

SITE USE PERMIT SET

464 ROOSEVELT TRAIL, WINDHAM, ME 04062
6,949.800 KWDC STC RATED SOLAR ELECTRIC SYSTEM

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GENERAL NOTES

- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.
- WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.
- THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.
- COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.
- UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.
- THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.
- UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.
- ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.
- TO THE EXTENT THAT TRESS AND OTHER FEATURES AFFECT THE SYSTEM'S PRODUCTION, SUCH PRODUCTION MODELING IS BASED ON THE EXISTING APPROXIMATE HEIGHTS AND LOCATIONS RELATIVE TO THE SYSTEM AND MAY BE IMPACTED AS TREES GROW AND OTHER FEATURES CHANGE.

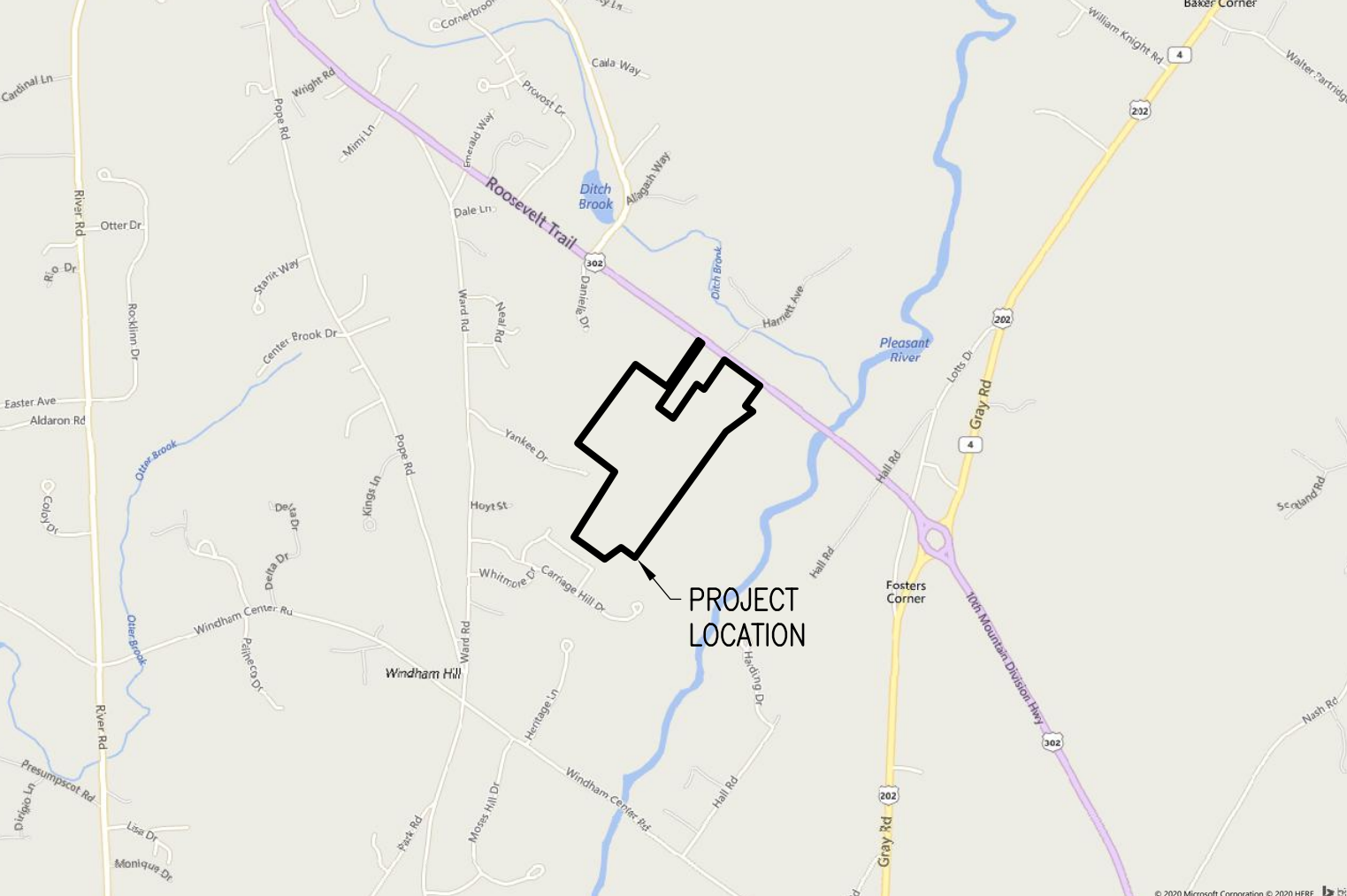
PROJECT SCOPE

THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND CMP REQUIREMENTS.

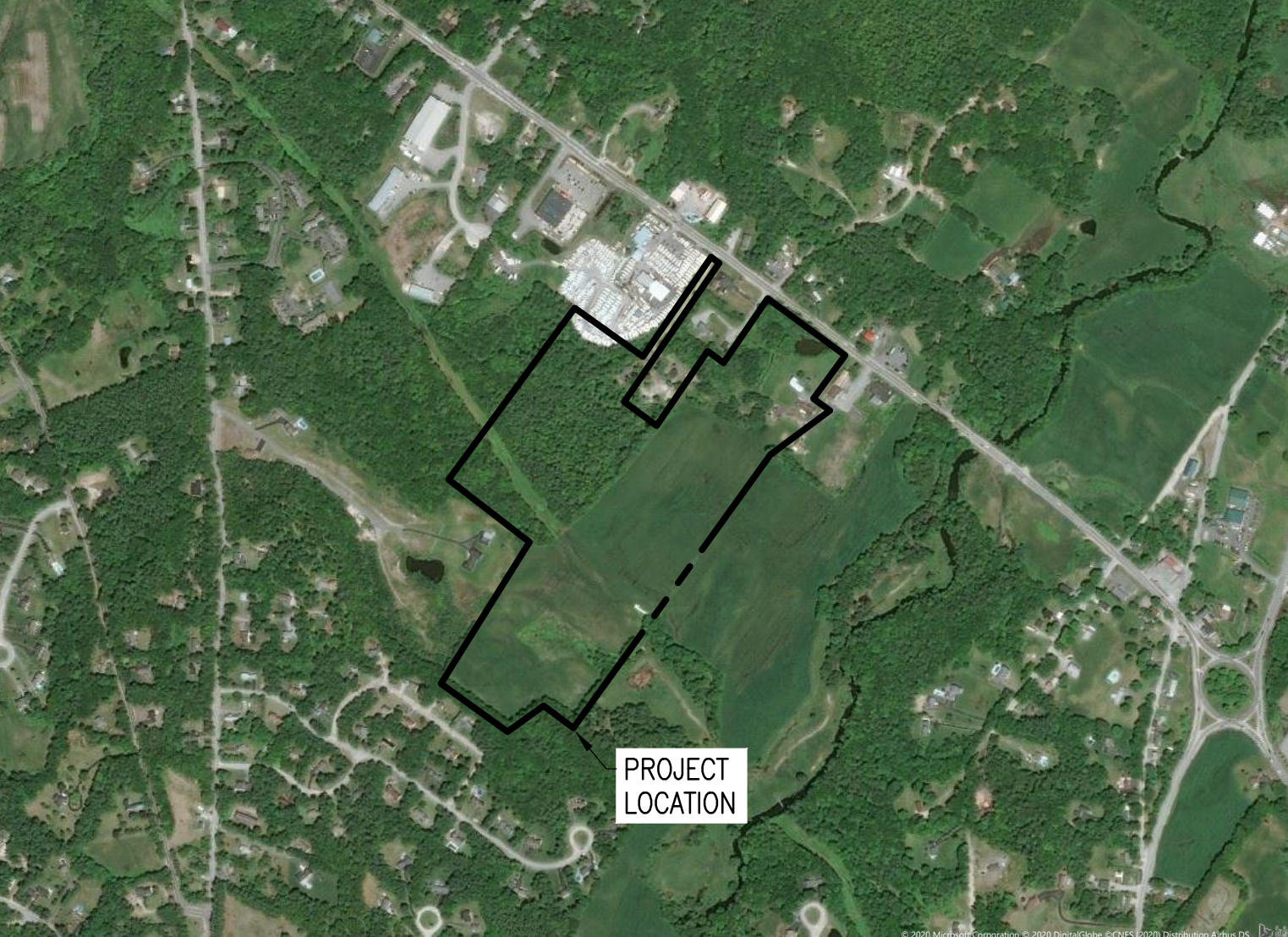
SYSTEM DESCRIPTION

| | | | |
|-----------------------------|------------------------------------|-----------------------|--|
| SYSTEM SIZE (DC STC) | 6,949.8 KWDC | SYSTEM SIZE (AC) | 4,990 KWAC |
| MODULES | (12870) ZNSHINE ZXM7-SHDB144-540/M | INVERTER(S) | POWER ELECTRONICS HEMK (1) FS2125K FACTORY POWER LIMITED TO 1990 KW & (1) FS3190K FACTORY POWER LIMITED TO 3000 KW |
| STC RATING (W) | 540 WDC | AZIMUTH | 180° |
| MODULES PER STRING | 26 | TILT ANGLE | 25° |
| # OF STRINGS | 495 | ESTIMATED FOUNDATIONS | 3006 |
| RACKING MODEL | (716) TERRASMART TGP 2X9 | RACKING QUANTITY | 716 |
| RACKING LEADING EDGE HEIGHT | 36" | | |

LOCATION MAP



AERIAL VIEW



DRAWING LIST

| SHEET NUMBER | SHEET TITLE |
|--------------|----------------------------------|
| T-1 | TITLE PAGE |
| CIVIL | |
| C-1.0 | EXISTING CONDITIONS PLAN |
| C-2.0 | TREE CLEARING PLAN |
| C-3.0 | LAYOUT AND MATERIALS PLAN |
| C-4.0 | GRADING AND EROSION CONTROL PLAN |
| C-5.0 | CIVIL DETAILS |
| C-5.1 | CIVIL DETAILS |

APPLICABLE CODES AND STANDARDS

2020 NATIONAL ELECTRICAL CODE WITH ME AMENDMENTS
2015 INTERNATIONAL BUILDING CODE WITH ME AMENDMENTS
UL-1703 - SOLAR MODULES
UL-1741 - INVERTERS, COMBINER BOXES
UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES

PROJECT DIRECTORY

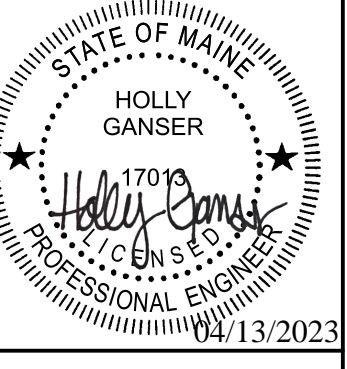
| | |
|---|--|
| SYSTEM / PROJECT OWNER TBD | CIVIL ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: HOLLY GANSER, P.E. PHONE: 978-905-6056 |
| LAND OWNER / HOST WILLIAM AND ANDREA STULTS 464 ROOSEVELT TRAIL WINDHAM, ME 04062 | ELECTRICAL ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: AHARON WRIGHT, P.E. PHONE: 978-221-3081 |
| AUTHORITY HAVING JURISDICTION TOWN OF WINDHAM | DESIGN ENGINEER FIRM: NEW LEAF ENERGY, INC. CONTACT: AARON MILLER PHONE: 978-935-2056 |
| UTILITY CMP | |

GENERAL ABBREVIATIONS

| | | | |
|--------|--|-------|--------------------------------------|
| (E) | EXISTING | NS | NORTH-SOUTH |
| AHJ | AUTHORITY HAVING JURISDICTION | NTS | NOT TO SCALE |
| AL | ALUMINUM | OAE | OR APPROVED EQUAL |
| APPROX | APPROXIMATE | OC | ON CENTER |
| ARY | ARRAY | OD | OUTSIDE DIAMETER |
| BLDG | BUILDING | OF/CI | OWNER FURNISHED CONTRACTOR INSTALLED |
| BSS | BORREGO SOLAR SYSTEM | PV | PHOTOVOLTAIC |
| CL | CENTERLINE | PVC | POLY VINYL CHLORIDE |
| DAS | DATA ACQUISITION SYSTEM | SCH | SCHEDULE |
| DIA | DIAMETER | SS | STAINLESS STEEL |
| DO | DITTO | SSS | SOLAR SUPPORT STRUCTURE |
| EW | EAST-WEST | STC | STANDARD TEST CONDITIONS |
| FBO | FURNISHED BY OTHERS | TBD | TO BE DETERMINED |
| FF | FORWARD FACING | TP | TAMPER PROOF |
| GALV | GALVANIZED | TYP | TYPICAL |
| HDC | HOT DIP GALVANIZED | UON | UNLESS OTHERWISE NOTED |
| HVAC | HEATING VENTILATION AND AIR CONDITIONING | VIF | VERIFY IN FIELD |
| ID | INSIDE DIAMETER | WP | WEATHER PROOF |
| MFR | MANUFACTURER | | |
| MOD | SOLAR MODULE | | |

REV 1.0

NOT FOR CONSTRUCTION



PLAN SET
464 ROOSEVELT TRAIL
WINDHAM, ME 04062

PROJECT NUMBER:
XXX-XXXX

| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|-----|----------|-------|---------|------------------------------|
| | 04/20/20 | LBD | DMA | FINAL SITE PLAN RESUBMISSION |
| | 03/11/23 | LBD | HG | FINAL SITE PLAN EXTENSION |
| | 04/11/23 | NB | HG | SITE PLAN EXTENSION |

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

T-1
TITLE PAGE

GENERAL CIVIL NOTES

APPROVALS

1. WINDHAM MAJOR SITE PLAN APPROVAL DATED MAY 22, 2020.
2. MEDEP STORMWATER PERMIT BY RULE #69769 DATED APRIL 29, 2020.
3. MEDEP NATURAL RESOURCES PROTECTION ACT PERMIT BY RULE #69773 DATE APRIL 29, 2020.

GENERAL NOTES

1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM OWNER. "SUBCONTRACTOR" IS THE EPC PROVIDER'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS THE EPC PROVIDER'S DESIGNATED CIVIL ENGINEER.
2. EXISTING CONDITIONS INFORMATION WAS PREPARED BY HALEY WARD (FORMERLY CES, INC.) ON MARCH 30, 2020. HORIZONTAL DATUM IS REFERENCED TO THE STATE PLANE NAD 83, MAINE WEST ZONE (CORS96) GRID NORTH. VERTICAL DATUM IS REFERENCED TO NAVD 88.
3. THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. A DIG SAFE TICKET NUMBER INDICATING ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED SHALL BE OBTAINED PRIOR TO COMMENCING WORK. CONTACT "DIG SAFE SYSTEM, INC." AT 811 AND PROVIDE 72 HOURS NOTICE TO RECEIVE A TICKET NUMBER.
4. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
5. A PORTLAND PIPELINE CORPORATION REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR PIPELINES.
6. TOWN AND ME DEP APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES.
7. SUBCONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
8. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
9. AREAS USED AS FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.

SITE PREPARATION NOTES

1. AREAS DESIGNATED FOR TREE CLEARING SHALL BE CLEARED ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY, UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
2. TREE CLEARING AND STUMP REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR'S PROJECT MANAGER OR SITE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK ON-SITE.
3. SEASONAL TREE CLEARING RESTRICTIONS MAY BE REQUIRED FOR ENDANGERED SPECIES PROTECTION. THE CONTRACTOR SHALL REFER TO THE TREE CLEARING PLAN FOR ANY RESTRICTIONS.
4. THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SITE CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
5. ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S).
6. THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
7. THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
8. TEMPORARY CONSTRUCTION HAUL ROADS SHALL BE USED DURING CONSTRUCTION IF DEEMED NECESSARY BY THE CONTRACTOR. THE USE OF SEPARATION FABRICS SHALL BE USED TO FACILITATE FUTURE REMOVAL AND RECOVERY OF GRANULAR MATERIALS. HAIL ROADS SHALL BE MAINTAINED DURING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL AND STORMWATER REDUCTION MEASURES. ONCE REMOVED, THE SUB-BASE AREA SHOULD BE DECOMPACTED WITH A YORK RAKE, LOAM REPLACED, AND RESEDED.
9. THE SITE ACCESS ROADS ARE DESIGNED TO MEET STATE FIRE CODE FOR FIRE TRUCK ACCESS. MEANS AND METHODS FOR ACCOMMODATING LARGER CONSTRUCTION DELIVERY VEHICLES MUST BE DETERMINED BY THE CONTRACTOR.
10. THE PROPOSED ROAD DESIGN SHOWN IN THESE PLANS SHALL BE CONSIDERED THE FINAL DESIGN CONDITION. ADDITIONAL MEANS AND METHODS OF CONSTRUCTION DEEMED NECESSARY BY THE OWNER OR CONTRACTOR SHALL BE DESIGNED BY OTHERS AND INCLUDED IN THE INITIAL EPC BID PRICE (INCLUDING, BUT NOT LIMITED TO: TEMPORARY HAUL ROADS, WIDENED OR LENGTHENED ROADS AND TURN OUT AREAS FOR LARGER CONSTRUCTION AND DELIVERY VEHICLES, TEMPORARY PARKING AND LAYDOWN AREAS, MODIFIED GRADING TO SUPPORT CONSTRUCTION AND DELIVERY VEHICLES, ETC.).

EROSION AND SEDIMENT CONTROL MEASURES

1. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (BMPS), PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION.
2. A MAINE CONSTRUCTION GENERAL PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.

4. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF WINDHAM OR THEIR REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION BEGINS.
5. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH OF GRASS HAS BEEN OBTAINED, TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED PER CONTRACTOR/COER DIRECTION. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
6. DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ERODIBLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.
7. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, EROSION CONTROL MIX, SECURED GEOTEXTILE FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
8. DISTURBED AREAS THAT DO NOT RECEIVE FINAL SURFACE TREATMENT AS INDICATED ON THE PLANS SHALL BE SEEDED WITH 2.5 LBS. RED FESCUE AND 0.5 LBS. RYE GRASS PER 1,000 SQUARE FEET AND MULCHED AT A RATE OF 90 LBS. PER 1,000 SQUARE FEET OR APPROVED EQUAL OF SEED AND MULCH.
9. IF FINAL SEEDING OF DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15TH OF THE YEAR OF CONSTRUCTION OR SHOULD CONSTRUCTION TAKE PLACE DURING THE WINTER (NOVEMBER 1ST THROUGH APRIL 15TH) ADDITIONAL STABILIZATION MEASURES SHALL BE INSTALLED BY NOVEMBER 1ST AS OUTLINED IN THE MAINE EROSION AND SEDIMENT CONTROL BMPS, LATEST EDITION.
10. TEMPORARY VEGETATION SHOULD BE APPLIED BY OCTOBER 1ST WITH WINTER RYE AT THE RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCH WITH ANCHORED HAY AT 75 POUNDS PER 1,000 SQUARE FEET OR WITH EROSION CONTROL BLANKETS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES AND HAVE 75% COVERAGE BY NOVEMBER 1ST THE AREA SHOULD BE STABILIZED FOR OVERWINTER PROTECTION.
11. INSTALL SILT FENCES ALONG CONTOUR DIVIDING FLAT AND STEEP SLOPES, AREAS WITH DIFFERENT DISTURBANCE SCHEDULES, AROUND TEMPORARY STOCKPILES OR IN OTHER UNSPECIFIED POSSIBLE CIRCUMSTANCES. THE INTENT OF SUCH INTERIOR SILT FENCES IS TO LIMIT SEDIMENT TRANSPORT WITHIN THE SITE TOWARD THE PROTECTED CATCH BASIN INLETS TO MINIMIZE SEDIMENT REMOVAL AND EXTEND LIFE OF SUCH DEVICES.
12. SILT FENCE SHALL BE INSPECTED, REPLACED AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION. AT A MINIMUM, ALL EROSION CONTROL DEVICES SHALL BE OBSERVED WEEKLY.
13. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
14. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
15. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
16. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
17. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR.
18. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASHDOWN FACILITIES SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
19. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM SITE.
20. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DUST FROM FORMING.
21. THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES TWICE EVERY SEVEN (7) CALENDAR DAYS (IF GREATER THAN 5 ACRES IS TO BE DISTURBED AT ANY ONE TIME) OR ONCE EVERY SEVEN (7) CALENDAR DAYS AND BEFORE AND AFTER STORM EVENTS. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
22. DAMAGED OR DETERIORATED EROSION AND SEDIMENT CONTROL ITEMS SHALL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/COER.
23. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE.
24. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
25. MINIMUM EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND THE CONTRACTOR SHALL MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG SHALL BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING PROCEDURES FOUND IN THE "MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS" (PUBLISHED MARCH 2015). THE PUBLICATION CAN BE FOUND AT: [HTTP://WWW.MAINE.GOV/DEP/LAND/EROSION/ESCBMPS/INDEX.HTML](http://www.maine.gov/dep/land/erosion/escbmeps/index.html)

LAYOUT AND MATERIAL NOTES

1. THE CONTRACTOR SHALL HAVE PERIMETER FENCE, ELECTRICAL TRENCHES, AND RACKING STAKED OUT BY A LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF RACKING OR TRENCHES.
2. EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE PLACED ON TOP AND LIGHTLY COMPACTED.

3. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRIC CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.
4. TEMPORARY BENCHMARKS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONFIRM ALL ELEVATIONS AND BENCHMARKS PRIOR TO WORK COMMENCING.

GRADING NOTES
























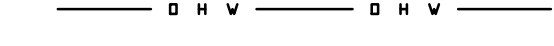
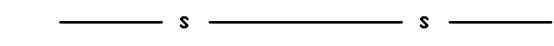
1. WHERE PROPOSED GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, PUBLIC ROADWAYS, AND ELECTRICAL EQUIPMENT AREAS.

ABBREVIATIONS

| | |
|------|--|
| BIT | BITUMINOUS |
| BMP | BEST MANAGEMENT PRACTICE |
| BVW | BORDERING VEGETATED WETLANDS |
| CB | CONCRETE BOUND |
| CONC | CONCRETE |
| CMP | CORRUGATED METAL PIPE |
| CPP | CORRUGATED PLASTIC PIPE |
| DH | DRILL HOLE |
| DIP | DUCTILE IRON PIPE |
| DMH | DRAIN MANHOLE |
| ECB | EROSION CONTROL BARRIER |
| FES | FLARED END SECTION |
| FH | FIRE HYDRANT |
| FND | FOUND |
| GG | GAS GATE |
| HDPE | HIGH-DENSITY POLYETHYLENE |
| HW | HEADWALL |
| ILSF | ISOLATED LANDS SUBJECT TO FLOODING |
| IP | IRON PIPE |
| ISW | ISOLATED WETLANDS (FEDERAL JURISDICTION) |
| LA | LANDSCAPED AREA |
| LOW | LIMIT OF WORK |
| N/F | NOW OR FORMERLY |
| NTS | NOT TO SCALE |
| OCS | OUTLET CONTROL STRUCTURE |
| OHW | OVERHEAD WIRE |
| RCP | REINFORCED CONCRETE PIPE |
| RET | RETAINING |
| ROW | RIGHT-OF-WAY |
| SB | STONE BOUND |
| TEL | TELEPHONE CABLE |
| TYP | TYPICAL |
| UP | UTILITY POLE |
| WG | WATER GATE |

REV 1.1

LEGEND

| | |
|---|---------------------------------|
|  | SOLAR MODULES |
|  | ROAD (GRAVEL) |
|  | FENCE LINE |
|  | PROPERTY LINE |
|  | FLOW DIRECTION |
|  | BANK LINE/FLAG |
|  | WETLAND LINE/FLAG |
|  | (E) MAJOR CONTOUR |
|  | (E) MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | 100' WETLAND BUFFER ZONE |
|  | 200' RIVERFRONT AREA |
|  | 100-YEAR FLOOD LINE |
|  | WATER RESOURCE OVERLAY DISTRICT |
|  | TREELINE |
|  | STONE WALL |
|  | SILT FENCE |
|  | SILT SOCK |
|  | DRAIN PIPE |
|  | ELECTRICAL TRENCH |
|  | OVERHEAD ELECTRIC |
|  | SEWER LINE |
|  | WATER LINE |
|  | GAS MAIN |

2.3-2.3A

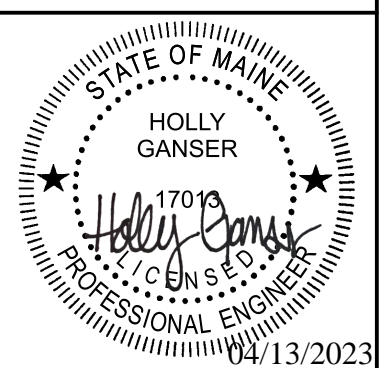
ASSESSORS MAP-LOT

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WINDHAM, ME 04062

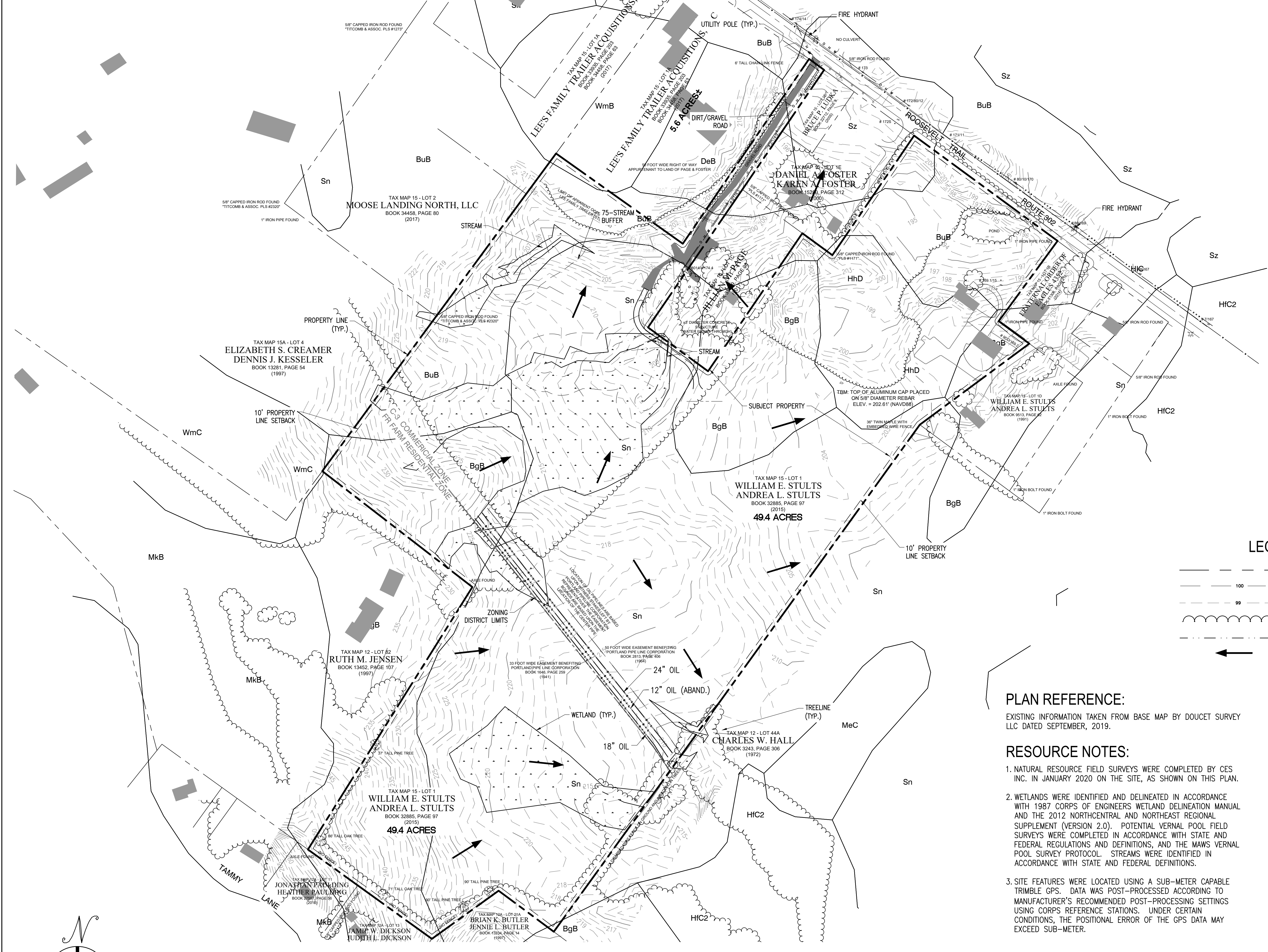
PROJECT NUMBER:
XXX-XXXX

| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|-----|----------|-------|---------|------------------------------|
| | 04/20/20 | LBD | DMA | FINAL SITE PLAN RESUBMISSION |
| | 03/11/23 | LBD | HG | SITE PLAN EXTENSION |
| | 04/11/23 | NB | HG | SITE PLAN EXTENSION |

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-0.0

CIVIL NOTES



APPROVED: TOWN OF WINDHAM
PLANNING BOARD

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new leaf energy

55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851
PHONE: (988) 986-4273
FAX: (988) 843-6778
WWW.NEWEAFENERGY.COM

NOT FOR CONSTRUCTION

STATE OF MAINE
HOLLY GANSER
17015
Professional Engineer
04/13/2023

PLAN SET
720 U.S. ROUTE 1
SCARBOROUGH, ME 04070

PROJECT NUMBER:
105-4748

| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|----------|------|-------|------------|-------------------|
| 04/20/20 | LD | DMA | FINAL SITE | PLAN RESUBMISSION |
| 03/11/23 | LD | HG | SITE PLAN | EXTENSION |
| 04/11/23 | NB | HG | SITE PLAN | EXTENSION |

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

C-1.0
EXISTING CONDITIONS PLAN

EXISTING CONDITIONS PLAN

SCALE: 1" = 120'

LEGEND

- PROPERTY LINE
- 100 --- (E) MAJOR CONTOUR
- 99 --- (E) MINOR CONTOUR
- TREELINE
- WETLAND
- FLOW DIRECTION

PLAN REFERENCE:

EXISTING INFORMATION TAKEN FROM BASE MAP BY DOUCET SURVEY LLC DATED SEPTEMBER, 2019.

RESOURCE NOTES:

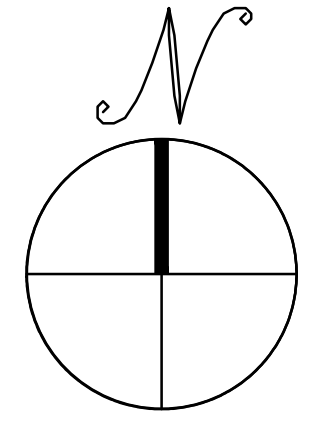
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- WETLANDS WERE IDENTIFIED AND DELINEATED IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE 2012 NORTHCENTRAL AND NORTHEAST REGIONAL SUPPLEMENT (VERSION 2.0). POTENTIAL VERNAL POOL FIELD SURVEYS WERE COMPLETED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS AND DEFINITIONS, AND THE MAWS VERNAL POOL SURVEY PROTOCOL. STREAMS WERE IDENTIFIED IN ACCORDANCE WITH STATE AND FEDERAL DEFINITIONS.
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OWNER: WILLIAM AND ANDREA STULTS
454 ROOSEVELT TRAIL
WINDHAM, ME 04062

APPLICANT: ROOSEVELT TRAIL SOLAR 1, LLC
NEW LEAF ENERGY, INC.
ATTN: HOLLY GANSER
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851

ENGINEER: NEW LEAF ENERGY, INC.
ATTN: HOLLY GANSER
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851

SETBACKS:
FRONT - 15'
SIDE - 10'
REAR - 10'



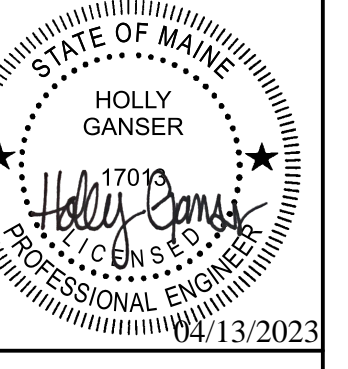
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PHONE: (988) 988-4273
FAX: (988) 843-6778
WWW.NEWLEAFENERGY.COM

APPROVED: TOWN OF WINDHAM
PLANNING BOARD

NOT FOR
CONSTRUCTION



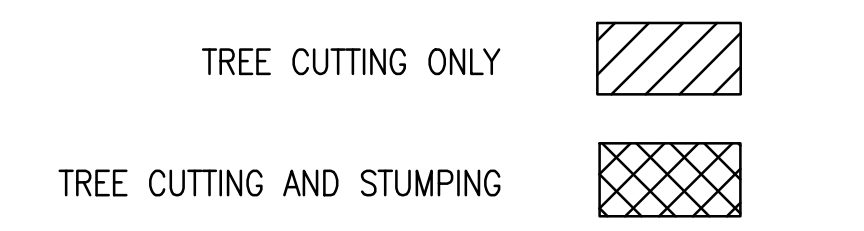
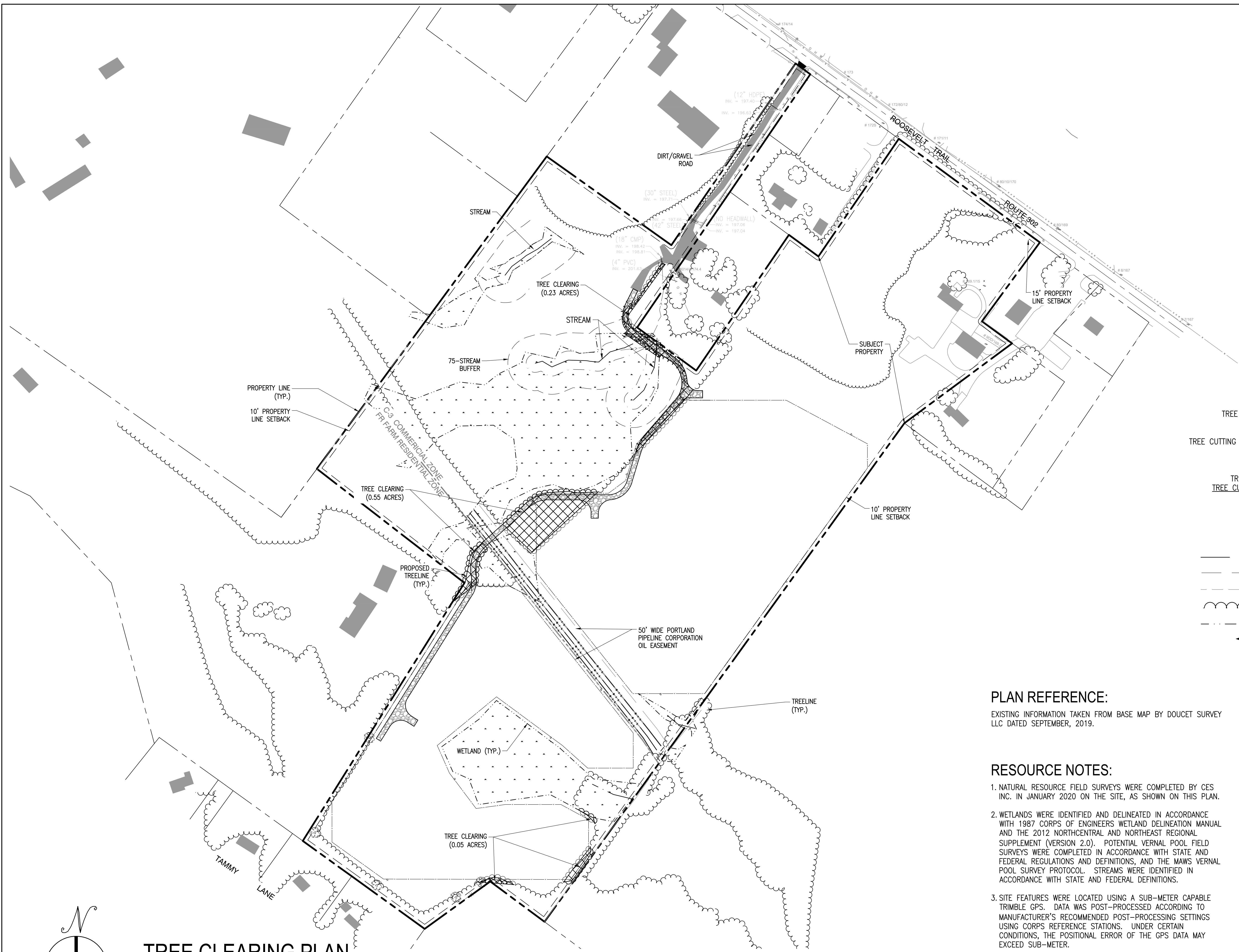
PLAN SET
464 ROOSEVELT TRAIL
WINDHAM, ME 04062

PROJECT NUMBER:
XXX-XXXX

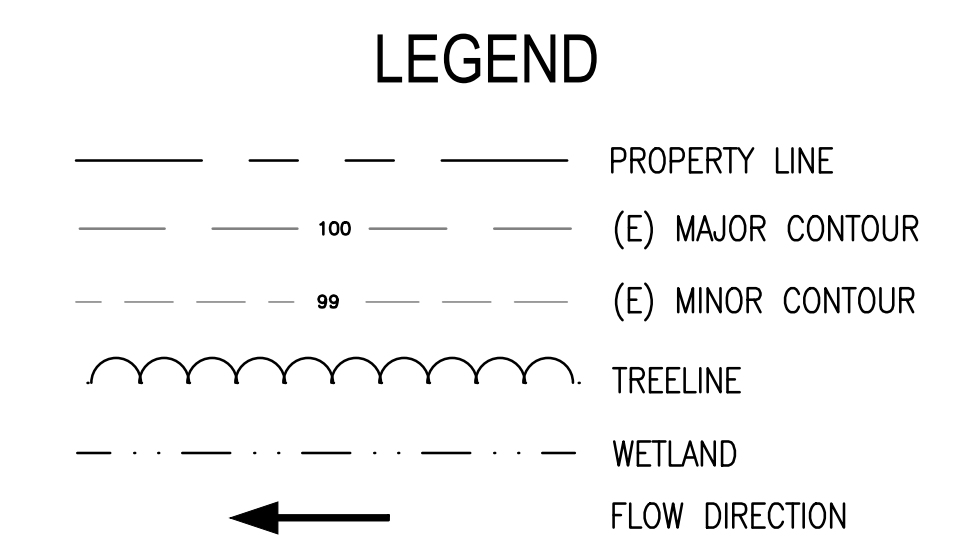
| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|-----|----------|-------|---------|------------------------------|
| | 04/20/20 | LD | DNA | FINAL SITE PLAN RESUBMISSION |
| | 03/11/23 | LD | HG | SITE PLAN EXTENSION |
| | 09/27/23 | DNA | DNA | SUBMITTAL EDIT/REVISION |

SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTED
ARCH D 24" X 36"

C-2.0
TREE CLEARING PLAN



TREE CUTTING ONLY = 0.0 ACRES
TREE CUTTING AND STUMPING = 0.83 ACRES
TOTAL = 0.83 ACRES



PLAN REFERENCE:

EXISTING INFORMATION TAKEN FROM BASE MAP BY DOUCET SURVEY LLC DATED SEPTEMBER, 2019.

RESOURCE NOTES:

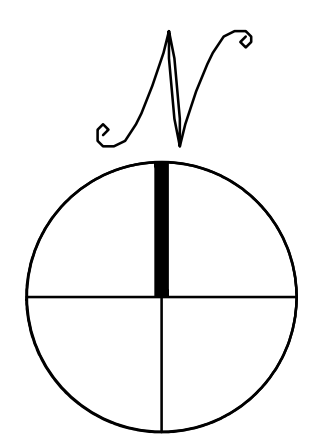
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454 ROOSEVELT TRAIL
WINDHAM, ME 04062

APPLICANT: ROOSEVELT TRAIL SOLAR 1, LLC
NEW LEAF ENERGY, INC.
ATTN: HOLLY GANSER
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851

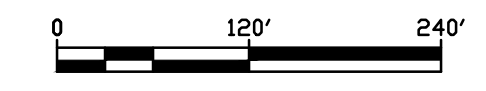
ENGINEER: NEW LEAF ENERGY, INC.
ATTN: HOLLY GANSER
55 TECHNOLOGY DRIVE, SUITE 102
LOWELL, MA 01851

SETBACKS:
FRONT - 15'
SIDE - 10'
REAR - 10'



TREE CLEARING PLAN

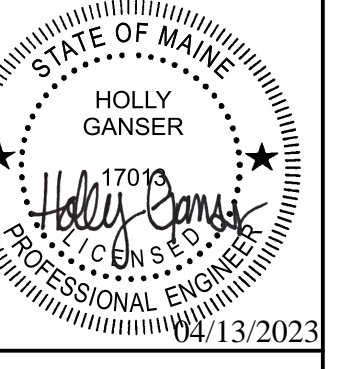
SCALE: 1" = 120'





APPROVED: TOWN OF WINDHAM
PLANNING BOARD

NOT FOR
CONSTRUCTION



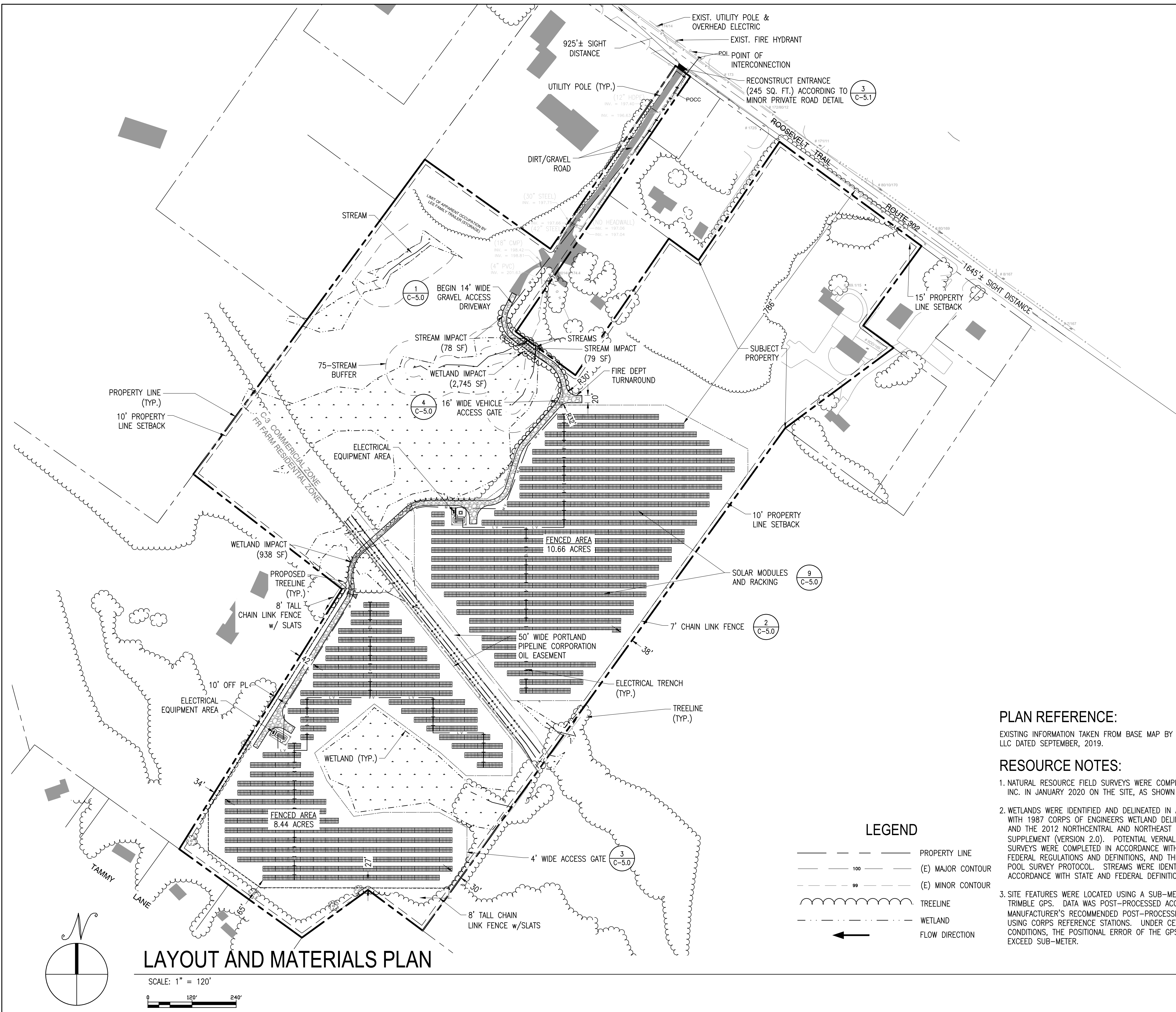
PLAN SET
464 ROOSEVELT TRAIL
WINDHAM, ME 04062

PROJECT NUMBER:
XXX-XXXX

| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|-----|----------|-------|---------|------------------------------|
| | 04/20/20 | LBD | DNA | FINAL SITE PLAN RESUBMISSION |
| | 03/11/23 | LBD | HG | SITE PLAN EXTENSION |
| | 04/11/23 | NB | HG | SITE PLAN EXTENSION |

SCALES STATED ON DRAWINGS
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ARCH D 24" X 36"

C-3.0
LAYOUT AND MATERIALS
PLAN



CONDITIONS OF APPROVAL:

1. PROPERLY INSTALLED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING THE PROJECT, AND ALL DISTURBED SOIL SHOULD BE STABILIZED IMMEDIATELY UPON PROJECT COMPLETION IN ACCORDANCE WITH 38 M.R.S. § 420-C.
2. ANY SOLID WASTE GENERATED AS A RESULT OF DECOMMISSIONING MUST BE EITHER RECYCLED OR DISPOSED OF AT A FACILITY THAT IS LICENSED ISSUED PURSUANT TO THE SOLID WASTE MANAGEMENT RULES AND IN COMPLIANCE WITH THAT LICENSE.
3. PRIOR TO THE START OF CONSTRUCTION, THE APPLICANT SHALL SUBMIT FINANCIAL ASSURANCE TO COVER THE COST OF DECOMMISSIONING TO THE DEPARTMENT FOR REVIEW AND APPROVAL WITH A CONDITION COMPLIANCE APPLICATION.
4. THE APPLICANT SHALL NOTIFY THE DEPARTMENT AT LEAST 30 DAYS PRIOR TO THE INITIATION OF DECOMMISSIONING.
5. AT THE TIME OF DECOMMISSIONING, THE APPLICANT SHALL SUBMIT A PLAN FOR CONTINUED BENEFICIAL USE OF ANY COMPONENTS PROPOSED TO BE LEFT ON-SITE TO THE DEPARTMENT FOR REVIEW AND APPROVAL.
6. THE APPLICANT SHALL MAINTAIN FINANCIAL ASSURANCE SUFFICIENT TO COVER THE COST OF DECOMMISSIONING THROUGHOUT THE LIFE OF THE SOLAR ENERGY DEVELOPMENT, INCLUDING THROUGH DECOMMISSIONING.
7. THE APPLICANT SHALL REVIEW THE DECOMMISSION PLAN AND COST OF DECOMMISSIONING AND UPDATE THE FINANCIAL ASSURANCE 15 YEARS AFTER THE DATE OF THIS ORDER AND EVERY 5 YEARS THEREAFTER. EACH UPDATE TO THE FINANCIAL ASSURANCE MUST BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL BY DECEMBER 31st OF THE YEAR IN WHICH THE UPDATE IS DUE.
8. THE APPLICANT SHALL DECOMMISSION THE PROJECT WHEN IT CEASES TO GENERATE ELECTRICITY FOR A CONTINUOUS PERIOD OF TWELVE MONTHS. IN THE CASE OF A FORCE MAJEURE OR OTHER EVENT THAT CAUSES THE PROJECT TO FAIL TO GENERATE ELECTRICITY FOR 12 MONTHS, THE APPLICANT MAY SUBMIT TO THE DEPARTMENT, FOR REVIEW AND APPROVAL, REASONABLE EVIDENCE THAT THE PROJECT CAN BE OPERATIONAL WITHIN 12 MONTHS. ABSENT APPROVAL, THE SOLAR ENERGY DEVELOPMENT SHALL BE DECOMMISSIONED IN ACCORDANCE WITH THE DECOMMISSIONING PLAN.

PLAN REFERENCE:

EXISTING INFORMATION TAKEN FROM BASE MAP BY DOUCET SURVEY LLC DATED SEPTEMBER, 2019.

RESOURCE NOTES:

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ENGINEER: NEW LEAF ENERGY, INC.
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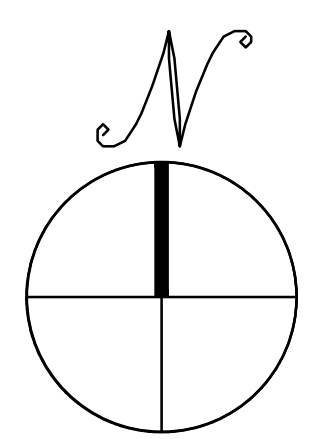
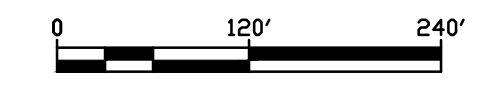
SETBACKS:
FRONT - 15'
SIDE - 10'
REAR - 10'

LEGEND

- — — — — PROPERTY LINE
- 100 — — — — (E) MAJOR CONTOUR
- 99 — — — — (E) MINOR CONTOUR
- ~ ~ ~ ~ ~ TREELINE
- - - - - WETLAND
- ← FLOW DIRECTION

LAYOUT AND MATERIALS PLAN

SCALE: 1" = 120'



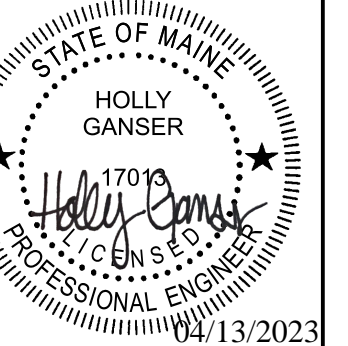
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FAX: (984) 843-6778
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APPROVED: TOWN OF WINDHAM
PLANNING BOARD

NOT FOR
CONSTRUCTION



PLAN SET
720 U.S. ROUTE 1
SCARBOROUGH, ME 04070

PROJECT NUMBER:
105-4748

| REV | DATE | DRAWN | CHECKED | RELEASE LEVEL |
|-----|----------|-------|---------|------------------------------|
| | 04/20/20 | LBD | DWA | FINAL SITE PLAN RESUBMISSION |
| | 03/11/23 | LBD | HG | SITE PLAN EXTENSION |
| | 04/11/23 | NB | HG | SITE PLAN EXTENSION |

SCALES STATED ON DRAWINGS
ARE VALID ONLY WHEN PLOTTED
ARCH D 24" X 36"

C-4.0
GRADING AND EROSION
CONTROL PLAN

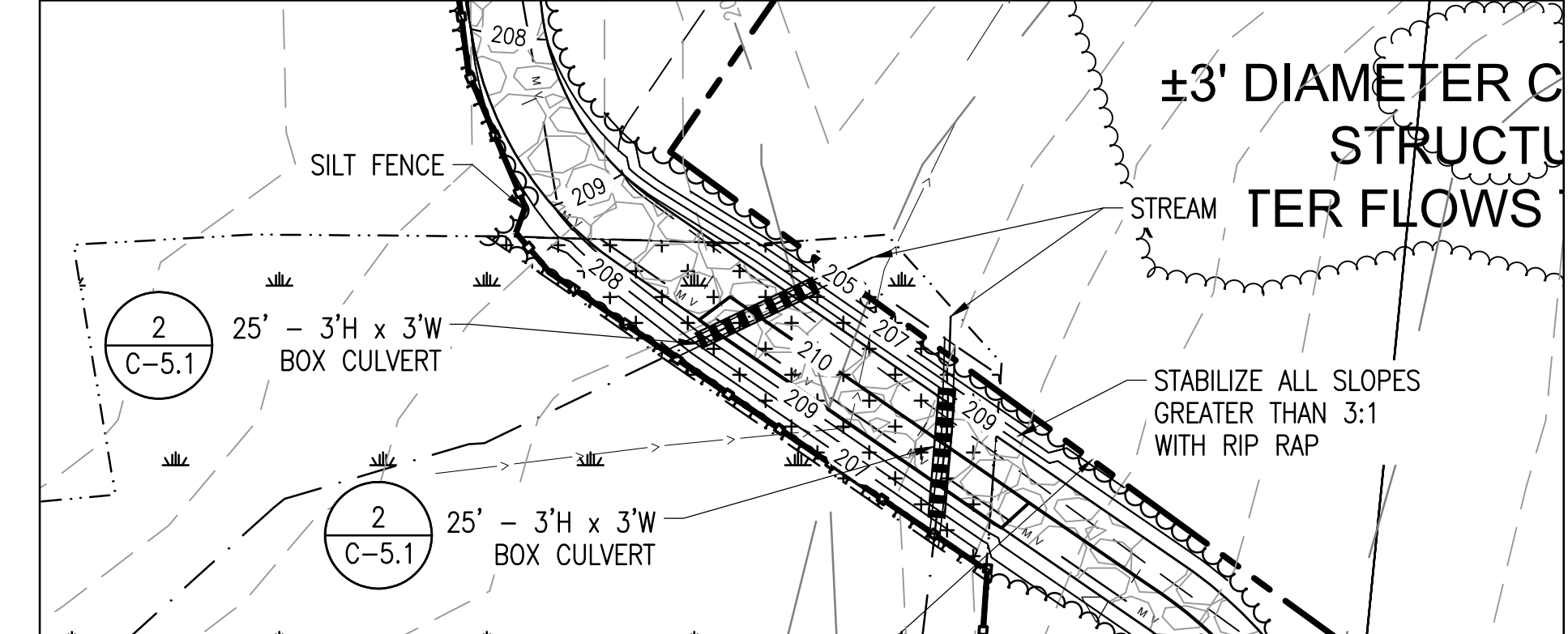


POST CONSTRUCTION STORMWATER NOTES

1. THE PROJECT IS LOCATED IN A MS4 URBANIZED AREA.
2. AN ANNUAL INSPECTION OF THE STORMWATER INFRASTRUCTURE (CULVERTS, RIP RAP APRONS, BUFFER AREAS) SHALL BE INSPECTED BY A QUALIFIED 3RD PARTY INSPECTOR BY MAY 1ST OF EACH YEAR AND REPORTED TO THE TOWN.

PIPELINE EASEMENT CROSSING NOTES

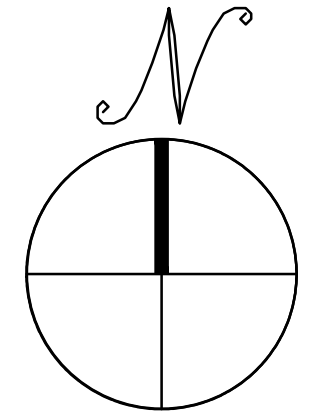
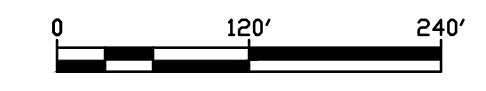
1. A PORTLAND PIPELINE CORPORATION (PPLC) REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR THE PIPELINES. CONTRACTOR SHALL NOTIFY PPLC AT LEAST 48 HOURS IN ADVANCE OF WORK.
2. WHERE HEAVY CONSTRUCTION VEHICLES MUST CROSS A PIPELINE, SUITABLE COMPACTED COVER AND PADDING SHALL BE PLACED OVER THE PIPELINE TO PROVIDE GENERALLY NOT LESS THAN FOUR (4) FEET OF SUITABLE PEORWCTIVE MATERIAL OVER THE PIPELINE. PIPELINE REPRESENTATIVE WILL LOCATE THE PIPELINES FOR CONTRACTOR UPON REQUEST.
3. NO SPOIL, EITHER PERMANENT OR TEMPORARY IN NATURE, IS TO BE DEPOSITED ON THE PIPELINES.

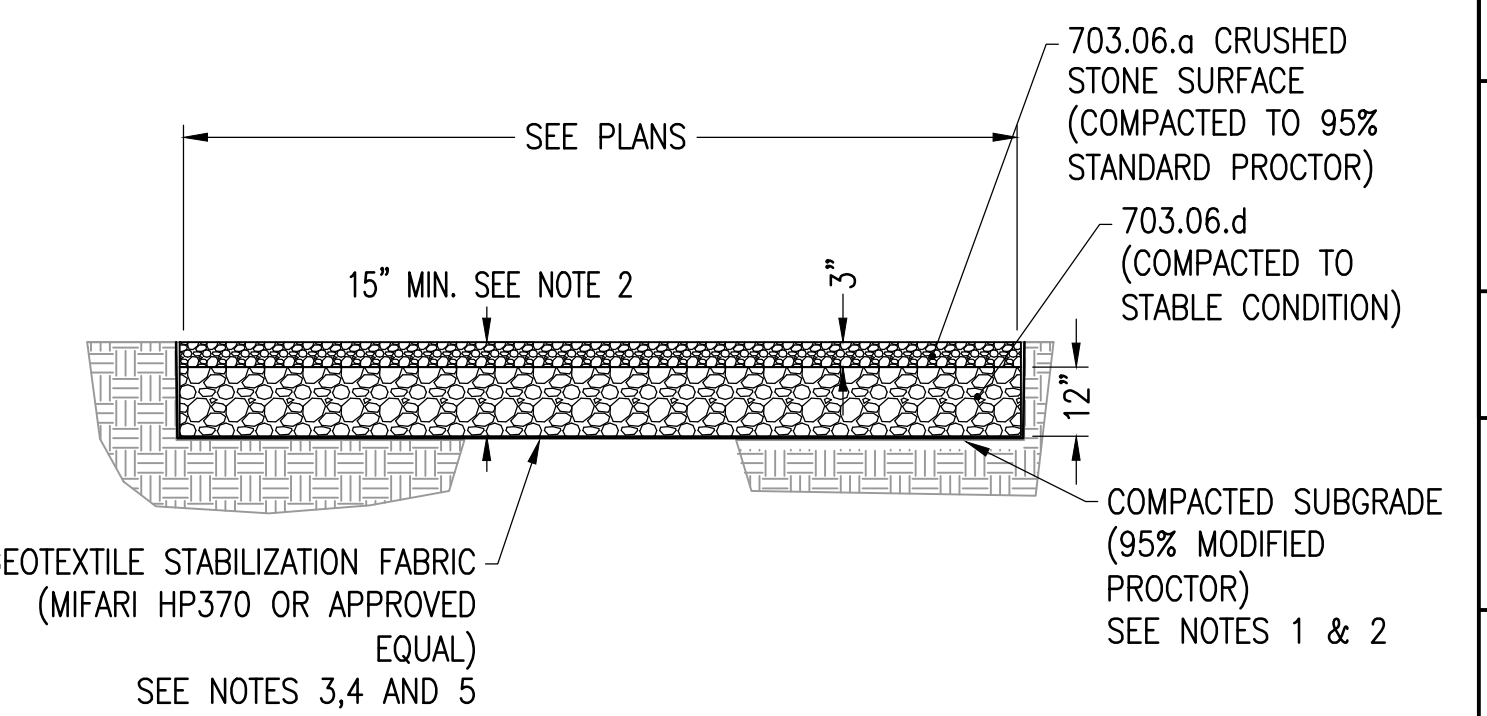
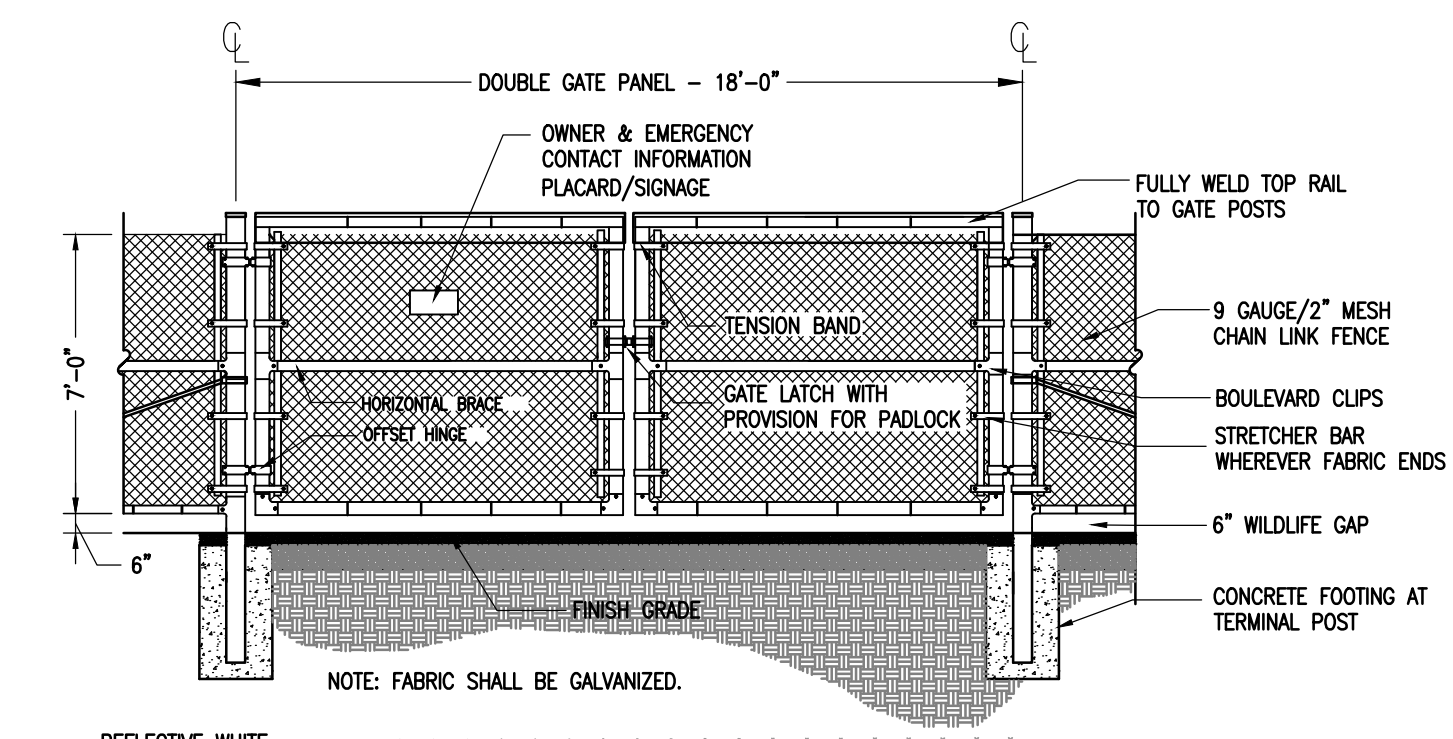
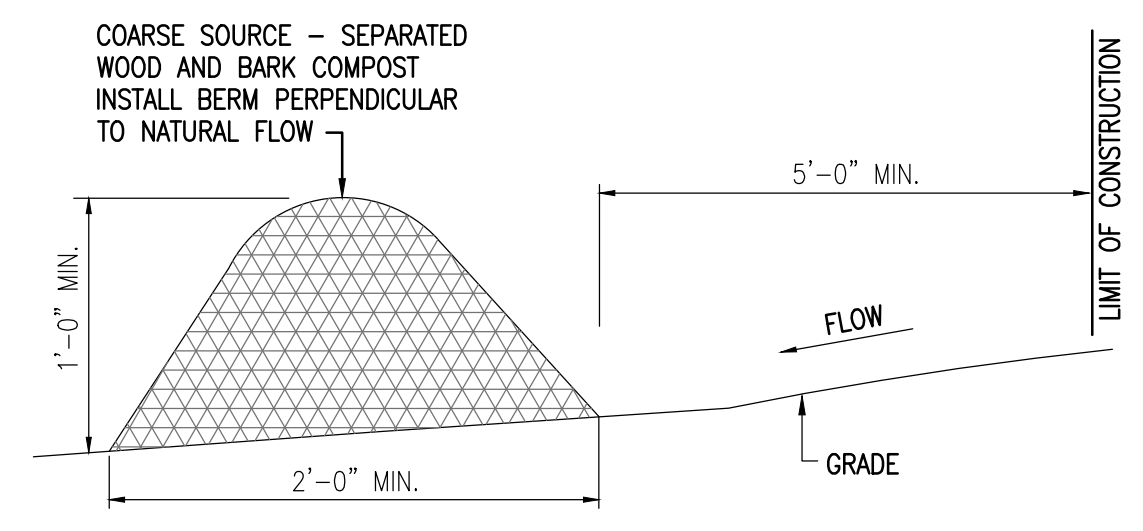
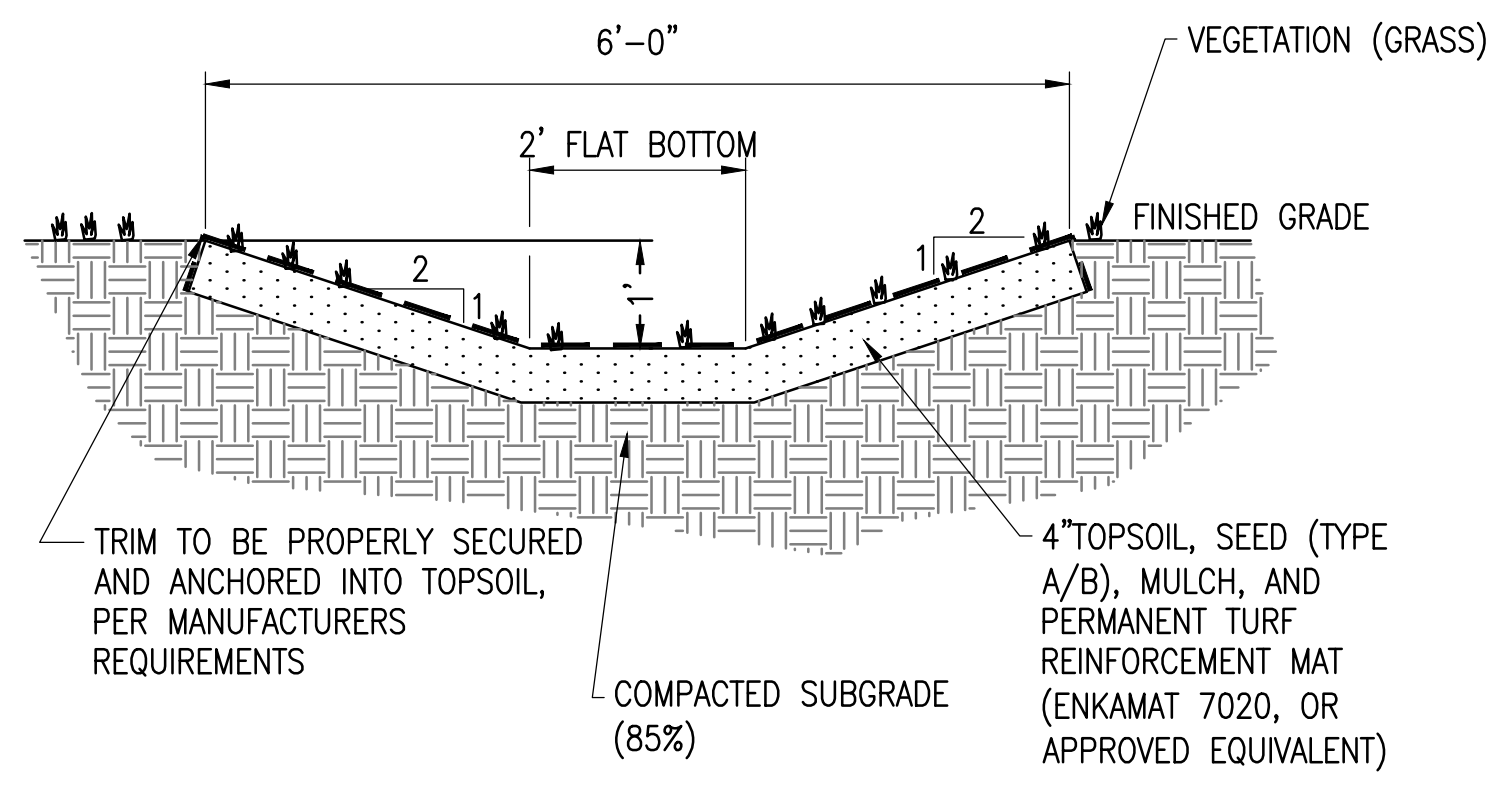


STREAM CROSSING DETAIL

GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 120'



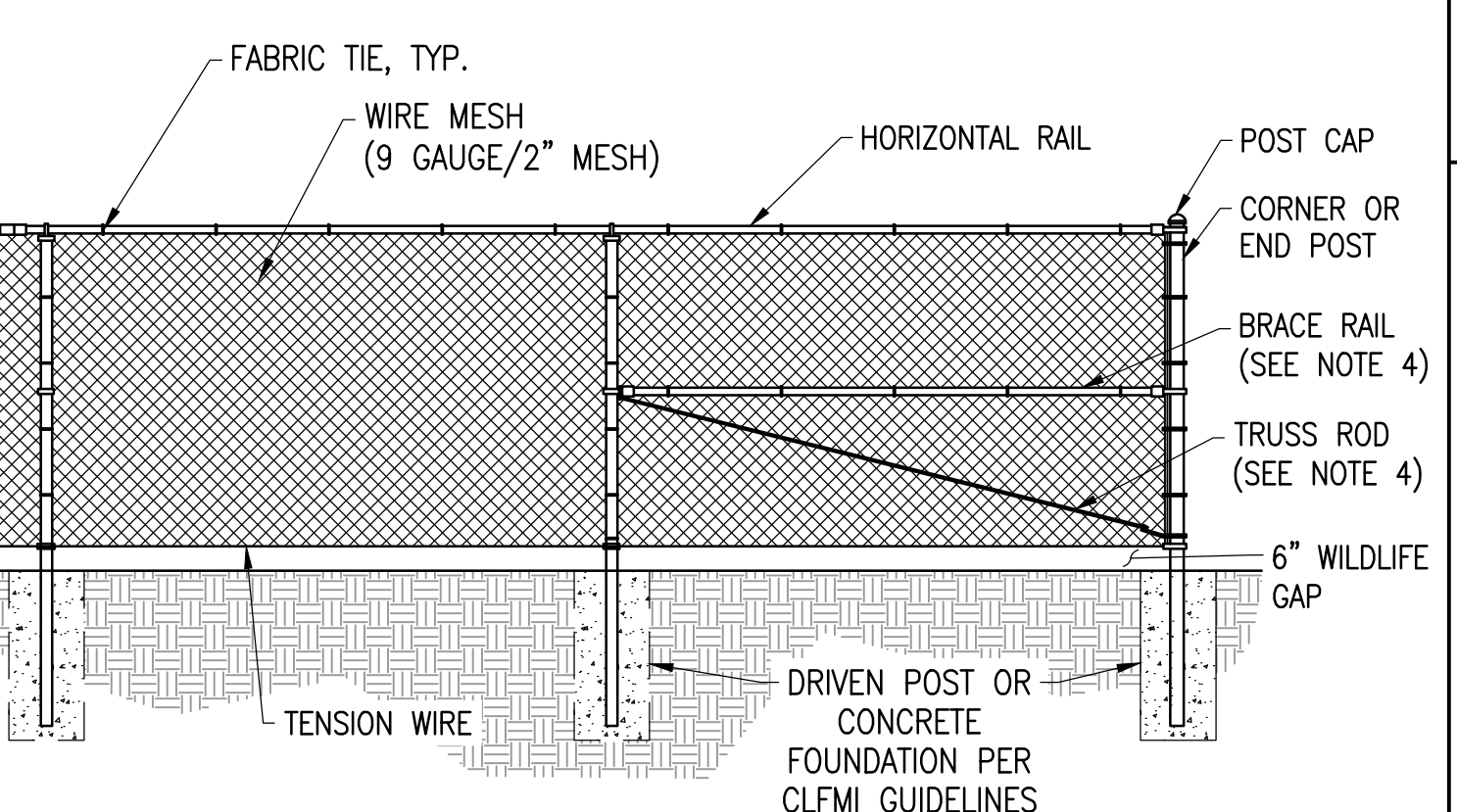
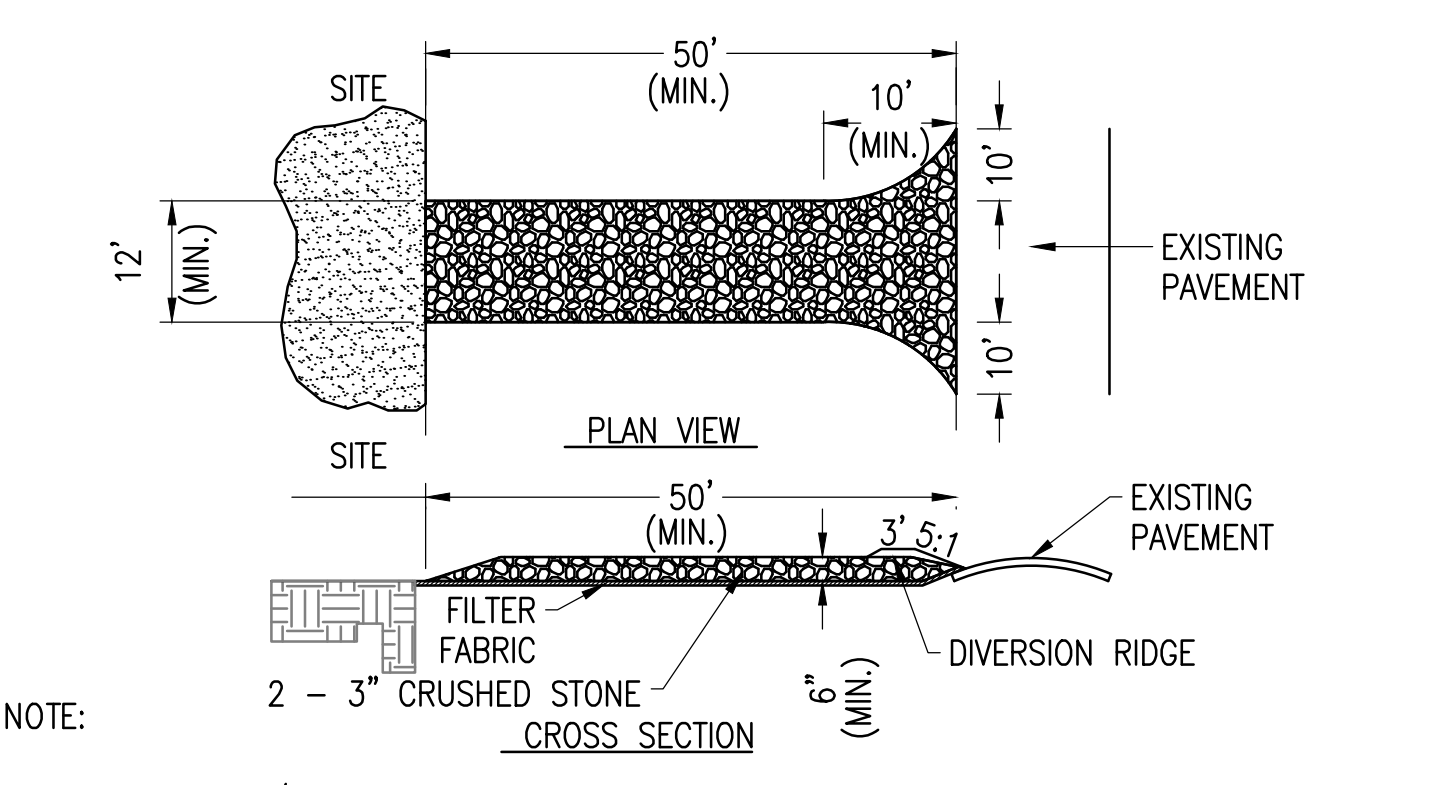
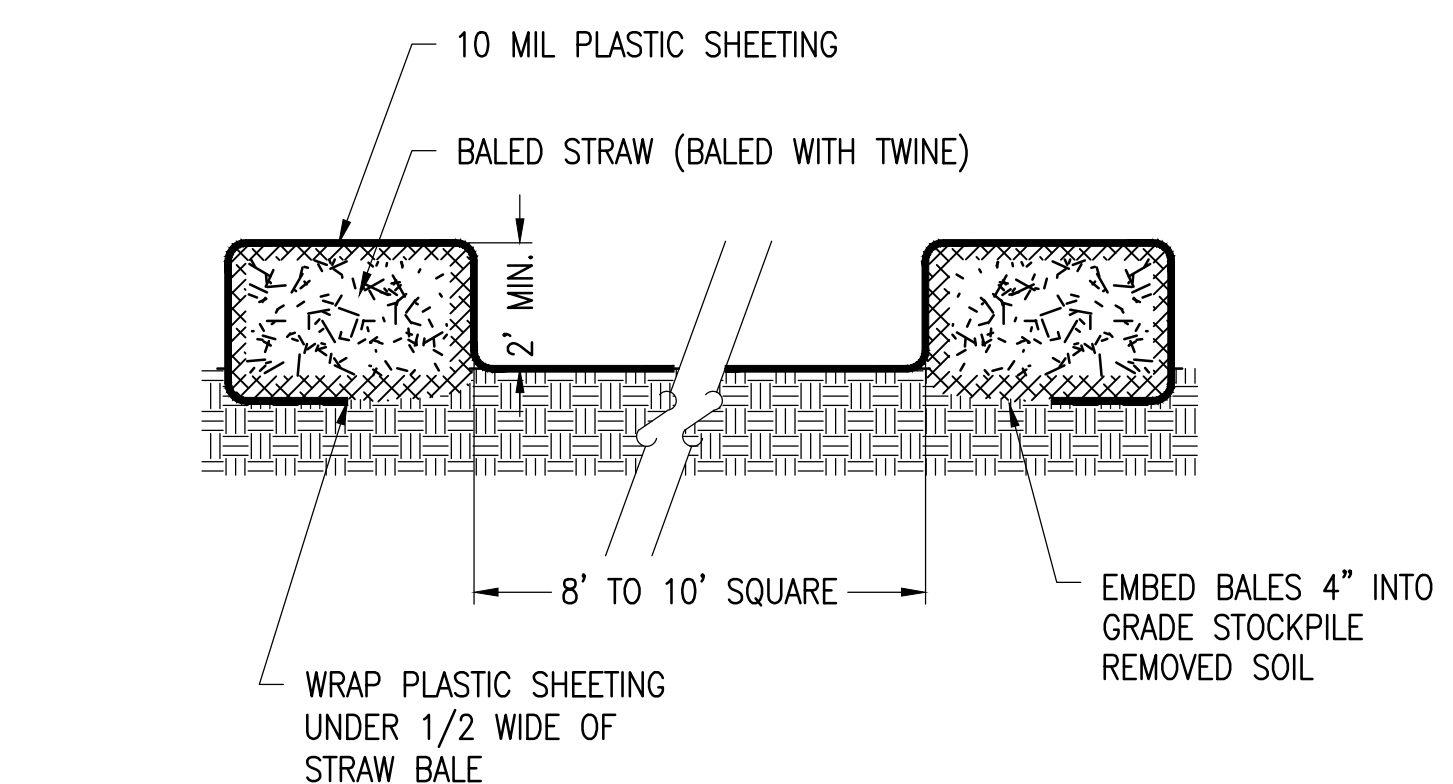
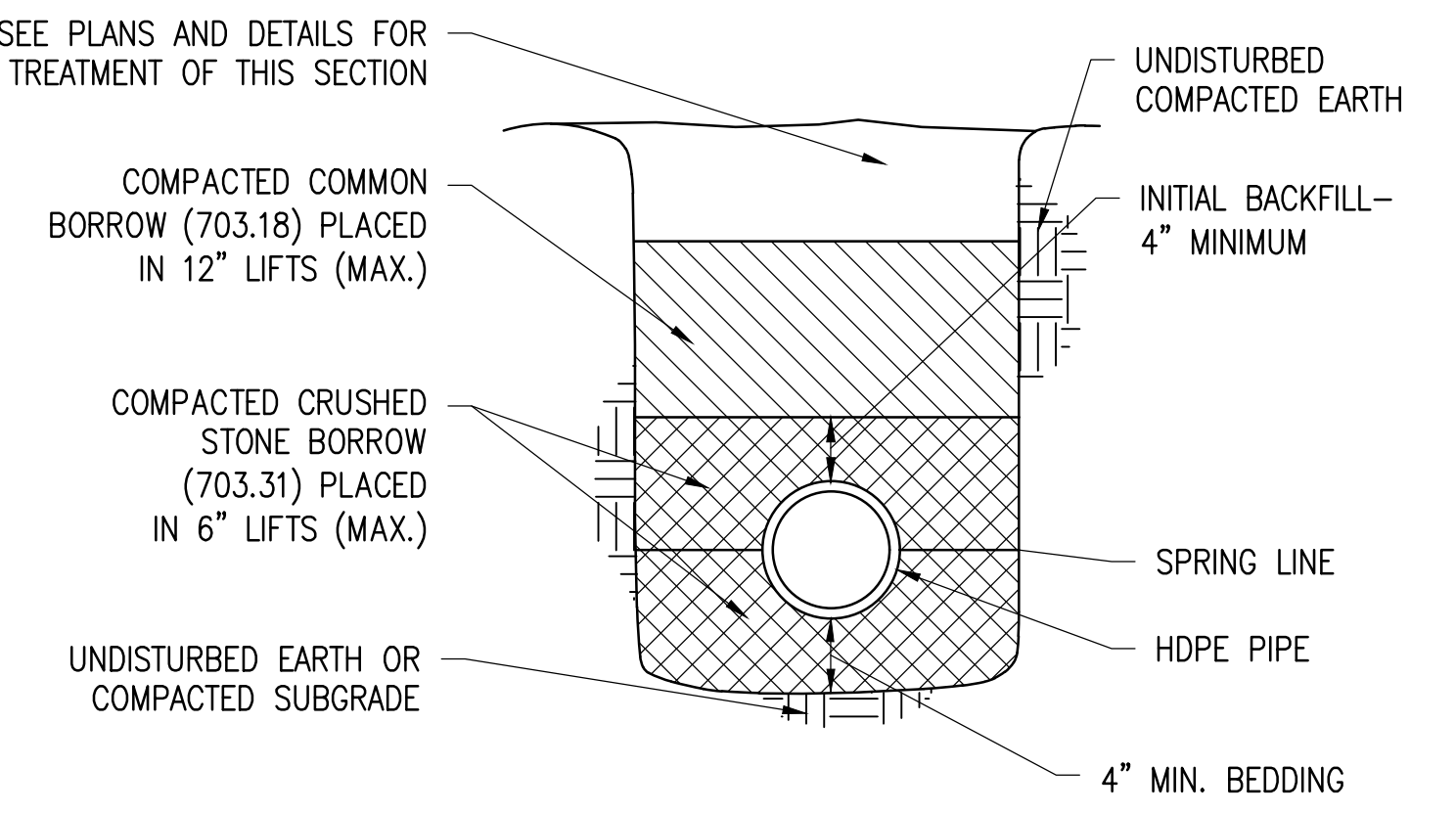


9 GRASS-LINED SWALE
SCALE: NTS
XD_CIVIL_DRAINAGE_GRASS-LINED_SWALE_ME 02-16-2021

7 EROSION CONTROL MIX BERM
(MAY BE USED AS AN ALTERNATE TO SILT FENCE OR PLACED UPGRADIENT OF SILT FENCE) SCALE: NTS

4 VEHICLE GATE/PLACARD - WILDLIFE GAP
SCALE: NTS
XD_CIVIL_FENCE_VEHICLE_GATE_7 10-23-2018

1 GRAVEL ACCESS ROAD
SCALE: NTS
XD_CIVIL_DRAINAGE_GRAVEL_ACCESS_ROAD_LI 04-30-2019

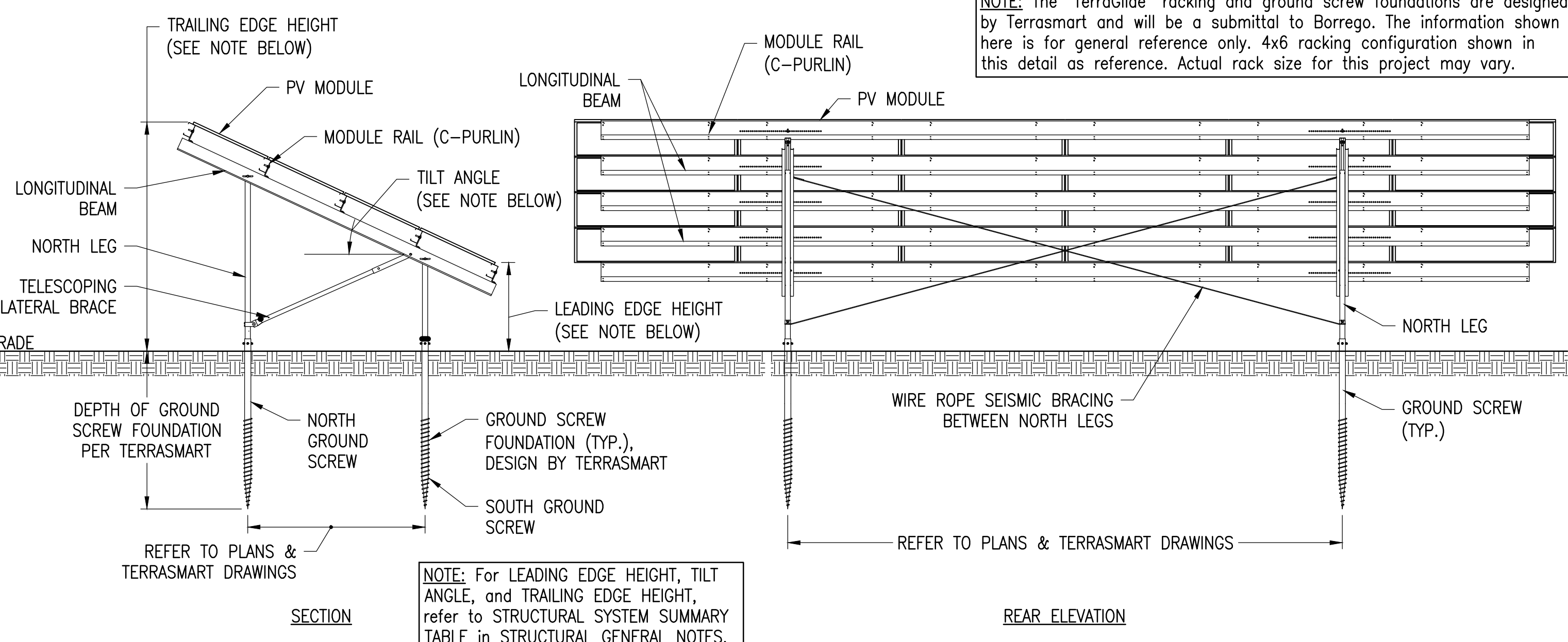


10 HDPE DRAIN PIPE BEDDING
SCALE: NTS
XD_CIVIL_DRAINAGE_HDPE_DRAIN_PIPE_BEDDING 06-28-2016

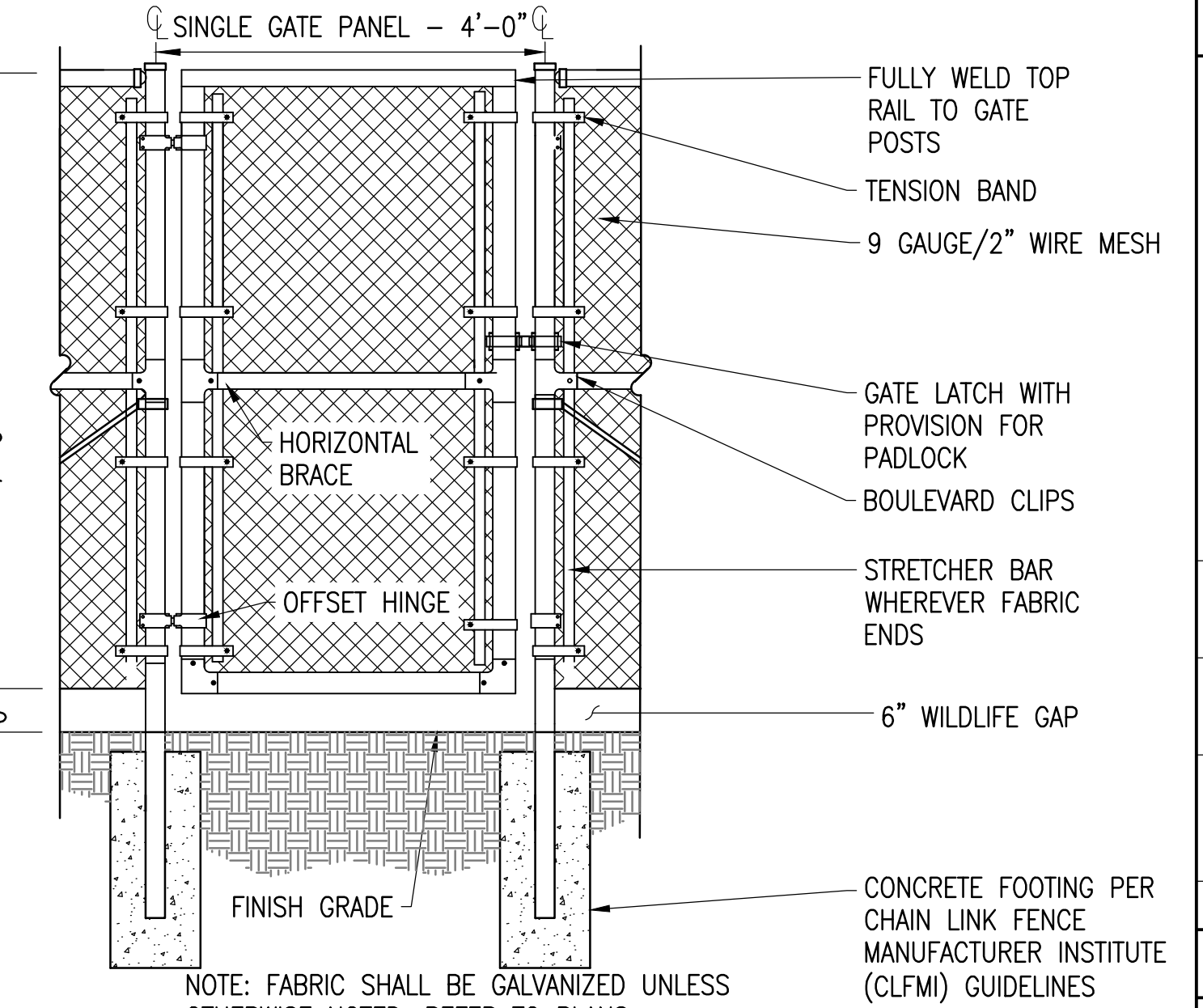
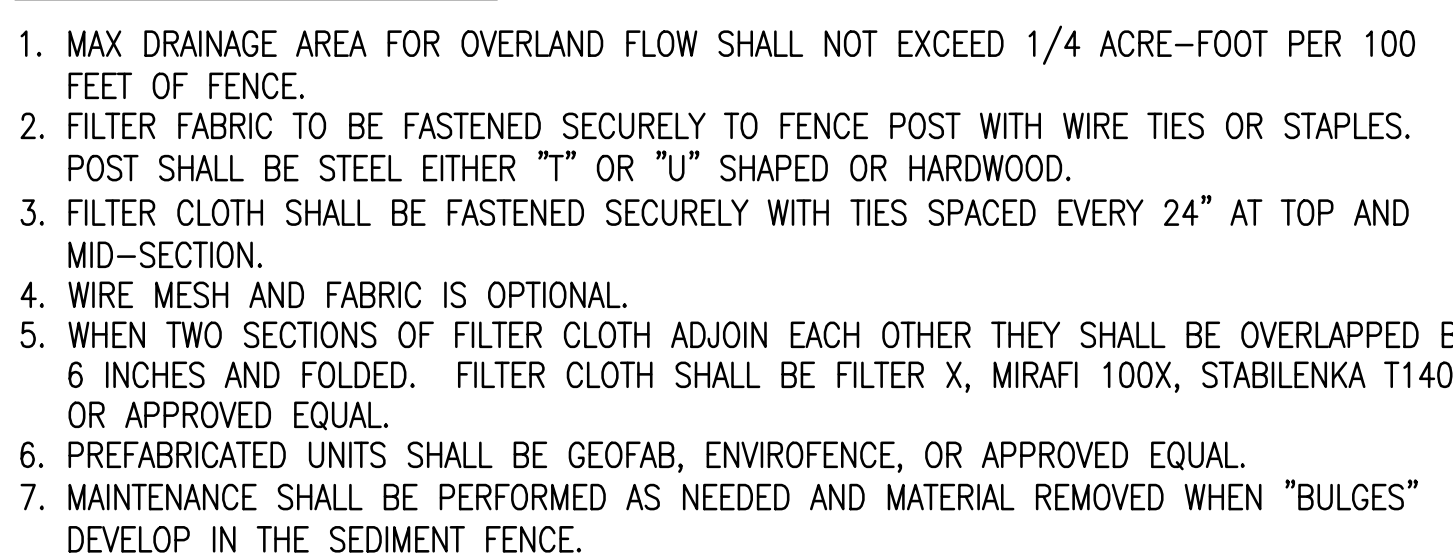
8 CONCRETE WASHOUT BASINS
SCALE: NTS
XD_CIVIL_CONCRETE_WASHOUT_BASINS 07-28-2017

5 STABILIZED CONSTRUCTION EXIT
SCALE: NTS
XD_CIVIL_STABILIZED_CONSTRUCTION_EXIT_ME 02-16-2021

2 CHAIN LINK FENCE WITH WILDLIFE GAP
SCALE: NTS
XD_CIVIL_FENCE_7_CHAIN_LINK_WILDLIFE_GAP 07-02-2020



| MAX ALLOWABLE SLOPE LENGTH | |
|----------------------------|------------------|
| STEEPNESS | MAX LENGTH (FT.) |
| 2:1 | 25 |
| 3:1 | 50 |
| 4:1 | 75 |
| 5+:1 | 100 |



11 TYPICAL RACK SECTION & REAR ELEVATION
TERRASMART TGL
SCALE: NTS
XD_S_TERRASMART_TGL_RACK_SECT & REAR_ELEV 08/25/2020

6 SILT FENCE
SCALE: NTS
XD_CIVIL_EROSION_SILT_FENCE_P 2014-10-17

3 4' ACCESS GATE WITH WILDLIFE GAP
SCALE: NTS
XD_CIVIL_SITE_CONSTRUCTION_4_WALK_THROUGH_GATE 07-25-2017

| DATE | REV | DRAWN | CHECKED | RELEASE LEVEL |
|----------|-----|-------|---------|------------------------------|
| 04/20/20 | LD | DNA | HG | FINAL SITE PLAN RESUBMISSION |
| 03/11/23 | LD | HG | HG | FINAL SITE PLAN EXTENSION |
| 04/11/23 | NB | HG | HG | FINAL SITE PLAN EXTENSION |

NOT FOR CONSTRUCTION

STATE OF MAINE
HOLLY GANSER
17013
PROFESSIONAL ENGINEER
04/13/2023

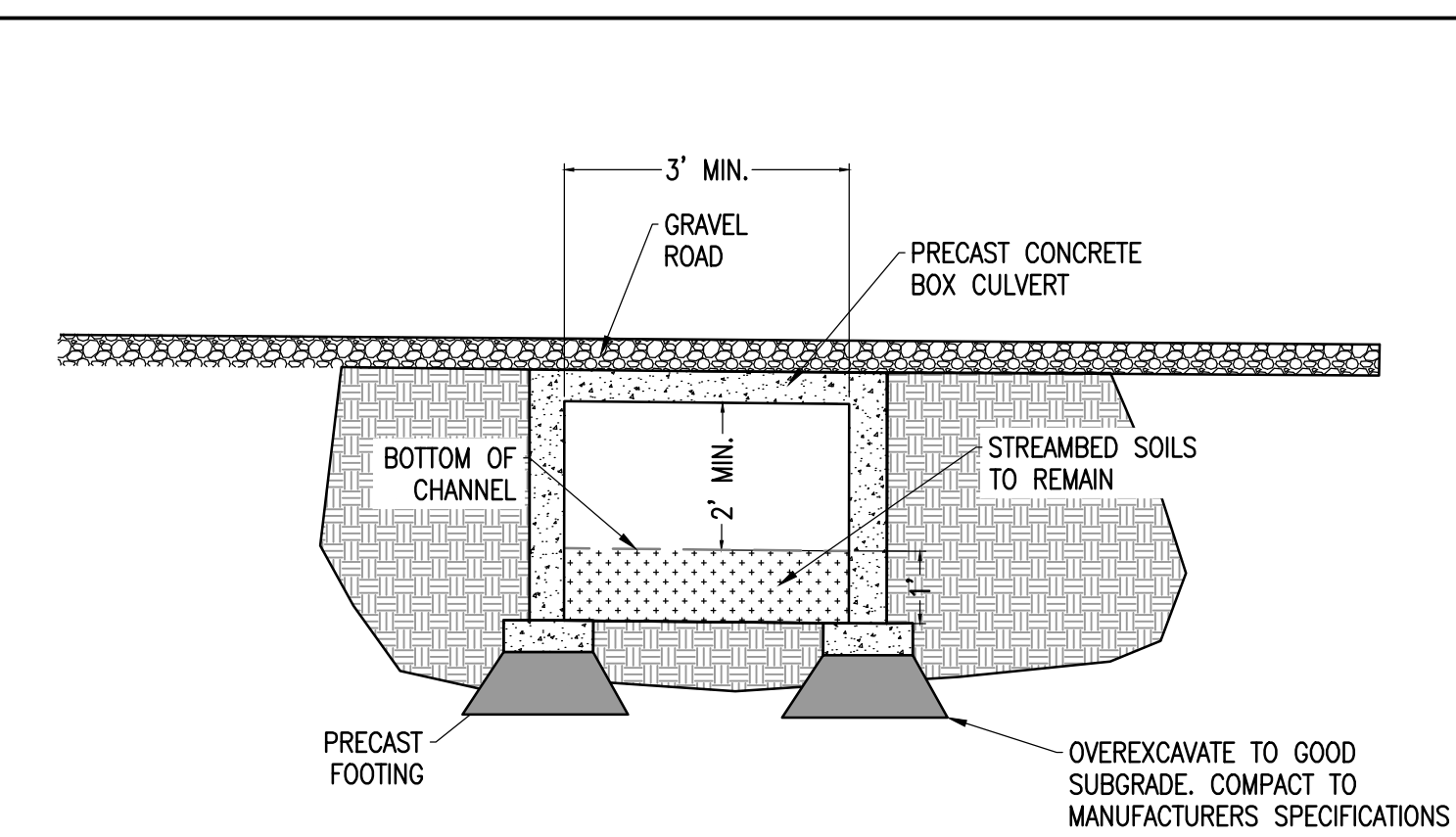
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PROJECT NUMBER:
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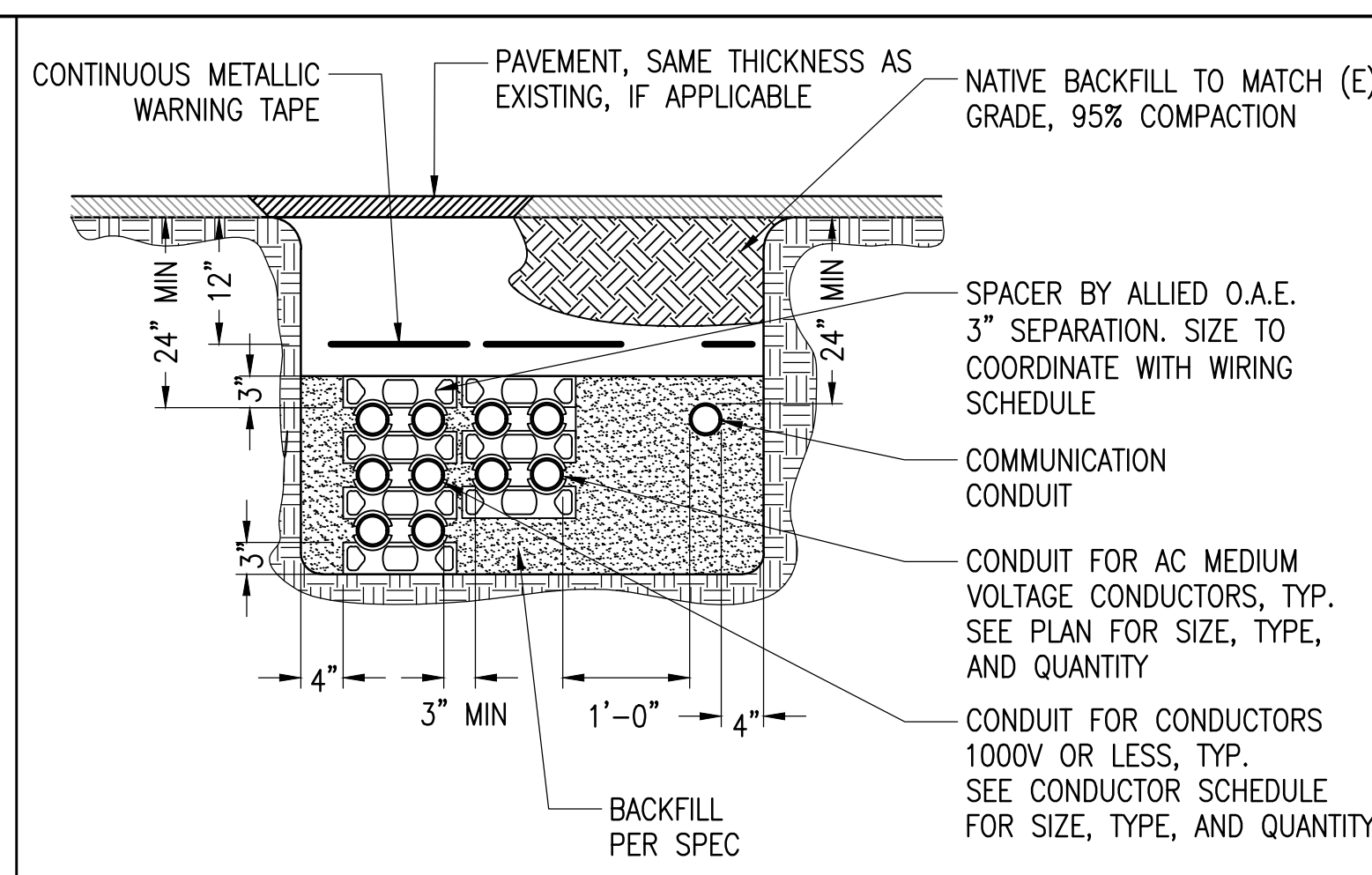
C-5.1
CIVIL DETAILS



- NOTES:
- CULVERT SHALL BE INSTALLED DURING A PERIOD OF DRY WEATHER AND LOW FLOW (OR NO FLOW).
 - CULVERT FOOTINGS SHALL BE INSTALLED ON APPROPRIATE SUBSTRATE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - EXISTING STREAMBED SOILS WITHIN LIMITS OF BOX CULVERT EXCAVATION SHALL REMAIN.
 - CULVERT SHALL BE DESIGNED FOR H-20 LOADING.
 - A MINIMUM OF 12" OF COVER SHALL BE MAINTAINED OVER THE CULVERT.

1 BOX CULVERT END VIEW

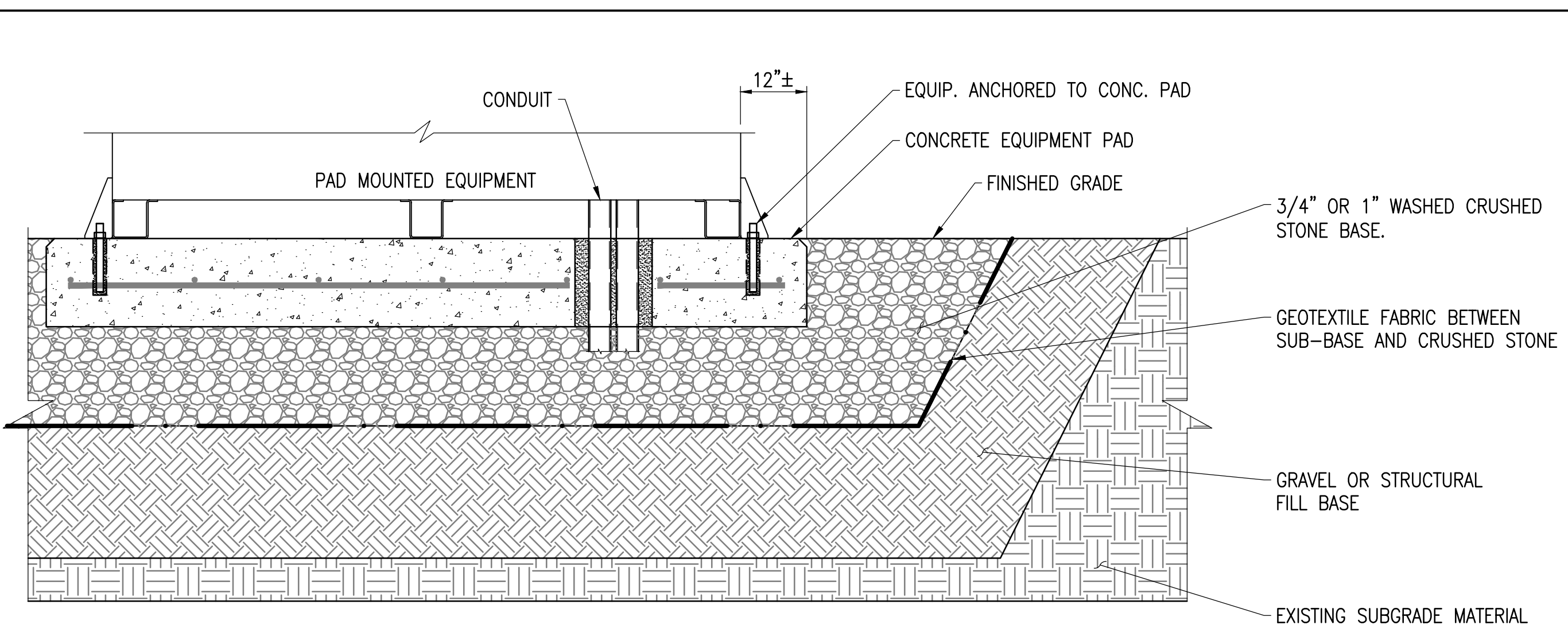
SCALE: NTS
XD_CIVIL_DRAINAGE_BOX_CULVERT_END_VIEW 2020-01-29



- NOTES:
- MAINTAIN A MINIMUM DISTANCE OF 1" BETWEEN CONDUIT WITH COMMUNICATION WIRING AND ANY CONDUIT WITH ELECTRIC POWER CONDUCTORS. POWER AND DATA CONDUITS MAY CROSS AND THE 1" MIN. MAY BE REDUCED FOR TRENCH SECTIONS LESS THAN 10' OR NEAR EQUIPMENT STUB-UPS.
 - BACKFILL IN ACCORDANCE WITH ELECTRICAL SPECIFICATION SECTION 312000.

4 TYPICAL TRENCH

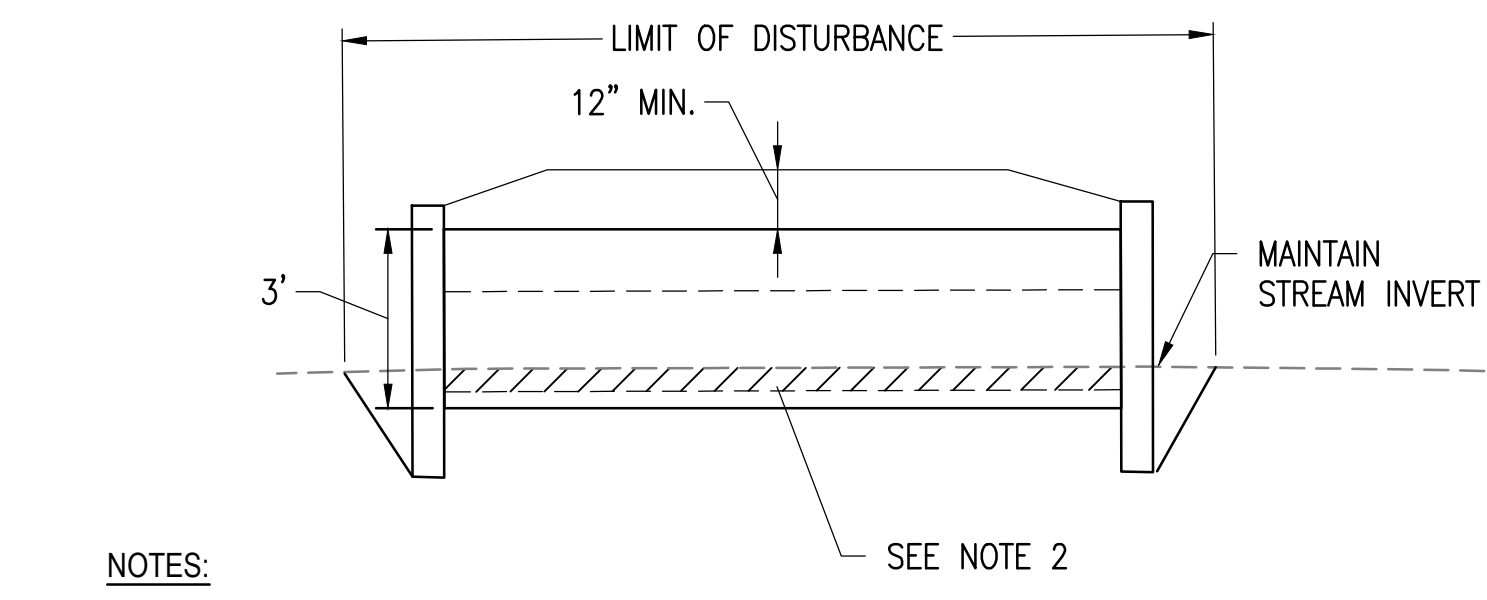
SCALE: NTS
XD_CIVIL_TYPICAL_TRENCH 2021-02-24



NOTE: CONSTRUCTION LEVEL DETAIL WILL INCORPORATE FINAL EQUIPMENT SPECIFICATIONS AND GEOTECHNICAL RECOMMENDATIONS

6 CONCRETE EQUIPMENT PAD - SECTION

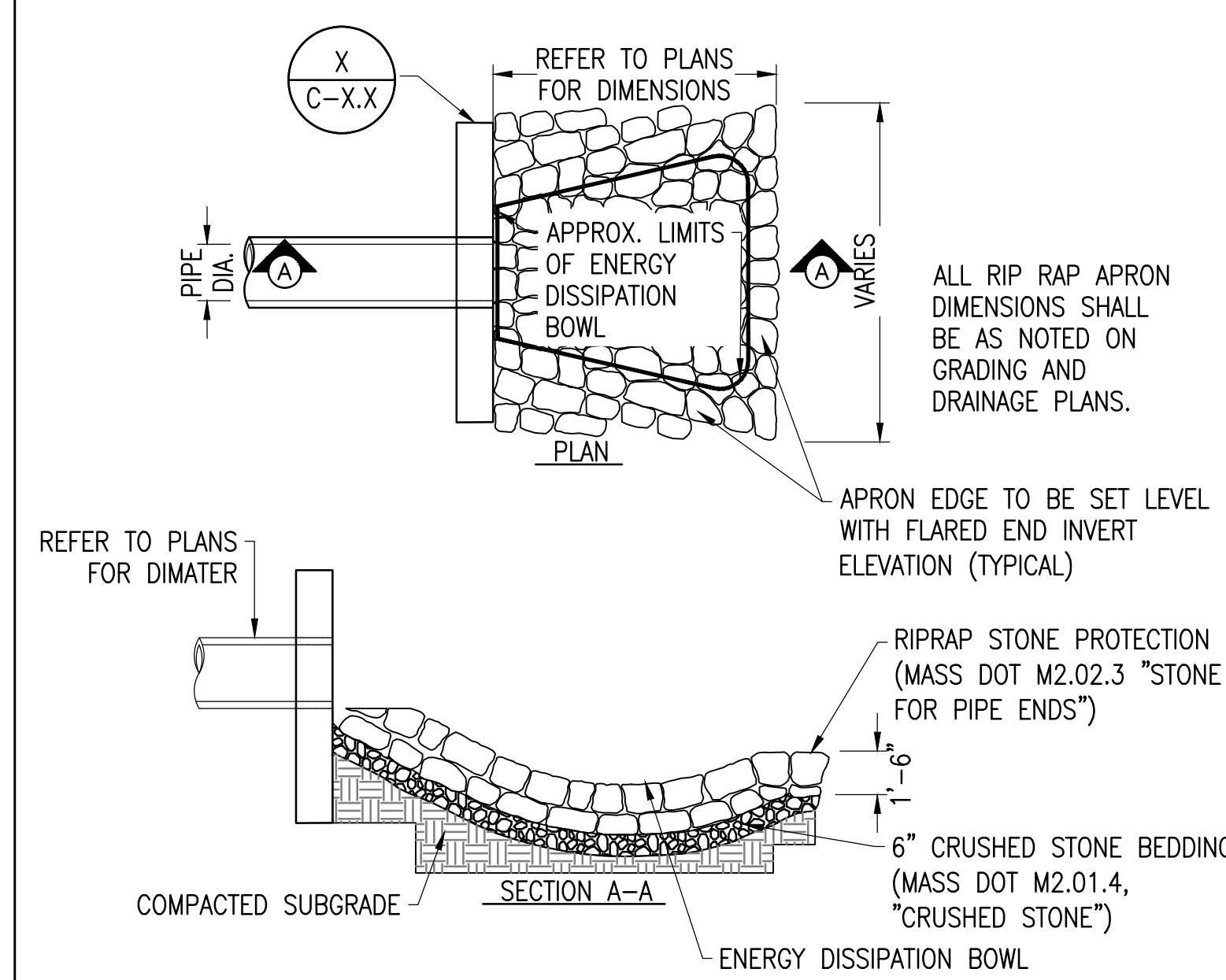
SCALE: N.T.S.
XD_CIVIL_EQUIPMENT_PAD 2018-08-06



- NOTES:
- BANKFULL WIDTH IS 2' x 1.2 = 2.4'. PROPOSED CULVERT IS 3' x 2.4'.
 - CULVERT SHALL BE BURIED 20% INTO THE STREAMBED. STREAMBED MATERIAL SHALL REMAIN IN PLACE DURING INSTALLATION OF CULVERT, WHEREVER POSSIBLE.
 - CULVERT INSTALLATION SHALL OCCUR DURING THE DRY SEASON.
 - HEADWALLS SHALL BE SUPPORTED ON PROPER SUBGRADE AND COMPACTED TO 95%.

2 STREAM CROSSING - SECTION

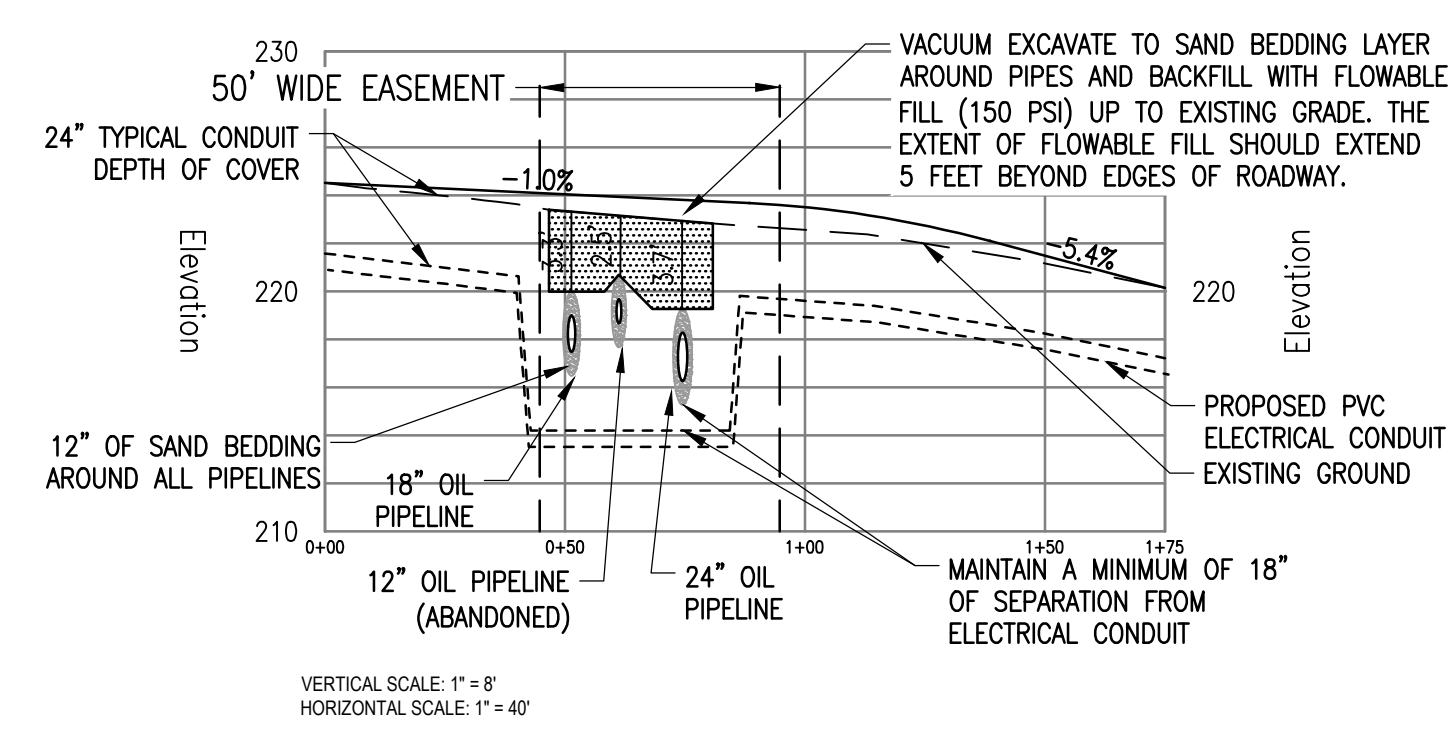
SCALE: NTS



7 HEADWALL RIP-RAP APRON

SCALE: NTS
XD_CIVIL_DRAINAGE_HEADWALL_RIP-RAP_APRON 2016-6-9

- NOTES:
- A PORTLAND PIPELINE (PPLC) REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR THE PIPELINES. CONTRACTOR SHALL NOTIFY PPLC AT LEAST 48 HOURS IN ADVANCE OF WORK.
 - WHERE HEAVY CONSTRUCTION VEHICLES MUST CROSS A PIPELINE, SUITABLE COMPACTED COVER AND PADDING SHALL BE PLACED OVER THE PIPELINE TO PROVIDE GENERALLY NOT LESS THAN FOUR (4) FEET OF SUITABLE PROTECTIVE MATERIAL OVER THE PIPELINE. PIPELINE REPRESENTATIVE WILL LOCATE PIPELINES FOR CONTRACTOR UPON REQUEST.
 - NO SOIL, EITHER PERMANENT OR TEMPORARY IN NATURE, IS TO BE DEPOSITED ON THE PIPELINES.

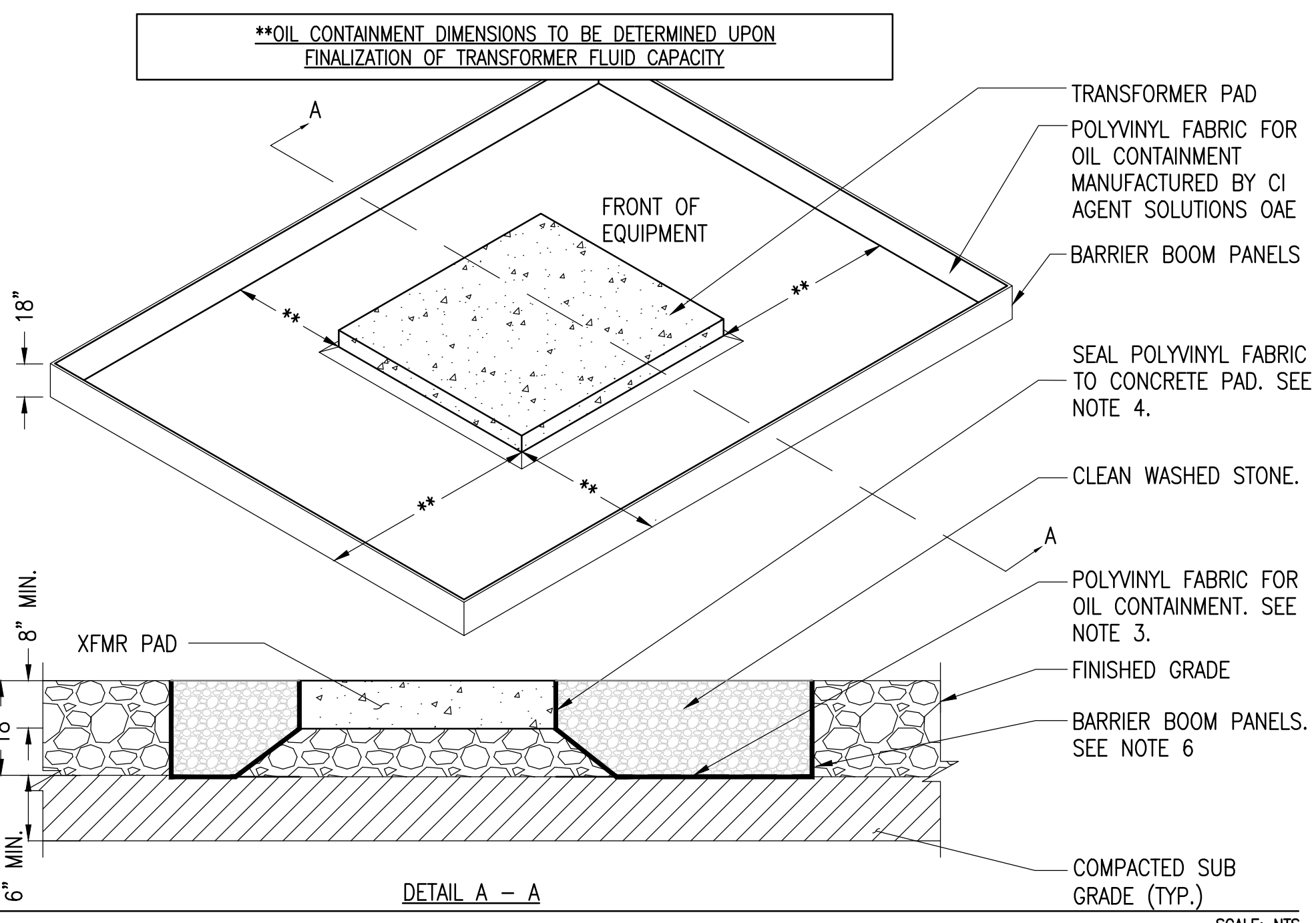


8 PORTLAND PIPELINE EASEMENT CROSSING

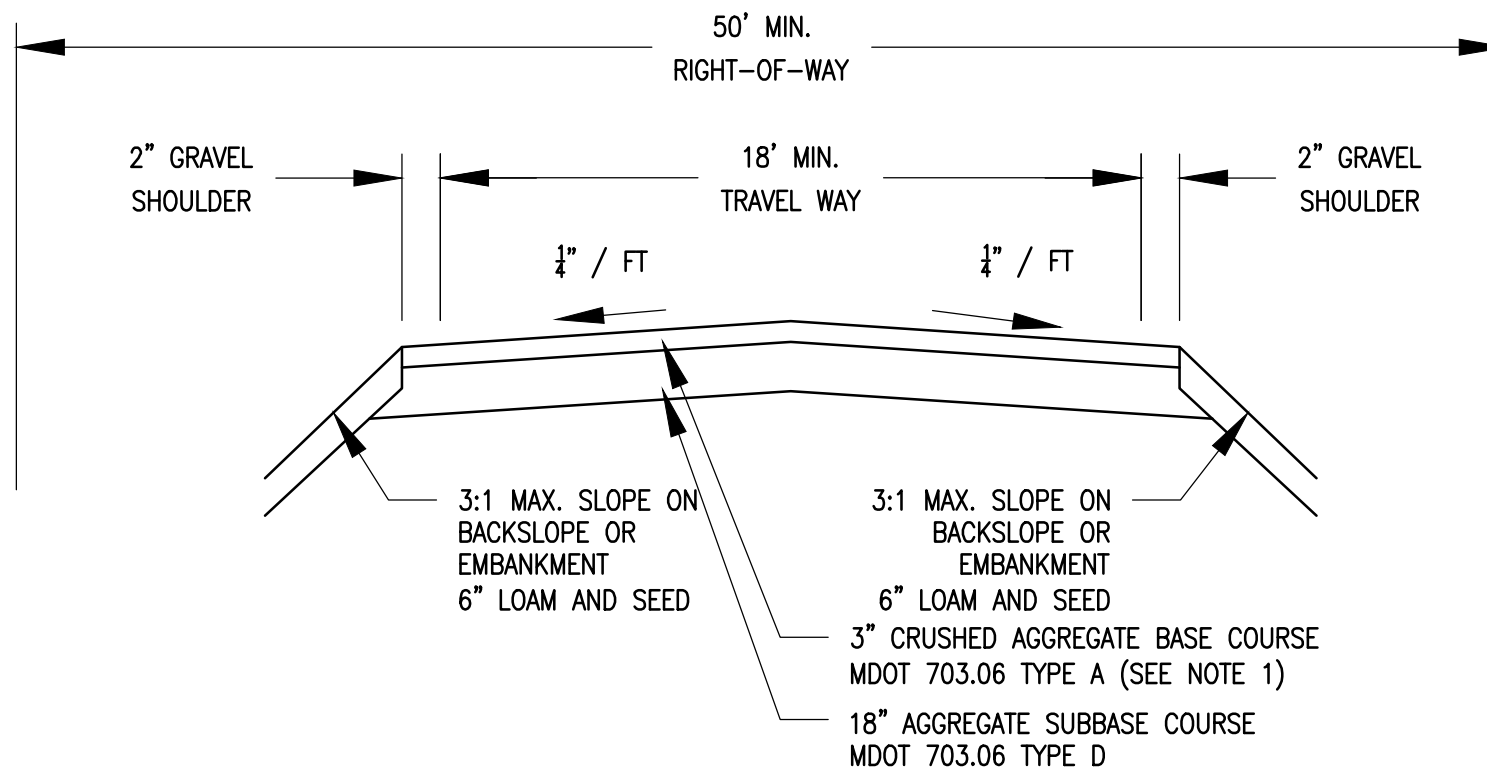
- NOTES:
- PRIOR TO INSTALLATION, SUBCONTRACTOR SHALL CONTACT CONTAINMENT DISTRIBUTOR, SO THAT A REPRESENTATIVE CAN BE ON SITE DURING CONSTRUCTION. DOCUMENTING INSTALLATION IS REQUIRED TO VALIDATE OIL CONTAINMENT PROTECTION POLICY.
 - EXCAVATION AREA TO BE MINIMUM OF 1' LARGER THAN SIZE OF CONTAINMENT UNIT AND MINIMUM OF 6" DEEPER THAN THE FLOOR OF THE CONTAINMENT UNIT.
 - CONTRACTOR SHALL SEAM POLYVINYL FABRIC WITH ADHESIVE AND INSTALL IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - AFTER ALL FLOOR SEAMING IS COMPLETE, SUBCONTRACTOR SHALL SEAL POLYVINYL LINER TO CONCRETE PAD USING BENTONITE GRANULAR CLAY IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - SUBCONTRACTOR SHALL SEAL ALL CONDUIT PENETRATIONS WITH FIELD CONSTRUCTED POLYVINYL BOOTS AND BRIMS PER MANUFACTURERS SPECIFICATIONS. A SINGLE BOOT SHALL BE PLACED AROUND GROUPS OF CONDUIT.
 - SUBCONTRACTOR SHALL PROVIDE 2" WOODEN STAKES TO SUPPORT THE CONTAINMENT WALLS. INSTALLATION OF OUTSIDE BARRIER BOOM USING STAKES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - PRIOR TO BACKFILLING THE FABRIC THE CONTRACTOR SHALL NOTIFY THE BORREGO SOLAR CIVIL ENGINEER AND PROVIDE SUBMITTAL FOR BACKFILL MATERIAL. PROVIDE A MINIMUM OF 48 HOURS NOTICE.

SECONDARY CONTAINMENT IS ONE METHOD FOR COMPLIANCE WITH SPCC REGULATIONS (40 CFR PART 112). ALTERNATIVE MEASURES AND SELF-CERTIFICATION OF THE SPCC PLAN MAY BE AVAILABLE UNDER SECTION 112.7(k)

5 SECONDARY SPILL CONTAINMENT LARGE



SCALE: NTS
XD_ELEC_TRANSFORMER_OIL_CONTAINMENT_SINGLE_LARGE 2020-7-1



- NOTES:
- RECLAIMED MATERIAL APPROVED BY THE PUBLIC WORKS DEPARTMENT MAY BE SUBSTITUTED.
 - CURB SHALL MEET THE REQUIREMENTS OF ORDINANCE SECTION 900.M.5.(B).(3). ONLY VERTICAL CURB IS ALLOWED ADJACENT TO SIDEWALK.
 - REFER TO ADDITIONAL STANDARDS IN ORDINANCE SECTIONS 544, 900.M AND APPENDIX B, TABLES 3 AND 4.

3 MINOR PRIVATE ROAD

SCALE: NTS