	6,000 GAL	RED JACKET	1	10 GPM @ 37 PSI	0.75	230V/1	—	—	—	—	—
DAY TANK	PRYCO PY5QULDW	BOILER ROOM	50 GAL	—	1	—	—	—	PRYCO 10 GPM PUMP	1	10 GPM @ 40 PSI	1.5	230V/3
DAYTANK/ PUMP SET	PRYCO PYP51000	BOILER ROOM	50 GAL	PRYCO 4 GPM PUMP	2	3 GPM @ 100 PSI	0.50		PRYCO 8 GPM PUMP	1	7.5 GPM @ 40 PSI	0.75	230V/3
NOTES: 1. BASE BID: DAYTANK IS BASE BID. PROVIDE MOTOR STARTER FOR DAYTANK RETURN PUMP. 2. ALTERNATE BID: PROVIDE MOTOR STARTER FOR SUPPLY AND RETURN PUMPS. 60 MESH FUEL STRAINER, NEMA 1 PUMP SET ENCLOSURE, CHECK VALVE, MANUAL CUT-OFF BALL VALVE FOR PUMP ISOLATION, FUEL DETECTION SWITCH, EXTERNAL PRESSURE RELIEF BYPASS VALVE, DUPLEX ALTERNATOR TRANSFER SWITCH.													

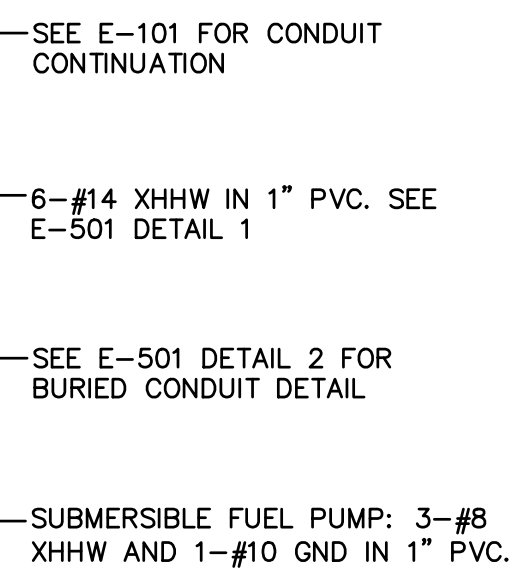
1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES AND AMENDMENTS.
2. THE CONTRACTOR SHALL OBTAIN AND BEAR THE COST OF ALL PERMITS REQUIRED TO PERFORM THE WORK.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEM AND WORK. ALL LOCATIONS AND CONDUIT SIZING SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY FIELD CONDITIONS FOR OPTIMUM ROUTING AND SIZING OF CONDUITS.
4. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ENGINEER, ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME.
5. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE ANY INTERFERENCE WITH PIPES, DUCTS, ETC.
6. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
7. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS, JUNCTION BOXES AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK TO COMPRISE A COMPLETE AND OPERATING SYSTEM WHETHER SHOWN ON THE PLANS OR NOT.
8. CONDUITS AND WIRING SHALL BE INSTALLED CONCEALED WHEREVER POSSIBLE AND SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ALL BUILDING LINES.
9. ALL CONDUITS SHALL CONTAIN A GREEN GROUND WIRE. BOND ALL PANELS, CABINETS, ENCLOSURES, CONDUITS, ETC., AS REQUIRED. ALL GROUNDING CONDUCTORS SHALL BE CONTINUOUS TO MAIN GROUNDING SYSTEM.
10. ALL WIRE SHALL BE 60KV INSULATED TYPES THWN OR XHHW, 75°C, COPPER, UNLESS OTHERWISE INDICATED.
11. BRANCH CIRCUIT WIRING SHALL BE MINIMUM ¼"-2#12, 1#12 GND. BRANCH CIRCUIT WIRING AND HOMERUNS WITH LENGTHS EXCEEDING 90 FEET FOR 120V AND 200 FEET FOR 277V SHALL USE #10 AWG. THOSE EXCEEDING 140 FEET FOR 120V SHALL USE #8 AWG CONDUCTORS. NO MORE THAN THREE PHASES MAY BE COMBINED IN A SINGLE HOMERUN AND EACH PHASE SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL.
12. ALL CUTTING, PATCHING AND FIRESTOPPING RELATED TO ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
13. PROVIDE CONDUIT SLEEVES FILLED WITH AN APPROVED FIRE-RESISTANT MATERIAL TO MAINTAIN RATING; WHERE FIRE-RATED WALLS, FLOORS OR CEILINGS ARE PENETRATED. APPROVED WATERTIGHT CONDUIT SLEEVES SHALL BE INSTALLED WHERE WALLS ARE PENETRATED EITHER ENTERING OR LEAVING A BUILDING.
14. FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND EQUIPMENT, REFER TO ARCHITECTURAL DRAWINGS. COLORS AND FINISHES OF DEVICES, COVER PLATES, LIGHTING FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT DURING THE SHOP DRAWING PHASE OF CONSTRUCTION.
15. COORDINATE CONDUITS ENTERING OR LEAVING THE BUILDING WITH THE SITE CONTRACTOR(S) BEFORE INSTALLATION. COORDINATE INVERTS WITH THE STRUCTURE AND SYSTEM REQUIREMENTS PRIOR TO INSTALLATION.
16. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH THE ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND REFLECTED CEILING PLANS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DISPOSITION.
17. INSTALL ALL EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE EQUIPMENT MUST BE INSTALLED ABOVE AN INACCESSIBLE CEILING OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED AND THE LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.
18. CONDUITS AND BOXES SHALL AS BE AS FOLLOWS: INTERIOR SHALL BE ELECTRICAL METAL TUBING (EMT), EXTERIOR BURIED SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC), EXPOSED EXTERIOR SHALL BE RIGID GALVANIZED STEEL (RGS) OR PVID.

POWER CONNECTIONS	
	NON FUSED DISCONNECT SWITCH
	JUNCTION BOX SIZED PER NEC
	INTERIOR ELECTRICAL CONDUIT AND WIRING, AS INDICATED. EMT CONDUIT WITH THWN WIRING.
	BURIED ELECTRICAL CONDUIT AND WIRING, SEE DRAWING E-501 DETAIL 2. PVC SCHEDULE 40 CONDUIT WITH XHHW WIRING

E-001	PROJ. No.: 20241534.A11 DATE: 06/9/2025	
REGIONAL SCHOOL DISTRICT 10 ELECTRICAL NOTES AND LEGEND HARWINTON CONSOLIDATED SCHOOL UST REPLACEMENT HARWINTON CONNECTICUT	FUSS & O'NEILL ONE FINANCIAL PLAZA, 15th FLOOR HARTFORD, CT 06103 tel: 860.262.1111 www.fussco.com	
	SCALE: HORZ.: NTS VERT.: DATUM: HORZ.: VERT.: GRAPHIC SCALE	
	No.	DATE
	DESCRIPTION	
	DESIGNER	REVIEWER



SCALE: 1" = 200'



SCALE: 1" = 200'

LINETYPE LEGEND

EXISTING TO REMAIN

DEMOLITION

NEW WORK



SCALE: $HORZ.: 1" = 200'$

VERT.: -
DATUM:

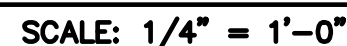
DATUM:

**FUSS &
O'NEILL**

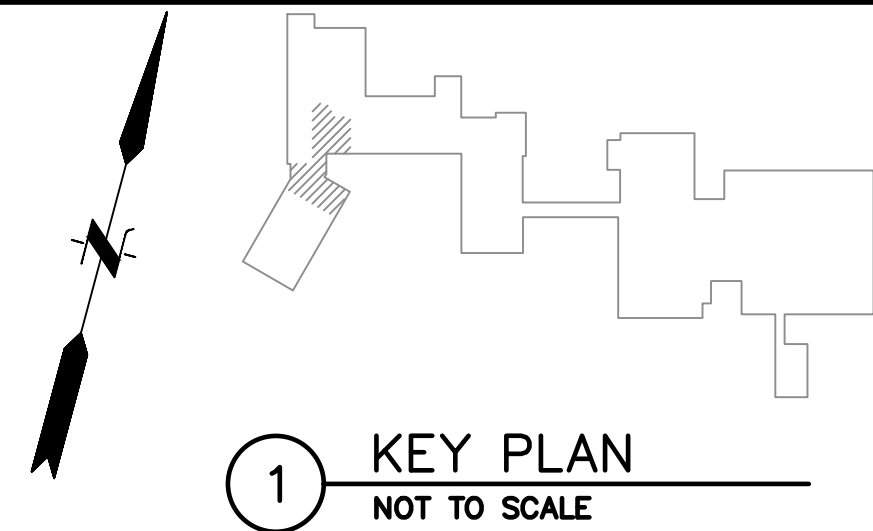
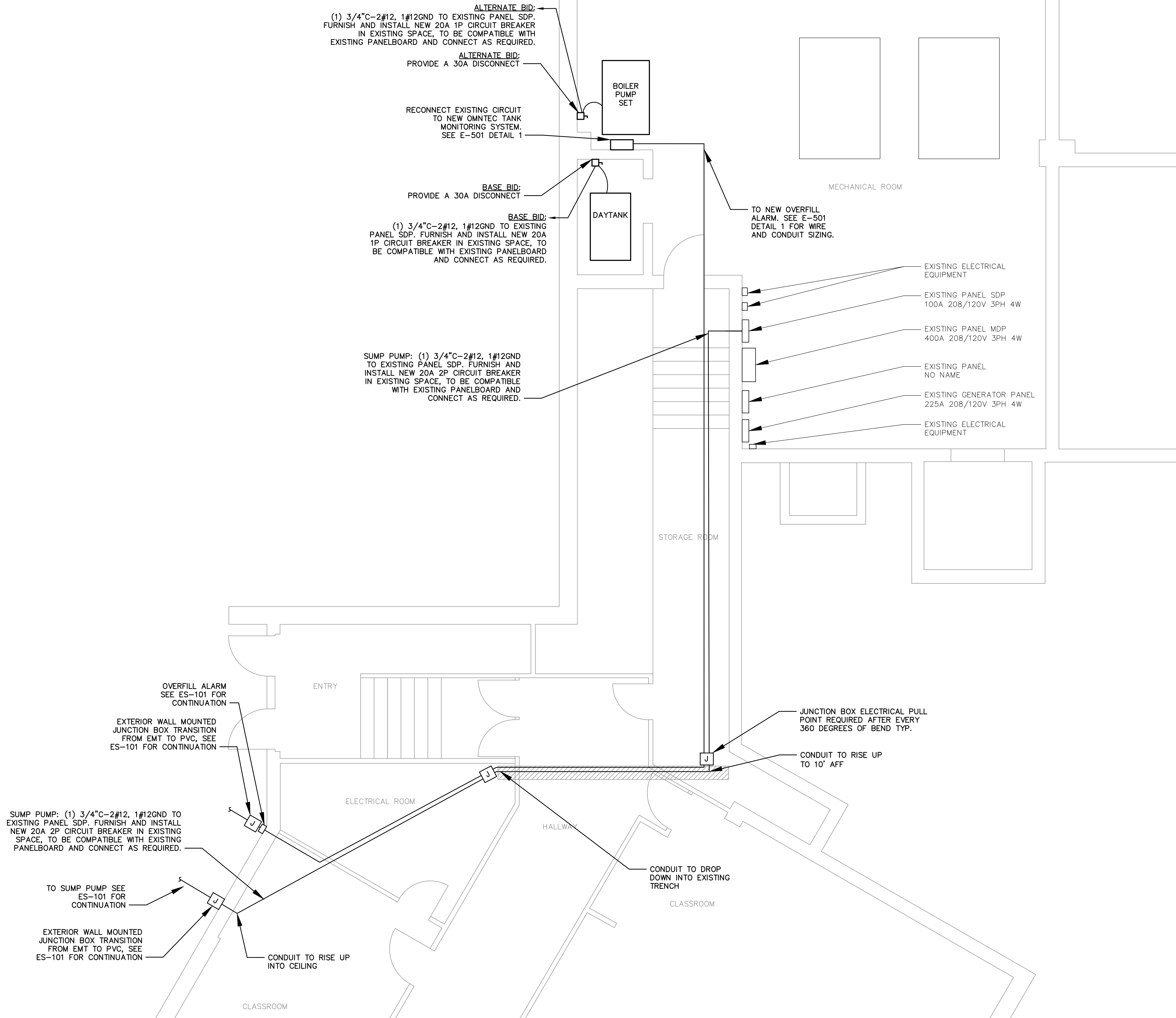
REGIONAL SCHOOL DISTRICT 10
ELECTRICAL DEMOLITION AND NEW
WORK SITE PLAN
HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT

PROJ. No.: 20241534.A1
DATE: 06/9/2025

ES-100

ED-100

File: J:\DWG\IP2024\1534\A11\MEP\Mechanical\2024\1534.A11_M101.dwg Layout: E-101 Plotted: 2025-06-10 2:02 PM Saved: 2025-06-10 11:09 AM User: Caitlin Abel
MS VIEW: PC3: NONE ST/CTB: FOSTB



DESIGNER	REVIEWER
DATE	DESCRIPTION
No.	



SCALE:	HORIZ.: 1/4" = 1'-0"	VERT.: 1/4" = 1'-0"
DATUM:	HORIZ.: 1/4" = 1'-0"	VERT.: 1/4" = 1'-0"
GRAPHIC SCALE	0' 2' 4' 8'	

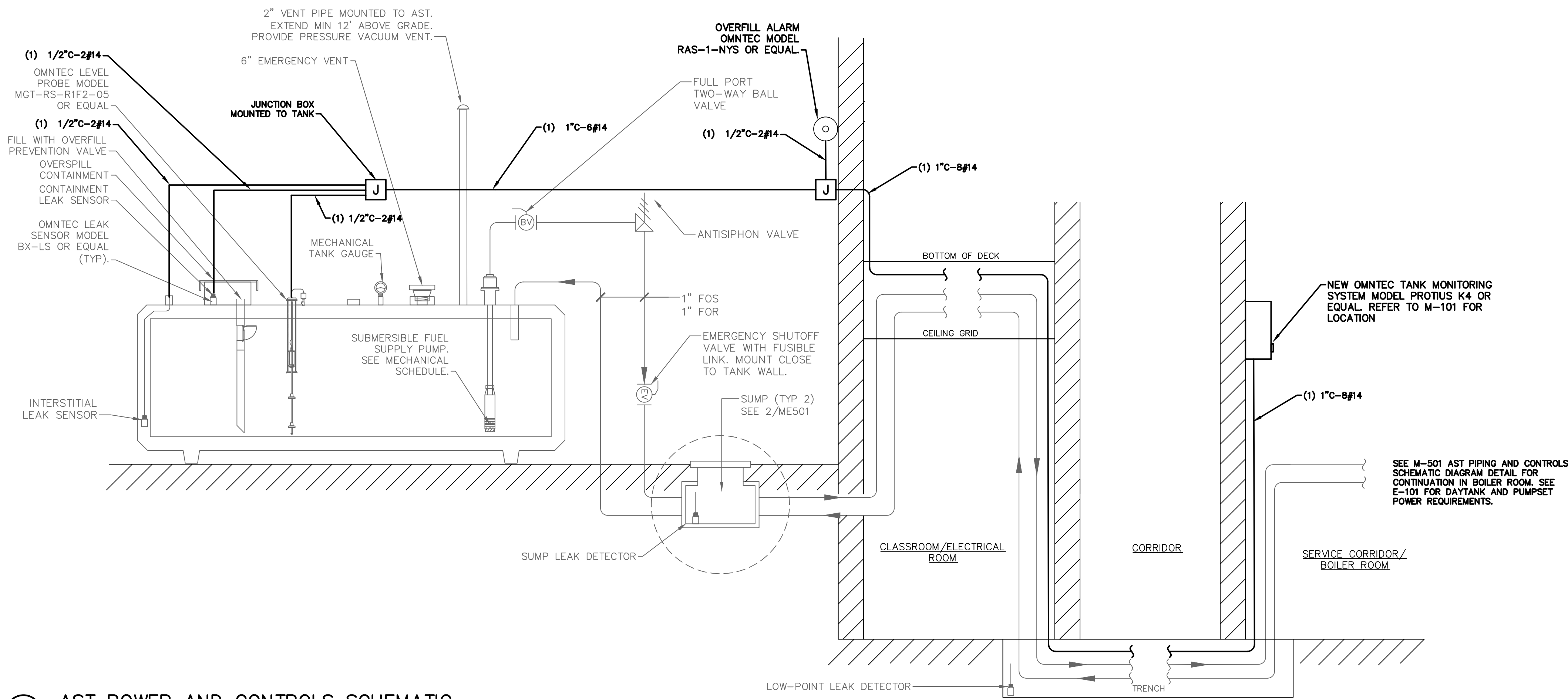
FUSS & O'NEILL
ONE FINANCIAL PLAZA, 15th FLOOR
HARTFORD, CT 06103
860.426.2465
www.foss.com

REGIONAL SCHOOL DISTRICT 10
ELECTRICAL FIRST FLOOR
NEW WORK PLAN
HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT
HARWINTON CONNECTICUT

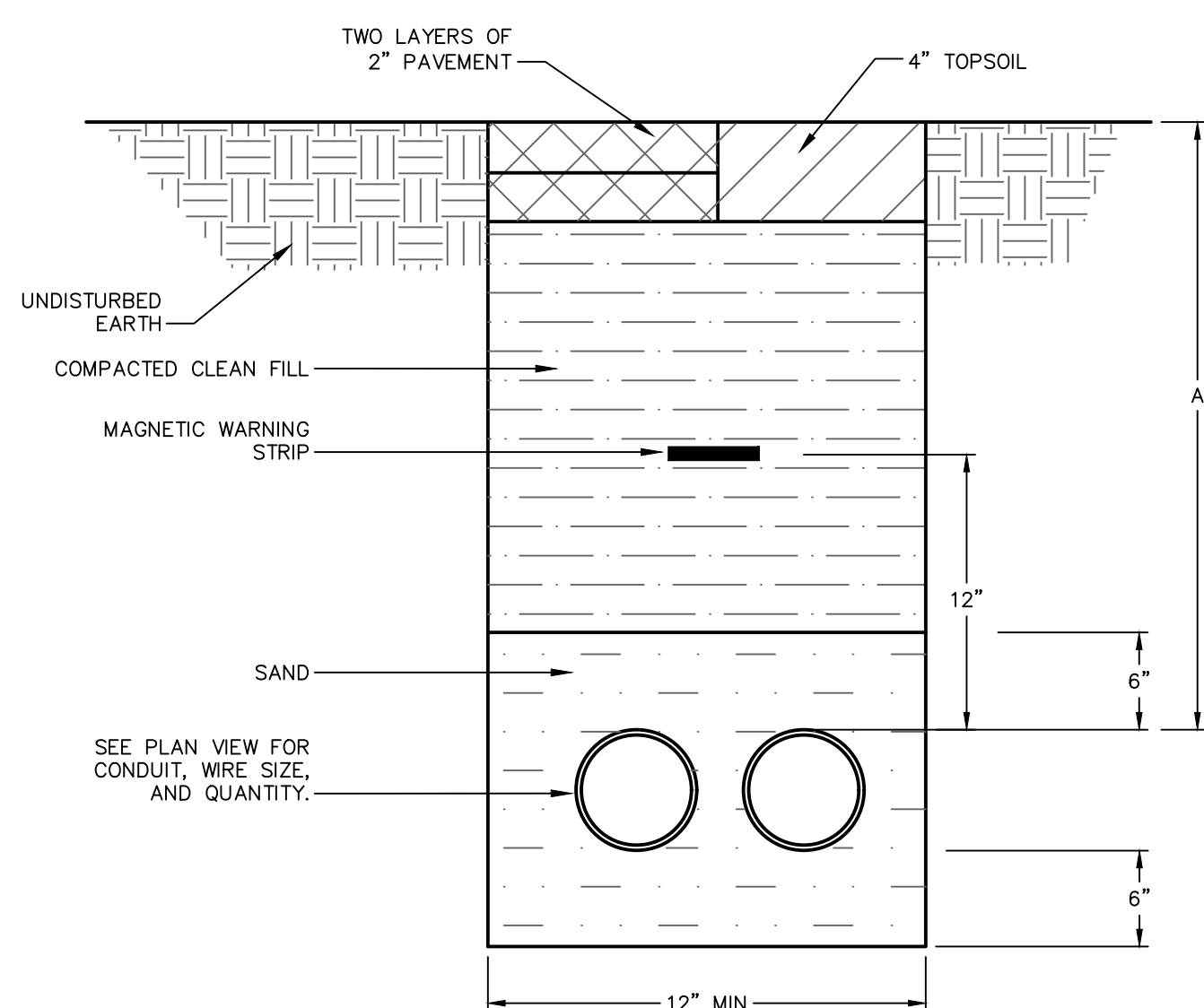
PROJ. No.: 20241534.A11
DATE: 06/9/2025

E-101

File: J:\DWG\2024\1534\A11MEP\Mechanical\2024\1534.A11_M500.dwg Layout: E-501 Plotted: 2025-06-10 2:02 PM Saved: 2025-06-10 1:19 PM User: Caitlin Abel
MS VIEW: LAYER STATE: PC3: NONE ST/CTB: FO STB



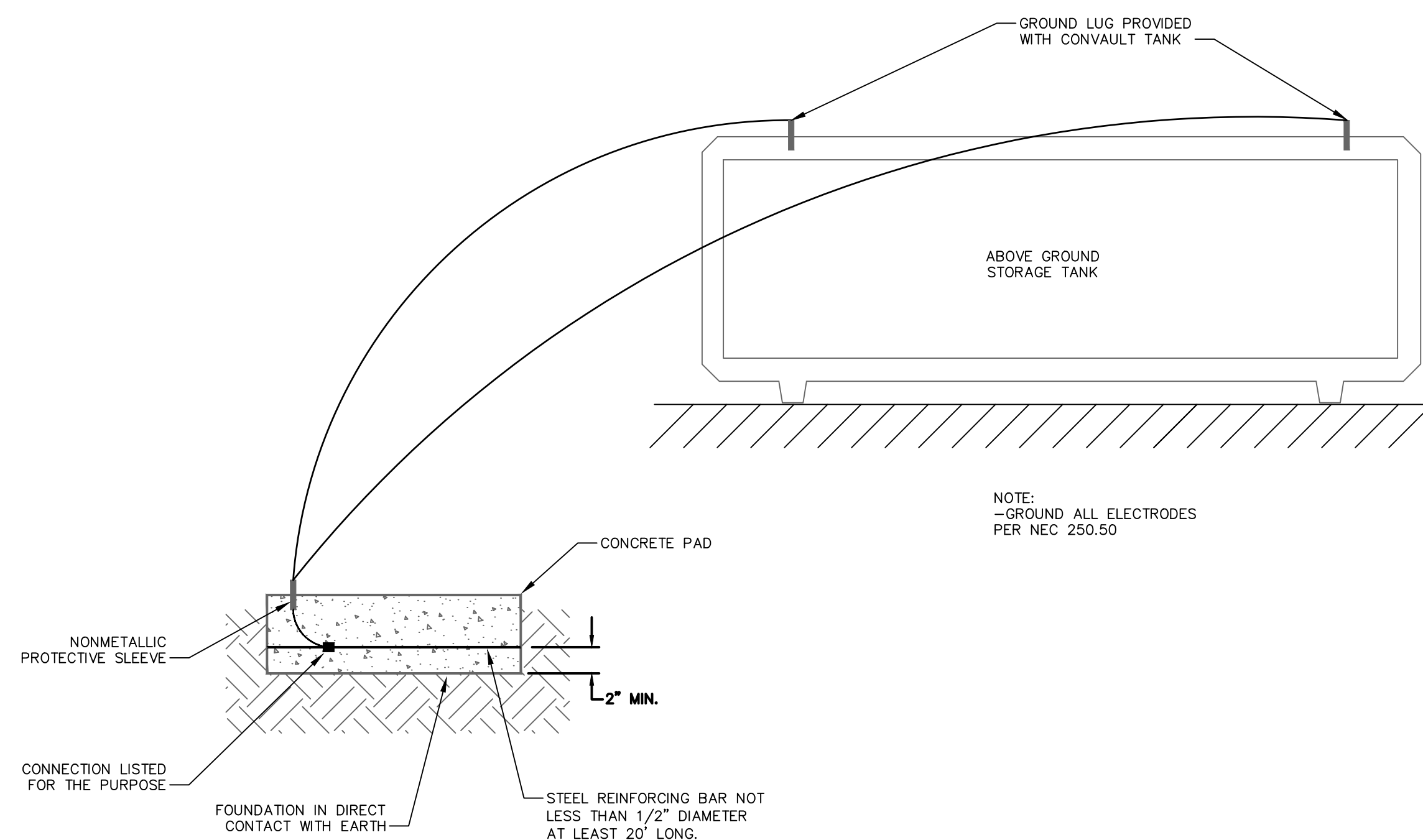
1 AST POWER AND CONTROLS SCHEMATIC
SCALE: NTS



CONDUIT DEPTHS	
SERVICE	DIM "A"
SECONDARY	24"

NOTE:
WHEN MULTIPLE CONDUITS ARE BURIED
TOGETHER THERE SHALL BE A MINIMUM
OF 2" CLEARANCE BETWEEN CONDUITS.

2 BURIED CONDUIT DETAIL
SCALE: NTS



3 AST GROUNDING AND BONDING DETAIL
SCALE: NTS

DESIGNER	REVIEWER
No.	DATE



SCALE:	GRAPHIC SCALE
HORIZ.: NTS	
VERT.: NTS	
DATUM:	
HORIZ.: NTS	
VERT.: NTS	

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REGIONAL SCHOOL DISTRICT 10
ELECTRICAL DETAILS
HARWINTON CONSOLIDATED SCHOOL
UST REPLACEMENT
HARWINTON CONNECTICUT

PROJ. No.: 20241534.A11
DATE: 06/9/2025

E-501