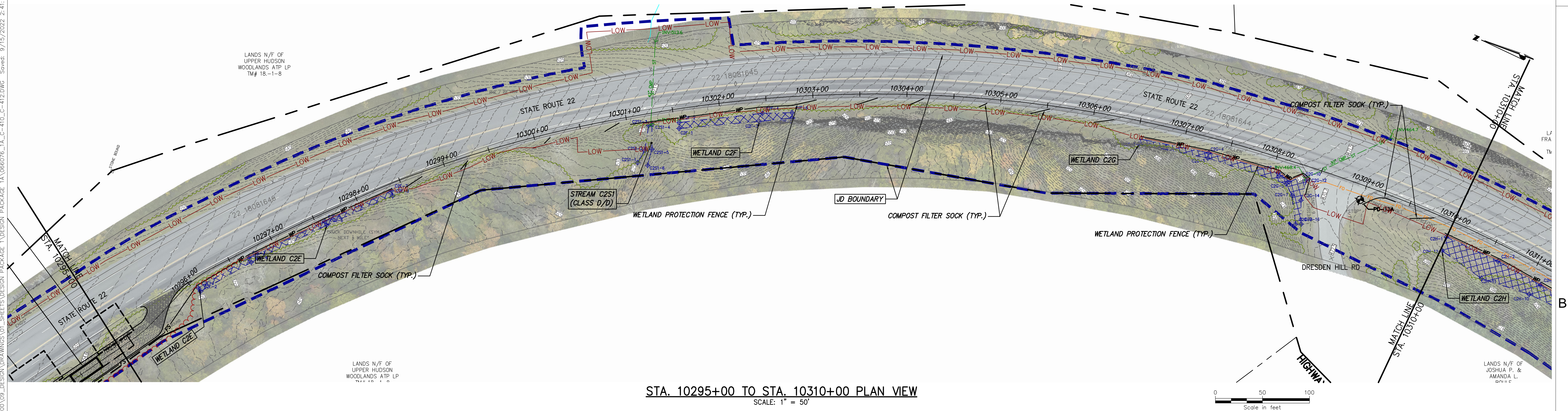




STA. 10280+00 TO STA. 10295+00 PLAN VIEW
SCALE: 1" = 50'




STA. 10295+00 TO STA. 10310+00 PLAN VIEW
SCALE: 1" = 50'




Champlain Hudson
Power Express



Kiewit



III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 • www.chacompanies.com



09/18/2022

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

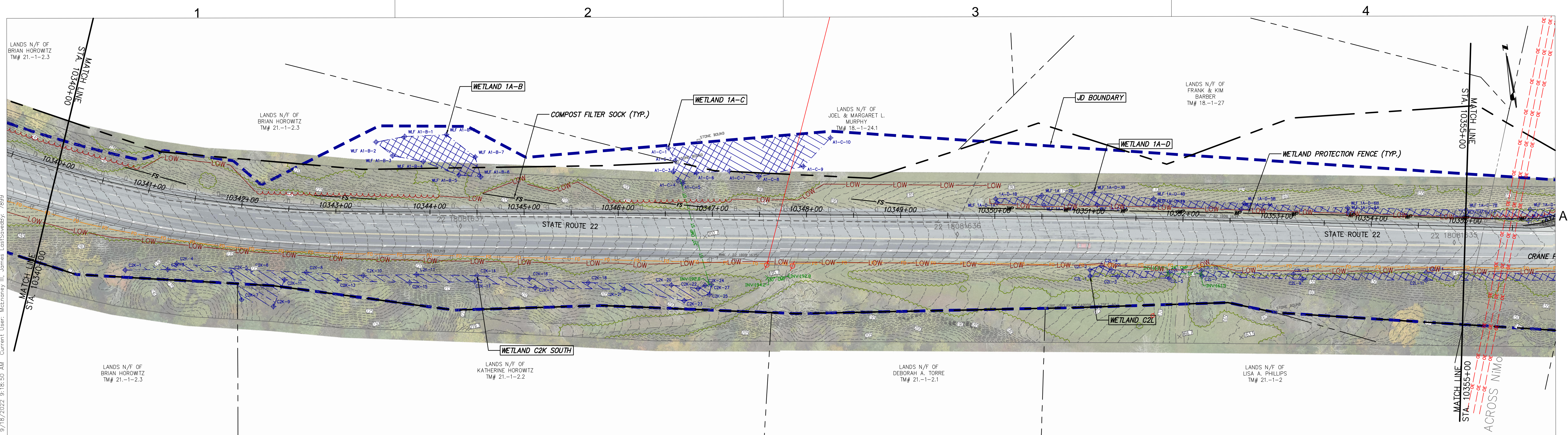
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
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| 0 | 09/21/2022 | FINAL EM&CP SUBMISSION | JM | JR |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10280+00 TO STA. 10295+00
EROSION AND SEDIMENT CONTROL PLAN

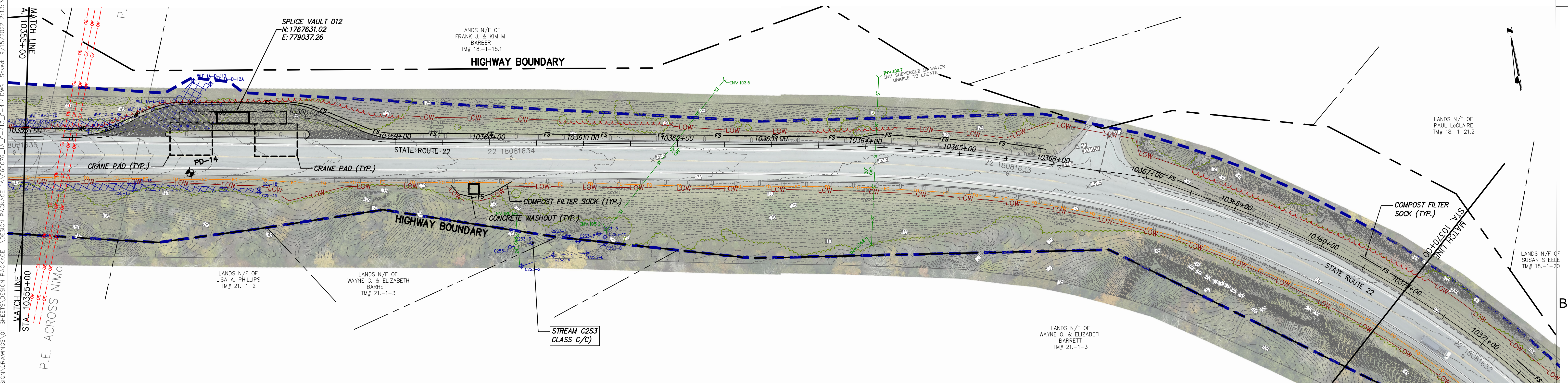
DRAWN BY: JJE DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED
REV. NO. X

KIEWIT PROJECT NO. 21162
CHA PROJECT NO. 068076
DRAWING NO. C-411





DATE 09/21/2022
SH.NO. XXX OF XXX



STA. 10340+00 TO STA. 10355+00 PLAN VIEW
SCALE: 1" = 50'



STA. 10355+00 TO STA. 10370+00 PLAN VIEW
SCALE: 1" = 50'



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP |
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| 0 | 08/21/2022 | FINAL EM&CP SUBMISSION | JM | JR |

CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 1 (PACKAGE 1A) PUTNAM TO DRESDEN
STA. 10340+00 TO STA. 10370+00
EROSION AND SEDIMENT CONTROL PLAN

KIEWIT PROJECT NO.
21162
CHA PROJECT NO.
068076
DRAWING NO.
C-413

DRAWN BY: JJE
DESIGNED BY: JTM
APPROVED BY: JPR

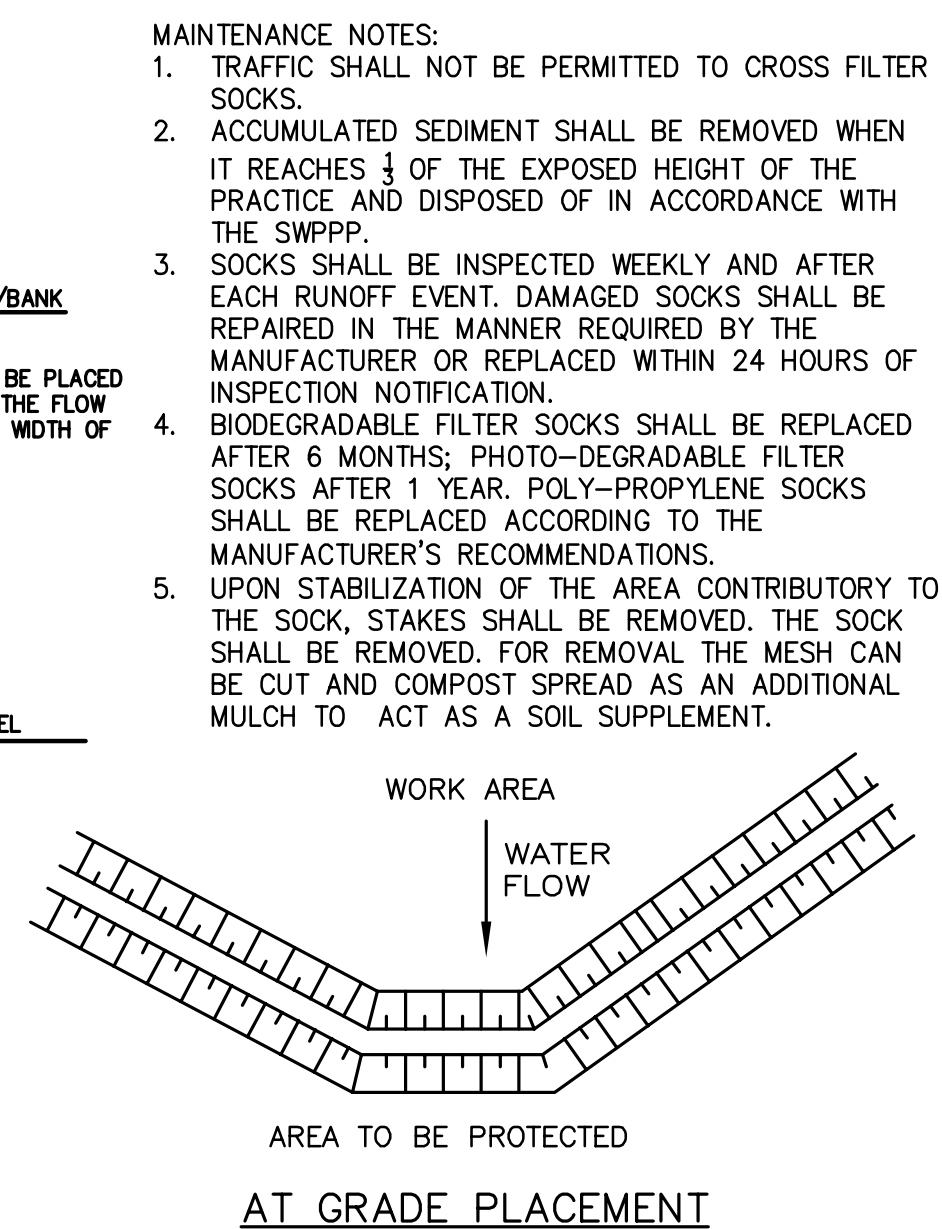
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REV. NO.

AS NOTED
DATE
X SH.NO.

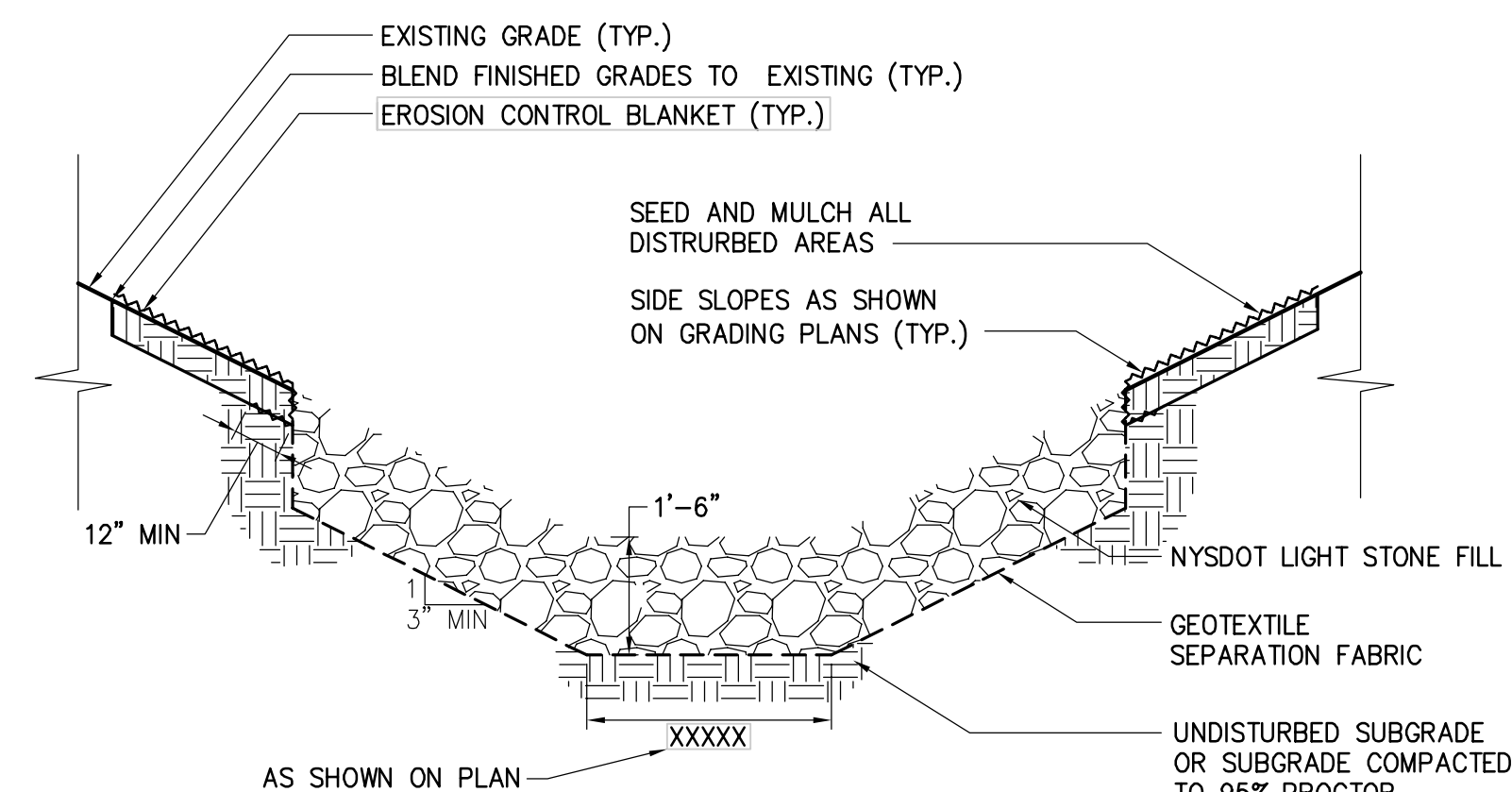
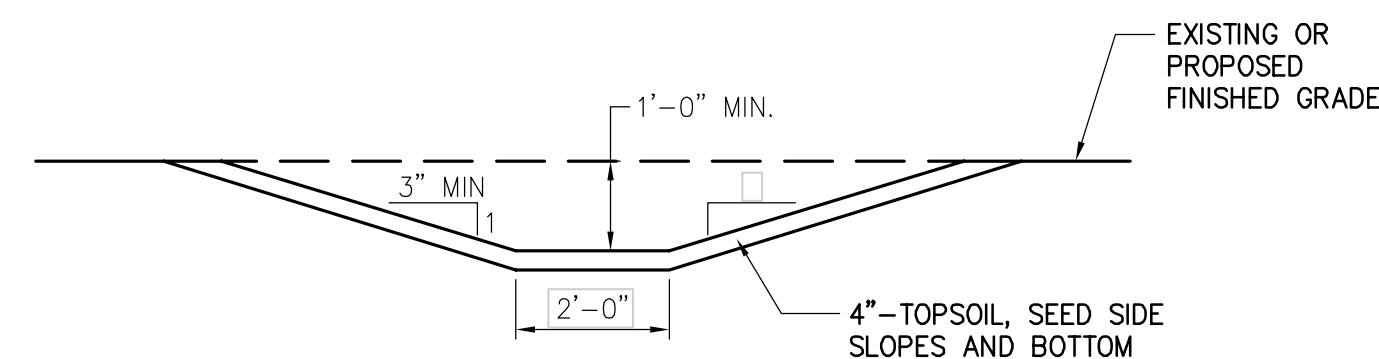
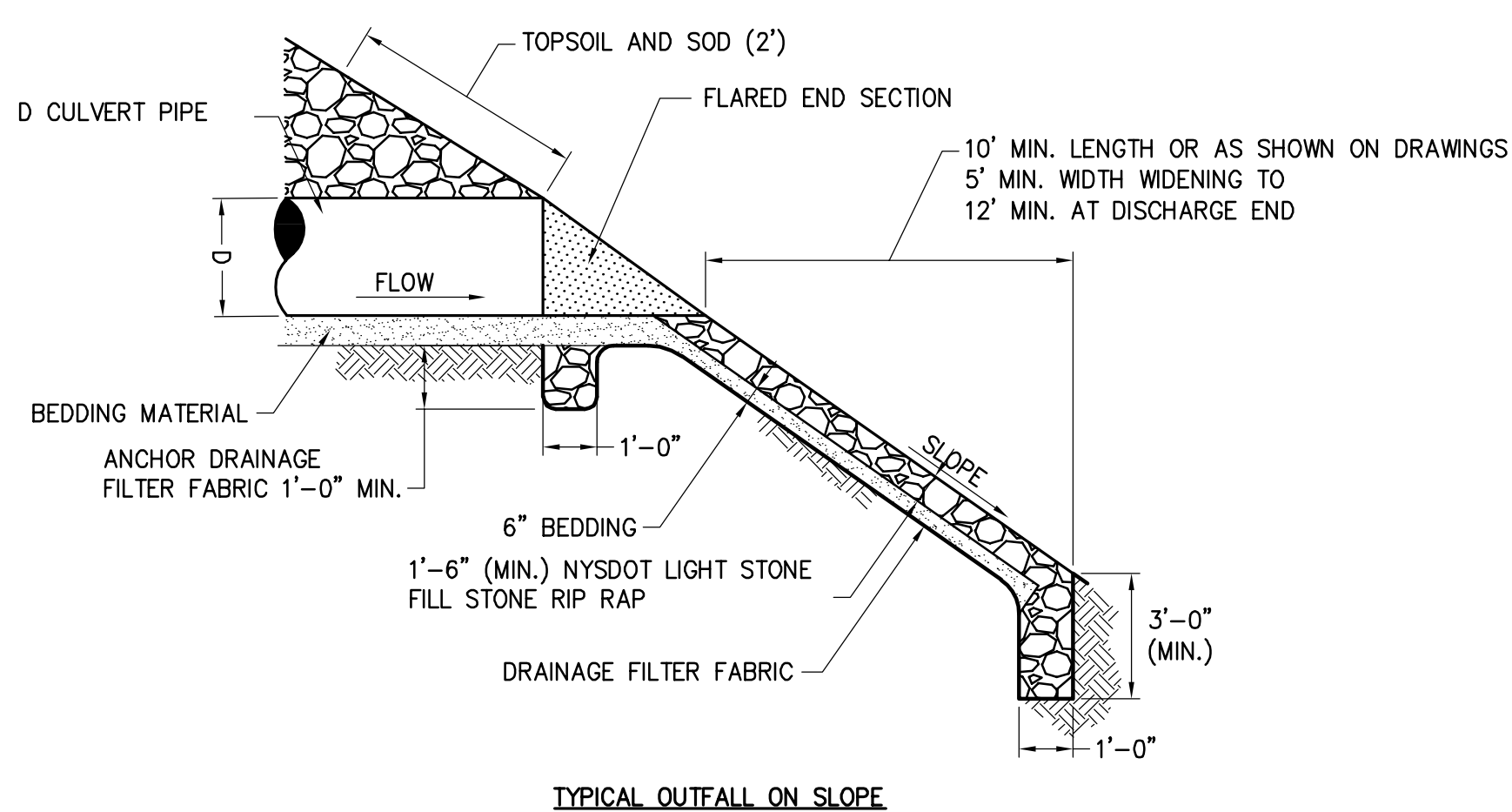
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XXX OF XXX

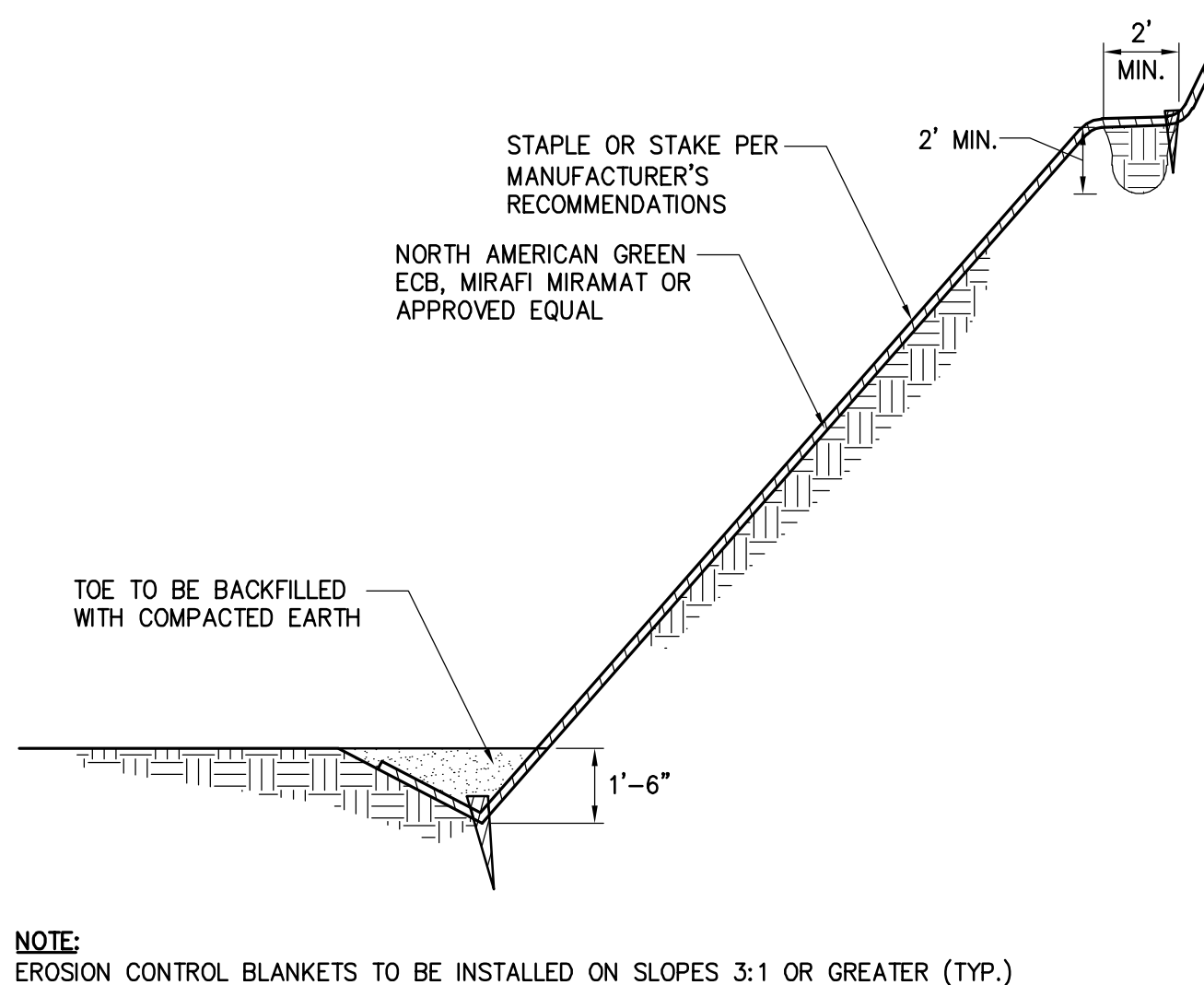


1. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS.
2. ALL FILTER SOCKS SHALL BE 12" DIAMETER OR LARGER.
3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
4. WHERE THE BERM REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
5. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE OWNERS.
6. THE COMPOST FILTER BERM WILL BE REMOVED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE OWNERS.
7. INSTALL PERPENDICULAR TO FLOW.



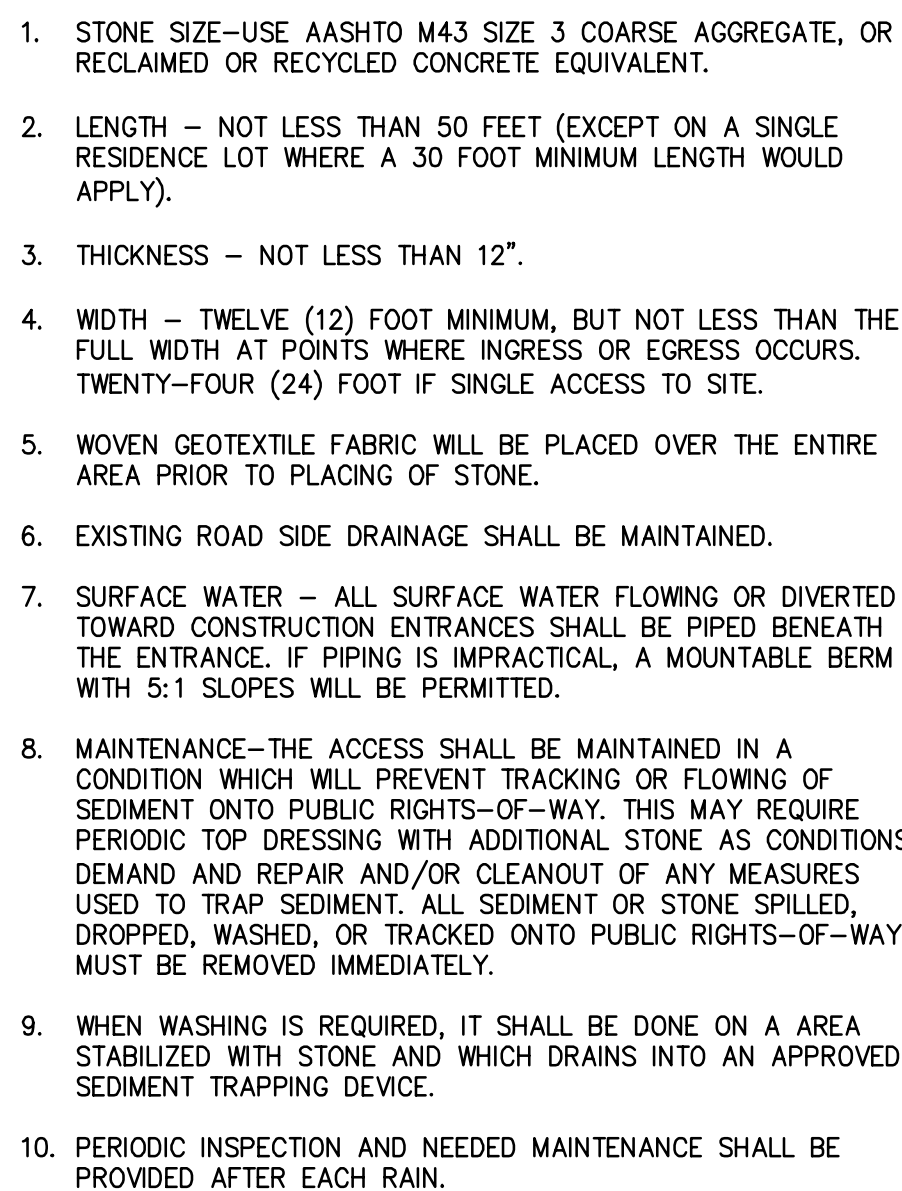
- NOTES:**
1. TIE FABRIC TO WIRE FENCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 2. IF EXTRA STRENGTH FABRIC (GREATER THAN 50#/INCH) IS USED, WIRE CAN BE DELETED IF POST SPACING IS REDUCED TO 6' O.C.
 3. AT THE ENDS OF THE FENCING THE FIRST 20' SHALL BE TURNED UP THE SLOPE 2'.
 4. POSTS SHOULD BE INCLINED TOWARD THE DIRECTION FLOW CAME FROM.
 5. OVERLAP FABRIC A MINIMUM OF 6" AND FOLDED AT JOINTS. ATTACH FILTER FABRIC TO STAKES ALLOWING EXTENSION INTO TRENCH AS SHOWN; SECURE TO STAKES AS NOTED.
 6. THE MAXIMUM AREA OF RUNOFF PER 100LF. OF FENCE SHALL NOT EXCEED 0.25 ACRES.
 7. MAINTENANCE SHALL BE PERFORMED AS NECESSARY. THE FENCING SHALL BE CHECKED AFTER EVERY STORM TO ENSURE THEIR PROPER FUNCTIONING.
 8. WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACK FILLED WITH TOPSOIL AND SEEDED.
 9. FENCING SHOULD BE PLACED AS SHOWN ON THE DRAWING OR IF NOT SHOWN, 10' BEYOND THE TOE OF THE OF THE SLOPE AND AT A SPACING IN ACCORDANCE WITH THE TABLE.
 10. EXCAVATE TRENCH AS PER DETAIL AND SET POSTS AT 10' O.C.
 11. BACKFILL WITH COMPACTED, EXCAVATED SOIL FROM TRENCH.





3 EROSION CONTROL BANK STABILIZATION DETAIL

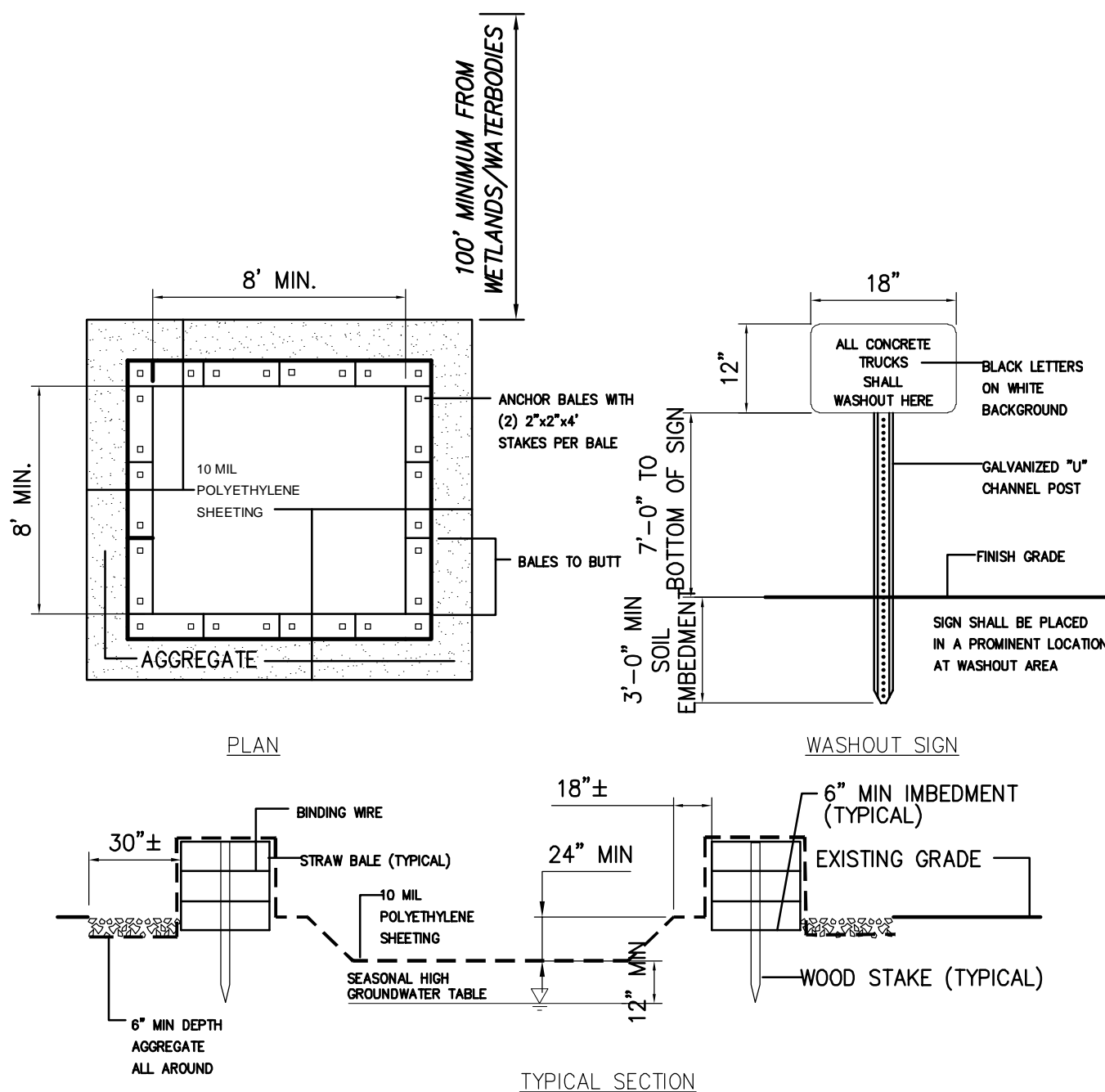
SCALE: N.T.S.



| Mechanical Properties | Test Method | Units | MARV |
|-------------------------|-------------|---|-----------------------|
| Grab Tensile Strength | ASTM D 4632 | kN (lbs) | 0.9 (205) x 0.9 (205) |
| Grab Tensile Elongation | ASTM D 4632 | % | 50 x 50 |
| Puncture Strength | ASTM D 4833 | kN (lbs) | 0.58 (130) |
| Mullen Burst Strength | ASTM D 3786 | kPa (psi) | 2618 (380) |
| Trapezoid Tear Strength | ASTM D 4533 | kN (lbs) | 0.36 (80) X 0.36 (80) |
| UV Resistance | ASTM D 4355 | % | 70 |
| Apparent Opening Size | ASTM D 4751 | Mm (US Std Sieve) | 0.180 (80) |
| Flow Rate | ASTM D 4491 | 1/min/m ² (gal/min/ft ²) | 3866 (95) |
| Permittivity | ASTM D 4491 | Sec ⁻¹ | 1.2 |

6 CONCRETE WASHOUT AREA

SCALE: N.T.S.

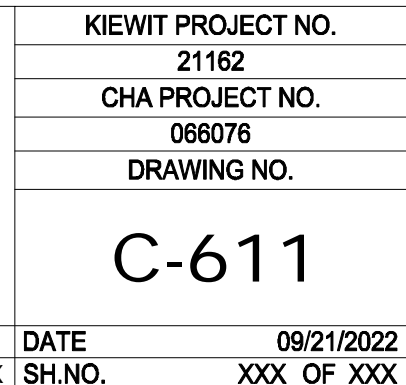


1. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHALL BE PUMPED TO A STABILIZED AREA SUCH AS A GRASS FIELD.
2. ALL ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE.
3. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL.
4. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
5. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.
6. LOCATION(S) TO BE DETERMINED IN THE FIELD BY THE OWNER'S REPRESENTATIVE



1. IN-STREAM EXCAVATION SHOULD BE COMPLETED IN ACCORDANCE WITH "TEMPORARY ACCESS WATERWAY CROSSING" ON PAGE 2.32 OF THE 2016 NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (OR NEWEST VERSION) AND THE CERTIFICATE.
2. THE CONSTRUCTION OF ANY CROSSING SHOULD NOT CAUSE A SIGNIFICANT WATER LEVEL DIFFERENCE BETWEEN THE UPSTREAM AND DOWNSTREAM WATER SURFACE ELEVATIONS. IN-STREAM WORK WILL BE PROHIBITED WITHIN COLD WATER TROUT FISHERIES FROM OCTOBER 1 TO MAY 31.
3. ALL FILL MATERIALS ASSOCIATED WITH THE ROADWAY APPROACH SHOULD BE LIMITED TO A MAXIMUM HEIGHT OF 2 FEET ABOVE THE EXISTING FLOOD PLAIN ELEVATION.
4. A WATER DIVERTING STRUCTURE SUCH AS A SWALE OR WARE BAR SHOULD BE CONSTRUCTED (ACROSS THE ROADWAY ON BOTH ROADWAY APPROACHES) 50 FEET (MAXIMUM) ON EITHER SIDE OF THE WATERWAY CROSSING. THIS WILL PREVENT ROADWAY SURFACE RUNOFF FROM DIRECTLY ENTERING THE WATERWAY. THE 50 FEET MEASURED IS MEASURED FROM THE TOP OF THE WATERWAY BANK. IF THE ROADWAY APPROACH IS CONSTRUCTED WITH A REVERSE GRADE AWAY FROM THE WATERWAY, A SEPARATE DIVERTING STRUCTURE IS NOT REQUIRED.
5. ALL CROSSINGS SHOULD HAVE ONE TRAFFIC LANE. THE MINIMUM WIDTH SHOULD BE 12 FEET WITH A MAXIMUM WIDTH OF 20 FEET.
6. ANCHORS: TIMBER MATS SHOULD BE SECURELY ANCHORED AT ONLY ONE END, USING STEEL CABLE OR CHAIN. ANCHORING AT ONLY ONE END WILL PREVENT CHANNEL OBSTRUCTION IN THE EVENT THAT FLOODWATERS FLOAT THE BRIDGE. ACCEPTABLE ANCHORS ARE LARGE TREES, LARGE BOULDERS, OR DRIVEN STEEL ANCHORS. ANCHORING SHOULD BE SUFFICIENT TO PREVENT THE TIMBER MATS FROM FLOATING DOWNSTREAM AND POSSIBLY CAUSING AN OBSTRUCTION TO THE FLOW.

SCALE: N.T.S.



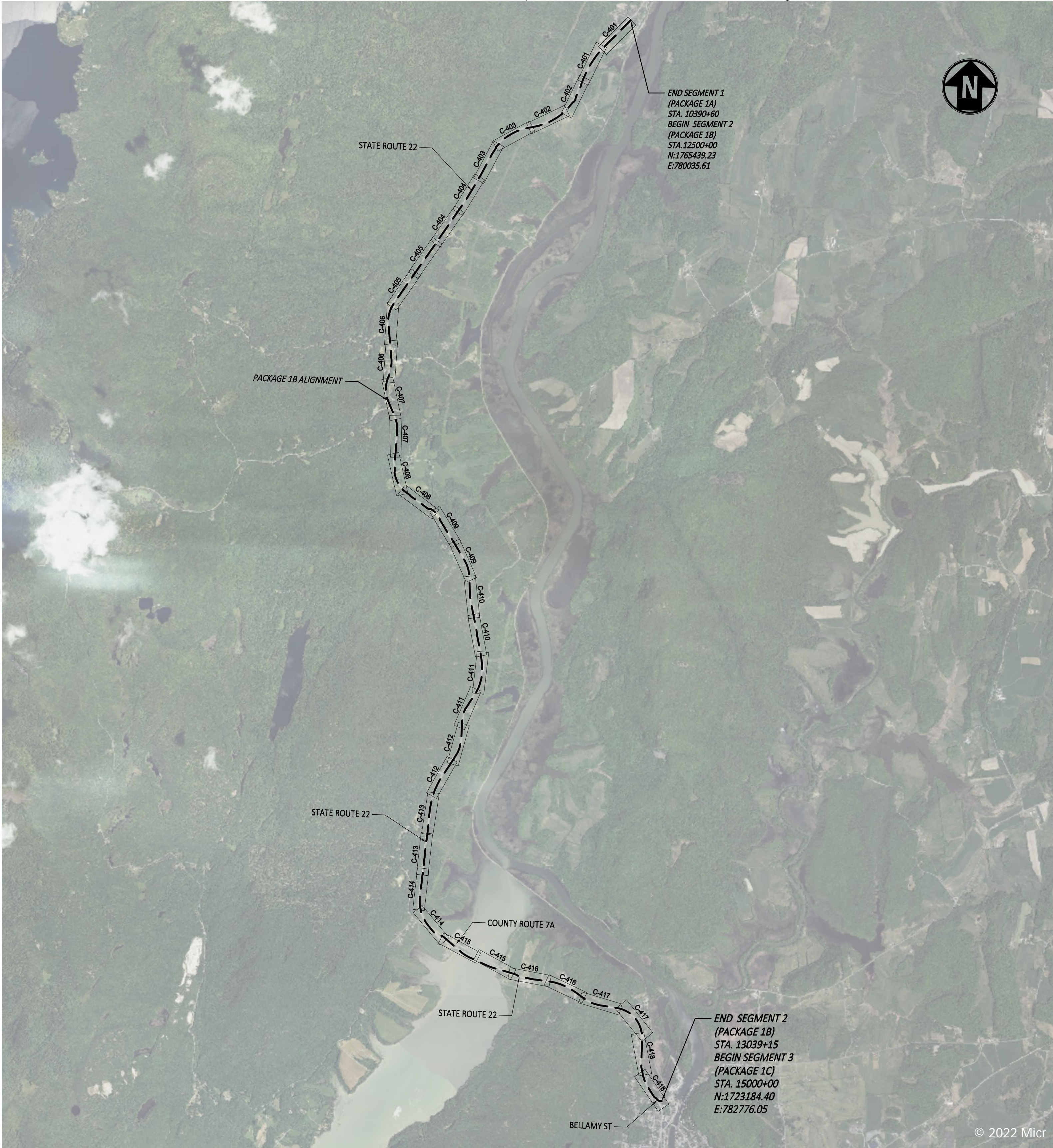
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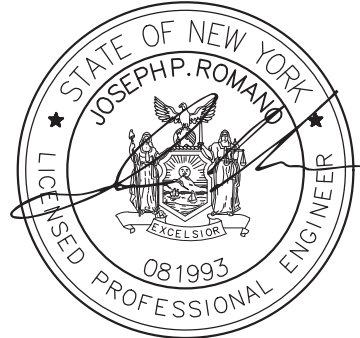
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3

4



E&S KEY MAP
SCALE: 1" = 2500'



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| 0 | 09/21/2022 | FINAL EM&CP SUBMISSION | JM | JR | |
| No. | DATE | SUBMITTAL / REVISION DESCRIPTION | DB | APP | |

**CHAMPLAIN HUDSON POWER EXPRESS
SEGMENT 2 - ROUTE 22: DRESDEN - WHITEHALL
KEYPLAN E&S**

DRAWN BY: JTM DESIGNED BY: JTM APPROVED BY: JPR SCALE AS NOTED REV. NO. X

| | |
|--------------------|------------|
| KIEWIT PROJECT NO. | 21162 |
| CHA PROJECT NO. | 066076 |
| DRAWING NO. | C-400 |
| DATE | 09/21/2022 |
| SH.NO. | XXX OF XXX |