

TOWN OF MONTVILLE, CONNECTICUT

CONTRACT DRAWINGS FOR

COOK HILL TANK REPLACEMENT PROJECT

MONTVILLE WATER SUPPLY

NOVEMBER 2022

DRAWING INDEX

GENERAL

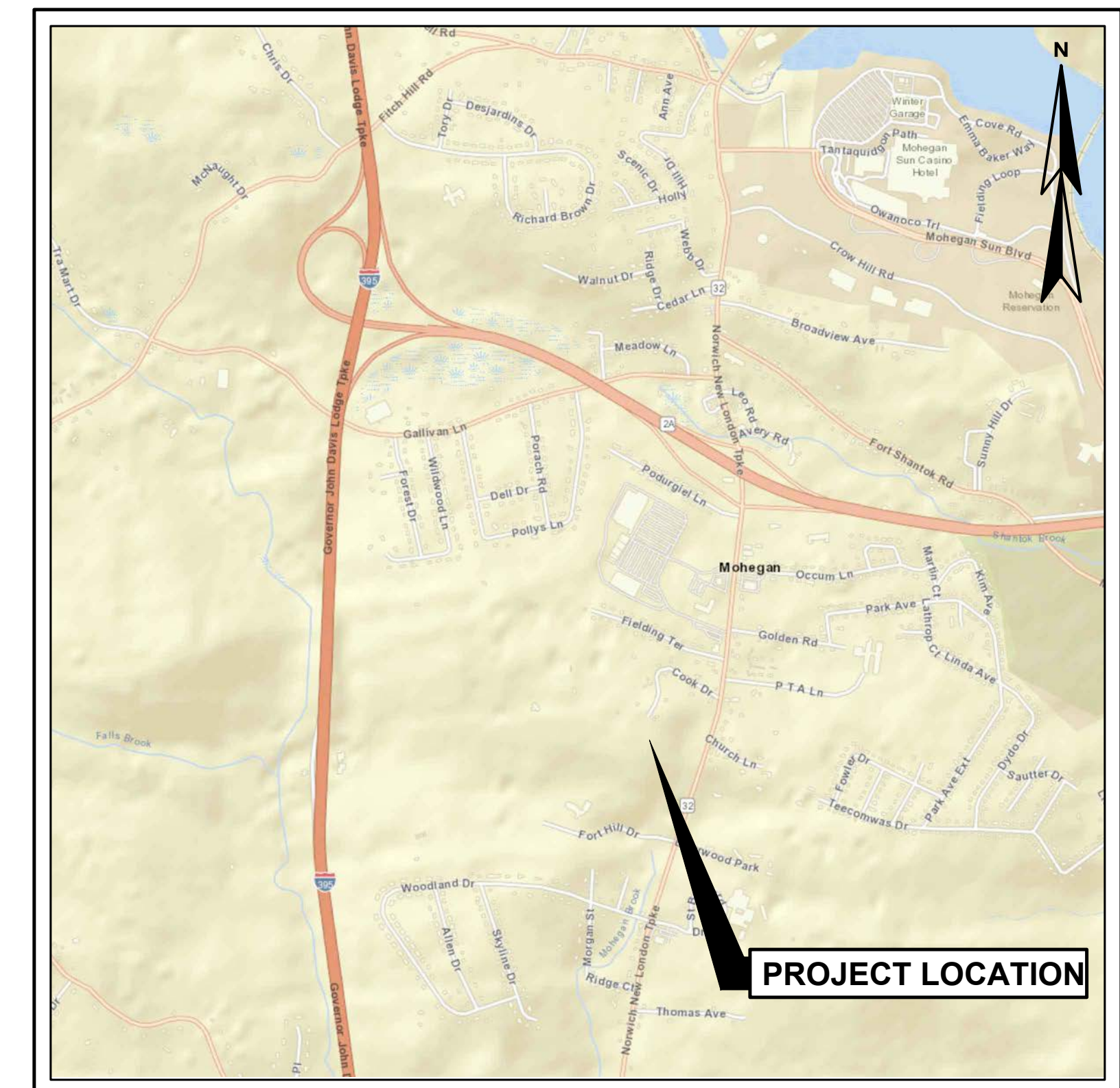
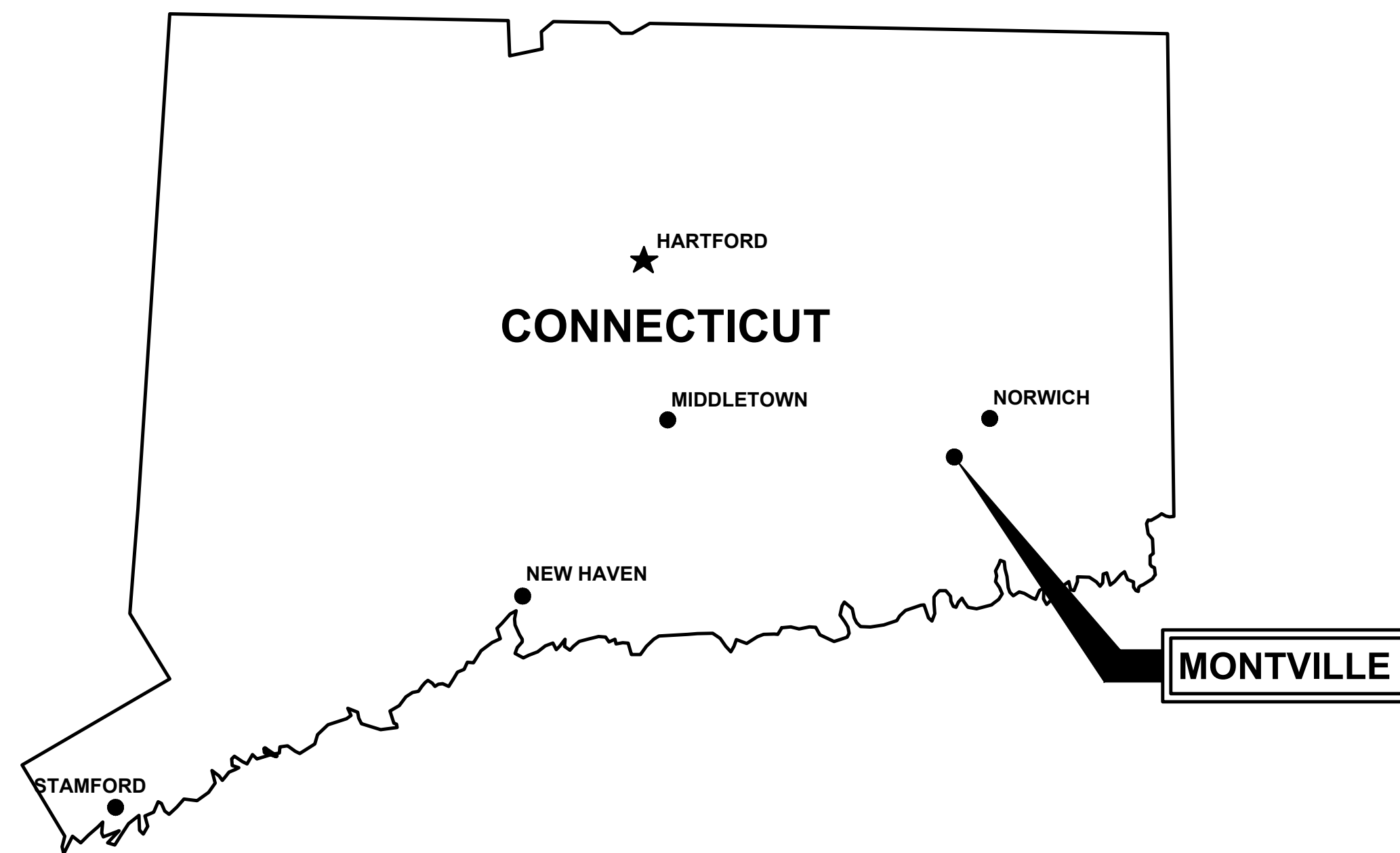
--- COVER

CIVIL

C-1 GENERAL NOTES, LEGEND, ABBREVIATIONS, AND DETAILS
 C-2 EXISTING SITE CONDITIONS AND DEMOLITION PLAN
 C-3 SITE PIPING, LAYOUT AND GRADING PLANS
 C-4 EROSION CONTROL NOTES AND DETAILS
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SURVEY

--- SURVEY



LOCATION PLAN
SCALE: 1"=2,000'

ZONING INFORMATION

ON 9/7/2022, THE MONTVILLE ZONING BOARD OF APPEALS GRANTED THE FOLLOWING SETBACK VARIANCES FOR PROPOSED STRUCTURES:

1. TANK: A 22.6' VARIANCE OF THE REQUIRED 40' R20 FRONT YARD SETBACK; AND A 27" VARIANCE OF THE REQUIRED 40' R20 REAR YARD SETBACK.
2. EQUIPMENT BOXES: A 25' VARIANCE OF THE REQUIRED 40' FRONT YARD SETBACK; A 7.8' VARIANCE OF THE REQUIRED 10' WEST SIDE YARD SETBACK; AND A 19' VARIANCE OF THE REQUIRED 40' REAR YARD SETBACK.
3. STANDBY GENERATOR: A 3' VARIANCE OF THE REQUIRED 10' SIDE YARD SETBACK AND 34' VARIANCE OF THE REQUIRED 40' REAR YARD SETBACK.

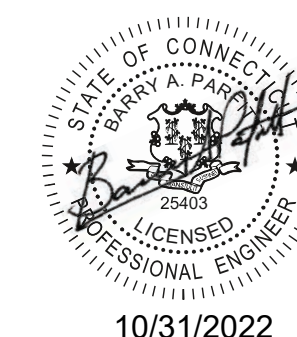
CONTACT INFORMATION

APPLICANT
 NAME: RONALD K. MCDANIEL, MAYOR C/O MONTVILLE WPCA
 PHONE: (860) 848-6776
 ADDRESS: 83 PINK ROW, UNCASVILLE, CT 06382

OWNER OF RECORD
 NAME: TOWN OF MONTVILLE
 PHONE: (860) 848-3030
 ADDRESS: 310 NORWICH-NEW LONDON TPKE., UNCASVILLE, CT 06382

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"APPROVED BY THE TOWN OF MONTVILLE PLANNING AND ZONING COMMISSION"

SIGNATURE OF CHAIRMAN OR SECRETARY DATE

WP PROJECT No. 20410B

GENERAL NOTES

- 1. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING...

EXISTING SITE CONDITIONS

- 1. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN...

WATER: MONTVILLE WATER SUPPLY
ADDRESS: 83 PINK ROW, UNCASVILLE, CT 06382
PHONE: (860) 848-3830

- 3. THERE ARE NO KNOWN HAZARDOUS ENVIRONMENTAL CONDITIONS WITHIN THE AREA OF WORK. IF THE PRESENCE OF HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER IMMEDIATELY...

SITE DEMOLITION

- 1. REFER TO THE EXISTING SITE PLAN, FOR ADDITIONAL INFORMATION REGARDING EXISTING FACILITIES. REFER TO THE LAYOUT DRAWING FOR LIMITS OF WORK.

SITE CLEARING, GRUBBING AND GRADING

- 1. STRIPPING OF TOPSOIL (LOAM) SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115. REFER TO THE LAYOUT AND GRADING DRAWINGS FOR LIMIT OF WORK AND STRIPPING.

CIVIL SITE LAYOUT

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

CIVIL SITE PIPING

- 1. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.

WATER MAIN GENERAL NOTES

- 1. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION.

- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE NEW WATER MAIN. LAYOUT SHALL BE REVIEWED AND ACCEPTED BY THE OWNER AND ENGINEER. THE NEW WATER MAIN MUST BE LOCATED WITHIN THE RIGHTS-OF-WAY SHOWN ON THE DRAWINGS.

STRUCTURAL DESIGN CRITERIA

REFERENCE SPECIFICATION 13004

ALLOWABLE SUBGRADE BEARING PRESSURE = 20 TONS/5F

LIVE LOADS:

REF: 2022 CONNECTICUT STATE BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

OCCUPANCY RISK CATEGORY IV

WIND LOADS:

BASIC WIND SPEED (V): Vult = 142 MPH
Vasd = 109 MPH
IMPORTANCE FACTOR (Iw) = 1.0
EXPOSURE CATEGORY C

SNOW LOADS:

GROUND SNOW LOAD (Pg) = 30 PSF
IMPORTANCE FACTOR (Ie) = 1.2
EXPOSURE FACTOR (Ce) = 1.1
THERMAL FACTOR (Ct) = -1.2
EXPOSURE CATEGORY C
SLOPE FACTOR (Cs) = 1.1

SEISMIC LOADS:

EQUIVALENT LATERAL FORCE ANALYSIS
IMPORTANCE FACTOR (Ie) = 1.5
SITE CLASSIFICATION C
0.2s SPECTRAL RESPONSE ACCELERATION (Ss) = 0.198
1.0s SPECTRAL RESPONSE ACCELERATION (S1) = 0.054

CIVIL ABBREVIATIONS

Table with 2 columns: CIVIL ABBREVIATIONS (e.g., &, Ø, DIA, #, NO AC) and AND (e.g., DIAMETER, NUMBER, ASBESTOS CEMENT).

LEGEND

Table with 3 columns: EXISTING, PROPERTY/ROW LINE, and PROPOSED. It lists various symbols for utilities, structures, and terrain like DRILLHOLE, SURVEY CONTROL POINT, and UNDERGROUND ELECTRIC.

Project and drawing information block containing PROJECT NO., DESIGNED BY, CAD COORD, CHECKED BY, APPROVED BY, DATE, DRAWING title (TOWN OF MONTVILLE, CONNECTICUT COOK HILL TANK REPLACEMENT PROJECT MONTVILLE WATER SUPPLY), and REVISIONS table.



PHOTO 1
NEW TANK LOCATION



PHOTO 2
EXISTING TANK

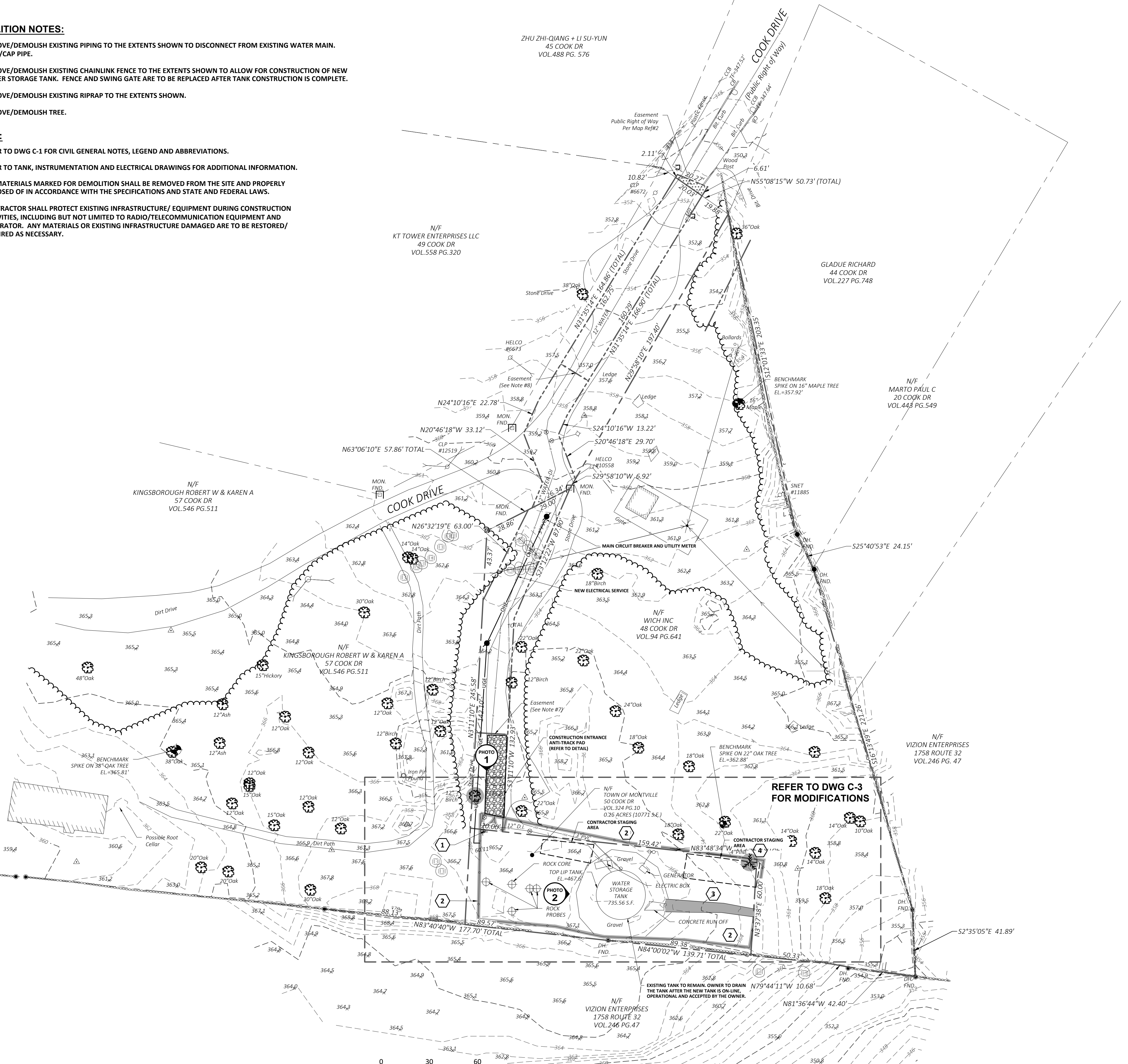
DEMOLITION NOTES:

- 1 REMOVE/DEMOLISH EXISTING PIPING TO THE EXTENTS SHOWN TO DISCONNECT FROM EXISTING WATER MAIN. PLUG/CAP PIPE.
- 2 REMOVE/DEMOLISH EXISTING CHAINLINK FENCE TO THE EXTENTS SHOWN TO ALLOW FOR CONSTRUCTION OF NEW WATER STORAGE TANK. FENCE AND SWING GATE ARE TO BE REPLACED AFTER TANK CONSTRUCTION IS COMPLETE.
- 3 REMOVE/DEMOLISH EXISTING RIPRAP TO THE EXTENTS SHOWN.
- 4 REMOVE/DEMOLISH TREE.

NOTES:

- 1 REFER TO DWG C-1 FOR CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- 2 REFER TO TANK, INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 ALL MATERIALS MARKED FOR DEMOLITION SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS AND STATE AND FEDERAL LAWS.
- 4 CONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE/ EQUIPMENT DURING CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO RADIO/TELECOMMUNICATION EQUIPMENT AND GENERATOR. ANY MATERIALS OR EXISTING INFRASTRUCTURE DAMAGED ARE TO BE RESTORED/ REPAIRED AS NECESSARY.

EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1"=30'



NO	REVISIONS	APPD	DATE
1	REVISED PER TOWN COMMENTS	B.PAR	11-22

PROJECT NO: 20410B	DESIGNED: B.PARTIT	PROJECT NO: 20410B	DESIGNED: B.PARTIT
CAD COORD: S.COCHRAN	CAD COORD: S.COCHRAN	CAD COORD: S.COCHRAN	CAD COORD: S.COCHRAN
CAD: S.COCHRAN	CAD: S.COCHRAN	CAD: S.COCHRAN	CAD: S.COCHRAN
CHECKED: P.QUEEN	CHECKED: P.QUEEN	CHECKED: P.QUEEN	CHECKED: P.QUEEN
DATE: 10-22	DATE: 10-22	DATE: 10-22	DATE: 10-22
APPROVED: B.PARTIT	APPROVED: B.PARTIT	APPROVED: B.PARTIT	APPROVED: B.PARTIT
DATE: 11-22	DATE: 11-22	DATE: 11-22	DATE: 11-22
SUBMISSION: CONTRACT DRAWINGS	SUBMISSION: CONTRACT DRAWINGS	SUBMISSION: CONTRACT DRAWINGS	SUBMISSION: CONTRACT DRAWINGS


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<p>TOWN OF MONTVILLE, CONNECTICUT COOK HILL TANK REPLACEMENT PROJECT MONTVILLE WATER SUPPLY</p>	<p>EXISTING SITE CONDITIONS AND DEMOLITION PLAN</p>
DRAWING	C-2

LAST SAVED BY: SHANE COCHRAN 10/31/2022 12:25 PM

A:\PROJECT\MONTVILLE\30410-COOKHILLTANKS\DRAWINGS\30410-CS-SITELAYOUT.DWG | SHEET: 1 | 11/17/2022 10:57:42 AM | SHANE COCHRAN

REVISIONS	
NO	REVISED PER TOWN COMMENTS

PROJECT NO: 20410B	DESIGNED: B. PARTIT	CAD COORD: S. COCHRAN	CHECKED: P. QUERN	DATE: 10-22	APPROVED: B. PARTIT	DATE: 11-22	SUBMISSION: CONTRACT DRAWINGS
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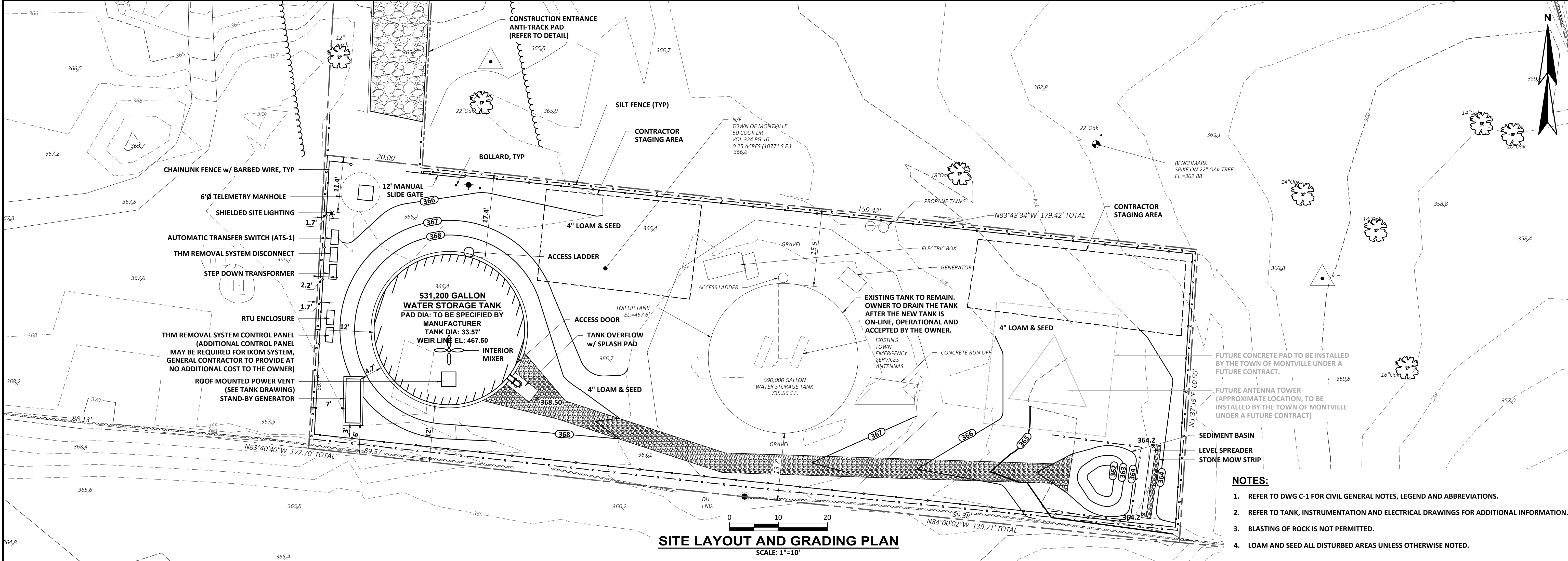
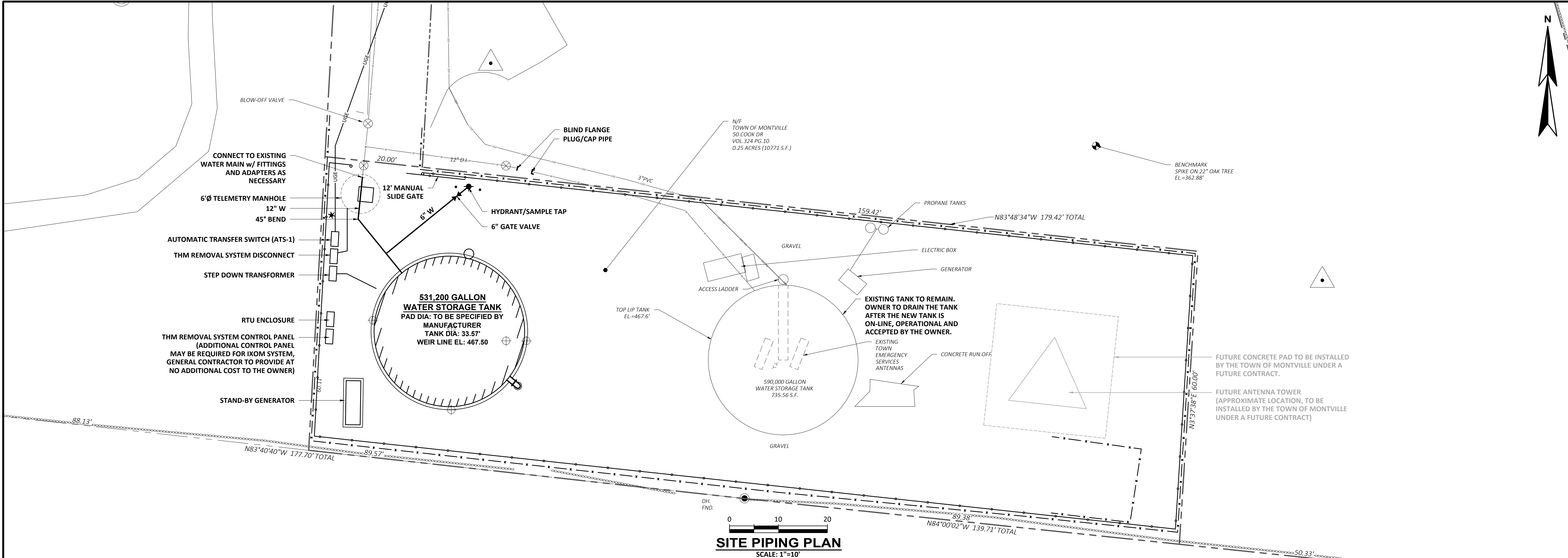
10/31/2022

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**TOWN OF MONTVILLE, CONNECTICUT
 COOK HILL TANK
 REPLACEMENT PROJECT
 MONTVILLE WATER SUPPLY**

SITE PIPING, LAYOUT AND GRADING PLANS

DRAWING
C-3



- NOTES:**
1. REFER TO DWG C-1 FOR CIVIL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
 2. REFER TO TANK, INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 3. BLASTING OF ROCK IS NOT PERMITTED.
 4. LOAM AND SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.

EROSION AND SEDIMENTATION CONTROL NOTES:

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES REQUIRED ARE SHOWN ON THE EROSION CONTROL NOTES AND DETAILS PLAN, REFER TO DRAWING C-4. PROVIDE SILT FENCE, STONE CHECK DAMS, AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO ADEQUATELY PREVENT SEDIMENT TRANSPORT AS NOTED IN THE BMP.

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR NON-VEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE 5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED, AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSE. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH PERMANENT EROSION CONTROL MEASURES.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT TO BE COMPLETED 30 DAYS PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING, UNTIL UPGRADIENT AREAS ARE STABILIZED.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH-GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED AS FOLLOWS:
 - A MINIMUM OF FOUR INCHES (4") OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT DEEMED FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 4 TONS PER ACRE (180 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL. AT A RATE OF 3 TONS PER ACRE (135 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM AND SILT LOAM. AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) FOR LOAMY SAND, AND SAND.
 - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS. SEEDING RATE IS 3.0 POUNDS PER 1,000 SQUARE FEET. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
 - HAY MULCH AT THE RATE OF 2 TONS PER ACRE OR 90-95 POUNDS PER 1,000 SQUARE FEET OR A HYDRO-APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA IS STABILIZED.
- WETLANDS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.
- FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STORMS.

EROSION CONTROL DURING WINTER CONSTRUCTION:

- WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT WHICH CAN BE MULCHED IN ONE DAY PRIOR TO ANY PRECIPITATION EVENT.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 POUNDS PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED, AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1 AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED, AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE 200%-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS PERMIT, ALL DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- BETWEEN THE DATES OF NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE EITHER WOOD CELLULOSE FIBER OR BE ANCHORED WITH MULCH NETTING OR CHEMICAL TACK.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3%, FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- AFTER NOVEMBER 1, THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- DURING WINTER CONSTRUCTION PERIODS, ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

MULCH ANCHORING:

ANCHOR MULCH WITH: MULCH NETTING (AS PER MANUFACTURER); ASPHALT EMULSION (0.05 GALLONS PER SQUARE YARD); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); OR BE WOOD CELLULOSE FIBER (2,000 POUNDS PER ACRE). WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

MULCH AND MULCH ANCHORING

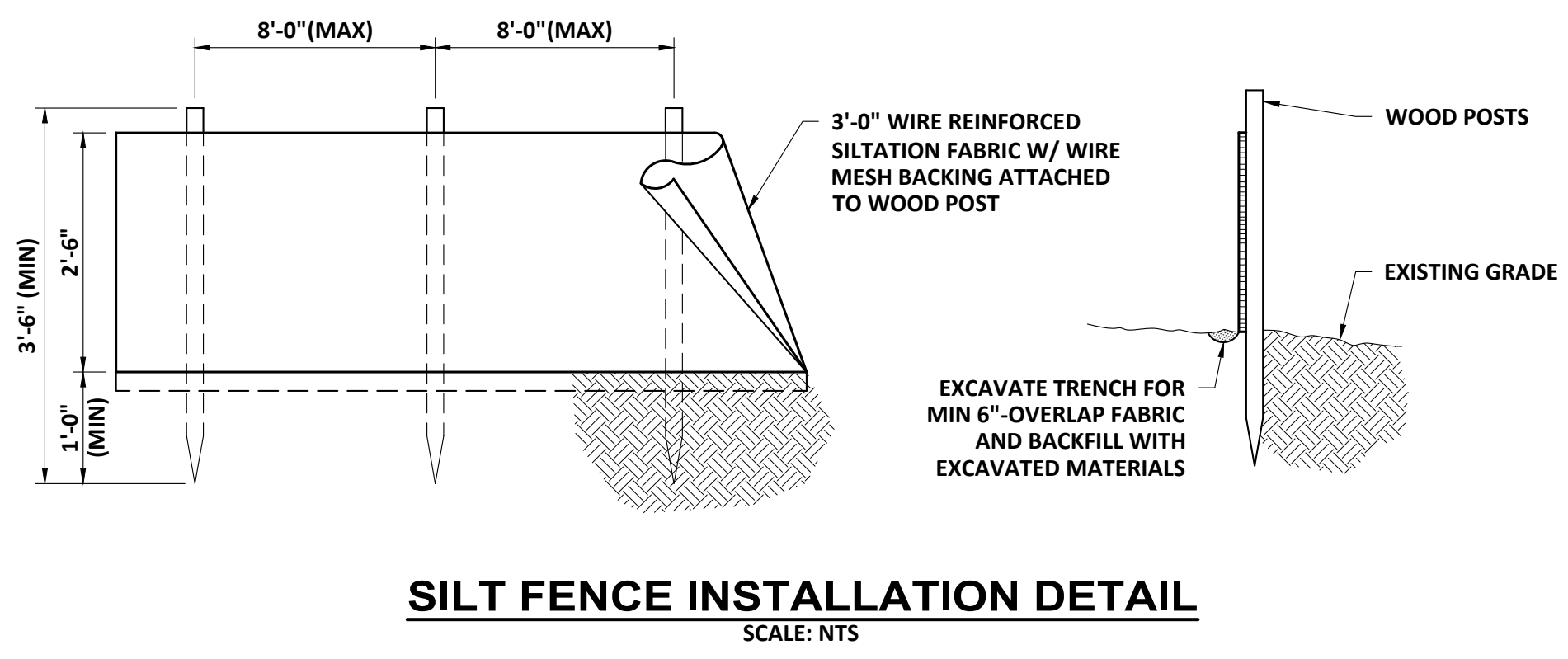
LOCATION	MULCH	RATE (1000 S.F.)
PROTECTED AREA	STRAW OR HAY *	100 POUNDS
WINDY AREAS	STRAW OR HAY (ANCHORED) *	100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES (GREATER THAN 3:1)	JUTE MESH, EXCELSIOR MAT, OR EQUIV.	AS REQUIRED

* A HYDRO-APPLICATION OF CELLULOSE FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

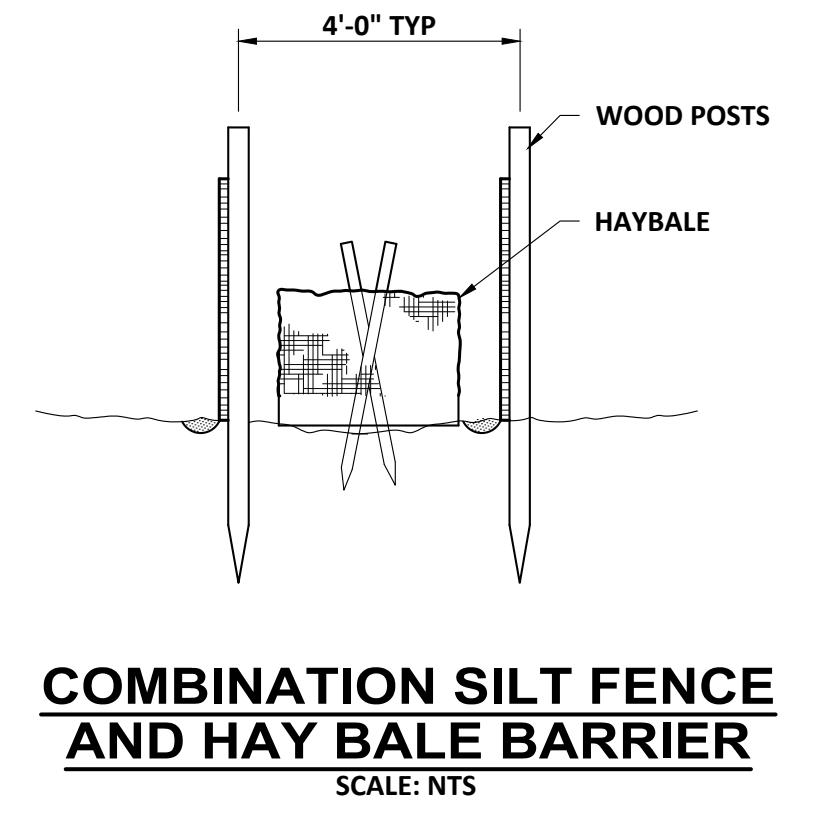
ADDITIONAL TEMPORARY SEED MIXTURE (OR PERIODS LESS THAN 12 MONTHS)

DATES	SEED	RATE
3/1 - 6/15	OATS	86 LBS/ACRE
8/15 - 9/15		
3/1 - 6/15	ANNUAL RYE GRASS	40 LBS/ACRE
8/1 - 10/15		
4/15 - 7/1	WINTER RYE	120 LBS/ACRE
(8/15 - 10/15)		
5/15 - 7/15	MILLET	20 LBS/ACRE

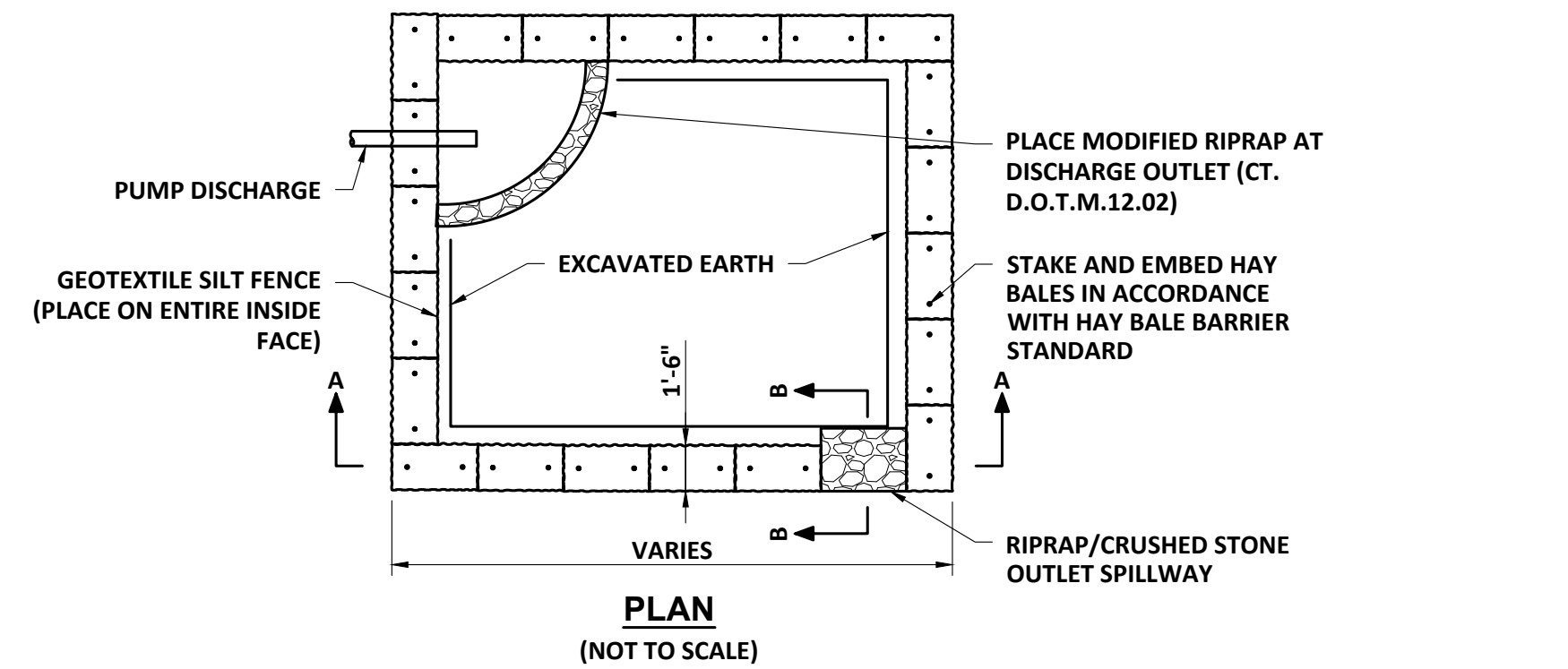
* SEED RATE ONLY



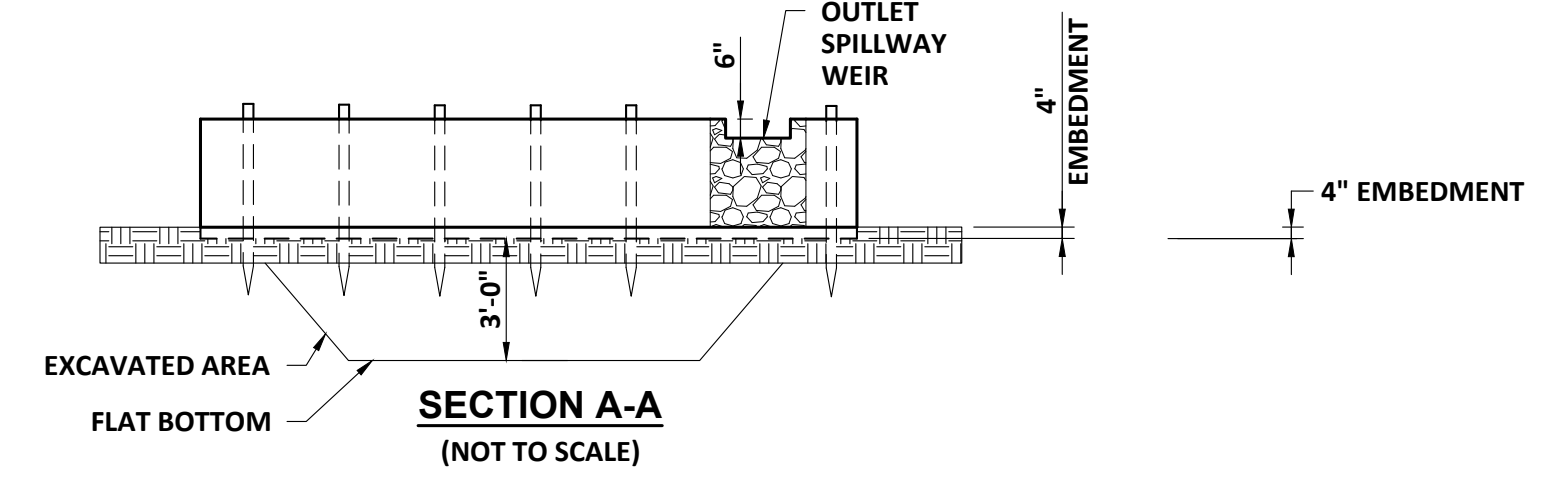
SILT FENCE INSTALLATION DETAIL
SCALE: NTS



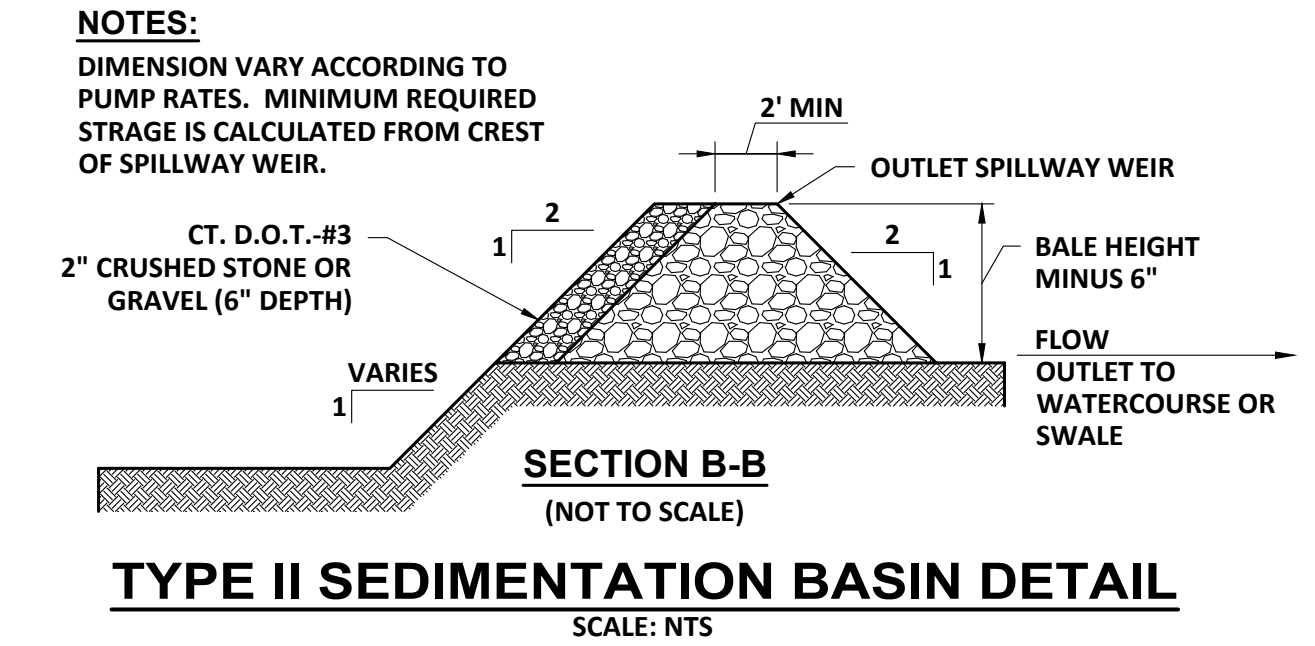
COMBINATION SILT FENCE AND HAY BALE BARRIER
SCALE: NTS



PLAN
(NOT TO SCALE)

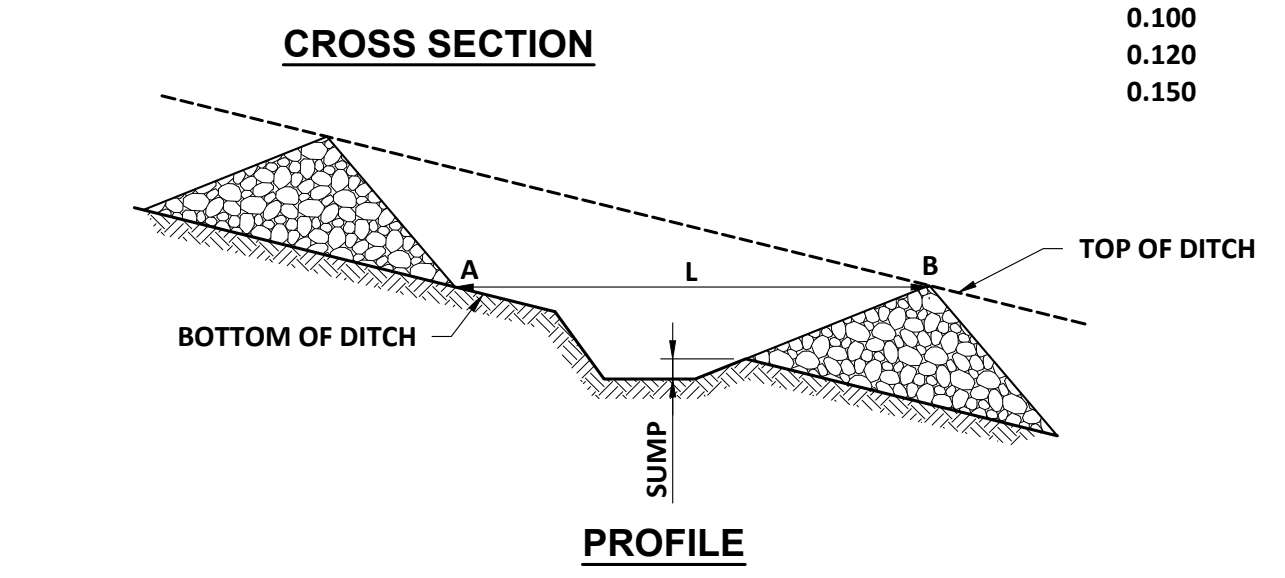


SECTION A-A
(NOT TO SCALE)

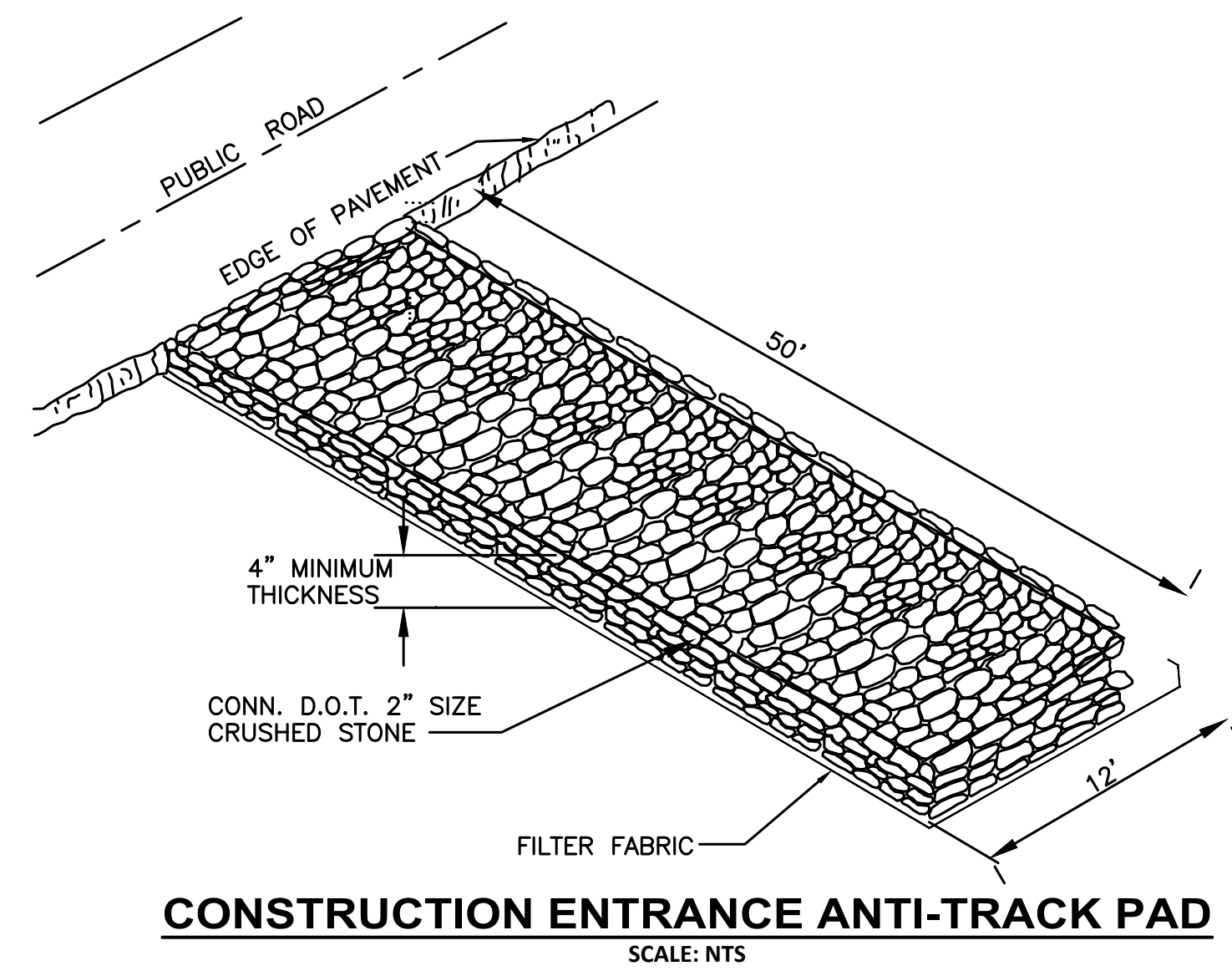


TYPE II SEDIMENTATION BASIN DETAIL
SCALE: NTS

DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13



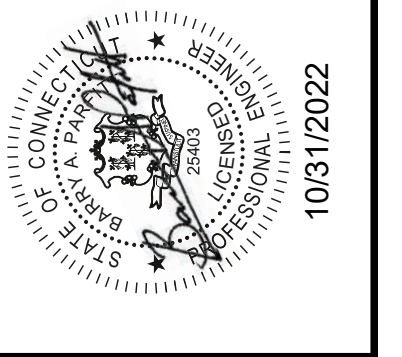
STONE CHECK DAM DETAIL
SCALE: NTS



CONSTRUCTION ENTRANCE ANTI-TRACK PAD
SCALE: NTS

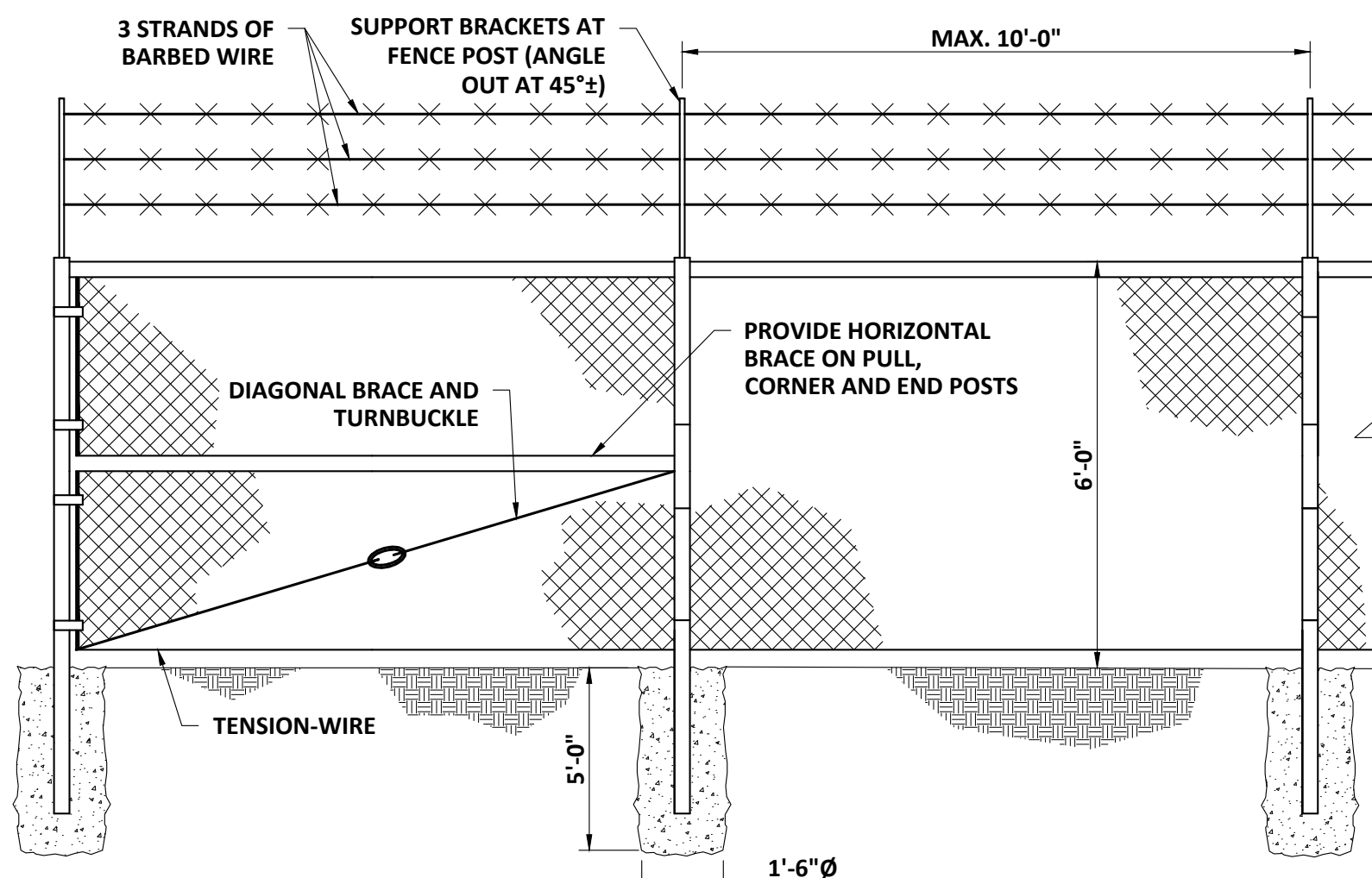
NO	REVISIONS	APP'D	DATE
1	REVISED PER TOWN COMMENTS	B.PAR	11-22

PROJECT NO: 20410B	DESIGNED: B.PARTIT	CAD COORD: S.COCHRAN	CHECKED: P.QUEEN	APPROVED: B.PARTIT	DATE: 11-22	SUBMISSION: CONTRACT DRAWINGS
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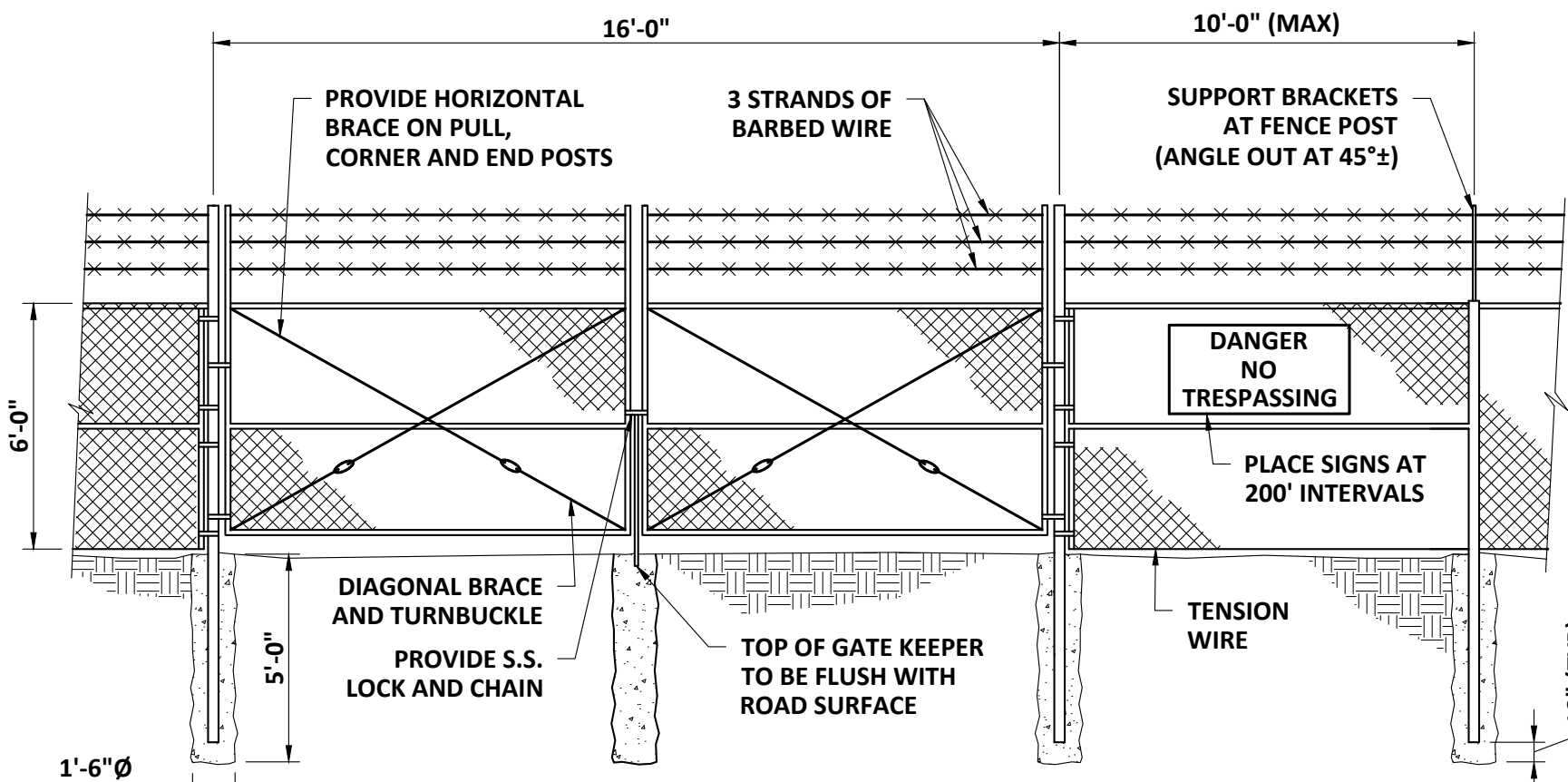
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169 MAIN STREET, 700 PLAZA MIDDLESEX, MIDDLETOWN, CT 06457

TOWN OF MONTVILLE, CONNECTICUT
COOK HILL TANK
REPLACEMENT PROJECT
MONTVILLE WATER SUPPLY
EROSION CONTROL NOTES AND DETAILS



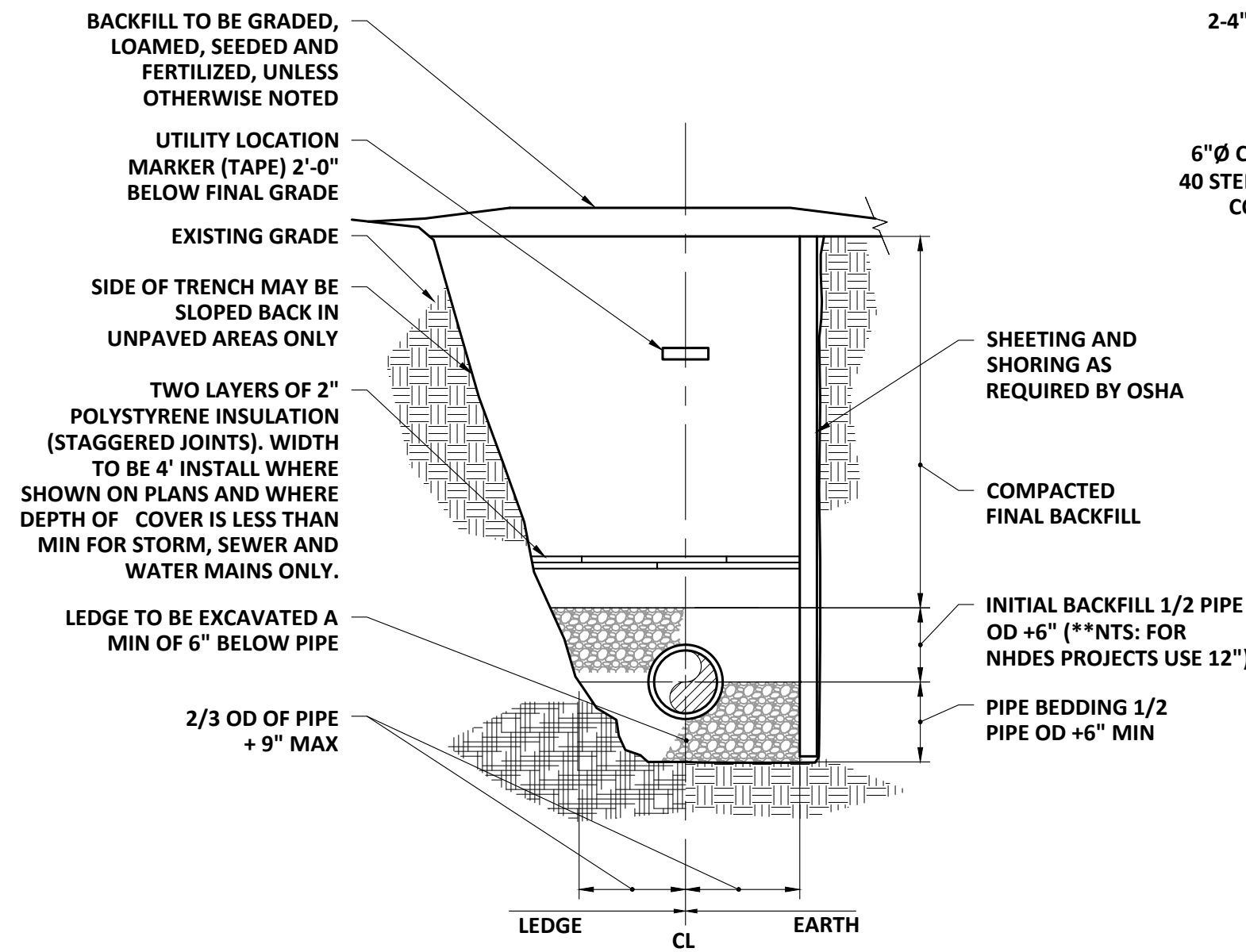
NOTES:
1. SECURE POSTS IN CONCRETE AS SHOWN AT PULL, CORNER AND END POSTS (INCLUDING GATE POSTS)
2. IF CHAINLINK FENCE IS INSTALLED IN UNFRACTURED LEDGE, POST SHALL PENETRATE 2'-0" INTO THE LEDGE AND SHALL BE GROUTED INTO 6" Ø HOLE.

CHAINLINK FENCE WITH BARBED WIRE
SCALE: "NTS"



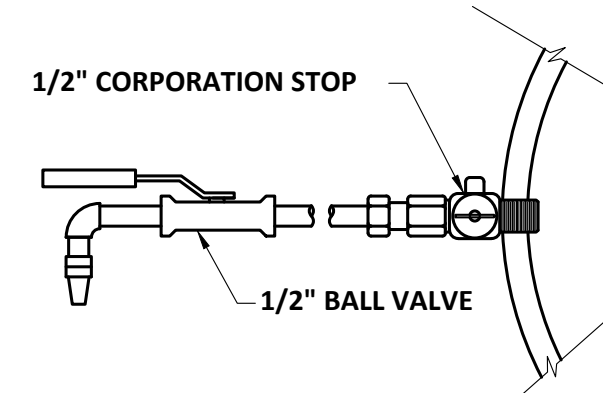
NOTES:
1. SECURE POSTS IN CONCRETE AS SHOWN AT PULL, CORNER AND END POSTS (INCLUDING GATE POSTS)
2. IF CHAINLINK FENCE IS INSTALLED IN UNFRACTURED LEDGE, POST SHALL PENETRATE 2'-0" INTO THE LEDGE AND SHALL BE GROUTED INTO 6" Ø HOLE.

CHAINLINK FENCE AND LOCKING DOUBLE GATE WITH BARBED WIRE
SCALE: "NTS"

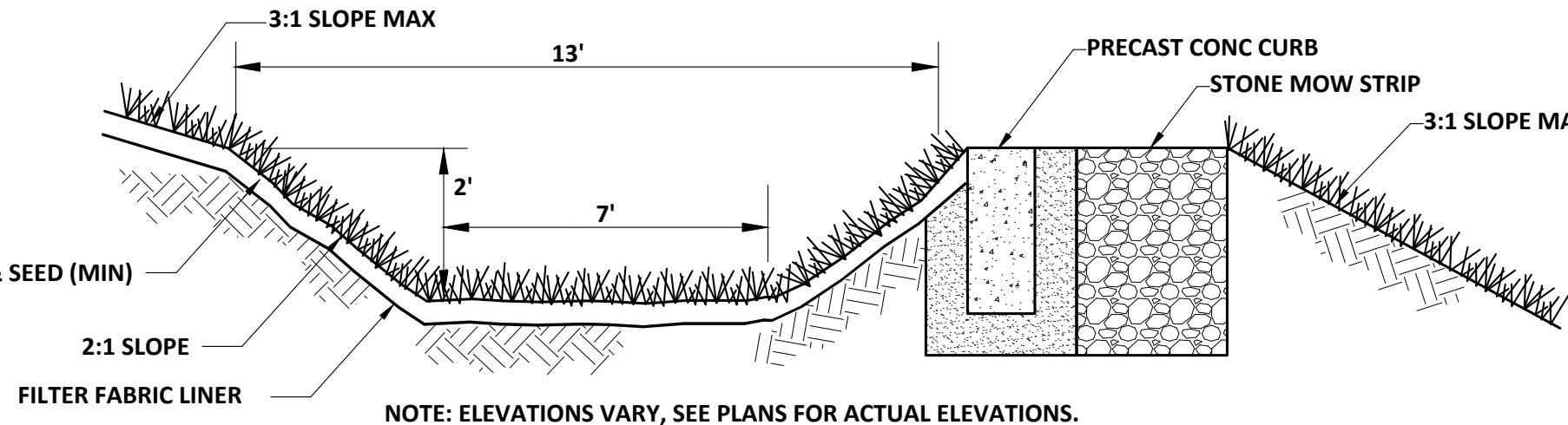


NOTES:
1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' AND WHERE SHOWN ON PLANS TO PREVENT TRENCH GROUNDWATER FROM BEING CHANNELLED ALONG BEDDING/INITIAL BACKFILL.
3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

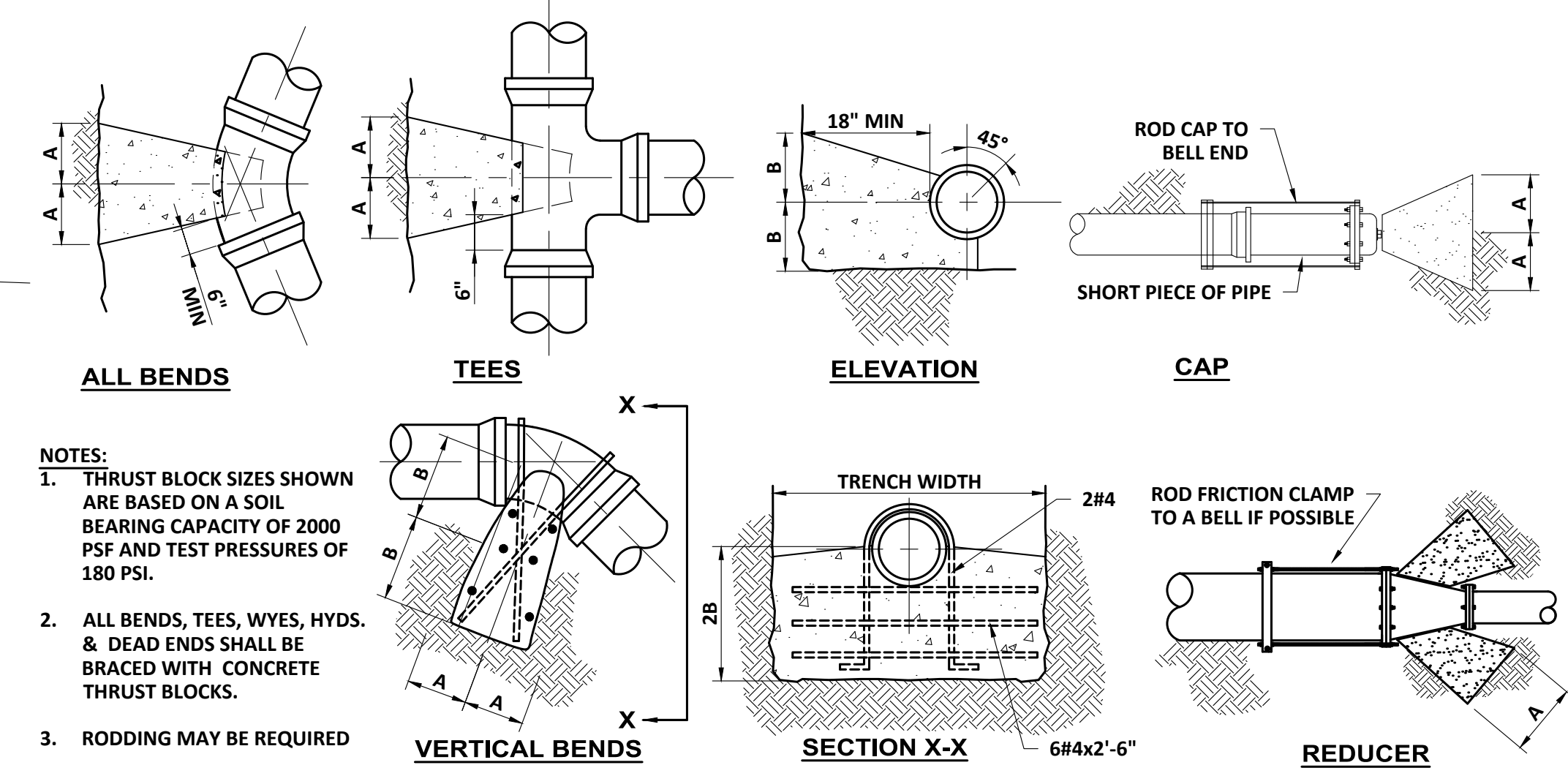
PIPE TRENCH
SCALE: "NTS"



SAMPLE TAP DETAIL
SCALE: NTS



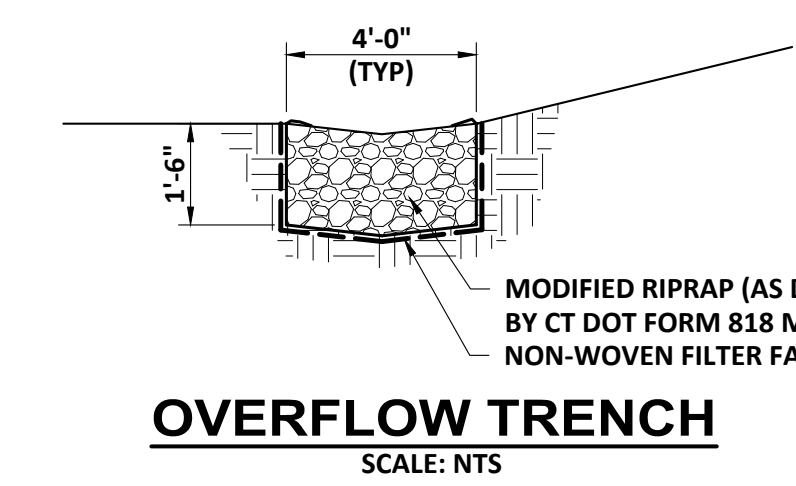
NOTE: ELEVATIONS VARY, SEE PLANS FOR ACTUAL ELEVATIONS.
LEVEL SPREADER OUTLET
SCALE: NTS



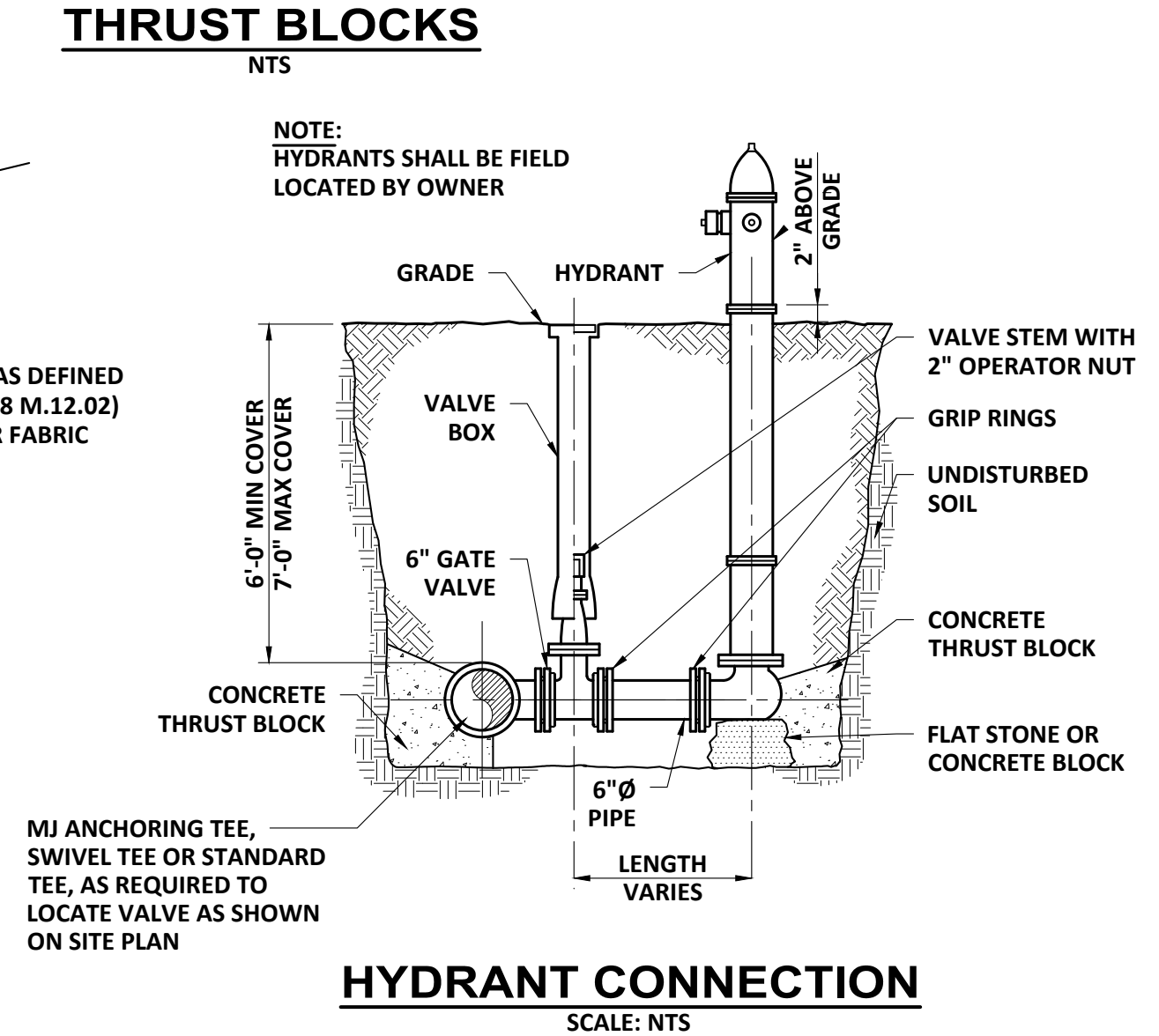
ALL BENDS
TEES
ELEVATION
CAP
VERTICAL BENDS
SECTION X-X
REDUCER

NOTES:
1. THRUST BLOCK SIZES SHOWN ARE BASED ON A SOIL BEARING CAPACITY OF 2000 PSF AND TEST PRESSURES OF 180 PSI.
2. ALL BENDS, TEES, WYES, HYDS. & DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
3. RODDING MAY BE REQUIRED

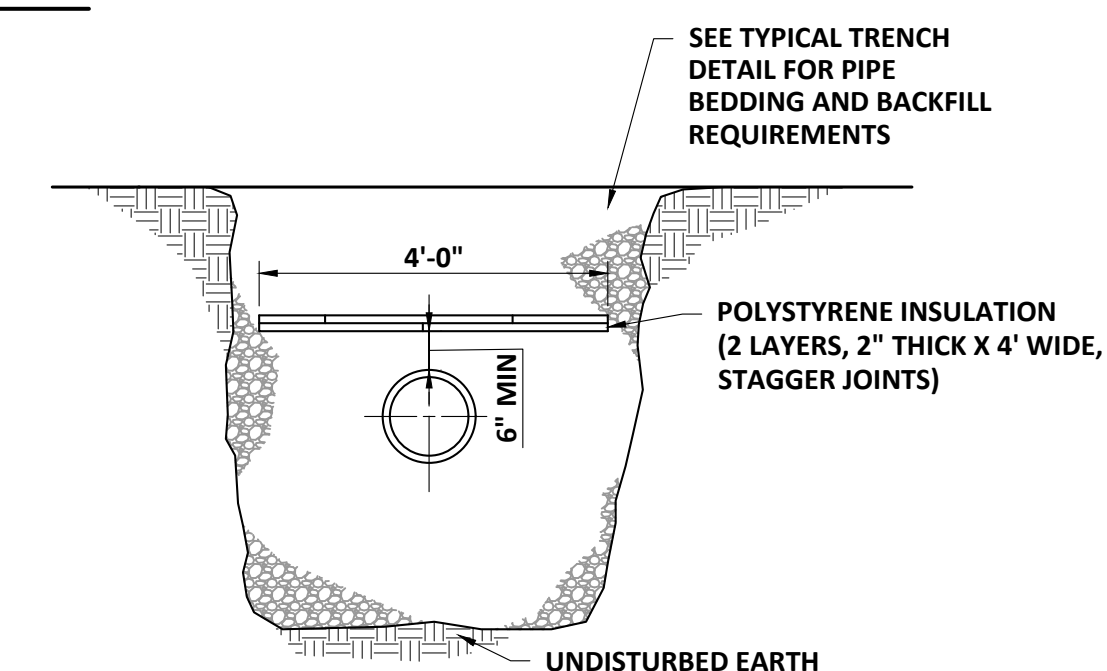
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		VERTICAL BEND (DOWN)		PLUG		REDUCER	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
4"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"	12"	12"	12"	12"
6"	15"	12"	12"	9"	9"	6"	6"	6"	12"	12"	24"	21"	12"	12"	12"	12"
8"	20"	15"	14"	12"	9"	9"	9"	6"	18"	12"	33"	24"	14"	14"	18"	12"
10"	21"	21"	18"	15"	15"	9"	9"	9"	20"	18"	40"	27"	16"	16"	20"	18"
12"	27"	24"	23"	15"	15"	12"	12"	9"	25"	18"	48"	30"	18"	18"	25"	18"
16"	37"	30"	30"	21"	21"	15"	13"	12"	32"	24"	57"	36"	22"	22"	32"	24"



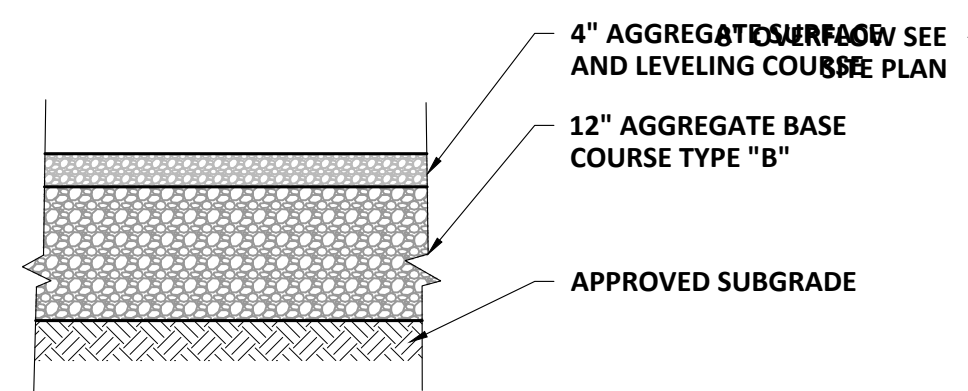
OVERFLOW TRENCH
SCALE: NTS



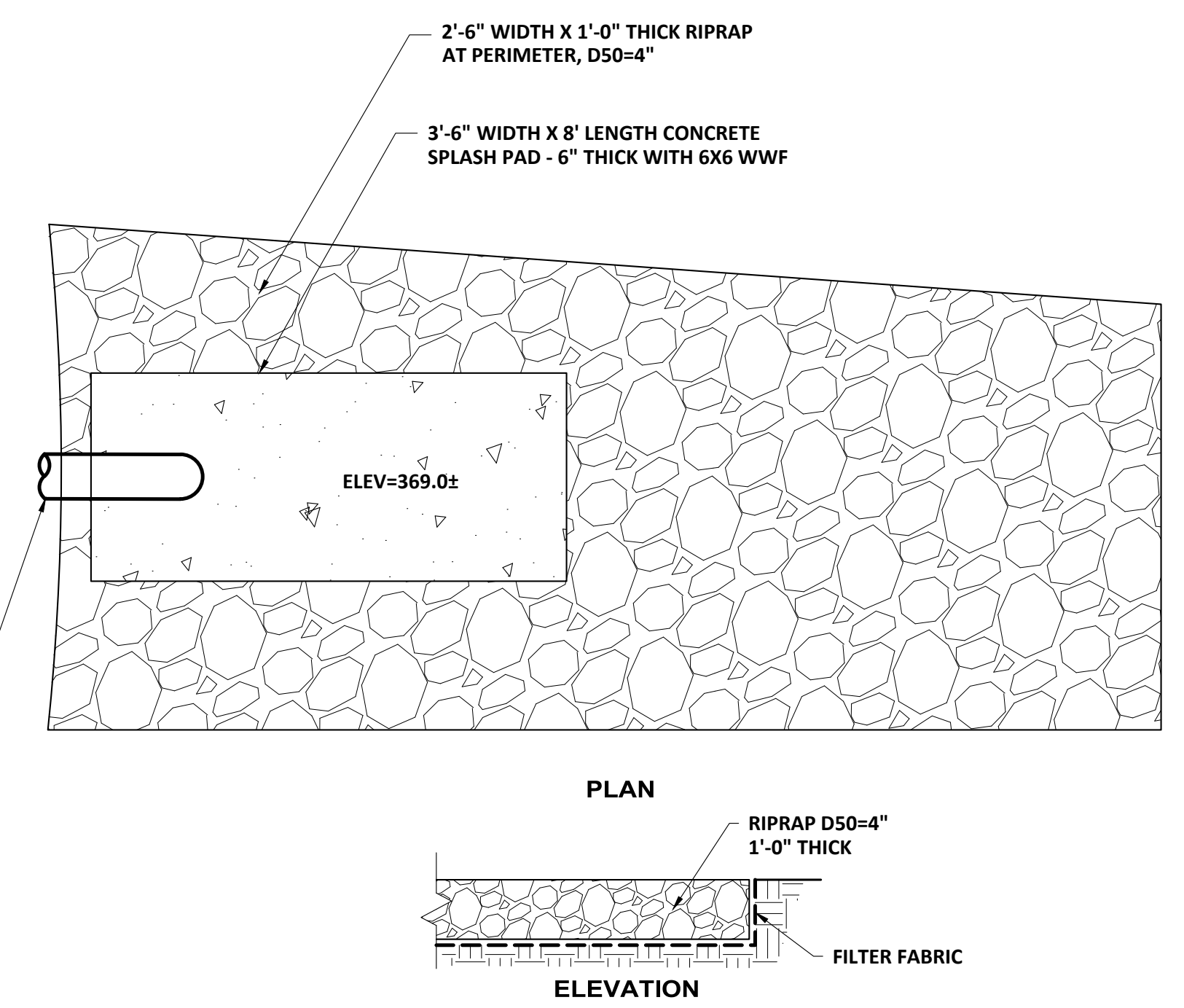
HYDRANT CONNECTION
SCALE: NTS



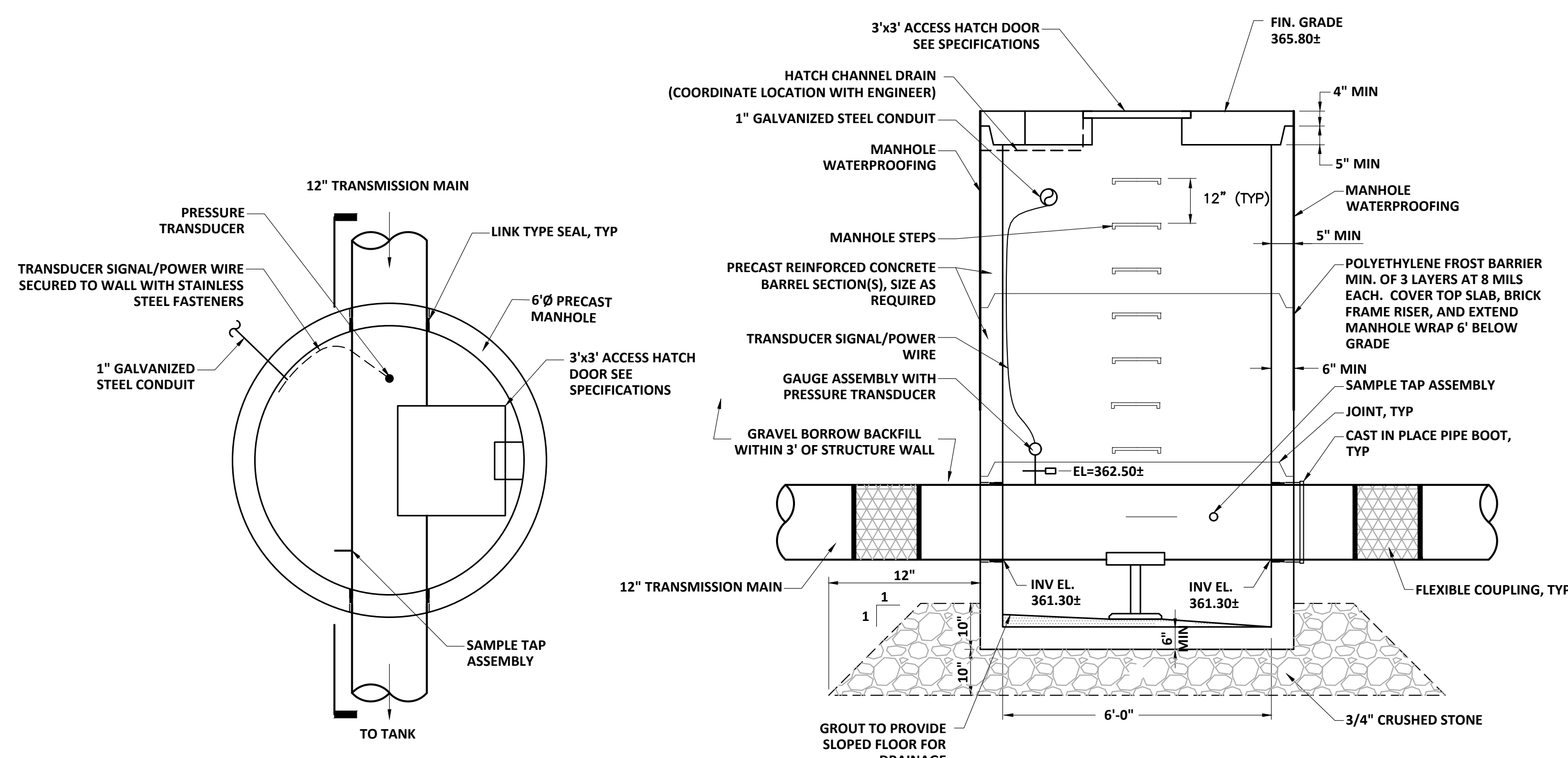
NOTE: TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 4 FEET OR AS DIRECTED BY THE ENGINEER
TRENCH PIPE INSULATION
SCALE: NTS



TYPICAL SECTION OF GRAVEL AREAS
SCALE: "NTS"



CONCRETE SPLASH PAD DETAIL/APRON #2
SCALE: NTS



TELEMETRY MANHOLE
SCALE: NTS

APPD DATE 11-22
B.PAR
REVISIONS
NO
DESIGNED: B.PARTIT
CAD COORD: S.COCHRAN
CAD: S.COCHRAN
CHECKED: P.QUEEN
DATE: 10-22
APPROVED: B.PARTIT
DATE: 11-22
SUBMISSION: CONTRACT DRAWINGS

PROJECT NO: 20410B
10/31/2022

NOTE: HYDRANTS SHALL BE FIELD LOCATED BY OWNER

WRIGHT-PIERCE
860.343.8297 | www.wright-pierce.com
169 MAIN STREET, 700 PLAZA MIDDLESEX, MIDDLETOWN, CT 06457

TOWN OF MONTVILLE, CONNECTICUT
COOK HILL TANK
REPLACEMENT PROJECT
MONTVILLE WATER SUPPLY

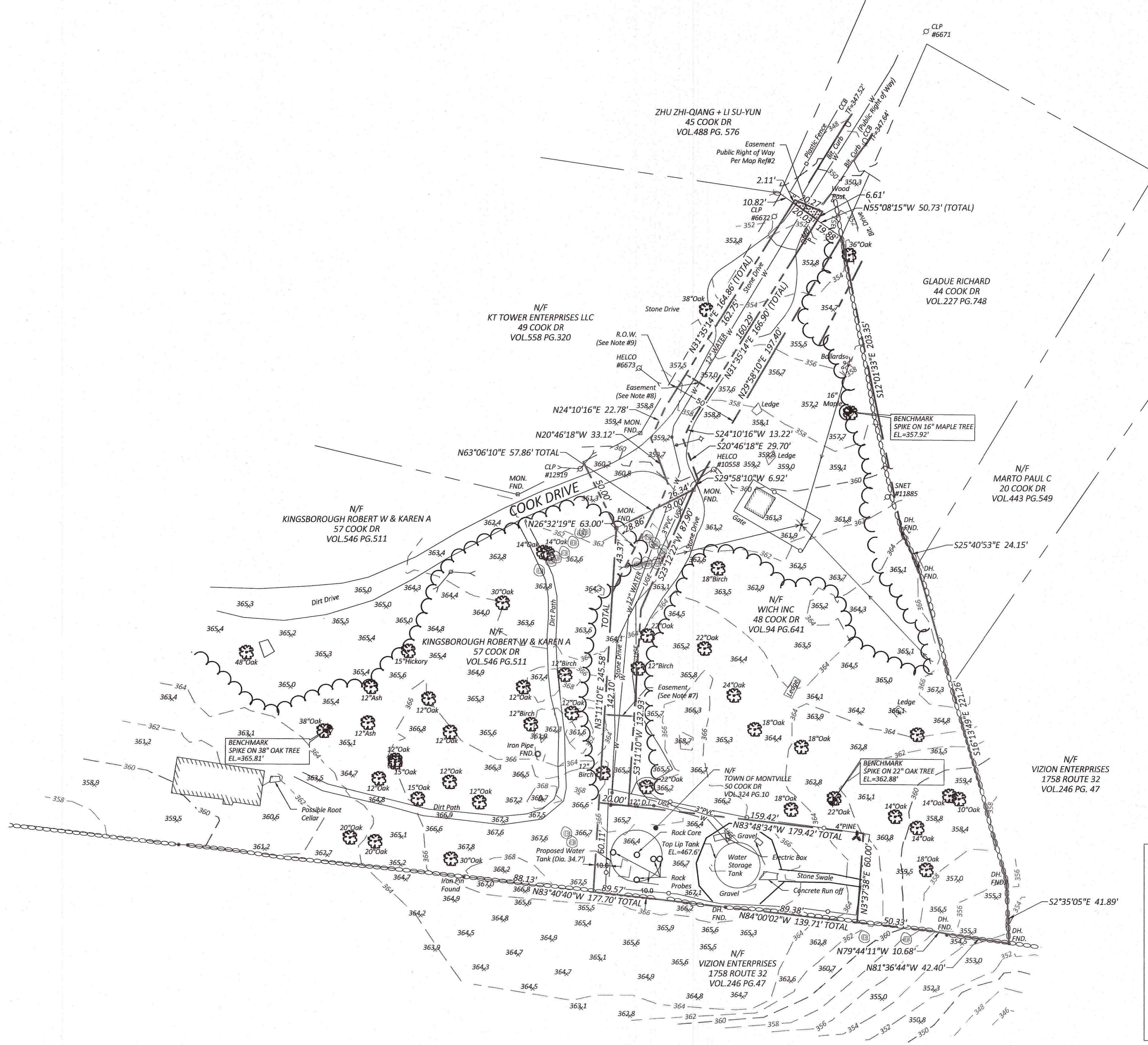
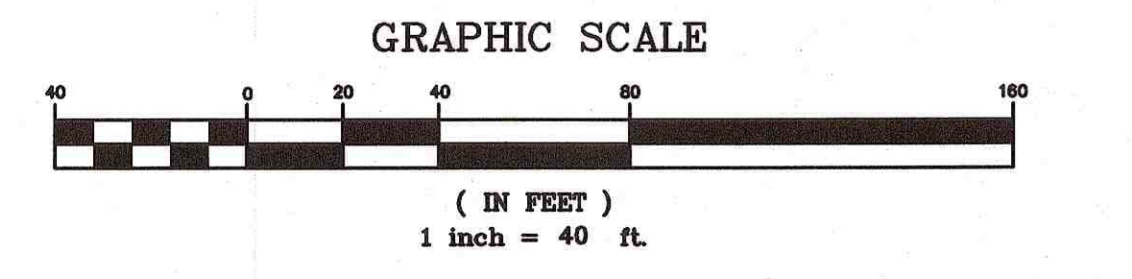
CIVIL DETAILS

DRAWING C-5



- LOCATION MAP
SCALE: 1"=1000'
- 1) NORTH ORIENTATION REFER TO CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83.
 - 2) ELEVATIONS ARE BASED ON NAVD 88 AND OBTAINED UTILIZING RTK GPS OBSERVATIONS MADE ON 10-21-2021.
 - 3) PARCEL OWNER OF RECORD: TOWN OF MONTVILLE
50 COOK DR
MONTVILLE, CONNECTICUT
 - 4) PARCEL ID: MAP 99, BLOCK 09, LOT 01, TOWN OF MONTVILLE ASSESSOR'S MAPPING
 - 5) AREA OF PARCEL IS 10,771.25 SQ.FT., 0.25 ACRES.
 - 6) PARCEL IS NOT IN A FLOOD HAZARD ZONE AS DEPICTED ON THE FLOOD INSURANCE RATE MAP, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS, PANEL 351 OF 554, MAP NUMBER 0901C0351G, MAP REVISED JULY 18, 2011.
 - 7) ACCESS EASEMENT IN FAVOR TO THE TOWN OF MONTVILLE OVER PROPERTY OF WICH INC. PER DEED VOL.324 PG. 10
 - 8) ACCESS EASEMENT IN FAVOR TO THE TOWN OF MONTVILLE OVER LAND OF ROBERT W. AND DEBORAH KINGSBOROUGH. DEPICTED HEREON BASED ON MAP REFERENCE #2.
 - 9) PARCEL SUBJECT TO 50' RIGHT OF WAY FOR ROADWAY USE.
 - 10) NOT ALL IMPROVEMENTS ARE SHOWN.
 - 11) NO WETLANDS FOUND ON SITE PER SOIL SCIENTIST.

- MAP REFERENCES:
- 1) "TOWN OF MONTVILLE, COOK ROAD DRAINAGE AND WATER MAIN IMPROVEMENTS, PLAN AND PROFILE," SCALE: 1"=40', PREPARED BY: CLA ENGINEERS, INC AND DATED: MAY 1999.
 - 2) "TOWN OF MONTVILLE, COOK ROAD WATER MAIN EXTENSION, EASEMENT DESCRIPTION," SCALE: 1"=20', PREPARED BY: CLA ENGINEERS, INC AND DATED: MAY 1999.
 - 3) "THE VILLAGE AT SHANTOK HILL SUBDIVISION, PROPERTY OF VIZION ENTERPRISES, SCALE: 1"=50', PREPARED BY: DICASARE BENTLEY AND DATED: MAY 23, 2014.
 - 4) "PLAN SHOWING PROPERTY OF RICHARD GLADUE, 44 COOK DRIVE, MONTVILLE CONNECTICUT," SCALE: 1"=20', DATED: APRIL 21, 1994.
 - 5) "MOHEGAN HILL SUBDIVISION OF LAND OF DAVID KINGSBOROUGH, ET AL OFF POLLY'S LANE, UNCASVILLE CONNECTICUT," SCALE: 1"=200', PREPARED BY: KING & MULLEN LAND SURVEYORS AND DATED: JANUARY 12, 1988.
 - 6) "TOWN OF MONTVILLE, PLAN SHOWING TRACT 182 OWNED BY PETER & RITA COLEDA TO BE PURCHASED BY RUDOLPH CARON," SCALE: 1"=40', DATED: AUGUST 1962.



SYMBOLS LEGEND

	Utility Pole		Mailbox
	Utility Pole w/ Guy		Property Line
	Guy Anchor		Easement Line
	Deciduous Tree		Contour Line
	Water Gate		Spot Grade
	Fire Hydrant		Chain Link Fence
	Monument		Stone Wall
	Iron Pin		Treeline
	Drill Hole		Underground Water Line
	Boulder		Underground Electric Line

NOTES:
INDICATED UNDERGROUND UTILITIES ARE BASED ON ACTUAL FIELD LOCATIONS AND AVAILABLE NOTES AND MAPPING BY OTHERS. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED ON THE GROUND.

MCA
MARTINEZ COUCH & ASSOCIATES LLC
ENGINEERING • LAND SURVEYING • ENVIRONMENTAL
CONSTRUCTION INSPECTION • GIS • WASTEWATER

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Rocky Hill, CT 06067
Telephone: (860) 436-4364
Fax: (860) 436-4626
www.martinezcouch.com

MONTVILLE WATER TANK
50 COOK DRIVE
MONTVILLE, CONNECTICUT
PREPARED FOR: WRIGHT-PIERCE

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES-"MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUG. 29, 2019. IT IS A TOPOGRAPHIC/BOUNDARY SURVEY AND IS BASED UPON A RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED FOR THE PURPOSE OF SHOWING EXISTING CONDITIONS AND PROPERTY LINE INFORMATION. TO BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

A. RAFAEL MARTINEZ
LICENSED LAND SURVEYOR
DATE: 11/10/21

THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE

A. RAFAEL MARTINEZ LLS

NO.	DATE	REVISIONS	BY	CHK	APPV
△	8-10-2022	REVISION PER CLIENT COMMENTS	JMW	GRR	JPB
△	3-17-2022	ADDITIONAL TOPO AND UTILITIES UPDATE PER MARKUP	JT	GRR	JPB

DRAWN BY: JT
CHECKED BY: JPB
SCALE: 1"=40'
DATE: 11-10-2021

BOUNDARY/TOPOGRAPHIC SURVEY
EXISTING CONDITIONS PLAN

JOB NO.	DRAWING NUMBER	SHEET
2021-267	2021-267 Montville Water Tank.dwg	1 OF 1