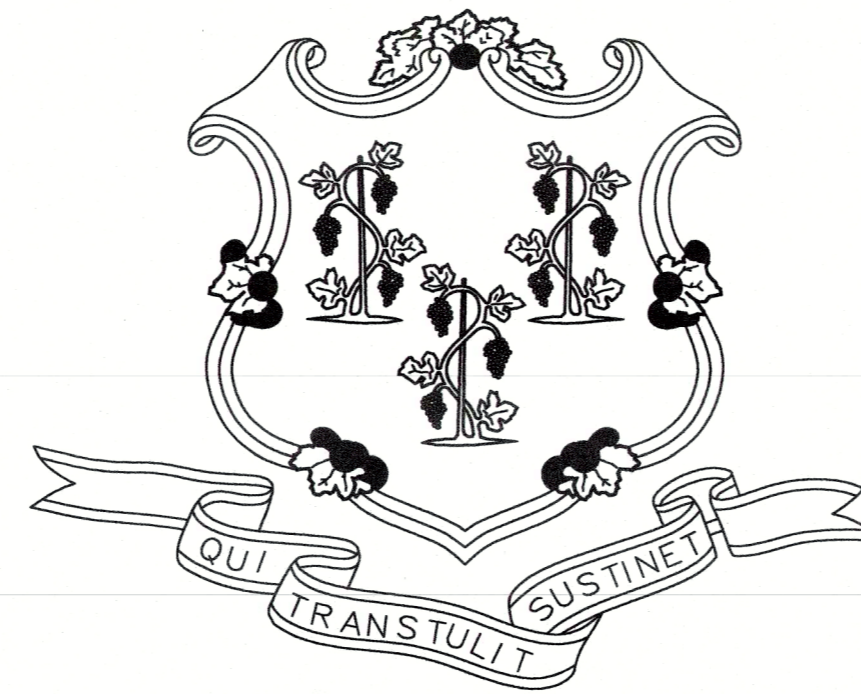


STATE OF CONNECTICUT



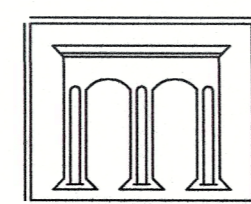
DEPARTMENT OF ADMINISTRATIVE SERVICES
JOSH GEBALLE
 COMMISSIONER

WESTERN CONNECTICUT STATE UNIVERSITY
JOHN B. CLARK
 PRESIDENT

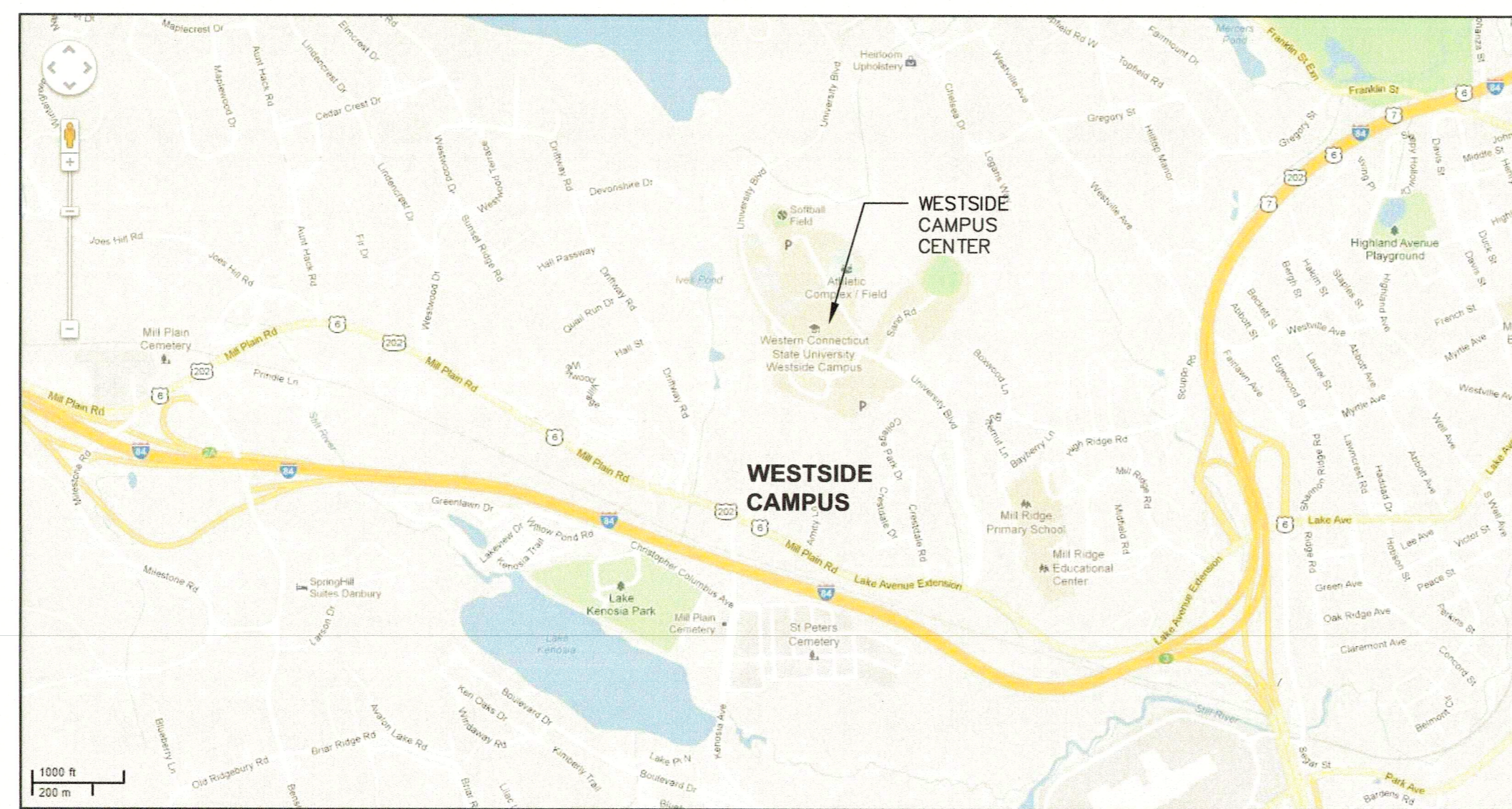
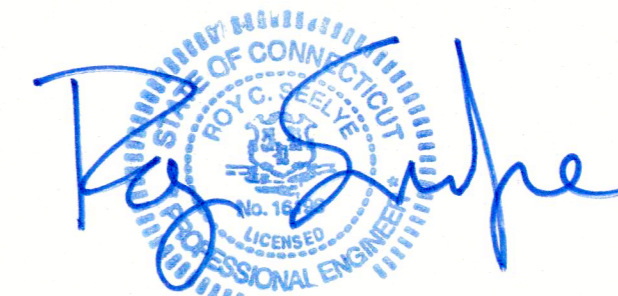
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WESTERN CONNECTICUT STATE UNIVERSITY

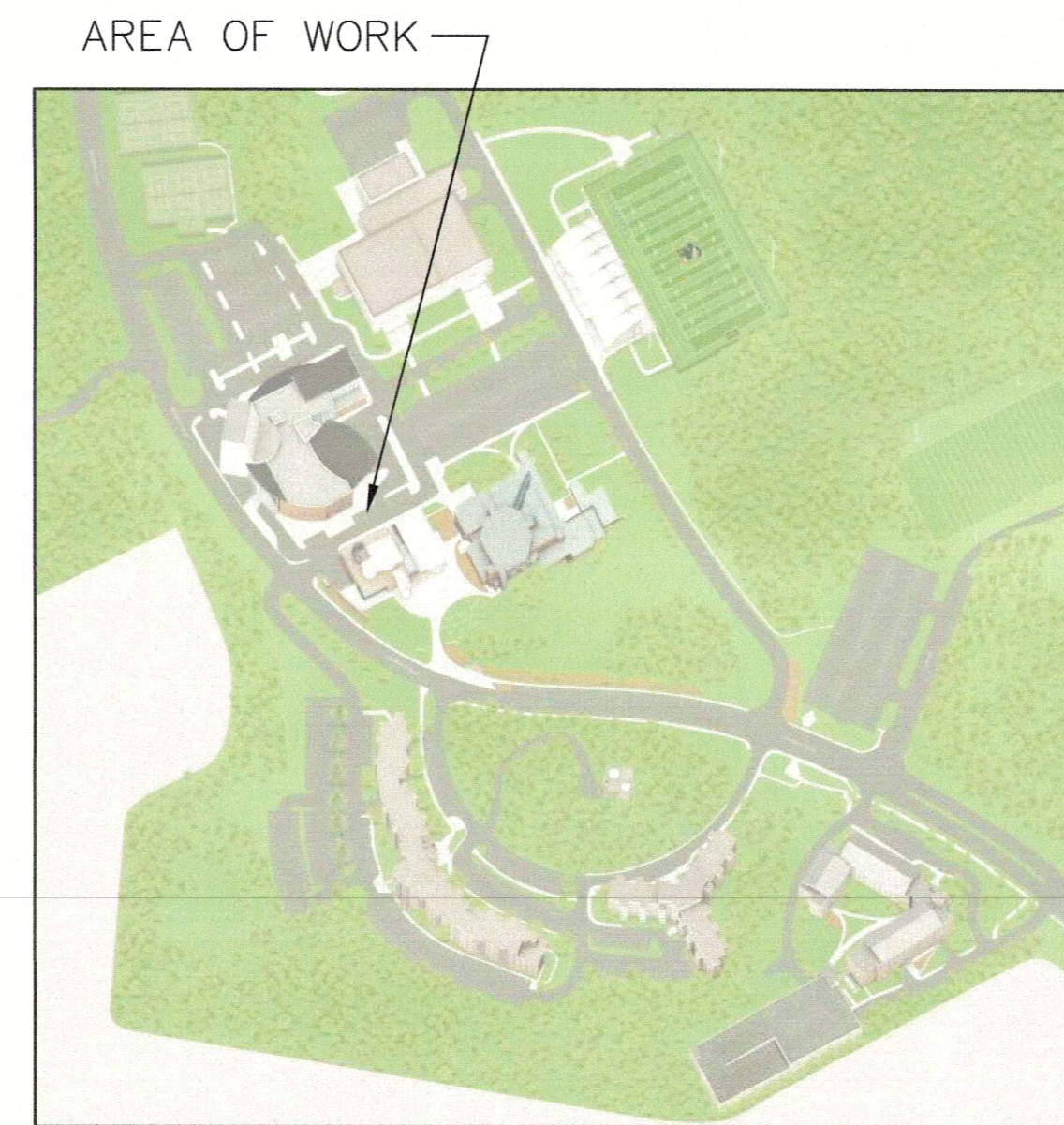
OIL TANK REMOVAL AT PLAZA at Between VPAC & West Side Campus Center



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LOCATION MAP
 N. T. S.



WESTSIDE CAMPUS MAP
 N. T. S.

ABBREVIATIONS

- | | |
|---|--|
| <p>A/C Air Conditioner
 AFF Above Finish Floor
 ALUM. Aluminum
 APPRD Approved
 ARCH Architect(ural)
 B/O Bottom Of
 BL Block
 BLDG Building
 BLKG Blocking
 BSMT Basement
 C.H. Ceiling Height
 CL Closet
 CLG Ceiling
 CLR Clear
 C.O. Cleanout
 COL Column
 CONC Concrete
 CONT Continuous
 C.T. Ceramic Tile
 C.W. Cold Water
 DBL Double
 DIA Diameter
 D.S. Downspout
 DTL Detail
 DW Dishwasher
 DWG Drawing
 EA Each
 E.I.F.S. Exterior Insulation & Finish System
 ELEV. Elevation
 ELEC. Electrical
 EQUIP Equipment
 EXIST Existing
 EXP Expansion
 EXT Exterior
 Fb Allowable Bending Stress
 Fc 28 Day Compressive Strength
 F.C.O. Floor Cleanout
 F.D. Floor Drain
 Fin. Fl. or F.F. Finished Floor
 FLR Floor
 FNDN Foundation
 F.O.C. Face of Concrete
 F.O.F. Face of Finish
 F.O.S. Face of Stud
 F.R. Fire Retardant
 F.S. Far Side
 FT Foot, Feet
 FTG Footing
 GA Gauge
 GAL Gallon
 GALV. Galvanized
 GC General Contractor
 GFI Ground Fault
 "Circuit Interrupter
 GYP. BD. Gypsum Board
 H.C. Hollow Core
 HDR Header
 HGT or HT Height
 H.M. Hollow Metal
 HORIZ Horizontal
 HR Hour
 H.W. Hot Water
 I.D. Inside Diameter
 INSUL Insulation
 JSTS Joists
 LAV Lavatory
 LG Long
 MAX Maximum
 MECH Mechanical</p> | <p>MFR Manufacturer
 M.H. Manhole
 MIN Minimum
 MLDG Moulding
 M.O. Masonry Opening
 MTD Mounted
 MTL Metal
 N.I.C. Not In Contract
 NO. Number
 NOM Nominal
 N.S. Near Side
 NTS Not To Scale
 O.A. Over All
 O.C. On Center
 O.D. Outside Diameter
 O.H. Overhead
 OPG or OPNG Opening
 OPP Opposite
 P.C. Poured Concrete
 PERF Perforated
 PLMG Plumbing
 PLYWD Plywood
 PR Pair
 PTD Painted
 PWT Pavement
 P.T. Pressure Treated
 R Riser
 RR Roof Rafters
 RAFT Rafters
 R.D. Roof Drain
 RE: Refer To
 REF. Refrigerator
 REINF. Reinforced
 REQD Required
 R.O. Rough Opening
 R.O.B. Run of Bank
 S Sewer/Sanitary
 SF Square Feet
 SIM Similar
 SHWR Shower
 S.M.H. Sewer Manhole
 SPEC Specifications
 S.S. Stainless Steel
 STD Standard
 STR Structural
 T Tread
 THK Thick
 T/O Top Of
 TEL Telephone
 T.O.S. Top of Steel
 TYP Typical
 U.D. Unit Dimensions
 U.L. Underwriter's Laboratory
 UNO Unless Noted Otherwise
 U.O. Unit Opening
 URN Urinal
 VCT Vinyl Composition Tile
 VERT Vertical
 V.I.F. Verify In Field
 W/ With
 WC Water Closet
 W.C.O. Wall Cleanout
 WD Wood
 W.P. Waterproof
 W/O Without
 WR Water Resistant
 WWF Welded Wire Fabric
 WWM Welded Wire Mesh</p> |
|---|--|

INDEX OF DRAWINGS

- CS-1 Cover Sheet
- EC-1 Site Survey Existing Conditions
- L-1.1 Site Preparation Plan
- L-1.2 Grading Plan
- L-1.3 Layout Plan
- L-1.4 Site Plan
- L-2.1 Landscape Details
- C-1.0 Storm Water Pollution Control Plan (SWPCP)
- C-1.1 Soil Erosion Controls Details
- C-1.2 Site Utility Preparation and Demolition
- C-2.0 Site Utility Plan
- C-2.1 Oil Tank/Pipe Removal Plan
- C-2.2 Oil Tank/Pipe Removal Photos
- C-2.3 Penthouse Plan
- C-3.0 Site Utility Details
- C-3.1 Site Utility Details
- C-4.0 Site Electrical Plan
- IR-1.0 Site Irrigation Plan

SYMBOLS

- | | | | |
|----|--------------|-----|--------------------|
| & | And | 30# | Thirty Pound |
| ⊙ | At | ⊙ | Column Line |
| ∅ | Diameter | ⊕ | Section Thru |
| ⊕ | Center Line | ⊕ | Detail Reference |
| ⊕ | Plate | ⊕ | Door Designation |
| ∠ | Angle | ⊕ | Window Designation |
| [| Channel | ⊕ | Roof Pitch |
| #3 | Number Three | | |



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**OIL TANK REMOVAL
 AT PLAZA
 Between VPAC & West Side Campus Center**

Cover Sheet

**100% CD
 SUBMISSION**

Project No. **CF-RD 309**

By: **JWK**

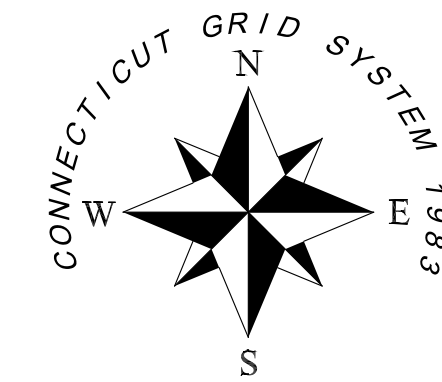
Scale: **AS NOTED**

Issue Date: **9/6/19**

CS-1

SURVEY NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS AN TOPOGRAPHIC SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2, VERTICAL ACCURACY V-2 AND TOPOGRAPHICAL ACCURACY T-2.
2. ELEVATIONS DEPICTED HEREON REFER TO NORTH AMERICAN VERTICAL DATUM 1988.
3. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROLE TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST WITHIN THE AREA DEPICTED, THE EXISTENCE OF WHICH ARE UNKNOWN TO SYDNEY A. RAPP LAND SURVEYING, P.C. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 811 OR 1-800-922-4455.
4. APPROXIMATE UNDERGROUND TANK LOCATION DEPICTED HEREON IS UNCERTAIN. TEST HOLES MAY BE REQUIRED FOR EXACT LOCATION.
5. REVISION OF SEPTEMBER 4, 2019 MADE TO UPDATE LOCATION OF APPROXIMATE UNDERGROUND GAS LINE.



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OIL TANK REMOVAL AT PLAZA
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SITE SURVEY EXISTING CONDITIONS

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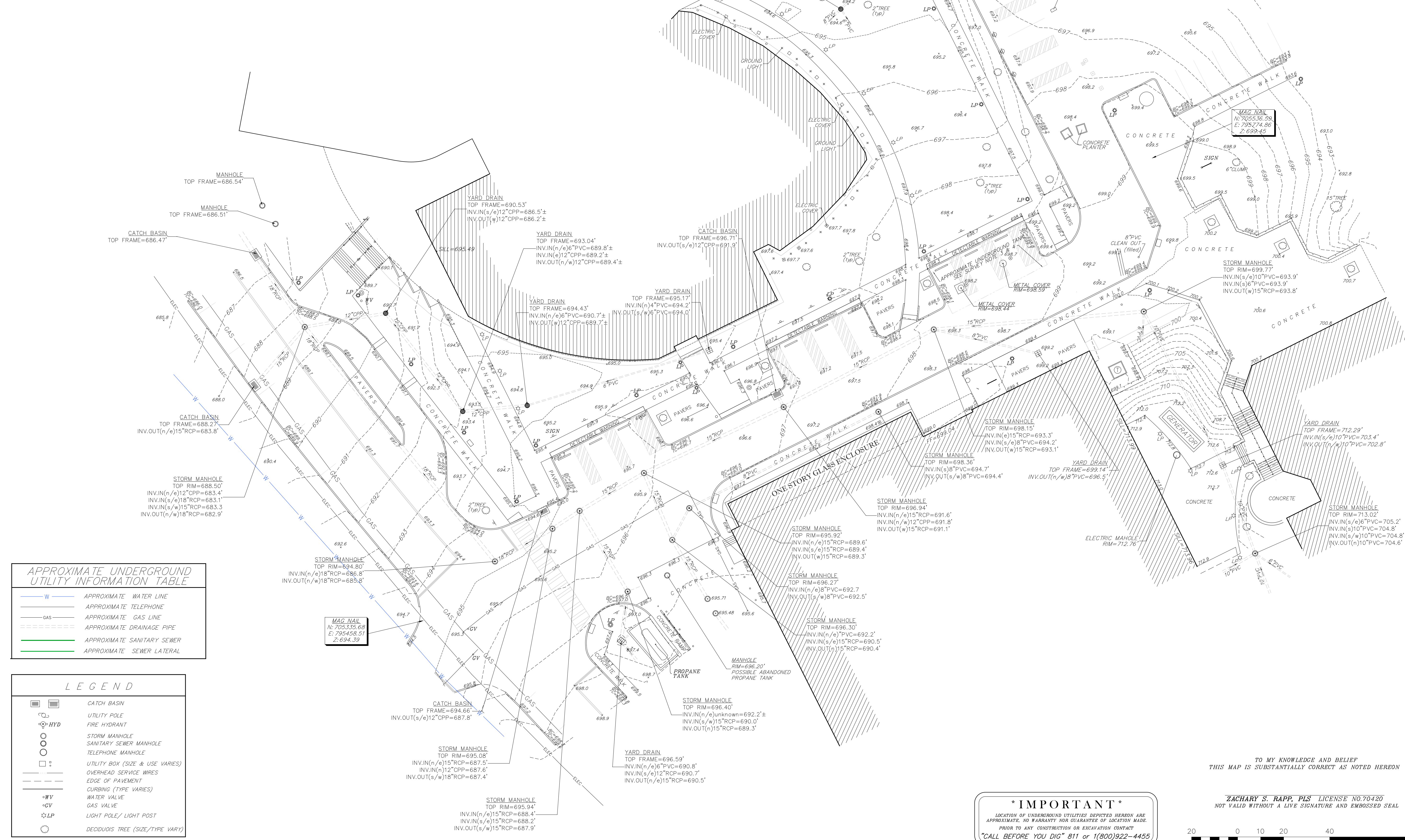
Project No. CF-RD 309

By: Z.S.R.

Scale: 1" = 20'-0"

Issue Date: 9/6/2019

EC-1



*** IMPORTANT ***
 LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE APPROXIMATE. NO WARRANTY NOR GUARANTEE OF LOCATION MADE. PRIOR TO ANY CONSTRUCTION OR EXCAVATION CONTACT "CALL BEFORE YOU DIG" 811 OR 1(800)922-4455

TO MY KNOWLEDGE AND BELIEF
 THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

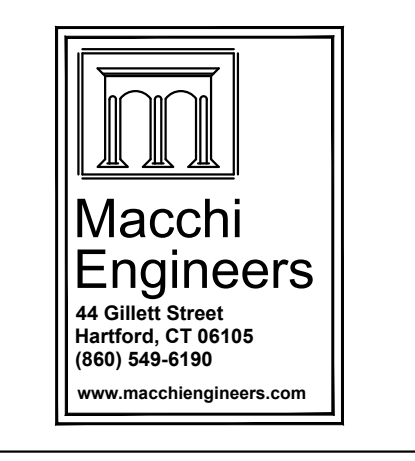
ZACHARY S. RAPP, PLS LICENSE NO. 704280
 NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL



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OIL TANK REMOVAL AT PLAZA

Between VPAC & West Side Campus Center

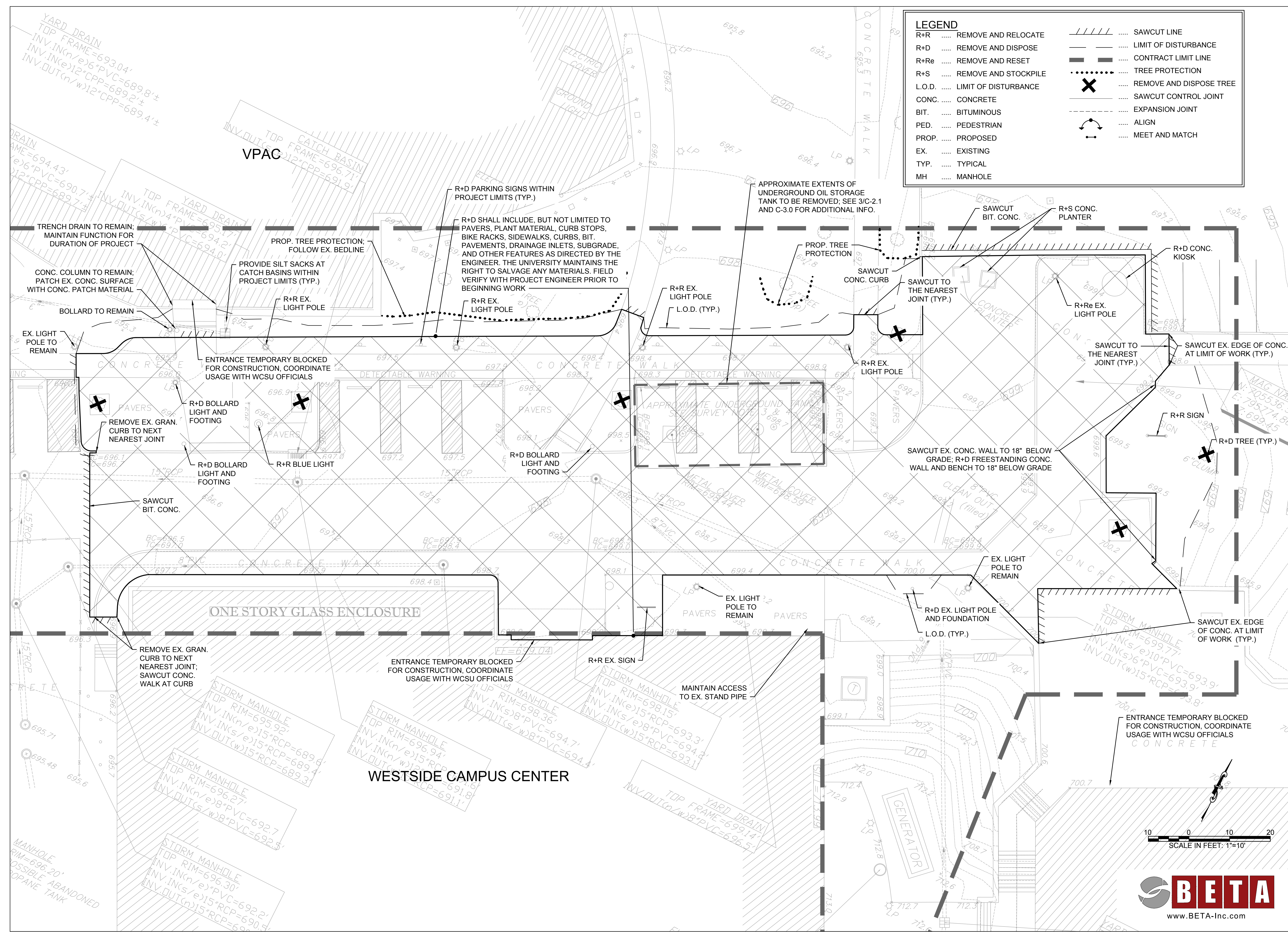


SITE PREPARATION PLAN

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Project No. CF-RD 309
By: NS
Scale: AS NOTED
Issue Date: 9/06/2019

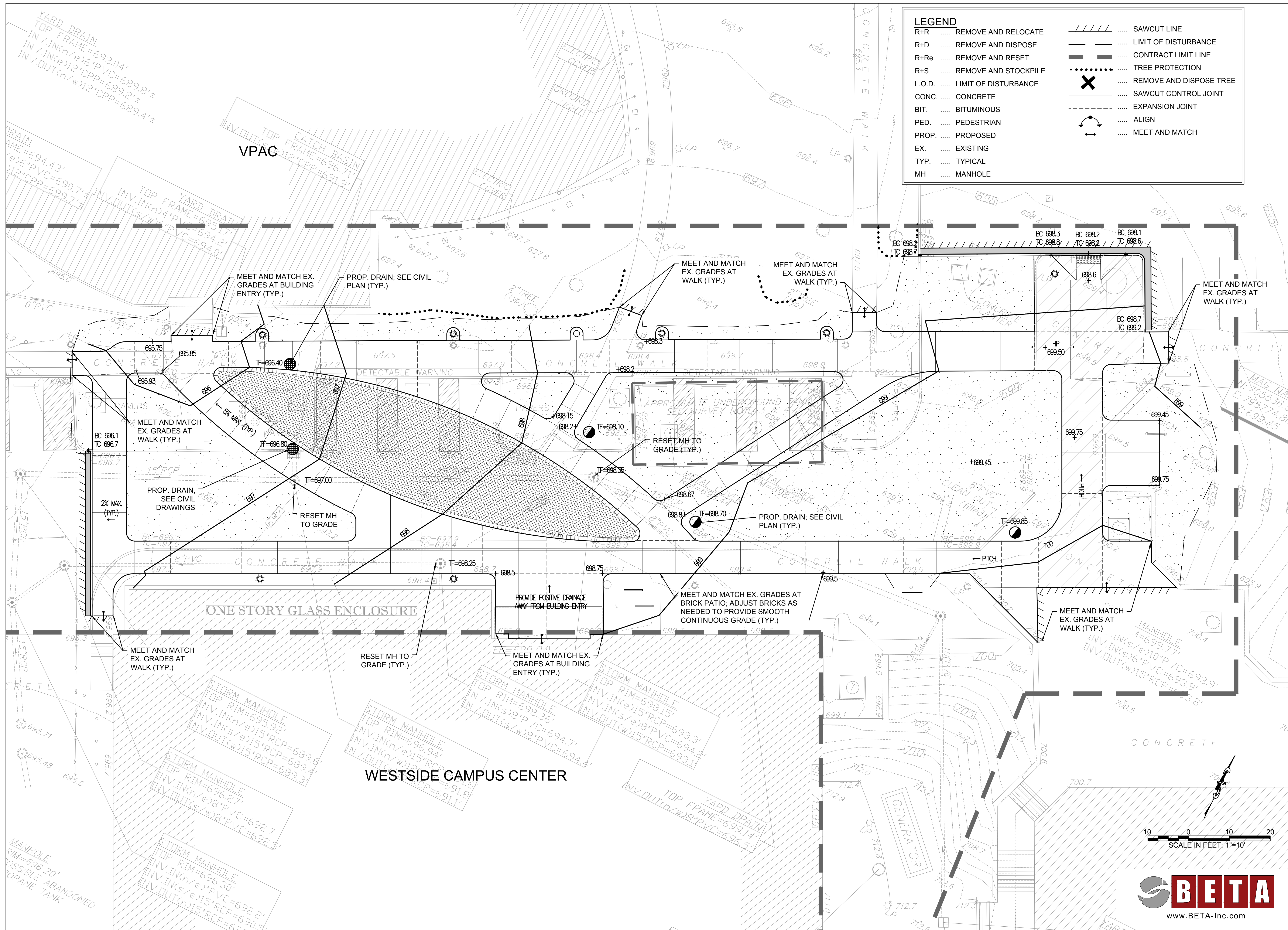
L-1.1



LEGEND

R+R REMOVE AND RELOCATE	//// SAWCUT LINE
R+D	..... REMOVE AND DISPOSE	----	..... LIMIT OF DISTURBANCE
R+Re	..... REMOVE AND RESET	----	..... CONTRACT LIMIT LINE
R+S	..... REMOVE AND STOCKPILE	.....	..... TREE PROTECTION
L.O.D.	..... LIMIT OF DISTURBANCE	X	..... REMOVE AND DISPOSE TREE
CONC.	..... CONCRETE	----	..... SAWCUT CONTROL JOINT
BIT.	..... BITUMINOUS	----	..... EXPANSION JOINT
PED.	..... PEDESTRIAN	↔	..... ALIGN
PROP.	..... PROPOSED	↔	..... MEET AND MATCH
EX.	..... EXISTING		
TYP.	..... TYPICAL		
MH	..... MANHOLE		





LEGEND

R+R	..... REMOVE AND RELOCATE	////	..... SAWCUT LINE
R+D	..... REMOVE AND DISPOSE	----	..... LIMIT OF DISTURBANCE
R+Re	..... REMOVE AND RESET	----	..... CONTRACT LIMIT LINE
R+S	..... REMOVE AND STOCKPILE	----	..... TREE PROTECTION
L.O.D.	..... LIMIT OF DISTURBANCE	XXXX	..... REMOVE AND DISPOSE TREE
CONC.	..... CONCRETE	----	..... SAWCUT CONTROL JOINT
BIT.	..... BITUMINOUS	----	..... EXPANSION JOINT
PED. PEDESTRIAN	---- ALIGN
PROP. PROPOSED	---- MEET AND MATCH
EX. EXISTING		
TYP. TYPICAL		
MH MANHOLE		

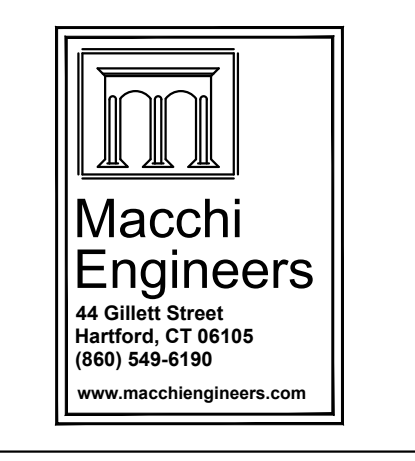


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**OIL TANK REMOVAL
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GRADING
 PLAN

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Project No. CF-RD 309

By: NS

Scale: AS NOTED

Issue Date: 9/06/2019



L-1.2

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**OIL TANK REMOVAL
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LAYOUT PLAN

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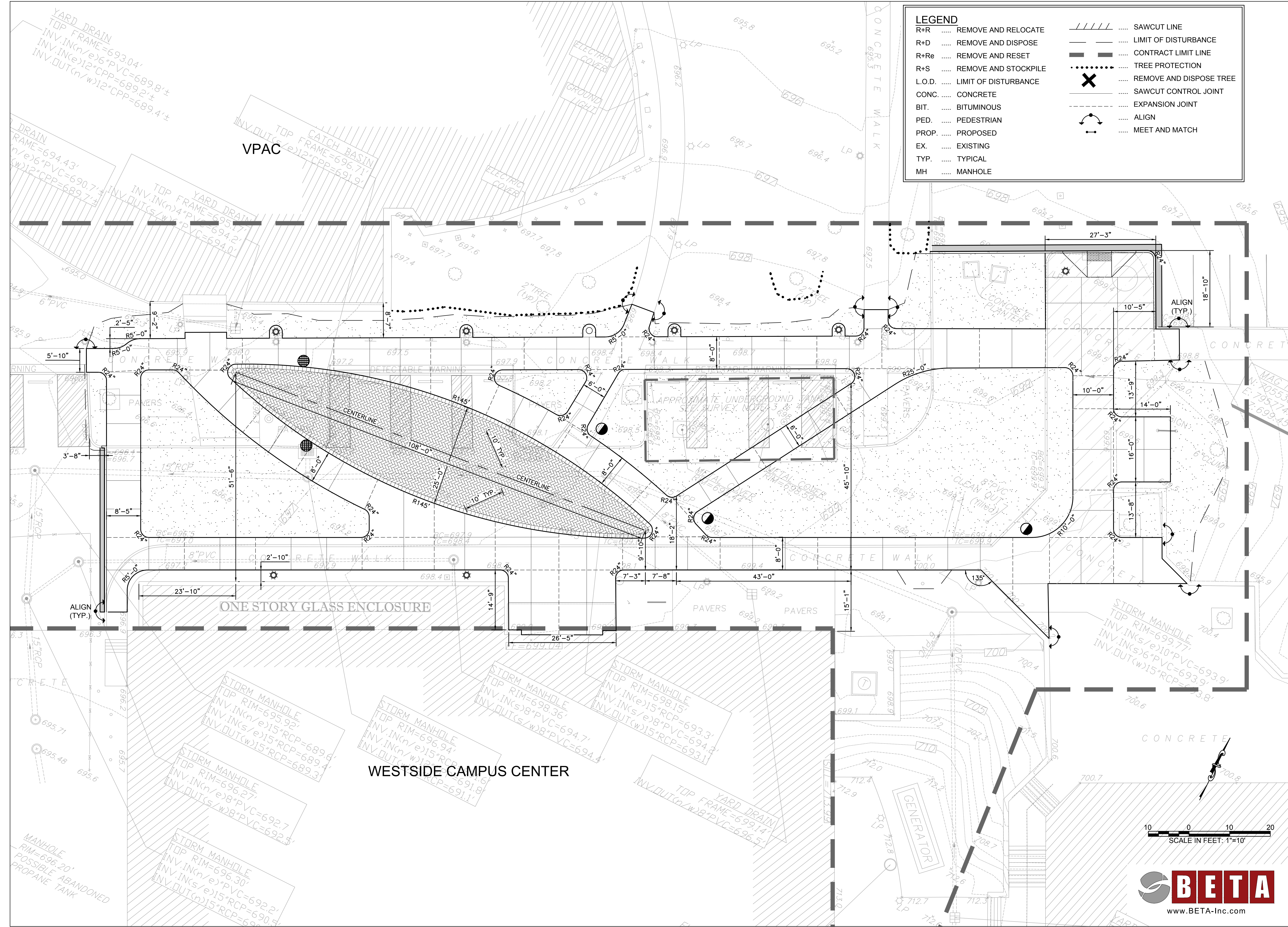
Project No. CF-RD 309

By: NS

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Issue Date: 9/06/2019

L-1.3



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SITE PLAN

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Project No. CF-RD 309

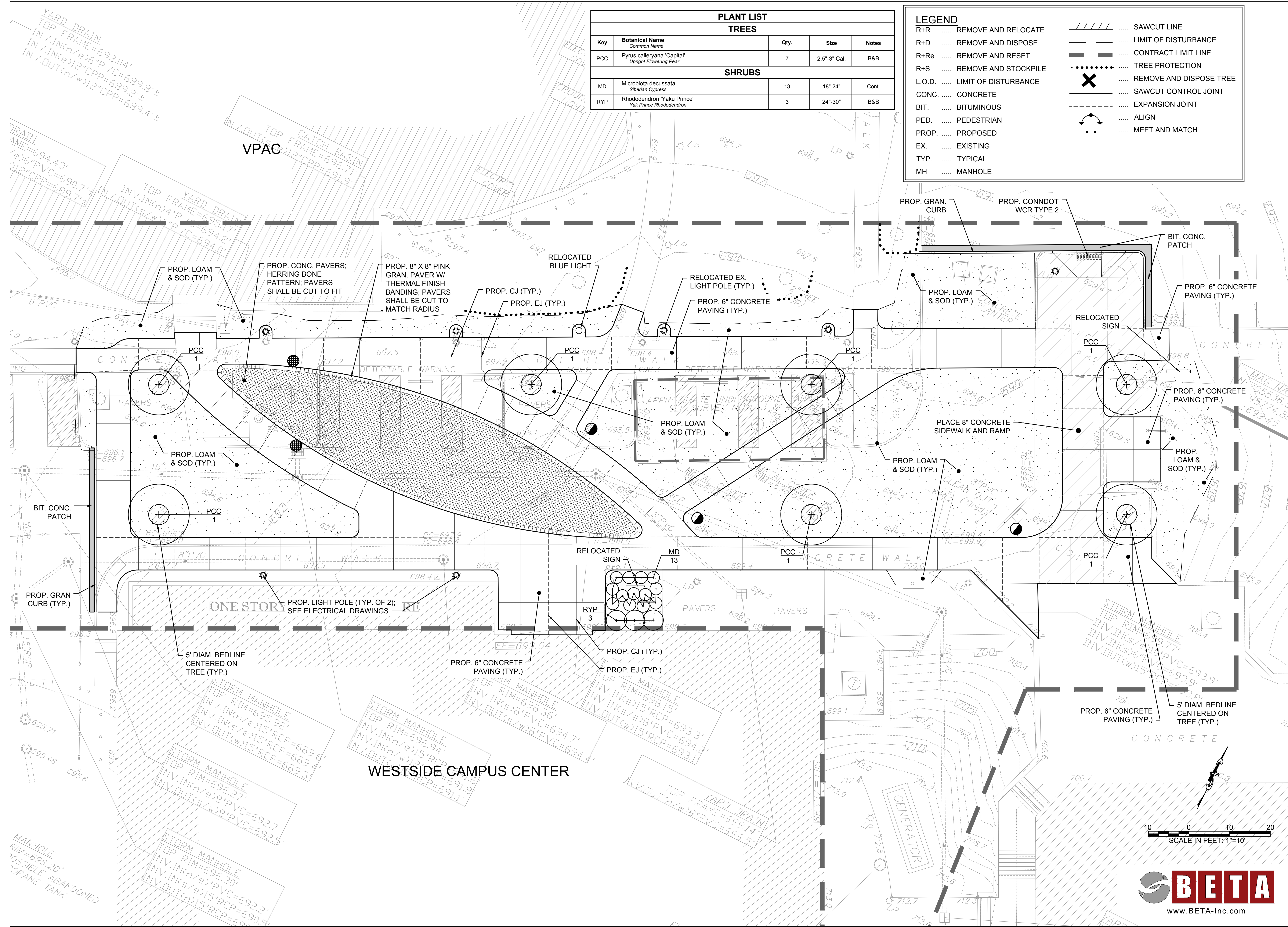
By: NS

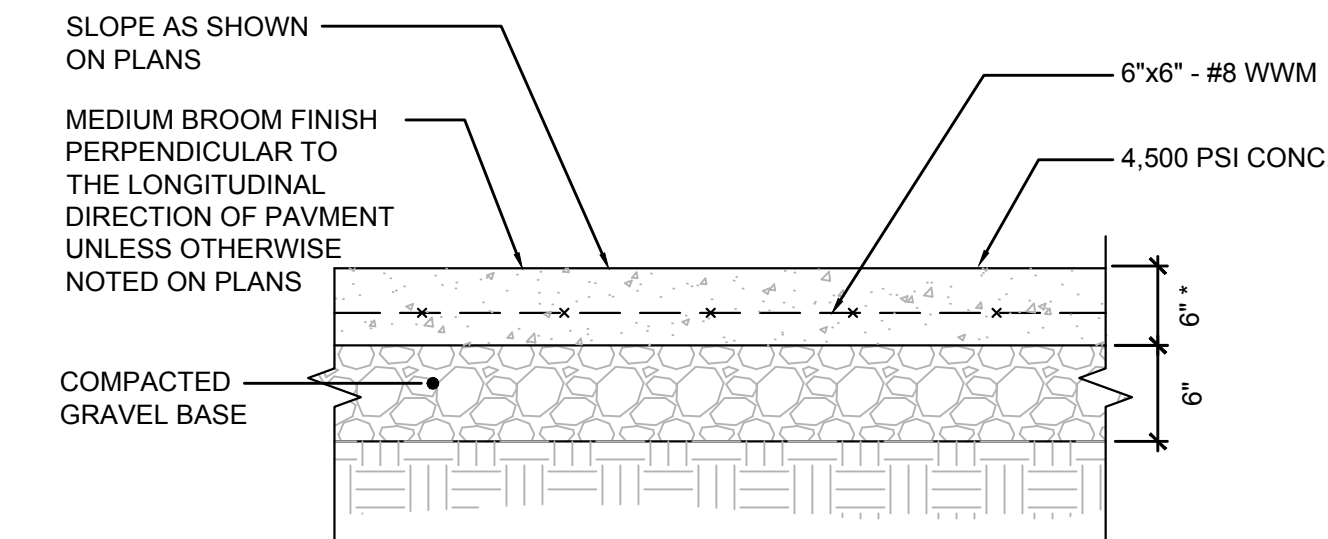
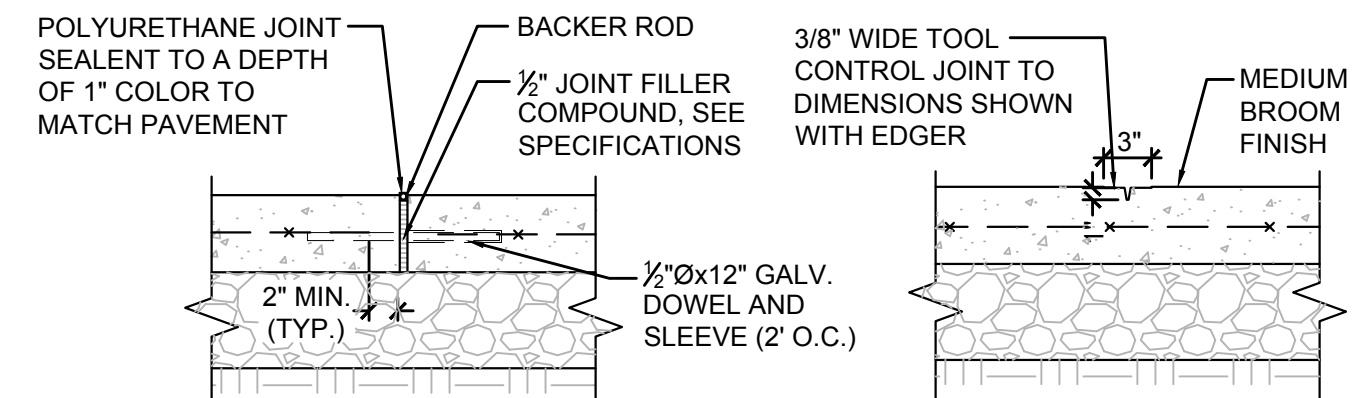
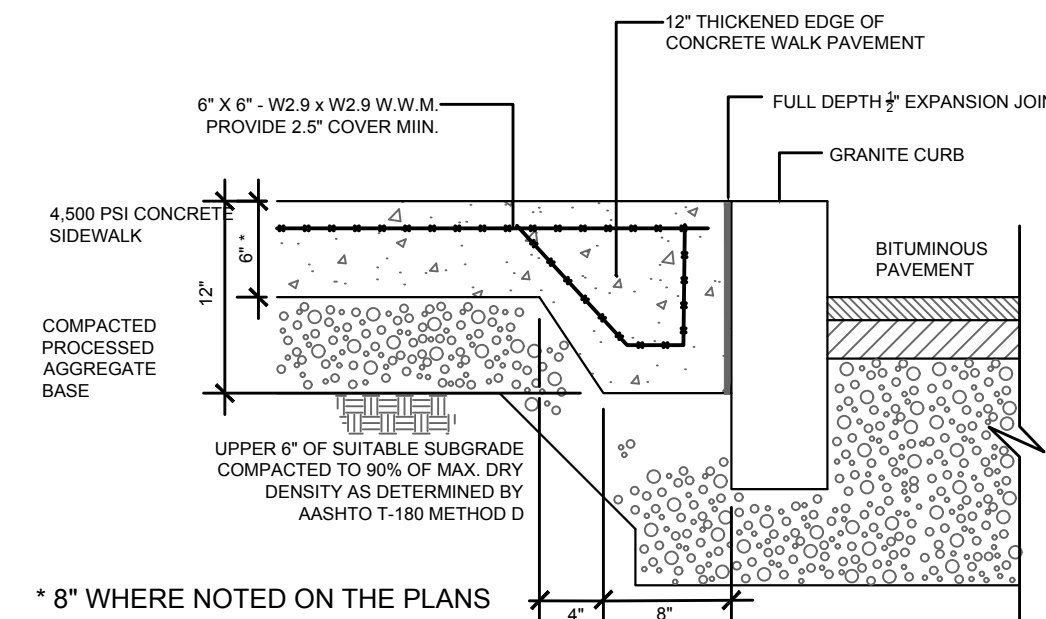
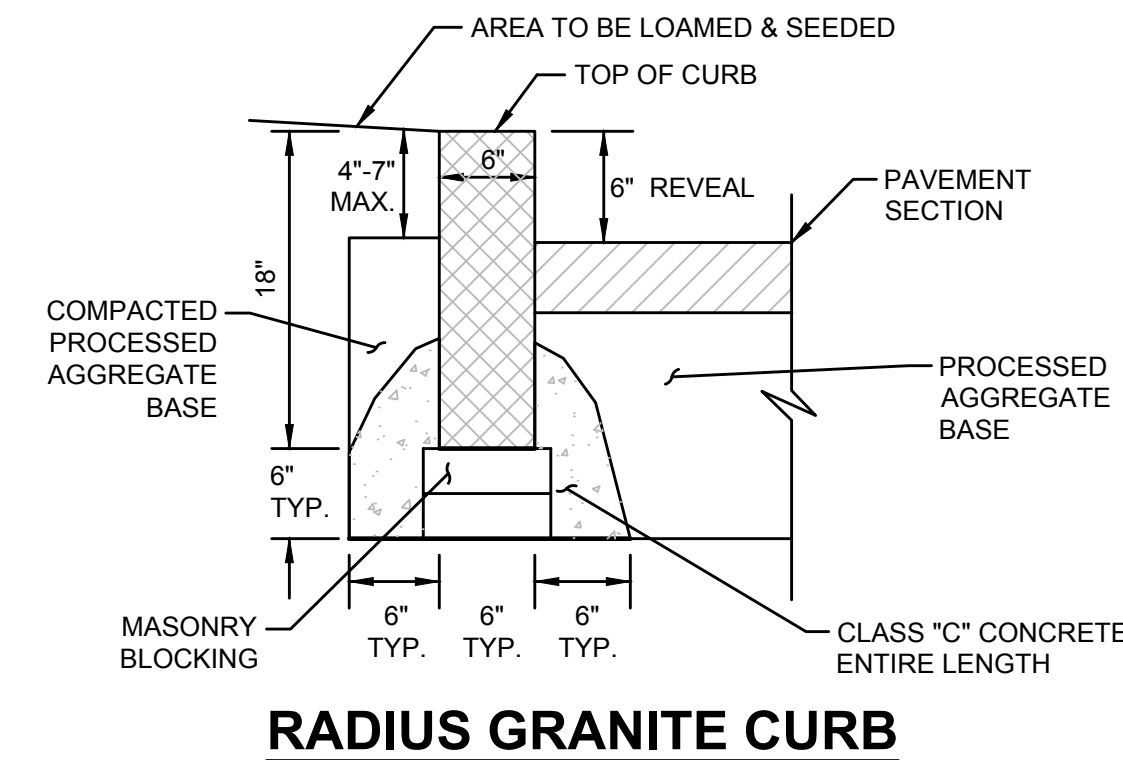
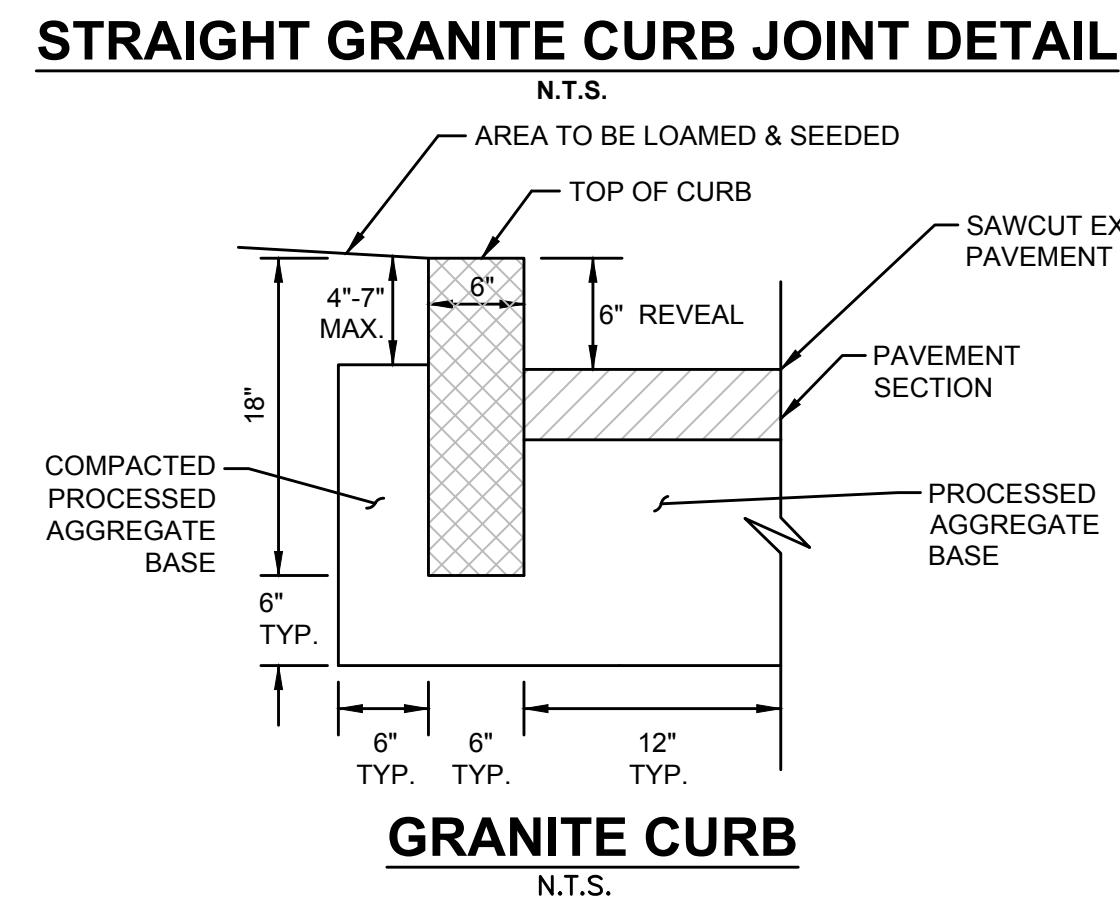
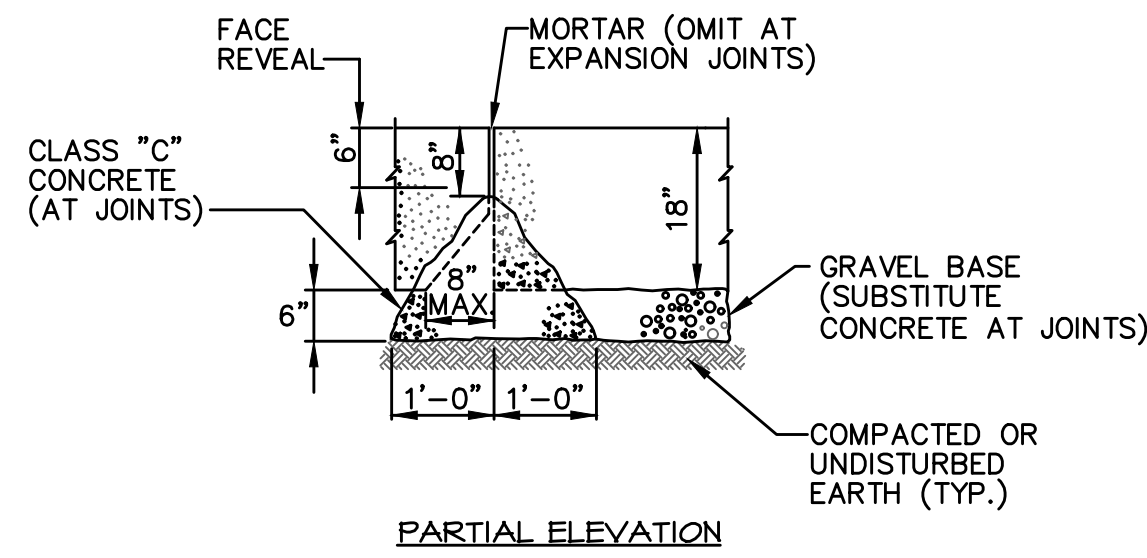
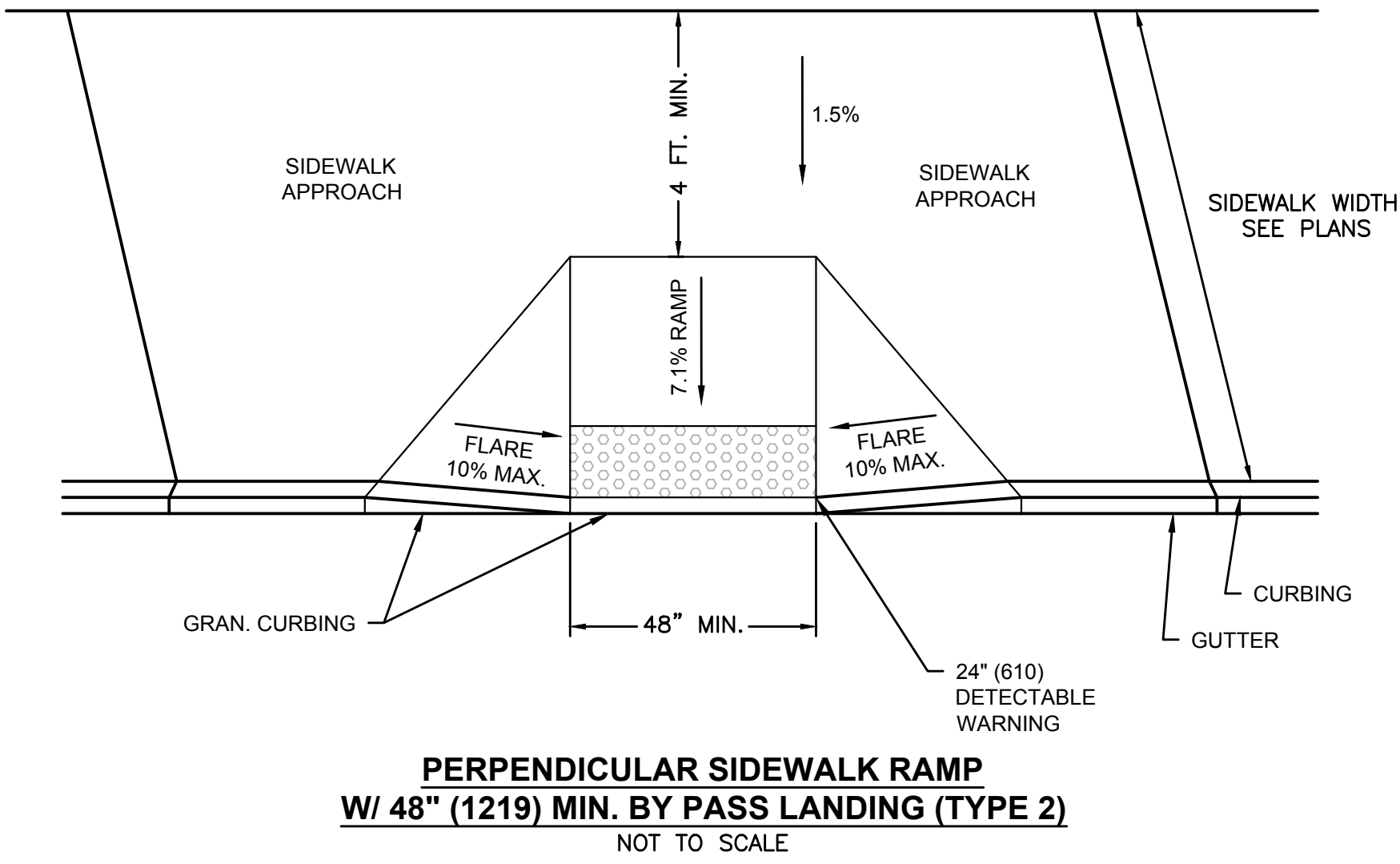
Scale: AS NOTED

Issue Date: 9/06/2019

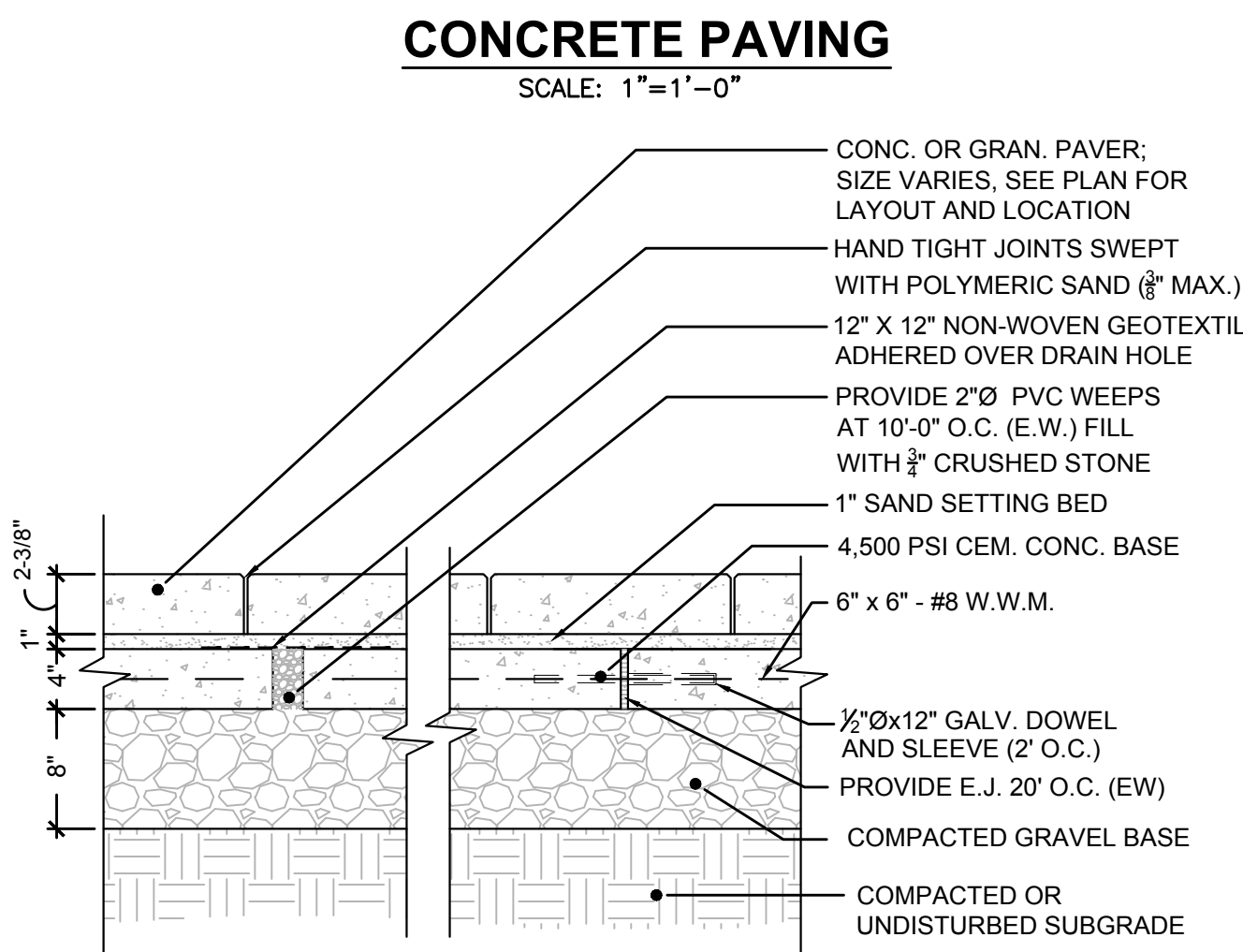
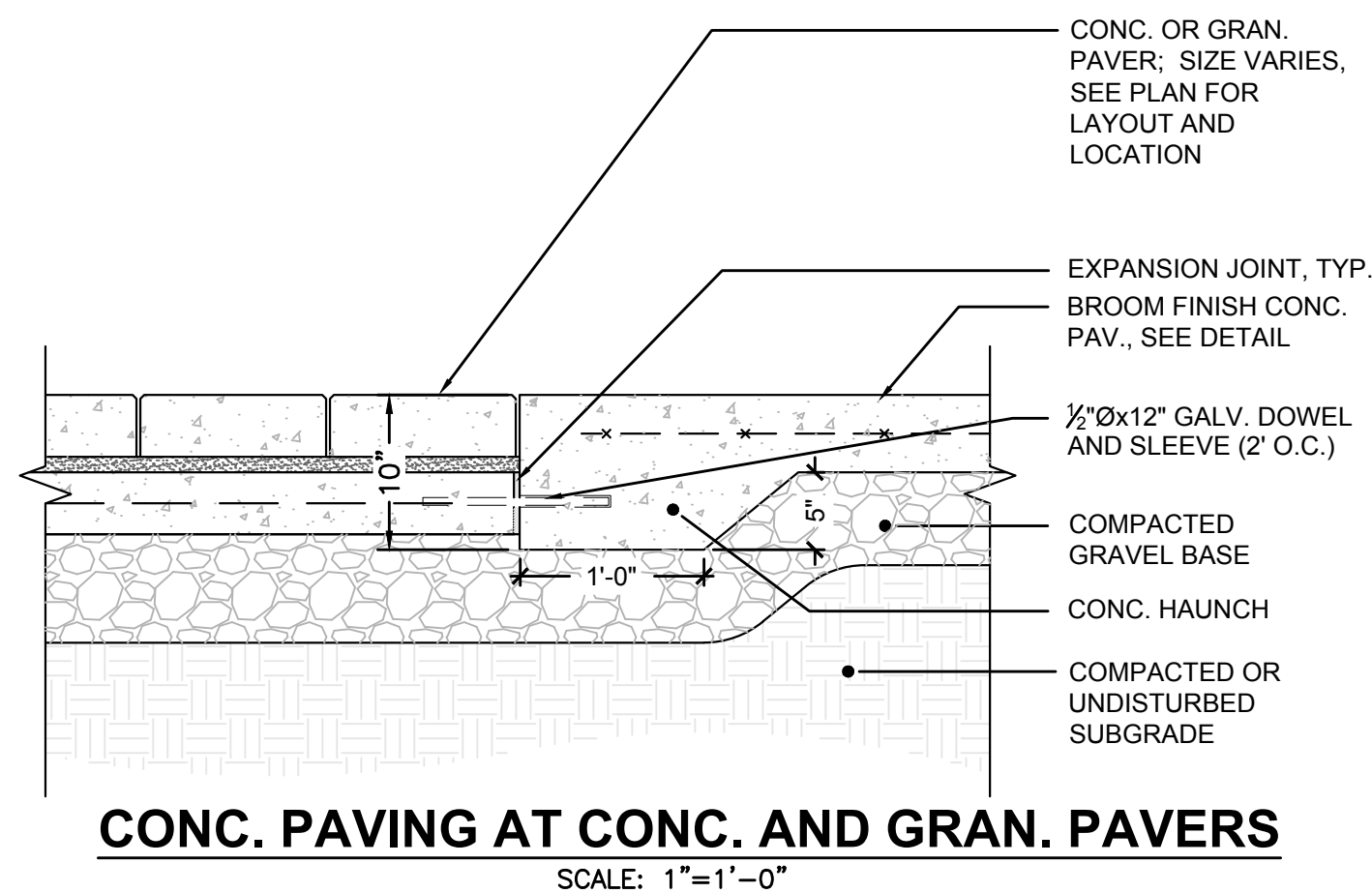
PLANT LIST				
TREES				
Key	Botanical Name Common Name	Qty.	Size	Notes
PCC	<i>Pyrus calleryana</i> 'Capital' Upright Flowering Pear	7	2.5"-3" Cal.	B&B
SHRUBS				
MD	<i>Microbiota decussata</i> Siberian Cypress	13	18"-24"	Cont.
RYP	<i>Rhododendron</i> 'Yaku Prince' Yak. Prince Rhododendron	3	24"-30"	B&B

LEGEND			
R+R	REMOVE AND RELOCATE	////	SAWCUT LINE
R+D	REMOVE AND DISPOSE	---	LIMIT OF DISTURBANCE
R+Re	REMOVE AND RESET	---	CONTRACT LIMIT LINE
R+S	REMOVE AND STOCKPILE	.....	TREE PROTECTION
L.O.D.	LIMIT OF DISTURBANCE	X	REMOVE AND DISPOSE TREE
CONC.	CONCRETE	---	SAWCUT CONTROL JOINT
BIT.	BITUMINOUS	---	EXPANSION JOINT
PED.	PEDESTRIAN	---	ALIGN
PROP.	PROPOSED	---	MEET AND MATCH
EX.	EXISTING	---	
TYP.	TYPICAL	---	
MH	MANHOLE	---	

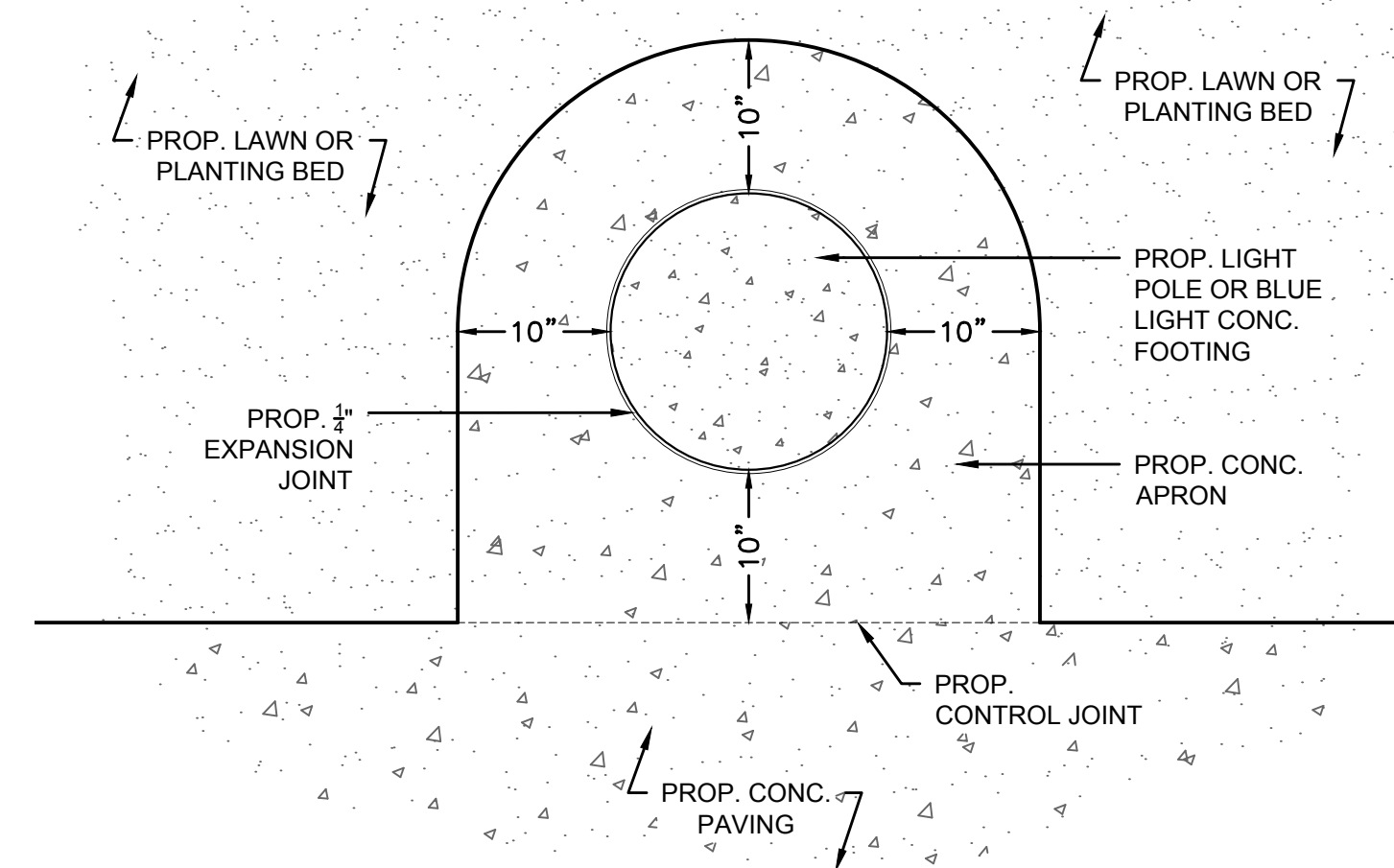
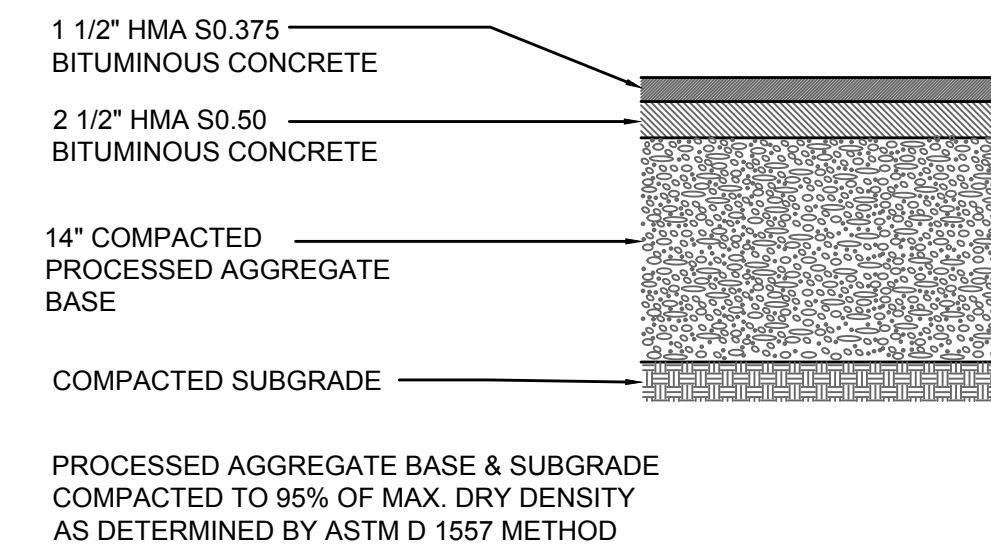




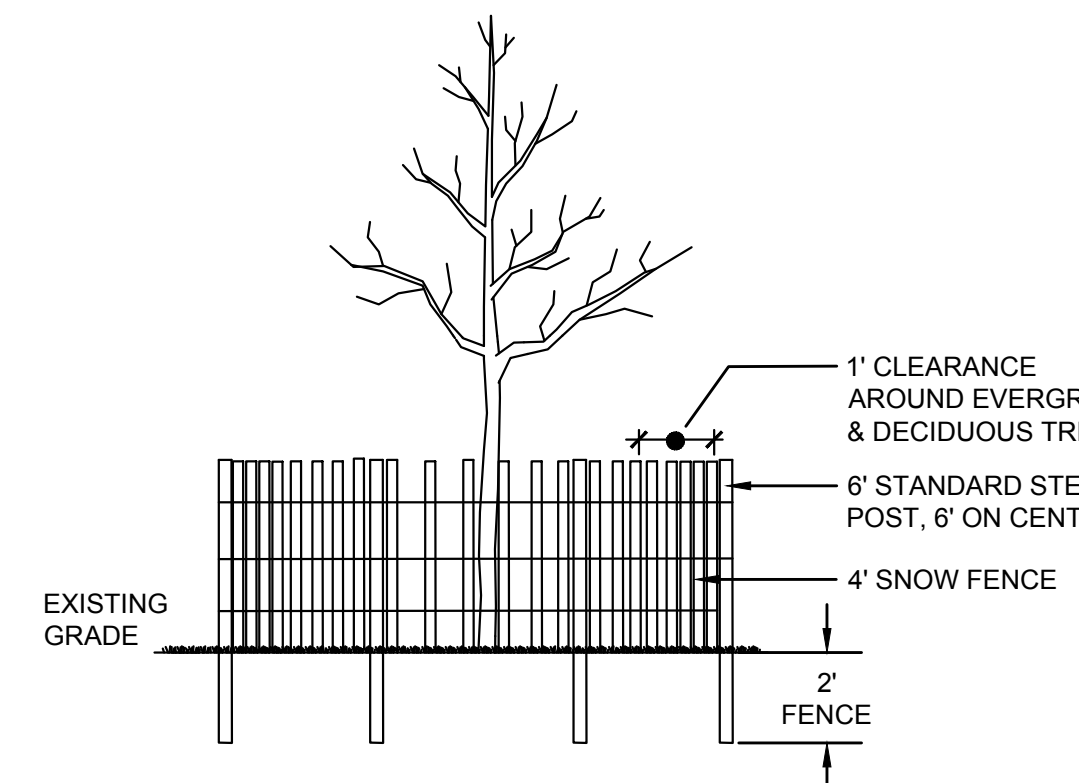
- NOTES:
1. EXPANSION JOINTS SHALL BE 20' O.C. UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTROL JOINTS SHALL BE AS NOTED ON THE PLANS.
3. * 8" WHERE NOTED ON THE PLANS.



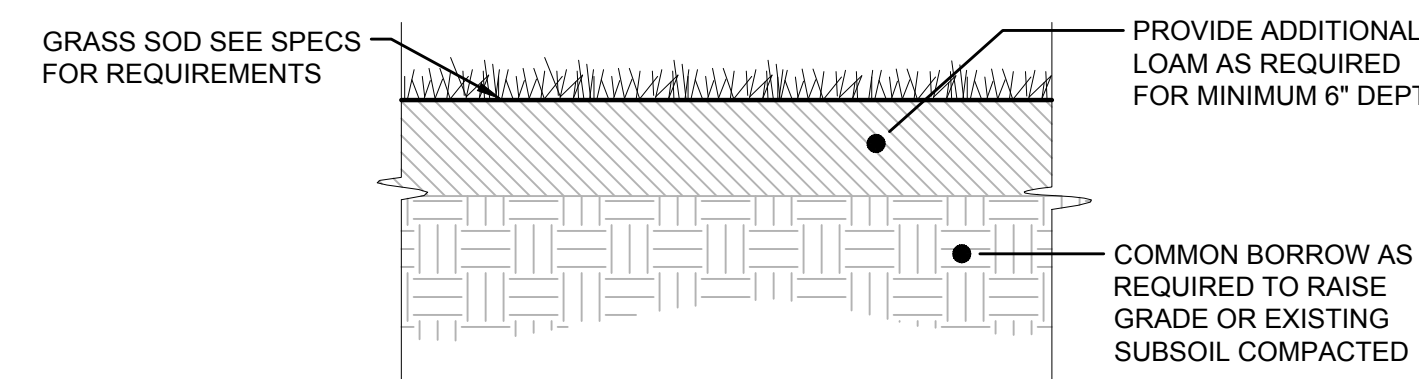
- NOTES:
1. SEE PLANS FOR PATTERN AND LIMITS.
2. SLOPE PAVEMENT PER GRADING PLANS.



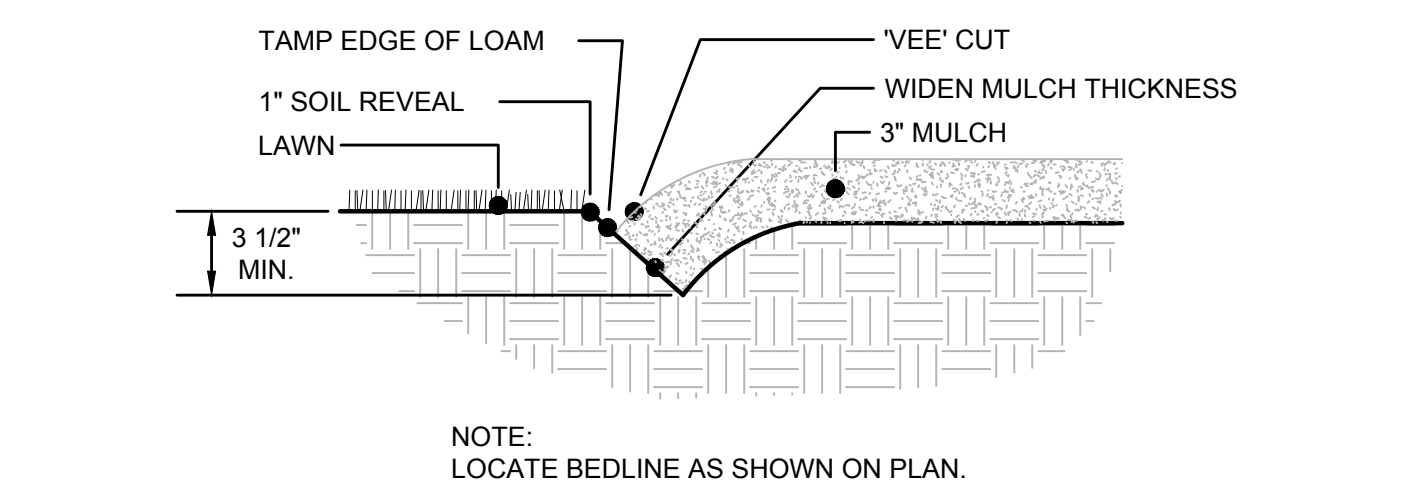
RELOCATED LIGHT POLE AND BLUE LIGHT APRON
SCALE: 1"=1'-0"



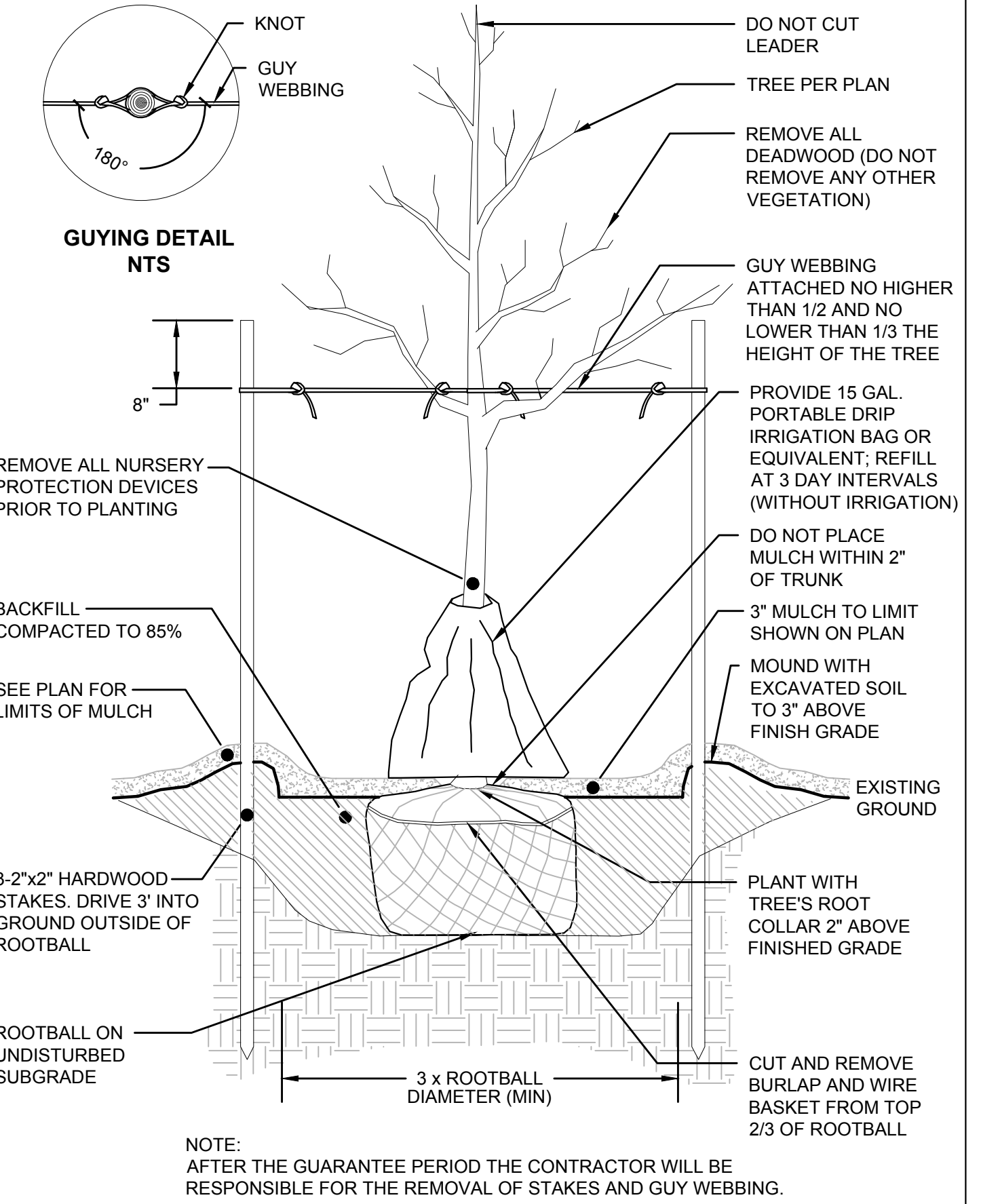
TREE PROTECTION
NOT TO SCALE



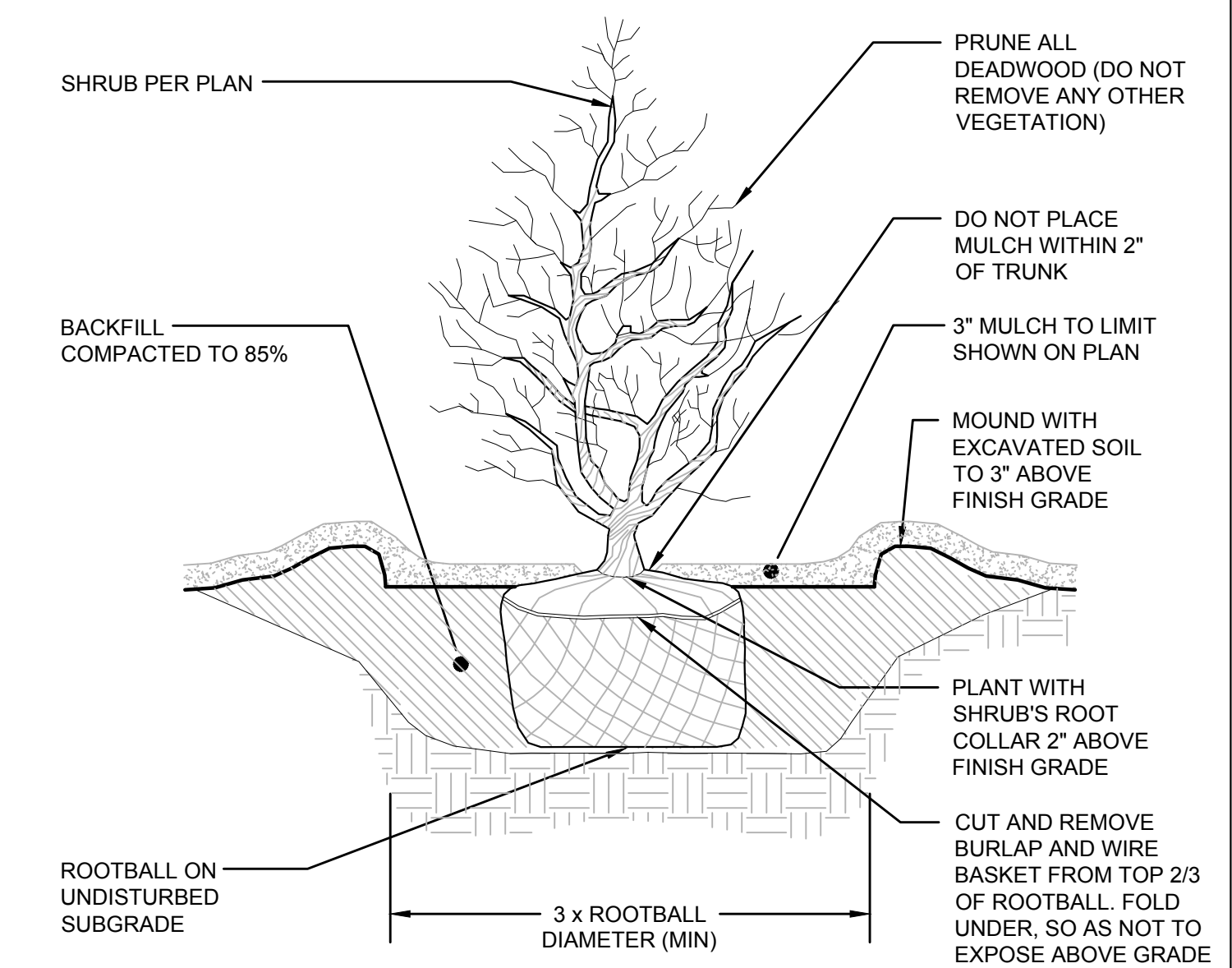
LOAM AND SOD
NOT TO SCALE



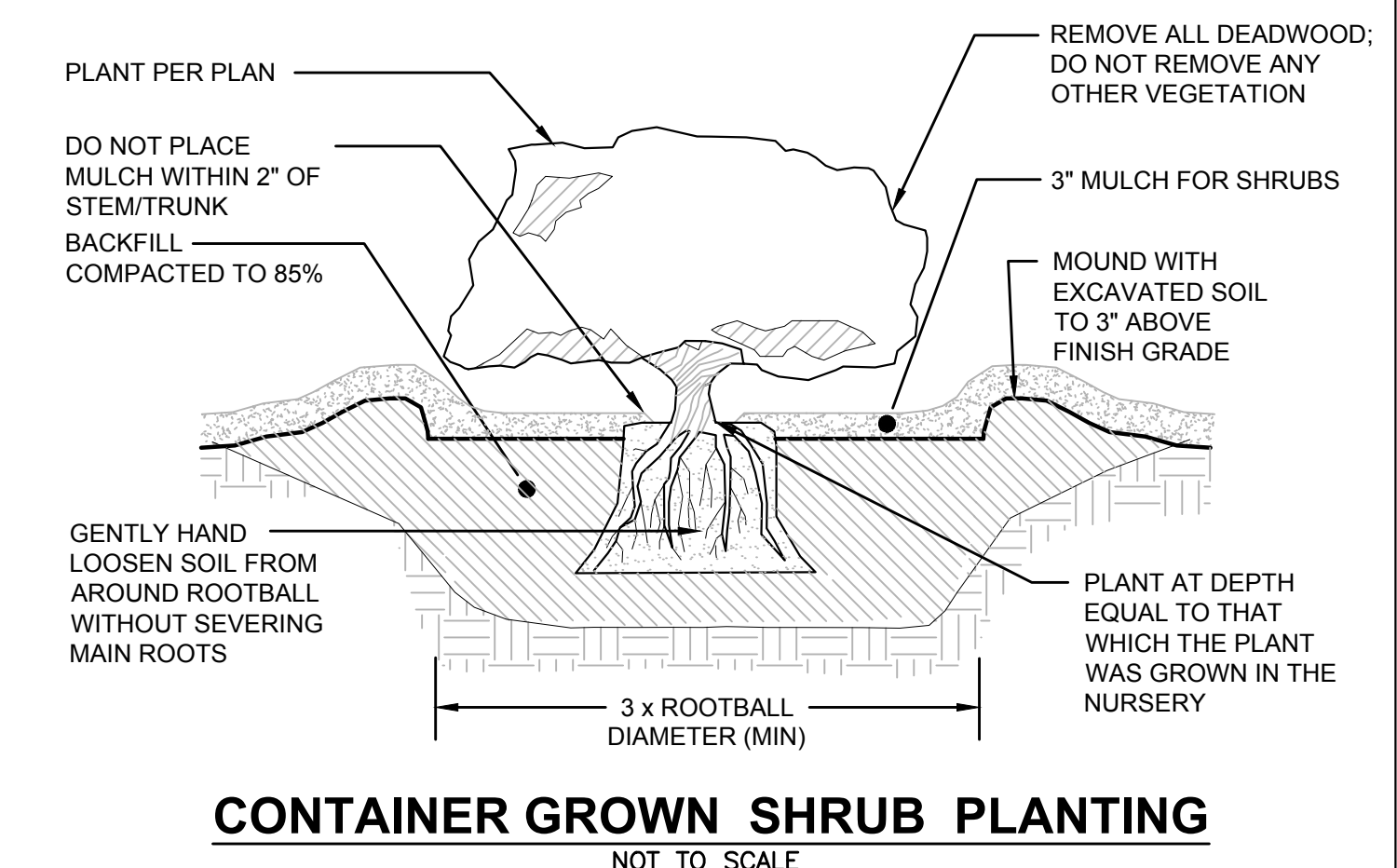
BEDLINE
NOT TO SCALE



DECIDUOUS TREE STAKING & PLANTING
NOT TO SCALE

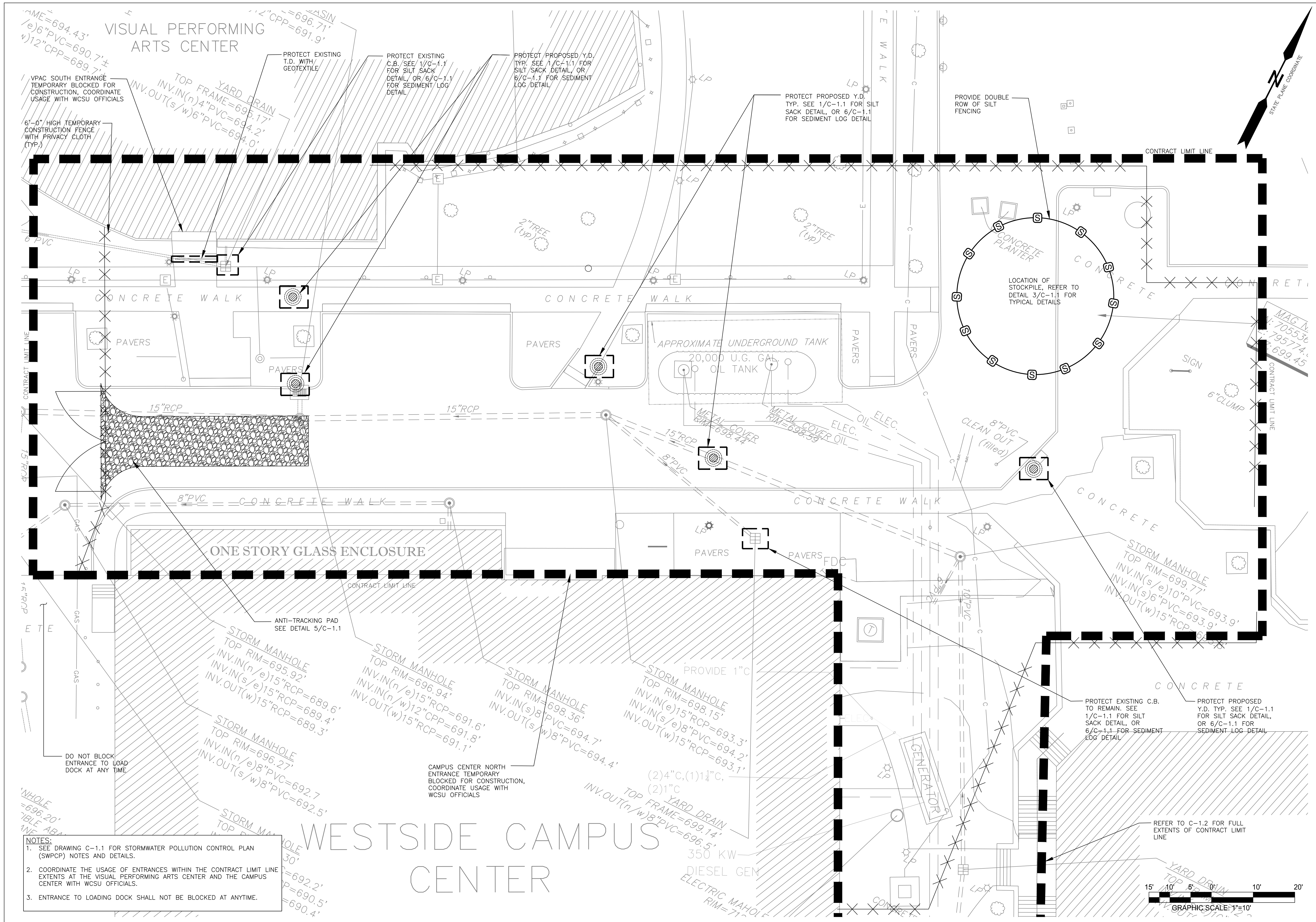


SHRUB PLANTING
NOT TO SCALE



CONTAINER GROWN SHRUB PLANTING
NOT TO SCALE

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No.	Date



- NOTES:**
- SEE DRAWING C-1.1 FOR STORMWATER POLLUTION CONTROL PLAN (SWPCP) NOTES AND DETAILS.
 - COORDINATE THE USAGE OF ENTRANCES WITHIN THE CONTRACT LIMIT LINE EXTENTS AT THE VISUAL PERFORMING ARTS CENTER AND THE CAMPUS CENTER WITH WCSU OFFICIALS.
 - ENTRANCE TO LOADING DOCK SHALL NOT BE BLOCKED AT ANYTIME.

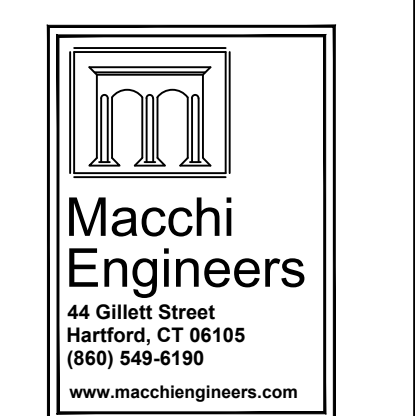
1 STORM WATER POLLUTION CONTROL PLAN (SWPCP)
1" = 10'-0"



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**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**STORM WATER
POLLUTION
CONTROL
PLAN (SWPCP)**

**100% CD
SUBMISSION**

Project No. CF-RD 309

By: JWK

Scale: AS NOTED

Issue Date: 9/6/2019

C-1.0

SEDIMENT AND EROSION CONTROL PLAN

1) PROJECT DESCRIPTION

THIS PROJECT IS PART OF THE UNDERGROUND STORAGE TANK REMOVAL AND CREATION OF A PEDESTRIAN SPACE BETWEEN THE VISUAL PERFORMING ARTS CENTER AND THE CAMPUS CENTER ON THE WESTERN CONNECTICUT STATE UNIVERSITY WESTSIDE CAMPUS. THE SPECIFIC SITE WORK INCLUDES REMOVING THE EXISTING ROADWAYS, GRADING, EROSION CONTROL MEASURES, SIDEWALKS AND THE REMOVAL OF AN EXISTING UNDERGROUND STORAGE TANK.

STORM RUNOFF FROM THE PROJECT AREA AND SURROUNDING SECTION OF THE CAMPUS WILL BE COLLECTED AND ROUTED TO THE EXISTING STORM SEWER SYSTEM OF THE SITE.

WORK INCLUDES THE CONSTRUCTION OF SIDEWALKS, RAMPS, AND STORM WATER DRAINAGE. ALSO, THE WORK INCLUDES CLEARING AND GRUBBING DESIGNATED AREAS, PROTECTING EXISTING PLANTINGS TO REMAIN, TOPSOIL STRIPPED AND STOCKPILED, SITE LANDSCAPING, AND ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED.

A. MAINTENANCE/REPAIR OF EROSION & SEDIMENTATION CONTROL MEASURES:

DURING ALL STAGES OF CONSTRUCTION, AS WELL AS AFTER CONSTRUCTION IS COMPLETE, MAINTENANCE AND REPAIR OF EROSION & SEDIMENTATION CONTROL DEVICES IS ESSENTIAL. THE FOLLOWING ARE MINIMUM REQUIREMENTS:

PRE-CONSTRUCTION

A PRE-CONSTRUCTION MEETING WITH THE UNIVERSITY STAFF SHALL BE HELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL HAVE A SUBSEQUENT MEETING TO ALLOW THE ENGINEER TO INSPECT THE INSTALLED EROSION CONTROL MEASURES.

DURING CONSTRUCTION

- INSPECTION OF EROSION PRONE AREAS SHOULD OCCUR WITHIN 12 HOURS AFTER RAINFALL EVENTS IN EXCESS OF ONE INCH PER HOUR INTENSITY OR A RAINFALL EVENT WITH A TOTAL PRECIPITATION OF 1/2 INCH OR MORE. NOTE THAT THIS WILL REQUIRE THE INSTALLATION OF A RAINFALL GAUGE ON THE SITE, WHICH SHOULD BE MONITORED AND A RECORD KEPT OF EACH RAINFALL EVENT. CONCERNS SHOULD BE LOGGED AND REPAIRS SHOULD BE MADE IMMEDIATELY. FOR RAINFALL EVENTS OVER A PERIOD OF MORE THAN ONE DAY, INSPECTIONS AS DESCRIBED ABOVE SHOULD BE PERFORMED EACH DAY.
- WEEKLY INSPECTIONS OF ALL EROSION & SEDIMENTATION CONTROL DEVICES, EROSION PRONE AREAS OR OTHER AREAS OF CONCERN SHOULD BE PERFORMED. INSPECTIONS SHOULD INCLUDE ALL SILT FENCE, HAY BALES, STONE CHECK DAMS, CATCH BASIN SUMPS, TEMPORARY SEDIMENTATION BASINS, DETENTION POND(S), HAY SLOPE MATTING, ETC. AND REPAIRS SHOULD BE MADE AS NECESSARY.
- LOGS OF ALL INSPECTIONS AND REPAIRS SHOULD BE KEPT ON SITE, INCLUDING DATES & CONCERNS NOTED DURING INSPECTIONS, TIMING OF REPAIRS & ACTIONS TO BE TAKEN, DATES OF ACTUAL ACTIONS & RESPONSES, AND INITIALS OF THOSE INVOLVED.
- ALL SILT FENCING, HAY MATTING AND OTHER EROSION CONTROL DEVICES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.

POST-CONSTRUCTION

- INSPECT EROSION PRONE AREAS MONTHLY FOR THE FIRST SIX (6) MONTHS, AND BI-MONTHLY FOR THE SECOND SIX (6) MONTHS AFTER CONSTRUCTION IS COMPLETE. ALL SILT FENCING AND EROSION CONTROL DEVICES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- PARKING AREAS AND ACCESS DRIVES SHOULD BE SWEEP CLEAN ANNUALLY EACH SPRING IMMEDIATELY AFTER WINTER SANDING IS NO LONGER NEEDED.
- SEDIMENT FROM CATCH BASIN SUMPS AND MANHOLES SHOULD BE PERFORMED YEARLY AFTER WINTER SANDING IS COMPLETE.
- IF PROVIDED PERMANENT DETENTION PONDS SHOULD BE INSPECTED MONTHLY AND ANY SEDIMENTATION AT THE LOW LEVEL OUTLET PIPES SHOULD BE REMOVED IMMEDIATELY. SEDIMENT IN THE PERMANENT SEDIMENTATION BASINS SHOULD BE REMOVED IF ANY DEPOSIT AREA REACHES 18" TO 24" IN DEPTH.
- ANY ERODED AREAS, OR MALFUNCTIONING COMPONENTS OF THE DRAINAGE SYSTEM, SHOULD BE REPAIRED IMMEDIATELY.

STANDARDS & GUIDELINES

- FOR WORK WITHIN PUBLIC STREETS: CITY OF DANBURY APPLICABLE CONSTRUCTION AND DEVELOPMENT STANDARDS INCLUDING THE PLANNING, ZONING, SUBDIVISION AND WETLANDS REGULATIONS.
- REQUIREMENTS, SPECIFICATIONS, DETAILS AND INSTRUCTIONS AS SET FORTH IN THESE DOCUMENTS.
- CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL (2002), AS AMENDED, AND THE CONNECTICUT D.O.T. "ON SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".
- CONNECTICUT D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 817 SHALL BE USED FOR MATERIAL REQUIREMENTS, TECHNICAL SPECIFICATIONS AND CONSTRUCTION METHODS.

GENERAL NOTES

- GRADING & CLEARING: THE SEQUENCE OF GRADING AND CONSTRUCTION ACTIVITIES MAY BE MODIFIED TO SUIT ACTUAL CONDITIONS ENCOUNTERED IN THE FIELD DURING CONSTRUCTION WHEN APPROVED BY THE ENGINEER. OTHERWISE THE FOLLOWING SEQUENCE OF EROSION & SEDIMENTATION CONTROL WILL BE IMPLEMENTED FOR EACH PROPOSED PHASE OF CONSTRUCTION. THE FOLLOWING NOTES WILL APPLY SEPARATELY TO EACH OF THE PROPOSED PHASES AND CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- INSTALLATION OF TEMPORARY BASINS (IF REQUIRED BY THE ENGINEER, LOCATION TO BE APPROVED BY THE ENGINEER AND/OR UNIVERSITY) SHALL BE DONE ONLY WHEN A SAFE AND STABILIZED OUTLET EXISTS OR CAN BE INSTALLED PRIOR TO INSTALLATION. FOR EXAMPLE STABILIZED OUTFALL CHANNELS OR THE INSTALLATION OF A FUNCTIONING DRAINAGE SYSTEM MUST EXIST PRIOR TO CONSTRUCTION OF A SEDIMENT/DISCHARGE BASIN. SEDIMENT/DISCHARGE BASINS SHALL BE GRADED SO AS TO RETAIN WATER TO A DEPTH OF NO MORE THAN 2 FEET.
- LIMIT CLEARING OF VEGETATION AND TOPSOIL TO AREAS DESIGNATED FOR IMMEDIATE CONSTRUCTION. AREAS TO BE LEFT EXPOSED TO EROSION FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED AFTER ROUGH GRADING AS MAY BE SHOWN ON THE CONSTRUCTION PLANS.
- KEEP SOIL EXPOSED TO EROSION AT A MINIMUM IN AREA AND TIME.
- MAINTAIN THE MAXIMUM ATTAINABLE BUFFER BETWEEN CONSTRUCTION ACTIVITIES AND WETLANDS AND WATERCOURSES. MINIMUM BUFFER ZONES SHALL BE ADHERED TO UNLESS PREVIOUSLY APPROVED OR PERMITTED.
- CLEAN DEPOSITED MATERIAL AS REQUIRED. THIS TYPICALLY SHALL MEAN WHEN SILT REACHES 50% OF THE CAPACITY OF A SEDIMENT BASIN, 1 FOOT DEEP IN THE SUMP OF A CATCH BASIN, AND HALF THE HEIGHT OF AN EROSION AND SEDIMENT CONTROL DIKE OR BERM, CONTROL DIKE OR BERM.
- EXPOSED AREA IN FINAL GRADED SHAPE SHOULD BE DRESSED WITH TOPSOIL AND SEEDED, SEASON PERMITTING OR MULCHED FOR EROSION PROTECTION.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROLS UNTIL SUCCESSFUL RE-ESTABLISHMENT OF VEGETATIVE COVER AND THE CESSATION OF EROSION.
- HAY BALE BARRIERS MAY REMAIN IN PLACE AFTER SUCCESSFUL RE-ESTABLISHMENT OF VEGETATIVE COVER AND THE CESSATION OF EROSION WHEN THE REMOVAL OF SUCH BARRIERS MAY RESULT IN ADDITIONAL SOIL EROSION UP SLOPE OF WETLANDS, WATERCOURSES OR STORM DRAIN INLETS. ADDITIONALLY, THE BALES MAY ONLY BE RETAINED IN PLACE TO DEGRADE NATURALLY WHEN THE BARRIER WILL NOT RESTRICT THE FLOW OF CONCENTRATED RUNOFF OR INTERFERE WITH THE FUNCTIONING OF STORM DRAINAGE AND OTHER CONSTRUCTED OR EXISTING COMPONENTS OF THE PROPOSED DEVELOPMENT. THE ENGINEER OR UNIVERSITY MUST APPROVE OF THE LOCATIONS WHERE HAY BALES MAY BE LEFT IN PLACE.
- AFTER SUCCESSFUL RE-ESTABLISHMENT OF VEGETATIVE COVER AND CESSATION OF EROSION, AND IF NOT LEFT IN PLACE AS NOTED ABOVE, HAY BALES MAY BE BROKEN UP BY HAND AND SPREAD IN THE GENERAL AREA INITIALLY INSTALLED.
- STOCK PILE AREAS (IF REQUIRED BY THE ENGINEER, LOCATION TO BE APPROVED BY THE ENGINEER AND/OR UNIVERSITY): THE FOLLOWING SEQUENCE FOR USE OF STOCKPILE AREAS SHALL BE USED.
 - AREA TO BE USED SHALL BE IDENTIFIED WITH FLAGGING IN THE FIELD & SHALL BE LOCATED OUTSIDE OF ALL WETLANDS AND REGULATED BUFFER ZONES.
 - AREA SHALL THEN BE CLEARED AND GRUBBED AND GENERALLY BE MADE READY FOR USE.
 - THE STOCKPILE AREA SHALL BE IMMEDIATELY SURROUNDED WITH TWO ROWS OF SILT FENCE.
 - DURING USE, THE CONTRACTOR SHALL INSURE THAT THE GENERAL STOCK PILE USE AREA IS MAINTAINED SUCH THAT THERE IS NO SEDIMENTATION OF SURROUNDING LAND AREA. THE STOCK PILES SHALL BE COVERED AND/OR TEMPORARILY SEEDED TO PREVENT RUNOFF AND SEDIMENTATION IF NECESSARY.
 - IMMEDIATELY UPON COMPLETION OF USE AS A STOCKPILE AREA, THE LAND SHALL BE RESTORED.
- ALL ROADWAYS IN THE VICINITY OF THE PROPOSED PROJECT SHALL BE KEPT FREE OF DUST AND SEDIMENT, AND SHALL BE CLEANED PERIODICALLY AS REQUIRED BY CONSTRUCTION ACTIVITIES AND PRIOR TO ANY RAINFALL AND RUNOFF EVENT AS DIRECTED BY THE UNIVERSITY. METHODS USED TO MEET THIS REQUIREMENT SHALL CONFORM TO THE ENVIRONMENTAL MANAGEMENT SPECIFICATIONS AND THE SECTIONS ON STANDARDS & GUIDELINES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL MEASURES DURING ALL STORM EVENTS AS REQUIRED TO PREVENT DAMAGE OR SEDIMENTATION TO ADJACENT LAND, STREAMS AND PROPERTY.
- CONTRACTOR SHALL MAKE ANY REPAIRS OR RESTORATION TO PROPERTY OR ENVIRONMENT CAUSED BY SEDIMENTATION.

- ANY WORK AFFECTING WETLANDS SHALL BE SCHEDULED DURING LOW FLOW MONTHS.

16) ALL WORK AND ALL ACTIVITIES SHALL FIRST BE IN COMPLIANCE WITH APPLICABLE PERMITS FOR THIS PROJECT. SECOND ALL WORK AND ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF THE ENVIRONMENTAL MANAGEMENT SPECIFICATIONS WHICH ARE PART OF THESE PLANS. LASTLY, WORK AND ACTIVITIES SHALL BE CONSISTENT WITH THESE EROSION AND SEDIMENT CONTROL PLANS AS A MINIMUM.

D. EROSION AND SEDIMENT CONTROL NOTES

- LIMITED CLEARING AND GRUBBING ACTIVITIES SHALL COMMENCE FIRST TO ENABLE THE INSTALLATION/CONSTRUCTION OF PERIMETER HAY BALE DIKES, CONSTRUCTION ENTRANCES SEDIMENT ANTI-TRACKING PAD, STAGING AREAS AND THE INSTALLATION OF CRUSHED STONE BERMS AT PROPOSED STORM DRAIN OUTFALL AREAS. SILT FENCE SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION WHICH SHOULD BE CLEARLY MARKED BY FLORESCENT SURVEY FLAGGING OR FENCING BEFORE CLEARING AND GRUBBING TAKES PLACE.
- DURING ALL PHASES, PERMANENT AND/OR TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AT PROPOSED STORM DRAINAGE INLETS AND/OR OUTFALLS. AT OUTFALLS A DOUBLE STAGGERED ROW OF HAY BALES SHALL BE INSTALLED DOWN SLOPE OF THE OUTLETS OF ANY TEMPORARY BASINS AND A CRUSHED STONE SEDIMENT FILTER BERM SHALL BE INSTALLED JUST UP SLOPE OF THE DOUBLE STAGGERED ROW OF HAY BALES.
- UPON INSTALLATION OF THE ABOVE MEASURES, A CONSTRUCTION ENTRANCE ANTI-TRACKING PAD SHALL BE INSTALLED (LOCATION TO BE APPROVED BY THE ENGINEER AND/OR UNIVERSITY) PRIOR TO THE CLEARING AND GRUBBING FOR THE PROPOSED CONSTRUCTION ACTIVITIES MAY COMMENCE. TEMPORARY DIVERSION BERTMS/DITCHES SHALL BE CONSTRUCTED AS NECESSARY FOR INTERMEDIATE EXCAVATION STAGES. DIVERSIONS AND OTHER TEMPORARY INTERMEDIATE MEASURES SHALL BE APPROVED BY THE UNIVERSITY IN ADVANCE AND SHALL OUTLET RUNOFF TO SWALES WITH CHECK HAY BALE DAMS AND/OR TO TEMPORARY SEDIMENT BASINS.
- EXCAVATION FOR CONSTRUCTION OF THE PROPOSED ROADWAY SHALL NOT COMMENCE UNTIL ASSOCIATED DRAINAGE & SEDIMENTATION DEVICES FOR THE AREA ARE IN PLACE. IT SHOULD BE NOTED THAT EXTENSIVE AND BY WATERING WITHIN THE LIMITS OF THE CUT AND FILL LINE INDICATED ON THE PLANS MAY REQUIRE ADDITIONAL TEMPORARY SWALES AND DIVERSION IN ORDER TO DIVERT AND DIRECT RUNOFF AND SEEPAGE TO THE PROPOSED DISCHARGE POINTS UNTIL THE PERMANENT STORM DRAINAGE SYSTEM IS INSTALLED. THESE TEMPORARY MEASURES MUST BE APPROVED IN ADVANCE AND SHOULD BE INSPECTED REGULARLY FOR OPERATIONAL EFFICIENCY BY THE CONTRACTOR. UTILIZATION OF TEMPORARY INLETS AND DIVERSION SWALES UNTIL THE DRAINAGE SYSTEM IS COMPLETE IS EXPECTED. THESE INLETS/DIVERSIONS SHALL BE CONSTRUCTED SO AS TO PREVENT EROSION AND SEDIMENTATION.

- MEASURES TO CONTROL CONSTRUCTION DEBRIS AND DUST SHALL BE IMPLEMENTED ON AN AS NEEDED BASIS AND AS DIRECTED BY THE TOWN. DUST SHALL BE CONTROLLED BY LIMITING THE AREA OF SOIL EXPOSED AND BY WATERING WITHOUT CHEMICAL ADDITIVES. CONSTRUCTION DEBRIS SHALL BE COLLECTED AS NECESSARY AND AT LEAST PRIOR TO THE END OF WORK EACH WEEK.
- IF REQUIRED SOIL & ROCK STOCK PILE AREAS SHALL BE APPROVED IN ADVANCE AND HAY BALE AND/OR SILT FENCE BARRIERS SHOULD BE INSTALLED AROUND STOCK PILES AND DOWN SLOPE OF THESE AREA PRIOR TO STOCK PILING MATERIAL. ANY SOIL TO BE STORED FOR MORE THAN A MONTH SHOULD BE COVERED OR SEEDED AND/OR MULCHED AFTER BEING PLACED.
- THE BASE MATERIAL FOR THE DRIVES AND PARKING AREAS SHALL BE PLACED AND WATERED AS REQUIRED BY CONDITIONS OR REQUESTED BY THE DEEP TO CONTROL DUST AS NOTED ABOVE.
- ONCE UTILITIES ARE INSTALLED AND THE PROPOSED SITE IS IN FINAL GRADED SHAPE, PAVING OPERATIONS SHALL TAKE PLACE. UPON PLACEMENT OF THE FIRST LAYER OF PAVEMENT AND CURBING, TOPSOIL AND SEEDING SHOULD COMMENCE ALONG WITH THE INSTALLATION OF NEW CHECK HAY BALE BARRIERS AS REQUIRED. IF THE ROAD IS NOT TO BE PAVED IMMEDIATELY, CONSTRUCTION TRAFFIC SHOULD BE RUN ON APPROVED SUBBASE, WITH RUNOFF, EROSION & DUST CONTROLLED AS NECESSARY.

RESponsible Persons:

- DURING CONSTRUCTION - TO BE DESIGNATED BY THE CONTRACTOR.
- LONG TERM MAINTENANCE - TO BE DESIGNATED BY THE STATE AND UNIVERSITY.

E. EARTH SLOPES

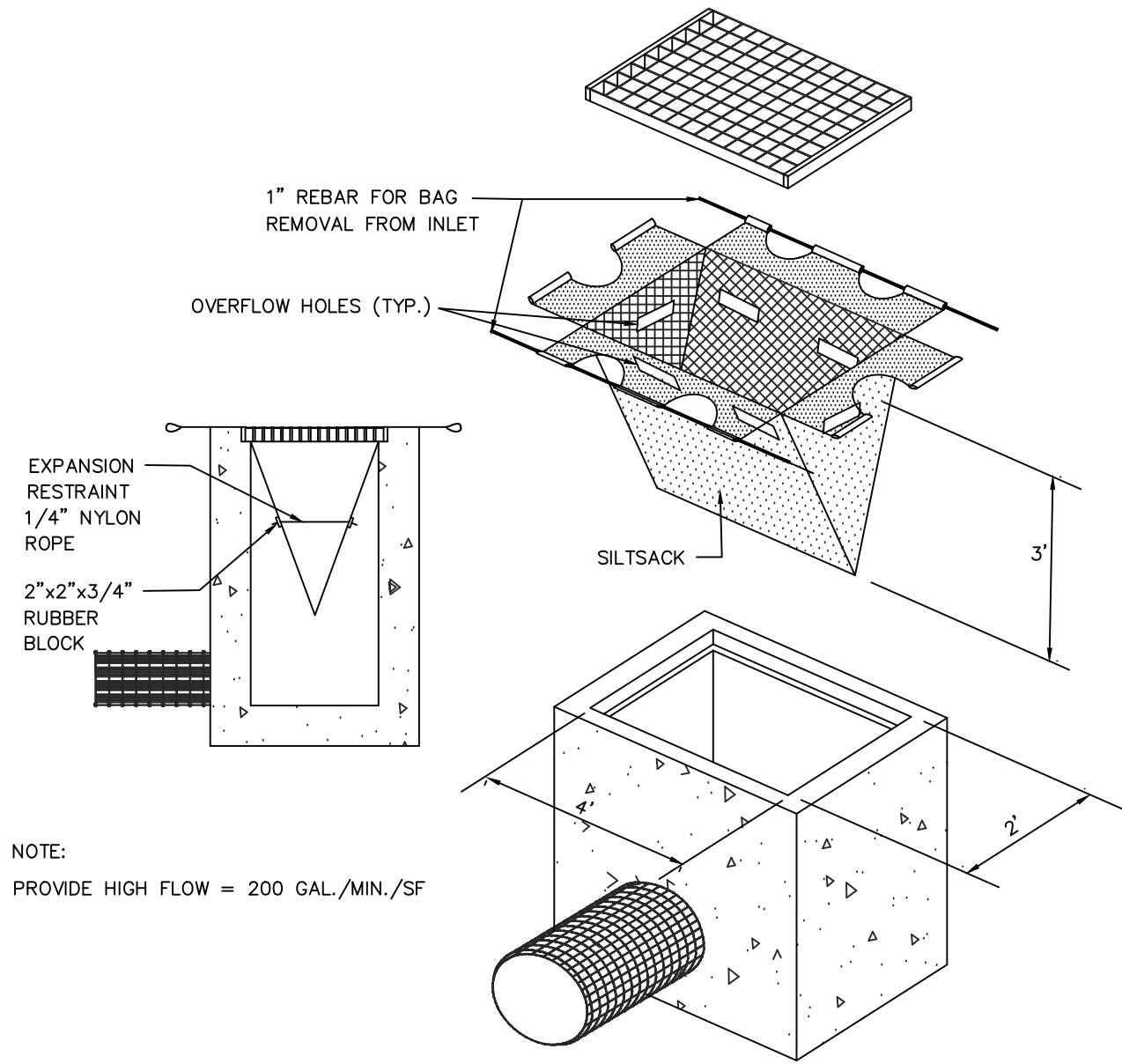
- ALL EARTH SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL SHALL BE COVERED WITH EROSION CONTROL BLANKET UNTIL VEGETATION IS ESTABLISHED.
- ALL EARTH SLOPES (REGARDLESS OF GRADE) WHERE THE TOE OF SLOPE IS WITHIN 25' OF A WETLAND SHALL BE COVERED WITH EROSION CONTROL BLANKET UNTIL VEGETATION IS ESTABLISHED.

F. SEEDING

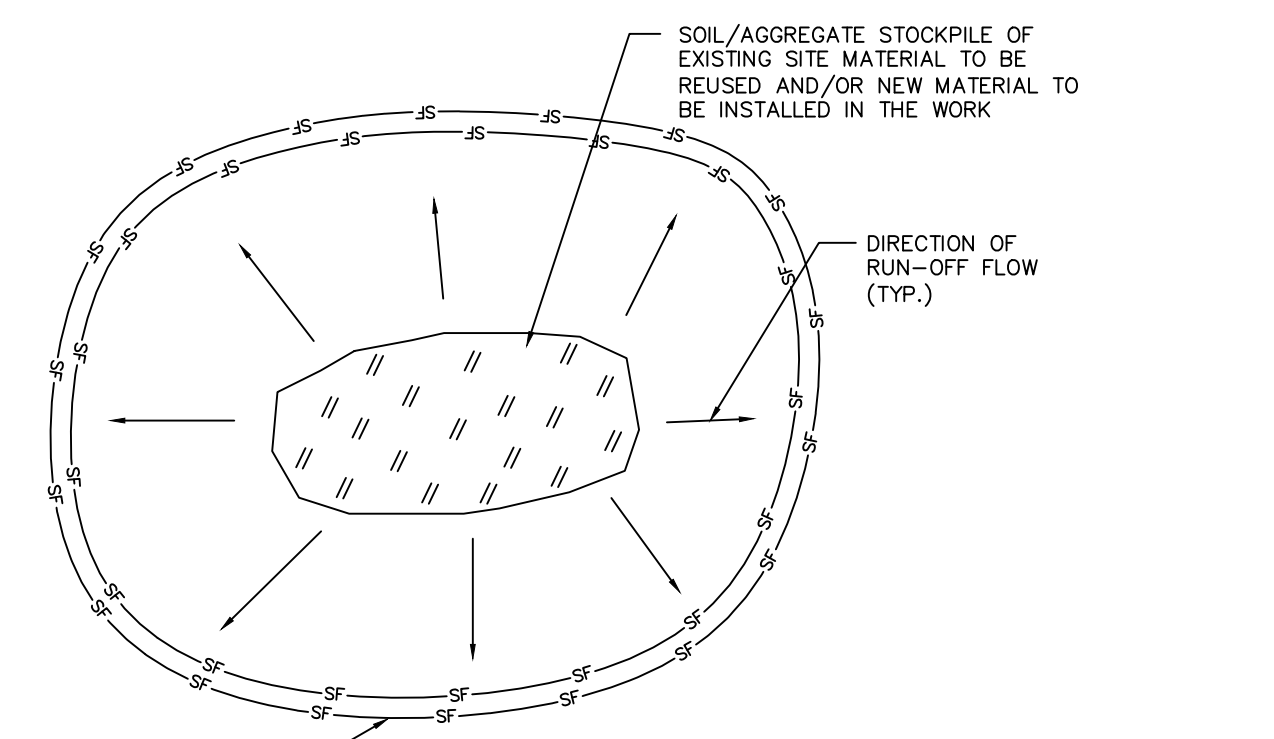
- TEMPORARY VEGETATIVE COVER: SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CONNECTICUT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS BRIDGES & INCIDENTAL CONSTRUCTION (FORM 817) AND THE SPECIFICATIONS.
- PERMANENT VEGETATIVE COVER: DISTURBED AREAS SHALL BE FINE GRADED AND COVERED WITH A MINIMUM OF 6 INCHES OF TOPSOIL. FERTILIZER SHALL BE APPLIED AT THE RATE OF 2-45 LBS. (NITROGEN) PER ACRE USING 1-2-1 OR EQUIVALENT. APPLY LESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT THE RATE OF 3 TONS/ACRE (OR IN ACCORDANCE WITH SPECIFIC SOIL TESTS). WORK FERTILIZER AND LESTONE THOROUGHLY INTO THE TOPSOIL. REFER TO SPECIFICATIONS FOR FURTHER DETAILED FERTILIZER REQUIREMENTS.
- SEED MIXTURE: SEED MIXTURE SHALL BE AS DEFINED IN THE SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE SEED SUPPLIERS NAME, LOCATION AND SEED MIX TO THE DESIGN ENGINEER AND THE UNIVERSITY PRIOR TO APPLICATION OF SEED.
- SEEDING DATES: ALL PERMANENT SEEDING SHALL BE DONE DURING THE SEEDING PERIODS OF APRIL 15 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 15. WATER, MOW AND REPAIR VEGETATIVE COVER TO MAINTAIN IT IN A HEALTHY GROWING CONDITION. TEMPORARY SEEDING SHALL BE PERFORMED AS NECESSARY TO STABILIZE SLOPES DURING ALL PERIODS OF CONSTRUCTION. THE CONTRACTOR SHALL WATER AS NECESSARY TO ESTABLISH AND MAINTAIN HEALTHY GROWING CONDITIONS.

RECORDS

- EROSION AND SEDIMENTATION CONTROL RECORDS SHALL BE KEPT BY THE CONTRACTOR. INSTALLATION, INSPECTION, APPROVAL AND MAINTENANCE OF INSTALLATION RECORDS SHALL INDICATE THE FOLLOWING:
- LOCATION OF THE EROSION AND SEDIMENTATION CONTROL MEASURE.
 - INSTALLED BY (PRINT NAME AND SIGNATURE) AND DATE OF INSTALLATION.
 - APPROVAL BY DEEP OF THE INSTALLED MEASURE (PRINT NAME AND SIGNATURE) AND DATE OF APPROVAL.
 - SUBSEQUENT INSPECTIONS, DATE OF INSPECTION & REASON FOR INSPECTION.
 - RESULTS OF SUBSEQUENT INSPECTION, ACTION TO BE TAKEN BY THE CONTRACTOR SPECIFIC REQUIREMENTS OF THIS PLAN.

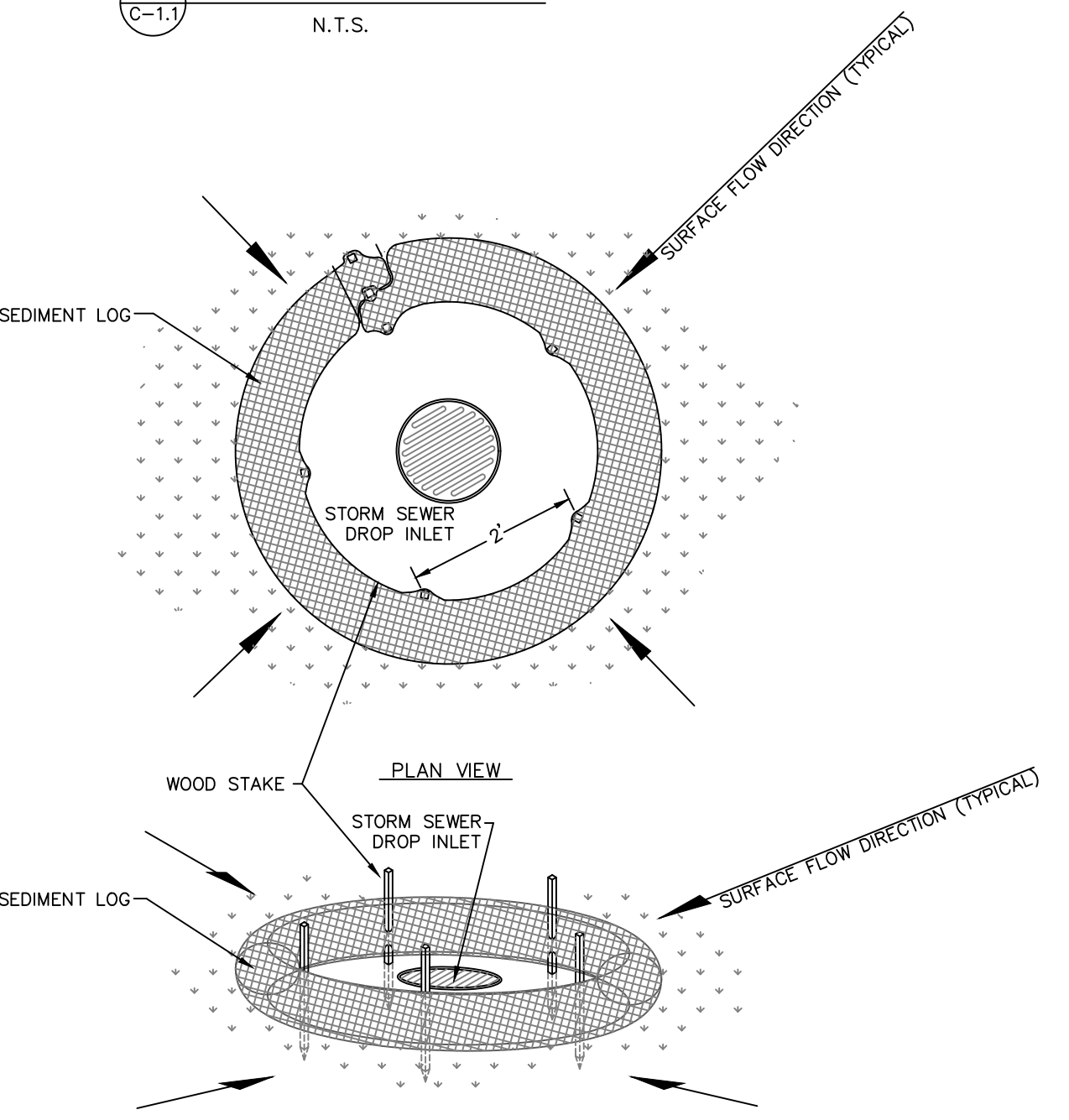


1 TYPICAL SILT SACK DETAIL N.T.S.



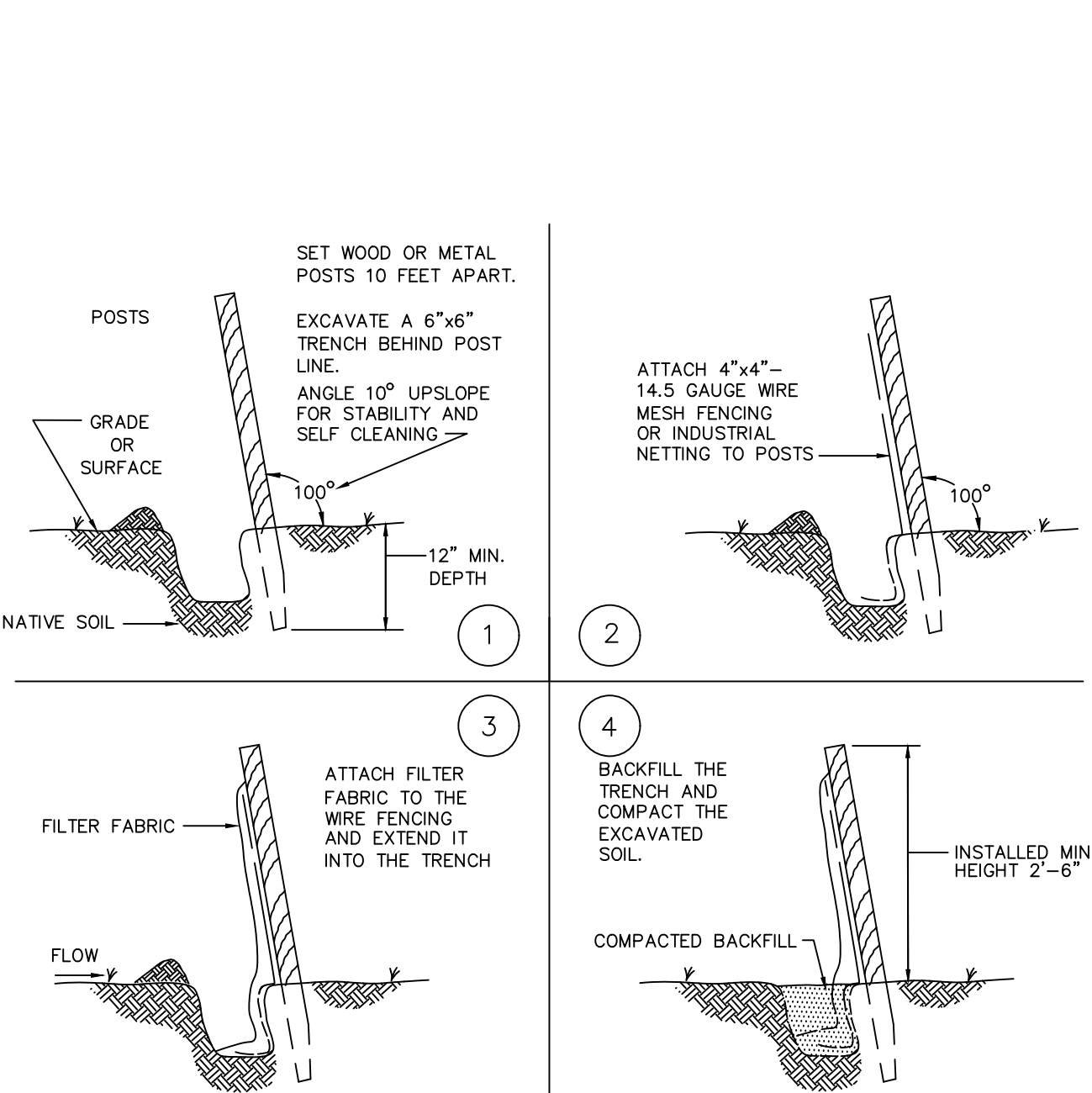
- NOTES:
- ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
 - SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS OR LOCATED IN THE FIELD WITH THE APPROVAL OF THE ENGINEER.
 - RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
 - STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
 - STOCKPILES OF EARTH MATERIALS TO BE IN PLACE GREATER THAN 30 DAYS SHALL BE COVERED, SEEDED WITH TEMPORARY SEED MIX OR MULCHED.

3 STOCKPILE DETAIL N.T.S.

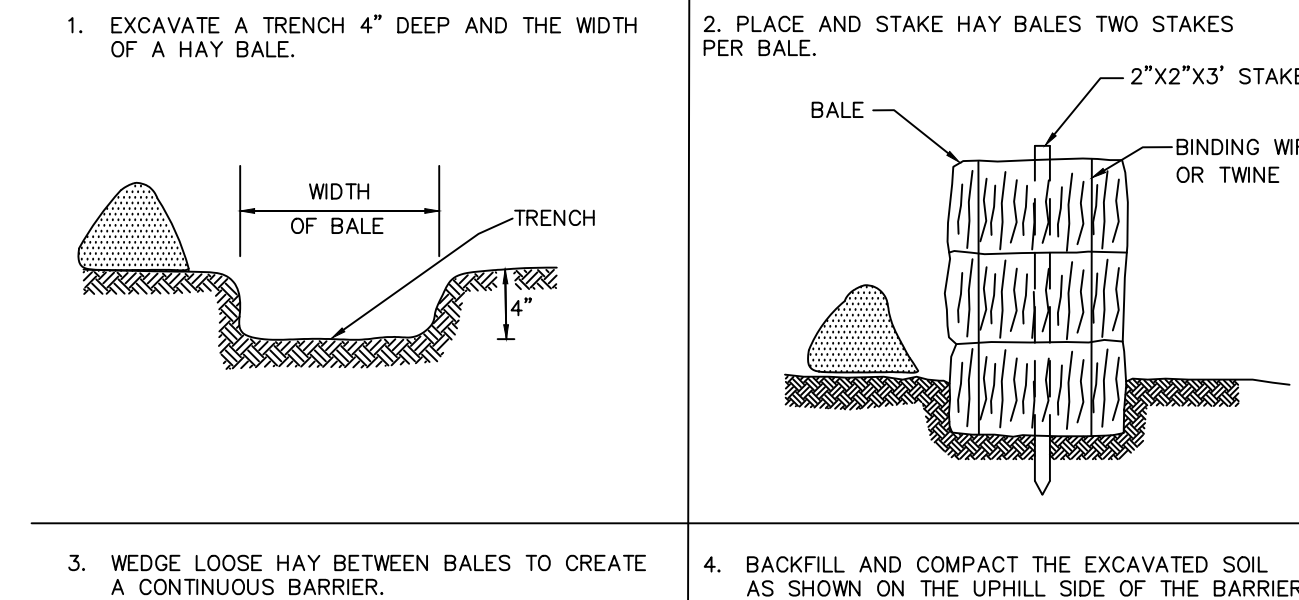


5 ANTI-TRACKING PAD N.T.S.

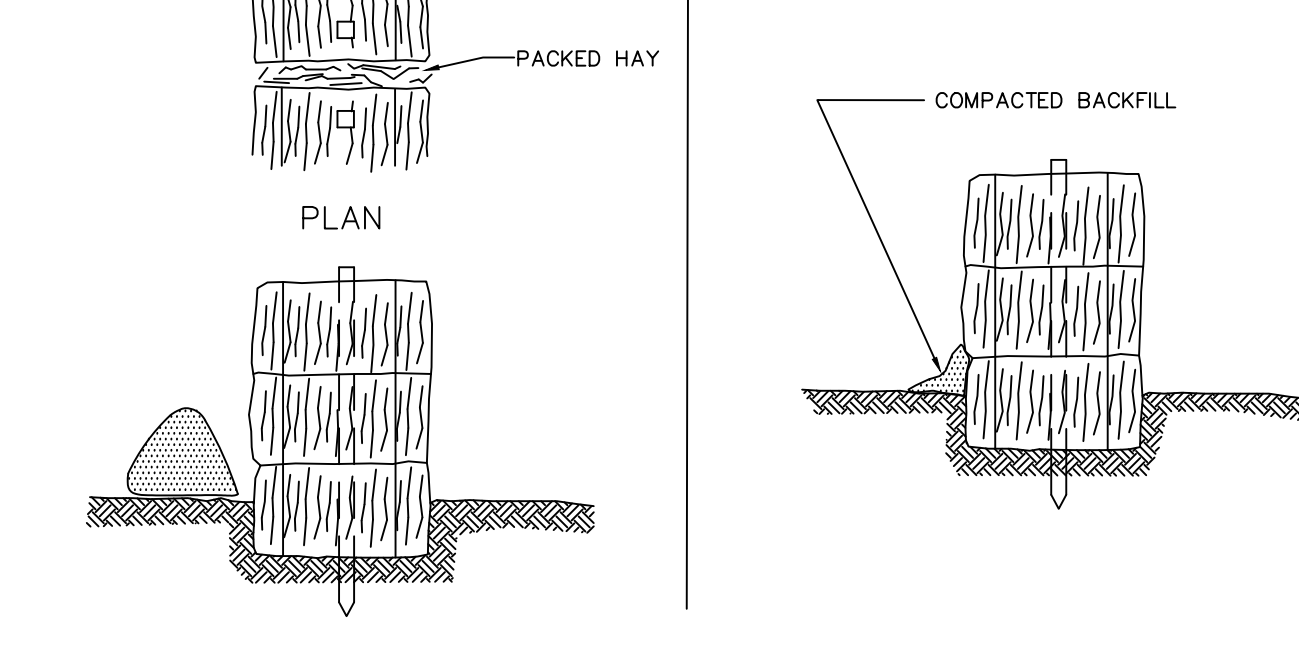
6 CURLEX SEDIMENT LOG DROP INLET PROTECTION N.T.S.



2 FILTER FABRIC SILT FENCE PLACEMENT AND CONSTRUCTION N.T.S.



4 HAY BALE BARRIER PLACEMENT AND CONSTRUCTION N.T.S.



WCSU
Planning and Engineering
181 White Street
Danbury, CT 06810
www.wcsu.edu

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No.	Date

OIL TANK REMOVAL AT PLAZA
 Between VPAC & West Side Campus Center

Macchi Engineers
44 Quinn Street
Hartford, CT 06105
(860) 649-6190
www.macchiengineers.com

SOIL EROSION CONTROL DETAILS

100% CD SUBMISSION

Project No. CF-RD 309

By: JWK

Scale: AS NOTED

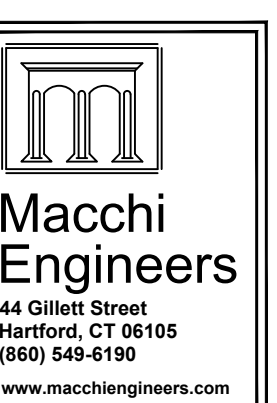
Issue Date: 9/6/2019

C-1.1

Revisions

No.	Date

**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**SITE UTILITY
PREPARATION
AND DEMO
PLAN**

**100% CD
SUBMISSION**

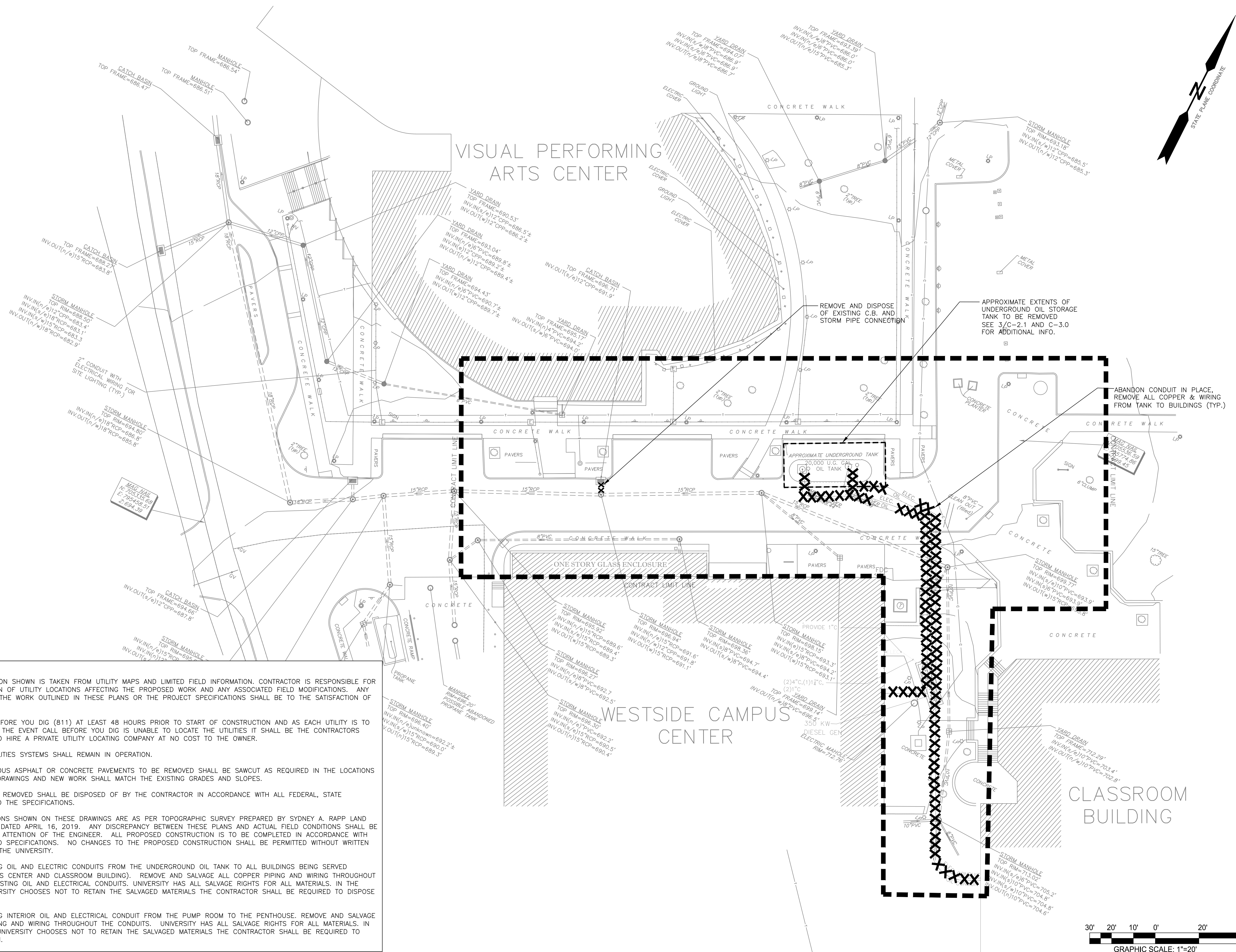
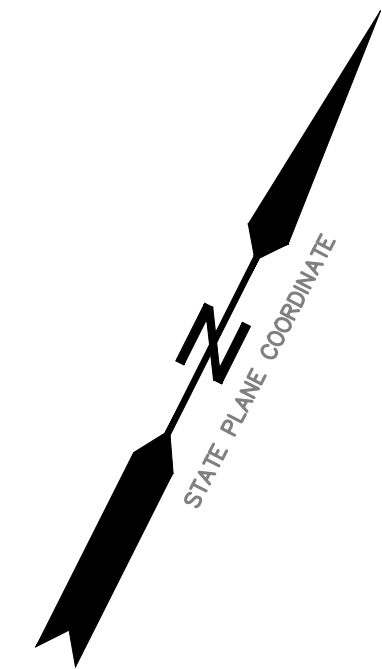
Project No. CF-RD 309

By: JWK

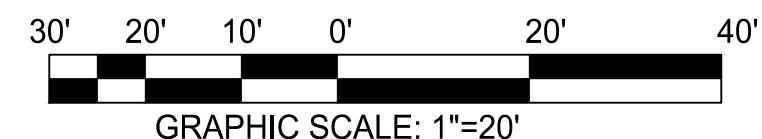
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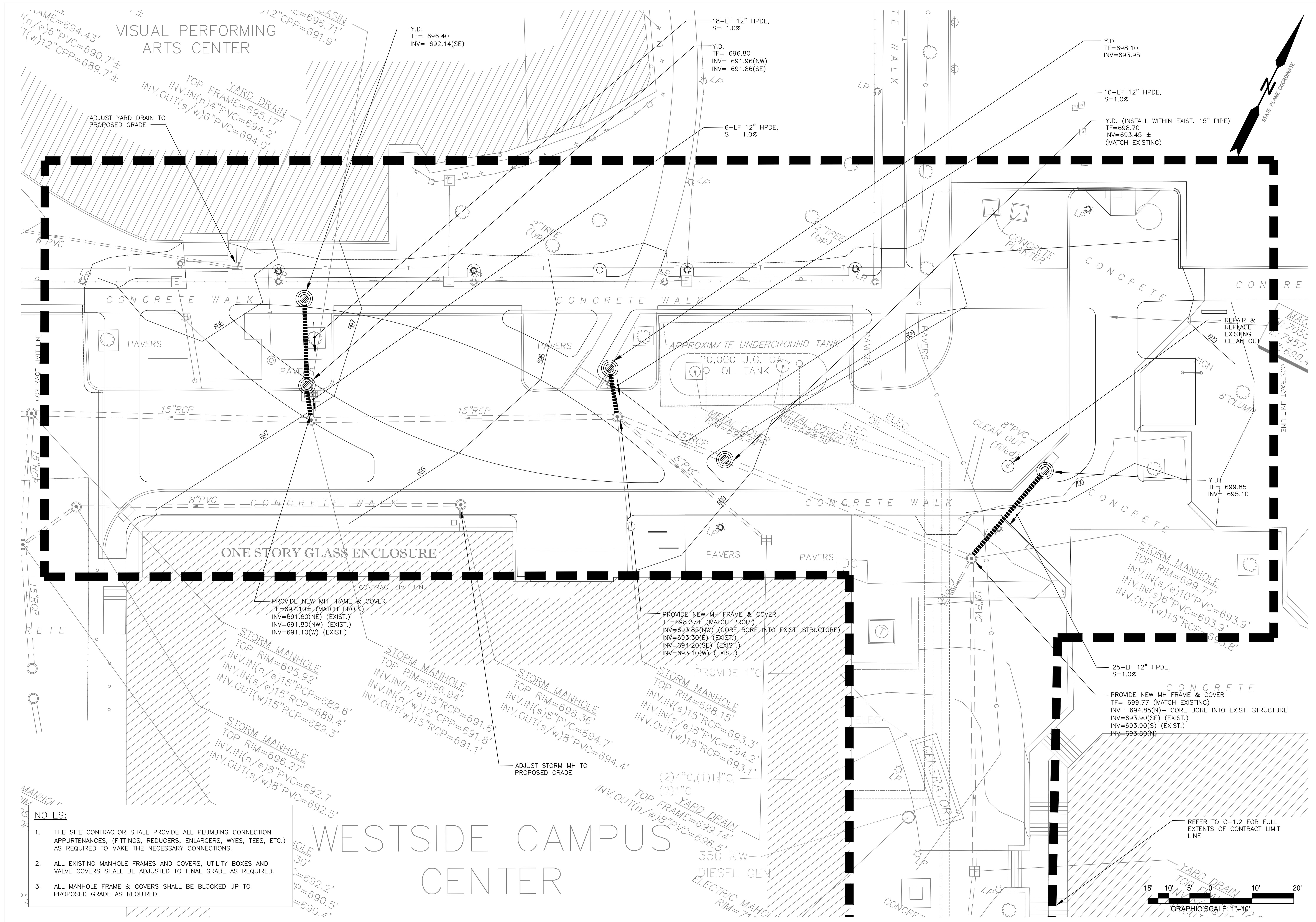
Issue Date: 9/6/2019

C-1.2



- NOTES:**
- UTILITY INFORMATION SHOWN IS TAKEN FROM UTILITY MAPS AND LIMITED FIELD INFORMATION. CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF UTILITY LOCATIONS AFFECTING THE PROPOSED WORK AND ANY ASSOCIATED FIELD MODIFICATIONS. ANY MODIFICATION TO THE WORK OUTLINED IN THESE PLANS OR THE PROJECT SPECIFICATIONS SHALL BE TO THE SATISFACTION OF THE ENGINEER.
 - CONTACT CALL BEFORE YOU DIG (811) AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION AND AS EACH UTILITY IS TO BE INSTALLED. IN THE EVENT CALL BEFORE YOU DIG IS UNABLE TO LOCATE THE UTILITIES IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO HIRE A PRIVATE UTILITY LOCATING COMPANY AT NO COST TO THE OWNER.
 - ALL EXISTING UTILITIES SYSTEMS SHALL REMAIN IN OPERATION.
 - EXISTING BITUMINOUS ASPHALT OR CONCRETE PAVEMENTS TO BE REMOVED SHALL BE SAWCUT AS REQUIRED IN THE LOCATIONS SHOWN ON THE DRAWINGS AND NEW WORK SHALL MATCH THE EXISTING GRADES AND SLOPES.
 - ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL FEDERAL, STATE REGULATIONS, AND THE SPECIFICATIONS.
 - EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE AS PER TOPOGRAPHIC SURVEY PREPARED BY SYDNEY A. RAPP LAND SURVEYING, P.C., DATED APRIL 16, 2019. ANY DISCREPANCY BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ALL PROPOSED CONSTRUCTION IS TO BE COMPLETED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. NO CHANGES TO THE PROPOSED CONSTRUCTION SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE UNIVERSITY.
 - ABANDON EXISTING OIL AND ELECTRIC CONDUITS FROM THE UNDERGROUND OIL TANK TO ALL BUILDINGS BEING SERVED (WESTSIDE CAMPUS CENTER AND CLASSROOM BUILDING). REMOVE AND SALVAGE ALL COPPER PIPING AND WIRING THROUGHOUT ALL EXTERIOR EXISTING OIL AND ELECTRICAL CONDUITS. UNIVERSITY HAS ALL SALVAGE RIGHTS FOR ALL MATERIALS. IN THE EVENT THE UNIVERSITY CHOOSES NOT TO RETAIN THE SALVAGED MATERIALS THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF THEM.
 - ABANDON EXISTING INTERIOR OIL AND ELECTRICAL CONDUIT FROM THE PUMP ROOM TO THE PENTHOUSE. REMOVE AND SALVAGE ALL COPPER PIPING AND WIRING THROUGHOUT THE CONDUITS. UNIVERSITY HAS ALL SALVAGE RIGHTS FOR ALL MATERIALS. IN THE EVENT THE UNIVERSITY CHOOSES NOT TO RETAIN THE SALVAGED MATERIALS THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF THEM.





- NOTES:**
1. THE SITE CONTRACTOR SHALL PROVIDE ALL PLUMBING CONNECTION APPURTENANCES, (FITTINGS, REDUCERS, ENLARGERS, WYES, TEES, ETC.) AS REQUIRED TO MAKE THE NECESSARY CONNECTIONS.
 2. ALL EXISTING MANHOLE FRAMES AND COVERS, UTILITY BOXES AND VALVE COVERS SHALL BE ADJUSTED TO FINAL GRADE AS REQUIRED.
 3. ALL MANHOLE FRAME & COVERS SHALL BE BLOCKED UP TO PROPOSED GRADE AS REQUIRED.

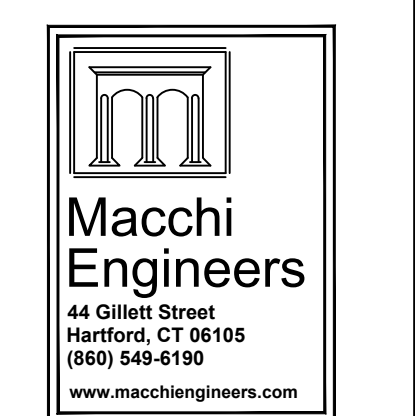
1 SITE UTILITY PLAN
1" = 10'-0"



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**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**SITE UTILITY
PLAN**

**100% CD
SUBMISSION**

Project No. CF-RD 309

By: JWK

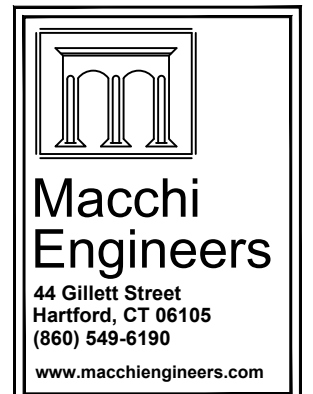
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C-2.0

Revisions	
No.	Date

**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**OIL
TANK/PIPING
REMOVAL
PLAN**

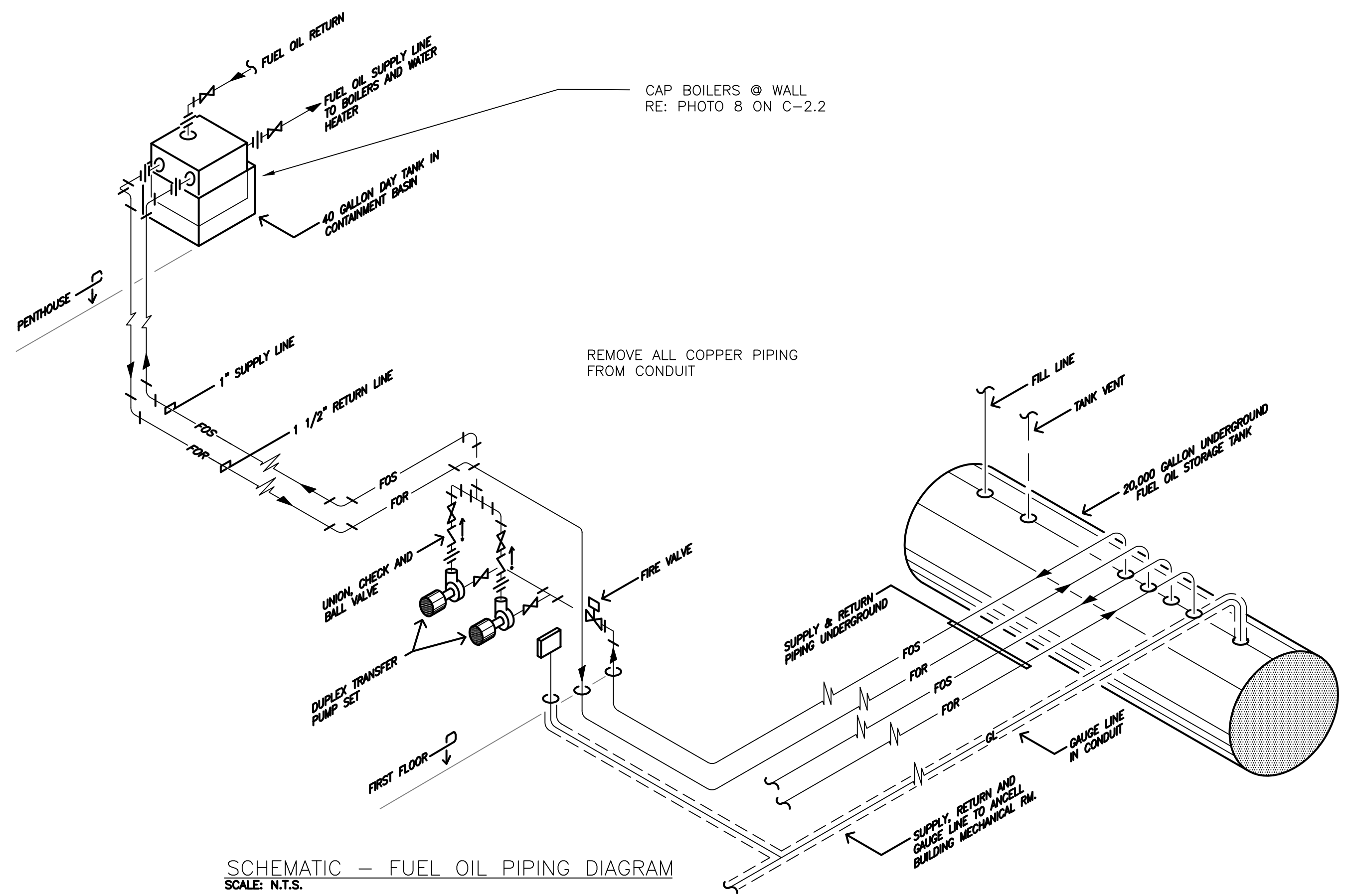
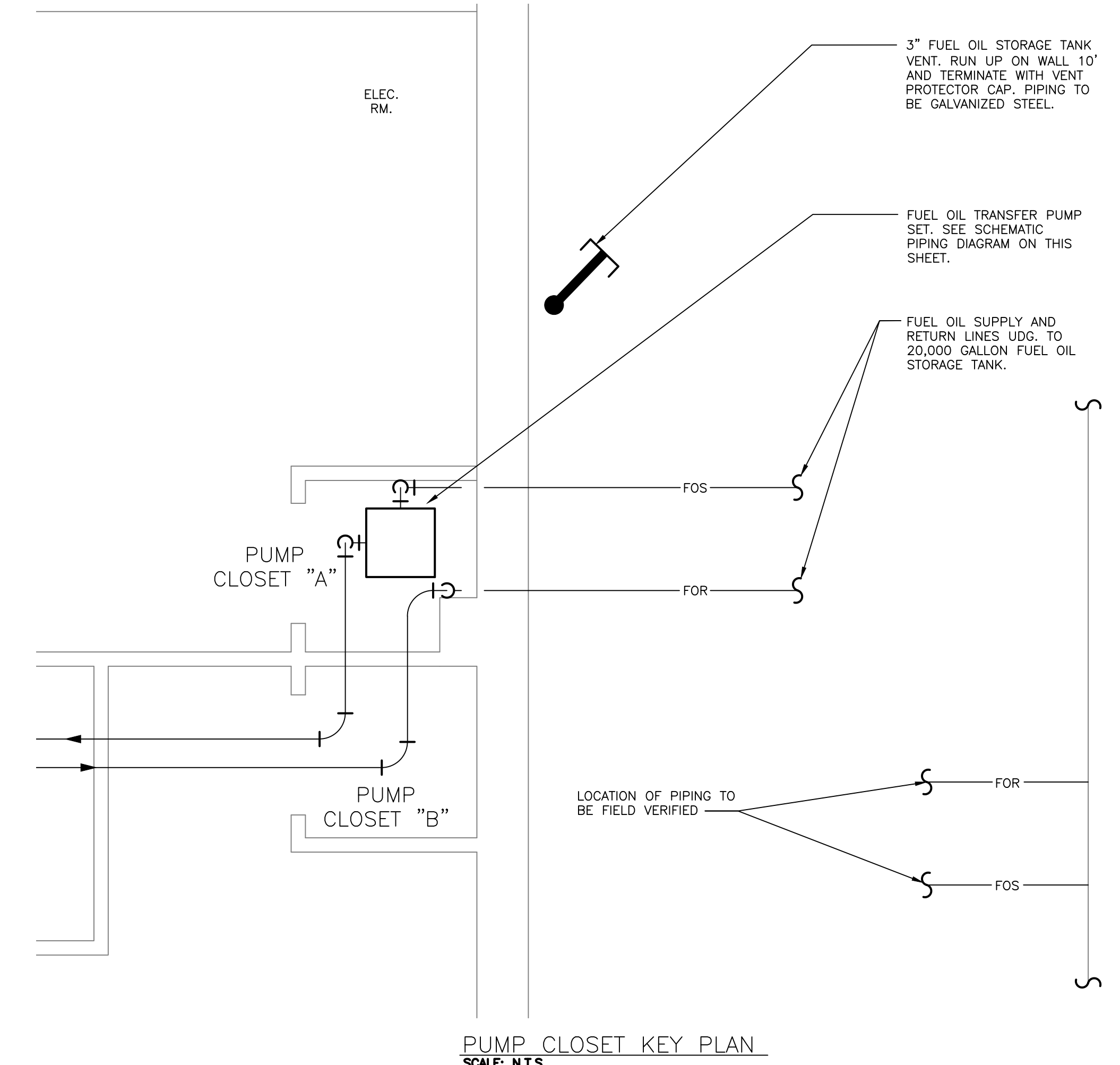
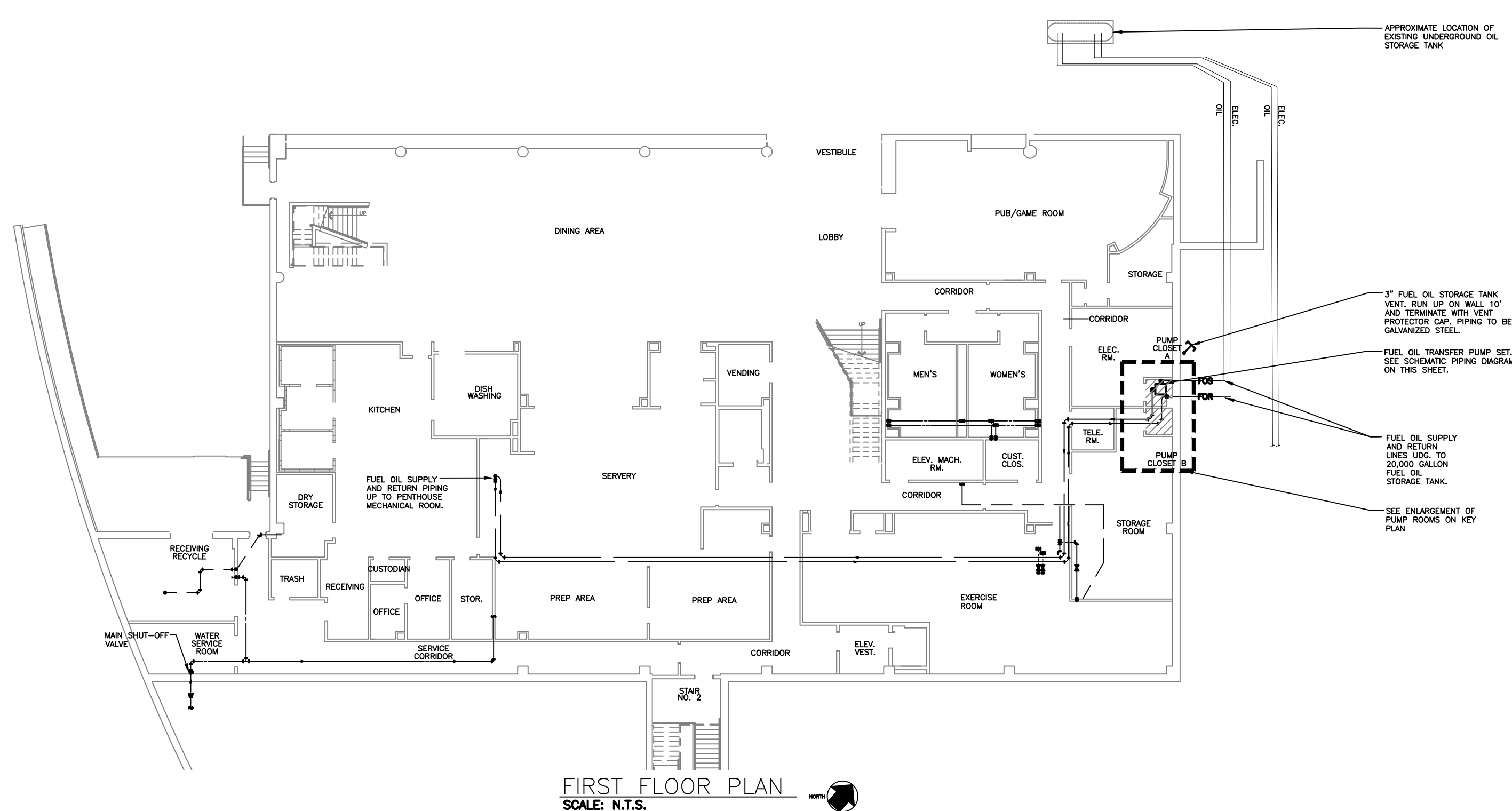
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Project No. CF-RD 309

By: JWK

Scale: AS NOTED

Issue Date: 9/6/2019



- OIL TANK REMOVAL NOTES:**
- FLOOR PLAN TAKEN FROM WCSU WESTSIDE CAMPUS CENTER AS BUILT DRAWING BY GENERAL DRAFTING & DESIGN, INC. CONSULTING ENGINEERS
 - THE CONTRACTOR MUST CONFIRM THAT THE STORAGE TANK IS EMPTY BEFORE REMOVAL. PRIOR TO REMOVAL ALL USABLE REMAINING OIL WILL BE REMOVED BY THE UNIVERSITY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE AND DISPOSE OF ANY RESIDUAL FUEL IN THE TANK AND SUPPLY/RETURN LINES.
 - THERE ARE TWO EXISTING PUMP ROOMS; A AND B (SEE KEY PLAN). PUMP ROOM "A" SUPPLIES THE CAMPUS CENTER, AND PUMP ROOM "B" SUPPLIES THE ANCELL CLASSROOMS. ALL LINE SETS TO BOTH BUILDINGS FROM THE SHARED OIL TANK SHALL BE REMOVED. THE LINE SETS ARE BURIED IN A SECONDARY, CORRUGATED CONTINUOUS SLEEVE. WHERE FEASIBLE THE SECONDARY OUTER PIPE SHALL BE LEFT IN PLACE.
 - THE BOILERS ARE LOCATED IN THE PENTHOUSE ON THE ROOF OF THE CAMPUS CENTER. THE SUPPLY AND RETURN LINES TO THE BOILER SHALL BE SUCTIONED OUT AND CAPPED IN THE PERSPECTIVE PUMP ROOM.
 - ALL PUMPS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED FROM BOTH PUMP ROOMS. FILL ALL PENETRATION OPENINGS WITH CONCRETE. REPAIR INTERIOR WALL AS REQUIRED.
 - THE UNIVERSITY HAS ALL SALVAGE RIGHTS. INCLUDING BUT NOT LIMITED TO ALL COPPER AND WIRING.
 - ALL ELECTRICAL CONNECTIONS SHALL BE TERMINATED BACK TO THE NEAREST JUNCTION BOX. CIRCUIT BREAKERS SHALL BE TURNED OFF AND LABELED AS REQUIRED.
 - THE BUILDING MOUNTED ON/OFF SWITCH AND STROBE SHALL BE REMOVED. THE CONTRACTOR SHALL PROVIDE A CURED SAMPLE OF GROUT TO BE APPROVED BY THE ENGINEER TO FILL THE EXISTING HOLES IN THE BUILDING AROUND A NEW SCHEDULE 80 PVC CONNECTION FOR AN EVENT POWER BOX. RE: DWG. C-4.0
 - THE TANK VENTING SHALL BE REMOVED IN ITS ENTIRETY.

APPROXIMATE LOCATION OF EXISTING UNDERGROUND OIL STORAGE TANK

3" FUEL OIL STORAGE TANK VENT. RUN UP ON WALL 10' AND TERMINATE WITH VENT PROTECTOR CAP. PIPING TO BE GALVANIZED STEEL.

FUEL OIL TRANSFER PUMP SET. SEE SCHEMATIC PIPING DIAGRAM ON THIS SHEET.

FUEL OIL SUPPLY AND RETURN LINES UDC. TO 20,000 GALLON FUEL OIL STORAGE TANK.

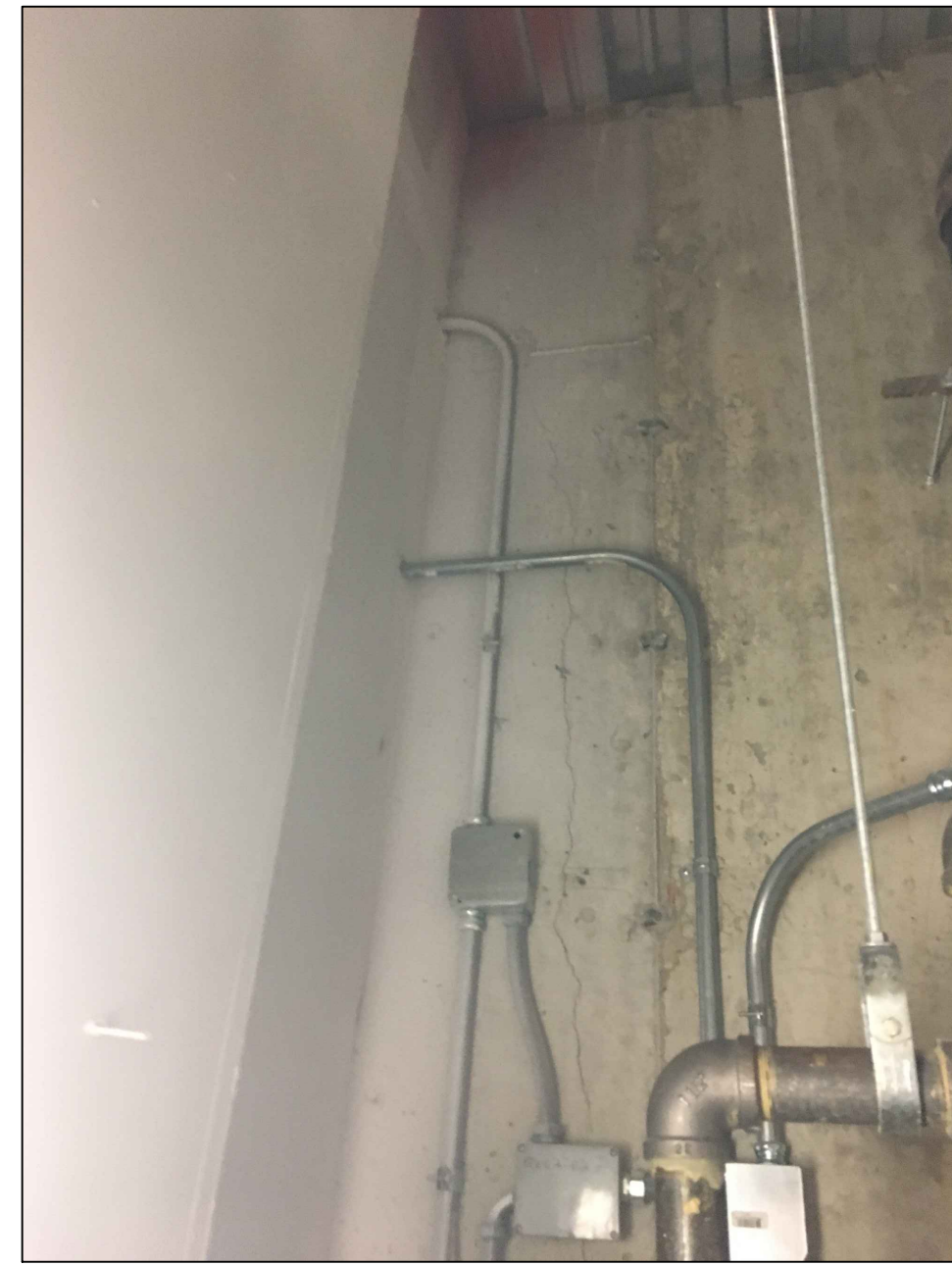
SEE ENLARGEMENT OF PUMP ROOMS ON KEY PLAN

CAP BOILERS @ WALL
RE: PHOTO 8 ON C-2.2

REMOVE ALL COPPER PIPING FROM CONDUIT



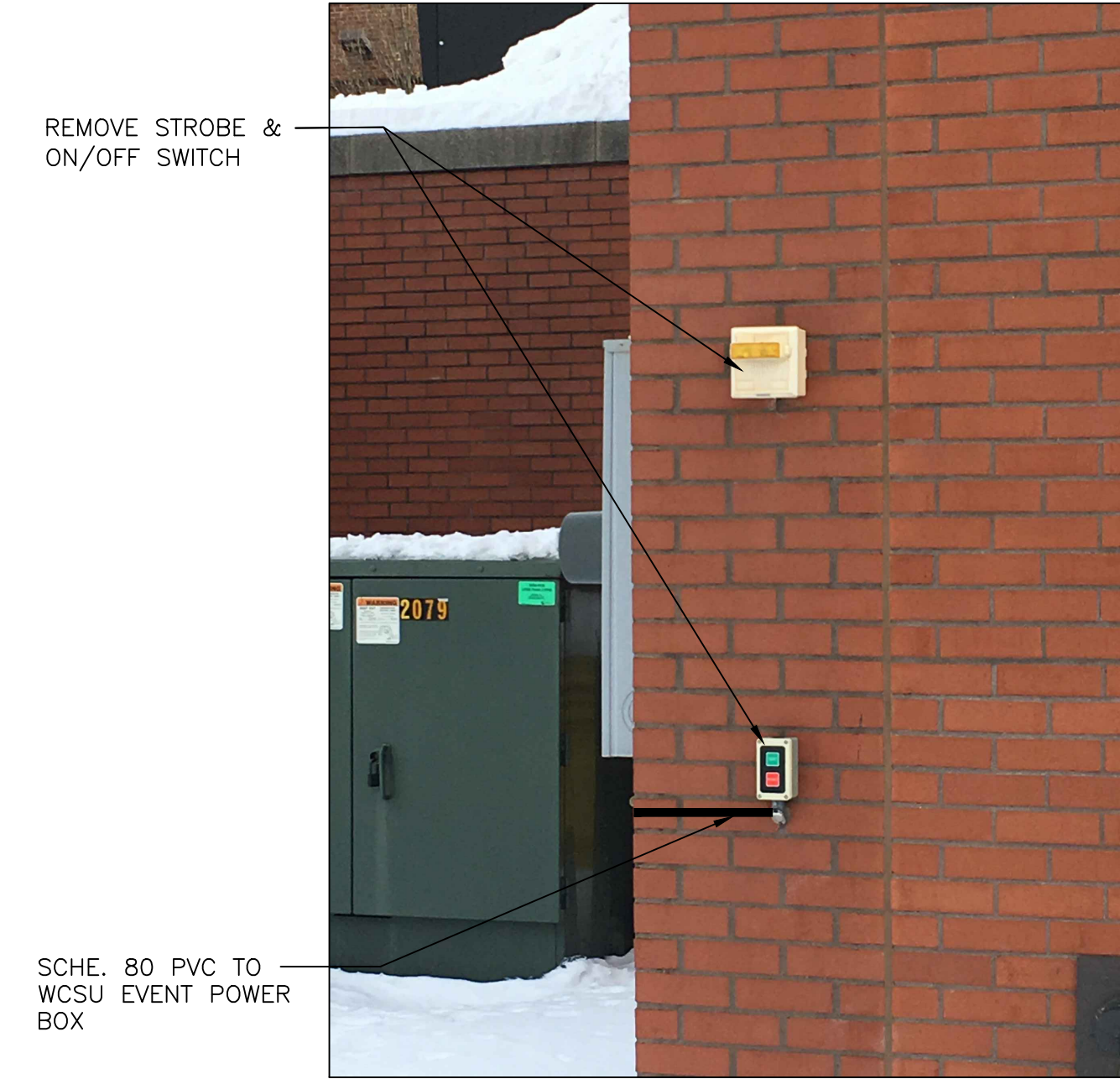
1 PUMP CLOSET "A"
ELEVATION VIEW



2 TYPICAL PUMP CLOSET ELECTRICAL CONNECTION TO BE
TERMINATED AT NEAREST JUNCTION BOX



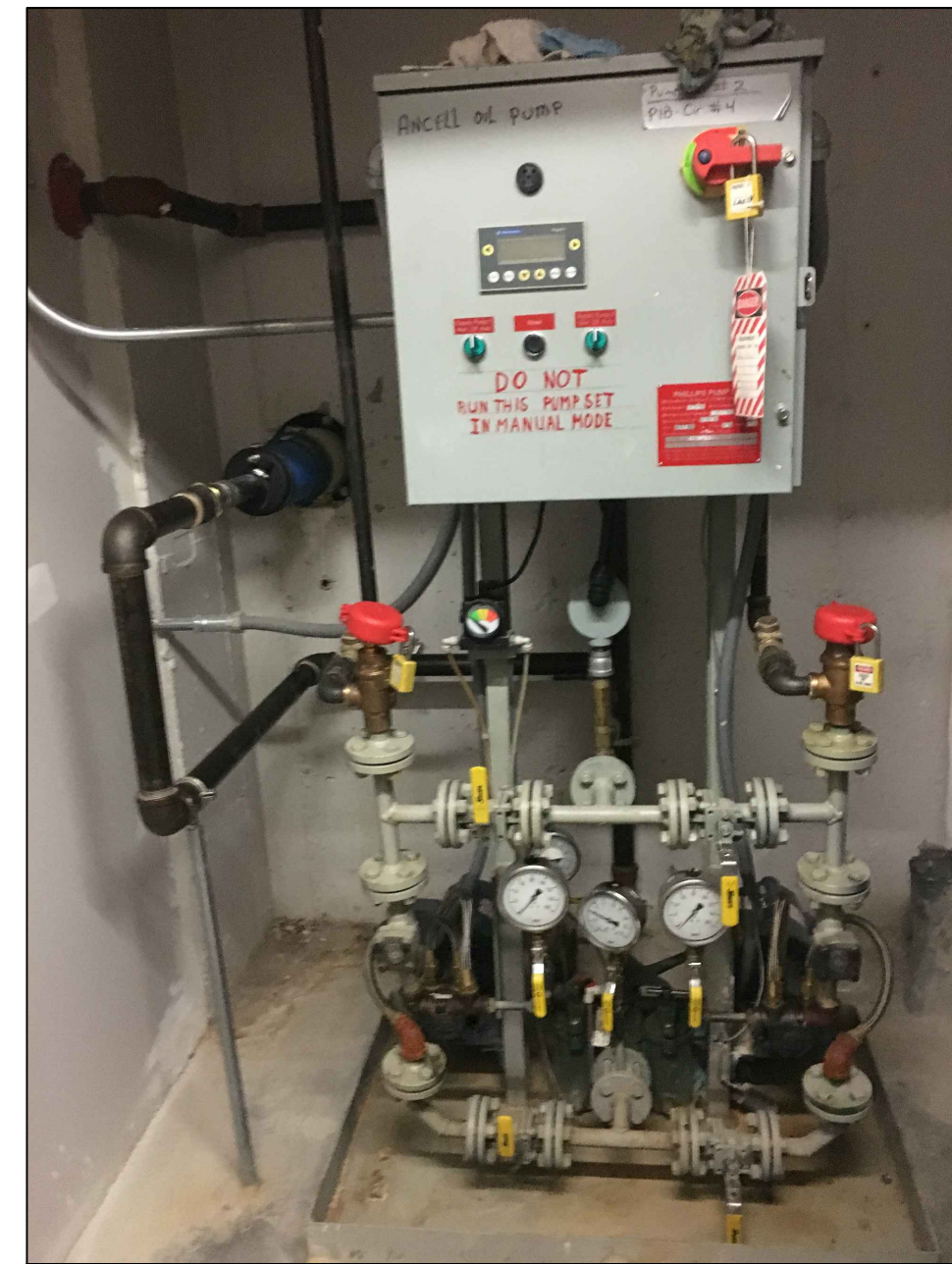
3 PUMP CLOSET "A"
FOS AND FRS LINES



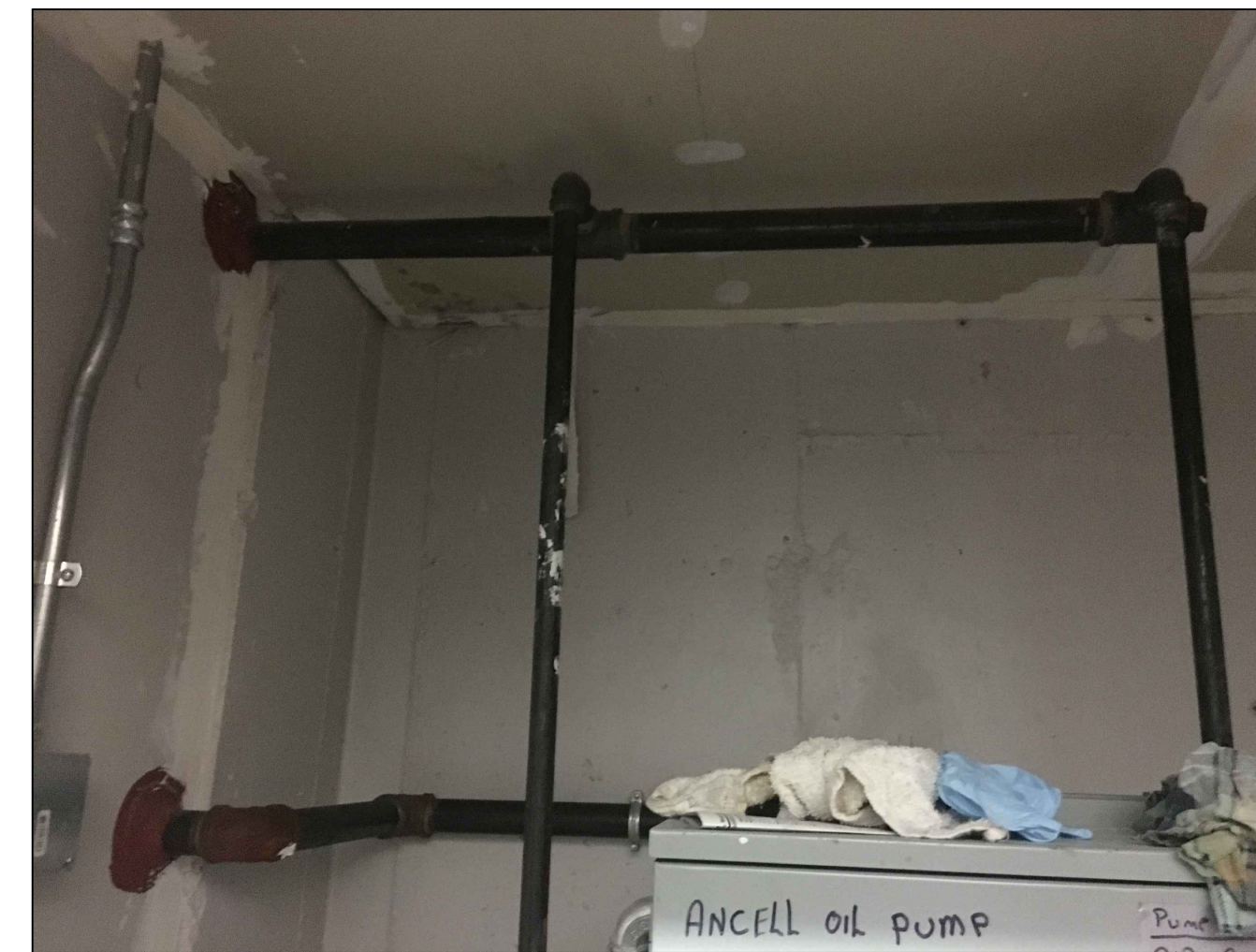
REMOVE STROBE &
ON/OFF SWITCH

SCHE. 80 PVC TO
WCSU EVENT POWER
BOX

4 BUILDING MOUNTED
SWITCH AND STROBE



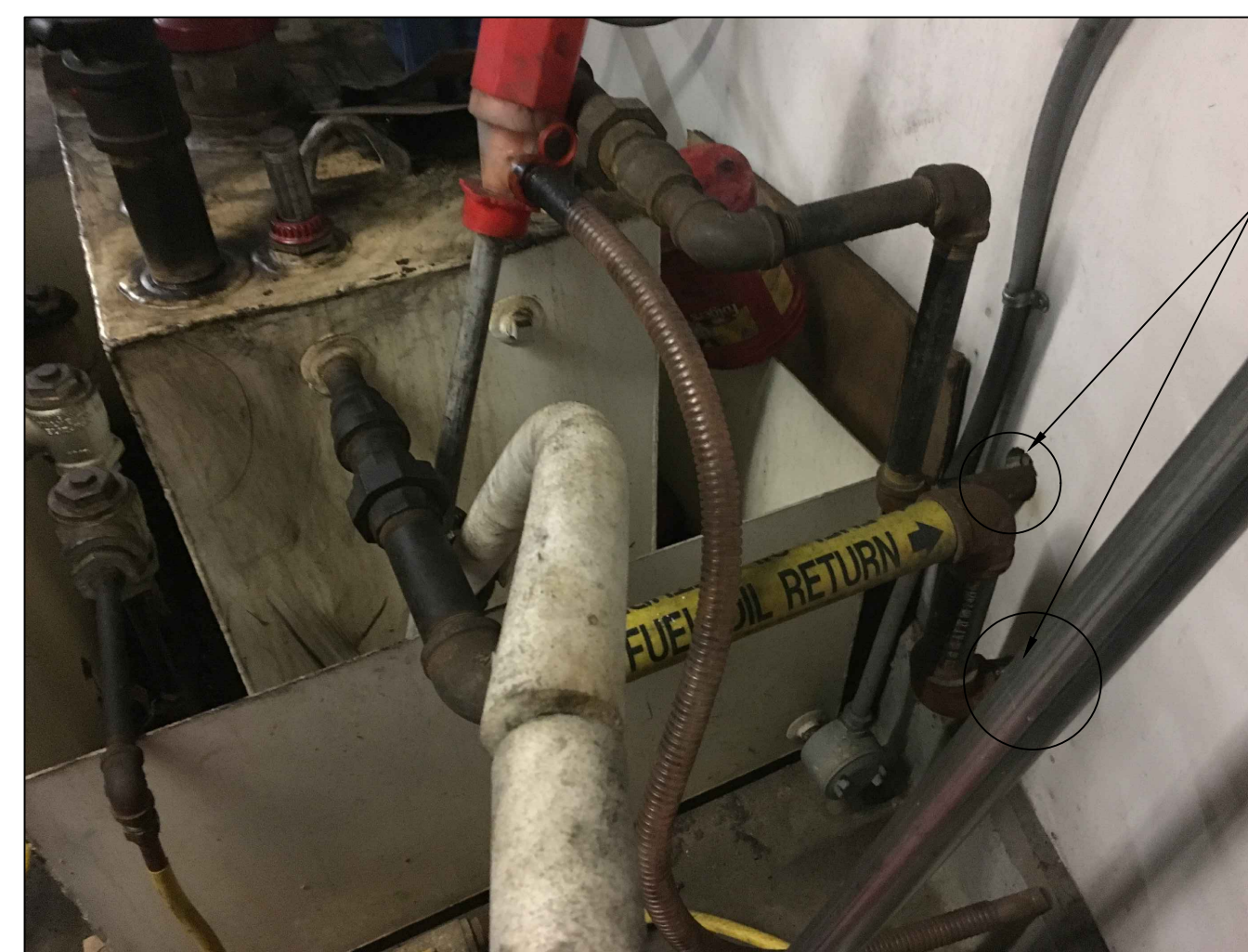
5 PUMP CLOSET "B"
ELEVATION VIEW



6 PUMP CLOSET "B"
FOS AND FRS



7 REMOVE VENT & CAP
BELOW GRADE



CAP AT WALL AT
ALL LOCATIONS
(TYP.)

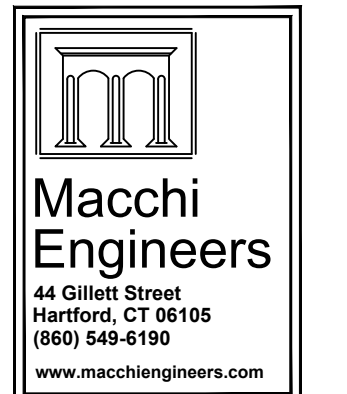
8 DAY TANK LOCATED IN
PENTHOUSE



8 PENTHOUSE: REMOVE VENT
AND PERMANENTLY CAP

Revisions	
No.	Date

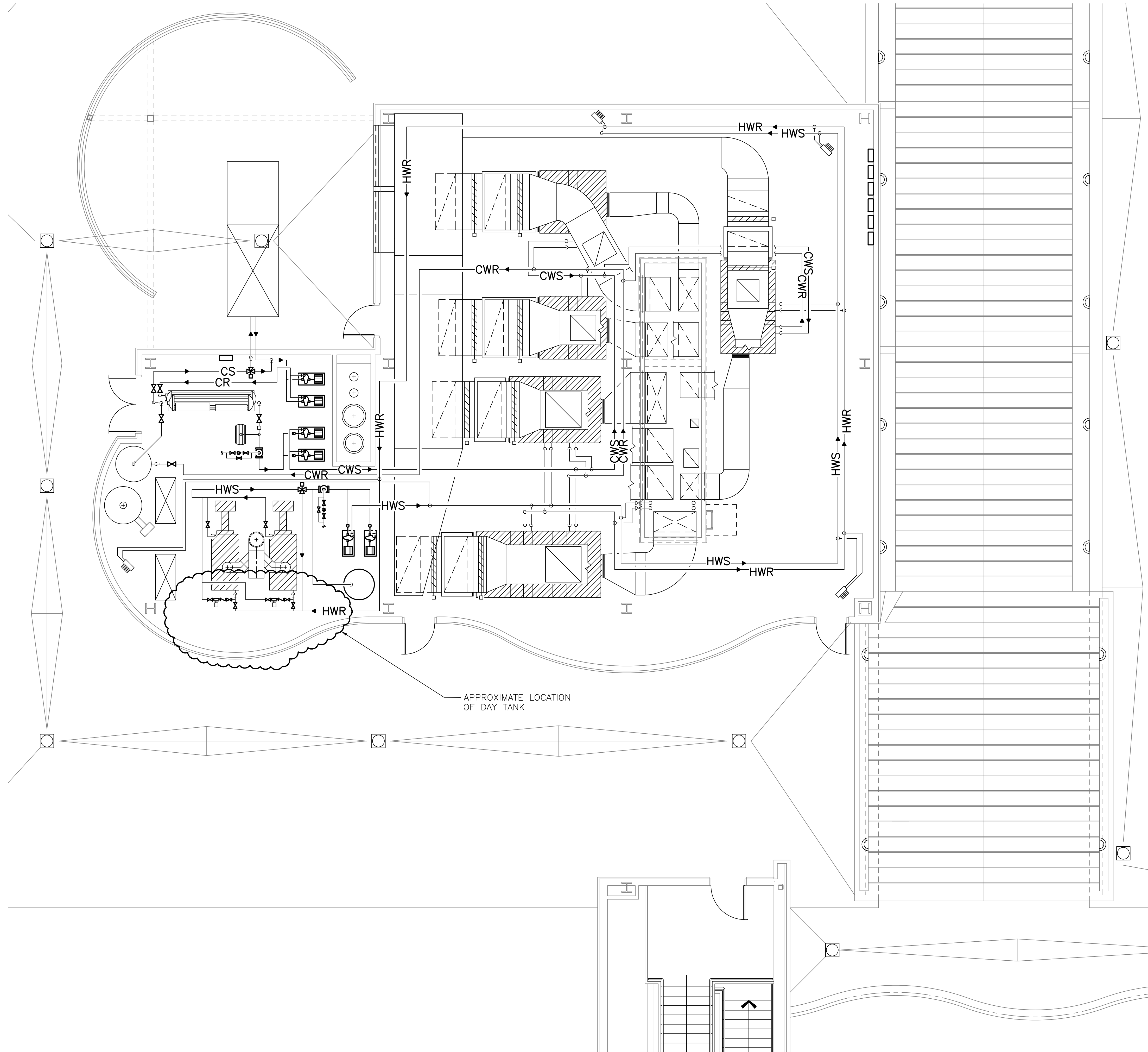
**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**OIL
TANK/PIPING
REMOVAL
PHOTOS**

**100% CD
SUBMISSION**

Project No. CF-RD 309
By: JWK
Scale: AS NOTED
Issue Date: 9/6/2019



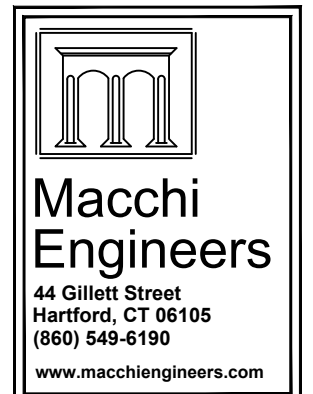
PENTHOUSE PLAN
SCALE: N.T.S.



DAY TANK AT PENTHOUSE: ALL CONNECTIONS TO BE CAPPED AT WALL

Revisions	
No.	Date

**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**PENTHOUSE
PLAN**

**100% CD
SUBMISSION**

Project No. CF-RD 309

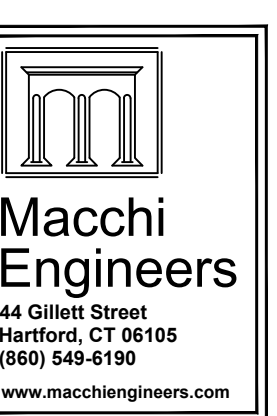
By: JWK

Scale: AS NOTED

Issue Date: 9/6/2019

Revisions	
No.	Date

**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**SITE UTILITY
DETAILS**

**100% CD
SUBMISSION**

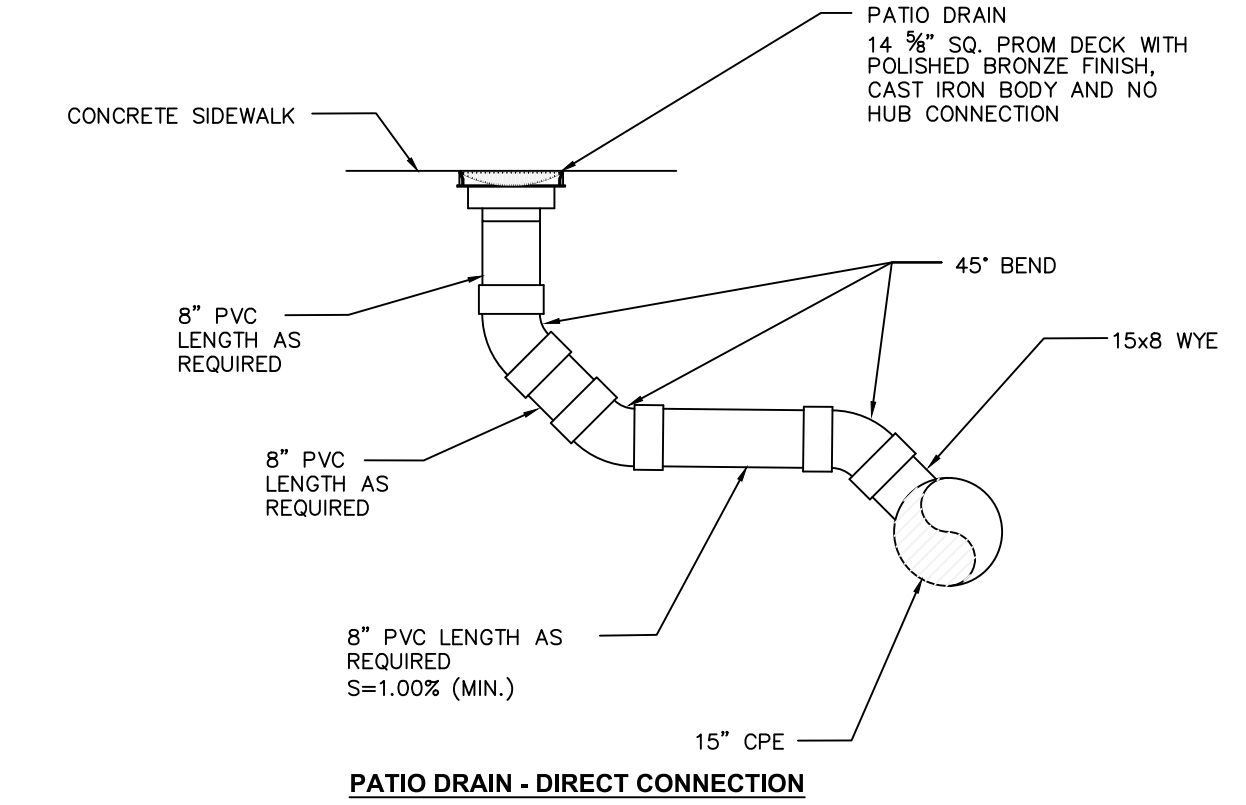
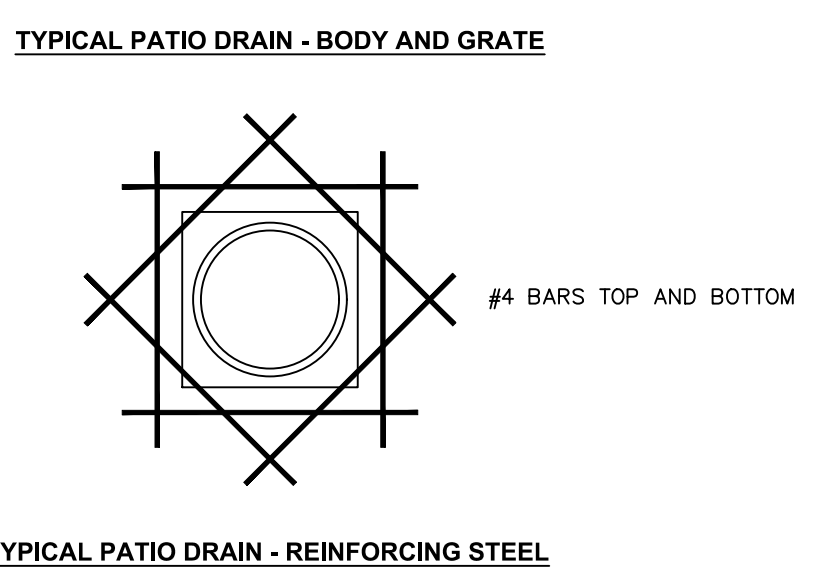
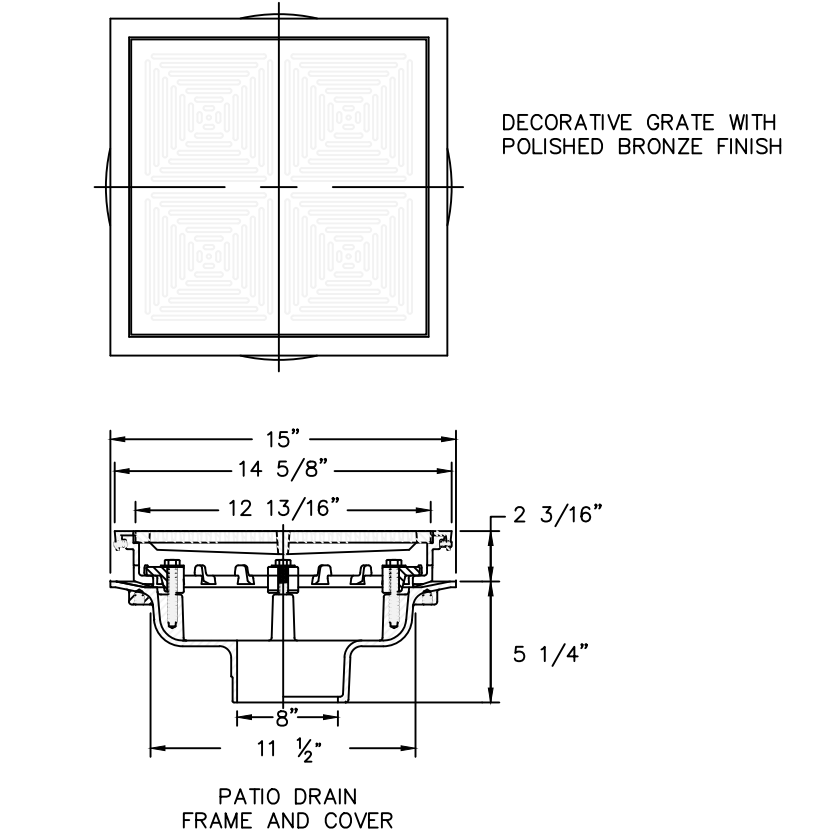
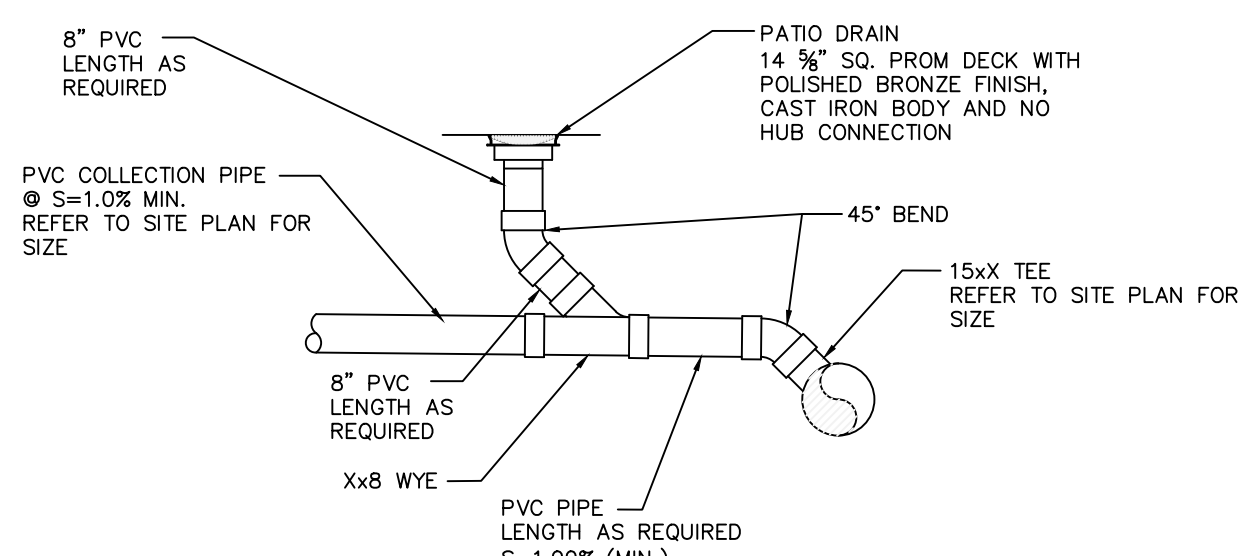
Project No. CF-RD 309

By: JWK

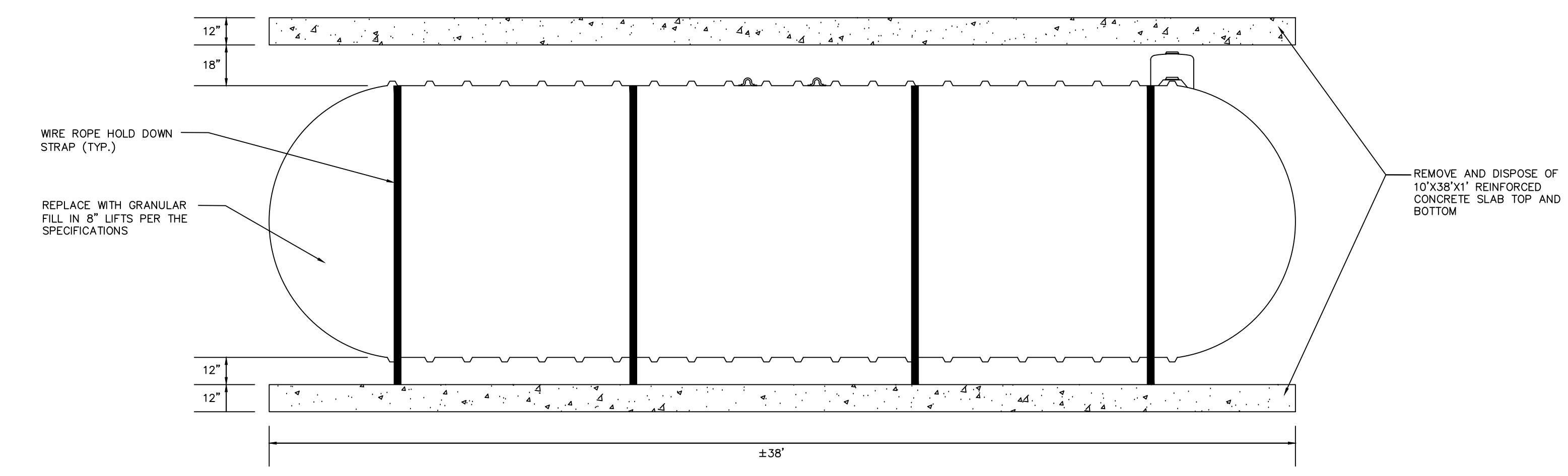
Scale: AS NOTED

Issue Date: 9/6/2019

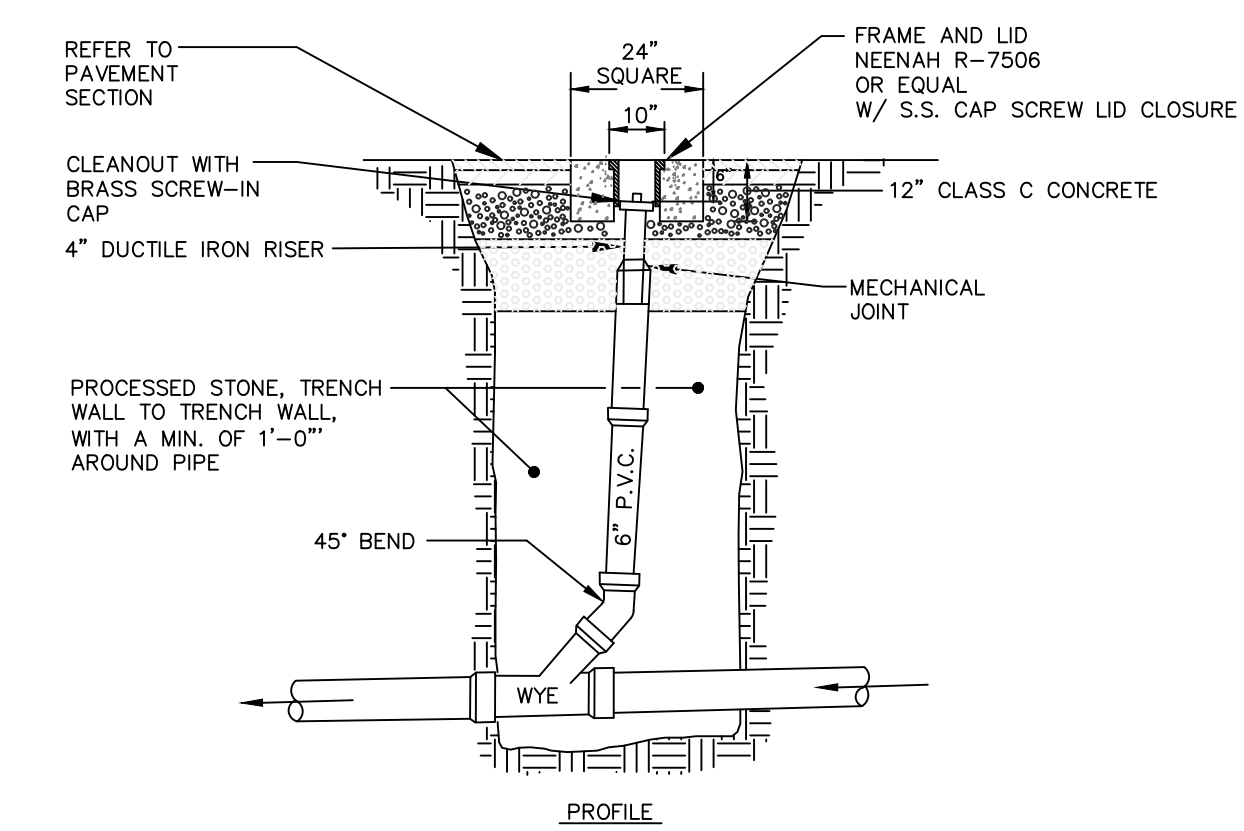
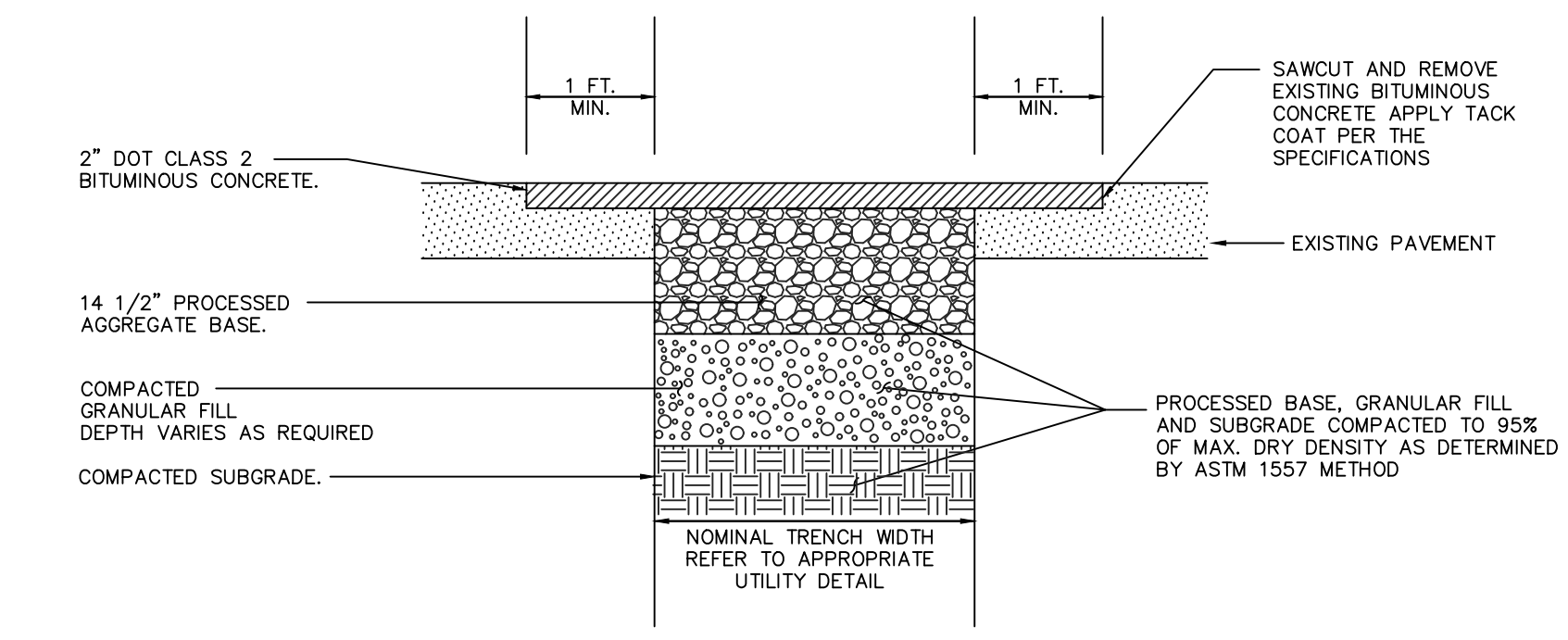
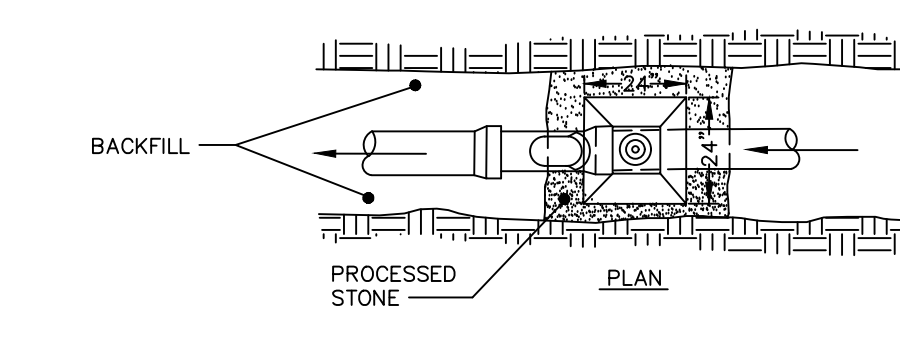
C-3.0



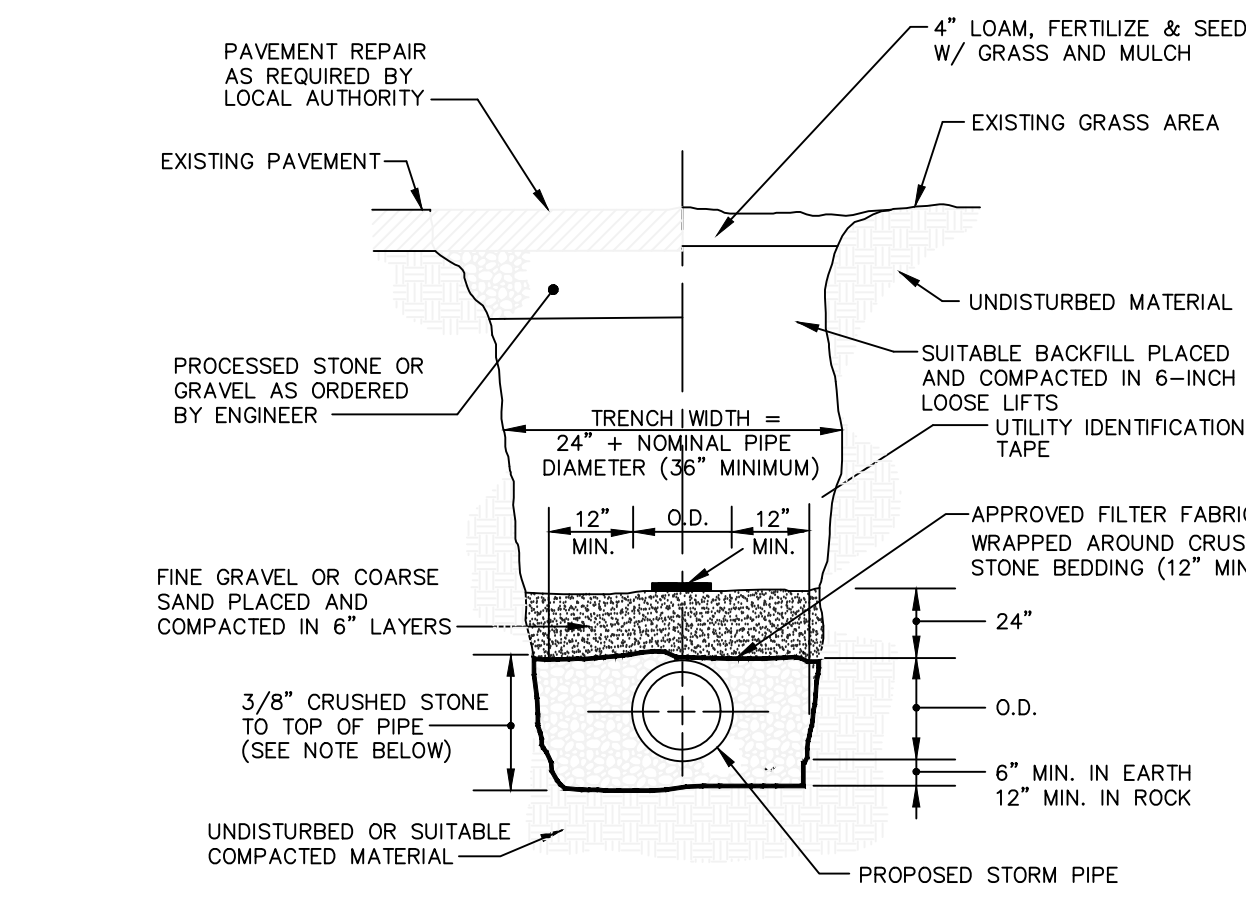
1 TYPICAL PATIO DRAIN PIPING LAYOUTS
N.T.S.



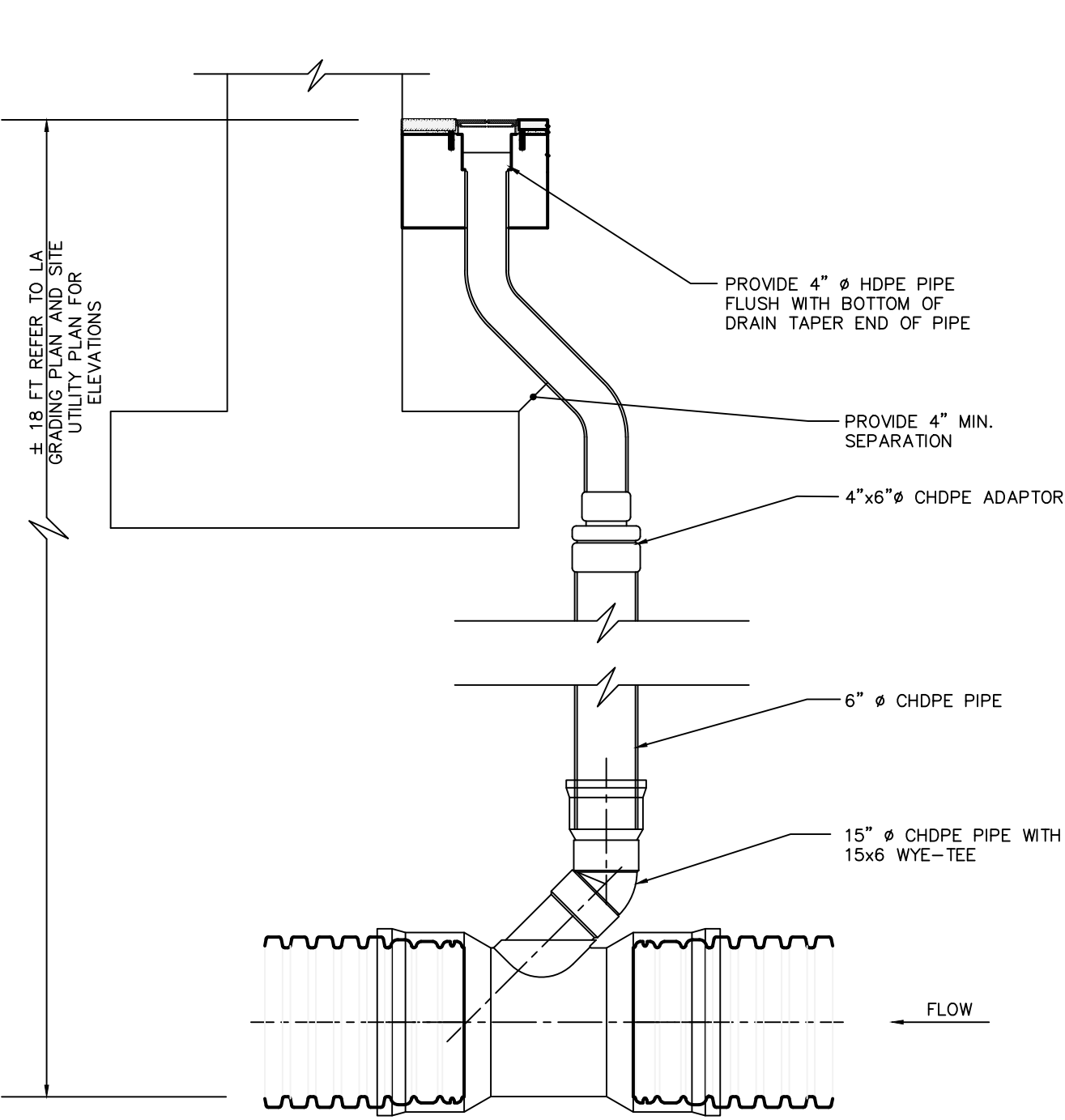
NOTES:
• 10' DIAMETER - 20,000 GALLONS
• CONCRETE SLAB WIDTHS EXPAND MIN. OF 18" BEYOND TANK ON BOTH SIDES



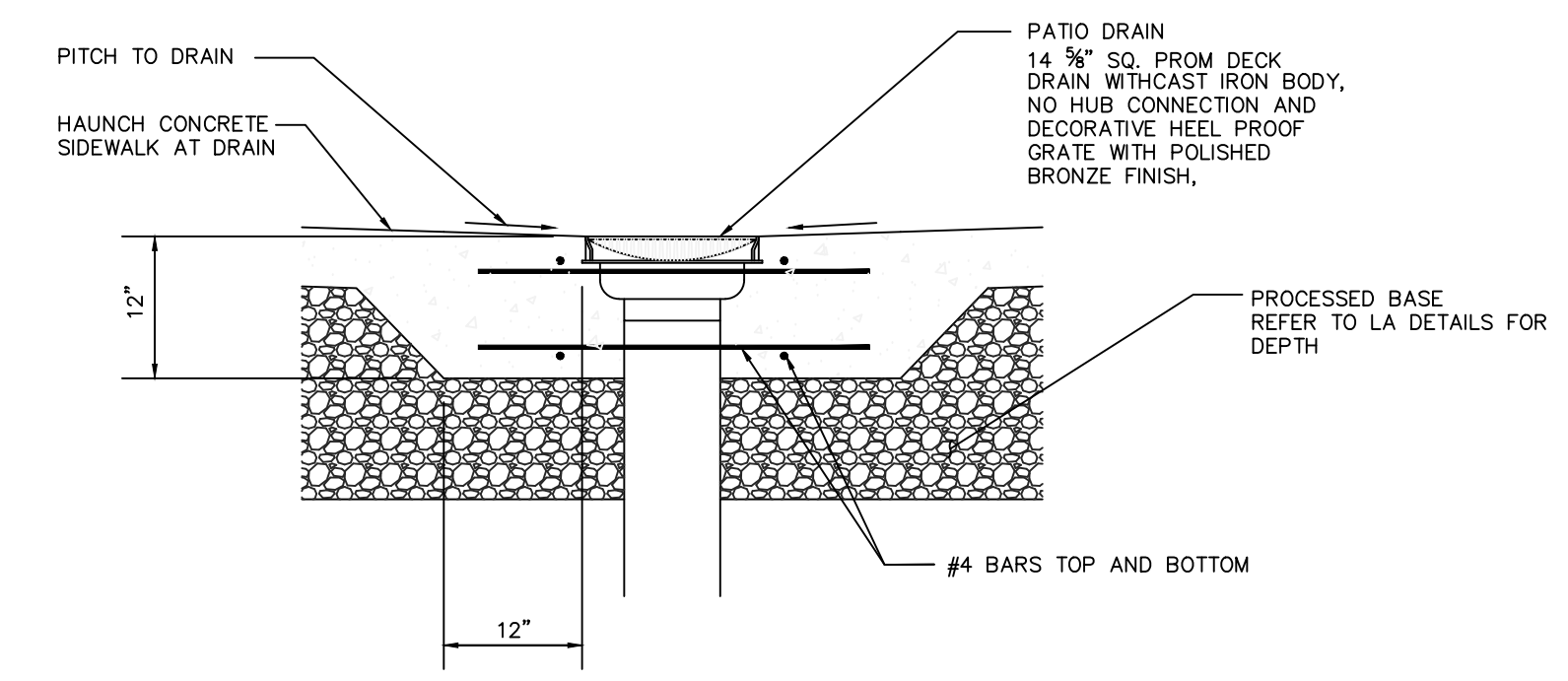
5 TYPICAL CLEAN-OUT DETAIL
N.T.S.



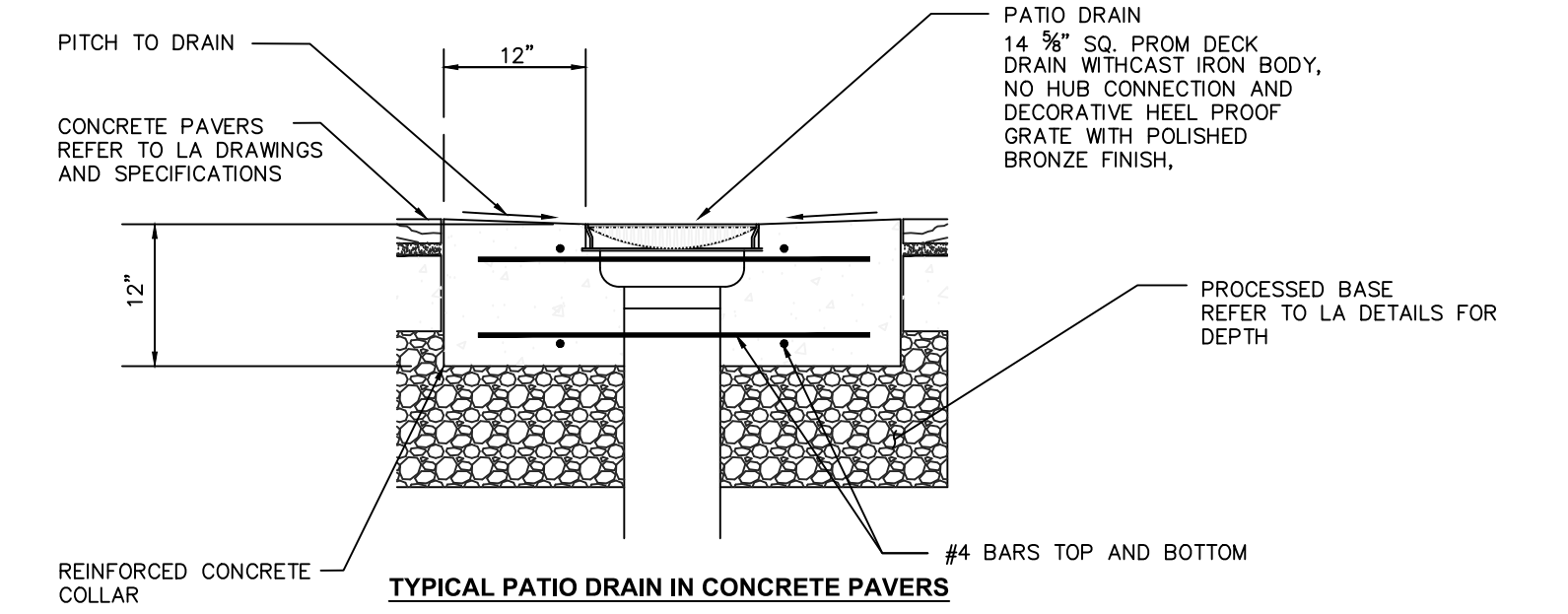
3 STORM SEWER TRENCH DETAIL
N.T.S.



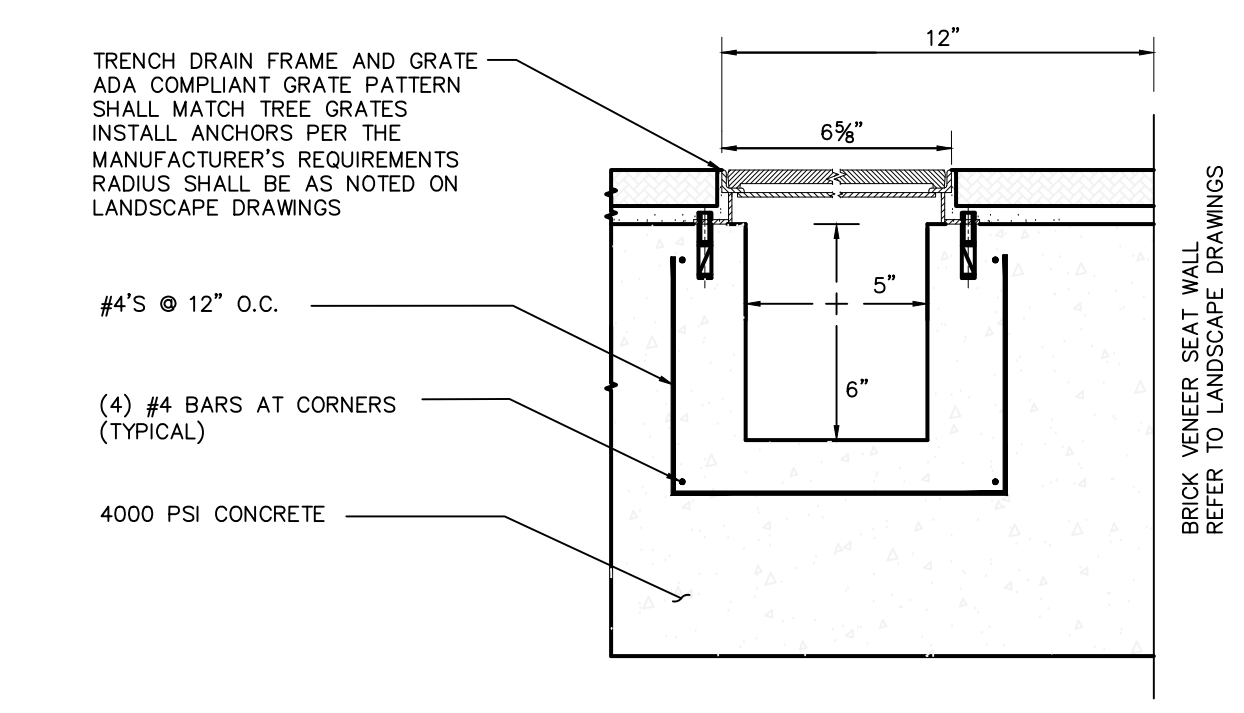
7 TRENCH DRAIN - STORM PIPING CONNECTION
N.T.S.



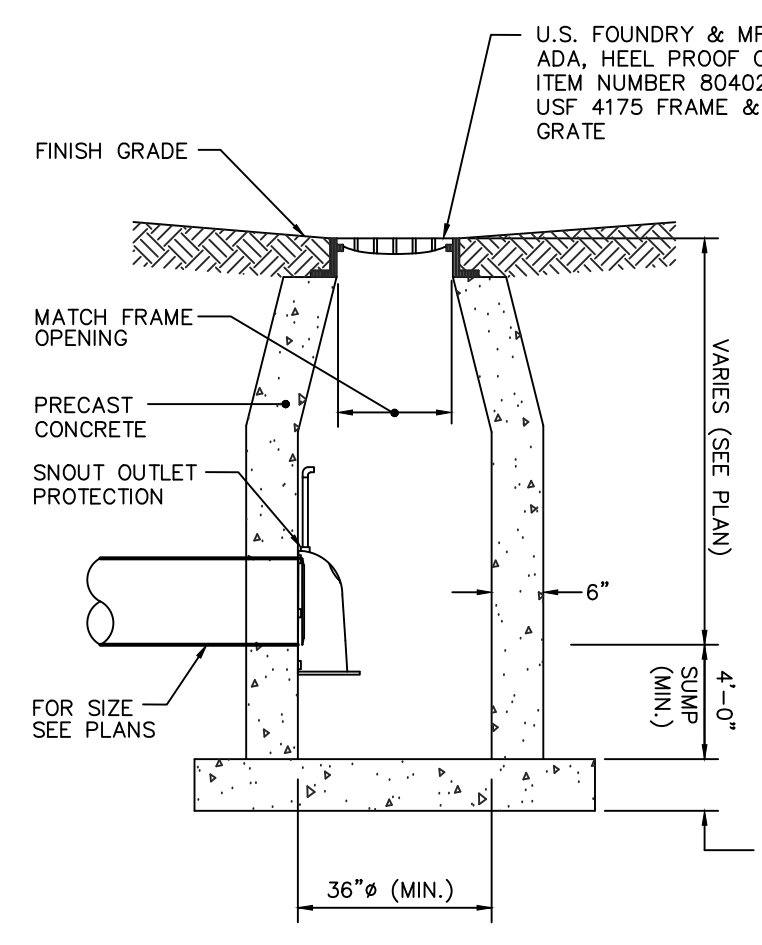
TYPICAL PATIO DRAIN IN CONCRETE SIDEWALK



8 TYPICAL PATIO DRAIN
N.T.S.

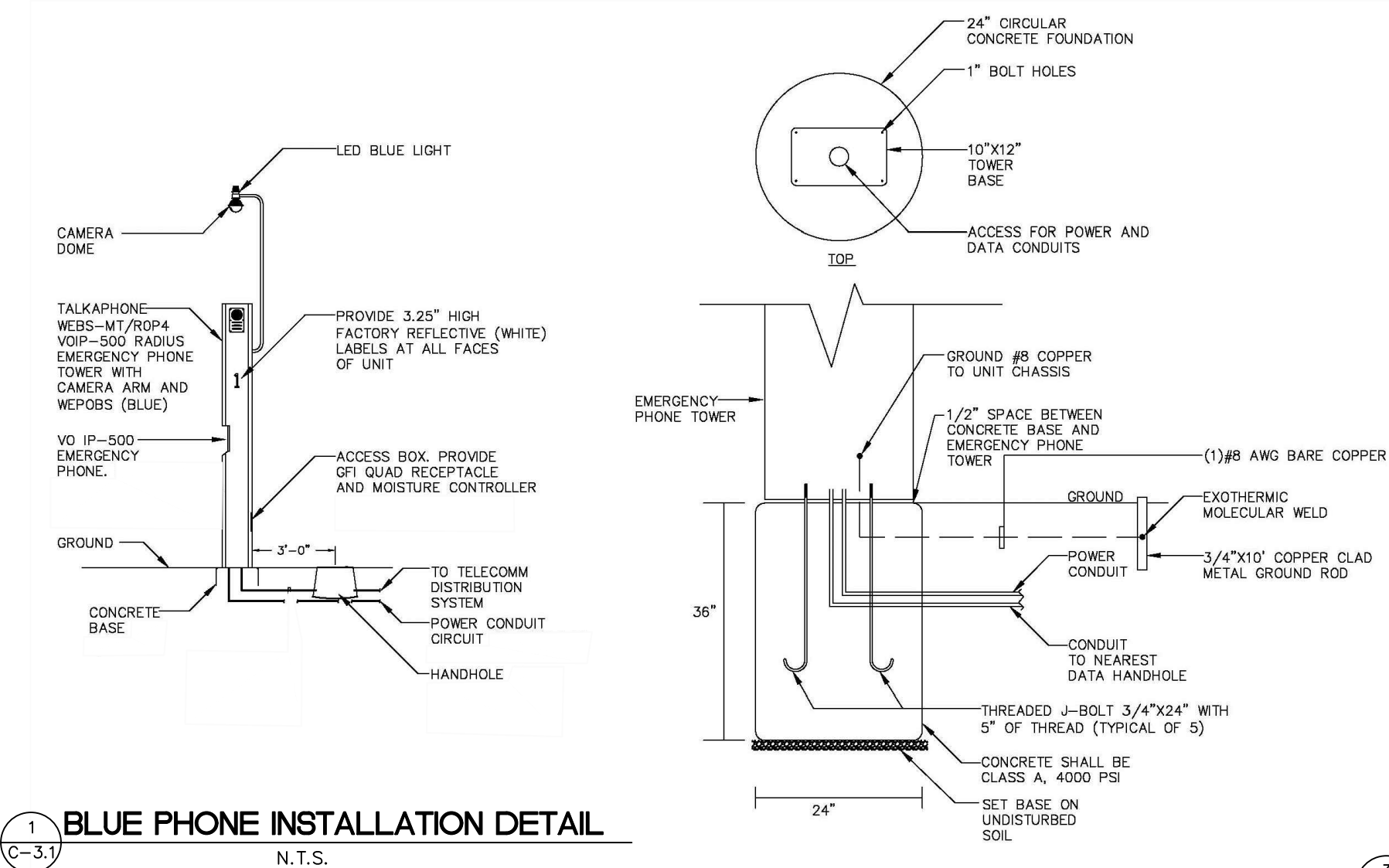


9 TRENCH DRAIN
N.T.S.

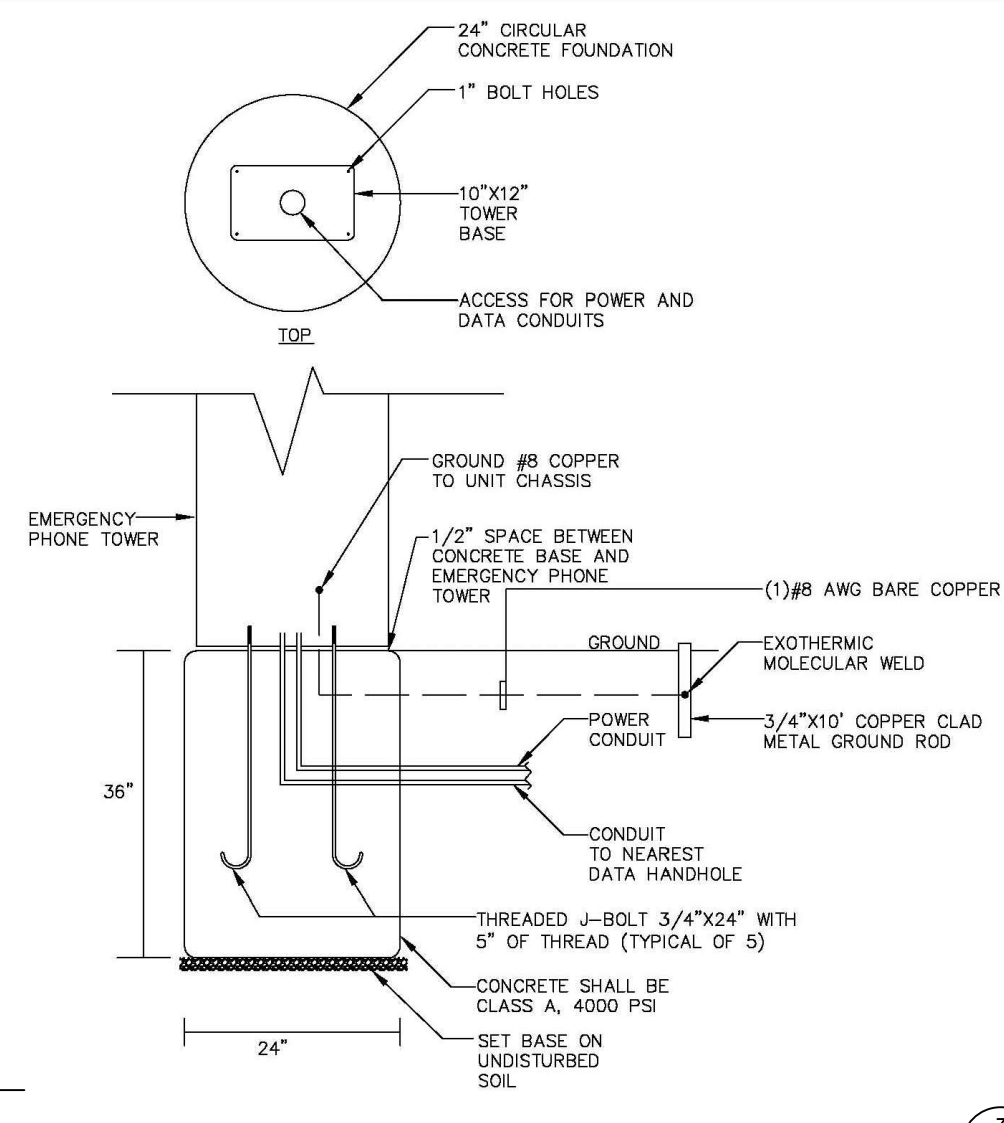


6 YARD DRAIN DETAIL
N.T.S.

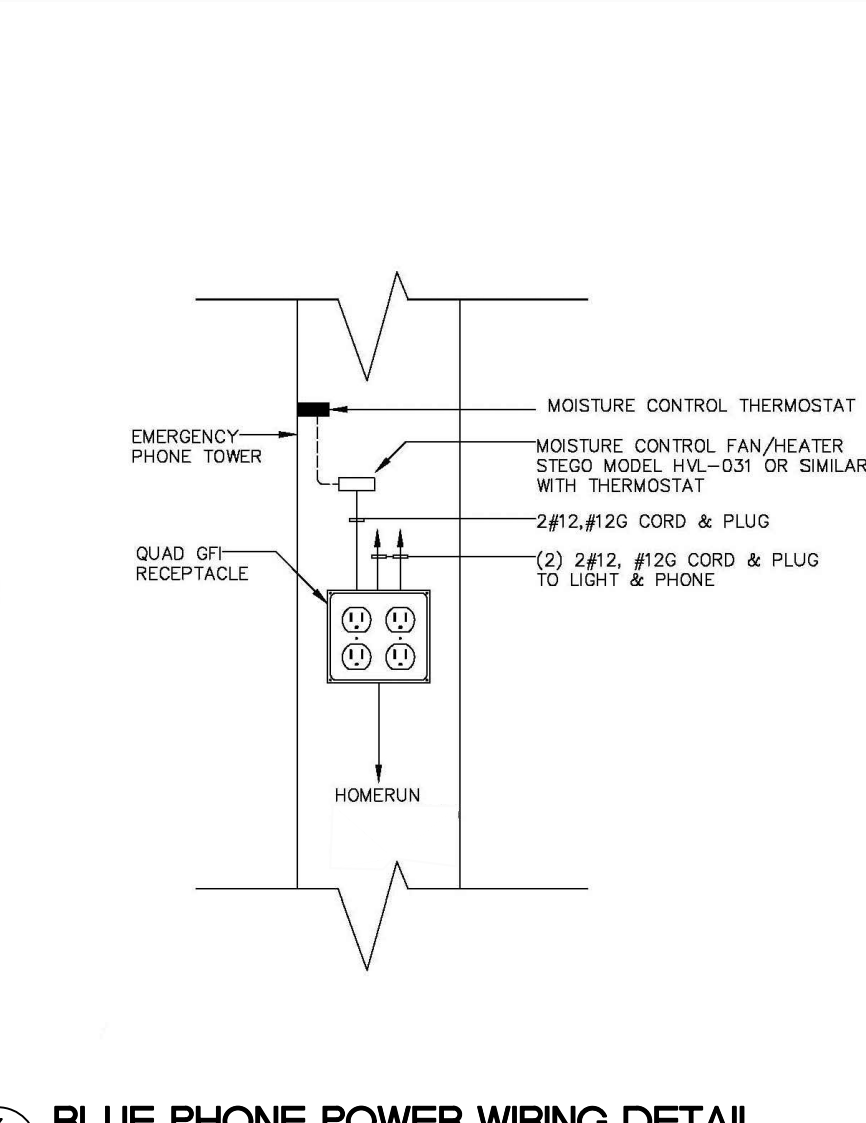
GENERAL NOTE:
 1. UTILITY DETAILS PROVIDED ON THIS SHEET ARE EXISTING AND PROVIDED FROM THE VISUAL PERFORMING ARTS CENTER PROJECT. RELOCATED ITEMS SHALL MATCH SHOWN DETAILS.



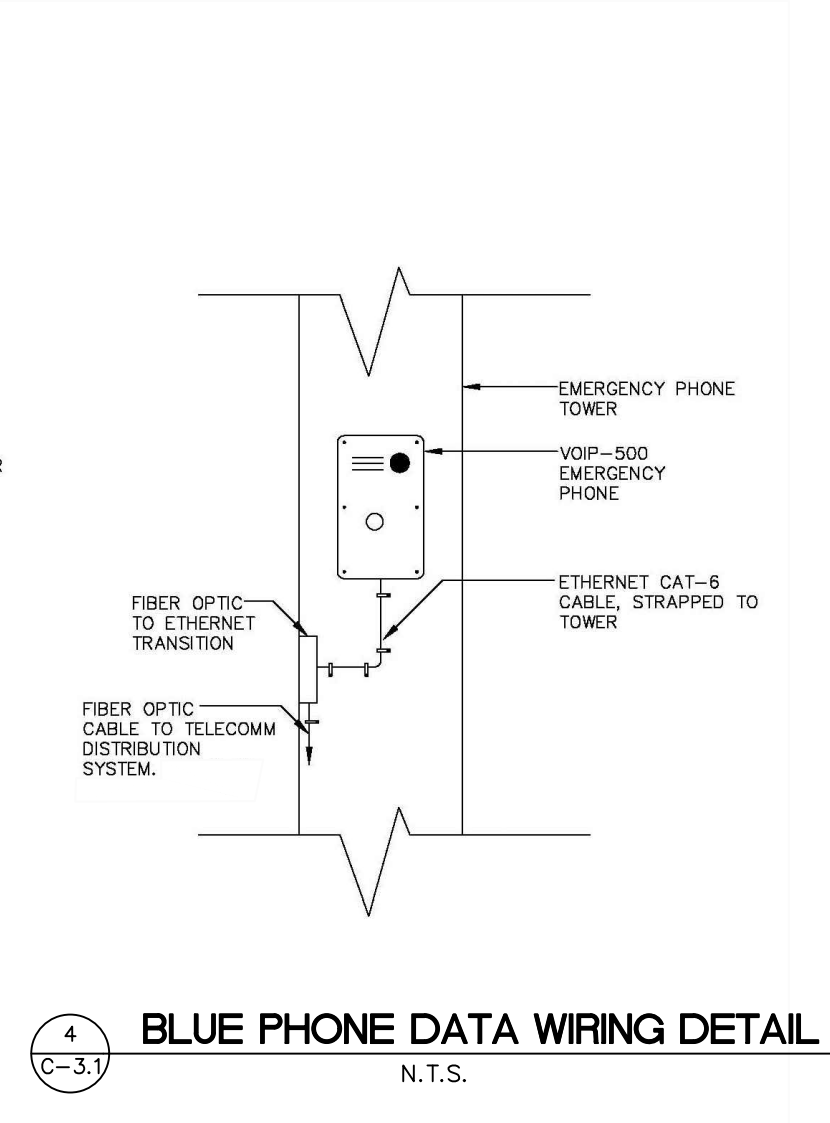
1 BLUE PHONE INSTALLATION DETAIL
 N.T.S.



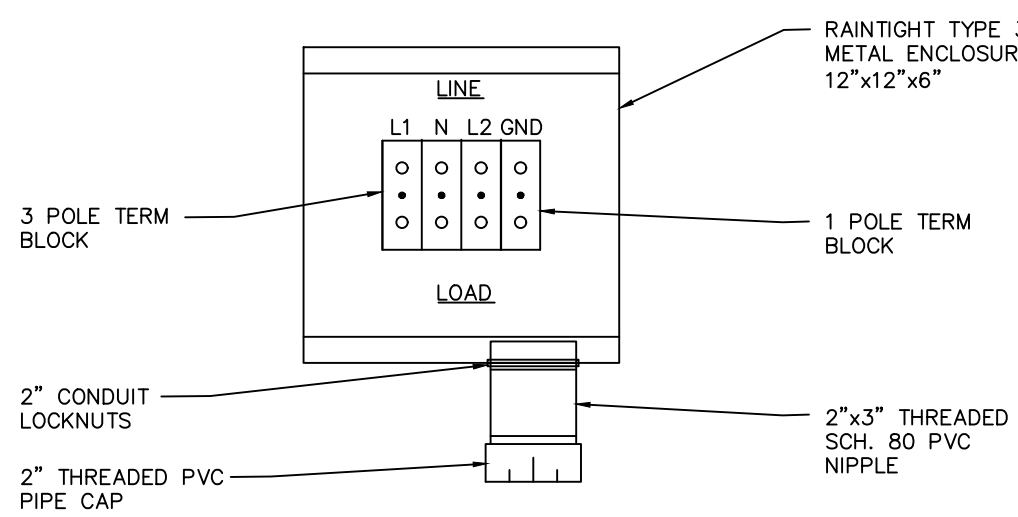
2 BLUE PHONE BASE DETAIL
 N.T.S.



3 BLUE PHONE POWER WIRING DETAIL
 N.T.S.

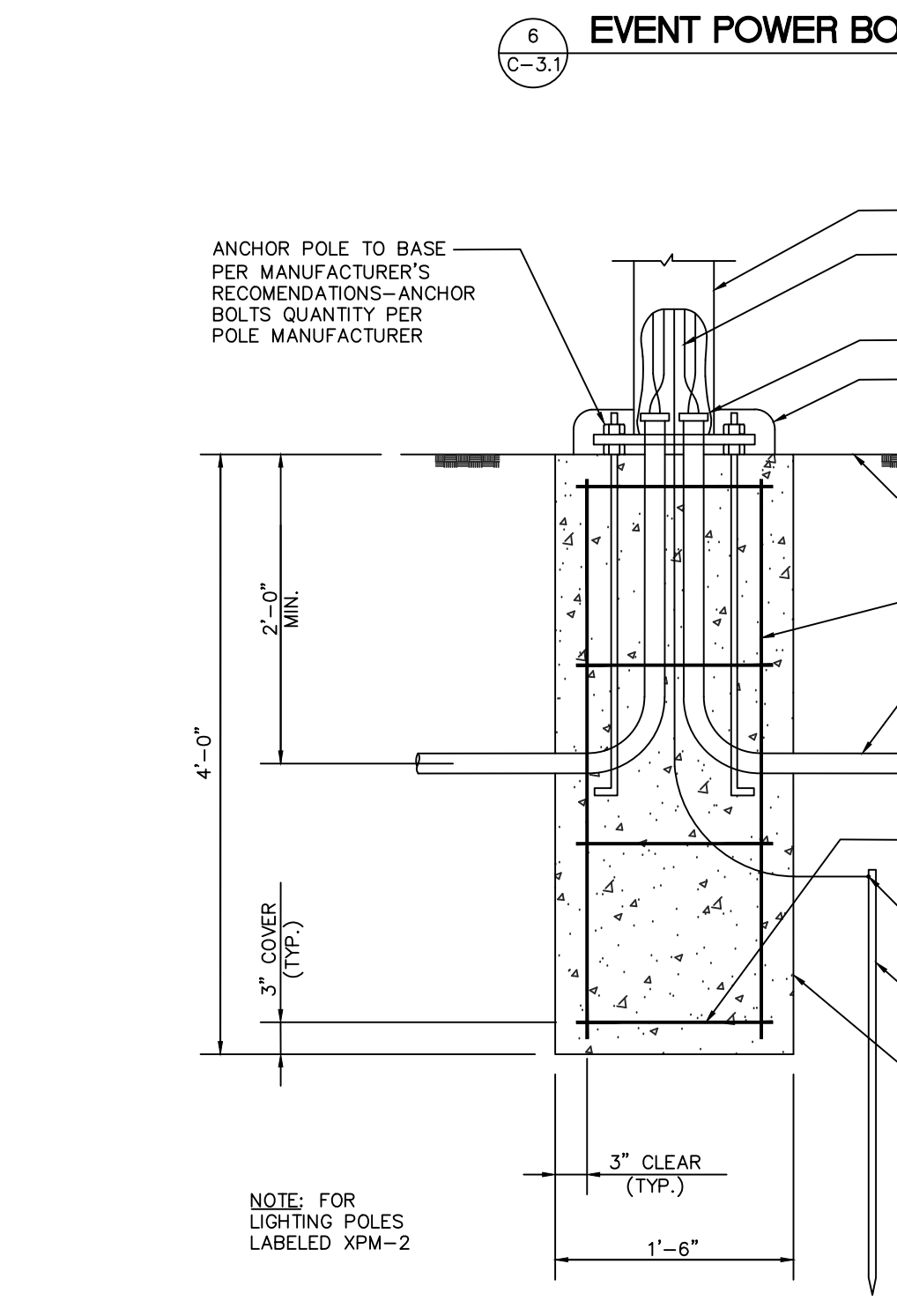


4 BLUE PHONE DATA WIRING DETAIL
 N.T.S.

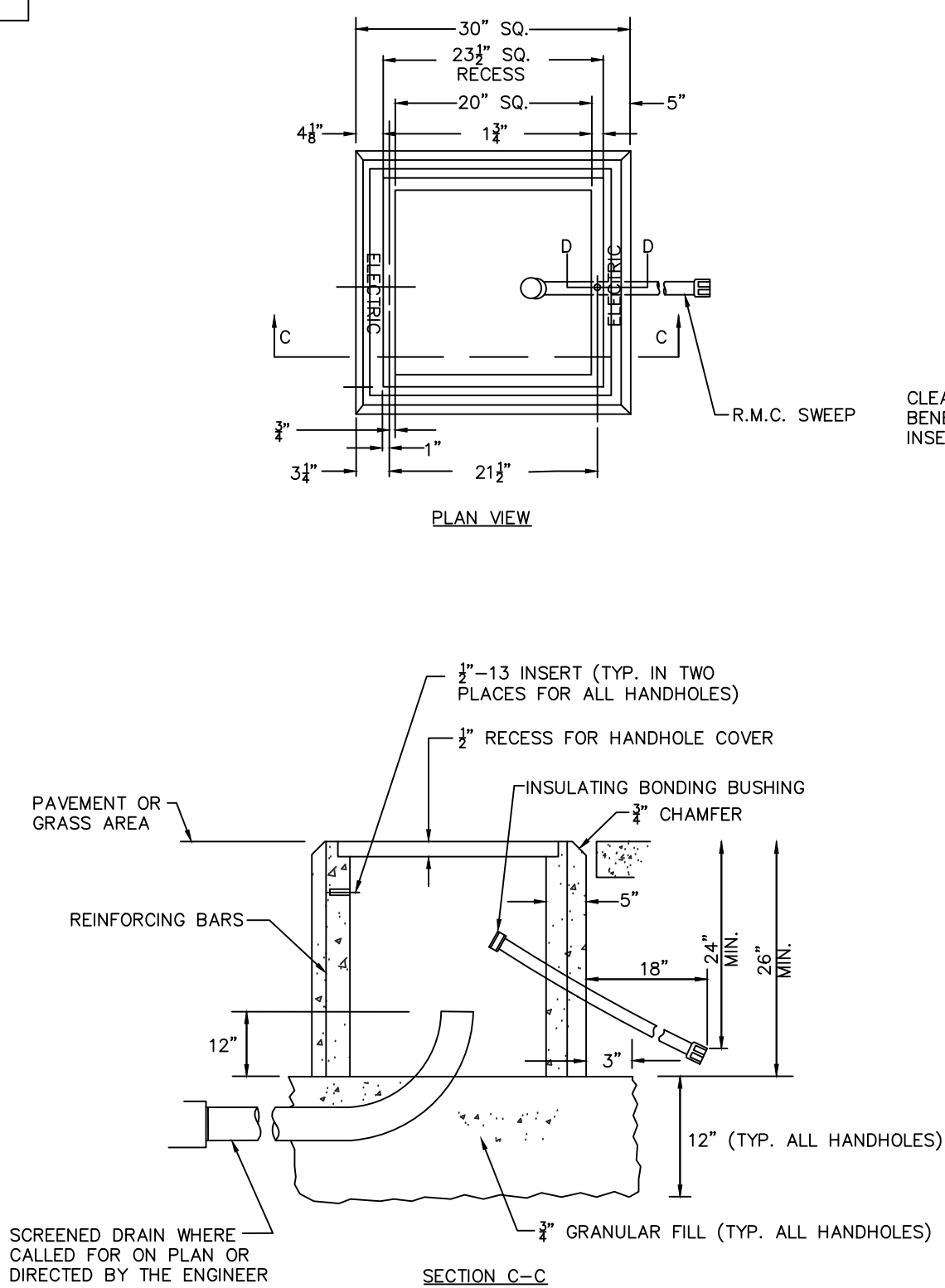


6 EVENT POWER BOX DETAIL AND PART LIST
 N.T.S.

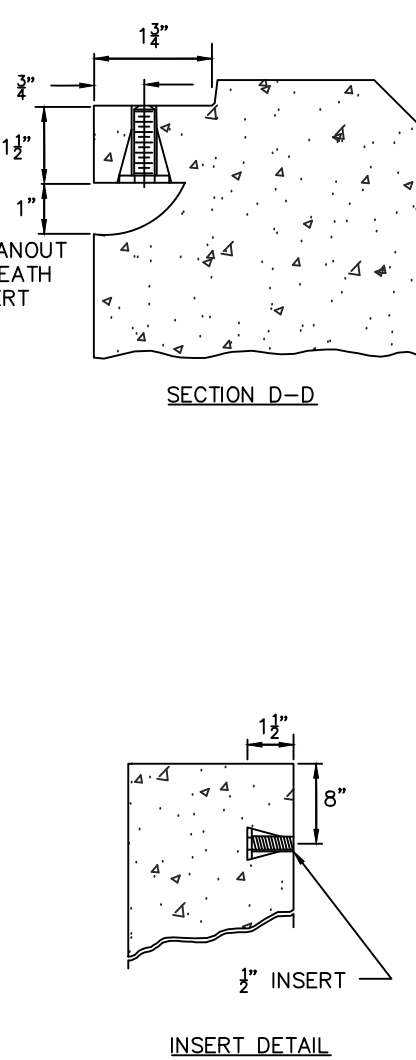
PART LIST	DESCRIPTION	QUANTITY	GRAINGER ITEM # (OR APPROVED EQUAL)
ELECTRICAL ENCLOSURE	12"x12"x6" METALLIC ENCLOSURE, GRAY	1	1ZHJ3
POWER DIST. BLOCK: 1 POLE	MINIATURE DIST. BLOCK, 175 MAX. AMPS	1	1EF57
POWER DIST. BLOCK: 3 POLE	MINIATURE DIST. BLOCK, 175 MAX. AMPS	1	3ZJA9
METALLIC CONDUIT FITTINGS	2" THREADED IMC, RIGID LOCKNUT	2	5XC33
ELECTRICAL BOX ACCESSORIES	STEEL LIQUID TIGHT SEALING RING	1	3LK95
PVC PIPE	2"x3" PVC NIPPLE, PIPE SCHEDULE 80, GRAY	1	6MW34
PIPE CAP	2" CAP, POLYPROPYLENE, MAX. PRESSURE 150 PSI, BLACK	1	1MJW7



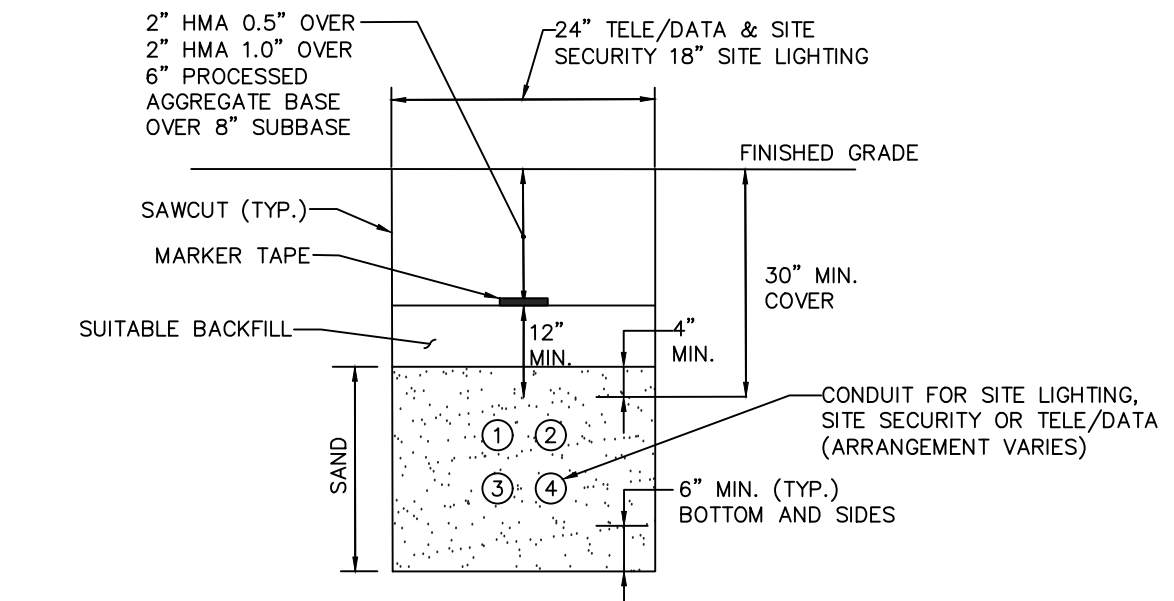
8 SITE LIGHTING BASE
 N.T.S.



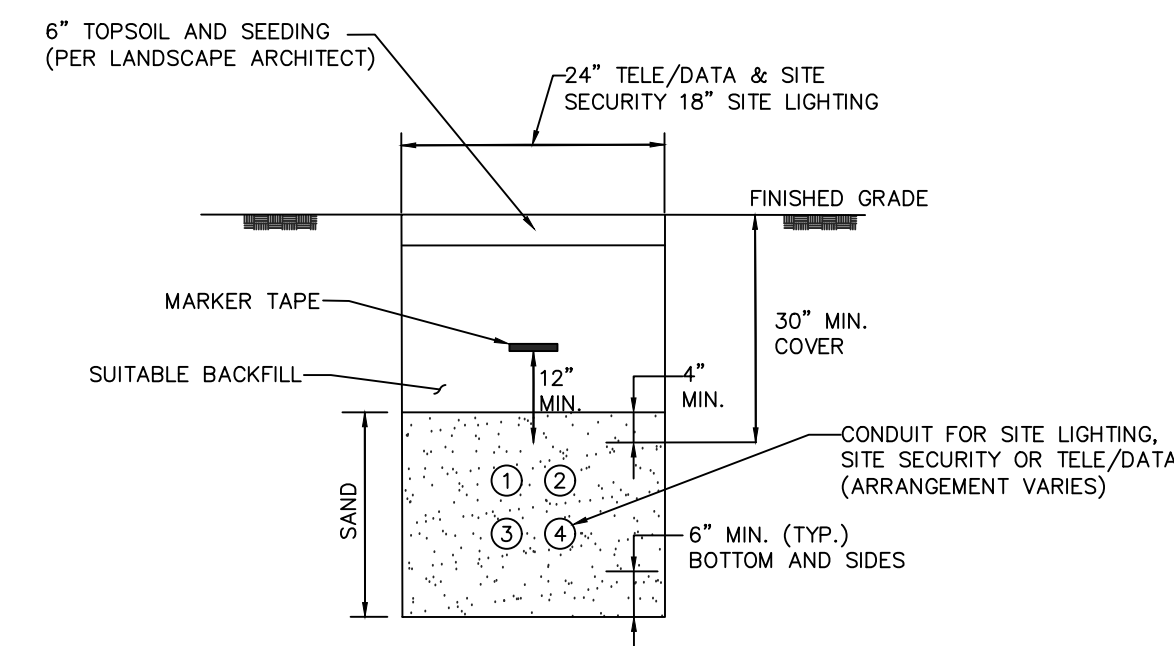
9 CONCRETE HANDHOLE
 N.T.S.



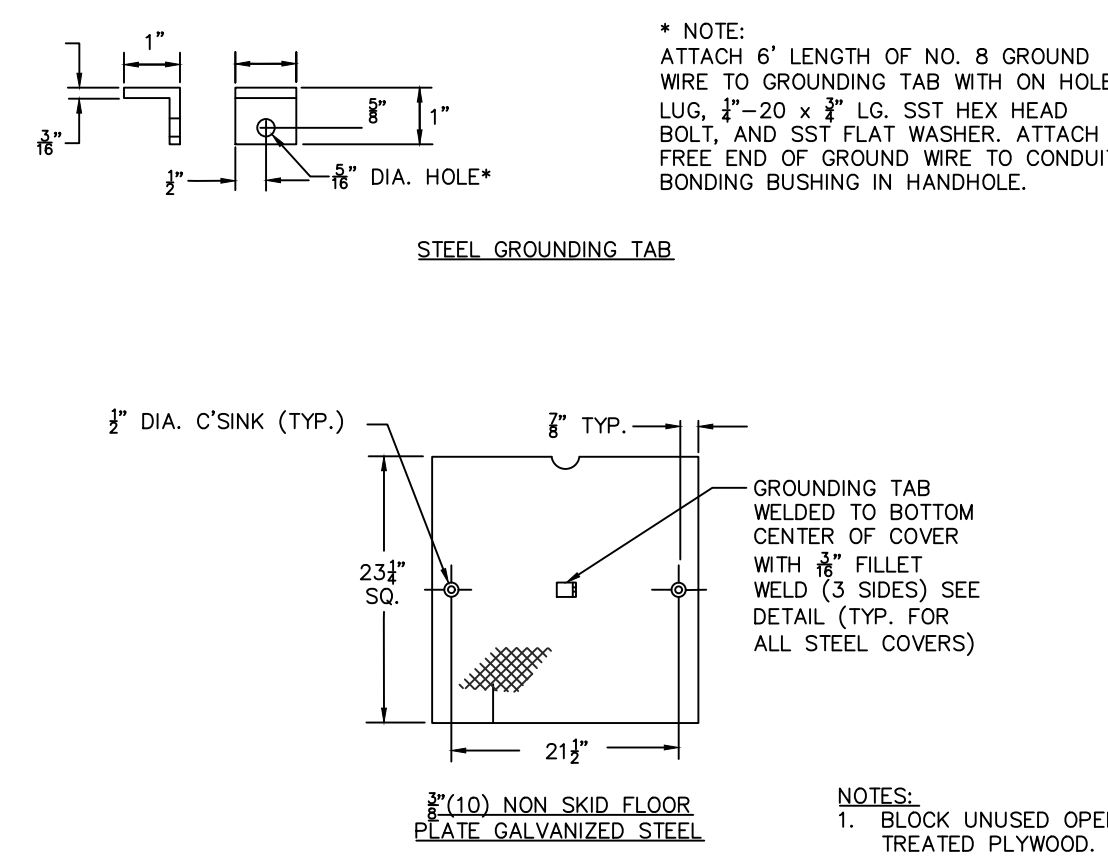
10 HANDHOLE COVER
 N.T.S.



5 SITE LIGHTING, SITE SECURITY AND TELE/DATA CONDUIT TRENCH (UNDER ROADWAY)
 N.T.S.



7 SITE LIGHTING, SITE SECURITY AND TELE/DATA CONDUIT TRENCH (LAWN AREAS)
 N.T.S.



STEEL GROUNDING TAB

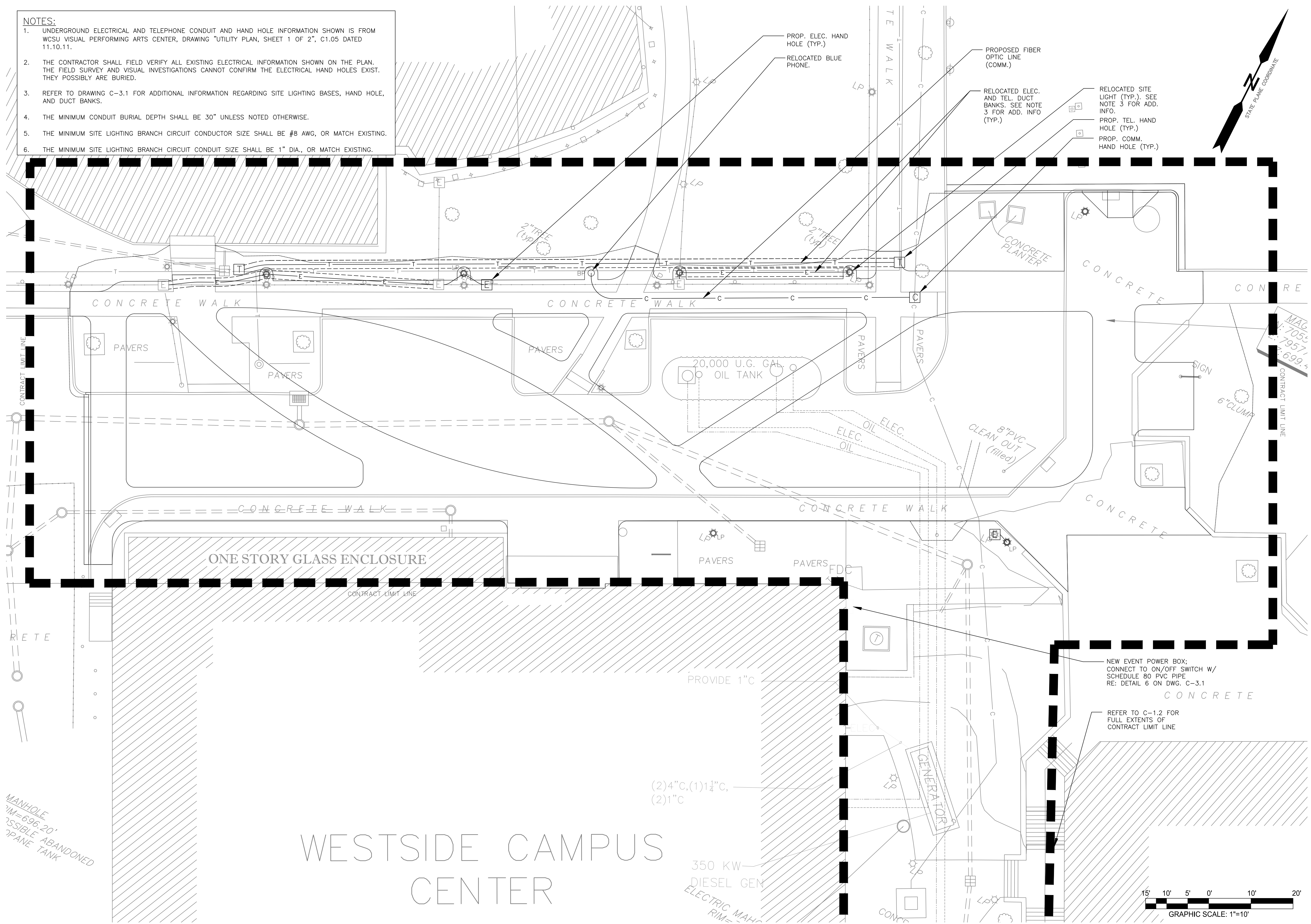
* NOTE:
 ATTACH 6" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ON HOLE LUG, 1"-20 x 2" LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.

- NOTES:
- BLOCK UNUSED OPENINGS OF HANDHOLE ON THE OUTSIDE WITH PRESSURE TREATED PLYWOOD.
 - GROUT AROUND ALL CONDUITS.
 - USE 1 1/2" x 1/2" CONCRETE INSERT. STANDARD THREAD, STAINLESS STEEL, FLAT HEAD BOLT, RECESSED IN PLATE COVER, INSERTS TO HAVE CLEANOUTS.
 - TYPE II HANDHOLE 30" SIDE INSTALLED PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
 - CAST THE WORD "ELECTRICAL" OR "COMMUNICATION" INTO TOP EDGE OF HANDHOLE, 1 1/2" LETTERS AS APPROPRIATE.
 - 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES.

Revisions

No.	Date

- NOTES:**
1. UNDERGROUND ELECTRICAL AND TELEPHONE CONDUIT AND HAND HOLE INFORMATION SHOWN IS FROM WCSU VISUAL PERFORMING ARTS CENTER, DRAWING "UTILITY PLAN, SHEET 1 OF 2", C1.05 DATED 11.10.11.
 2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELECTRICAL INFORMATION SHOWN ON THE PLAN. THE FIELD SURVEY AND VISUAL INVESTIGATIONS CANNOT CONFIRM THE ELECTRICAL HAND HOLES EXIST. THEY POSSIBLY ARE BURIED.
 3. REFER TO DRAWING C-3.1 FOR ADDITIONAL INFORMATION REGARDING SITE LIGHTING BASES, HAND HOLE, AND DUCT BANKS.
 4. THE MINIMUM CONDUIT BURIAL DEPTH SHALL BE 30" UNLESS NOTED OTHERWISE.
 5. THE MINIMUM SITE LIGHTING BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #8 AWG, OR MATCH EXISTING.
 6. THE MINIMUM SITE LIGHTING BRANCH CIRCUIT CONDUIT SIZE SHALL BE 1" DIA., OR MATCH EXISTING.



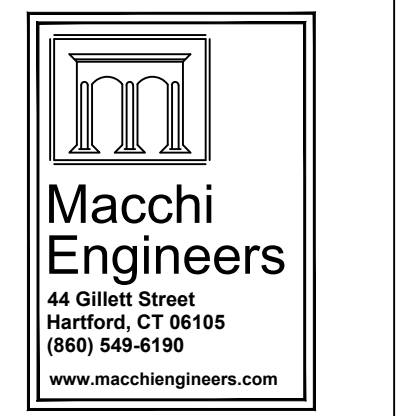
1 SITE ELECTRICAL PLAN
1" = 10'-0"



WCSU
Planning and Engineering
181 White Street
Danbury, CT 06810
www.wcsu.edu

Revisions	
No.	Date

**OIL TANK REMOVAL
AT PLAZA**
Between VPAC & West Side Campus Center



**SITE
ELECTRICAL
PLAN**

**100% CD
SUBMISSION**

Project No. CF-RD 309

By: JWK

Scale: AS NOTED

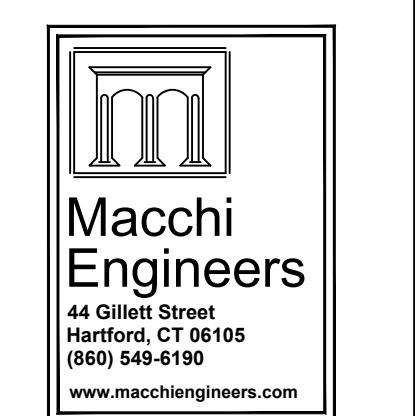
Issue Date: 9/6/2019

C-4.0

Revisions

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OIL TANK REMOVAL AT PLAZA
Between VPAC & West Side Campus Center



SITE IRRIGATION PLAN

100% CD SUBMISSION

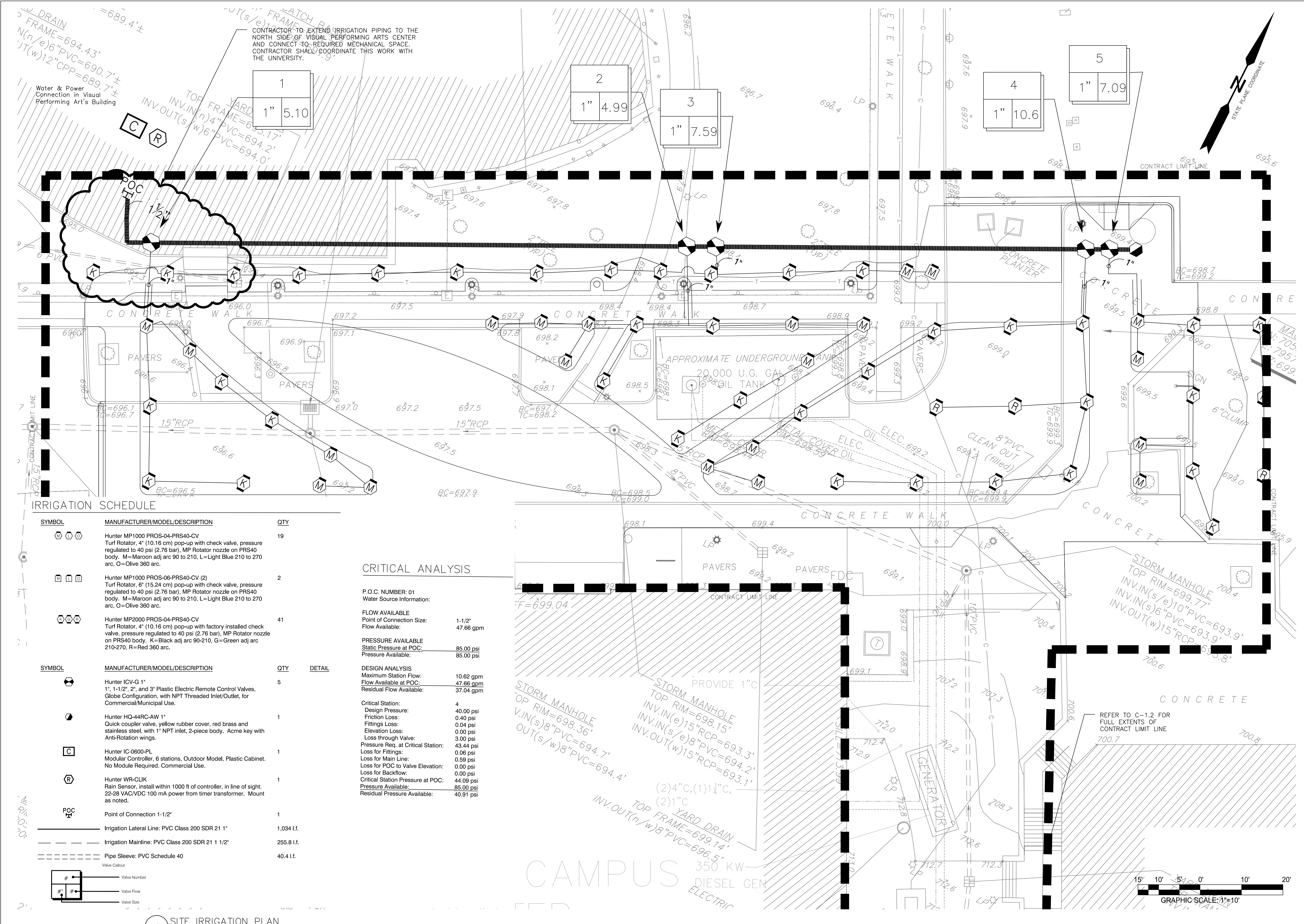
Project No. CF-RD 309

By: JWK

Scale: AS NOTED

Issue Date: 9/6/2019

IR-1.0



CONTRACTOR TO EXTEND IRRIGATION PIPING TO THE NORTH SIDE OF VISUAL PERFORMING ARTS CENTER AND CONNECT TO REQUIRED MECHANICAL SPACE. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE UNIVERSITY.

Water & Power Connection in Visual Performing Art's Building

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Hunter MP1000 PROS-04-PRS40-CV Turf Rotator, 4" (10.16 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	19	
	Hunter MP1000 PROS-06-PRS40-CV (2) Turf Rotator, 6" (15.24 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	2	
	Hunter MP2000 PROS-04-PRS40-CV Turf Rotator, 4" (10.16 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	41	
	Hunter ICV-G 1" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	5	
	Hunter HQ-44RC-AW 1" Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme key with Anti-Rotation wings.	1	
	Hunter IC-0600-PL Modular Controller, 6 stations, Outdoor Model, Plastic Cabinet. No Module Required. Commercial Use.	1	
	Hunter WR-CLK Rain Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted.	1	
	Point of Connection 1-1/2"	1	
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	1,034 l.f.	
	Irrigation Mainline: PVC Class 200 SDR 21 1 1/2"	255.8 l.f.	
	Pipe Sleeve: PVC Schedule 40	40.4 l.f.	

CRITICAL ANALYSIS

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 1-1/2"
Flow Available: 47.66 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 85.00 psi
Pressure Available: 85.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 10.62 gpm
Flow Available at POC: 47.66 gpm
Residual Flow Available: 37.04 gpm

Critical Station: 4
Design Pressure: 40.00 psi
Friction Loss: 0.40 psi
Fittings Loss: 0.04 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.00 psi
Pressure Req. at Critical Station: 43.44 psi
Loss for Fittings: 0.06 psi
Loss for Main Line: 0.59 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Critical Station Pressure at POC: 44.00 psi
Pressure Available: 85.00 psi
Residual Pressure Available: 40.91 psi