TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

TITLE	DWG NO
COVER SHEET	
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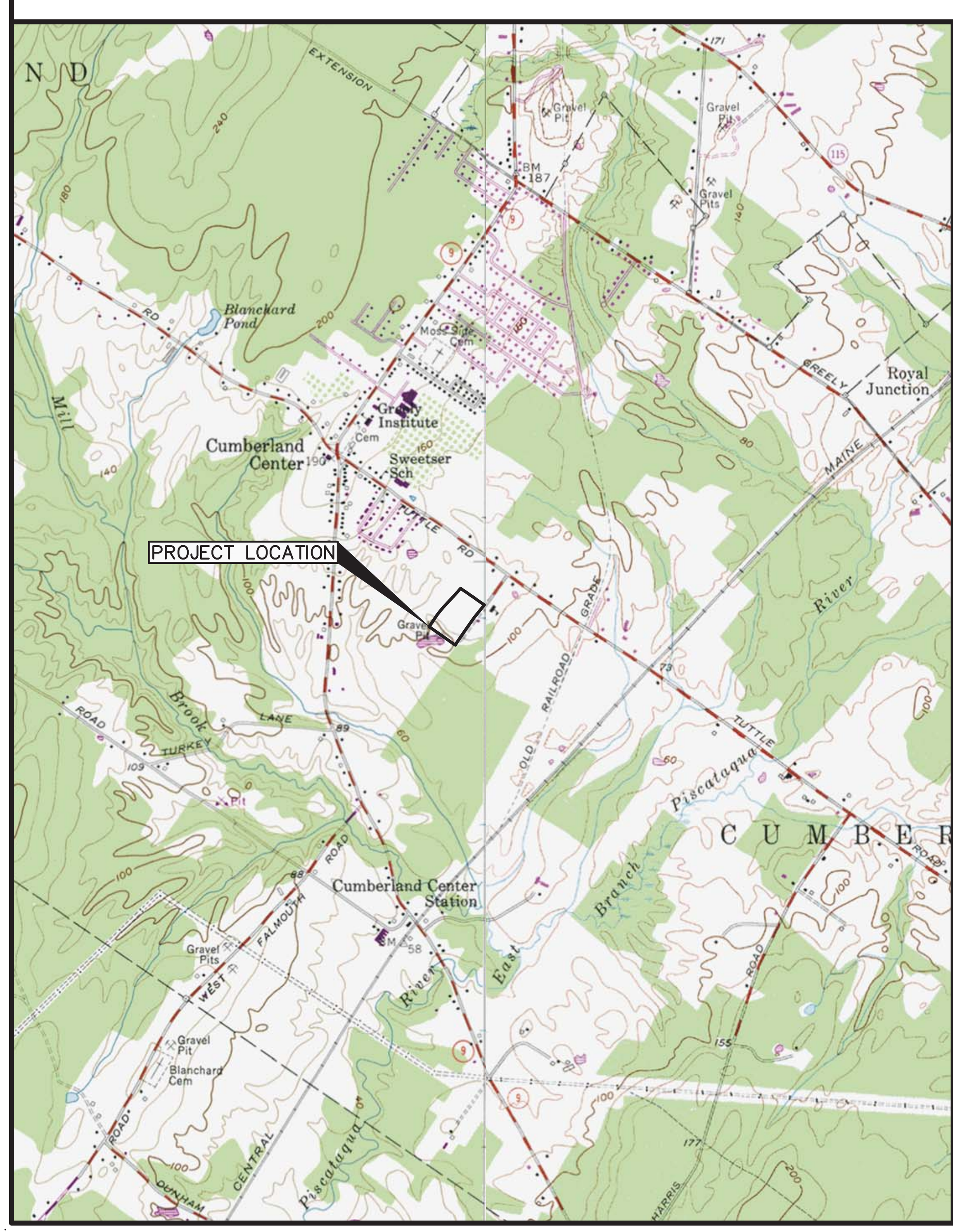
LOCATION MAP



SME
Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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SYMBOLS

EXISTING	PROPOSED	
		NORTH ARROW (TRUE)
DATE		NORTH ARROW (MAGNETIC)
N		NORTH ARROW (PLAN NORTH)
25	25	CONTOUR LINES
	INV 25.56	SPOT ELEVATION (INVERT ELEVATION)
		EXISTING GROUND
		PROPERTY LINE OR R.O.W.
N35°-10'-10"W 251.17'	N35°-10'-10"W 251.17'	PROPERTY LINE W/ BEARING AND DISTANCE
	0+00 1+00	CONSTRUCTION BASELINE
		RAILROAD
		SURVEY MONUMENT
		SURVEY CONTROL
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE
		WOODS OR BRUSH LINE
		INDIVIDUAL TREE
		WETLAND
		GAS VENT
		CLEAN OUT STRUCTURE
		CULVERT
		REDUCER
		MECHANICAL CAP OR PLUG
		COUPLING
		BEND
		TEE
		PIPE TO BE ABANDONED
		LIGHT POLE
		DRAINAGE INLET STRUCTURE

EXISTING	PROPOSED	
		DRAINAGE COURSE (WITH DIRECTION)
		EDGE OF WATER
		WATER ELEVATION (GROUND OR SURFACE)
		FENCE LINE (STOCKADE)
x	x	FENCE LINE (WIRE)
		STONE WALL
		RETAINING WALL
		GUARD RAIL
		BUILDING AND STRUCTURES
	2 1 OR 2:1	SLOPE RATIO (HORIZONTAL TO VERTICAL)
		SLOPES (WITH SLOPE RATIO)
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		BITUMINOUS PAVEMENT
		CONCRETE
B-12 MW-12 P-12	B-12 MW-12 P-12	TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER
TP-12	TP-12	TEST PIT AND NUMBER
SW-12	SW-12	SURFACE WATER SAMPLE LOCATION
		GAS EXTRACTION WELL
		MANHOLE
		CATCH BASIN
		WATER OR GAS VALVE
		HYDRANT
		UTILITY POLE

EXISTING	PROPOSED	
G	G	UNDERGROUND GAS MAIN
UCC	UCC	UNDERGROUND TELEPHONE LINE
UGE	UGE	UNDERGROUND ELECTRICAL LINE
OHU	OHU	OVERHEAD ELECTRICAL LINE
OT	OT	OVERHEAD TELEPHONE LINE
12"SS	12"SS	SANITARY SEWER
8"FM	8"FM	FORCE MAIN
8"W	8"W	WATER MAIN
12"SD	12"SD	STORM DRAIN
8"UD	8"UD	UNDERDRAIN
6"PD	6"PD	PERIMETER DRAIN
6"LT	6"LT	LEACHATE TRANSPORT
6"LC	6"LC	LEACHATE COLLECTION
6"LD	6"LD	LEAK DETECTION
6"GC	6"GC	GAS COLLECTION
	SB	SEDIMENT BARRIER
	SF	SILTATION FENCE
	CLL	CLEARING LIMIT LINE
	LOW	LIMIT OF WORK

ACCMP	ASPHALT COATED CMP
ACP	ASBESTOS CEMENT PIPE
AC	ACRE
AGG	AGGREGATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARMH	AIR RELEASE MANHOLE
ASB	ASBESTOS
ASP	ASPHALT
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AZ	AZIMUTH
BCCMP	BITUMINOUS COATED CMP
BM	BENCH MARK
BIT	BITUMINOUS
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
BV	BALL VALVE
CB	CATCH BASIN
CEN	CENTER
CEM LIN	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CLASS
CLL	CLEARING LIMIT LINE
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CS	CURB STOP
CTR	CENTER
CU	COPPER
CY	CUBIC YARD
D	DEGREE OF CURVE
DBL	DOUBLE
DEG OR °	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DMH	DRAINAGE MANHOLE
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EG	EXISTING GROUND OR GRADE
ELEC	ELECTRIC
EL	ELEVATION
ELB	ELBOW
EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EST	ESTIMATED
EXC	EXCAVATE
EXIST	EXISTING
FG	FINISH GRADE
FBRGL	FIBERGLASS
FDN	FOUNDATION
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPS	FEET PER SECOND
FT OR '	FEET
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GAS COLLECTION
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GT	GAS TRANSPORT
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HP	HORSEPOWER
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
INV EL	INVERT ELEVATION
LB	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LF	LINEAR FEET
LOC	LOCATION
LOW	LIMIT OF WORK
LT	LEACHATE TRANSPORT
MH	MANHOLE
MJ	MECHANICAL JOINT
MATL	MATERIAL
MAX	MAXIMUM
MFR	MANUFACTURE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/F	NOW OR FORMERLY
NO OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PD	PERIMETER DRAIN
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PT	POINT OF TANGENT
PERF	PERFORATED
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SMH	SANITARY MANHOLE
ST	STREET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TYP	TYPICAL
UD	UNDERDRAIN
V	VOLTS
VA TEE	VALVE ANCHORING TEE
VERT	VERTICAL
WG	WATER GATE
W/	WITH
W/O	WITHOUT
YD	YARD

VIEW MARKERS AND IDENTIFICATION

SECTION TITLE AND NO

ACCESS ROAD 3

C-100

DRAWING WHERE SECTION APPEARS

DETAIL TITLE

MANHOLE
SEE DWG C-300

DRAWING WHERE DETAIL APPEARS

REV.	BY	DATE	STATUS
	BDP	6/2017	ISSUED FOR CONSTRUCTION
	DPD	2/2017	ISSUED FOR BID
	BDP	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE
GUY H. COTE, JR.
5144
LICENSED
PROFESSIONAL ENGINEER

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

SYMBOLS AND ABBREVIATIONS

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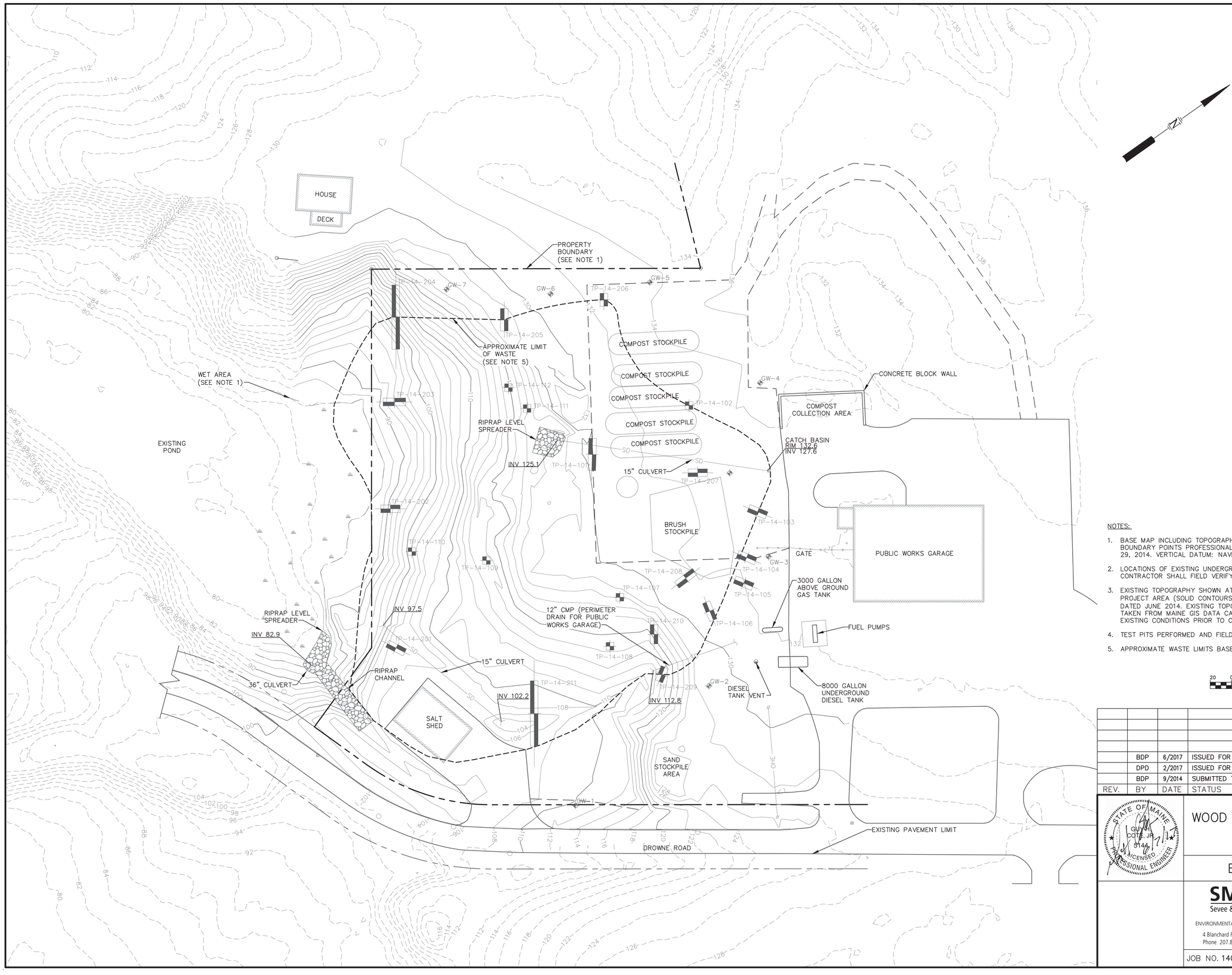
DESIGN BY: CEB
DRAWN BY: JRL
DATE: 7/24/14
CHECKED BY: GHC
LMN: LMN
CTB: SME-STD

JOB NO. 14092.01 DWG FILE SYMSHT

C-100



NOTES:

1. BASE MAP INCLUDING TOPOGRAPHY, PROPERTY BOUNDARY, AND SITE FEATURES PREPARED BY BOUNDARY POINTS PROFESSIONAL LAND SURVEYING, LLC, CUMBERLAND, MAINE, DATED JUNE 29, 2014. VERTICAL DATUM: NAVD 1988. HORIZONTAL DATUM: NAD83.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS PLAN AND CONTRACTOR SHALL FIELD VERIFY THE UTILITIES EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS. EXISTING TOPOGRAPHY WITHIN THE PROJECT AREA (SOLID CONTOURS) BY BOUNDARY POINTS PROFESSIONAL LAND SURVEYING, LLC, DATED JUNE 2014. EXISTING TOPOGRAPHY OUTSIDE OF PROJECT AREA (DASHED CONTOURS) TAKEN FROM MAINE GIS DATA CATALOG DATED 2012. CONTRACTOR SHOULD FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
4. TEST PITS PERFORMED AND FIELD SURVEYED BY SME IN 2014.
5. APPROXIMATE WASTE LIMITS BASED ON TEST PITTING BY SME.

20 0 40 80 FEET

REV.	BY	DATE	STATUS
	BDP	6/2017	ISSUED FOR CONSTRUCTION
	DPD	2/2017	ISSUED FOR BID
	BDP	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE
GUY R. COTE, JR.
5144
LICENSED PROFESSIONAL ENGINEER
7/7/14

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

EXISTING CONDITIONS PLAN

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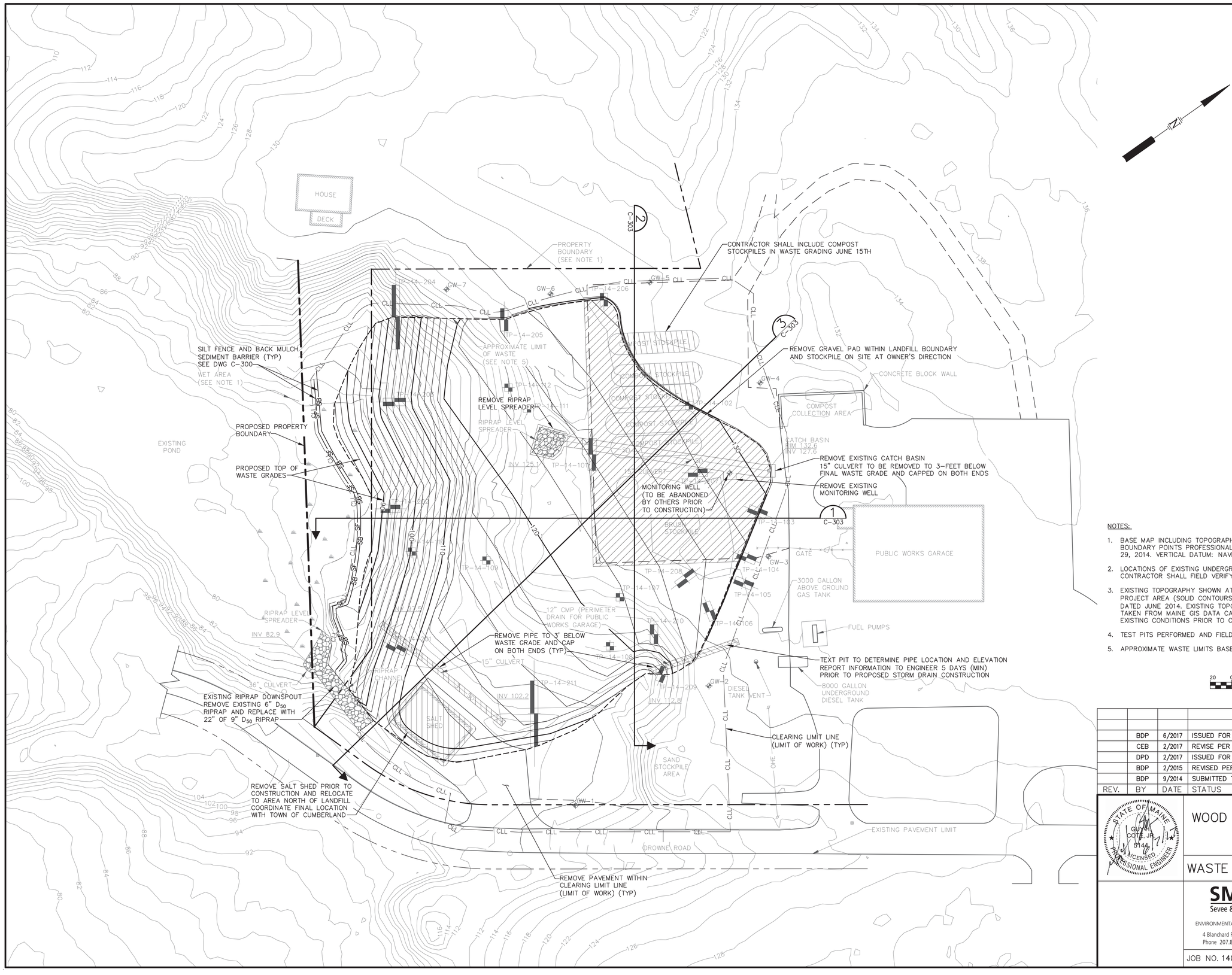
JOB NO. 14092.01 DWG FILE BASE

C-101



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20 0 40 80 FEET

REV.	BY	DATE	STATUS
	BDP	6/2017	ISSUED FOR CONSTRUCTION
	CEB	2/2017	REVISE PER ADDENDUM NO. 1
	DPD	2/2017	ISSUED FOR BID
	BDP	2/2015	REVISED PER MEDEP COMMENTS
	BDP	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE GUY H. COTE, JR. 8144 LICENSED PROFESSIONAL ENGINEER

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

WASTE GRADING AND DEMOLITION PLAN

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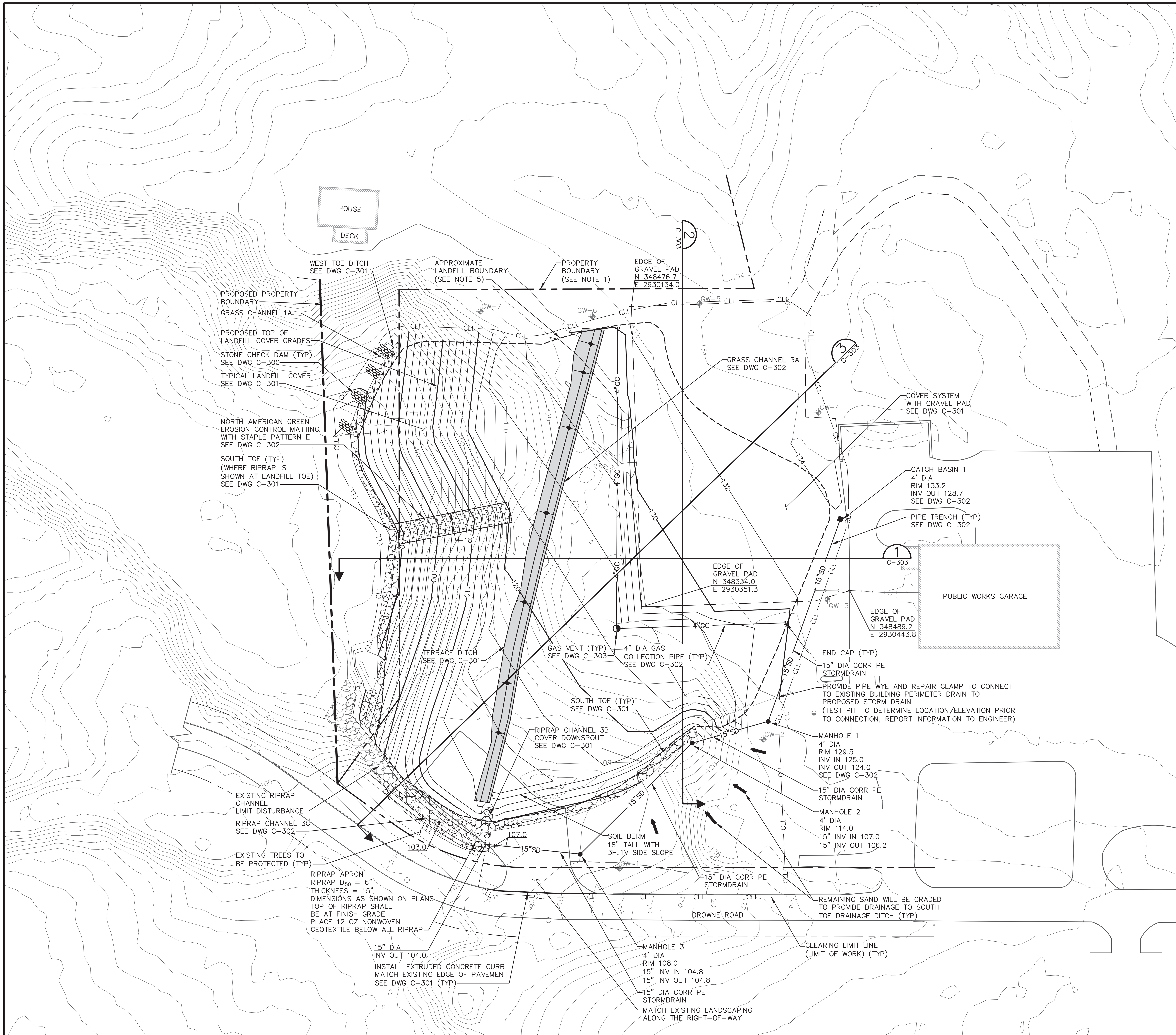
CTB: SME-STD

JOB NO. 14092.01 DWG FILE BASE

C-102



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20 0 40 80 FEET

REV.	BY	DATE	STATUS
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	CEB	2/2017	REVISE PER ADDENDUM NO. 1
	DPD	2/2017	ISSUED FOR BID
	BDP	2/2015	REVISED PER MEDEP COMMENTS
	BDP	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE
GUY H. COTE, JR.
5144
LICENSED PROFESSIONAL ENGINEER

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

FINAL GRADING PLAN

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JOB NO. 14092.01 DWG FILE BASE

C-103

A. GENERAL

1. All soil erosion and sediment control will be done in accordance with: (1) the Maine Erosion and Sediment Control Handbook: Best Management Practices, Maine Department of Environmental Protection (MEDEP), March 2003

2. The contractor will be responsible for the repair/replacement/ maintenance of all erosion control measures until all disturbed areas are stabilized.

3. 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.

4. 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.

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 sheet.

2. SILT FENCE

a. 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 downgrade of all construction activity.

b. Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.

c. 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 build–up has occurred or if deposits exceed half the height of the barrier.

3. STONE CHECK DAMS

Stone check dams will be installed in grass–lined swales and ditches during construction.

4. BARK MULCH SEDIMENT BARRIER

a. Where approved, bark mulch sediment barriers may be used as a substitute for silt fence. See the details in this drawing set for specifications.

b. 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 the french drain stone to riprap.

5. TEMPORARY SEEDING

Stabilize disturbed areas that will not be brought to final grade for a year or less. Temporary seeding rate is 112 lbs/acre of Winter Rye.

6. TEMPORARY MULCHING

Use temporary mulch in the following locations and/or circumstances:
- In sensitive areas (within 100 feet of streams, wetlands and in lake watersheds) temporary mulch will be applied within 7 days of exposing spill 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 (past October 15), and over–winter (October 15 - April 1).

The following materials may be used for temporary mulch:

a. Hay or Straw material shall be air–dried, free of seeds and coarse material. Apply 2 bales/1,000 sf or 2 tons/acre to cover ground surface.

b. Erosion Control Mix: It can be used as a stand–alone reinforcement:
- on slopes 2 horizontal to 1 vertical or less;
- on frozen ground or forested areas; and
- at the edge of gravel parking areas and areas under construction.

c. 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.

d. 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.

e. 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 October 15) use mats indicated on drawings

7. VEGETATIVE SOIL STOCKPILES SHALL BE AT LOCATIONS DESIGNATED BY THE TOWN.
a. Stockpiles shall not be placed within 100 feet of wetlands and will be at least 50 feet upgradiant of the stockpoles perimeter silt fence.

b. Sideslopes of stockpiles will not exceed 2:1.

c. Silt fence will be installed around the perimeter of all topsoil stockpiles.

d. Temporarily seed stockpiles within 7 days with aroostook rye, annual or perennial ryegrass.

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.

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. Seeded Preparation: Use stockpiled materials spread to the depths shown on the plans, if available. Approved topsoil substitutes may be used. Grade the site as needed.

b. Seeding will be completed between August 1 and September 15 of each year. Late season seeding may be done between September 15 and October 15. Areas not seeded or which do not obtain satisfactory growth by October 15, 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:	Percentage
Kentucky Bluegrass	15%
White Clover	5%
Creeping Red Fescue	50%
Annual Ryegrass	25%
Red Top	2%
Birdsfoot Trefoil	3%

Permanent seeding rate is 100 lbs/acre

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. Ditches and Channels: All ditches on–site will be lined with North American Green S75 erosion control matting (or an approved equal) upon installation of loam and seed.

D. OVER–WINTER CONSTRUCTION EROSION CONTROL MEASURES

1. Stabilization of Disturbed Soil: By October 15, all disturbed soils on areas having a slope less than 15 percent will be seeded and mulched. If the contractor fails to stabilize these soils by this date, then the contractor shall stabilize the soil for late fall and winter, by using either temporary seeding or mulching.

2. Stabilization of Disturbed Slopes: All slopes to be vegetated will be completed by October 15. The owner will consider any area having a grade greater than 15 percent (6.5H:1V) to be a slope. Slopes not vegetated by October 15 will receive one of the following actions to stabilize the slope for late fall and winter:

a. Stabilize the soil with temporary vegetation and erosion control mesh.
b. Stabilize the slope with erosion control mix.
c. Stabilize the slope with stone riprap.

3. Stabilization of Ditches and Channels: All stone–lined ditches and channels to be used to convey runoff through the winter will be constructed and stabilized by November 15. Grass–lined ditches and channels will be complete by September 15. Grass–lined ditches not stabilized by September 15 shall be lined with either sod or riprap.

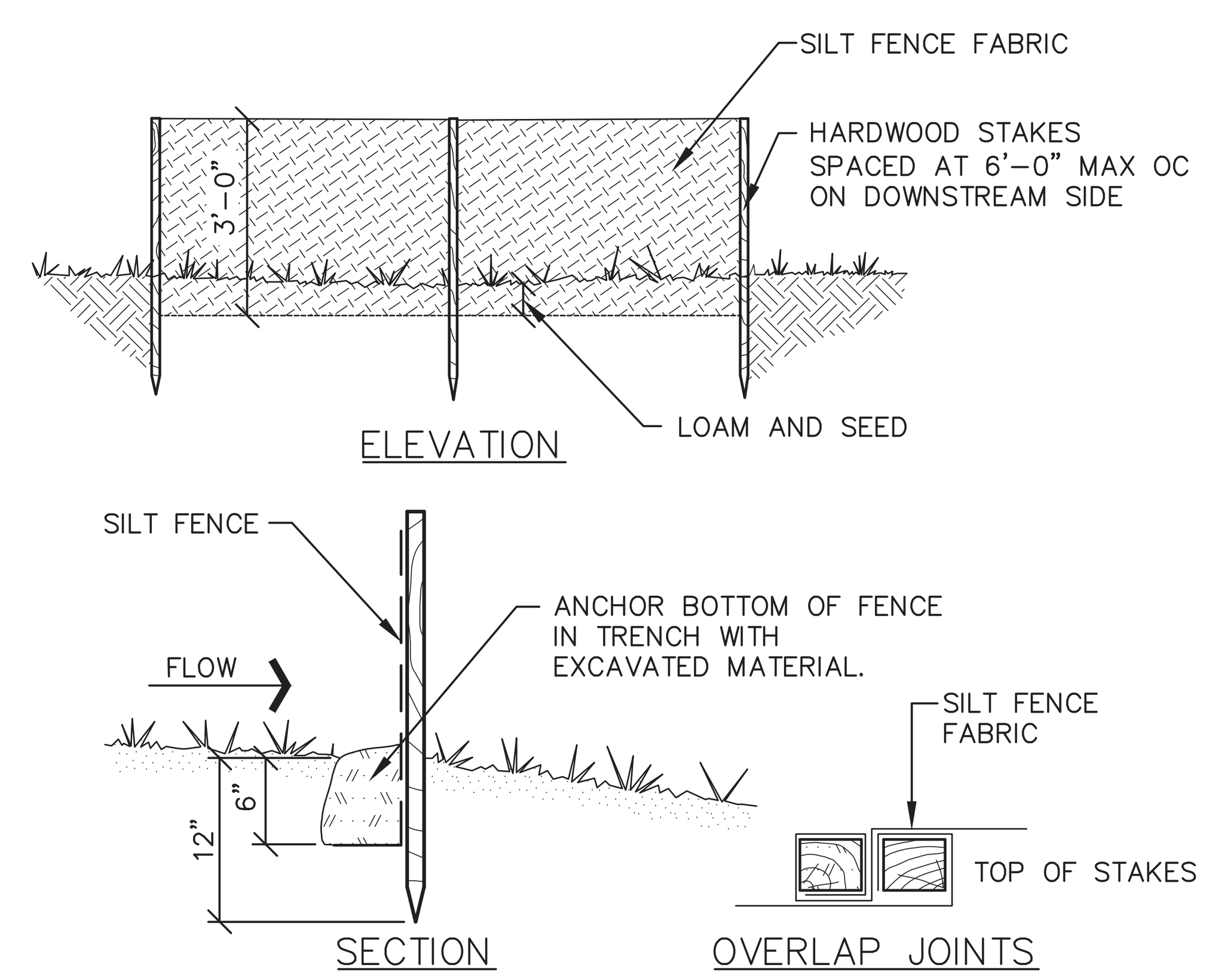
E. MAINTENANCE PLAN

1. Routine Maintenance: Inspection will be performed as outlined in the project's Erosion Control Plan. 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.

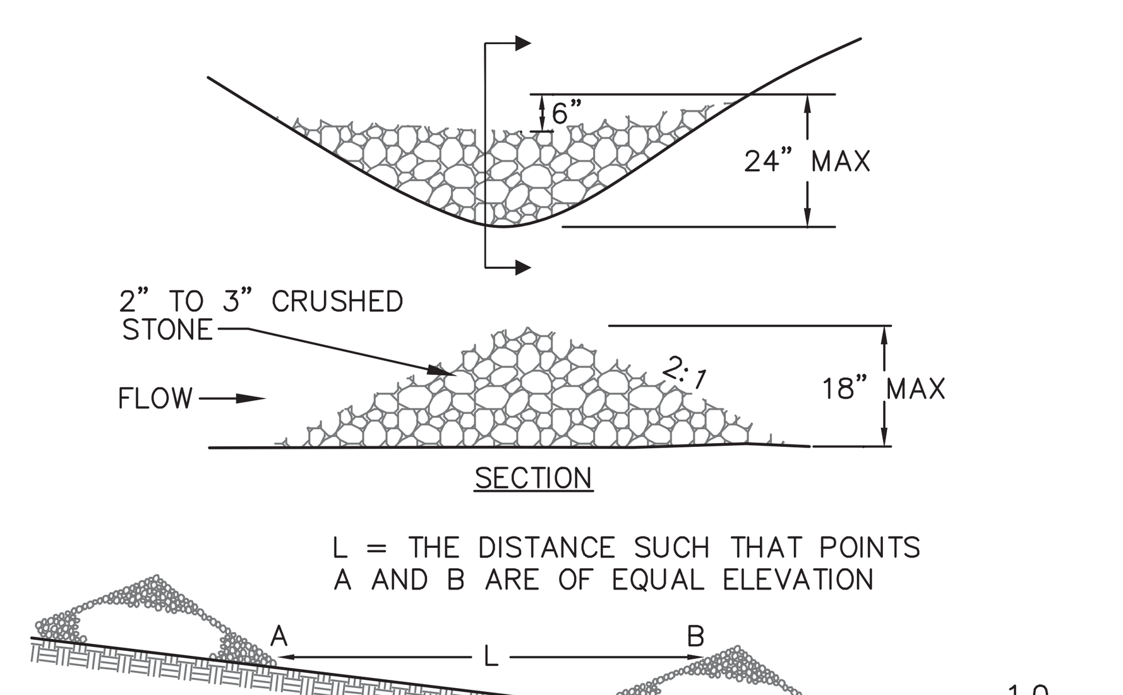
G. CONSTRUCTION SEQUENCE

In general, the expected sequence of construction for each phase is provided below.

- Site preparation;
- Install temporary erosion control measures;
- Perform site demolition/removal;
- Regrade landfill;
- Install gas vent sand;
- Install barrier soil;
- Install gravel pad (geotextile, common borrow and gravel);
- Install terrace ditch, downspout, and perimeter ditches;
- Install vegetative soil;
- Seed and mulch;
- Clean sediment from temporary collection structures;
- Remove temporary erosion control measures after all disturbed areas are stabilized.



SILT FENCE
NTS

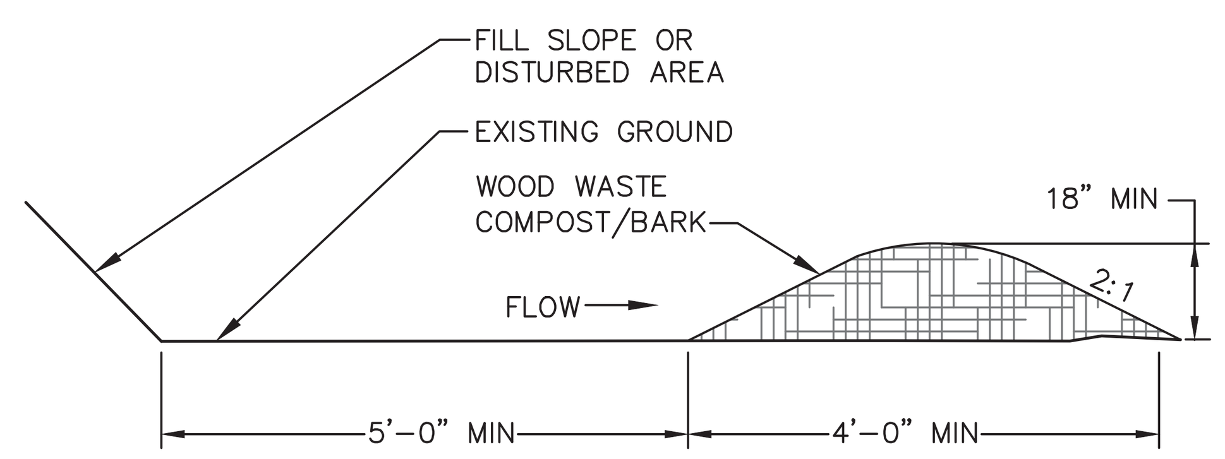


SPACING BETWEEN CHECK DAMS

So (FT/FT)	L (FT)
0.020	75
0.030	50
0.040	40
0.050	30
0.080	20
0.100	10

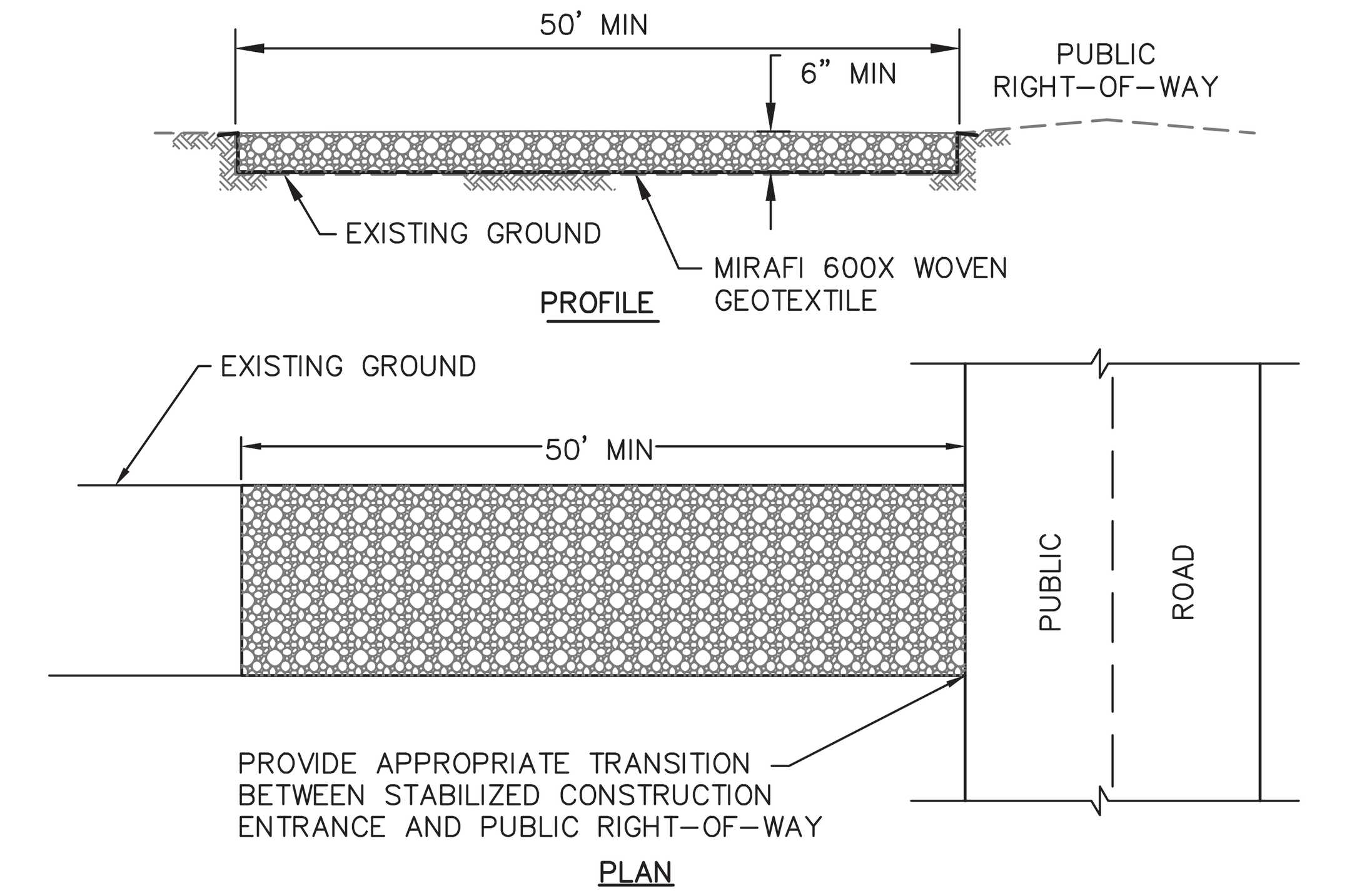
NOTE:
USE AT ALL NEWLY CONSTRUCTED GRASS LINED DITCHES AS A TEMPORARY EROSION CONTROL MEASURE AND WHERE OTHERWISE NOTED ON PLANS.

STONE CHECK DAM
NTS



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

BARK MULCH SEDIMENT BARRIER
NTS



CONSTRUCTION SPECIFICATIONS

NOTES:
1. STONE SIZE – 2" TO 3" STONE OR RECLAIMED OR RECYCLED CONCRETE, OR EQUIVALENT.

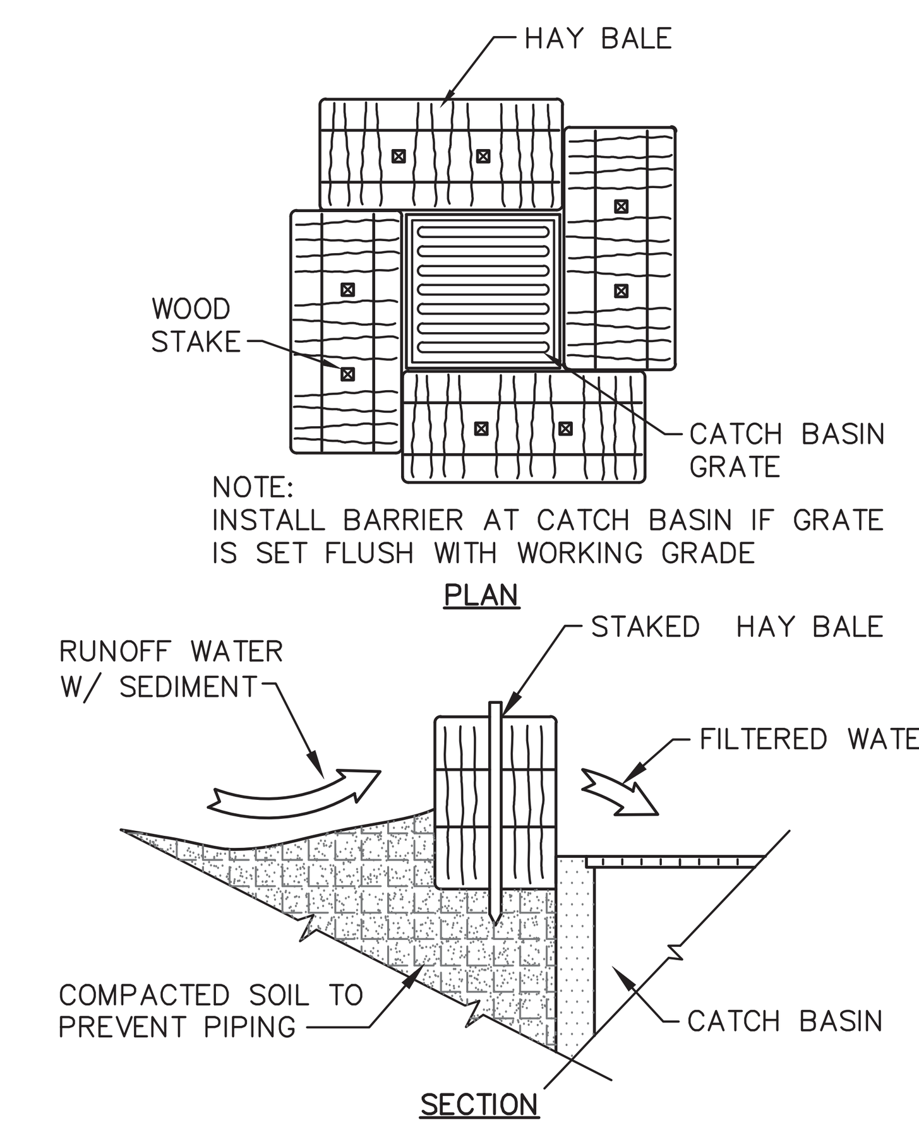
2. LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

3. THICKNESS – NOT LESS THAN SIX (6) INCHES.

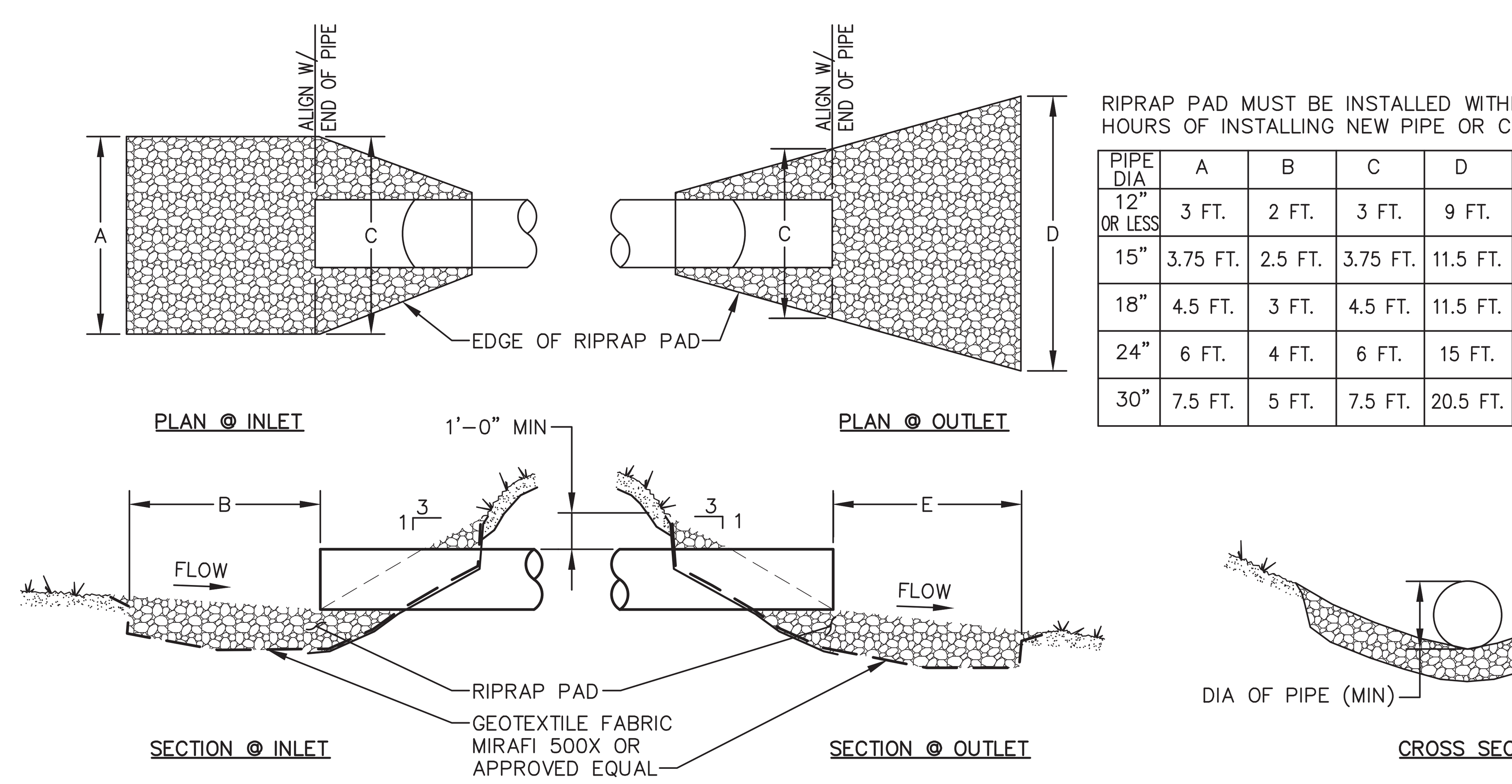
4. WIDTH – 10 FEET MINIMUM, OR NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. 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
NTS



CATCH BASIN INLET PROTECTION
NTS



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

PIPE DIA	A	B	C	D	E	PAD DEPTH	D_{50}
12" OR LESS	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"

RIPRAP INLET/OUTLET PROTECTION
NTS

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	BDP	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE
GUY H. COTE, JR.
5144
LICENSED PROFESSIONAL ENGINEER

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

EROSION CONTROL NOTES AND DETAILS

SME
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4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

DESIGN BY: BDP
DRAWN BY: JRL
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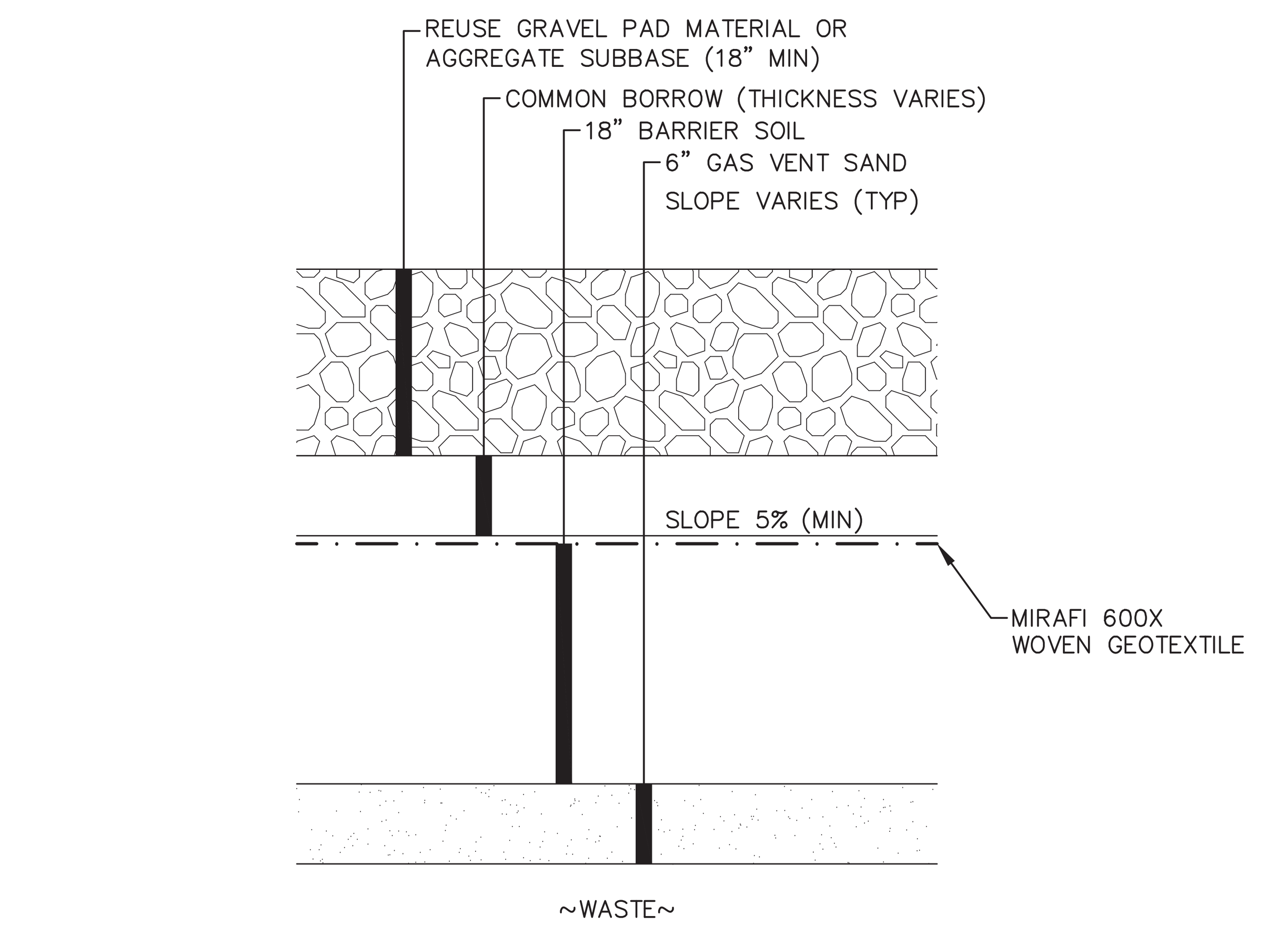
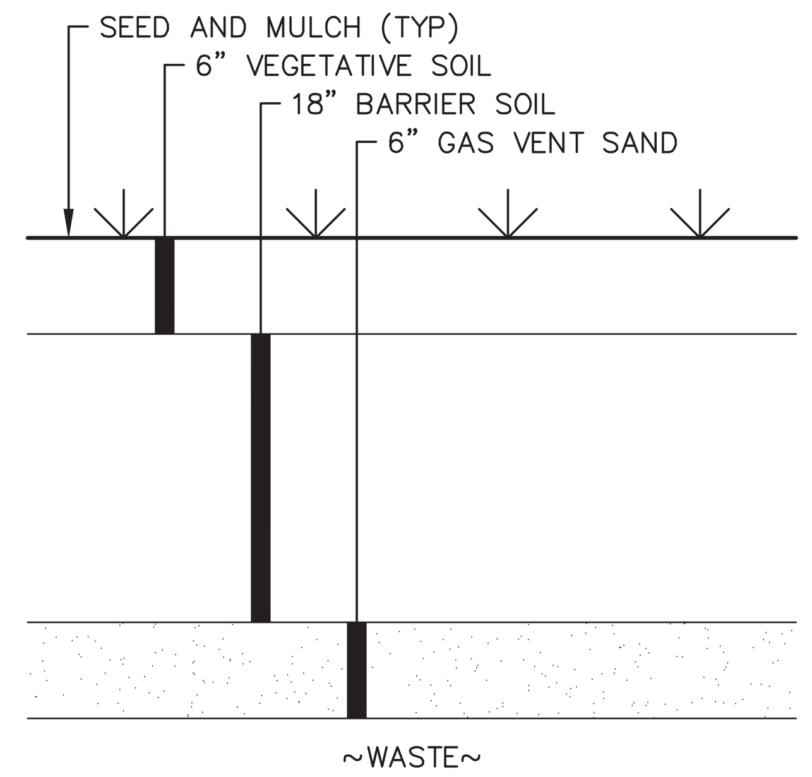
CHECKED BY: GHC
LMN: NONE
CTB: SME–STD

JOB NO. 14092.01 DWG FILE DETAILS

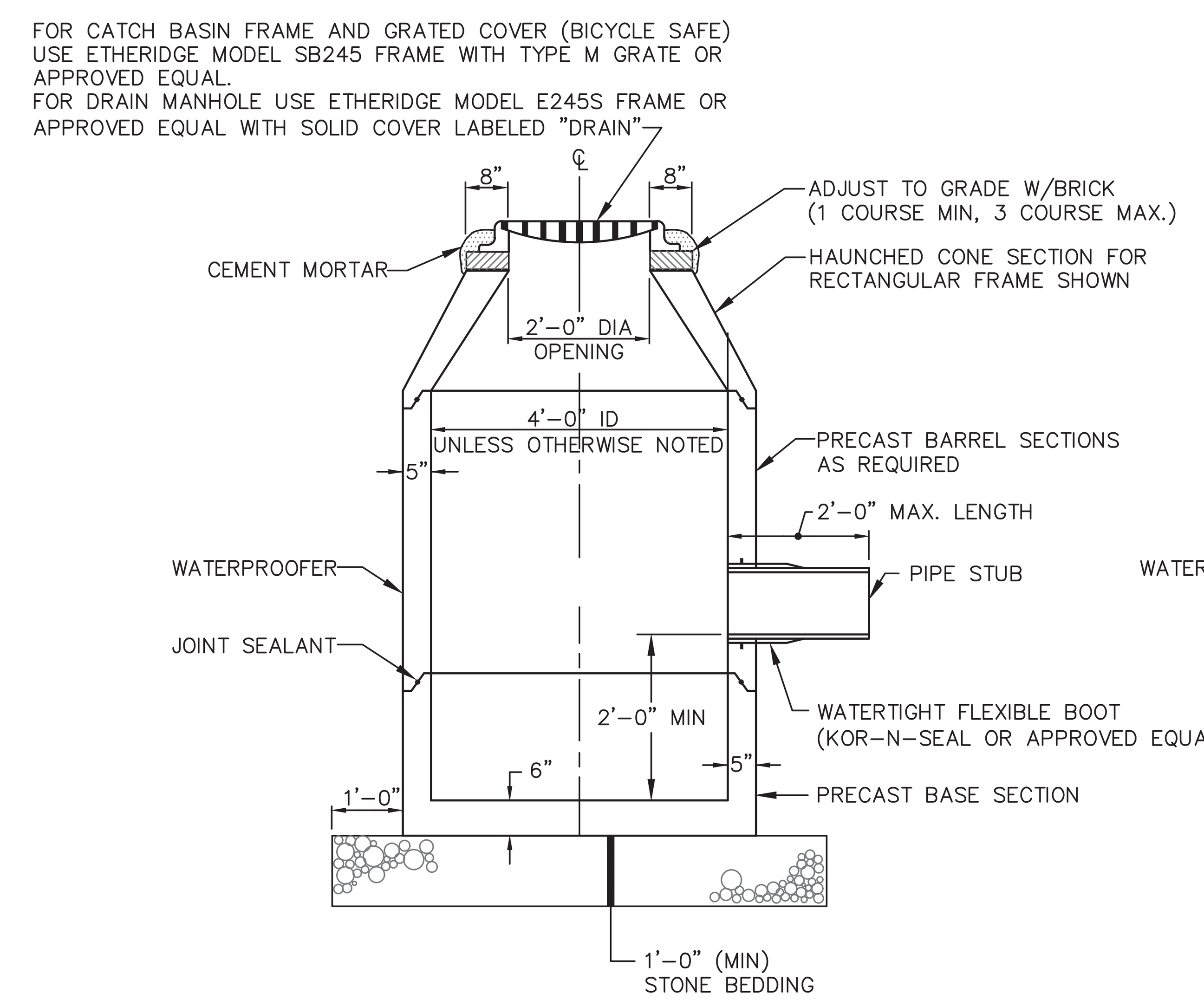
C–300



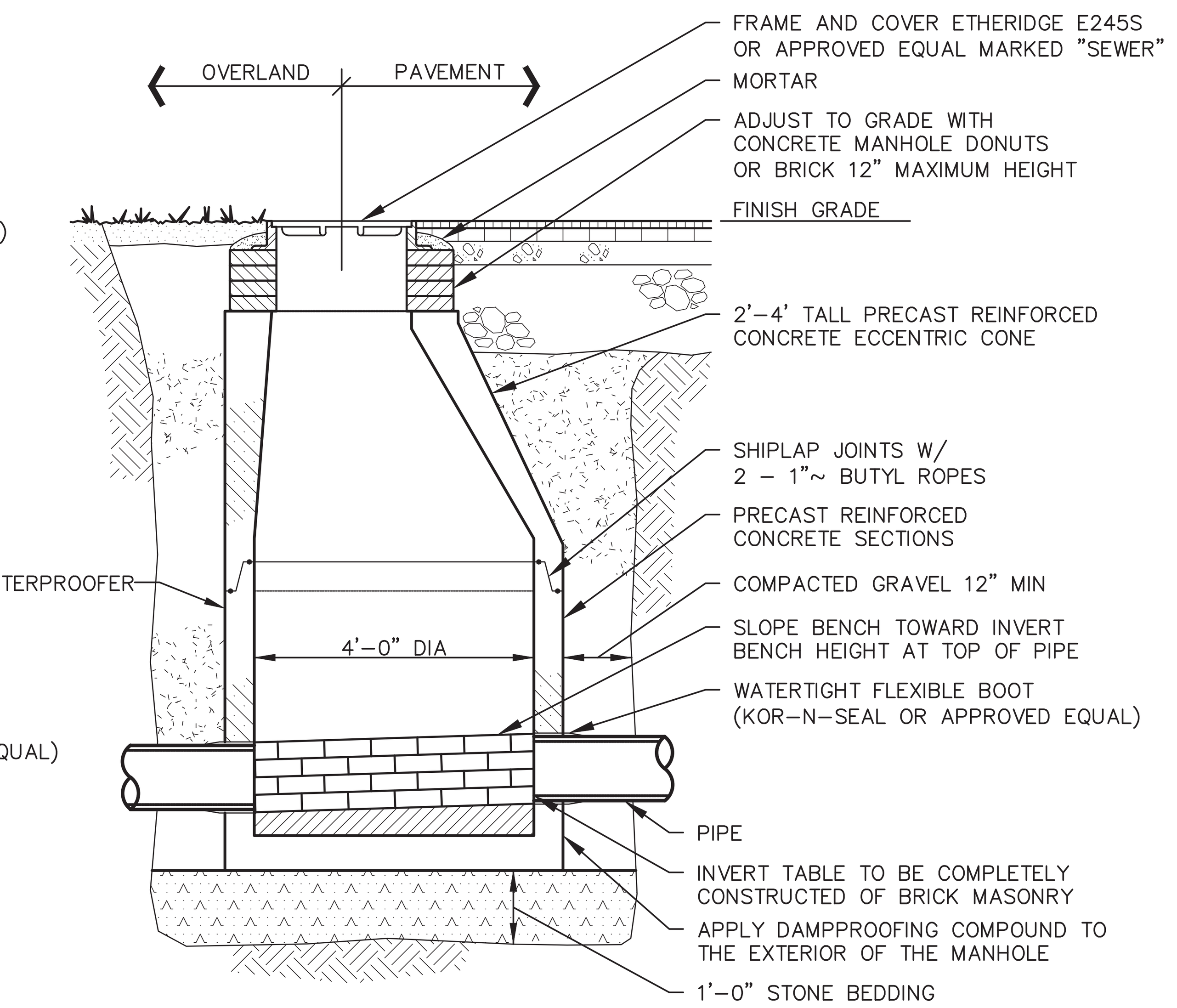
COVER SYSTEM WITH GRAVEL PAD
NTS



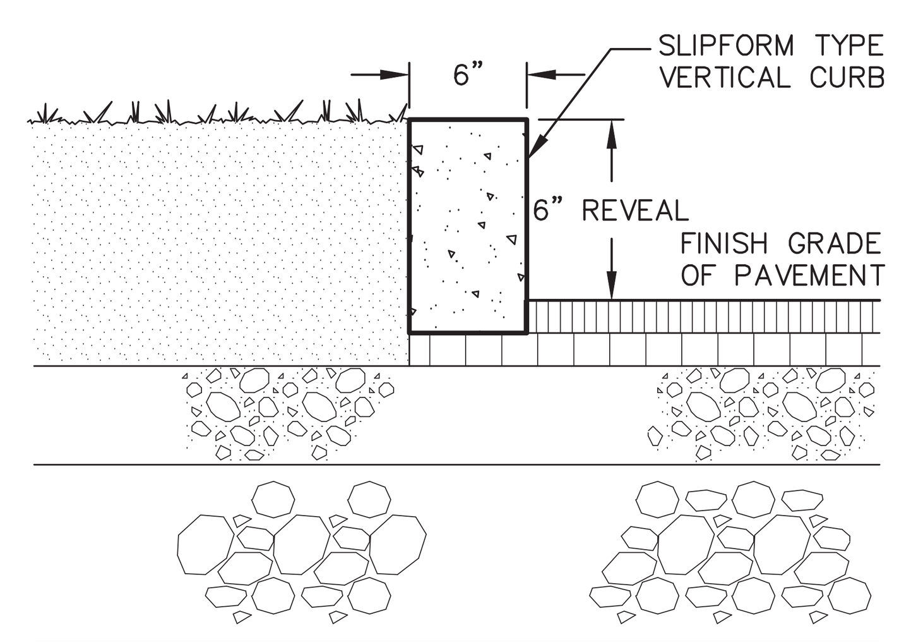
TYPICAL LANDFILL COVER
NTS



CATCH BASIN AND DRAIN MANHOLE
NTS



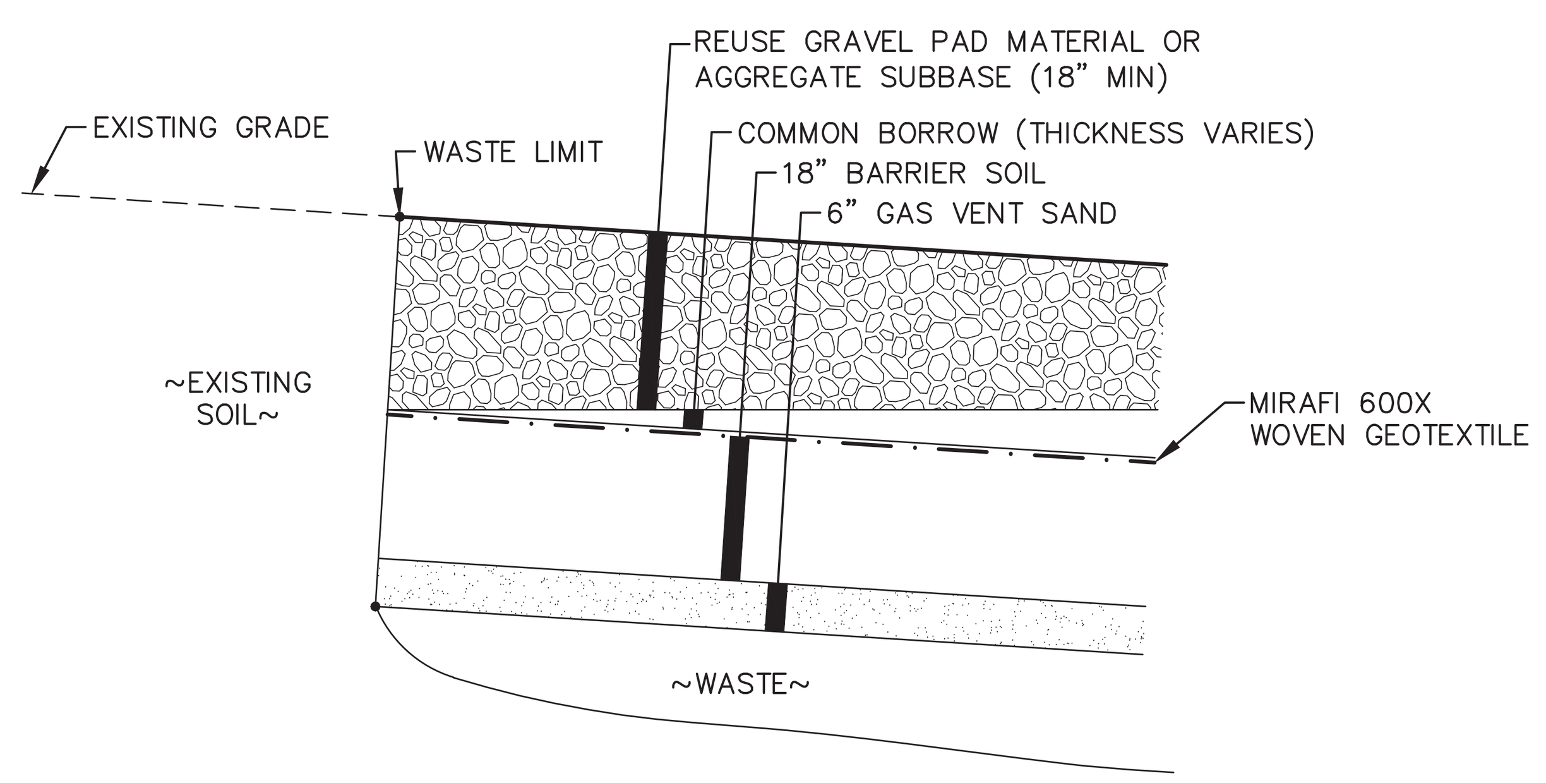
CONCRETE MANHOLE SECTION
NTS



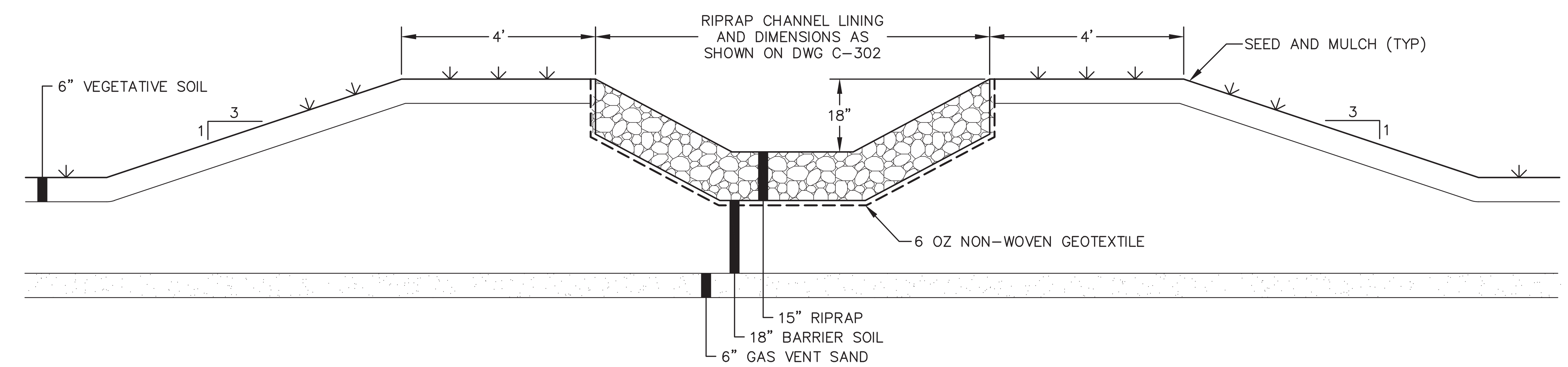
CONCRETE NOTES:

1. MINIMUM 28 DAY COMPRESSIVE STRENGTH: 4,000 PSI
2. AIR ENTRAINMENT: 4% TO 6%
3. REINFORCING: FIBERMESH OR EQUIVALENT GRACE PRODUCT
4. STRAND LENGTH 1–1/2", 1" TO 1–1/2 LB/CUBIC YARD
5. SLUMP: 1" TO 1–1/2"
6. FINISH:
   a. VERTICAL AND TOP FACES: SMOOTH SLIPFORM
   b. SLOPED FACES: BROOM
7. JOINTS: SAWCUT 10' OC 3" DEEP THE DAY AFTER PLACING
8. SEALER: SALTGUARD OR EQUAL WATER BASED SEALER

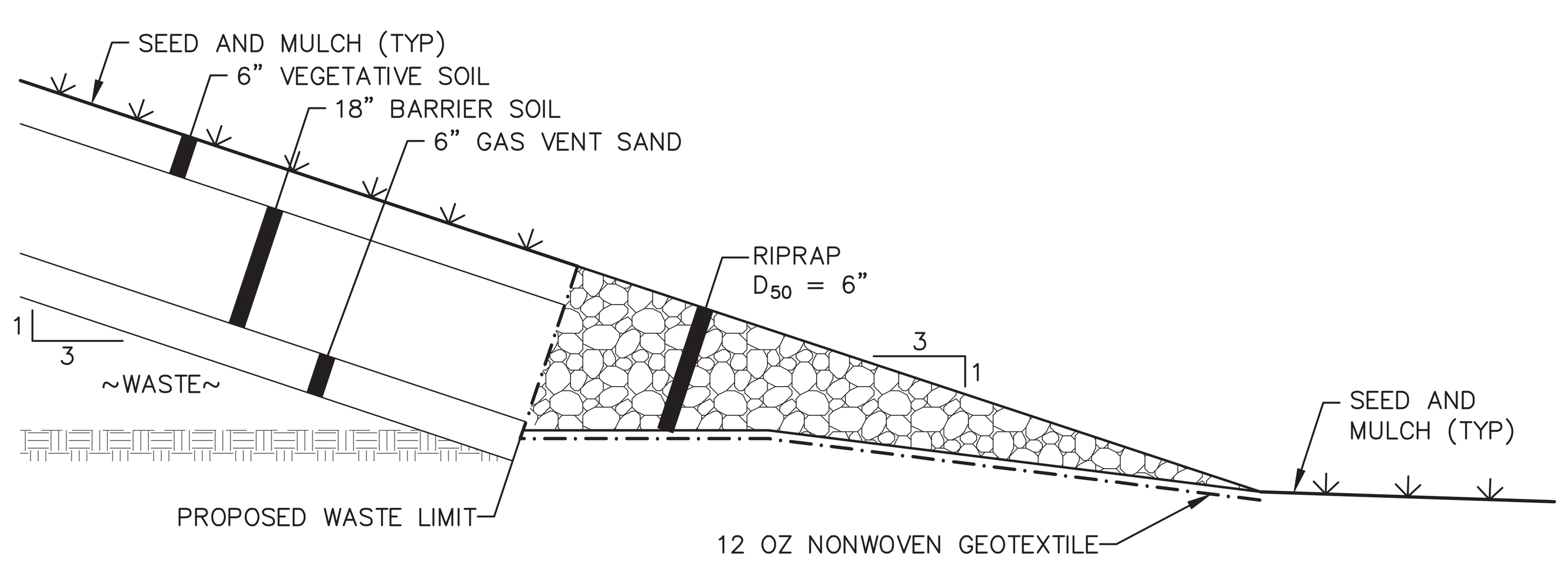
EXTRUDED CONCRETE CURB
NTS



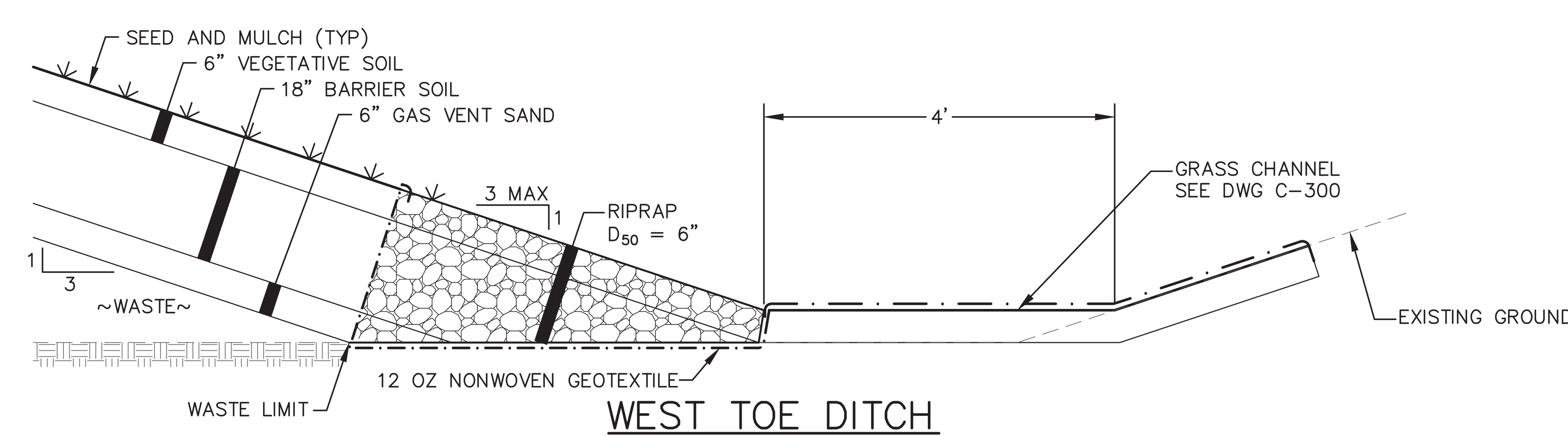
WASTE LIMIT AT GRAVEL PAD
NTS



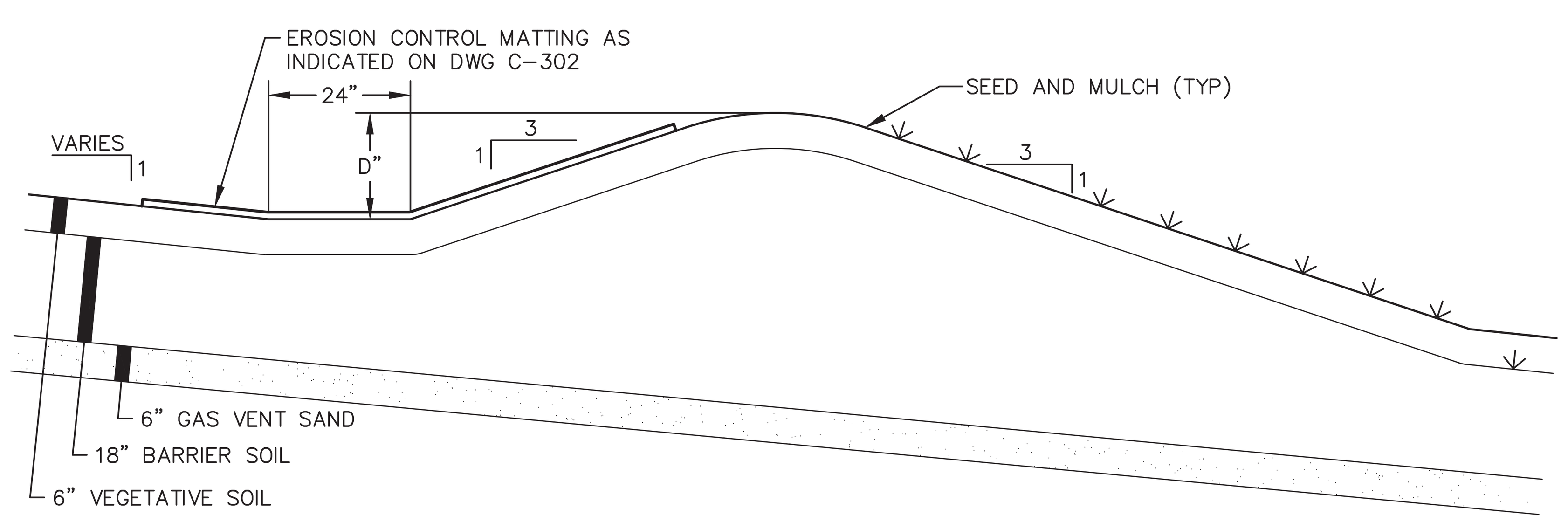
COVER DOWNSPOUT
NTS



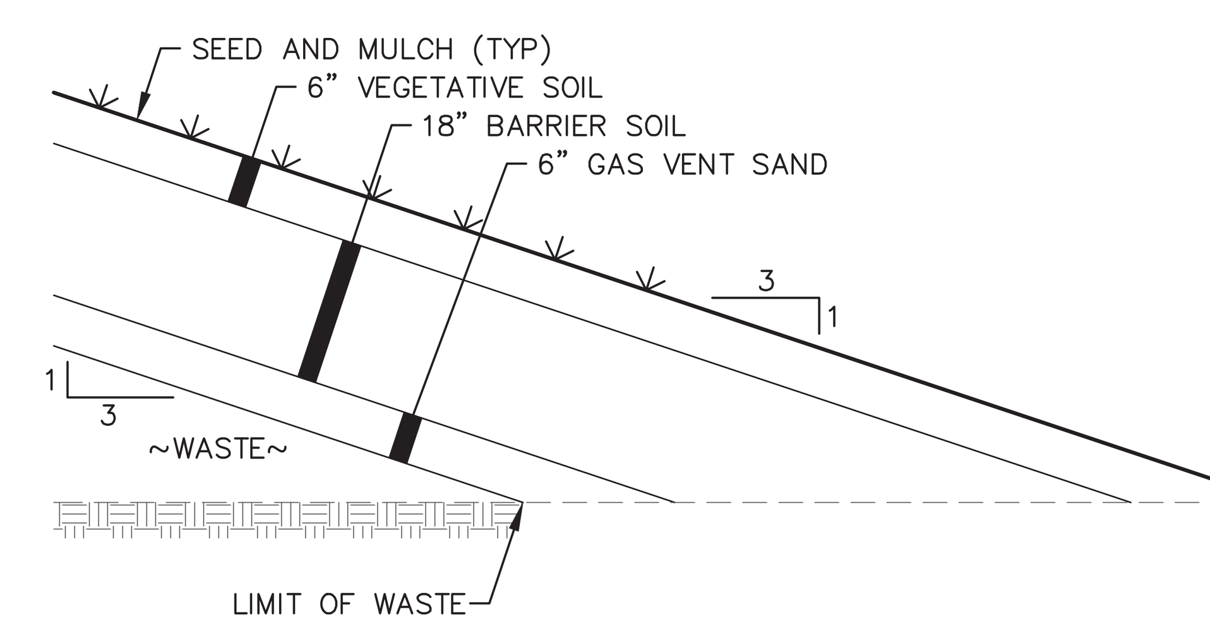
SOUTH TOE
NTS



WEST TOE DITCH
NTS



TERRACE DITCH
NTS



TYPICAL LANDFILL TOE
NTS

REV.	BY	DATE	STATUS
	BDP	6/2017	ISSUED FOR CONSTRUCTION
	CEB	2/2017	REVISE PER ADDENDUM NO. 1
	DPD	2/2017	ISSUED FOR BID
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STATE OF MAINE · GUY H. COTE, JR · 5144 · LICENSED · PROFESSIONAL ENGINEER

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JOB NO. 14092.01 DWG FILE DETAILS

C–301

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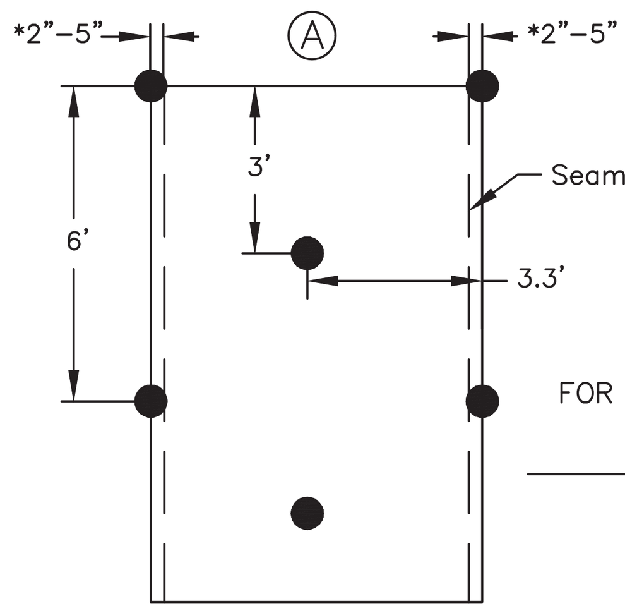
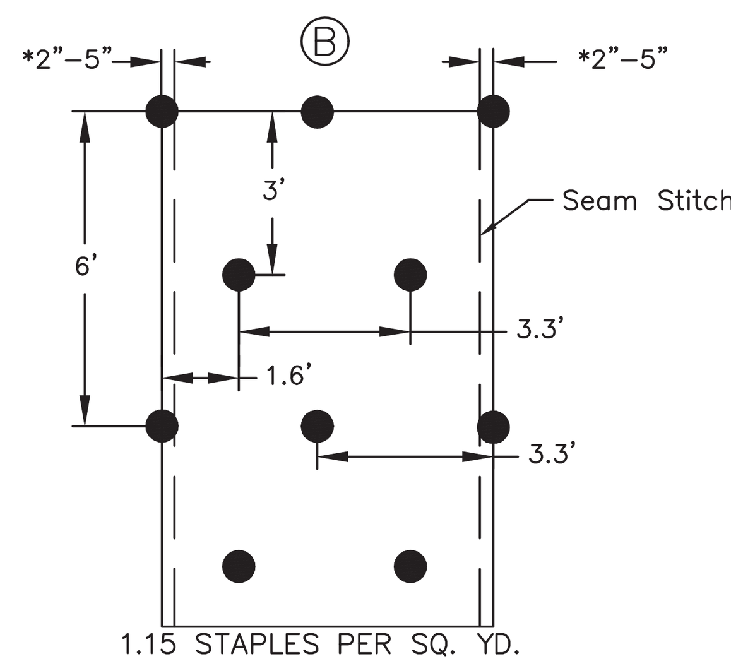
WWW.NAGREEN.COM



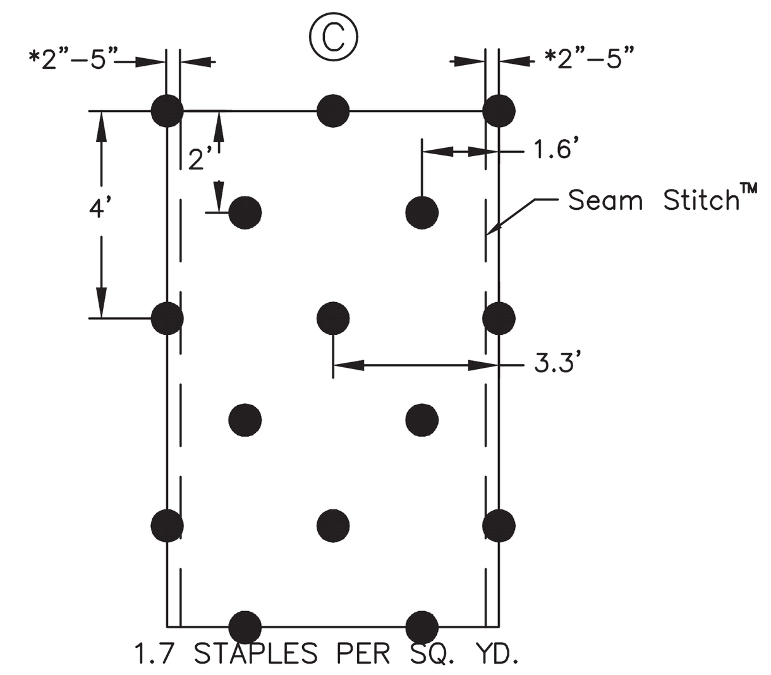
0.7 STAPLES PER SQ. YD.

FOR BLANKETS WITH THE NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES THROUGH EACH OF THE DOTS.



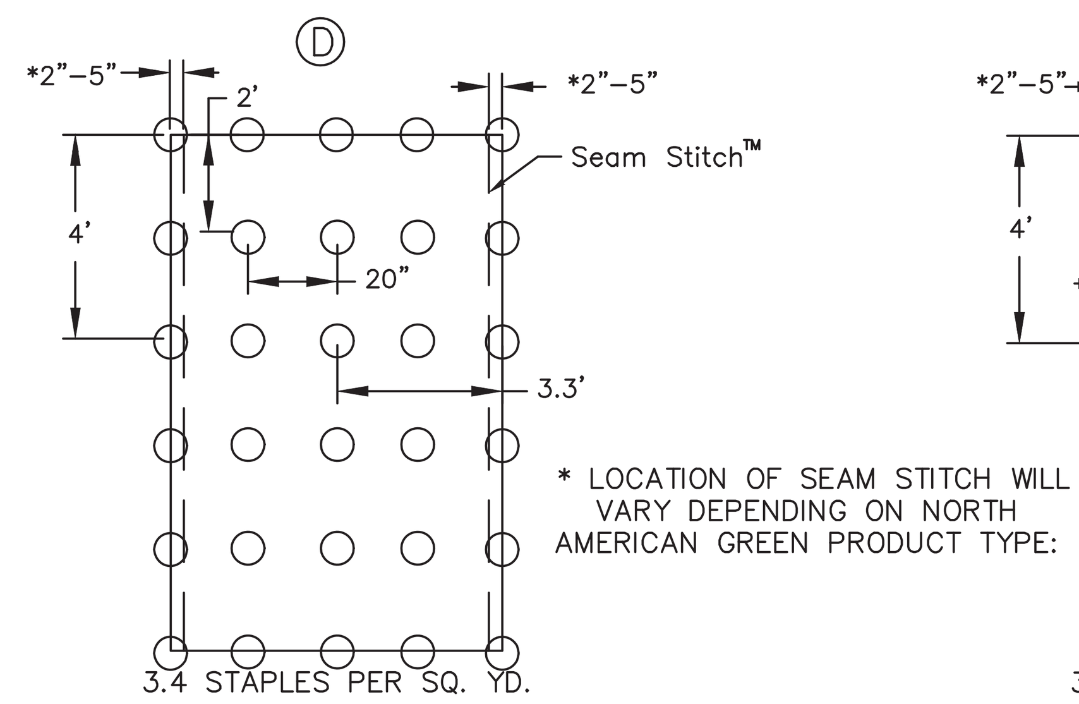
1.15 STAPLES PER SQ. YD.

FOR BLANKETS WITH THE NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES THROUGH EACH OF THE DOTS.



1.7 STAPLES PER SQ. YD.

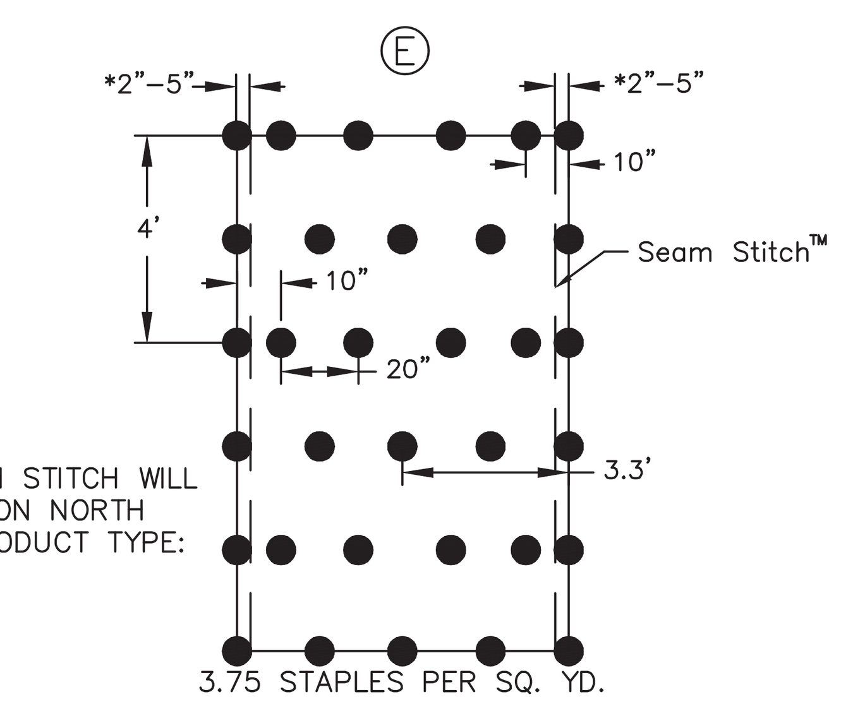
FOR BLANKETS WITH THE NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES THROUGH EACH OF THE DOTS.



* LOCATION OF SEAM STITCH WILL VARY DEPENDING ON NORTH AMERICAN GREEN PRODUCT TYPE:

3.4 STAPLES PER SQ. YD.

FOR BLANKETS WITH THE NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES THROUGH EACH OF THE DOTS.

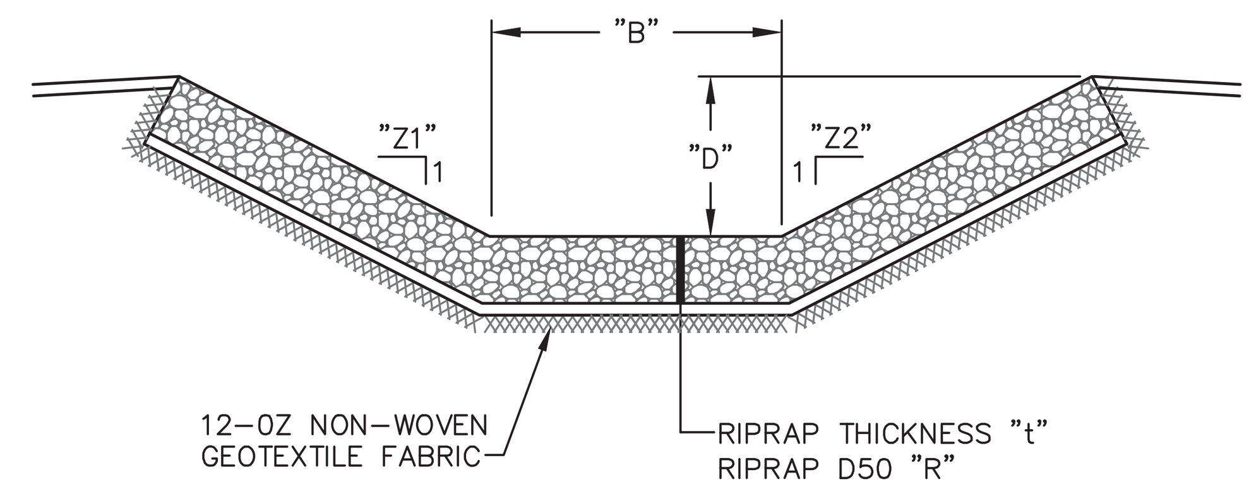


3.75 STAPLES PER SQ. YD.

FOR BLANKETS WITH THE NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES THROUGH EACH OF THE DOTS.

ECB STAPLE PATTERN GUIDE

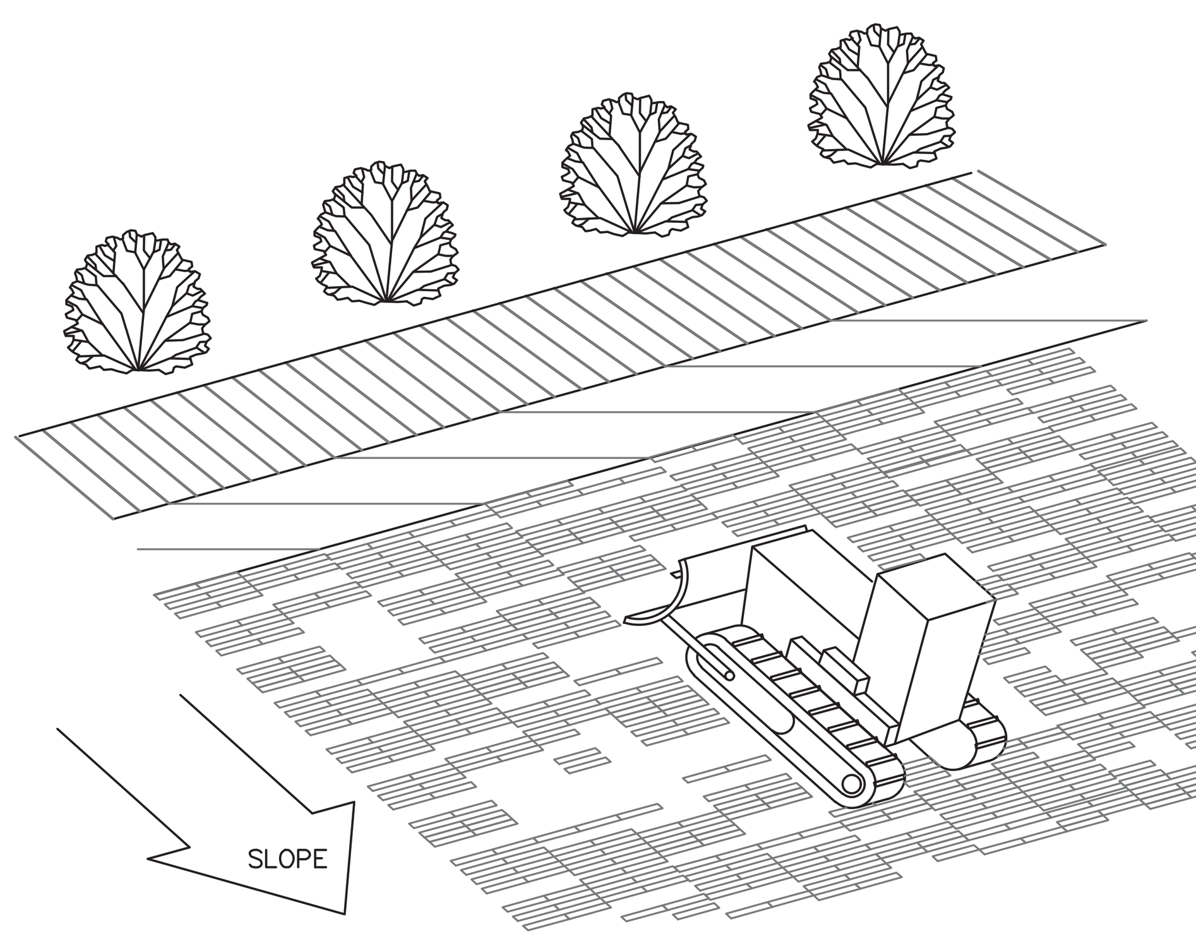
NTS



CHANNEL	TYPE	B (FT)	D (FT)	Z1	Z2	RIPRAP D_{50} (IN)	t (FT)
3B	DOWNSPOUT	4	2	2	2	6	1.25
3C	TOE CHANNEL	4	2	2	2	6	1.25

RIPRAP CHANNEL

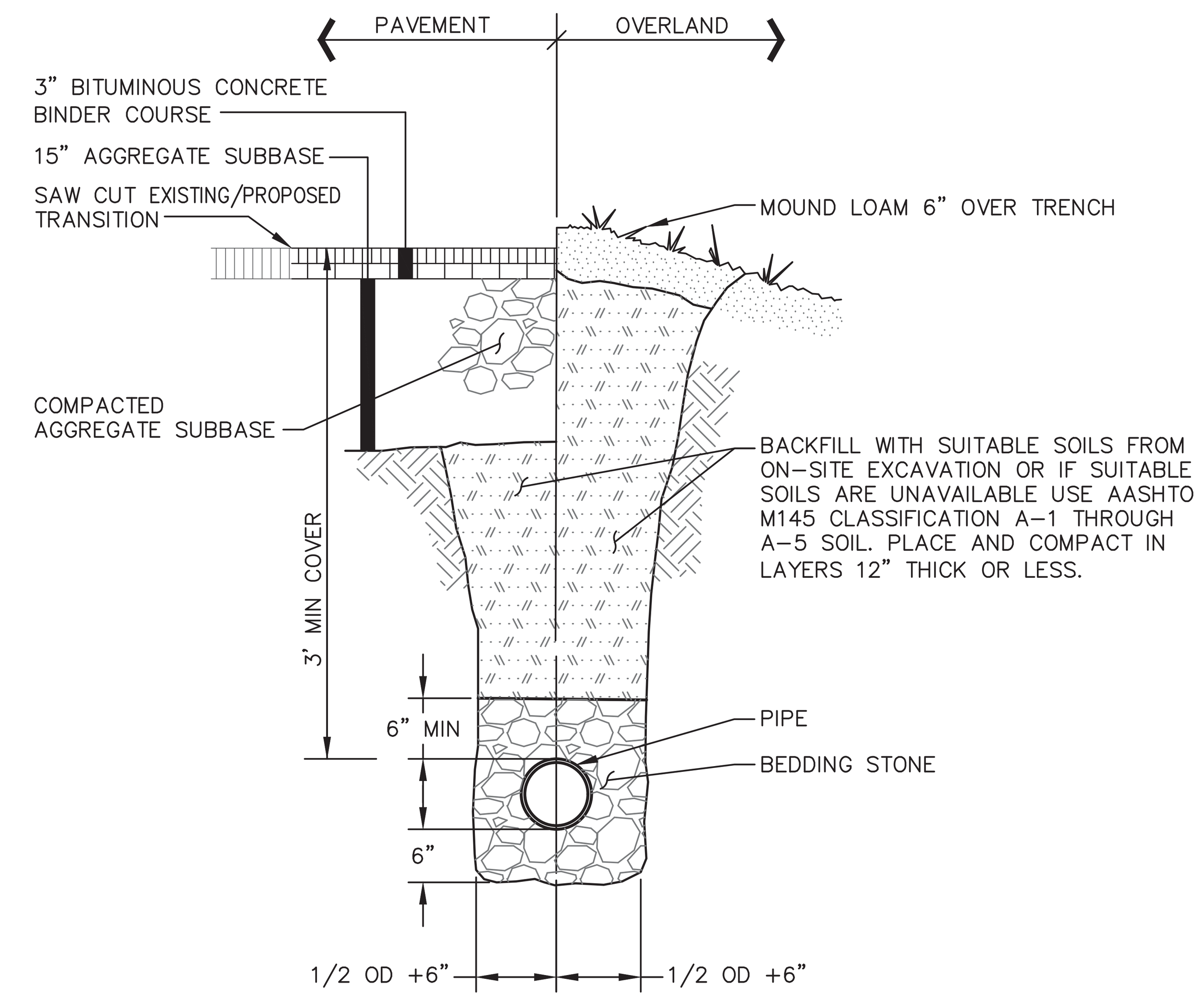
NTS



NOTES:
1. SLOPE TRACKING SHALL BE PERFORMED BY CONTRACTOR ON ALL FINISHED AREAS TO BE SEEDED.
2. TRACKING SHALL BE PERFORMED BY RUNNING TRACKED MACHINERY UP AND DOWN SLOPES LEAVING TREAD MARKS PARALLEL TO THE CONTOUR.

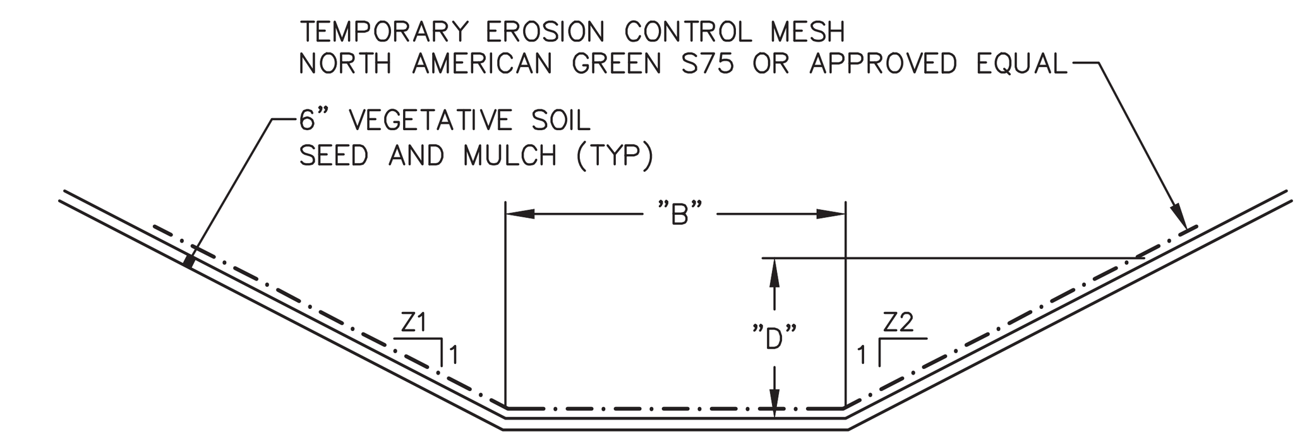
SLOPE TRACKING

NTS



PIPE TRENCH

NTS



GRASS CHANNEL	TYPE	B (FT)	D (FT)	Z1	Z2	LINING
3A	TERRACE DITCH	2	2	3	3 +/-	NAG S75
1A	TOE DITCH	4	2	3	2-3 +/-	NAG S75

*SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, AND VEGETATIVE STABILIZATION SPECIFICATIONS FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION.

NOTES:
1. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES AND WOODY DEBRIS, ACCUMULATED SEDIMENT AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH. ANY UNDERGROUND UTILITIES RUNNING ACROSS/THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS SECTION DETAIL.
2. VEGETATED CHANNELS SHALL BE CONSTRUCTED FREE OF ROCKS, TREE ROOTS, STUMPS OR OTHER PROJECTIONS THAT WILL IMPEDE NORMAL CHANNEL FLOW AND/OR PREVENT GOOD LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIALLY OVER-ESXCAVATED TO ALLOW FOR THE PLACEMENT OF TOPSOIL.

GRASS CHANNEL

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14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
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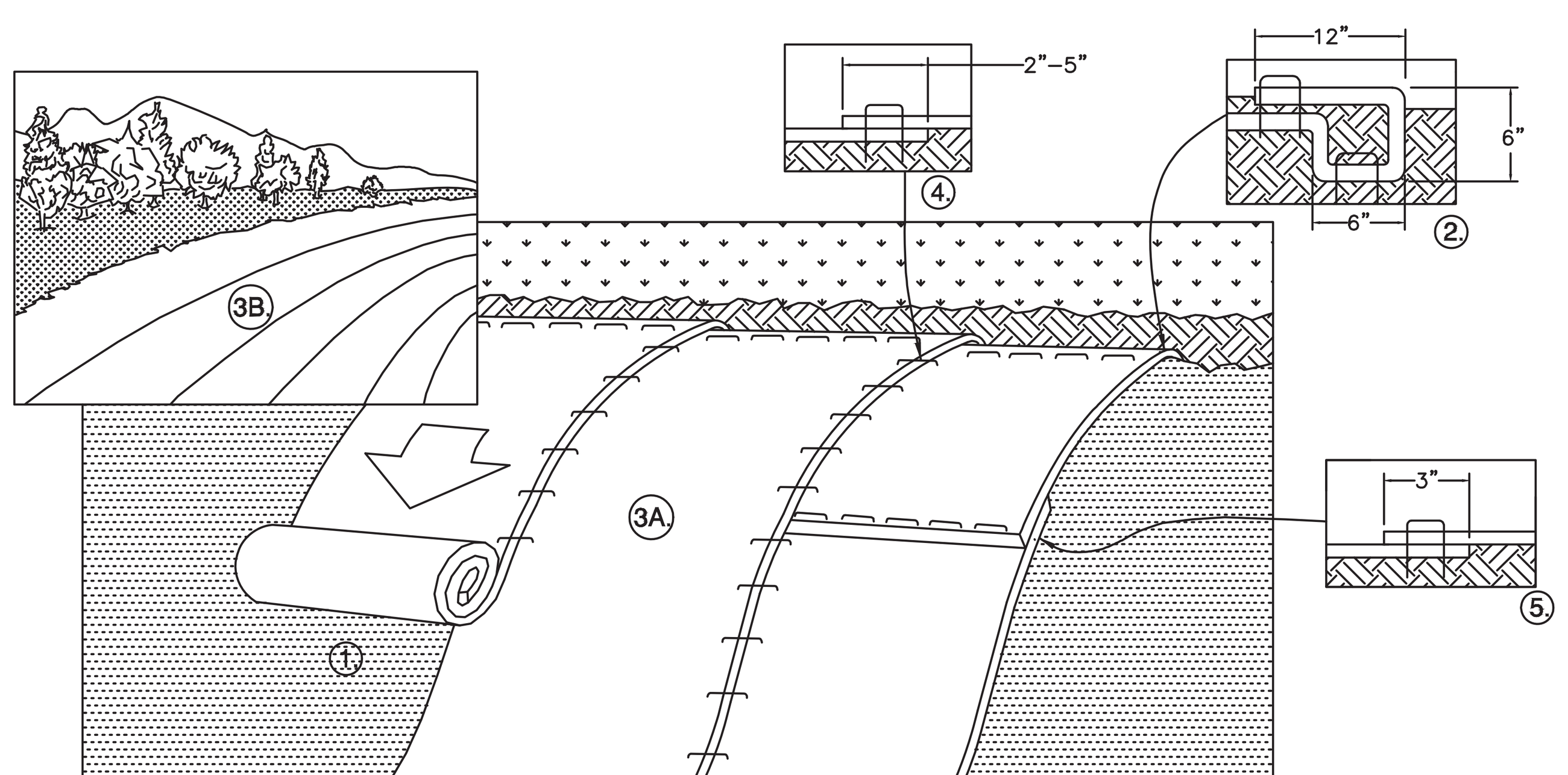

1. PREPARE BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6"DEEPx6"WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

SLOPE INSTALLATION

NTS

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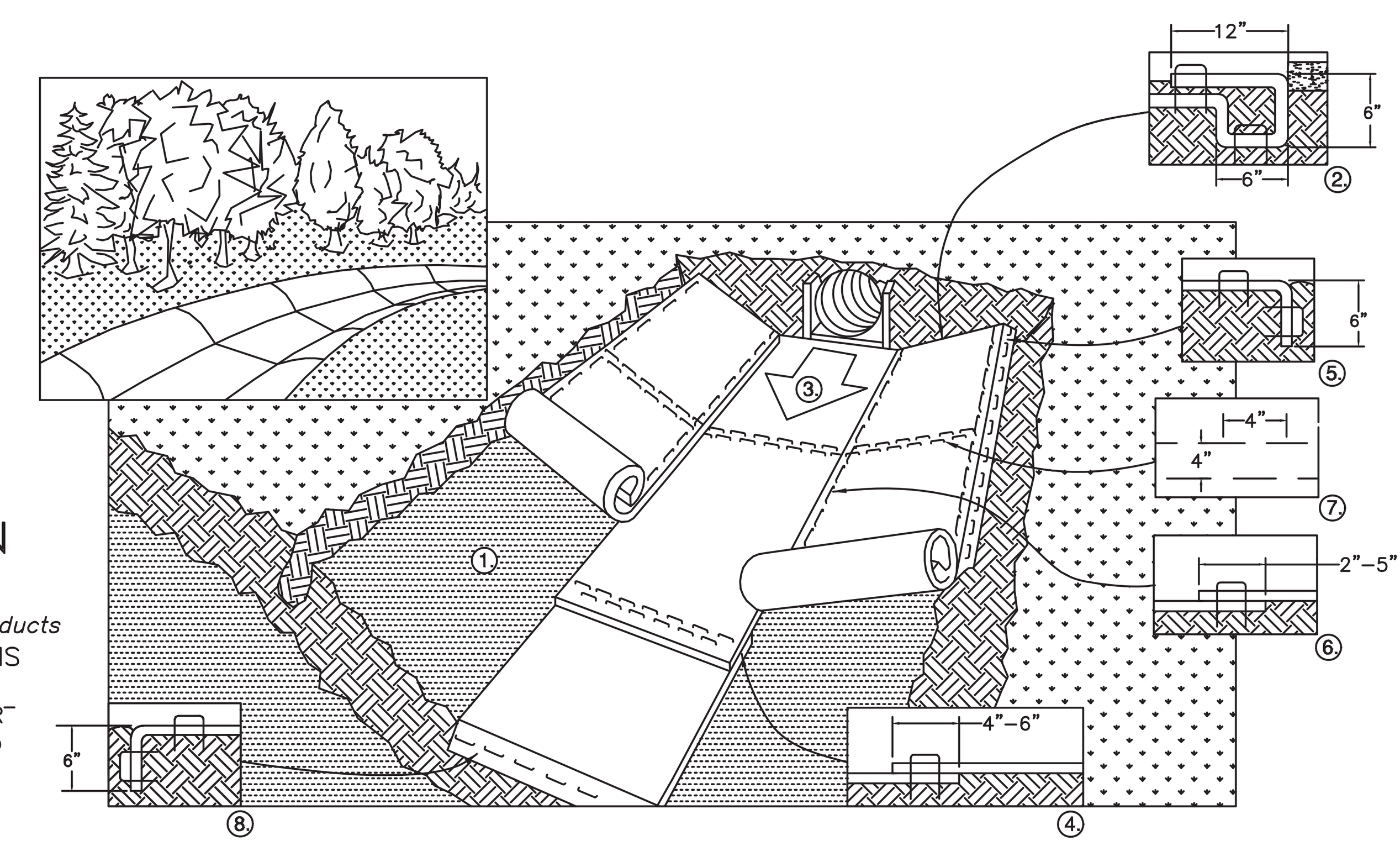
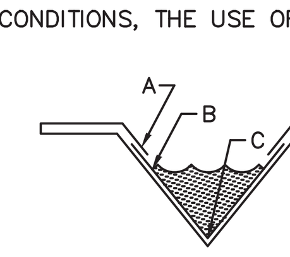


1. PREPARE BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6"DEEPx6"WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL CENTER RECP'S IN THE DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" TO 6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE RECP'S.
5. FULL LENGTH EDGE OF RECP'S AT OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" TO 5" (DEPENDING ON RECP'S TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



CRITICAL POINTS

A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

CHANNEL INSTALLATION

NTS

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	DPD	6/2017	ISSUED FOR CONSTRUCTION
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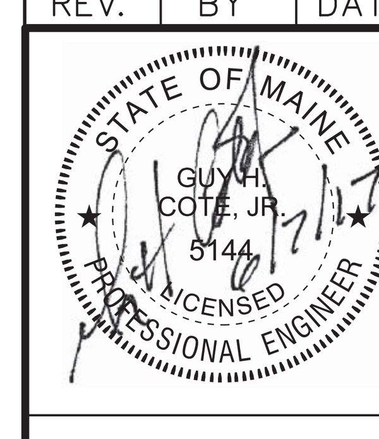

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

SECTIONS AND DETAILS

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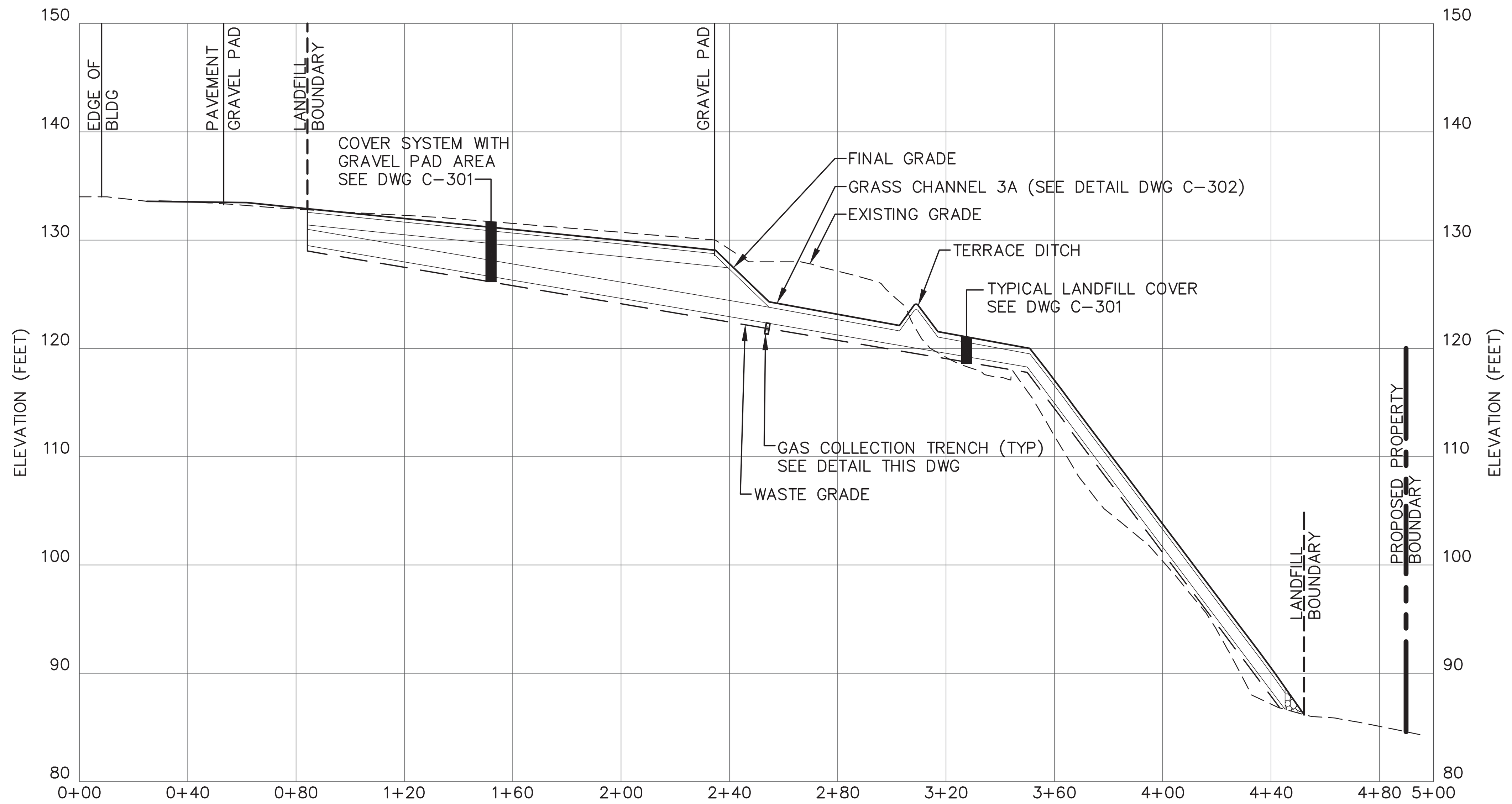
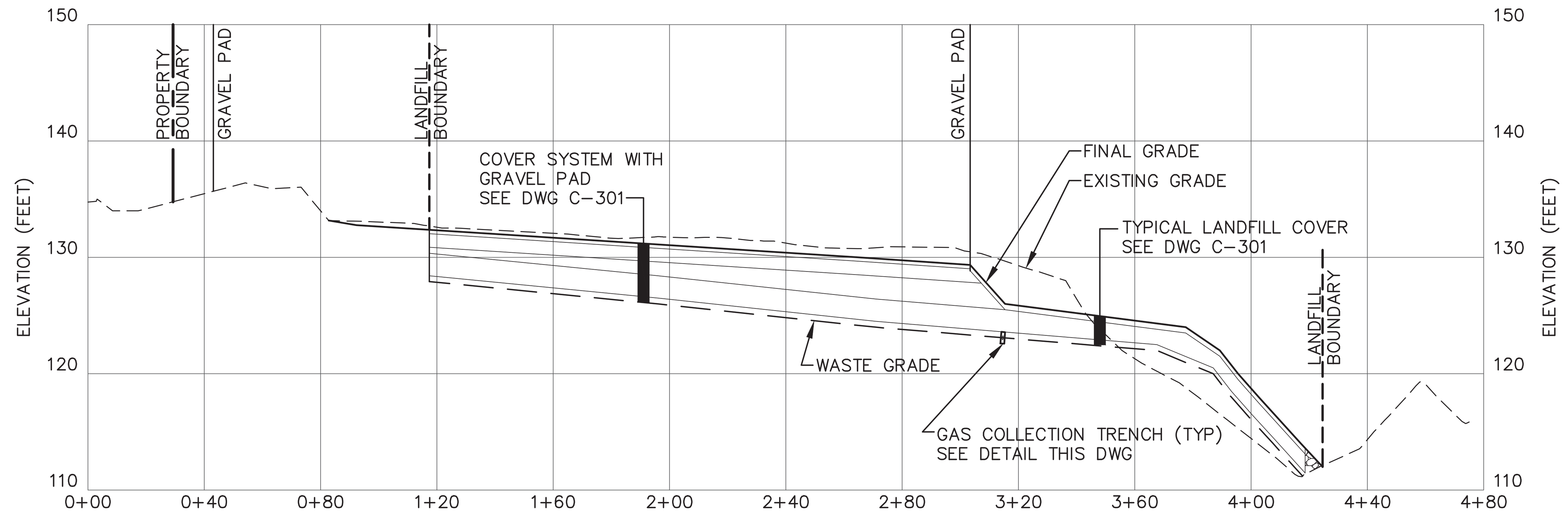
DESIGN BY:	BDP
DRAWN BY:	JRL
DATE:	7/9/14
CHECKED BY:	GHC
LMN:	NONE
CTB:	SME-STD

JOB NO. 14092.01 DWG FILE DETAILS

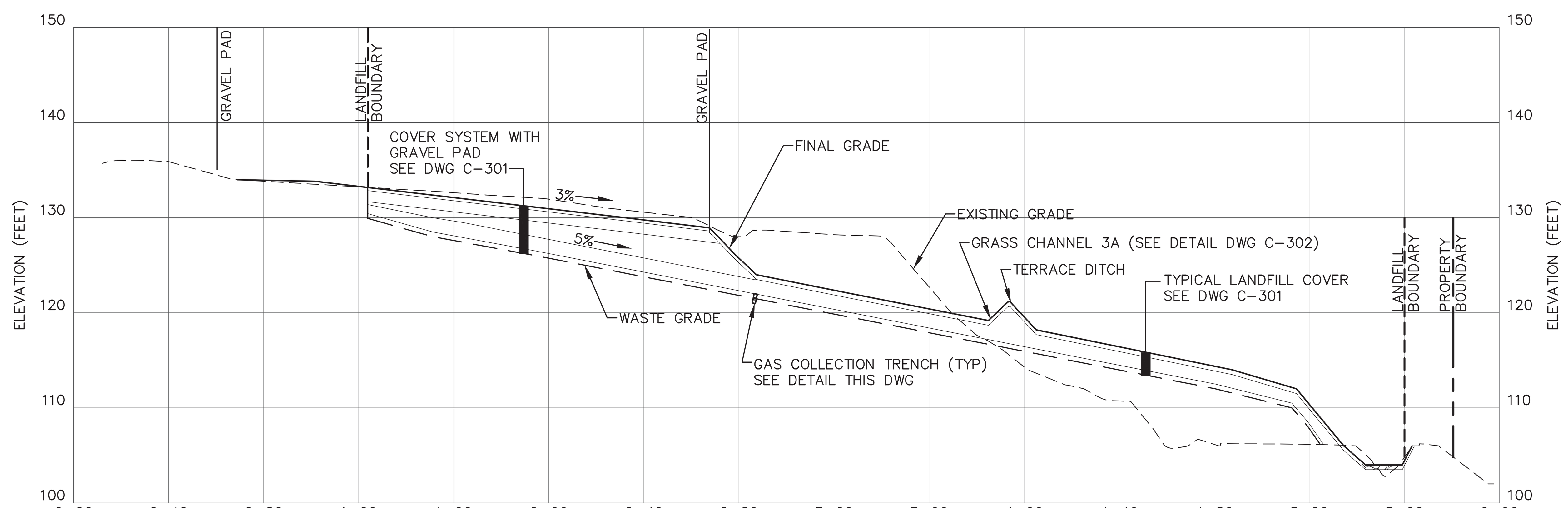
C-302



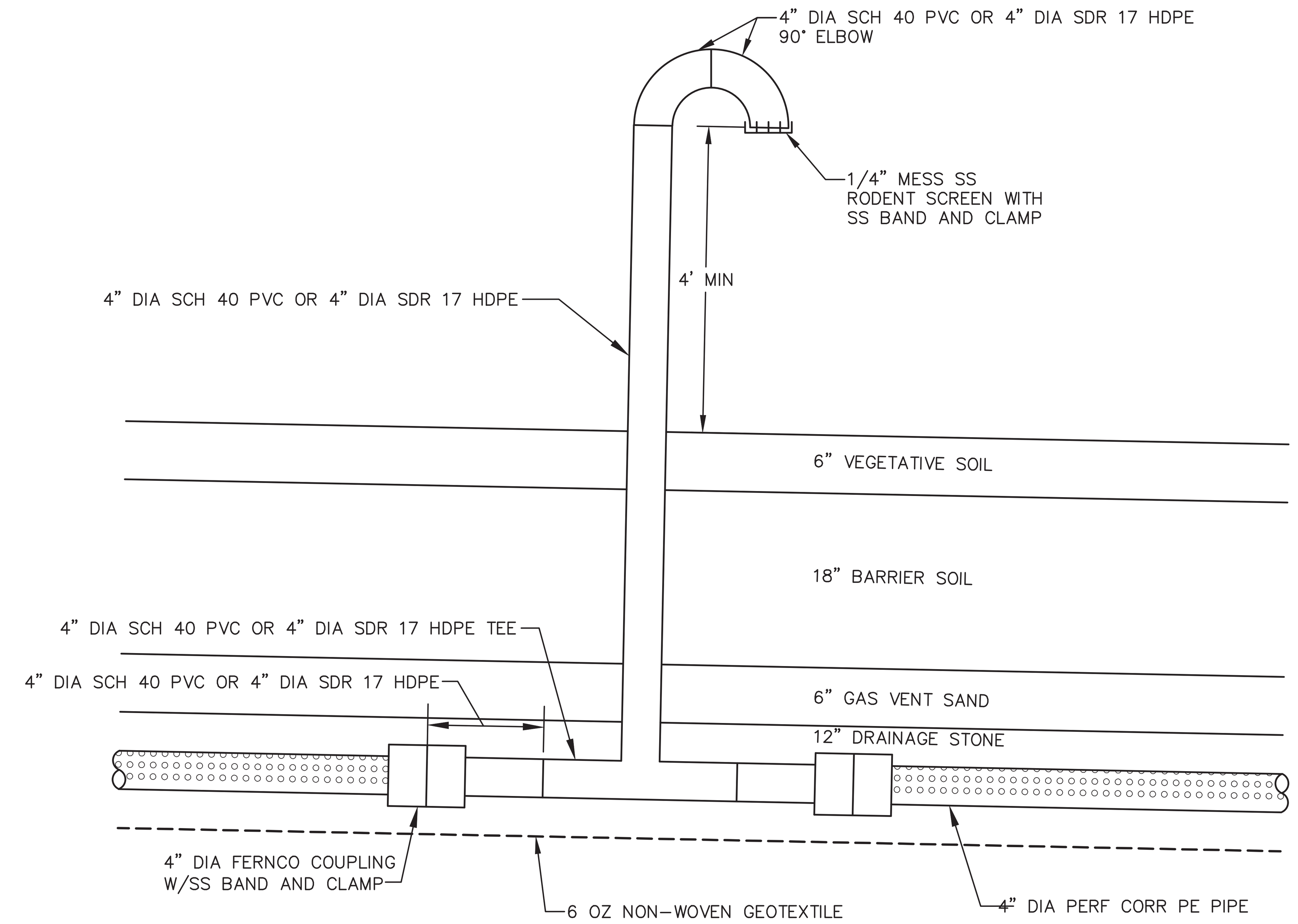
1 SECTION
C-102
C-103



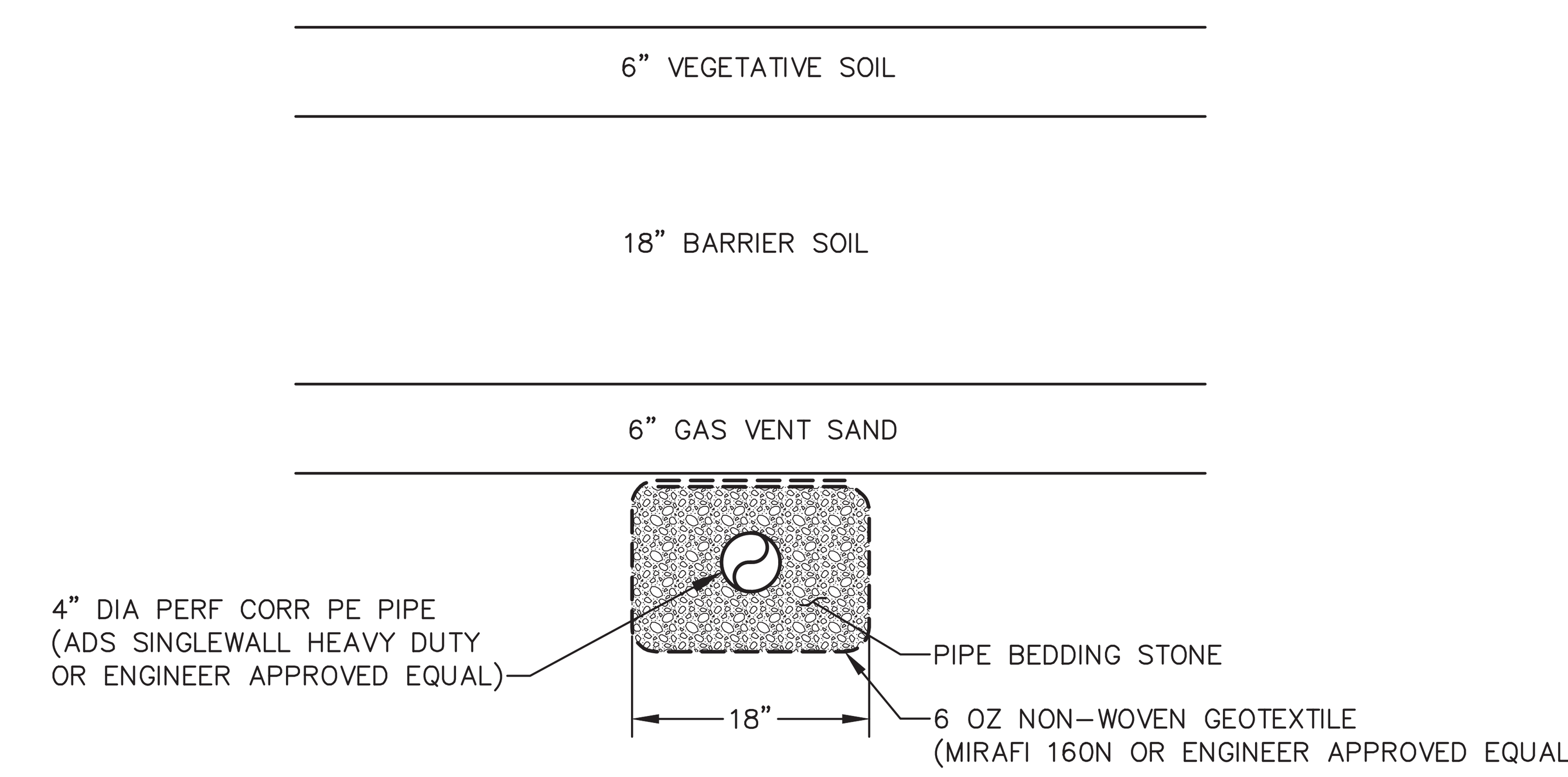
2 SECTION
C-102
C-103



3 SECTION
C-102
C-103



GAS VENT
NTS



GAS COLLECTION TRENCH
NTS

20 0 40 80 FEET (HORZ)
5 0 10 20 FEET (VERT)

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STATE OF MAINE GUY COTE JR 5144 LICENSED PROFESSIONAL ENGINEER

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CTB: SME-STD

JOB NO. 14092.01 DWG FILE BASE

C-303

STORMWATER MANAGEMENT LEGEND

1 (hexagon)	SUBCATCHMENT DESIGNATION
— — —	SUBCATCHMENT BOUNDARY
A B C	TIME OF CONCENTRATION SEGMENT DESIGNATION TIME OF CONCENTRATION PATH
Sht L=50' S=0.005	TIME OF CONCENTRATION TYPE, LENGTH AND SLOPE. (75% TEXT HT)
Sht	SHEET FLOW
Shc	SHALLOW CONCENTRATED FLOW
Cf	CHANNEL FLOW
——▸	DRAINAGE REACH
R4	REACH DESIGNATION (HYDROCAD)
P3	POND/STRUCTURE DESIGNATION (HYDROCAD)
tc 1	TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

NOTES:

1. BASE MAP INCLUDING TOPOGRAPHY, PROPERTY BOUNDARY, AND SITE FEATURES PREPARED BY BOUNDARY POINTS PROFESSIONAL LAND SURVEYING, LLC, CUMBERLAND, MAINE, DATED JUNE 29, 2014. VERTICAL DATUM: NAVD 1988. HORIZONTAL DATUM: NAD83.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS PLAN AND CONTRACTOR SHALL FIELD VERIFY THE UTILITIES EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS. EXISTING TOPOGRAPHY WITHIN THE PROJECT AREA (SOLID CONTOURS) BY BOUNDARY POINTS PROFESSIONAL LAND SURVEYING, LLC, DATED JUNE 2014. EXISTING TOPOGRAPHY OUTSIDE OF PROJECT AREA (DASHED CONTOURS) TAKEN FROM MAINE GIS DATA CATALOG DATED 2012. CONTRACTOR SHOULD FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
4. TEST PITS PERFORMED AND FIELD SURVEYED BY SME IN 2014.
5. APPROXIMATE WASTE LIMITS BASED ON TEST PITTING BY SME.
6. SOILS FOR DEVELOPED LAND DESIGNATED AS HSG CLASS C.

25 0 50 100 FEET

REV.	BY	DATE	STATUS
	BDP	6/2017	ISSUED FOR CONSTRUCTION
	DPD	2/2017	ISSUED FOR BID
	DPD	9/2014	SUBMITTED TO MEDEP

STATE OF MAINE
GUY H. COTE, JR.
5144
LICENSED
PROFESSIONAL ENGINEER

TOWN OF CUMBERLAND
WOOD WASTE/CDD LANDFILL CLOSURE
DROWNE ROAD
CUMBERLAND, MAINE

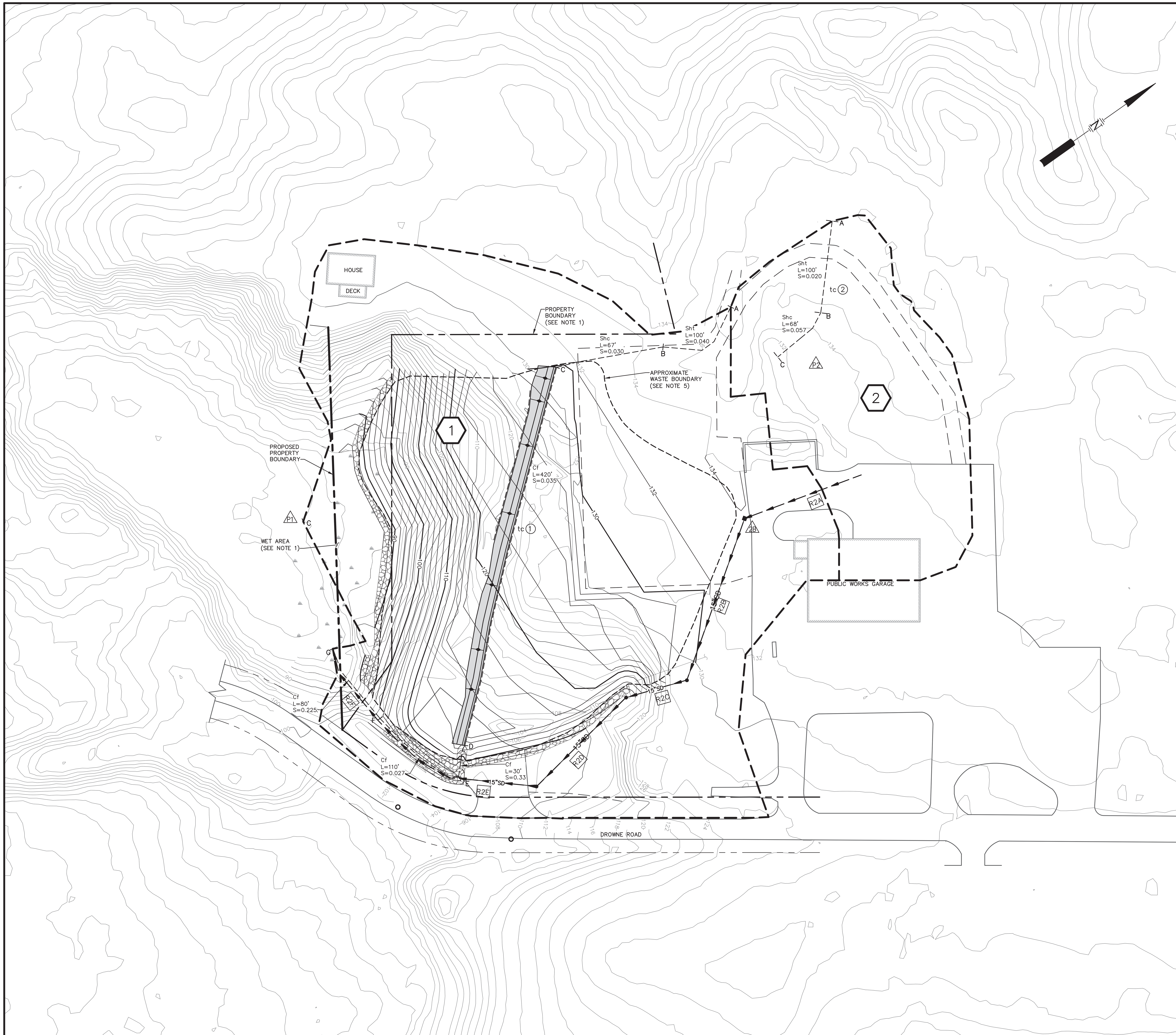
EXISTING CONDITIONS ANALYSIS

SME
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: JRL
DATE: 7/7/14
CHECKED BY: GHC
LMN: E-SMP
CTB: SME-STD

JOB NO. 14092.01 DWG FILE BASE

D-100



STORMWATER MANAGEMENT LEGEND

2 (hexagon)	SUBCATCHMENT DESIGNATION
— — —	SUBCATCHMENT BOUNDARY
A B C	TIME OF CONCENTRATION SEGMENT DESIGNATION TIME OF CONCENTRATION PATH
Sht L=100' S=0.035	TIME OF CONCENTRATION TYPE, LENGTH AND SLOPE. (75% TEXT HT)
Sht	SHEET FLOW
Shc	SHALLOW CONCENTRATED FLOW
Cf	CHANNEL FLOW
——►	DRAINAGE REACH
R4	REACH DESIGNATION (HYDROCAD)
P9	POND/STRUCTURE DESIGNATION (HYDROCAD)
tc 2	TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

NOTES:

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PROPOSED CONDITIONS ANALYSIS

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D-101