

CLIENT

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 c/o FIRST WIND ENERGY, LLC
 129 MIDDLE STREET
 PORTLAND, MAINE 04101
 ATTN: DAVID FOWLER, DEVELOPMENT MANAGER

PREPARED BY

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 STEVE BLAKE

DATA SOURCE

TOPOGRAPHIC INFORMATION:

AERIAL SURVEY AND PHOTO, INC.
 546 AIRPORT ROAD
 P.O. BOX 659
 NORRIDGEWOCK, MAINE 04957
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2 FOOT CONTOURS DEVELOPED FROM PHOTOGRAMETRIC SURVEY BY AERIAL SURVEY AND PHOTO, INC. IN AUGUST 2009. FOR THE AREAS OUTSIDE OF THE PROPOSED ROADS AND TURBINE PADS, THE 10 FOOT CONTOUR DATA WAS OBTAINED FROM USGS TOPOGRAPHIC QUADRANGLE INFORMATION.

HORIZONTAL DATUM: 1983 NAD (1996adj.) UTM ZONE 19 US FEET

VERTICAL DATUM: 1988 NAVD US FEET

BOUNDARY INFORMATION:

PLISGA & DAY
 72 MAIN STREET
 BANGOR, MAINE 04401
 207.947.0019
 ATTN: ADAM ROBINSON

TOWER LOCATIONS:

FIRST WIND
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 BOSTON, MASSACHUSETTS 02111
 617.960.2888
 ATTN: JEFF ARMBRUSTER

WETLANDS / NATURAL RESOURCES:

STANTEC
 30 PARK DRIVE
 TOPSHAM, MAINE 04086
 207.729.1199
 ATTN: DALE KNAPP

ELECTRICAL DESIGN:

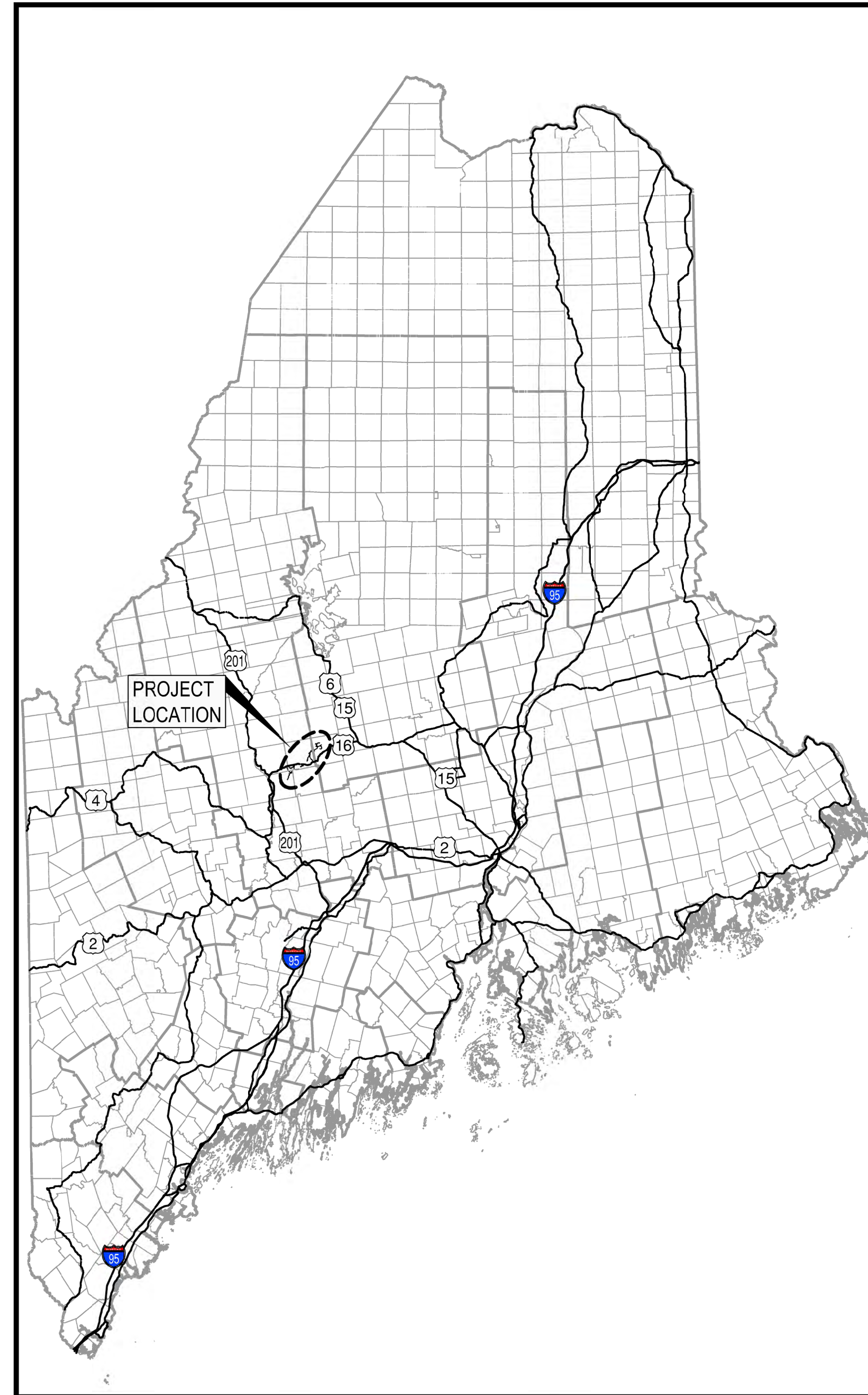
SGC ENGINEERING, LLC
 501 COUNTY ROAD
 WESTBROOK, MAINE 04092
 207.347.8100
 ATTN: TOM HENNAGHEN, P.E.

SOIL SURVEY:

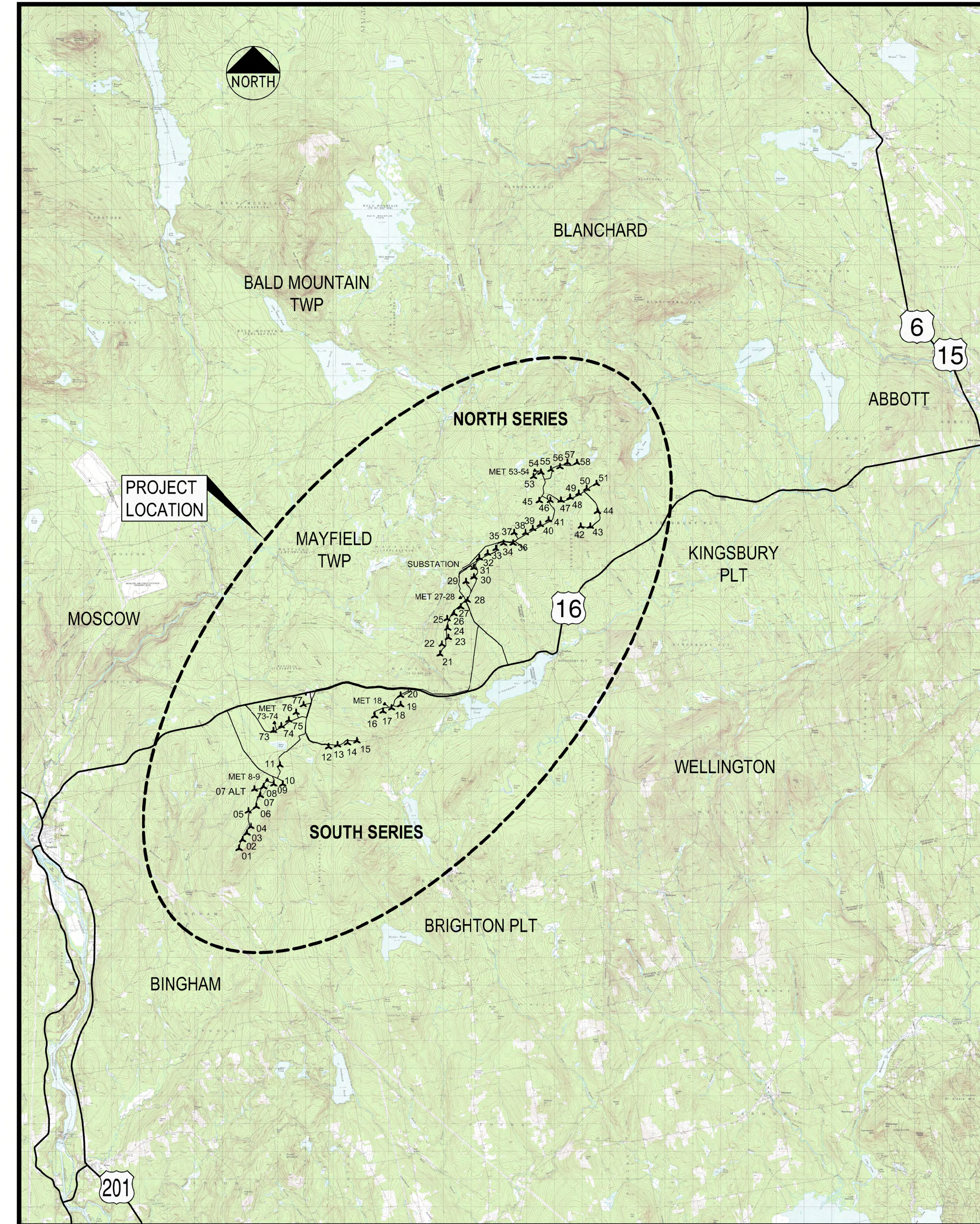
ALBERT FRICK ASSOCIATES, INC.
 95A COUNTY ROAD
 GORHAM, MAINE 04038
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 ATTN: ALBERT FRICK

BINGHAM WIND PROJECT

BINGHAM, KINGSBURY PLT, MAYFIELD TWP AND MOSCOW MAINE



LOCATION MAP
 SCALE: 1" = 24 MILES



VICINITY MAP
 SCALE: 1" = 2 MILES

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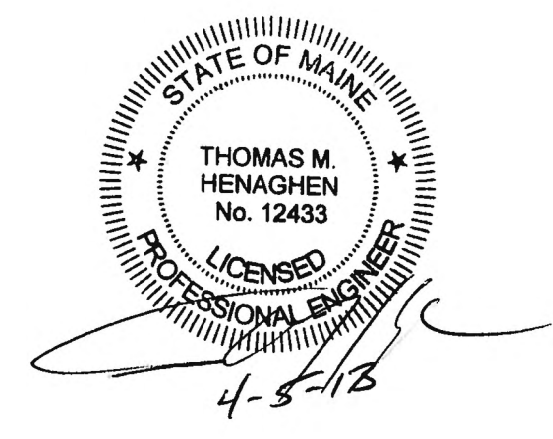
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NOTE:
 THESE PLANS REPRESENT ONLY THE TURBINE ACCESS AND CRANE PATH ROADS FOR GENERAL DELIVERY AND ERECTION OF THE WTG. SEE ADDITIONAL PLANS BY SGC ENGINEERING FOR THE TRANSMISSION SYSTEM.

THE PROJECT DRAWINGS PROVIDE ONLY A PORTION OF THE SITE WORK REQUIREMENTS. CONSTRUCTION SHALL OCCUR ONLY USING PROJECT SPECIFICATIONS PREPARED BY DELUCA-HOFFMAN ASSOCIATES, INC. OR THEIR SUBCONSULTANTS AND DRAWINGS WHICH HAVE A REVISION BLOCK INDICATING "ISSUED FOR CONSTRUCTION". AT A MINIMUM, ALL WORK SHOULD COMPLY WITH THE MAINE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. ALL MATERIALS PLACED AS PART OF THIS PROJECT SHALL BE COMPACTED TO THE PERCENT AS REQUIRED BY THE PROJECT'S GEOTECHNICAL ENGINEER.

PRELIMINARY - NOT FOR CONSTRUCTION



CIVIL COVER SHEET FOR ACCESS AND CRANE ROADS	DRAWN: []	DED: []	SCALE: []	AS NOTED: []
	DESIGNED: []	CHECKED: []	SUB: []	DATE: []
	FILE NAME: []	JOB NO.: []	NO.: []	DATE: []
	PERMIT PLAN SUBMISSION: []	ACCE REVISIONS: []	PERMIT DRAWINGS SUBMITTED FOR PROJECT TEAM REVIEW: []	DESCRIPTION: []
BINGHAM WIND PROJECT	BLUE SKY WEST, LLC			
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DH				
SHEET				
C-1.0				

GENERAL NOTES

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- 2FT CONTOURS DEVELOPED FROM PHOTOGRAMETRIC SURVEY BY AERIAL SURVEY AND PHOTO, INC. IN AUGUST 2009. FOR THE AREAS OUTSIDE OF THE PROPOSED ROADS AND TURBINE PADS, THE 10FT CONTOUR DATA WAS OBTAINED FROM USGS TOPOGRAPHIC QUADRANGLE INFORMATION. BINGHAM, BRIGHTON AND MAYFIELD TOWN LINES PROVIDED BY PLISGA & DAY LAND SURVEYORS.
- PLANIMETRIC AND TOPOGRAPHIC INFORMATION ARE SHOWN IN UTM ZONE 19, US-FEET, NAD 83. VERTICAL DATUM IS NAVD 1988 US-FEET. PROJECT BENCHMARKS TO BE PROVIDED AT TIME OF CONSTRUCTION.
- SOIL SURVEY INFORMATION PROVIDED BY ALBERT FRICK ASSOCIATES.
- NATURAL RESOURCE DATA, INCLUDING WETLAND DELINEATION BOUNDARIES AND OTHER SENSITIVE RESOURCES, PROVIDED BY STANTEC.
- COLLECTOR AND TRANSMISSION SYSTEM LAYOUT PROVIDED BY SGC ENGINEERING.
- EROSION CONTROL MEASURES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL: BEST MANAGEMENT PRACTICE", BY MEDEP, LATEST VERSION.

CLEARING AND STOCKPILING OPERATIONS

- INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE.
- ACCESS ROADS, EQUIPMENT LAYDOWN AREA, WTG ASSEMBLY AREAS, AND THE SUBSTATION AREA: CLEAR TIMBER AND BRUSH WITHIN LIMIT OF DISTURBANCE. STUMPS TO BE REMOVED IN AREAS WHERE STRUCTURES (ie ACCESS ROADS, CRANE PADS, SUBSTATION AND TURBINE AREAS) ARE PROPOSED. STUMPS SHALL BE GROUND TO GRADE OR REMOVED AND GROUND ON-SITE TO GENERATE EROSION CONTROL MIX (ECM).
- WHILE THE ENTIRE ROAD SYSTEM MAY BE CLEARED IN ONE EFFORT, THE ROADS WILL BE CONSTRUCTED IN SEGMENTS WHERE EACH SEGMENT IS GRUBBED, CONSTRUCTED AND PROTECTED PRIOR TO EARTHWORK ON THE NEXT SEGMENT AS APPROVED BY ENGINEER. THIS CONSTRUCTION SEQUENCE IS INTENDED TO PREVENT LARGE AREAS FROM BEING EXPOSED, WITHOUT TEMPORARY STABILIZATION, TO EROSION DURING MAJOR RAIN EVENTS. A SEGMENT IS DEFINED AS AN AREA CLEARED AND GRUBBED, MULTIPLE SEGMENTS IN DIFFERENT AREAS OF THE PROJECT MAY BE CONSTRUCTED CONCURRENTLY.
- RIDGE ROADS: IN FILL AREAS LESS THAN 3 FEET CLEAR, TIMBER AND BRUSH AND GRUB AS DESCRIBED IN 2 ABOVE. IN FILL AREAS EXCEEDING 3 FEET, GRUBBING AND STUMP REMOVAL IS NOT REQUIRED.
- MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME BY STAGING CONSTRUCTION AS MUCH AS PRACTICAL FOR EFFICIENT CONSTRUCTION OF THE PROJECT. WHERE FEASIBLE, CONTRACTOR OPERATIONS SHALL MAINTAIN THE NATURAL COVER MATERIAL OR USE NATURAL VEGETATIVE BUFFER STRIPS TO AID IN SEDIMENT RETENTION AND TO REDUCE THE POTENTIAL OF SOIL EROSION.
- STRIPPED TOPSOIL SHALL BE STOCKPILED ON-SITE WITHIN DISTURBED AREAS FOR USE IN STABILIZING ACCESS ROAD DITCHES AND FOR FINAL STABILIZATION OF ROAD SHOULDERS, WTG ASSEMBLY AREAS, LAYDOWN AREAS AND SLOPES. AN EROSION CONTROL BARRIER SHALL BE INSTALLED AROUND SOIL STOCKPILES THAT ARE EXPECTED TO REMAIN UNDISTURBED FOR MORE THAN 48 HOURS OR PRIOR TO A STORM EVENT. THE BARRIERS SHALL BE ADEQUATELY LOCATED AND REINFORCED TO PREVENT COLLAPSE DURING A STORM EVENT AND THE POTENTIAL SLUMPING OF THE PILE. IF NO ACTIVITY IS SCHEDULED WITHIN 30 DAYS, APPLY HAY AND/OR STRAW MULCH AS SPECIFIED HEREIN, UNLESS DIRECTED OTHERWISE. 4 INCHES OF ECM MAY ALSO BE USED. HAY/STRAW MULCH MAY ALSO BE SUPPLEMENTED BY TEMPORARY SEEDING WITH ANNUAL RYEGRASS AS SPECIFIED HEREIN FOR AREAS WHERE ADDITIONAL ACTIVITY IS NOT EXPECTED FOR SEVERAL MORE WEEKS. APPLY ANCHORED MULCH OR SUPPLEMENTAL SEEDING DURING WINTER CONSTRUCTION.
- STOCKPILE GENERATED ECM ON-SITE WITHIN DISTURBED AREAS.
- REMOVE EXCESS SPOILS FROM SITE THAT WILL NOT BE USED FOR THE FINAL DESIGN AND STABILIZATION.

CONSTRUCTION OF ACCESS ROADS, ASSEMBLY AREAS, RIDGE ROADS AND SUBSTATION

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL USE SURVEY CREWS TO ACCURATELY LOCATE ALL IMPROVEMENTS INCLUDING ROADWAY CENTERLINES AND LIMITS OF DISTURBANCE. PROVIDE ADDITIONAL STAKING AND MARKING AT LOCATIONS WHERE STORMWATER CONTROL MEASURES ARE TO BE INSTALLED.
- DUE TO DIFFERING SITE CONDITIONS, HORIZONTAL AND VERTICAL ADJUSTMENTS WITHIN PERMIT CONSTRAINTS MAY BE NECESSARY FOR PROPER CONSTRUCTION AND INTERPRETATION OF THE CONTRACT DRAWINGS. FIELD MODIFICATIONS WILL NOT CREATE ANY ADDITIONAL CLEARING/FILLING NATURAL RESOURCE IMPACTS AND WILL NOT IMPACT THE INTENT OF THE STORMWATER DESIGN. ALL CHANGES SHALL BE REFLECTED IN THE PROJECT RECORD DRAWINGS.

CONSTRUCTION OF PERMANENT STORMWATER MANAGEMENT SYSTEMS

- GRADING TO BE CONDUCTED IN ACCORDANCE WITH PERMITTED PERMANENT STORMWATER MANAGEMENT DESIGN.
- ONCE FINAL GRADES ARE ACHIEVED, EXPOSED SOIL SURROUNDING THE STORMWATER MANAGEMENT STRUCTURES SHALL BE PERMANENTLY STABILIZED AS DESCRIBED HEREIN.

CRANE PAD CONSTRUCTION

- FOLLOWING CONSTRUCTION OF THE WTG ASSEMBLY AREA SUBGRADES, BRING ASSEMBLY AREAS AND CRANE PADS TO FINISH GRADE WITH CRUSHED AGGREGATE. SPREAD AND COMPACT MATERIAL AS NECESSARY TO THE LIMITS DEPICTED ON CONTRACT DOCUMENTS. VERTICAL ADJUSTMENTS WITHIN PERMIT CONSTRAINTS MAY BE NECESSARY TO ACCOMMODATE SPECIFIC SITE CONDITIONS. ALL ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- PORTIONS OF THE WTG ASSEMBLY AREA SURROUNDING THE TURBINE GENERATOR AND THE CRANE PAD SHALL REMAIN AS A PERMANENT DISTURBANCE. ALL OTHER AREAS WITHIN THE WTG ASSEMBLY AREA SHALL BE PERMANENTLY STABILIZED AS DESCRIBED HEREIN.

CLEAN-UP AND FINAL STABILIZATION

- AT STREAM CROSSINGS, COMPLETE FINAL RESTORATION (FINISH GRADE, SEED AND MULCH) OF ALL AREAS WITHIN 100 FEET OF THE WATERBODY WITHIN 48 HOURS OF FINAL GRADING UNLESS DIRECTED OTHERWISE. ALL OTHER AREAS OF EXPOSED SOIL SHALL BE PERMANENTLY RE-VEGETATED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS SHALL BE CLEARED OF CONSTRUCTION DEBRIS AND OTHER MATERIALS.
- SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE REMOVAL OF ALL TEMPORARY WORK TRAILERS, REMOVAL OF MATERIAL AND EQUIPMENT, DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING CONSTRUCTION, ROUGH GRADING AND STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES, FILLING OF ANY EXCAVATION AND REPAIRING RUTS IN ACCESS ROADS.

WINTER CONSTRUCTION NOTES

FOR WORK PROPOSED DURING THE WINTER SEASON (TYPICALLY NOVEMBER 1 - APRIL 15), THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING PRACTICES:

- A PLAN AND SCHEDULE OF ACTIVITIES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO ANY WORK BEING DONE.
- LIMIT THE TOTAL AREA OF EXPOSED SOIL TO THAT IN WHICH EARTH WORK CAN BE COMPLETED WITHIN 15 DAYS AND MULCHED WITHIN ONE DAY PRIOR TO A PRECIPITATION EVENT.
- EXPOSED SOIL MAY BE LEFT BARE FOR NO MORE THAN 15 DAYS.
- MULCH ALL EXPOSED SOIL WHERE NO ACTIVITY IS SCHEDULED WITHIN 7 DAYS AND PRIOR TO A FORECASTED SNOW EVENT OF MORE THAN 1 INCH.
- WHERE PRACTICABLE, MULCH SHOULD BE APPLIED AT THE END OF EACH DAY'S WORK FOR AREAS THAT ARE FINAL GRADED. OTHERWISE, MULCH THE FOLLOWING DAY.
- DO NOT APPLY MULCH OVER MORE THAN 1 INCH OF SNOW.
- HAY OR STRAW MULCH SHALL BE APPLIED AT 140 LBS/1000 SF (APPROX. 4 BALES) AND SO THAT THE GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- ECM IS THE PREFERRED MULCHING MATERIAL AND SHALL BE APPLIED AT A MINIMUM 4 INCH THICKNESS WITH HIGHER AMOUNTS AS DESCRIBED HEREIN.

- ECM IS THE PREFERRED EROSION CONTROL BARRIER. IF ECM IS NOT AVAILABLE, INSTALLATION OF SILT FENCE ON FROZEN GROUND MAY BE MODIFIED FROM ILLUSTRATIONS AND DETAIL DRAWINGS TO SUBSTITUTE SIX INCHES OF SUITABLE NON-ORGANIC MATERIAL OVER THE BOTTOM OF THE SILT FENCE IN LIEU OF TRENCHING AND BACKFILLING FABRIC.
- A DOUBLE ROW OF EROSION CONTROL BARRIER WILL BE USED WHERE REQUIRED WITHIN 100 FEET OF WETLANDS AND WATER BODIES.
- INSPECTION OF EROSION CONTROL MEASURES AND ANY NEEDED REPAIR/REPLACEMENT OF WHICH SHALL OCCUR EACH DAY.
- PERMANENT SEEDING IS NOT REQUIRED DURING THE WINTER SEASON. HOWEVER, IF DONE, THE CONTRACTOR SHALL FOLLOW PROCEDURES FOR DORMANT SEEDING. THE PERMANENT SEED MIX SHALL BE APPLIED AT THREE TIMES THE STANDARD RATE AND MULCHED. RE-VEGETATION SUCCESS MUST BE INSPECTED BY THE CONTRACTOR IN THE FOLLOWING SPRING (AFTER APRIL 15) AND RE-SEEDING AS NECESSARY IF VEGETATIVE COVER IS LESS THAN 75 PERCENT. ACCEPTANCE OF DORMANT SEEDING AS SUCCESSFUL WILL NOT OCCUR UNTIL AFTER JUNE 1 OF THE FOLLOWING YEAR.

GRAVEL SURFACE SPECIFICATION

THE TYPICAL GRAVEL SURFACE MATERIAL TO BE USED ON THIS PROJECT SHALL CONSIST OF 12" - 24" OF PROCESSED BLAST ROCK SIMILAR TO AN MDOT TYPE D OR AS APPROVED BY ENGINEER.

SOIL HYDROLOGY NOTE

TO THE EXTENT POSSIBLE, EXISTING DRAINAGE FEATURES HAVE BEEN IDENTIFIED AND ARE SHOWN ON THESE DRAWINGS.

WHERE DRAINAGE FEATURES ARE IDENTIFIED DURING CONSTRUCTION THAT WERE NOT LOCATED ON THE PLANS, THE PROJECT'S FIELD ENGINEER AND CIVIL SUPERINTENDENT MAY BE REQUIRED TO REVIEW THESE AREAS WITH THE PROJECT'S WETLAND/SOIL SCIENTIST EXPERT AND/OR DESIGN ENGINEER TO DETERMINE THE APPROPRIATE PROJECT DETAIL TO BE EMPLOYED AT SUCH AREAS.

TEMPORARY CONSTRUCTION ROADS AND ALIGNMENT ADJUSTMENTS

A TEMPORARY UPLAND CONSTRUCTION ROAD MAY BE CLEARED TO A MINIMUM WIDTH TO ALLOW PASSAGE OF CONSTRUCTION EQUIPMENT AND WILL REQUIRE NO OTHER IMPROVEMENTS THAN REMOVAL OF LARGE ROCKS, STUMPS, AND BRUSH AND LIMITED EARTH CUTTING AND FILLING TO FACILITATE VEHICULAR PASSAGE. PREVIOUSLY USED LOGGING ROADS WILL FOLLOW THE NATURAL GROUND CONTOURS WHEN PRACTICAL AND STANDARD EROSION CONTROL MEASURES DESCRIBED IN THE EROSION AND SEDIMENT CONTROL REPORT PLAN WILL BE UTILIZED ALONG THESE AREAS. CORDUROY ROAD, GEOTEXTILES, AND ROCK SANDWICH CONSTRUCTION MAY BE USED IN AREAS WHERE POOR SOIL CONDITIONS EXIST.

WHEN TEMPORARY UPLAND CONSTRUCTION ROADS ARE CONSTRUCTED ALONG THE PROPOSED ROADWAY ALIGNMENT, THE ALIGNMENT WILL BE CLEARED TO A MAXIMUM 40-FOOT WIDTH AND CONSTRUCTED AS DESCRIBED ABOVE. THIS WILL ALLOW FOR ADVANCEMENT OF CONSTRUCTION ACTIVITIES ALONG THE ROUTE AND SLIGHT HORIZONTAL SHIFTS OR VERTICAL ADJUSTMENTS TO THE FINAL ROADWAY ALIGNMENT PRIOR TO COMPLETING FINAL CLEARING ACTIVITIES.

IMPLEMENTATION

SUBSEQUENT TO CLEARING, THE ALIGNMENT WILL BE STAKED OUT AT 50-FOOT CENTERS AND WALKED BY THE OWNER, THE GEOTECHNICAL ENGINEER, AND THE CONTRACTOR TO AGREE ON THE FOLLOWING:

- CONFIRMATION OR RECOMMENDED ADJUSTMENT OF HORIZONTAL AND VERTICAL ALIGNMENT;
- SELECTION OF CROSS SECTION TO BE USED IN THE AREA;
- LOCATIONS FOR CROSS CULVERTS; AND
- OTHER TOOLS TO BE EMPLOYED.

IT WILL BE NECESSARY FOR THIS EFFORT TO PRECEDE CONSTRUCTION BY A SUFFICIENT PERIOD OF TIME IN ORDER THAT ADJUSTMENTS CAN BE MADE AND THE CONTRACTOR CAN HAVE FINAL CLEARING, BLASTING, AND PROPER MATERIALS ON HAND.

REVEGETATION NOTES

UPON COMPLETION OF ROADSIDE CUT AND FILL GRADING WHERE EROSION CONTROL MIX MATERIAL HAS BEEN PLACED AS THE FINAL SURFACE TREATMENT, SEED MIX IS TO BE SPARSELY BROADCAST SPREAD OVER THE EROSION CONTROL MIX. SEED IS TO BE DISPERSED IN LATE SUMMER/EARLY FALL WHEN GROUND CONDITIONS ARE SUFFICIENTLY MOIST, FOLLOWED BY A SECOND, LIGHTER APPLICATION IN LATE FALL. AN INSPECTION OF SEEDED AREAS IS TO BE CONDUCTED IN THE FOLLOWING LATE SUMMER TO ENSURE ADEQUATE SEEDING ESTABLISHMENT.

AT THE END OF THE PROJECT ONCE THE WIDE TRAVEL SURFACES ARE NO LONGER NEEDED THE SAME SEEDING REQUIREMENTS NOTED ABOVE ARE TO BE APPLIED TO ACCESS ROADS IN SELECT AREAS WITHIN THE MAYFIELD POND WATERSHEDS. REFER TO DETAILS FOR CRANE ROAD REVEGETATION LIMITS. EXCEPT FOR A 24" GRAVEL ACCESS WAY, 10'X75' CRANE PAD, 25' DIAM. FOUNDATION, AND 16' GRAVEL RING TO REMAIN ACROSS TURBINE PADS, THE PADS ARE TO BE SCARIFIED COVERED WITH 4-INCHES OF EROSION CONTROL MIX AND SEEDED WITH SEED MIX AS NOTED ABOVE.

IN THE EVENT VEGETATION DOES NOT BECOME ESTABLISHED IN ANY OF THE ABOVE NOTED AREAS ADDITIONAL EROSION CONTROL MIX IS TO BE ADDED AND ADDITIONAL SEED MIX BROADCAST EACH LATE SUMMER/EARLY FALL UNTIL VEGETATION BECOMES ESTABLISHED. THOSE AREAS IN WHICH VEGETATION DOES NOT BECOME ESTABLISHED WITHIN THREE YEARS WILL BE INDIVIDUALLY ASSESSED TO DETERMINE IF SOIL MOISTURE, SEED, AND GROWING CONDITIONS (E.G., DEPTH OF ORGANIC MATERIAL, SUN EXPOSURE) ARE SUITABLE. BASED ON THAT REVIEW, REASONABLE MODIFICATIONS, INCLUDING DIRECT TRANSPLANTING OF SEEDLINGS IF NECESSARY, WILL BE UNDERTAKEN TO CORRECT DEFICIENCIES.

PAD AREAS AND PAD / ROAD AREAS CONSTRUCTED WITH BLAST ROCK WILL NOT REQUIRE ECM OR LOAM AND SEED. THESE AREAS WILL BE ALLOWED TO REVEGETATE NATURALLY.

Side Slope Treatment Option	Recommended Maintenance Procedure
Loam and Seed with Mulch and Mesh	- Mowing. - Replacement of washout areas.
Erosion Control Mix with Mesh	- Replacement of lost Erosion Control Mix.
Stone Face	- Washing to remove sediment. - Replacing displaced stone. - Filling gaps with new stone.
Reinforced Turf or Reinforced Erosion Control Mix	- Mowing. - Replacement of damaged/removed reinforcement.
Rip Rap	- Removal of sediment. - Replacing displaced stones. - Filling gaps with new stone.
Alternate Fill with Reinforcement	- Mowing. - Repairation of damaged mesh.
Reinforced Embankment	- Removal of larger vegetation.
Rock Face	- Remove loose rock from rock face. - Stabilize deteriorated areas.

AREA	TURBINE / PMT	NORTHING	EASTING	PROP. ELEV AT TURBINE
	1	16368559.31	1435863.89	1525.0
	2	16369588.52	1436293.97	1482.8
	3	16370374.46	1436790.86	1432.1
	4	16371162.99	1437283.59	1456.5
	5	16372992.84	1436952.84	1400.3
	6	16373525.11	1437933.14	1465.4
	7	16374824.25	1438400.19	1492.0
	7ALT	16375583.75	1437704.23	1479.6
	8	16375872.46	1438781.71	1520.3
	9	16376184.10	1439944.75	1502.0
	10	16376603.06	1440979.05	1528.8
	11	16378440.41	1440658.96	1472.4
	12	16380727.20	1446343.18	1489.9
	13	16380982.59	1447429.77	1510.0
	14	16381191.97	1448595.17	1540.9
	15	16381401.41	1449760.89	1538.8
	16	16384257.90	1451897.09	1487.7
	17	16384815.64	1452863.13	1568.2
	18	16385197.16	1453911.34	1582.8
	19	16385578.67	1454959.55	1602.8
	20	16386677.21	1455153.25	1602.3
	73	16382518.70	1439911.66	1397.9
	74	16383076.45	1440877.69	1428.8
	75	16383764.16	1441756.86	1420.5
	76	16384677.61	1442610.99	1406.0
	77	16385591.80	1443463.49	1378.5
	PMT 8-9	1637612.67	1439179.86	1499.7
	PMT 18	16385694.20	1453046.81	1557.9
	PMT 73-74	16383442.17	1440022.96	1430.8
	21	16391597.46	1459665.35	1397.8
	22	16392752.02	1459889.78	1451.3
	23	16393540.79	1460678.54	1530.1
	24	16394654.58	1460605.33	1512.8
	25	16395767.68	1460532.38	1465.9
	26	16396366.29	1461331.78	1469.3
	27	16397155.06	1462120.54	1495.0
	28	16397943.83	1462909.31	1507.1
	29	16400171.95	1462722.56	1523.7
	30	16400744.02	1463539.56	1606.2
	31	16401923.49	1463736.89	1502.3
	32	16402963.60	1464326.83	1505.1
	33	16403521.34	1465292.87	1509.4
	34	16404079.09	1466258.90	1492.0
	35	16404699.45	1467186.34	1524.6
	36	16404712.25	1468302.97	1584.1
	37	16405804.98	1468527.01	1603.2
	38	16405957.32	1469767.69	1705.7
	39	16406440.85	1470640.01	1725.5
	40	16406924.39	1471512.34	1767.9
	41	16407482.13	1472478.37	1699.3
	42	16406714.81	1476318.50	1581.1
	43	16406714.81	1477433.99	1603.9
	44	16408472.99	1478256.00	1598.0
	45	16409749.86	1471403.59	1597.5
	46	16409775.88	1472687.81	1648.1
	47	16409798.31	1473973.04	1681.9
	48	16410157.57	1475029.15	1711.8
	49	16410623.63	1476042.15	1630.0
	50	16411181.37	1477008.19	1591.7
	51	16411777.00	1478147.57	1554.7
	53	16412604.41	1470724.77	1605.5
	54	16413103.10	1471588.52	1606.7
	55	16413442.00	1472750.48	1552.6
	56	16413762.37	1473853.17	1554.6
	57	16414261.05	1474716.92	1535.7
	58	16414261.05	1475832.41	1460.7
	PMT 27-28	16398264.72	1462059.27	1492.8
	PMT 53-54	16413333.12	1470880.07	1597.7

LEGEND

- PARCEL BOUNDARY
- 2 FOOT CONTOUR
- 10 FOOT CONTOUR
- SPOT GRADE
- CULVERT
- PAVED SURFACE
- GRAVEL SURFACE
- TREE LINE
- TEST PIT / BORING
- ROCK OUTCROP
- BORROW AREA
- HIGH INTENSITY SOIL LINE
- SCS LINE
- CEMETERY
- DELINEATED WETLAND
- NORTHERN SPRING SALAMANDER 250' STREAM BUFFER
- SIGNIFICANT VERNAL POOL
- SIGNIFICANT VERNAL POOL BUFFER
- STREAM
- NATURAL RESOURCES DELINEATION LIMIT
- PROPOSED
- BUILDING
- ROAD ALIGNMENTS
- LAYDOWN AREA
- TURBINE LOCATION
- MET TOWER
- PERMANENT
- TEMPORARY
- CRANE PAD
- LIMIT OF CLEARING
- RESTRICTED CLEARING BUFFER AREA
- LAND MANAGEMENT ROAD ACCESS POINT
- ROADSIDE BUFFER
- DITCH TURNOUT BUFFER
- LEVEL LIP SPREADER BUFFER
- CULVERT
- REVEGETATED AREA
- CHAIN LINK FENCE
- 2 FOOT CONTOUR
- 10 FOOT CONTOUR
- UTILITY POLE
- COLLECTION / TRANSMISSION SYSTEM - OVERHEAD LINE
- COLLECTION SYSTEM - UNDERGROUND LINE
- JUNCTION BOX

PERMIT PLAN SUBMISSION	04.09.13
ACOE REVISIONS	03.06.13
PERMIT DRAWINGS SUBMITTED FOR PROJECT TEAM REVIEW	12.19.12
DATE	

GENERAL NOTES AND LEGEND

AS NOTED
SEPT 2012
3048

DEED SCALE
DESIGNED
CHECKED
FILE NAME

3048-GENERAL NOTES
L.C. # 11095

PROFESSIONAL ENGINEER
LICENSED PROFESSIONAL ENGINEER
P.E. STEVEN J. BLAKE II

BINGHAM WIND PROJECT

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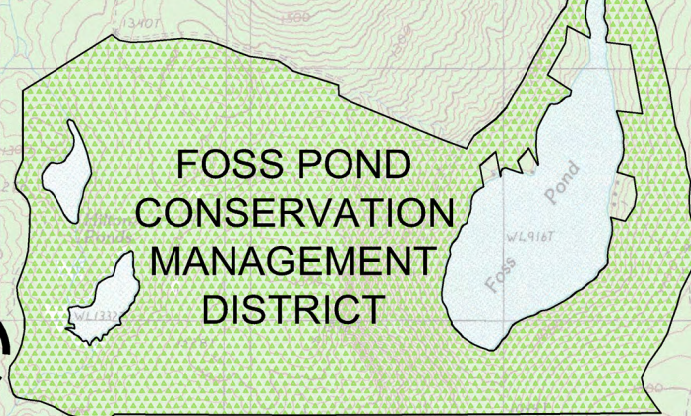
RLE R.T.E.D.
REGISTERED PROFESSIONAL ENGINEER

DH

SHEET

C-2.0

PRELIMINARY - NOT FOR CONSTRUCTION



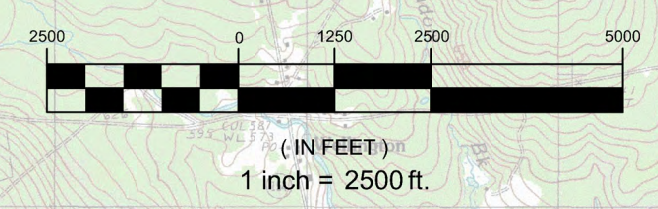
NORTH PLAN AREA
SEE SHEETS C-N1.00 TO C-N2.00

COLLECTION SYSTEM PLAN AREA
SEE SHEETS CL-1.01 TO CL-1.07

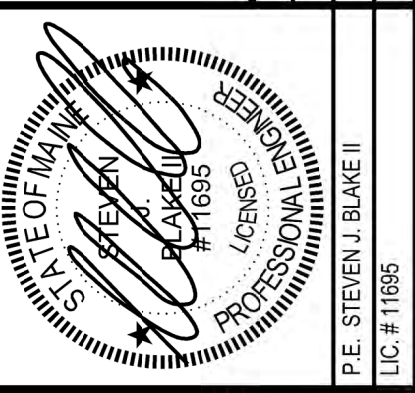
PROPOSED TRANSMISSION SYSTEM - SEE PLANS BY OTHERS

SOUTH PLAN AREA
SEE SHEETS C-S1.00 TO C-S2.00

PRELIMINARY - NOT FOR CONSTRUCTION



OVERALL ORIENTATION MAP



BINGHAM WIND PROJECT
BLUE SKY WEST, LLC



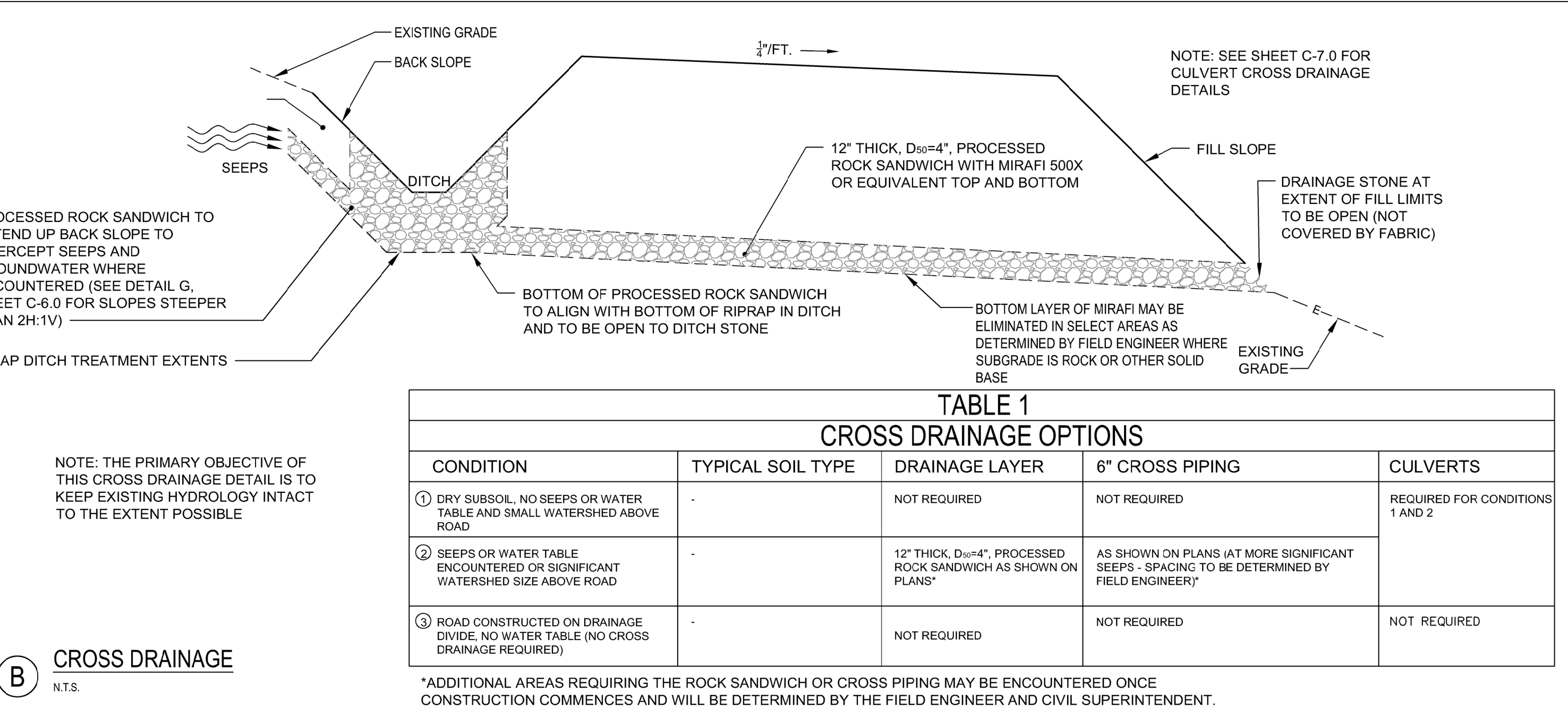
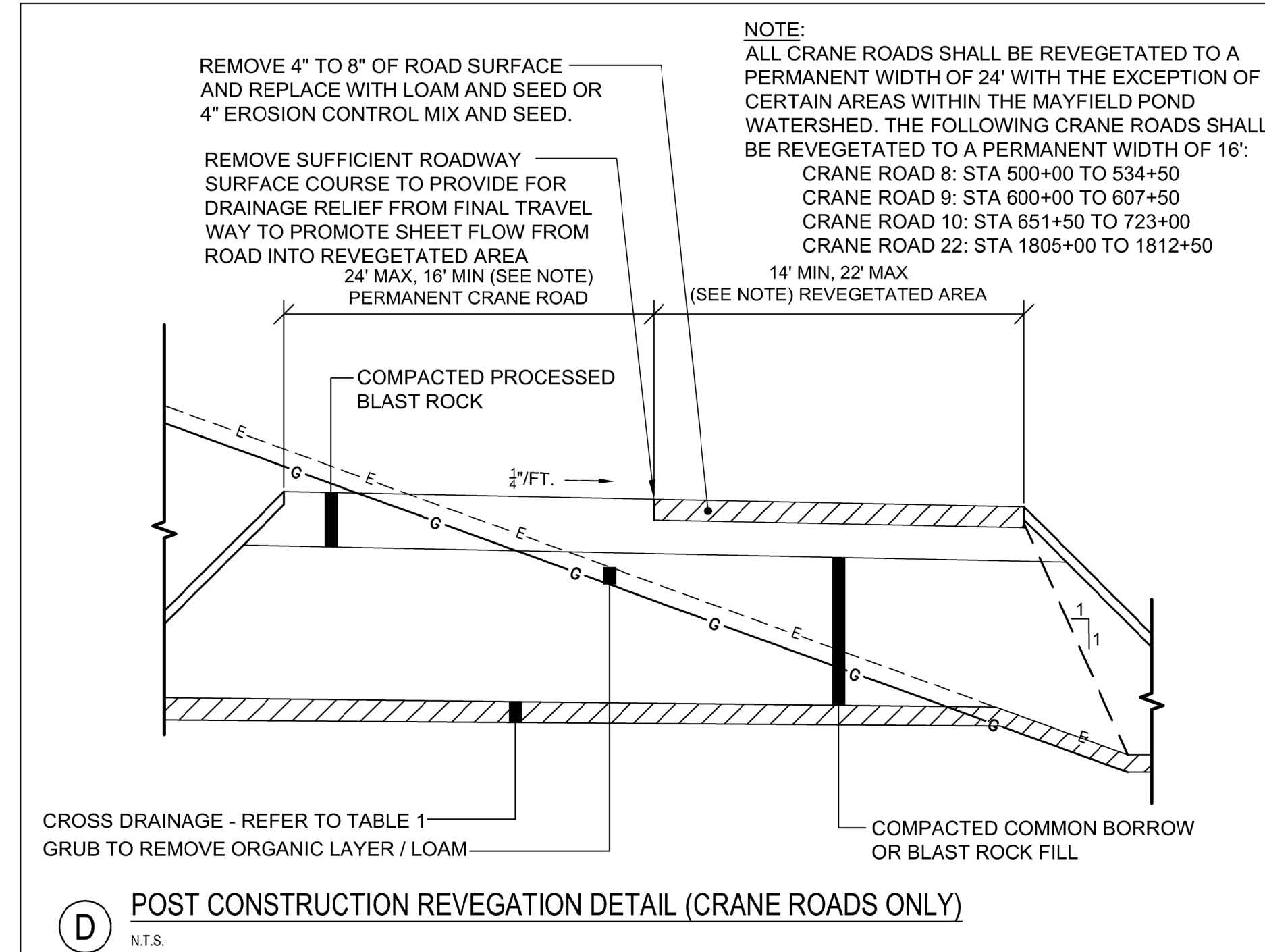
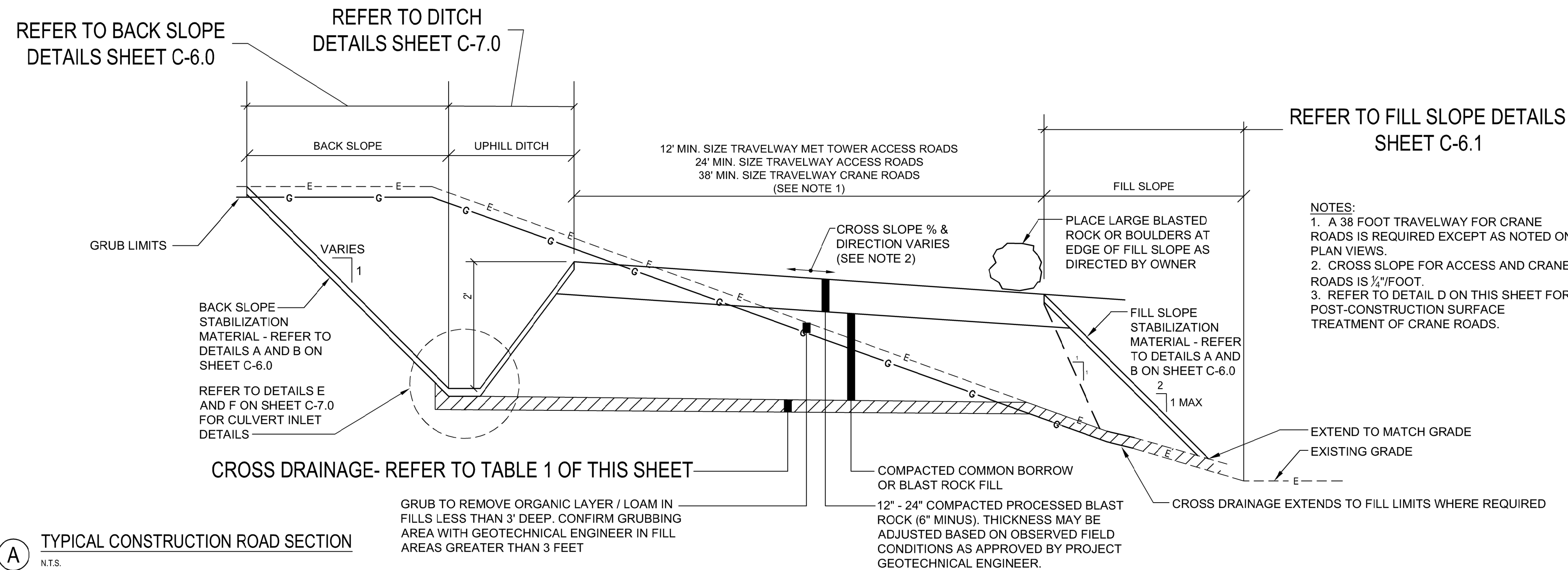
DeLuca-Hoffman Associates, Inc.
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SHEET

C-3.0

NO.	DATE	DESCRIPTION
1	12.19.12	PERMIT DRAWINGS SUBMITTED FOR PROJECT TEAM REVIEW
2	03.06.13	ACOE REVISIONS
3	04.09.13	PERMIT PLAN SUBMISSION

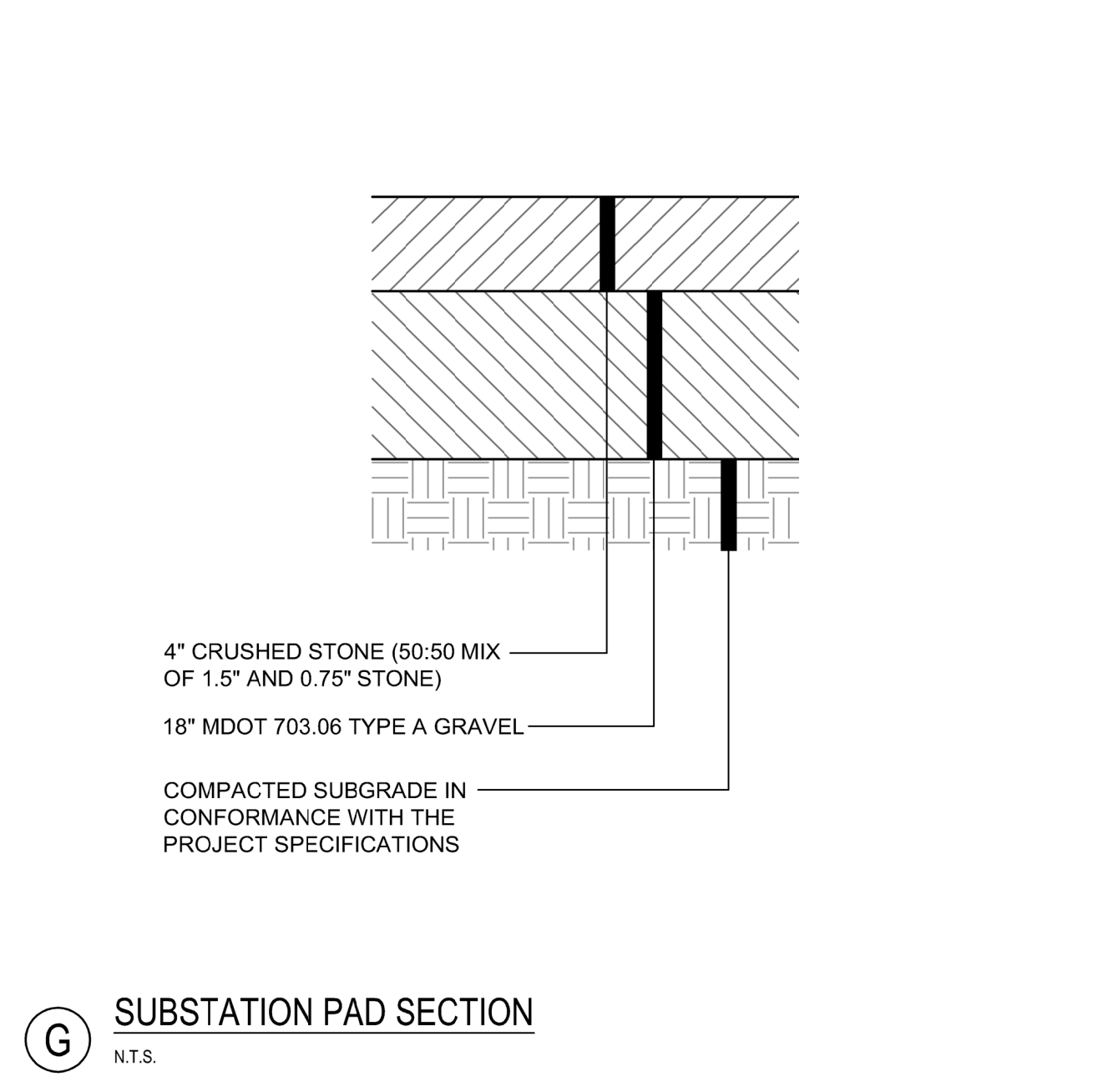
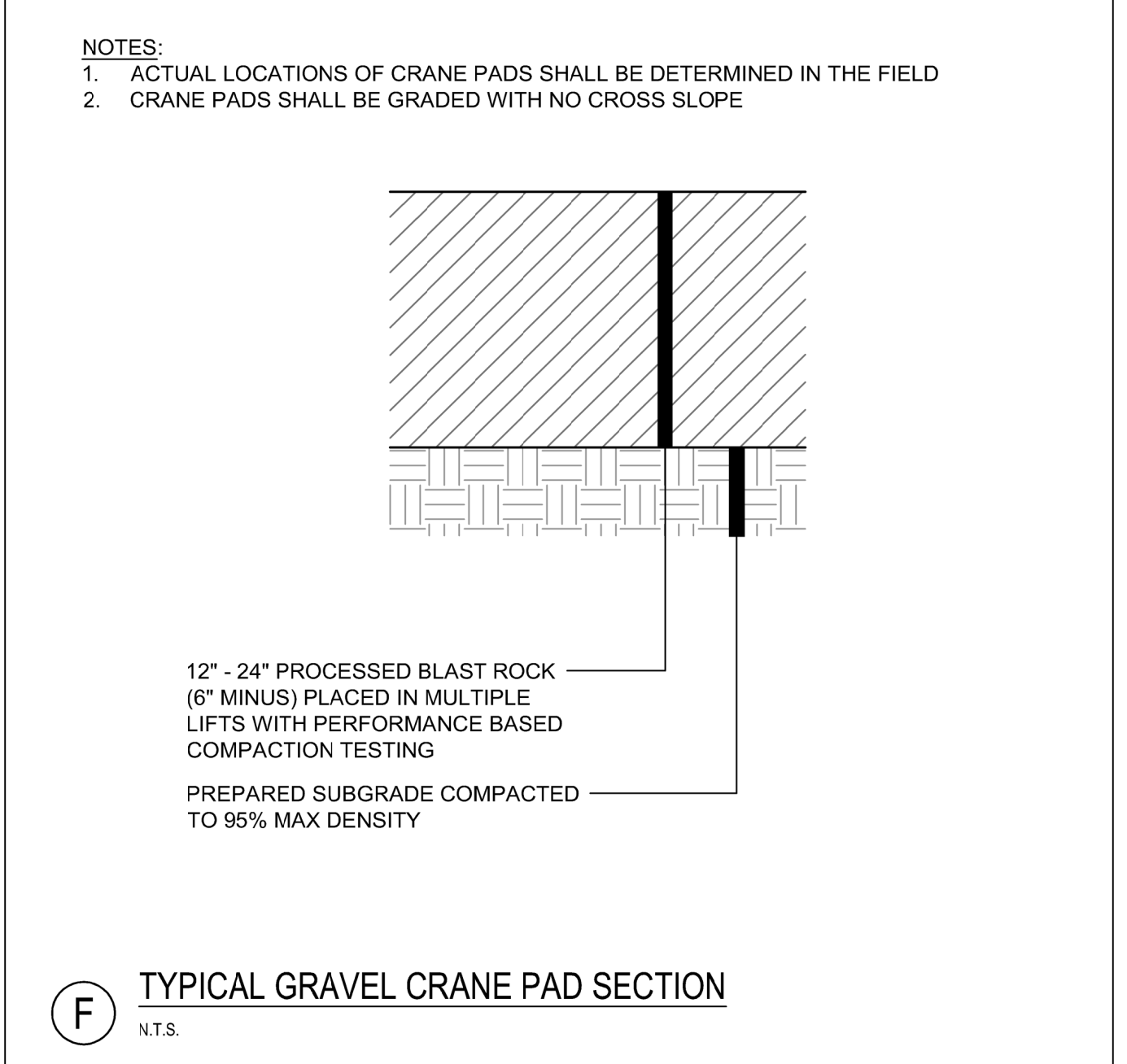
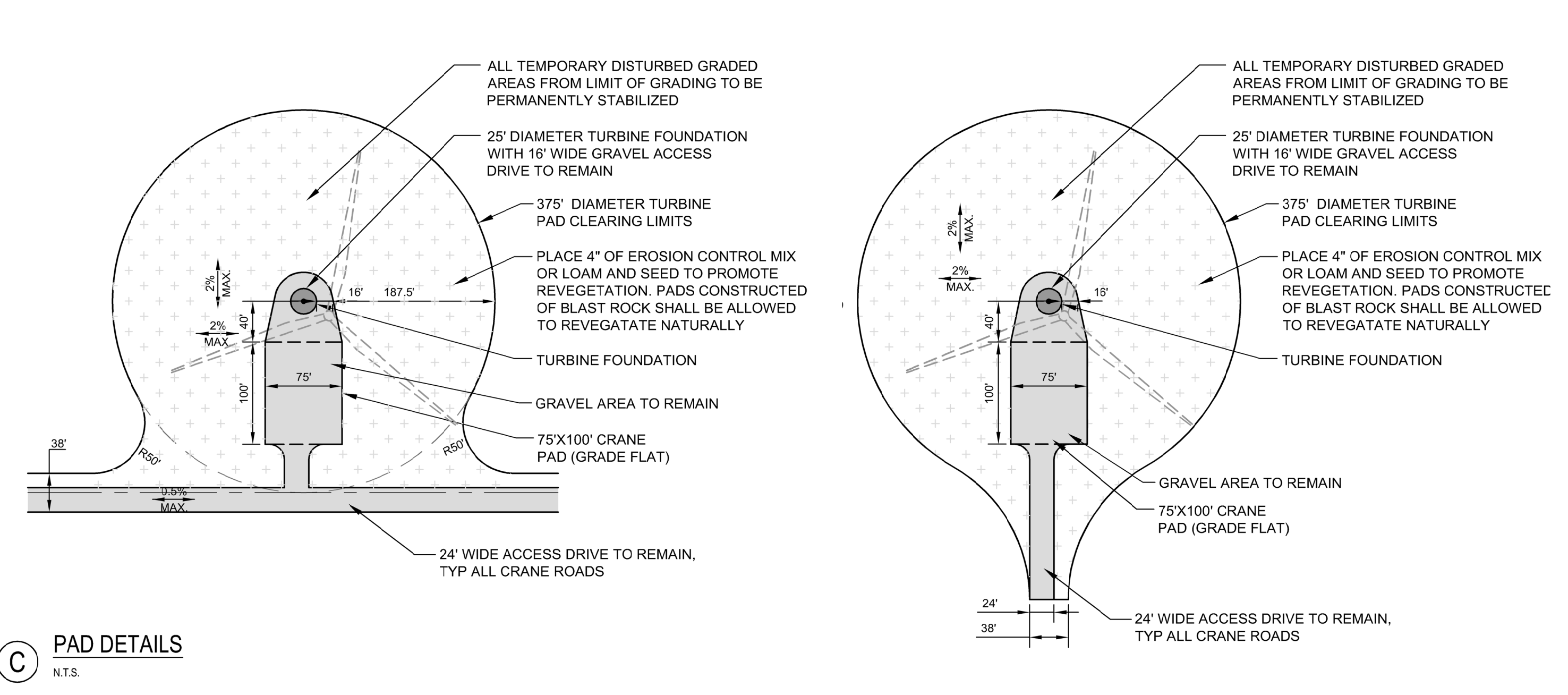
R:\3048-Bingham Wind Farm\Cadd\Permit Set\dwg\3048-BASE.dwg dsdavis 4/9/2013 10:28 AM



GENERAL ROADWAY CROSS SECTION NOTES (APPLICABLE TO ALL SECTIONS):

1. ALL PROPOSED ROADWAY GRADES, CUTS, FILLS AND SLOPES SUBJECT TO FINAL GEOTECHNICAL INVESTIGATION PRIOR TO CONSTRUCTION.
2. ROADWAY PROCESSED BLAST ROCK TO EXTEND TO EDGE OF THE DITCH/FILL SLOPE.
3. MAXIMUM LIFT THICKNESS AND COMPACTION SHALL BE PERFORMED BASED AND COORDINATED WITH THE PROJECT GEOTECHNICAL ENGINEER.
4. ROAD AREA SHALL BE GRUBBED A MINIMUM OF 6 INCHES BELOW EXISTING GRADE AND TO A DEPTH SUFFICIENT TO REMOVE ALL ORGANICS. BRING TO SUBGRADE WITH COMMON BORROW OR SUITABLE BLAST ROCK FILL. IN FILL AREAS GREATER THAN 3 FEET CONFIRM GRUBBING REQUIREMENTS WITH PROJECT GEOTECHNICAL ENGINEER.
5. GEOTEXTILE FABRIC TO BE PLACED BENEATH ROAD SUBBASE IN AREAS OF WEAK OR UNSTABLE SUBGRADE.
6. LIMIT ROADWAY CLEARING TO THE EXTENT PRACTICABLE. TYPICALLY, CLEARING SHOULD BE LIMITED TO 10 FEET FROM THE BOTTOM OF FILL SLOPES AND 5 FEET FROM THE TOP OF CUT SLOPES.
7. IN AREAS WHERE EXISTING ROADS ARE BEING IMPROVED, RE-CONSTRUCTED OR WIDENED, THE CONTRACTOR IS TO VERIFY THE ADEQUACY OF ROADWAY BASE AND SURFACE MATERIALS. IF EXISTING MATERIAL IS FOUND TO BE INADEQUATE OR OF INSUFFICIENT DEPTH, EXISTING ROADWAY MATERIALS ARE TO BE REMOVED, REPLACED, AND IMPROVED TO MEET THE SPECIFICATION OF THE ROADWAY DETAILS AS SHOWN ON THIS SHEET.
8. ROADSIDE SWALES ARE TO BE FINISHED PER THE DETAILS AS INDICATED. SWALES ARE TO BE GRASS LINED FOR ROAD SLOPES OF 6% OR LESS. SWALES WITH SLOPES GREATER THAN 6% ARE TO BE FINISHED PER THE STONE LINED SWALE DETAIL.
9. ROADWAY RE-VEGETATION IS TO OCCUR PER THE ROAD RE-VEGETATION DETAIL, THIS SHEET.

E GENERAL ROADWAY CROSS SECTION NOTES (APPLICABLE TO ALL SECTIONS)
 N.T.S.



ROADWAY AND PAD SECTION DETAILS

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DH

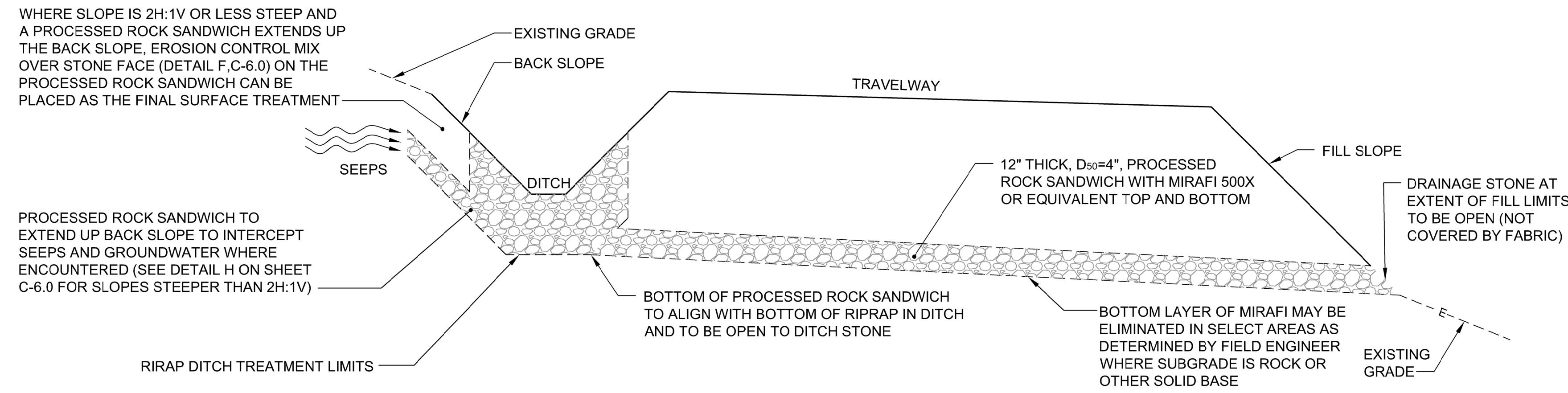
SHEET C-5.0

NO.	DATE	DESCRIPTION
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2	03.06.13	ACOE REVISIONS
3	04.09.13	PERMIT PLAN SUBMISSION

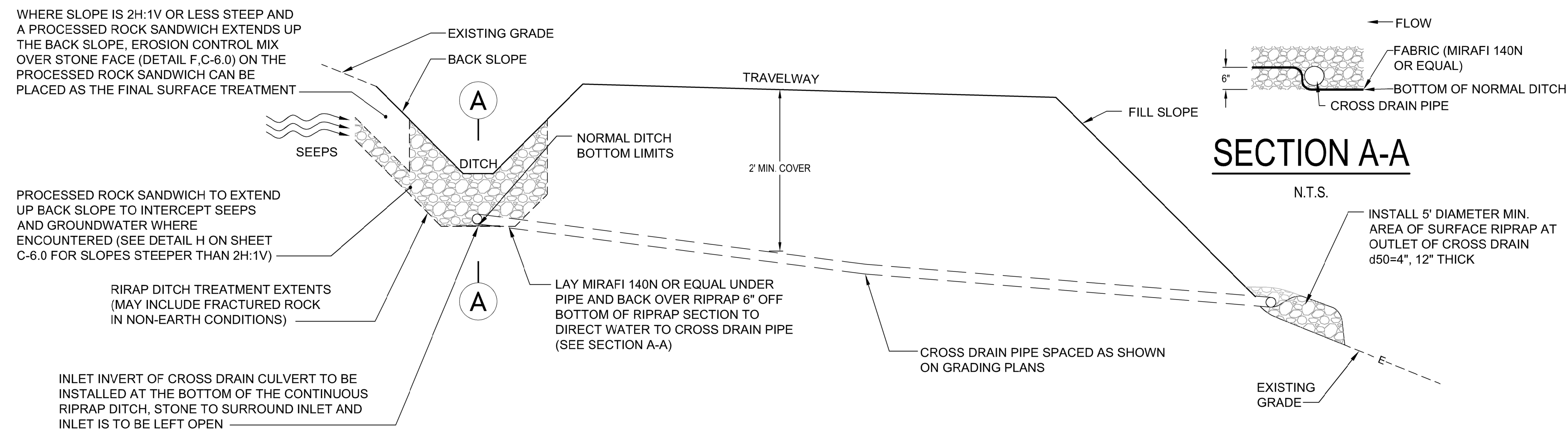
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 DESIGNED: SEPT 2012
 CHECKED: SRB
 FILE NAME: 3048-DET

DATE: 04.09.13
 JOB NO.: 3048
 NO.: 1

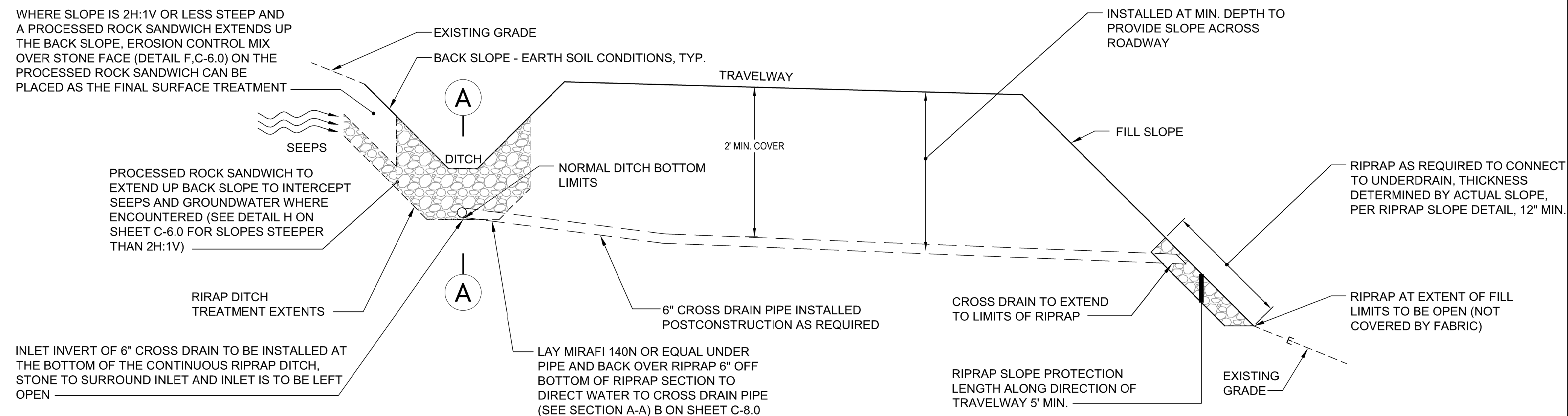
PRELIMINARY - NOT FOR CONSTRUCTION



A PROCESSED ROCK SANDWICH CROSS DRAINAGE DETAIL
N.T.S.



B PIPED CROSS DRAINAGE OPTION DETAIL
N.T.S.

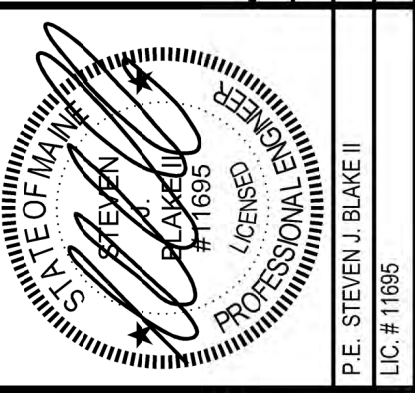


C POST CONSTRUCTION PIPED CROSS DRAINAGE DETAIL
N.T.S.

NOTES:

1. THE PRIMARY OBJECTIVE OF THESE CROSS DRAINAGE DETAILS IS TO KEEP EXISTING HYDROLOGY INTACT TO THE EXTENT POSSIBLE BY MAINTAINING SEEP AND SHALLOW PERCHED GROUND WATER FLOW.
2. THESE CROSS DRAINAGE DETAILS DO NOT REPLACE REQUIRED CULVERTING FOR STORMWATER CONVEYANCE. SEE OTHER DETAILS FOR STORMWATER FLOW CONTROL VIA DITCH AND CULVERTING.
3. THE POST CONSTRUCTION CROSS DRAINAGE DETAIL WILL BE INSTALLED WHERE SEEPS ARE OBSERVED AFTER CONSTRUCTION OF THE ROADWAYS AND DETAIL A OR B CONSTRUCTION WAS NOT PROVIDED.
4. ROCK SANDWICHES MAY NOT BE REQUIRED IF ROADWAY IS CONSTRUCTED WITH BLAST ROCK. COORDINATE WITH FIELD ENGINEER AND THIRD PARTY INSPECTOR.

SOIL HYDROLOGY PRESERVATION DETAILS

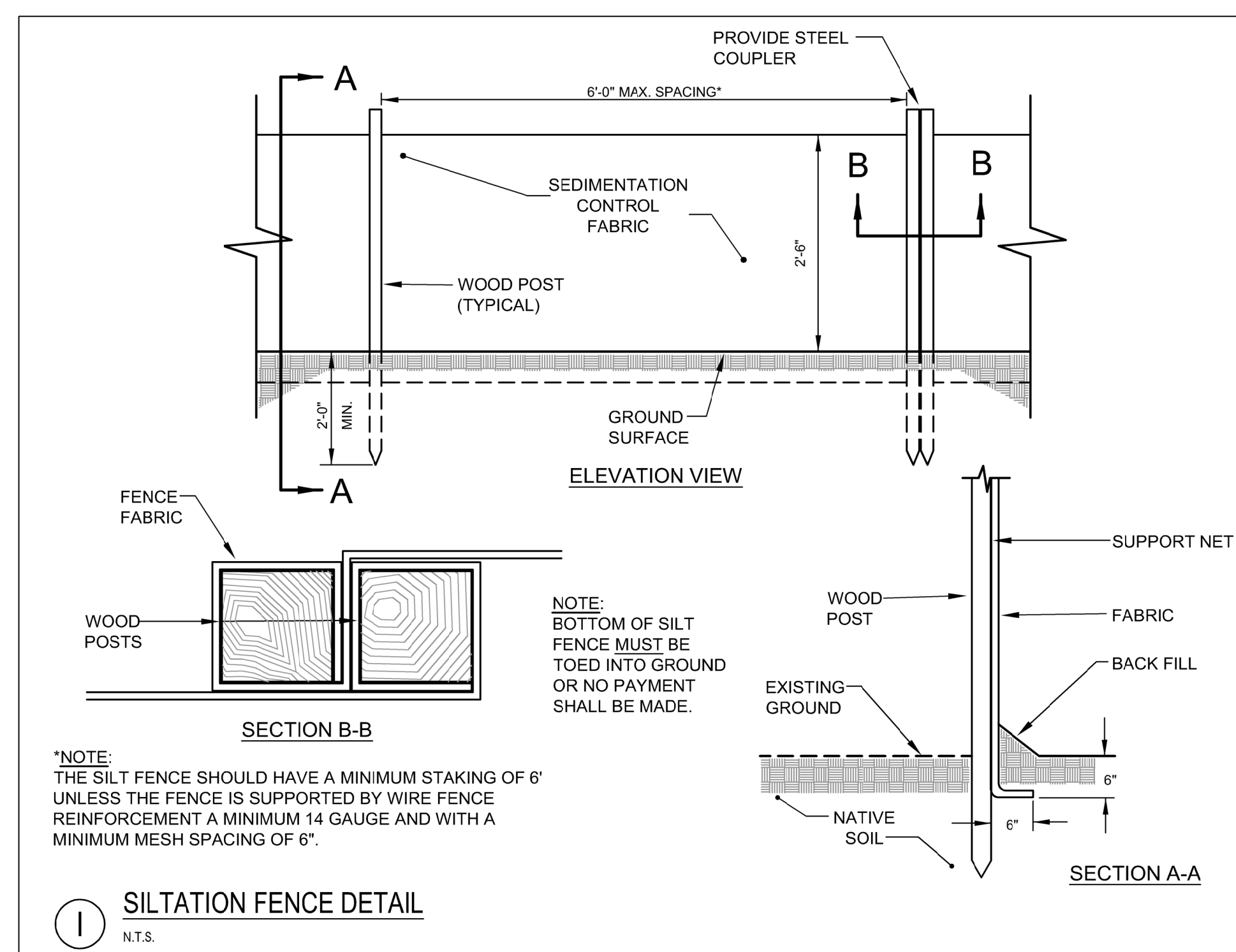
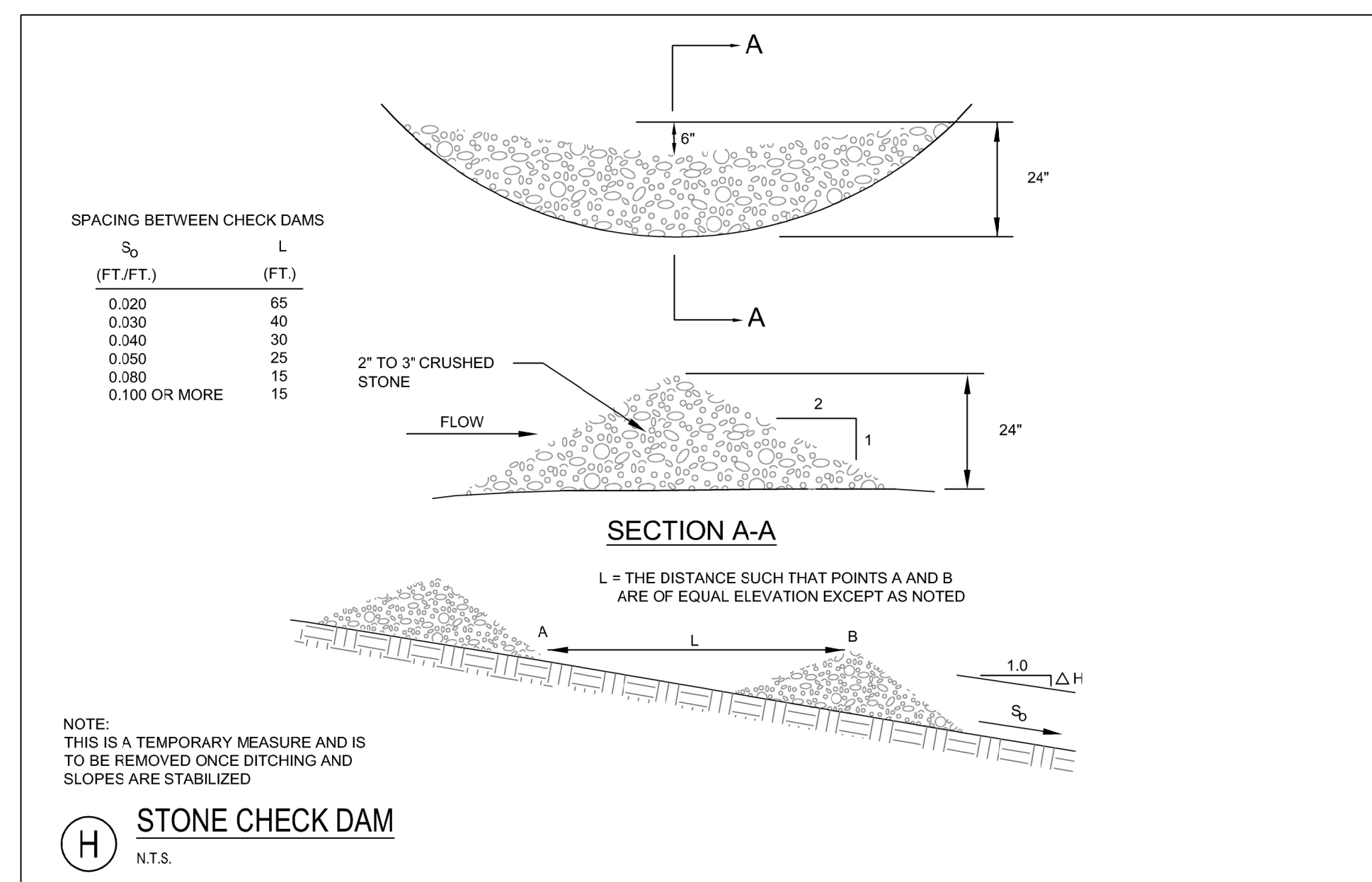
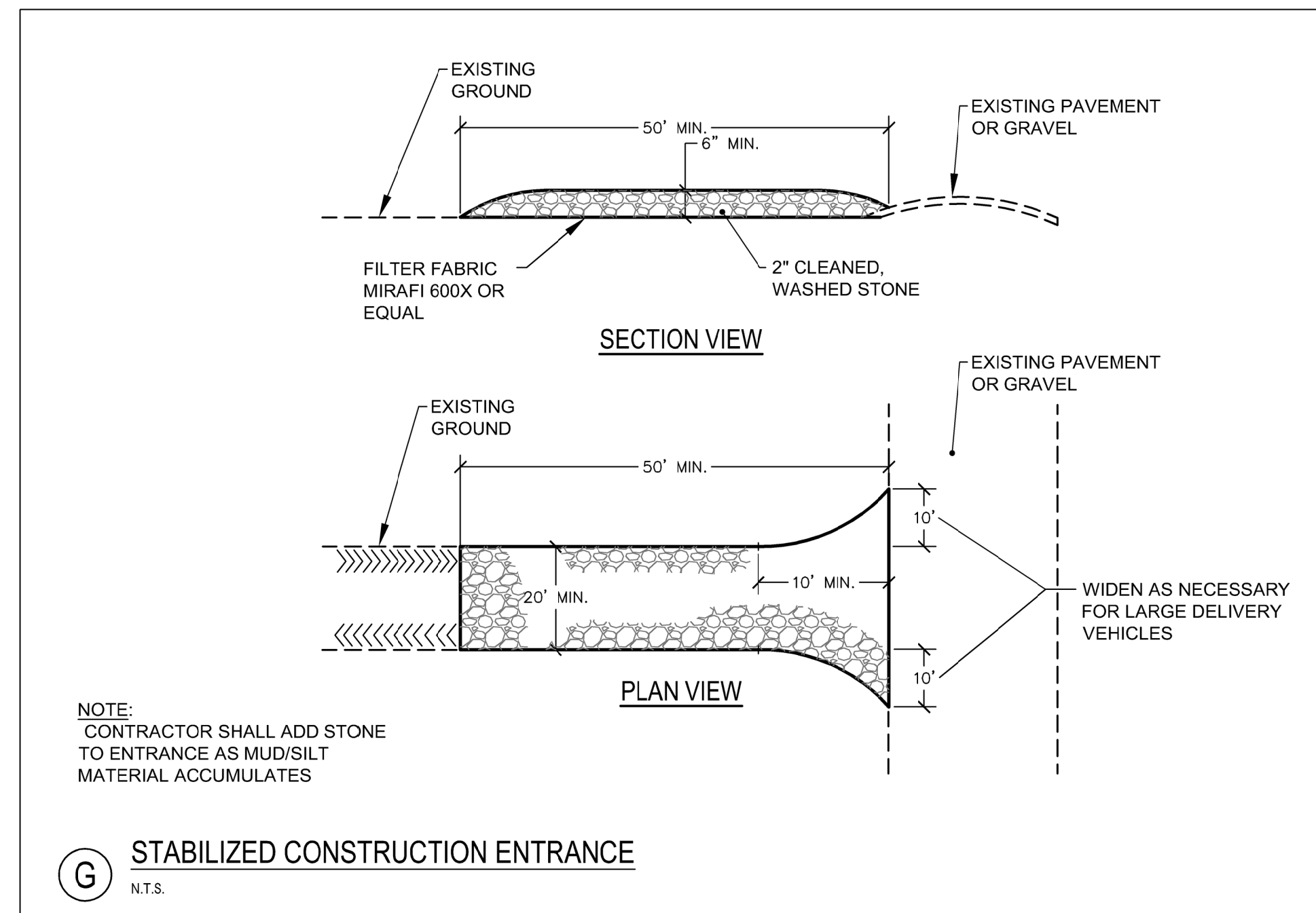
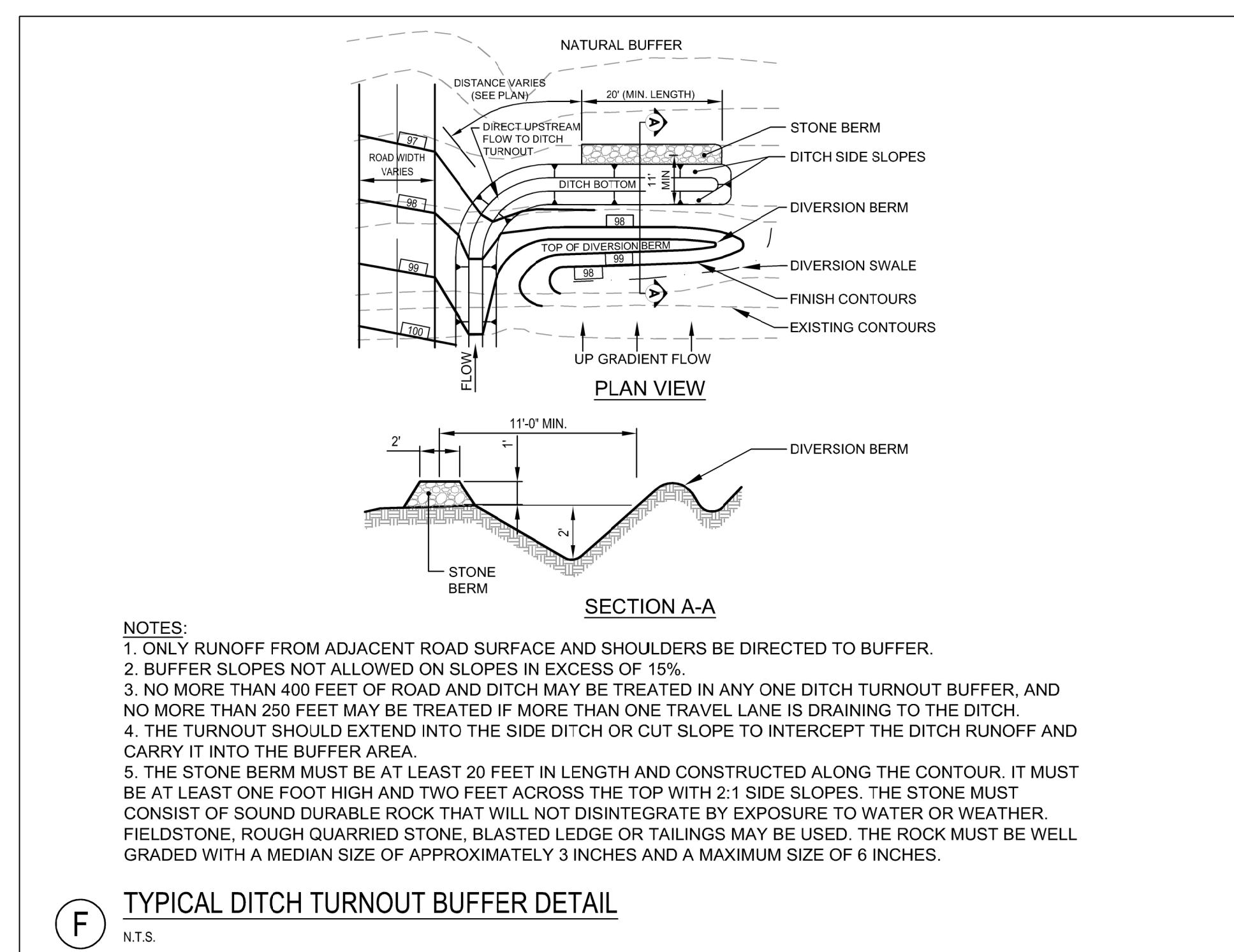
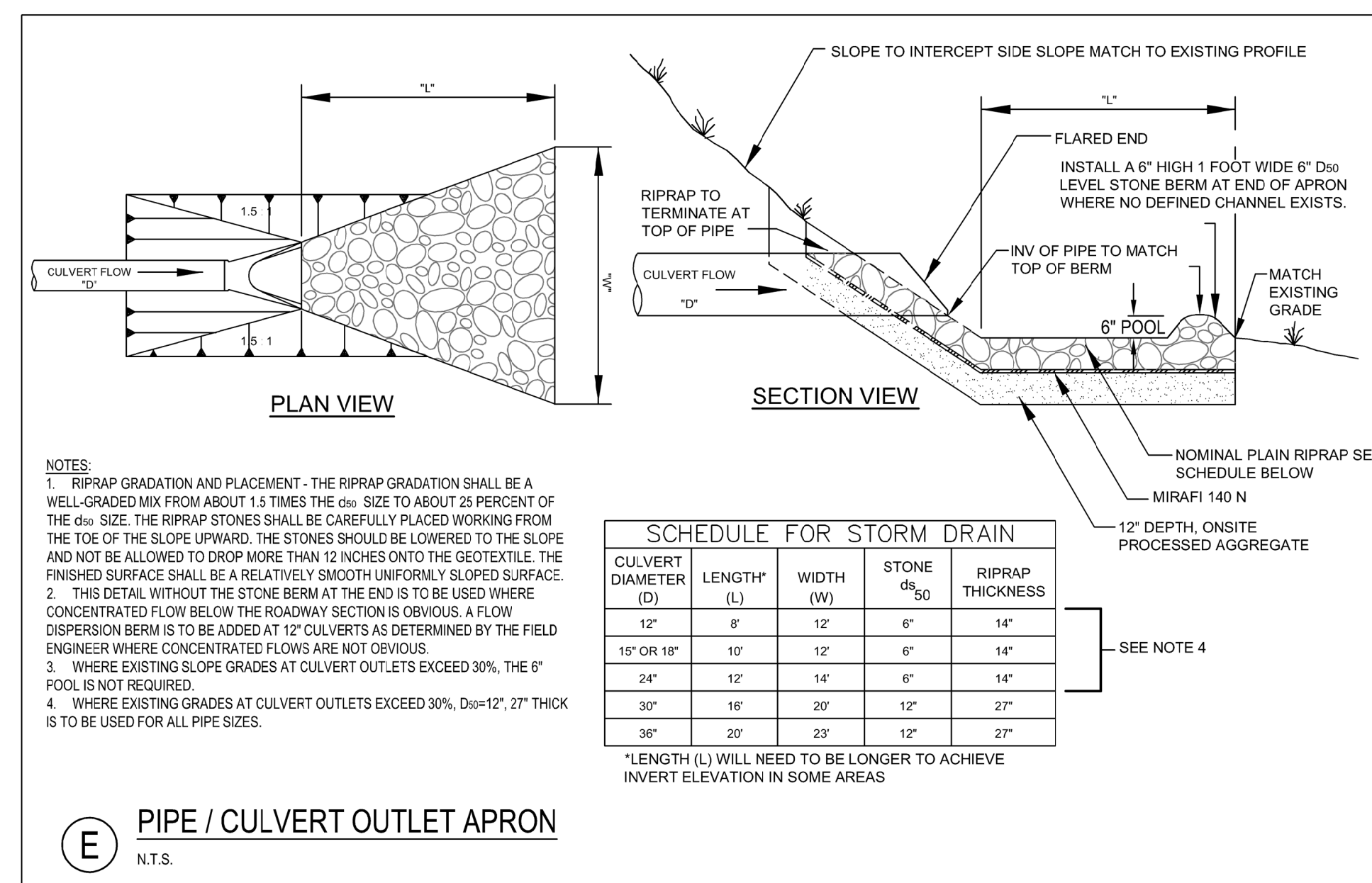
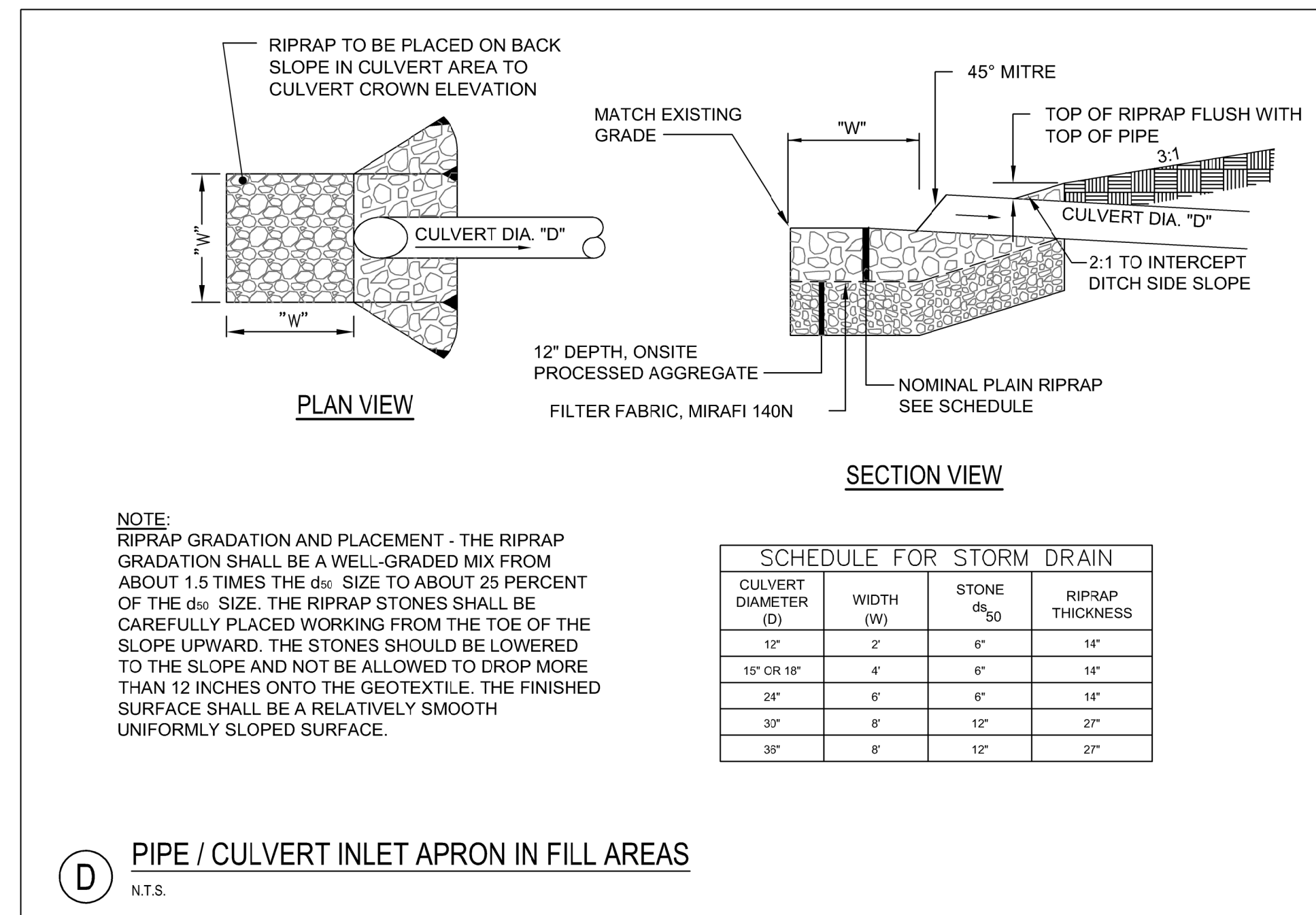
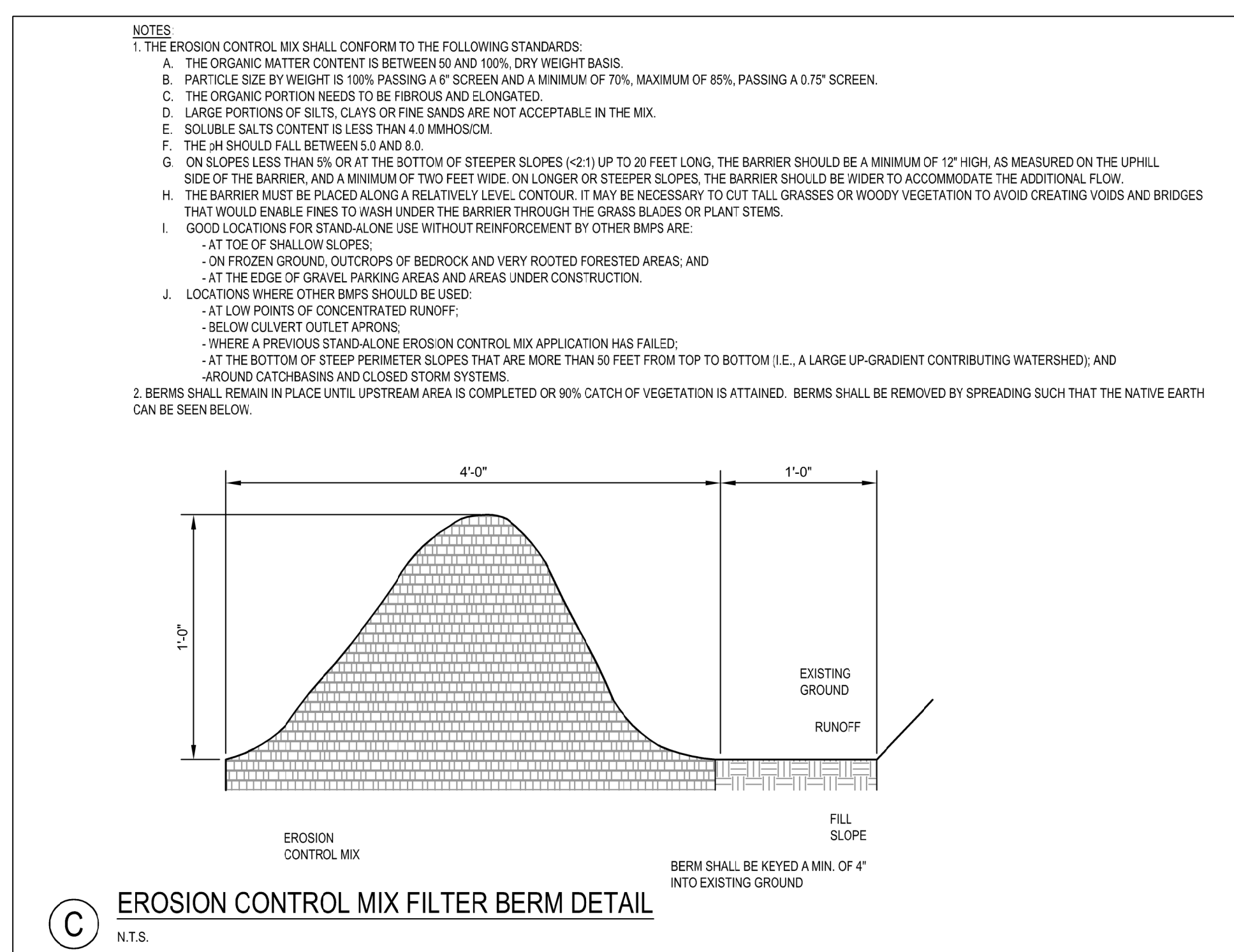
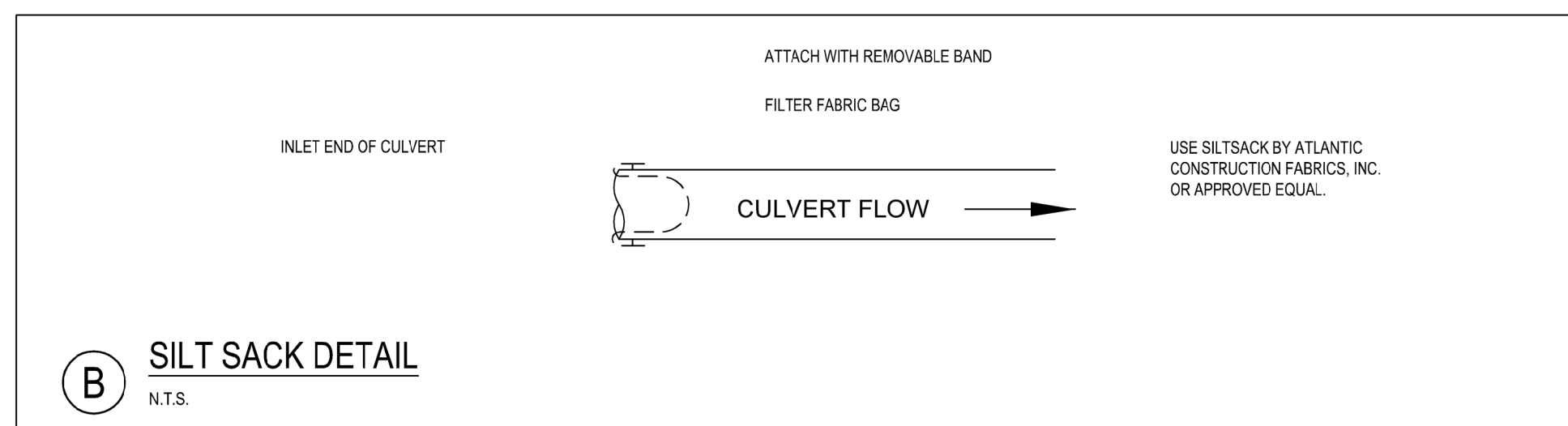
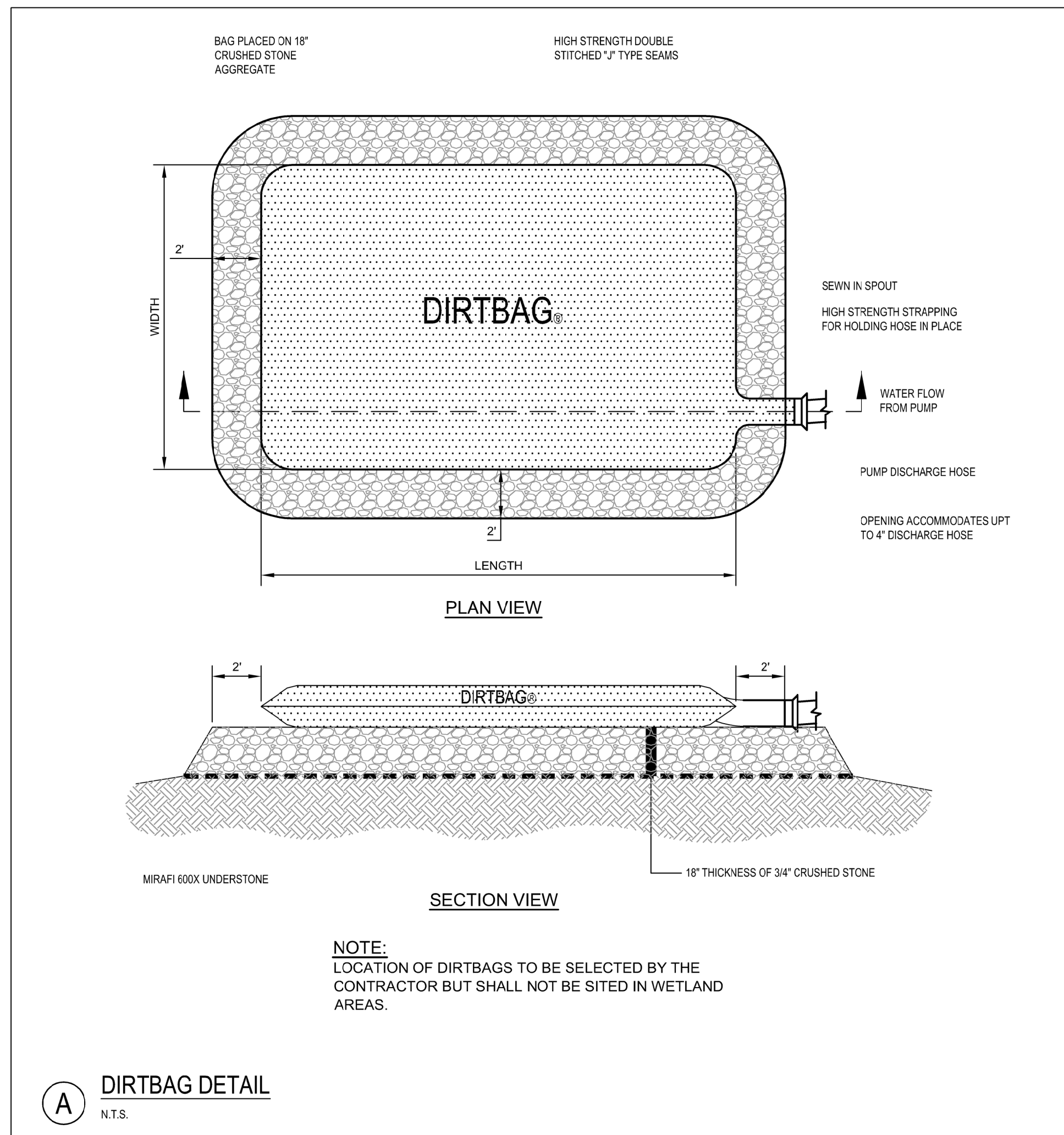


BINGHAM WIND PROJECT
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SHEET
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NO.	DATE	DESCRIPTION
1	12.19.12	PERMIT DRAWINGS SUBMITTED FOR PROJECT TEAM REVIEW
2	03.06.13	ACOE REVISIONS
3	04.09.13	PERMIT PLAN SUBMISSION

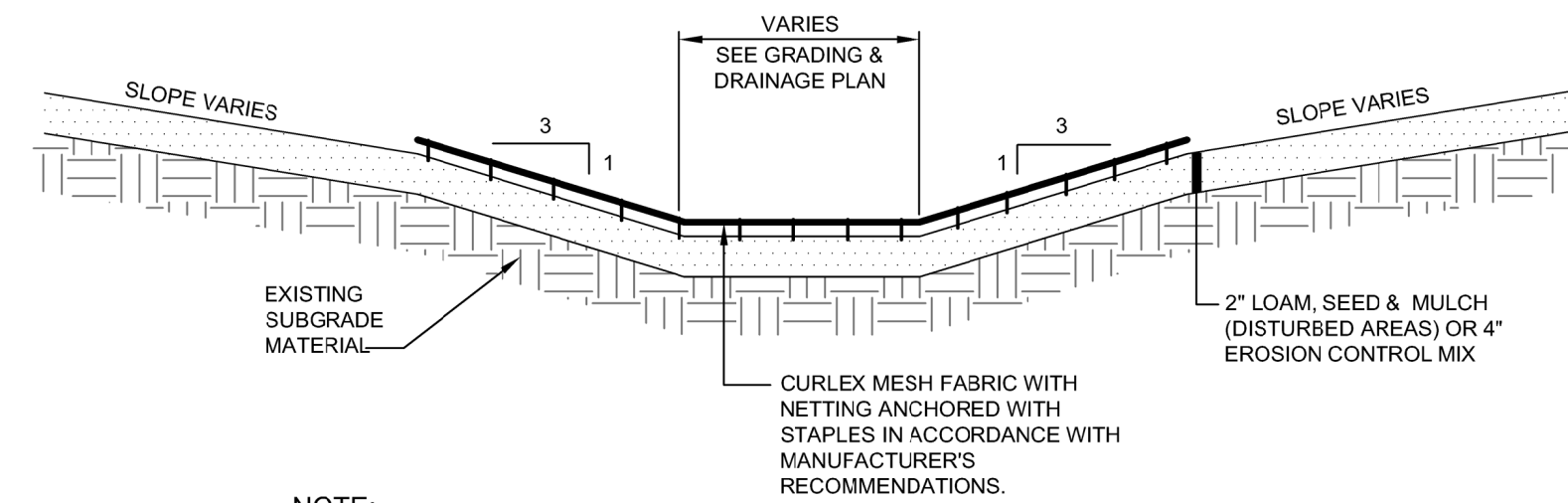
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3048-DET	3048	AS NOTED	SEPT 2012	3
SRB	3048	DATE	SEPT 2012	2
CHECKED:	3048	DATE	SEPT 2012	1
DESIGNED:	3048	DATE	SEPT 2012	1
DRAWN:	3048	DATE	SEPT 2012	1

BINGHAM WIND PROJECT
BLUE SKY WEST, LLC

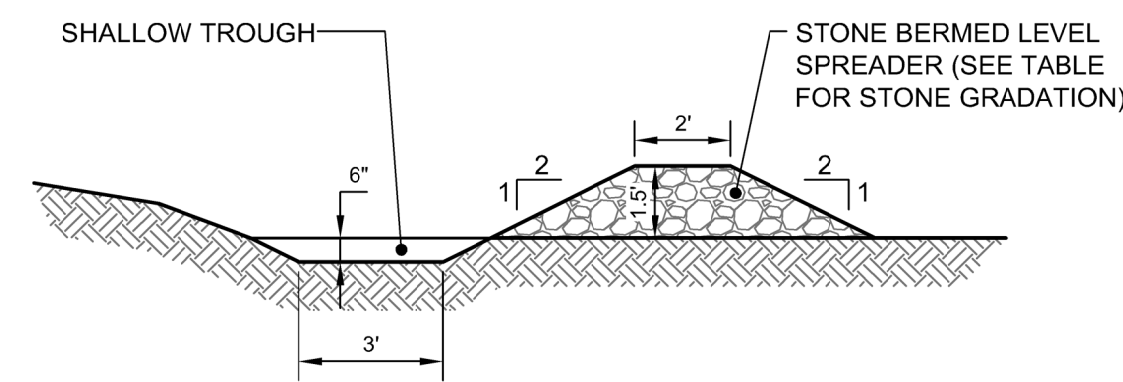
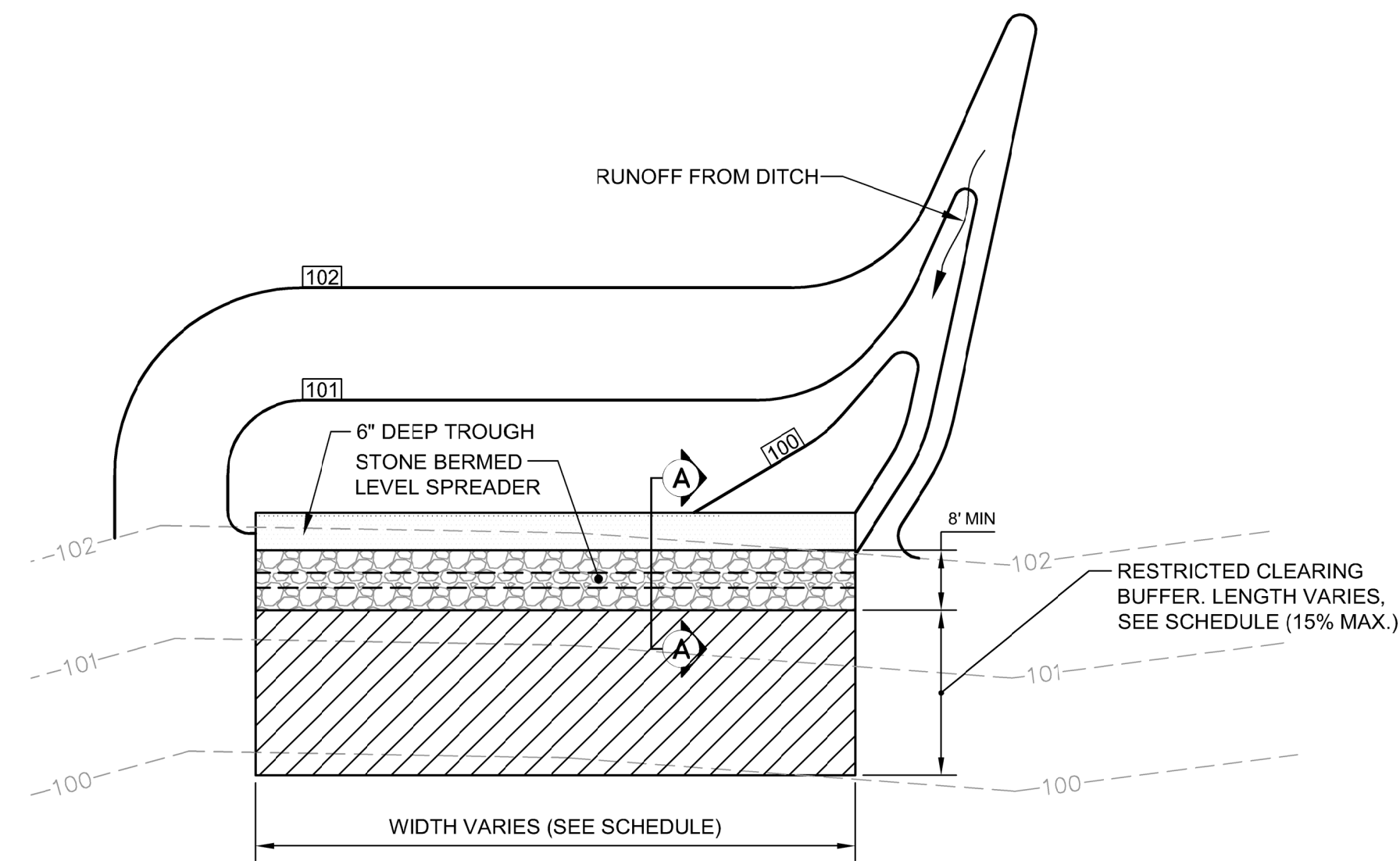
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PROFESSIONAL ENGINEER
P.E. STEVEN J. BLAKE II
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE
LICENSE # 11895

DR. H. HOFFMAN



A VEGETATED SWALE DETAIL
N.T.S.



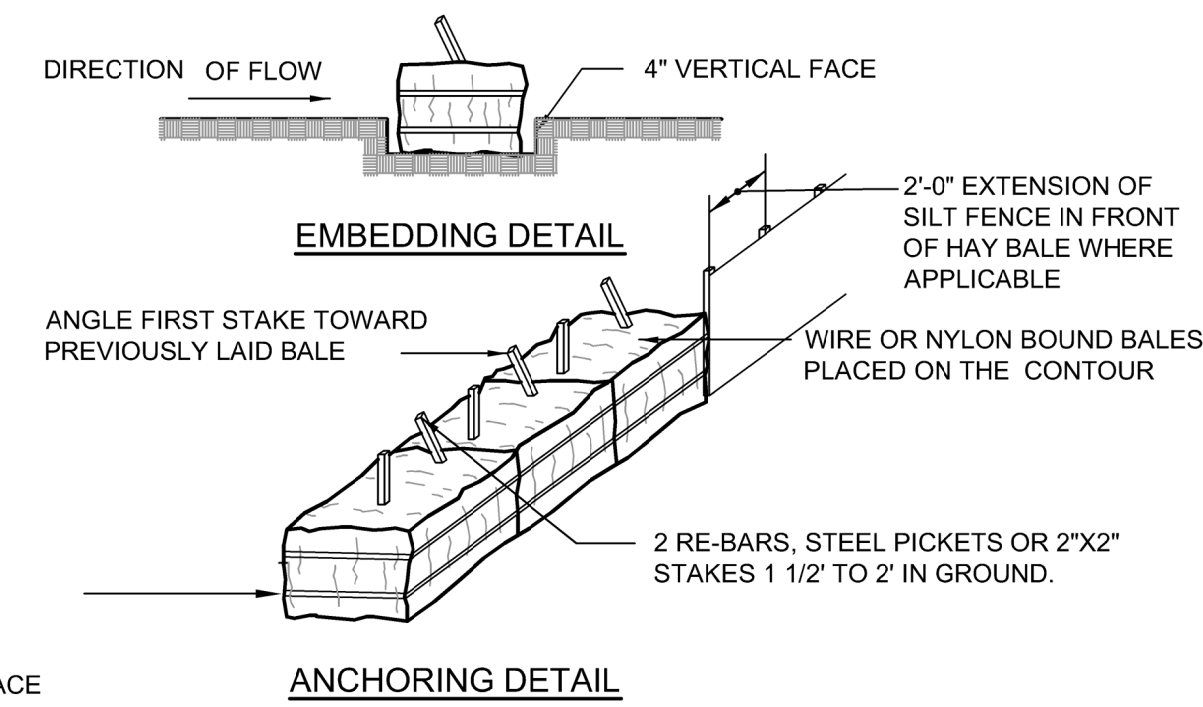
SECTION A-A

BERM STONE SIZE

SIEVE DESIGNATION (US CUSTOMARY)	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE
12 IN	100
6 IN	84-100
3 IN	68-83
1 IN	42-55
NO. 4	8-12

NOTE:
LEVEL SPREADER SHALL BE ORIENTATED PARALLEL TO THE EXISTING CONTOUR. SHOULD FIELD CONDITIONS CHANGE ROTATE LAYOUT OF BERM TO DIRECT SHEET FLOW ALONG EXISTING CONTOUR.

C STONE BERMED LEVEL SPREADER DETAIL
N.T.S.



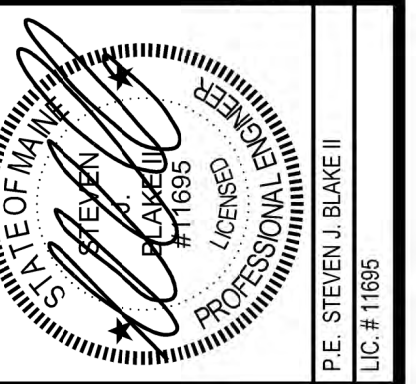
CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

B STRAW OR HAY BALE BARRIER
N.T.S.

EROSION CONTROL DETAILS

NO.	DATE	DESCRIPTION
1	12.19.12	PERMIT DRAWINGS SUBMITTED FOR PROJECT TEAM REVIEW
2	03.06.13	ACOE REVISIONS
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