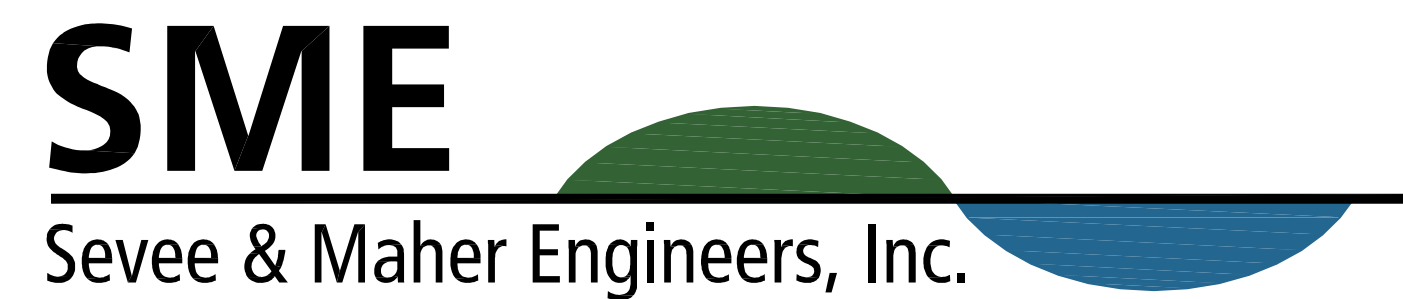
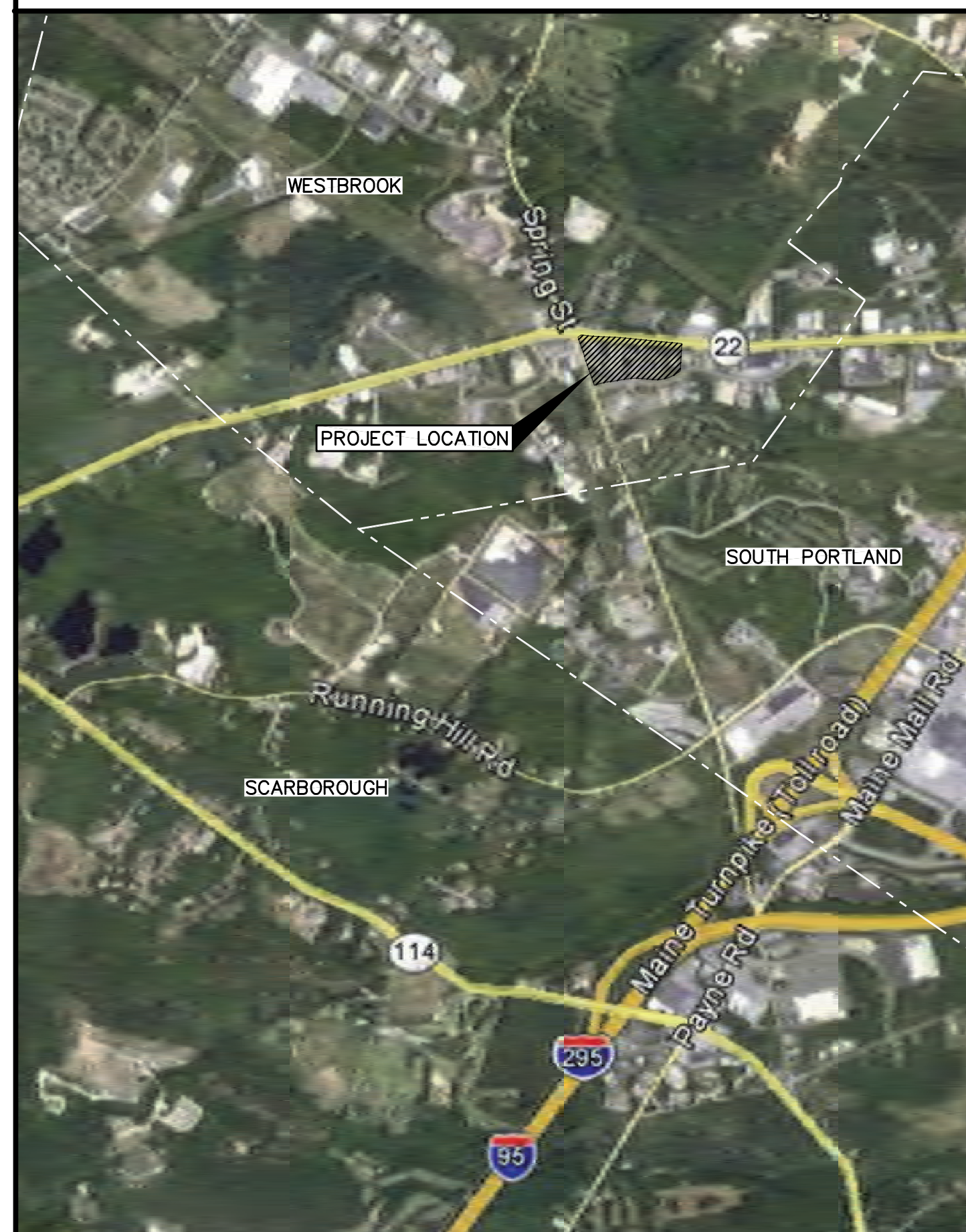


# LONG CREEK WATERSHED MANAGEMENT DISTRICT BLANCHETTE BROOK WATERSHED STORMWATER IMPROVEMENTS WESTBROOK, MAINE

TITLE	DWG NO
COVER SHEET, LOCATION MAP AND GENERAL NOTES	
EXISTING SITE CONDITIONS PLAN	C-100
SITE DEMOLITION PLAN	C-101
SITE PLAN	C-102
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-200
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-201
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-202
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-203
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-204
STORMWATER TREATMENT AREAS PLANS AND SECTIONS	C-205
EROSION CONTROL NOTES AND DETAILS	C-300
SECTIONS AND DETAILS	C-301

## LOCATION MAP



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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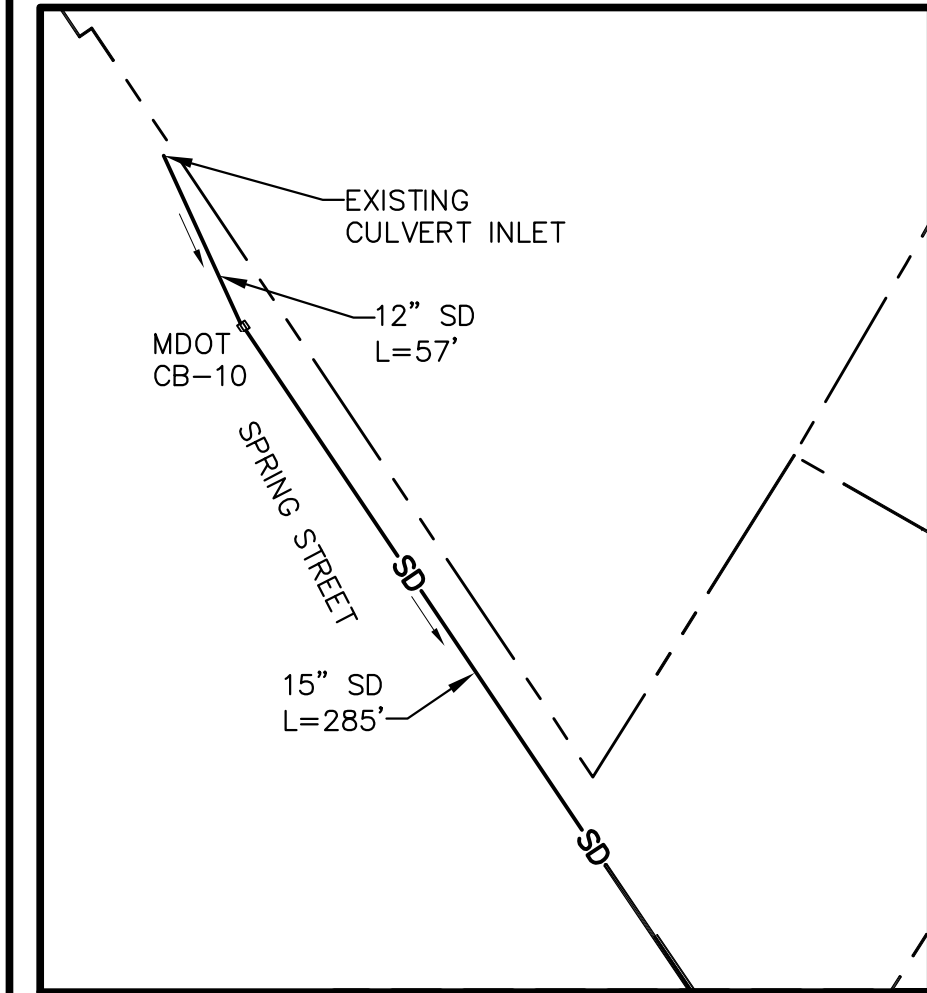
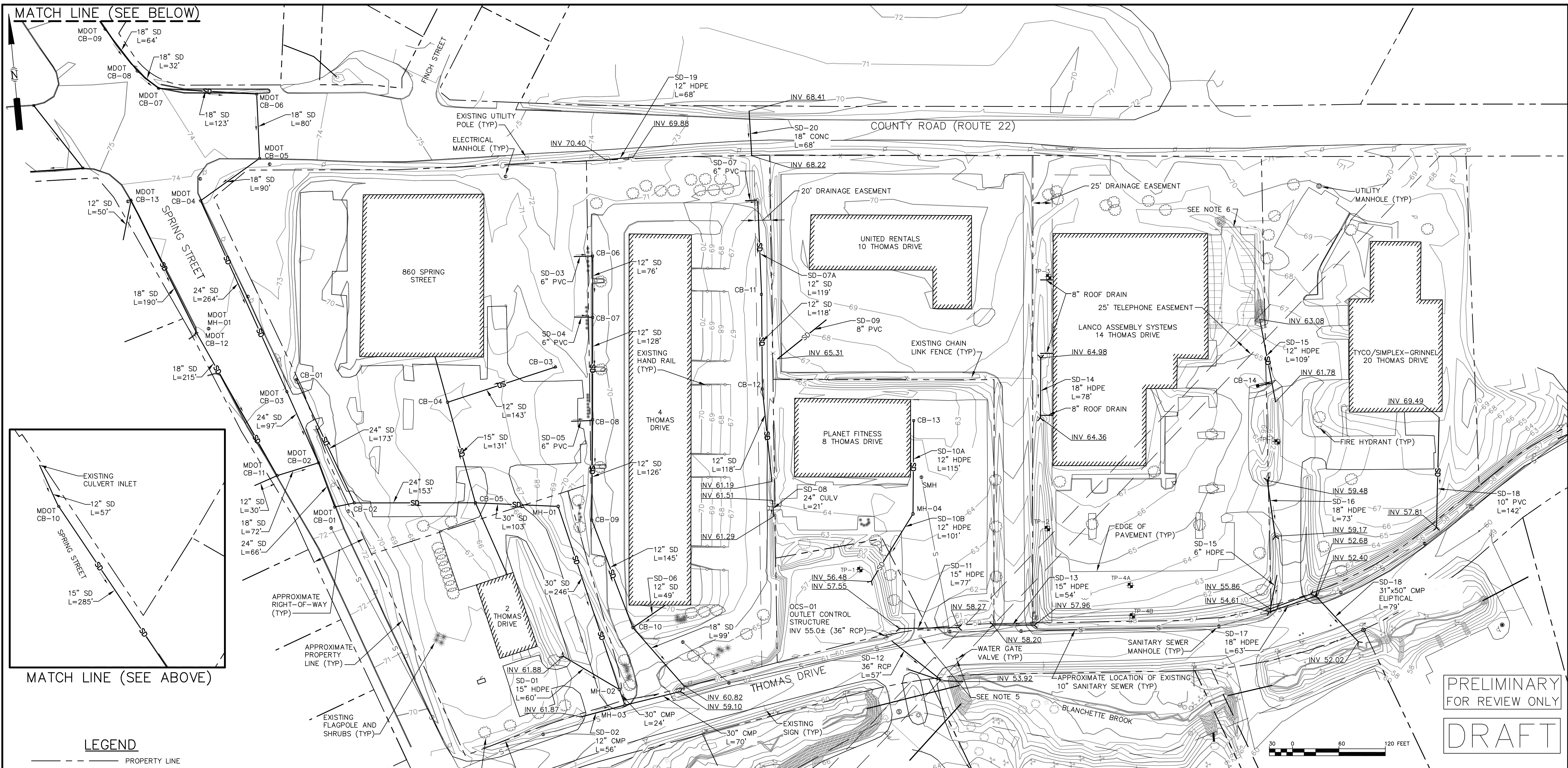
### GENERAL NOTES:

1. ADD 6" LOAM, SEED AND MULCH TO DISTURBED AREAS UNLESS OTHERWISE NOTED. PROVIDE EROSION CONTROL MESH ON ALL SLOPES 6:1 OR STEEPER AND ALONG DITCH CHANNELS.
2. GRADE SURFACES TO DRAIN AWAY FROM BUILDINGS. PUDDLING OF WATER IN PAVED OR UNPAVED AREAS WILL NOT BE ACCEPTABLE EXCEPT FOR AREAS DESIGNATED AS PONDS.
3. RELOCATE EXISTING TBM INFORMATION ONTO NEW TBM OF CONTRACTORS CHOICE FOR CONSTRUCTION USE PRIOR TO REMOVAL OF EXISTING TBM.
4. SOME EXISTING PIPES COULD BE ASBESTOS CEMENT PIPE. HANDLE AND DISPOSE OF ASBESTOS MATERIALS WITH CARE AND IN ACCORDANCE WITH APPLICABLE CODES AND SAFETY STANDARDS.
5. EXCAVATE AND STOCKPILE ON-SITE TOPSOIL. TOPSOIL IS TO REMAIN THE PROPERTY OF THE OWNER DURING CONSTRUCTION AND SHALL NOT BE REMOVED FROM THE SITE. AFTER FINAL LOAM AND SEED, EXCESS TOPSOIL SHALL BE REMOVED FROM SITE BY CONTRACTOR.
6. PAVEMENT EDGES SHALL BE TRUE TO LINE. SAWCUT EXISTING PAVEMENT IN A SMOOTH STRAIGHT LINE WHERE NEW PAVEMENT JOINS. PROVIDE TACK COAT LAYER AS SPECIFIED.
7. PROVIDE TRAFFIC CONTROL SIGNAGE AND STRIPING AS SHOWN AND IN ACCORDANCE WITH U.S.D.O.T. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8. CATCH BASIN GRATES SHALL BE SET SQUARE TO PAVEMENT EDGES.
9. CLEAN SEDIMENTS FROM NEW AND EXISTING STORM DRAIN PIPES AND CATCH BASINS
10. COORDINATE WORK ON UTILITY LINES OR WITHIN ROAD RIGHT-OF-WAY WITH THE UTILITY COMPANIES AND CITY ROAD DEPARTMENT AND STATE MDOT.
11. RESET RIMS OF EXISTING UTILITY STRUCTURES, MANHOLES AND CATCH BASINS TO NEW GRADE.
12. THE LOCATION OF THE EXISTING GAS MAIN AND WATER LINE IN THOMAS DRIVE IS UNKNOWN. THE CONTRACTOR SHALL CALL DIG SAFE (1-888-DIG-SAFE) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

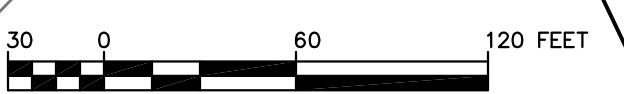
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PRELIMINARY  
FOR REVIEW ONLY  
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**LEGEND**

- PROPERTY LINE
- - - EASEMENT LINE
- ==== EDGE OF PAVEMENT
- CURB
- 60 CONTOUR
- ▨ BUILDING
- - - FENCE
- - - HANDRAIL
- TP-1+ TEST PIT
- SD STORM DRAIN
- CB CATCH BASIN
- ⊙ DRAINAGE MANHOLE
- ⊙ SANITARY SEWER LINE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ UTILITY POLE
- UGU UNDERGROUND UTILITY
- ⊙ UTILITY MANHOLE
- ⊙ TELEPHONE MANHOLE
- ⊙ WATER GATE VALVE
- ⊙ HYDRANT
- ⊙ SIGN
- ⊙ RIPRAP
- ⊙ TREE
- ⊙ SHRUB

**NOTES**

1. EXISTING TOPOGRAPHY FROM GPS SURVEY PERFORMED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE ON OCTOBER 25, 2011 AND NOVEMBER 7, 2011. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO ENGINEER. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
2. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
3. TEST PITS PERFORMED BY ALBERT FRICK ASSOCIATES, INC. NOVEMBER 2011.
4. DRAINAGE EASEMENTS SHOWN AT 4 AND 14 THOMAS DRIVE WERE TAKEN FROM A PROPERTY SURVEY PLAN FOR "GREATER PORTLAND BUILDING FUND, COLONEL WESTBROOK INDUSTRIAL PARK", BY H.I. & E.C. JORDAN, DATED 4/19/1982. OTHER EASEMENTS MAY BE PRESENT THAT ARE NOT SHOWN ON THIS PLAN.
5. THE LOCATION OF THE EXISTING GAS MAIN AND WATER LINE IN THOMAS DRIVE IS UNKNOWN. THE CONTRACTOR SHALL CALL DIG SAFE (1-888-DIG-SAFE) PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
6. PARKING LOT LIMIT OF PAVEMENT, GRADING AND DRAINAGE SHOWN AT LANCO ASSEMBLY SYSTEMS (14 THOMAS DRIVE) IS PROPOSED BY OTHERS AND SHALL BE FIELD VERIFIED PRIOR TO ANY WORK.

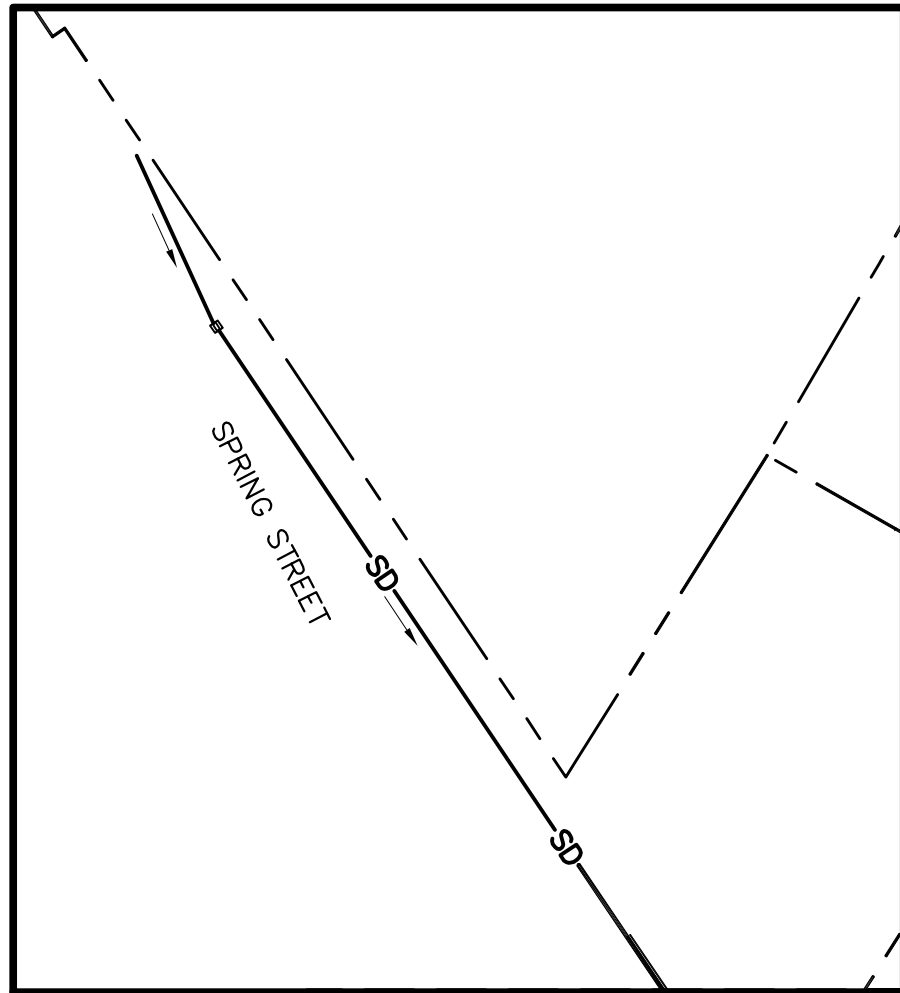
**DRAIN MANHOLE/CATCH BASIN SCHEDULE**

STREET/LOT LOCATION	ID	RIM EL.	INV IN	FROM STRUCTURE	INV OUT	TO STRUCTURE	STREET/LOT LOCATION	ID	RIM EL.	INV IN	FROM STRUCTURE	INV OUT	TO STRUCTURE
SPRING STREET	MDOT CB-01	72.58	-	-	-	CB-02	860 SPRING STREET	CB-04	66.58	62.49	CB-02	62.49	CB-04
SPRING STREET	MDOT CB-02	71.66	-	MDOT CB-03	-	MDOT CB-01	860 SPRING STREET	CB-05	65.08	61.35	CB-02	61.08	MH-01
SPRING STREET	MDOT CB-03	72.18	-	MDOT CB-04	-	MDOT CB-02	2 THOMAS DRIVE	MH-01	69.35	60.93	CB-05	60.85	MH-02
SPRING STREET	MDOT CB-04	73.49	-	MDOT CB-05	-	MDOT CB-03	2 THOMAS DRIVE	MH-02	63.96	59.36	SD-01	59.63	MH-03
COUNTY ROAD	MDOT CB-05	73.77	-	MDOT CB-06	-	MDOT CB-04	2 THOMAS DRIVE	MH-03	64.15	60.99	SD-02	59.32	DITCH OUTLET
COUNTY ROAD	MDOT CB-06	73.35	-	MDOT CB-07	-	MDOT CB-05	4 THOMAS DRIVE	CB-06	69.15	66.45	SD-03	-	CB-07
COUNTY ROAD	MDOT CB-07	74.24	-	MDOT CB-08	-	MDOT CB-06	4 THOMAS DRIVE	CB-07	69.11	65.66	CB-06	63.96	CB-08
COUNTY ROAD	MDOT CB-08	74.57	-	MDOT CB-09	-	MDOT CB-07	4 THOMAS DRIVE	CB-08	69.13	65.98	SD-05	63.13	CB-09
COUNTY ROAD	MDOT CB-09	74.90	-	MDOT CB-10	-	MDOT CB-08	4 THOMAS DRIVE	CB-09	69.02	-	CB-08	-	CB-10
COUNTY ROAD	MDOT CB-10	-	-	CULVERT	-	MDOT CB-09	4 THOMAS DRIVE	CB-10	67.53	-	SD-06	-	DITCH OUTLET
COUNTY ROAD	MDOT CB-11	71.61	-	MDOT CB-12	-	MDOT CB-02	4 THOMAS DRIVE	CB-11	65.30	-	SD-07A	61.75	CB-10
COUNTY ROAD	MDOT CB-12	73.01	-	MDOT CB-13	-	MDOT CB-11	4 THOMAS DRIVE	CB-12	65.07	-	CB-11	61.44	DITCH OUTLET
COUNTY ROAD	MDOT CB-13	73.91	-	CULVERT	-	MDOT CB-12	8 THOMAS DRIVE	OCS-01	61.18	N/A	NONE	-	EXIST CB
SPRING STREET	CB-01	69.14	N/A	NONE	-	CB-02	8 THOMAS DRIVE	CB-13	-	N/A	NONE	53" BELOW RIM	MH-04
860 SPRING STREET	CB-02	70.51	N/A	CB-01	-	CB-05	8 THOMAS DRIVE	MH-04	64.97	-	-	-	DITCH OUTLET
860 SPRING STREET	CB-03	68.01	N/A	NONE	-	CB-03	14 THOMAS DRIVE	CB-14	64.14	N/A	NONE	-	SD-15

REV.	BY	DATE	STATUS
<b>LONG CREEK WATERSHED MANAGEMENT DISTRICT</b> <b>BLANCHETTE BROOK WATERSHED</b> <b>STORMWATER IMPROVEMENTS</b> <b>WESTBROOK, MAINE</b>			
<b>EXISTING SITE CONDITIONS PLAN</b>			
<b>SME</b> Sevee & Maher Engineers, Inc.		ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com	
DESIGN BY: DPD		DRAWN BY: SJM	
DATE: 3/2012		CHECKED BY:	
LMN: EXCON		CTB: SME-STD	
JOB NO. 11156		DWG FILE BASE	
		C-100	



MATCH LINE (SEE BELOW)



MATCH LINE (SEE ABOVE)



LEGEND

- PROPERTY LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- CURB
- 60 --- CONTOUR
- /// BUILDING
- x- FENCE
- HANDRAIL
- TP-1+ TEST PIT
- SD STORM DRAIN
- ▣ CATCH BASIN
- ⊙ DRAINAGE MANHOLE
- ⊙ SANITARY SEWER LINE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ UTILITY POLE
- UGU UNDERGROUND UTILITY
- ⊙ UTILITY MANHOLE
- ⊙ TELEPHONE MANHOLE
- ⊙ WATER GATE VALVE
- ⊙ HYDRANT
- ⊙ SIGN
- ▨ RIPRAP
- ⊙ TREE

DEMOLITION LEGEND

- ▨ REMOVE SITE ITEMS SHOWN HATCHED
- PROTECT DURING CONSTRUCTION
- CONSTRUCTION FENCE

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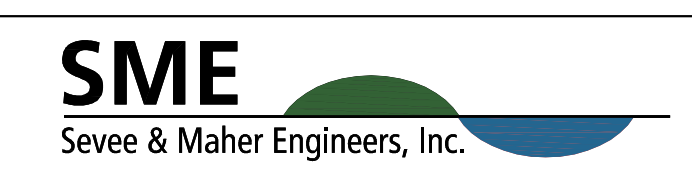
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REV.	BY	DATE	STATUS

LONG CREEK WATERSHED MANAGEMENT DISTRICT  
 BLANCHETTE BROOK WATERSHED  
 STORMWATER IMPROVEMENTS  
 WESTBROOK, MAINE

SITE DEMOLITION PLAN



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DESIGN BY: DPD  
 DRAWN BY: SJM  
 DATE: 3/2012  
 CHECKED BY: LMN  
 DEMOLITION  
 CTB: SME-STD

JOB NO. 11156      DWG FILE BASE      C-101

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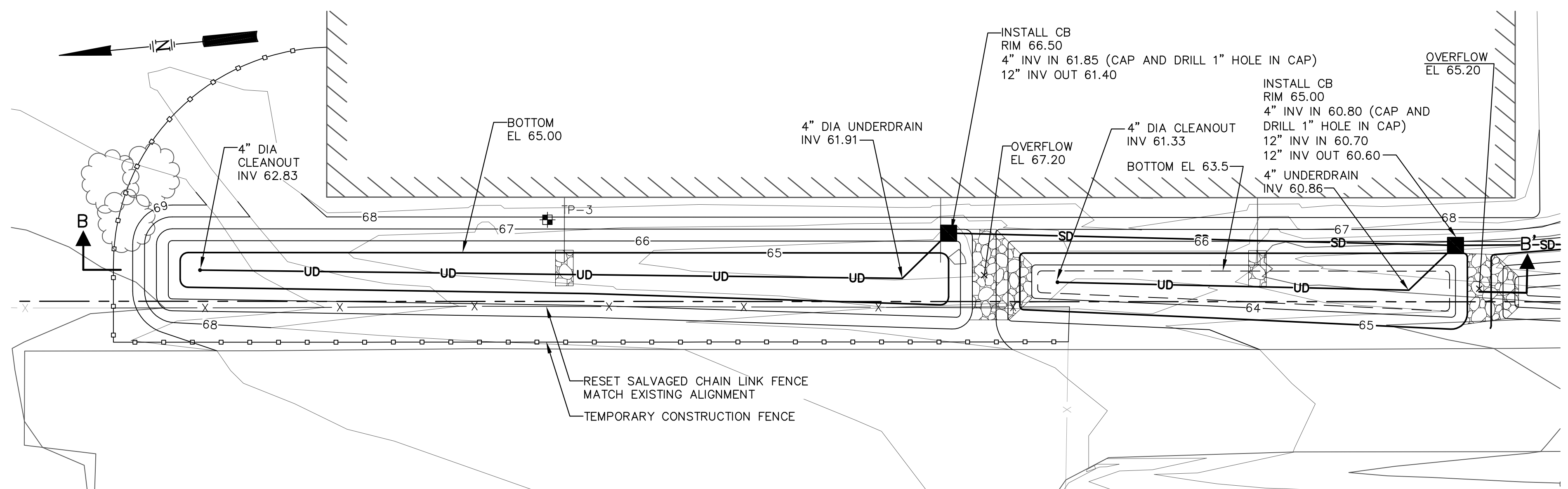




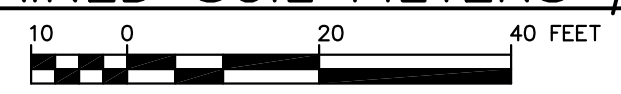








UNDERDRAINED SOIL FILTERS #1 AND #2



CONSTRUCTION OVERSIGHT:

CONTRACTOR SHALL NOTIFY ENGINEER ONE WEEK PRIOR TO THE FOLLOWING:

- AFTER PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED;
- AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA;
- AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDING; AND
- ALL MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN WILL BE APPROVED BY THE DESIGN ENGINEER AFTER TESTS BY A LABORATORY SHOW THAT THEY ARE PASSING SPECIFICATIONS SHOWN ON THIS SHEET.

THE SANDY LOAM TOPSOIL SHALL BE TESTED AT A SOIL TESTING LAB AND:

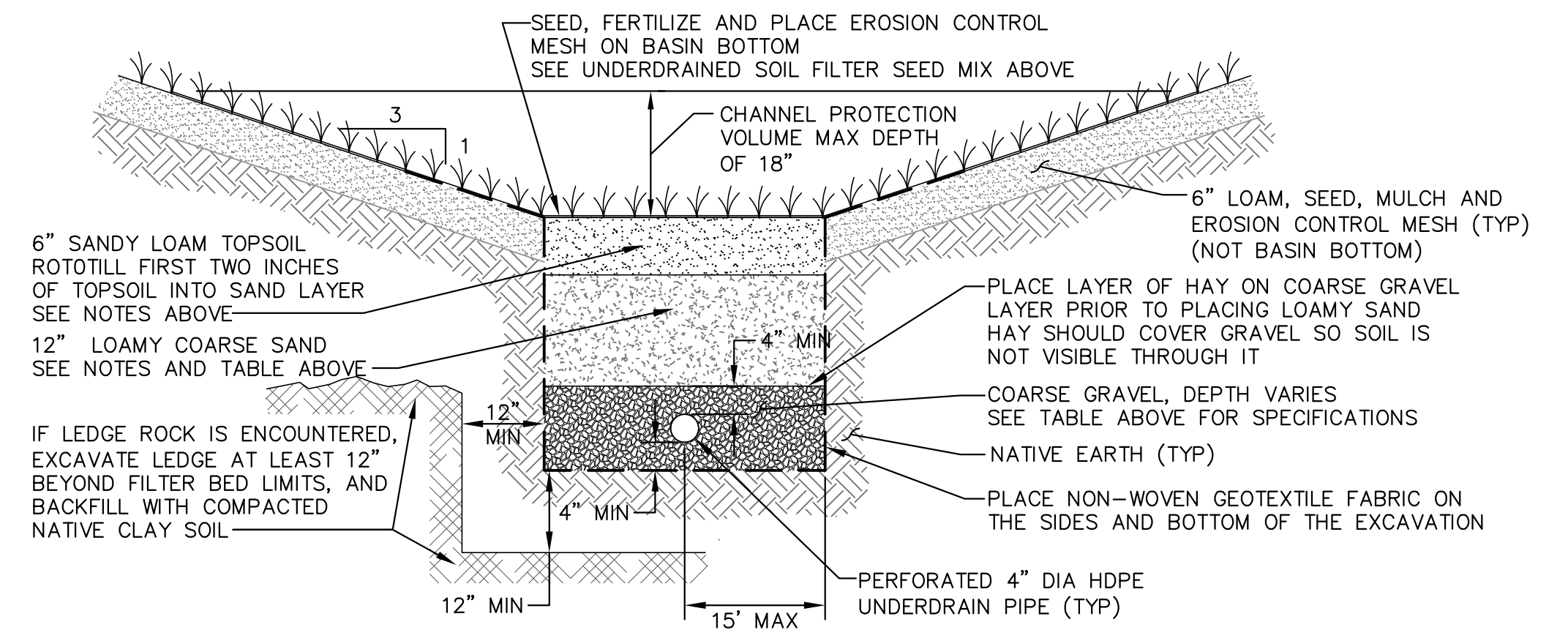
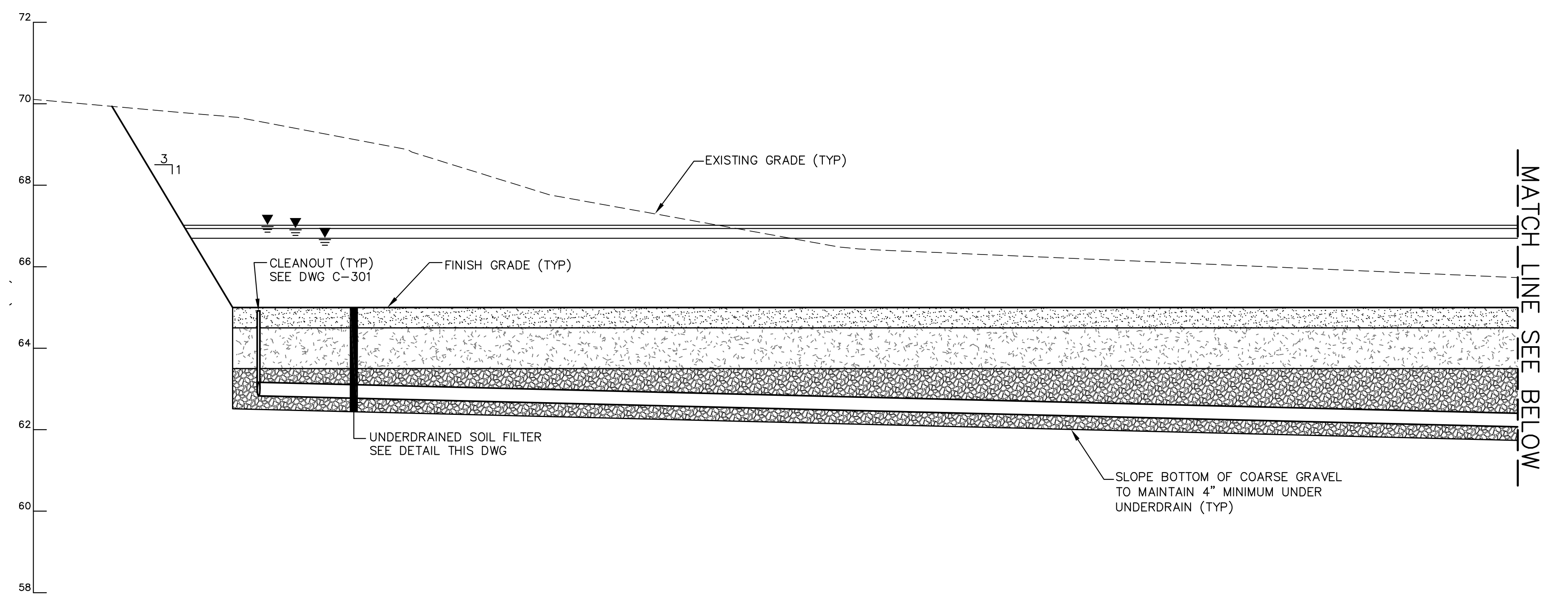
- MATCH THE USDA SANDY LOAM TOPSOIL CLASSIFICATION
- HAVE 5-8% HUMIFIED ORGANIC MATTER
- HAVE NO LESS THAN 8% PASSING THE #200 SIEVE
- HAVE A CLAY CONTENT OF LESS THAN 2%
- BE FREE OF STONES, STUMPS, ROOTS OR OTHER OBJECTS GREATER THAN 2".

IF THE TOPSOIL DOES NOT CONTAIN SUFFICIENT NUTRIENT CONTENT TO SUPPORT GRASS GROWTH, SUPPLEMENT WITH SUPERHUMUS ORGANIC MATTER AND RETEST ORGANIC MATTER AND CLAY CONTENT.

UNDERDRAINED SOIL FILTER	
Name	LBS/ACRE
Creeping Red Fescue	20
Tall Fescue	20
Birdsfoot trefoil	8
<b>Total</b>	<b>48</b>

SOIL FOR 12" LOAMY COARSE SAND LAYER (MEDOT #703.01)	
SIEVE SIZE	% BY WEIGHT
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	10-30
#100	2-10
#200	0-5

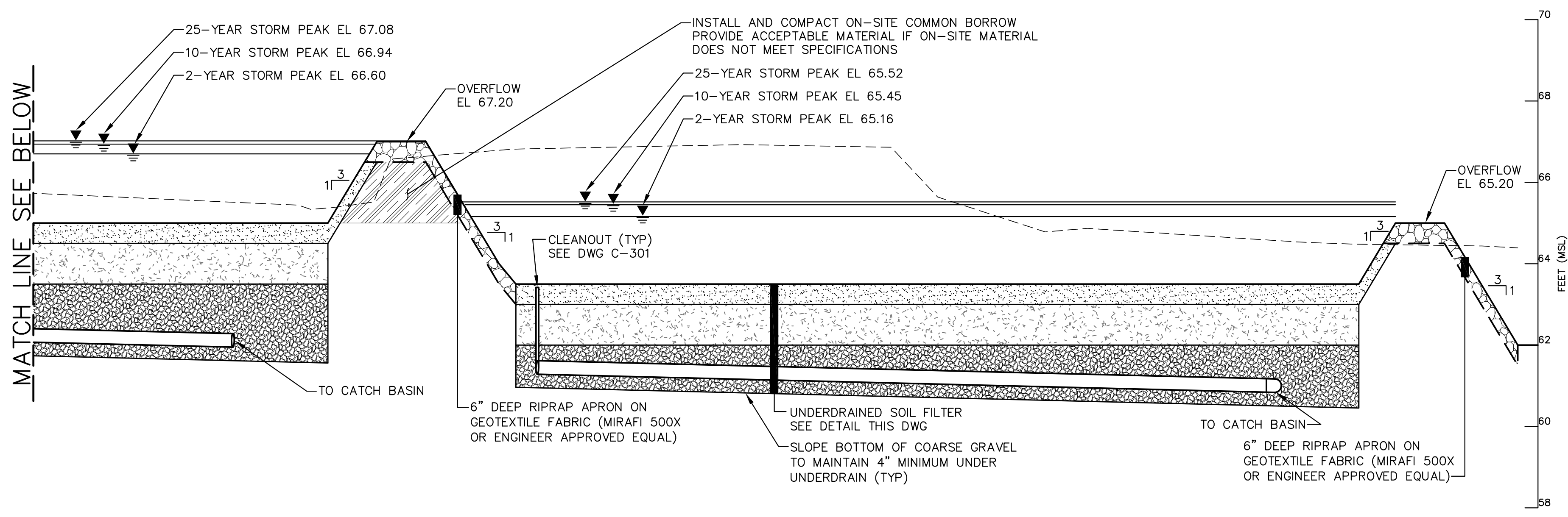
COARSE GRAVEL MEDOT SPECIFICATIONS FOR UNDERDRAINS (MEDOT #703.22)	
SIEVE SIZE	% PASSING BY WEIGHT
UNDERDRAIN TYPE B	
1"	90-100
2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5



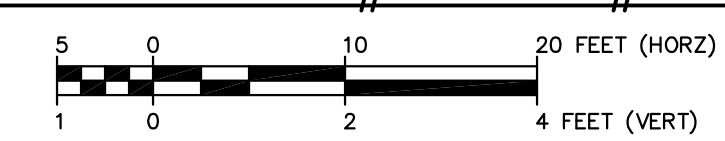
TYPICAL UNDERDRAINED SOIL FILTER DETAIL

PRELIMINARY FOR REVIEW ONLY

DRAFT



UNDERDRAINED SOIL FILTER #1 AND #2 SECTION B-B'



REV.	BY	DATE	STATUS

LONG CREEK WATERSHED MANAGEMENT DISTRICT  
BLANCHETTE BROOK WATERSHED  
STORMWATER IMPROVEMENTS  
WESTBROOK, MAINE

STORMWATER TREATMENT AREAS  
PLANS AND SECTIONS

**SME**  
Sevee & Maher Engineers, Inc.

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DESIGN BY: DPD  
DRAWN BY: SJM  
DATE: 3/2012  
CHECKED BY:  
LMN: SWTREAT-AREAS  
CTB: SME-STD

JOB NO. 11156 DWG FILE BASE C-201

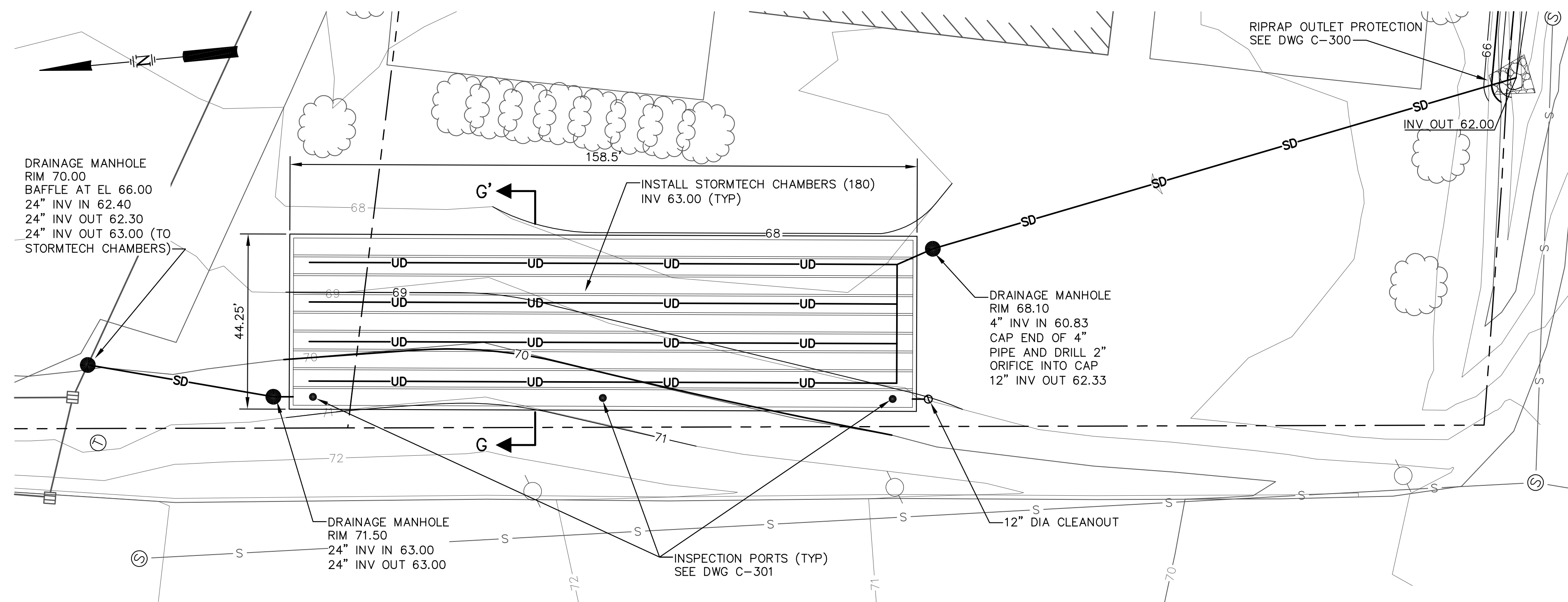




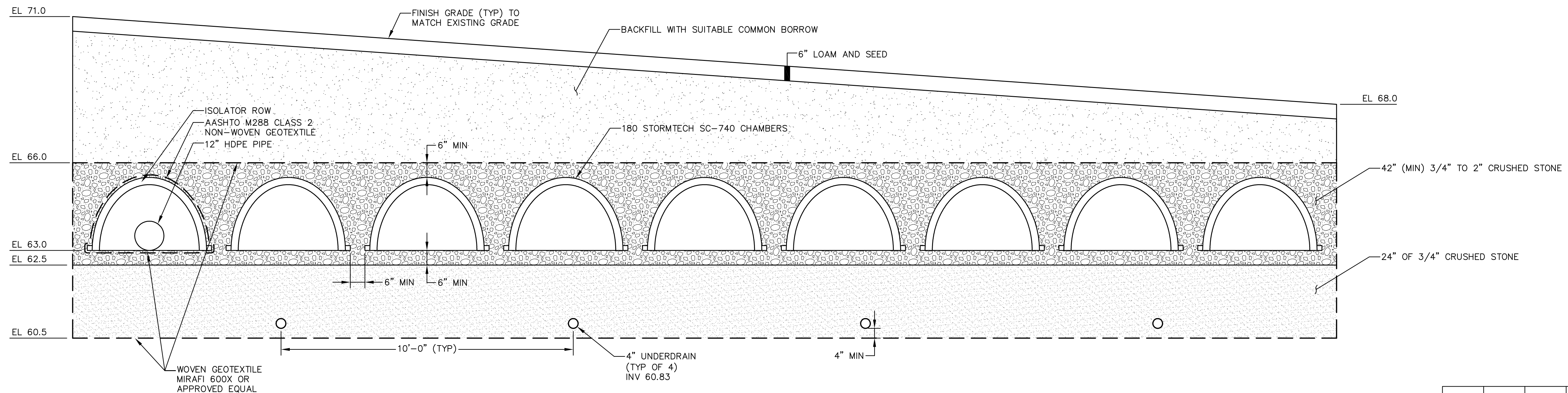








ALTERNATE #1: STORMTECH STORAGE SYSTEM #1



ALTERNATE #1: STORMTECH STORAGE SYSTEM #1 SECTION G-G'  
NTS

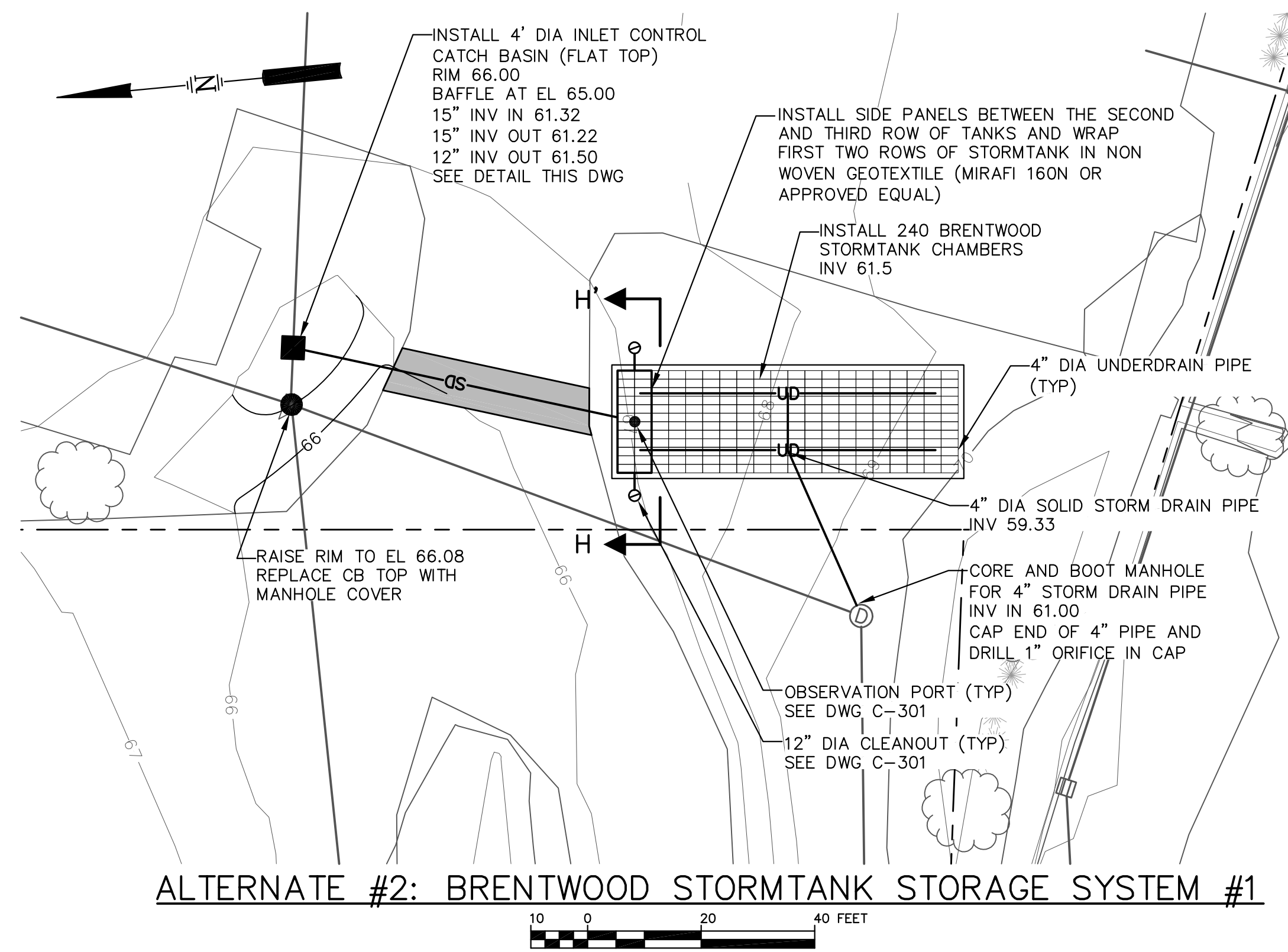
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FOR REVIEW ONLY

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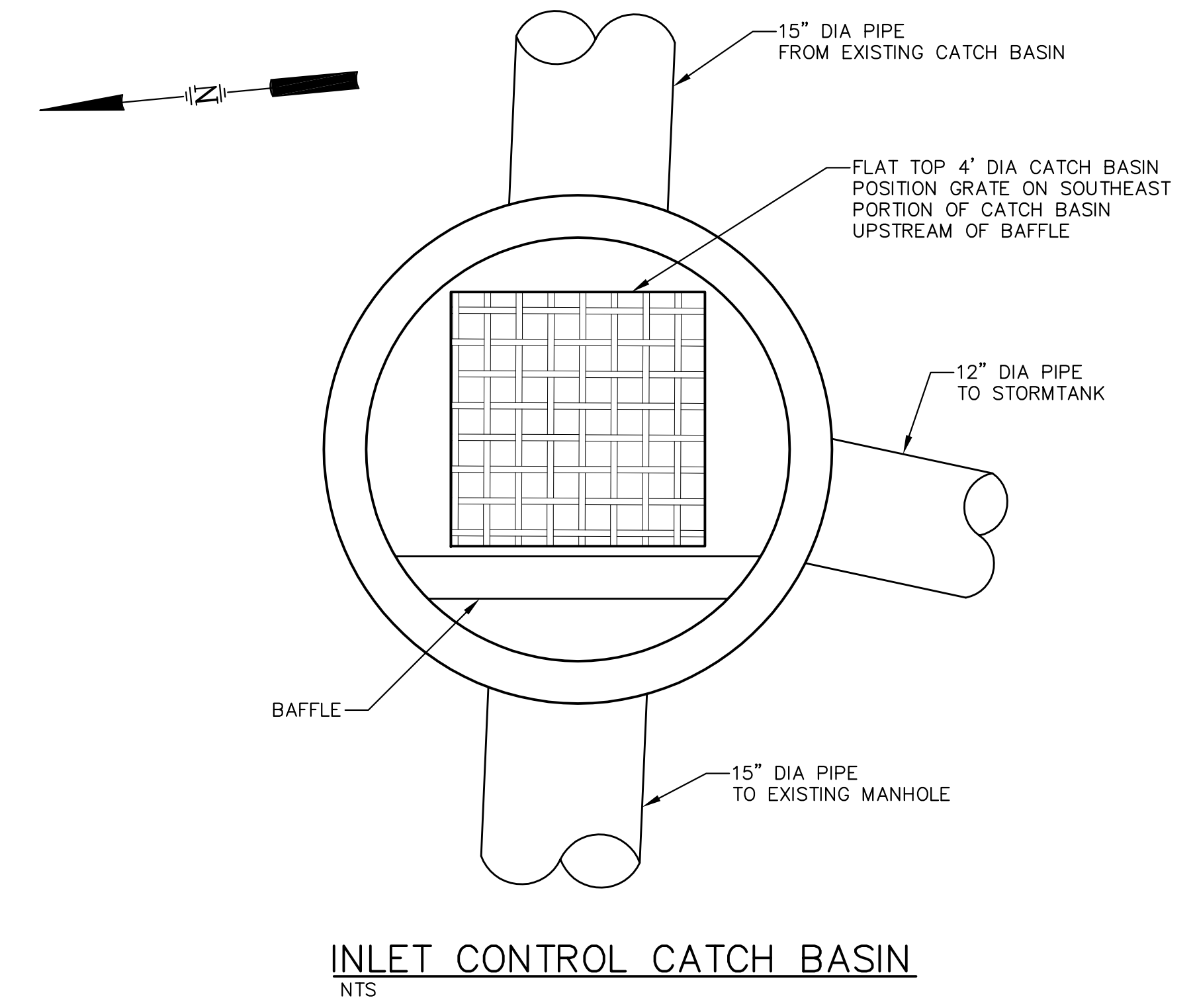
REV.	BY	DATE	STATUS

LONG CREEK WATERSHED MANAGEMENT DISTRICT BLANCHETTE BROOK WATERSHED STORMWATER IMPROVEMENTS WESTBROOK, MAINE STORMWATER TREATMENT AREAS PLANS AND SECTIONS			
 <b>SME</b> Sevee & Maher Engineers, Inc.		DESIGN BY: DPD DRAWN BY: SJM DATE: 3/2012 CHECKED BY: LMN: SWTREAT-AREAS CTB: SME-STD	
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com		JOB NO. 11156    DWG FILE BASE    C-204	

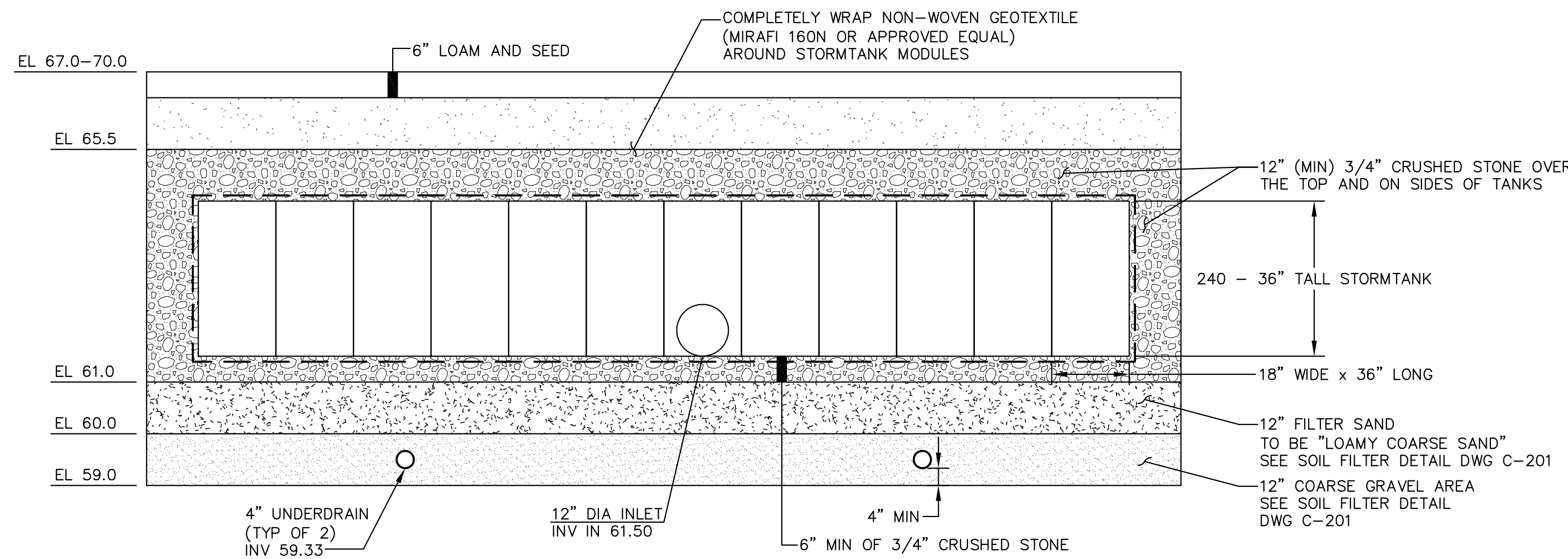




ALTERNATE #2: BRENTWOOD STORMTANK STORAGE SYSTEM #1



INLET CONTROL CATCH BASIN  
NTS



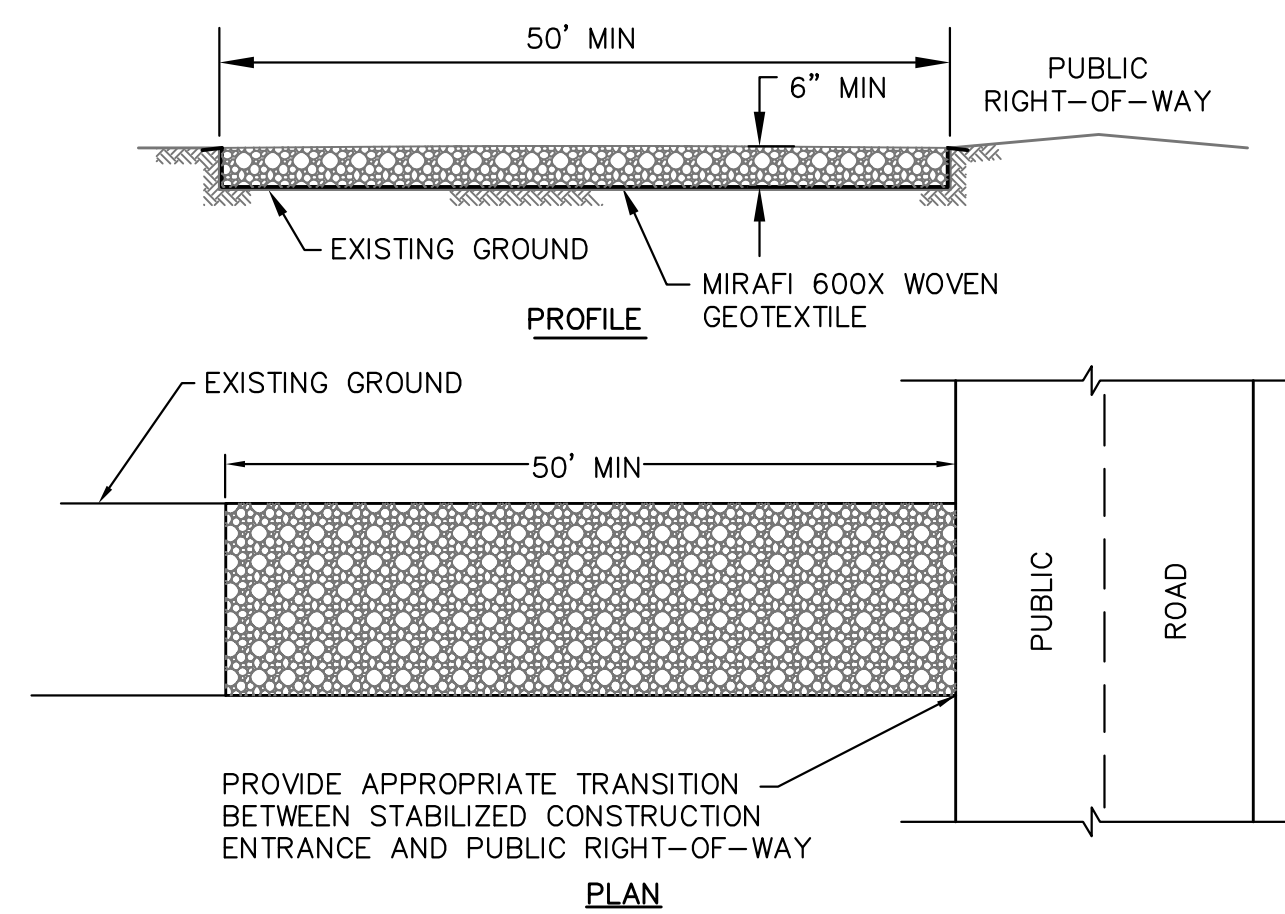
ALTERNATE #2: BRENTWOOD STORMTANK STORAGE SYSTEM #1 SECTION H-H'  
NTS

PRELIMINARY  
FOR REVIEW ONLY

DRAFT

REV.	BY	DATE	STATUS
<p>LONG CREEK WATERSHED MANAGEMENT DISTRICT BLANCHETTE BROOK WATERSHED STORMWATER IMPROVEMENTS WESTBROOK, MAINE</p> <p>STORMWATER TREATMENT AREAS PLANS AND SECTIONS</p>			
<p>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com</p>		<p>DESIGN BY: DPD DRAWN BY: SJM DATE: 3/2012 CHECKED BY: LMN: SWTREAT-AREAS CTB: SME-STD</p>	
<p>JOB NO. 11156 DWG FILE BASE</p>			<p>C-205</p>

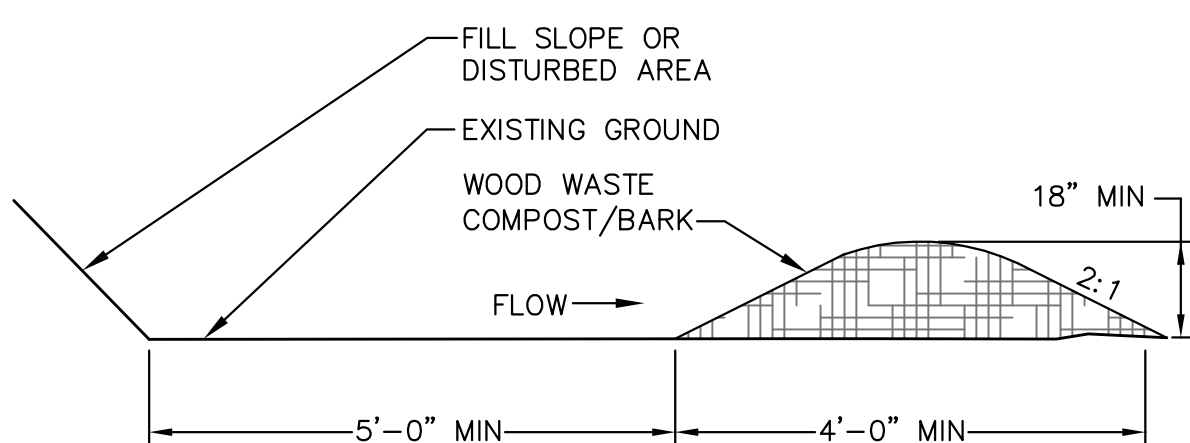




### CONSTRUCTION SPECIFICATIONS

- NOTES:**
- STONE SIZE - 2" TO 3" STONE OR RECLAIMED OR RECYCLED CONCRETE, OR EQUIVALENT.
  - LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
  - THICKNESS - NOT LESS THAN SIX (6) INCHES.
  - WIDTH - 10 FEET MINIMUM, OR NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC REPAIR AND TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

## STABILIZED CONSTRUCTION ENTRANCE/EXIT

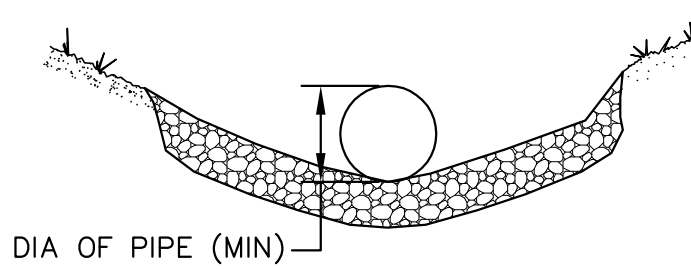


**NOTE:**  
BARK MULCH SEDIMENT BARRIERS MAY BE USED AS AN ALTERNATE TO SILT FENCE WHEN APPROVED BY THE ENGINEER.

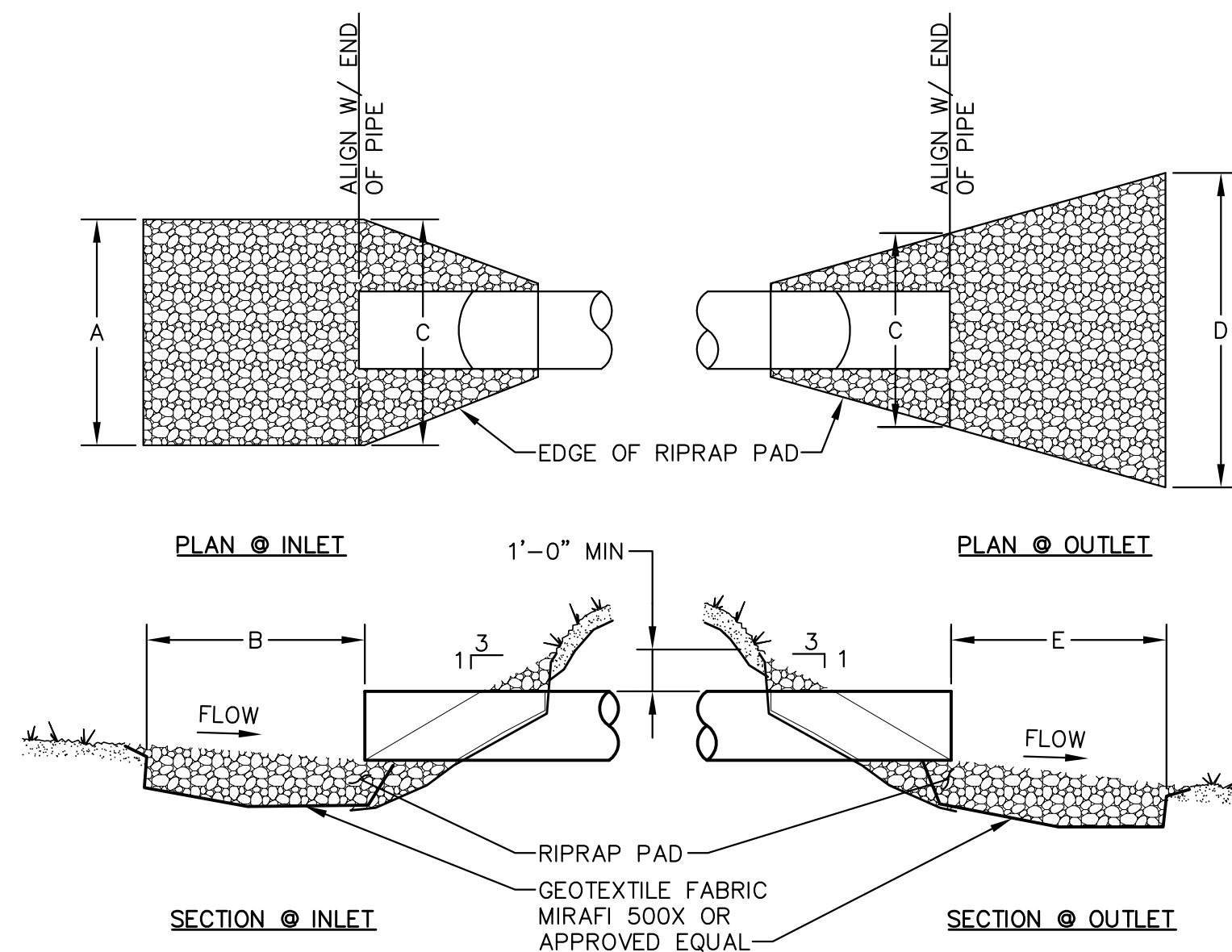
## BARK MULCH SEDIMENT BARRIER

RIPRAP PAD MUST BE INSTALLED WITHIN 48 HOURS OF INSTALLING NEW PIPE OR CULVERT.

PIPE	A	B	C	D	E	PAD DEPTH	D <sub>50</sub>
12"~	3 FT.	2 FT.	3 FT.	9 FT.	8 FT.	6"	4"
15"~	3.75 FT.	2.5 FT.	3.75 FT.	11.5 FT.	10 FT.	6"	4"
18"~	4.5 FT.	3 FT.	4.5 FT.	11.5 FT.	10 FT.	6"	4"
24"~	6 FT.	4 FT.	6 FT.	15 FT.	12 FT.	7.5"	5"
30"~	7.5 FT.	5 FT.	7.5 FT.	20.5 FT.	18 FT.	9"	6"

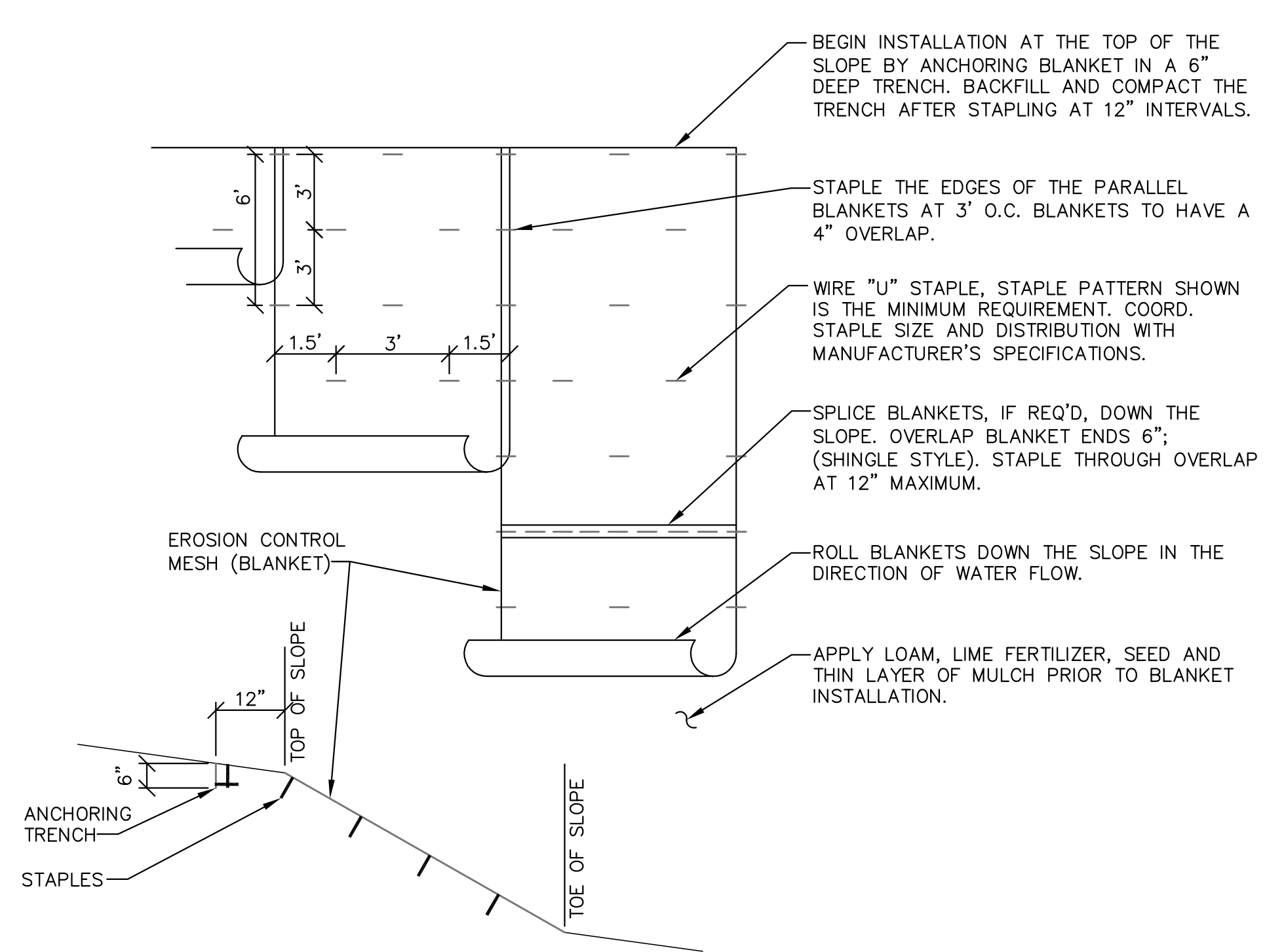


CROSS SECTION



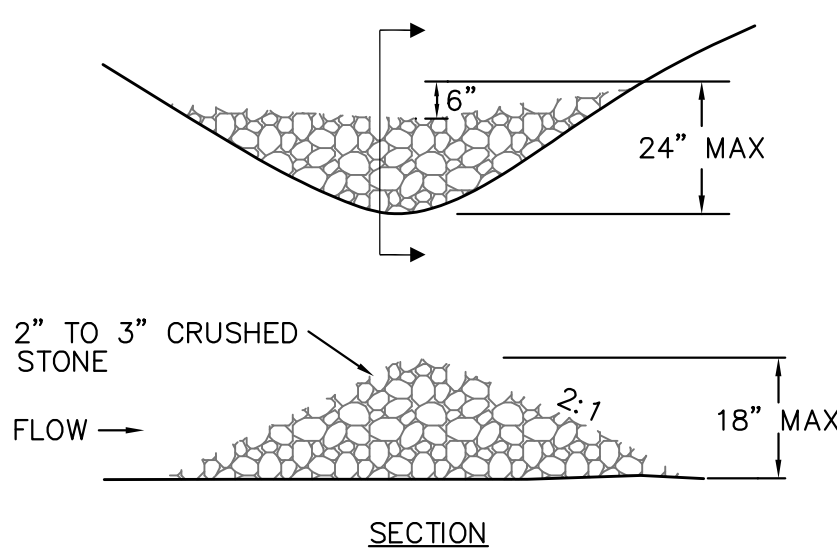
## RIPRAP INLET/OUTLET PROTECTION

NTS



## EROSION CONTROL FABRIC

NTS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

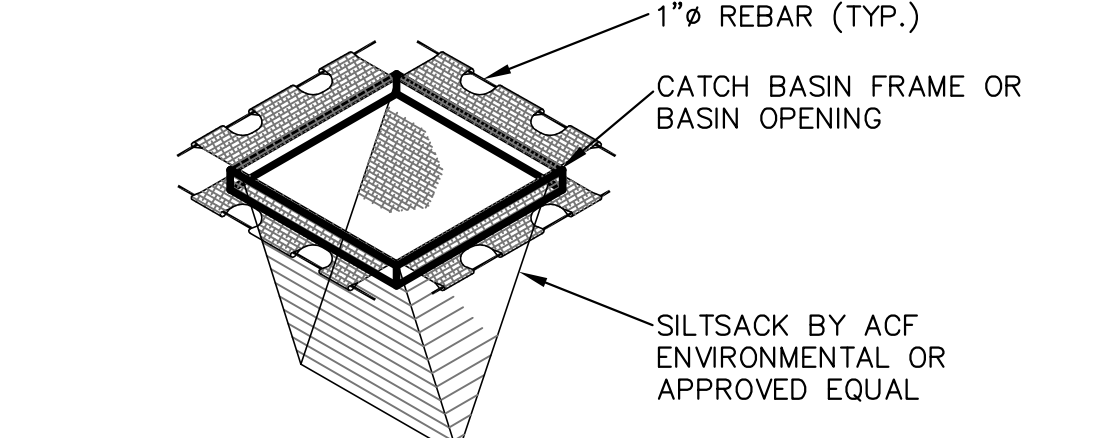
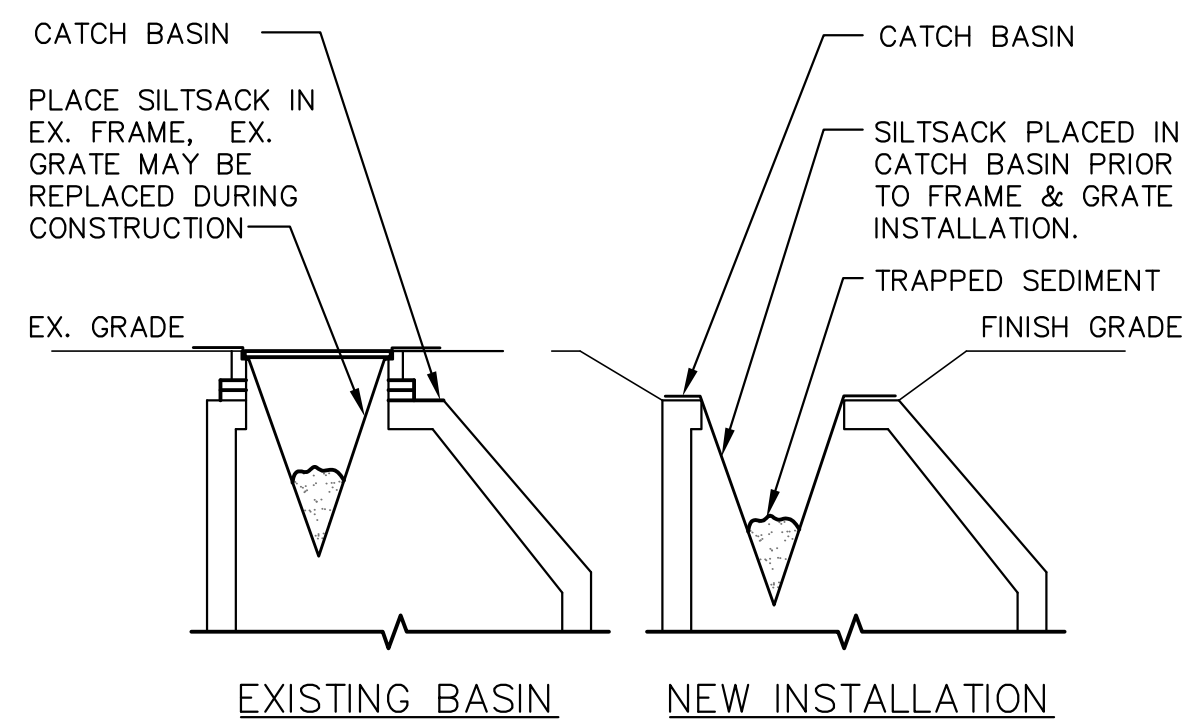
SPACING BETWEEN CHECK DAMS

S <sub>0</sub> (FT/FT)	L (FT)
0.020	75
0.030	50
0.040	40
0.050	30
0.080	20
0.100	10

**NOTE:**  
USE AT ALL NEWLY CONSTRUCTED GRASS LINED DITCHES AS A TEMPORARY EROSION CONTROL MEASURE AND WHERE OTHERWISE NOTED ON PLANS.

## STONE CHECK DAM

NTS



## SILT SACK CATCH BASIN PROTECTION

NTS

### TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL

#### A. GENERAL

- All soil erosion and sediment control will be done in accordance with: (a) the Maine Erosion and Sediment Control Handbook: Best Management Practices, Maine Department of Environmental Protection (MEDEP), March 2003, as currently revised.
- The Contractor will be responsible for the repair/replacement/maintenance of all erosion control measures until all disturbed areas are stabilized.
- Disturbed areas will be permanently stabilized within 7 days of final grading. Disturbed areas not to be worked upon within 14 days of disturbance will be temporarily stabilized within 7 days of the disturbance.
- In all areas, removal of trees, bushes and other vegetation, as well as disturbance of topsoil will be kept to a minimum while allowing proper site operations.
- Any suitable topsoil will be stripped and stockpiled for reuse. Topsoil will be stockpiled in a manner such that natural drainage is not obstructed and no off-site sediment damage will result. In any event, stockpiles will not be located within 100 feet of wetlands and will be at least 50 feet upgradient of the stockpile's perimeter silt fence. The sideslopes of the topsoil stockpile will not exceed 2:1. Silt fence will be installed around the perimeter of all topsoil stockpiles. Topsoil stockpiles will be surrounded with siltation fencing and will be temporarily seeded with Aroostook rye, annual or perennial rye grass within 7 days of formation, or temporarily mulched.

#### B. TEMPORARY MEASURES

##### 1. STABILIZED CONSTRUCTION ENTRANCE/EXIT

A crushed stone stabilized construction entrance/exit will be placed at any point of vehicular access to the site, in accordance with the detail shown on this drawing.

##### 2. SILT FENCE

- Silt fence will be installed prior to all construction activity where soil disturbance may result in erosion. Silt fence will be erected at locations shown on the plans and/or downgradient of all construction activity.
- Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.
- Silt fences will be inspected immediately after each rainfall and at least daily during prolonged rainfall. They will be inspected if there are any signs of erosion or sedimentation below them. Any required repairs will be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, they will be replaced with a temporary crushed stone check dam.

d. Sediment deposits will be removed after each storm event if significant buildup has occurred or if deposits exceed 15 inches in depth.

##### 3. BARK MULCH SEDIMENT BARRIER

- Bark mulch sediment barriers may be used as a substitute for silt fence where approved. See the details shown on this drawing.
- Rock Filter Berms: To provide more filtering capacity or to act as a velocity check dam, a berm's center can be composed of clean crushed rock ranging in size from french drain stone to riprap.

##### 4. TEMPORARY SEEDING

Stabilize disturbed areas that will not be brought to final grade for a year or less and reduce problems associated with mud and dust production from exposed soil surface during construction with temporary vegetation.

##### 5. TEMPORARY MULCHING

Use temporary mulch in the following locations and/or circumstances:

- In sensitive areas (within 100 feet of streams and wetlands) temporary mulch will be applied within 7 days of exposing soil or prior to any storm event.
- Apply temporary mulch within 14 days of disturbance or prior to any storm event in all other areas.
- Areas, which have been temporarily or permanently seeded, will be mulched immediately following seeding.
- Areas which cannot be seeded within the growing season will be mulched for over-winter protection and the area will be seeded at the beginning of the growing season.
- Mulch can be used in conjunction with tree, shrub, vine, and ground cover plantings.
- Mulch anchoring will be used on slopes greater than 5 percent in late fall (post September 15), and over-winter (September 15 - April 15).

The following materials may be used for temporary mulch:

- Hay or Straw material shall be air-dried, free of seeds and coarse material. Apply 2 bales/1,000 sf or 1.5 to 2 tons/acre to cover 90% of ground surface.
- Erosion Control Mix: It can be used as a stand-alone reinforcement:
  - on frozen ground or forested areas; and
  - at the edge of areas under construction.
- Erosion control mix alone is not suitable:
  - on slopes with groundwater seepage;
  - at low points with concentrated flows and in gullies;
  - at the bottom of steep perimeter slopes exceeding 100 feet in length;
  - below culvert outlet aprons; and
  - around catch basins and closed storm systems.
- Chemical Mulches and Soil Binders: Wide ranges of synthetic spray-on materials are marketed to protect the soil surface. These are emulsions that are mixed with water and applied to the soil. They may be used alone, but most often are used to hold wood fiber, hydro-mulches or straw to the soil surface.
- Erosion Control Blankets and Mats: Mats are manufactured combinations of mulch and netting designed to retain soil moisture and modify soil temperature. During the growing season (April 15 to September 15) use mats indicated on drawings or North American Green (NAG) S75 (or mulch and netting) on:
  - the base of grassed waterways;
  - steep slopes (15 percent or greater); and
  - any disturbed soil within 100 feet of lakes, streams, or wetlands.

During the late fall and winter (September 15 to April 15) use heavy grade mats where indicated on drawings for NAG SC250 on all areas noted above plus use lighter grade mats NAG S75 (or mulch and netting) on:

- sideslopes of grassed waterways; and
- moderate slopes (between 8 and 15 percent).

#### 6. TEMPORARY DUST CONTROL

To prevent the blowing and movement of dust from exposed soil surfaces, and reduce the presence of dust, use water or calcium chloride to control dusting by preserving the moisture level in the surface materials.

#### C. PERMANENT MEASURES

1. Riprapped Aprons: All storm drain pipe outlets and the inlet and outlet of culverts will have riprap aprons to protect against scour and deterioration. See detail on this sheet.

2. Topsoil, Seed, and Mulch: All areas disturbed during construction, but not subject to other restoration (paving, riprap, etc.) will be loamed, limed, fertilized, seeded, and mulched.

a. Preparation for Seeding: Use stockpiled materials spread to the depths shown on the plans, if available. Approved topsoil substitutes may be used. Grade the site as needed. Apply fertilizer and lime as needed.

b. Seeding will be completed by August 15 of each year. Late season seeding may be done between August 15 and September 15. Areas not seeded or which do not obtain satisfactory growth by October 1, will be seeded with Aroostook Rye or mulched. After November 1, or the first killing frost, disturbed areas will be seeded at double the specified application rates, mulched, and anchored.

#### PERMANENT SEEDING SPECIFICATIONS

Mixture:	Lawn (lbs/acre)
Kentucky Bluegrass	55
White Clover	0
Creeping Red Fescue	55
Perennial Rye grass	15

c. Mulch in accordance with specifications for temporary mulching.

d. If permanent vegetated stabilization cannot be established due to the season of the year, all exposed and disturbed areas not to undergo further disturbance are to have dormant seeding applied and be temporarily mulched to protect the site.

3. Catch basins will be provided with sumps.

#### F. MAINTENANCE PLAN

1. Routine Maintenance: Inspection will be by a qualified person during wet weather to ensure that the facility performs as intended. Inspection priorities will include checking erosion controls for accumulation of sediments.

#### G. CONSTRUCTION SEQUENCE

The expected sequence of construction will be

- Mobilization
- Install temporary erosion control measures
- Strip and prepare areas for construction
- Stockpile loam
- Construct new stormwater management measures
- Pave parking areas disturbed
- Site stabilization, pavement, loam and seed, and landscaping
- Complete construction and clean all stormwater management structures
- Remove temporary erosion control measures

REV.	BY	DATE	STATUS

LONG CREEK WATERSHED MANAGEMENT DISTRICT  
BLANCHETTE BROOK WATERSHED  
STORMWATER IMPROVEMENTS  
WESTBROOK, MAINE

## EROSION CONTROL NOTES AND DETAILS

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CHECKED BY:  
LMN: NONE  
CTB: SME-STD

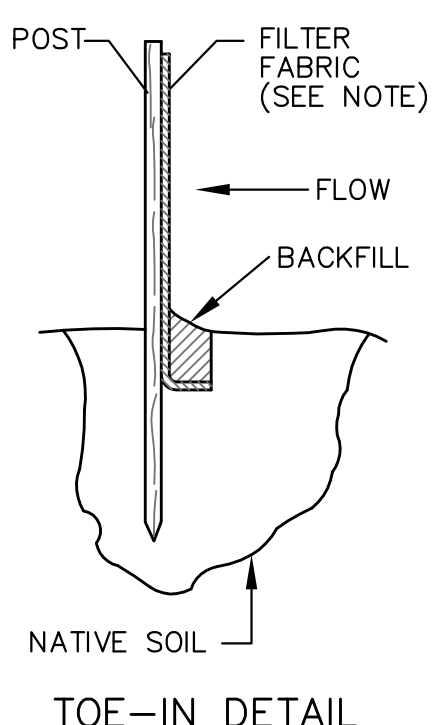
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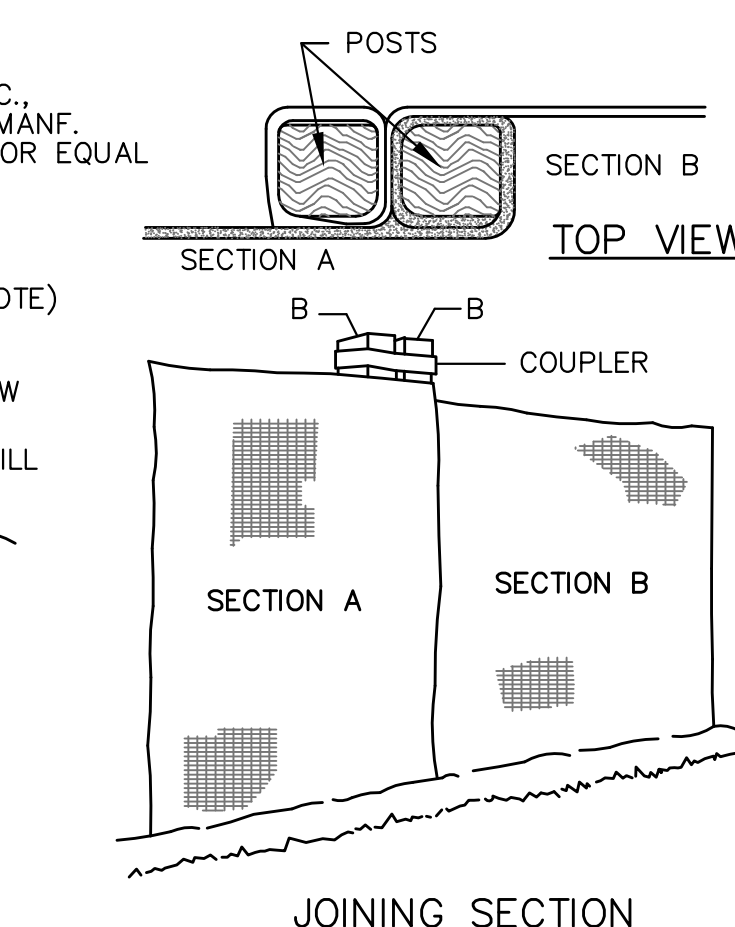
PRELIMINARY  
FOR REVIEW ONLY

DRAFT

**NOTE:** SILTATION FENCE SHALL BE ENVIROFENCE AS MANF. BY MIRAFI INC., PROPEX SILT STOP AS MANF. BY AMOCO FABRIC CO. OR EQUAL



TOE-IN DETAIL



## SILT FENCE

NTS



