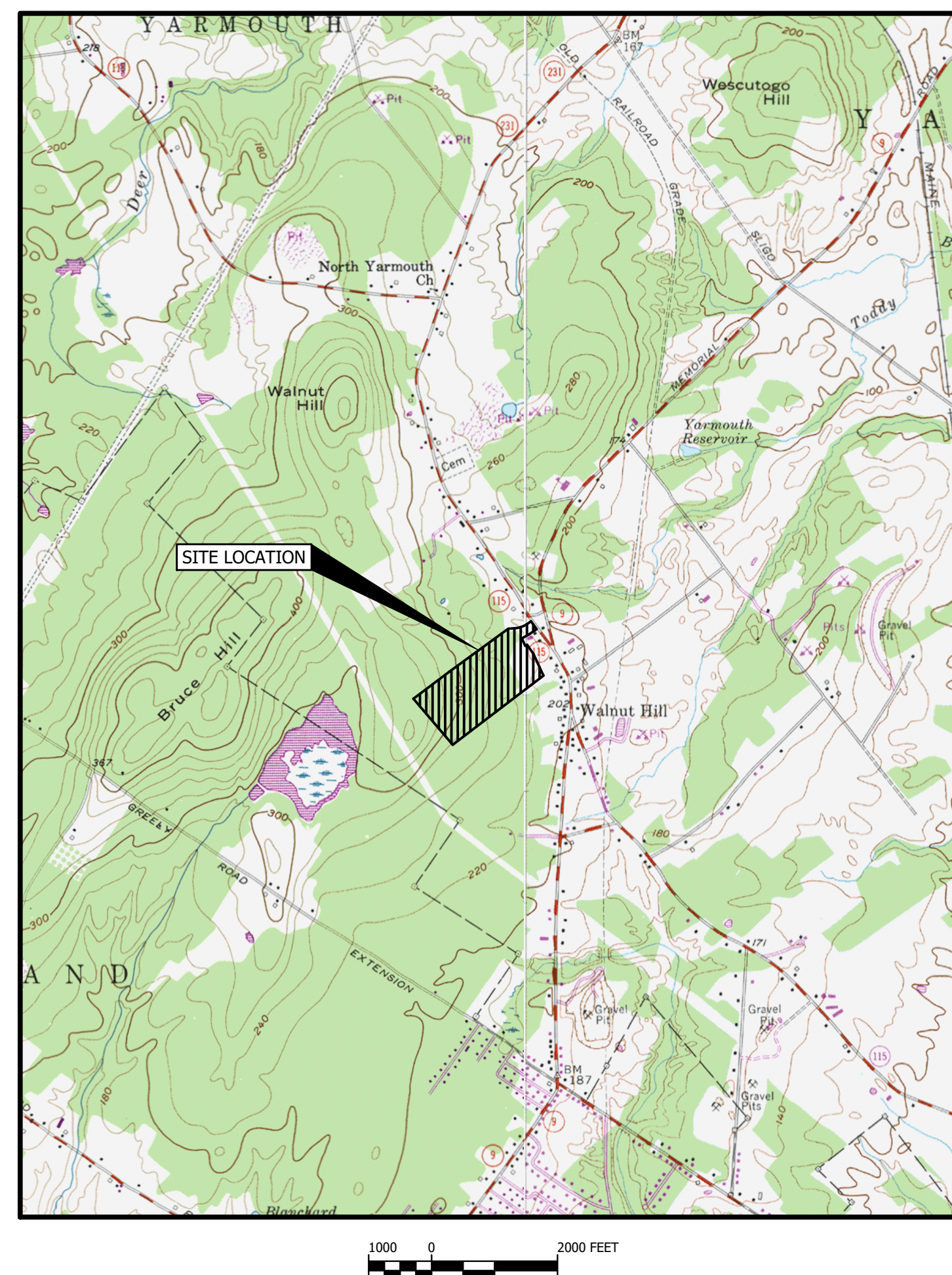


# CONSTRUCTION AGGREGATE INC. VILLAGE CENTER ESTATES, PHASE 2 NORTH YARMOUTH, MAINE

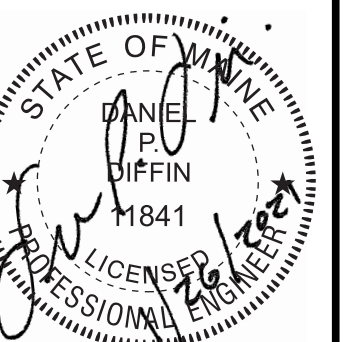
TITLE	DWG NO
COVER SHEET	
GENERAL NOTES, LEGEND, AND ABBREVIATIONS	C-100
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LOCATION MAP



ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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





### GENERAL NOTES:

- BASE MAP DERIVED FROM SURVEY PERFORMED BY WAYNE T. WOOD & CO. ENTITLED "PLAN OF LAND OF SMITH ON WALNUT HILL ROAD IN NORTH YARMOUTH, MAINE FOR FREDERICK CHERNER, 4 PINEWOOD DR. ~CUMBERLAND CTR, ME 04021", DATED JUNE, 2018.
- EXISTING ZONING LINE AND GROUNDWATER PROTECTION OVERLAY ZONE DIGITIZED FROM TOWN OF NORTH YARMOUTH ZONING MAP.
- 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.
- SOILS INFORMATION FROM HIGH INTENSITY SOIL SURVEY COMPLETED BY MARK HAMPTON ASSOCIATES ON DECEMBER 3, 2019.
- THE EXISTING CONTOURS SHOWN IN THE PHASE I AREA ARE FROM DESIGN DRAWINGS BY SME, DATED AUGUST 29, 2018. THE EXISTING CONTOURS SHOWN IN THE PHASE II AREA ARE TAKEN FROM LIDAR AS AVAILABLE FROM MAINE GIS DATA CATALOG.

### SURVEYOR'S NOTES

- OWNERS OF RECORD ARE GAIL S. BRUNS, CINDY A. CHERNER AND J. WHITMAN SMITH BY DEED OF DISTRIBUTION OF SIDNEY D. SMITH RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN BOOK 12,863 ON PAGE 144 AND NORMAN L. & NELSON L. SMITH BY DEED OF DISTRIBUTION OF NORMAN L. SMITH RECORDED IN THE SAID REGISTRY OF DEEDS BOOK 32,519 PAGE 82.
- ALL BEARINGS ARE REFERENCED TO MAGNETIC NORTH OF THE YEAR 1983 PER THE PLAN IN SURVEYOR'S PLAN REFERENCE NOTES #9 AND ARE CALCULATED FROM ANGLES OF AN ACTUAL ON THE GROUND SURVEY.
- THE SUBJECT PARCEL IS SHOWN ON THE TOWN OF NORTH YARMOUTH, MAINE TAX MAP 7 AS LOT 34.
- THE EXISTING CONTOURS SHOWN ARE TAKEN FROM LIDAR AS AVAILABLE FROM MAINE GIS DATA CATALOG.
- WETLANDS SHOWN ARE AS DELINEATED BY SWEET ASSOCIATES ON A PLAN DATED JUNE 10, 2016. ADDITIONAL WETLANDS SHOWN ARE AS DELINEATED BY MARK HAMPTON ASSOCIATES ON JULY 1, 2018.
- THE RICHARD BASTON PROPERTY MAY HAVE AN EASEMENT OR RIGHT OF WAY ACROSS THIS PROPERTY OVER THE SECTION OF THIS PARCEL LABELED AS THE "OSGOOD/DOLLOFF LOT" FOR THE PURPOSES OF ACCESSING THE BASTON LOT FOR WOOD HARVESTING ACTIVITIES.

### SURVEYOR'S PLAN REFERENCE NOTES

- "PLAN OF LAND ON MEMORIAL HIGHWAY IN NORTH YARMOUTH, MAINE FOR FREDERICK CHERNER" DATED SEPTEMBER 2017 BY WAYNE T. WOOD & CO.
- "GUIDI FLASH HOLDINGS ~ STONE POST SUBDIVISION ~ ROUTE 115 ~ NORTH YARMOUTH, MAINE" DATED MARCH 2016 BY SEVEE & MAHER ENGINEERING RECORDED IN PLAN BOOK 216 PAGE 384.
- "CONDOMINIUM PLAT WALNUT HILL CONDOMINIUM 2 WALNUT HILL ROAD, NORTH YARMOUTH, MAINE MADE FOR PIPER, LLC" DATED APRIL 15, 2015 BY OWEN HASKELL, INC. RECORDED IN PLAN BOOK 215 PAGE 138.
- "PLAN OF LAND FOR THOMAS AND SARE CURTIS" DATED OCTOBER 2013 BY COLONIAL SURVEYING COMPANY, LLC RECORDED IN PLAN BOOK 215 PAGE 31.
- "UPDATE TO A STANDARD BOUNDARY SURVEY SHOWING LAND OF REBECCA L. SWIGGETT FOR THE TRUST FOR PUBLIC LAND GREELY ROAD EXTENSION & PLEASANT VALLEY ROAD, CUMBERLAND & NORTH YARMOUTH, MAINE" DATED AUGUST 26, 2013 REVISED 6/3/2014.
- "RIGHT OF WAY MAP STATE AID HIGHWAY NOS. 2 & 3 (ROUTES 9 & 115) NORTH YARMOUTH, CUMBERLAND COUNTY" DATED JUNE 2004.
- "STANDARD BOUNDARY SURVEY FOR RICHARD & HELEN KNIGHT, GREELY ROAD EXTENSION, CUMBERLAND / NORTH YARMOUTH, MAINE" DATED FEB 1, 1996 REVISED THRU 7/15/96 RECORDED IN PLAN BOOK 196 PAGE 395.
- "STANDARD BOUNDARY SURVEY ON ROUTE 115 IN NORTH YARMOUTH, MAINE FOR NELLIE LEIGHTON & PAUL & BETTY KAY TURINA" DATED 1/26/1989 BY DANIEL T.C. LAPOINT.
- "STANDARD BOUNDARY SURVEY PLAN OF LAND ON ROUTE 115 IN NORTH YARMOUTH, MAINE FOR NORMAN L. SMITH, SIDNEY D. SMITH" DATED 4/17/1987 BY DANIEL T. C. LAPOINT.
- "PLAN OF LAND FOR PAUL CLARK, ROUTE 115, NORTH YARMOUTH, ME" DATED 7/10/1978 BY C. R. STORER, INC. RECORDED IN PLAN BOOK 120 PAGE 30.

### TYPICAL ABBREVIATIONS:

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

### GENERAL SITE NOTES:

- 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.
- PAVEMENT EDGES SHALL BE TRUE TO LINE. SAWCUT EXISTING PAVEMENT IN SMOOTH STRAIGHT LINE WHERE NEW PAVEMENT JOINS, PROVIDE TACK COAT LAYER AS SPECIFIED.
- PROVIDE TRAFFIC CONTROL SIGNAGE AND STRIPING AS SHOWN AND IN ACCORDANCE WITH U.S.D.O.T. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT VERSION).
- HORIZONTAL DATUM: NAD83, WEST, FT. VERTICAL DATUM: NAVD 88.

### GRADING NOTES:

- ADD 4" LOAM, SEED AND MULCH TO DISTURBED AREAS UNLESS OTHERWISE NOTED. PROVIDE EROSION CONTROL MESH ON ALL SLOPES STEEPER THAN 3:1, AND ALONG DITCH CHANNELS.
- MAINTAIN TEMPORARY EROSION CONTROL MEASURES FOR THE FULL DURATION OF CONSTRUCTION. INSPECT WEEKLY AND AFTER EACH STORM AND REPAIR AS NEEDED. REMOVE SEDIMENTS FROM THE SITE. PLACE IN AREA OF LOW EROSION POTENTIAL, AND STABILIZE WITH SEED AND MULCH.
- PLACE TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS OF INITIAL DISTURBANCE. PLACE PERMANENT SOIL STABILIZATION WITHIN 7 DAYS OF FINAL GRADING.

### UTILITY NOTES:

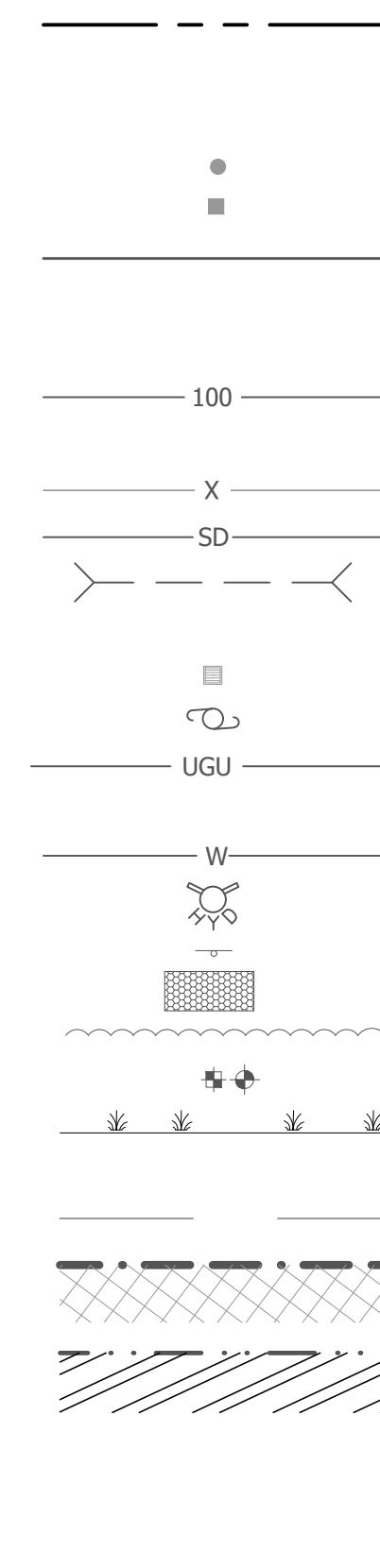
- THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
- COORDINATE WORK ON UTILITY LINES OR WITHIN ROAD RIGHT-OF-WAY WITH THE UTILITY COMPANIES AND TOWN ROAD DEPARTMENT AND MEDOT.
- ALL PIPING AND DRAINAGE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF NORTH YARMOUTH MUNICIPAL STANDARDS.

### DIG SAFE NOTES:

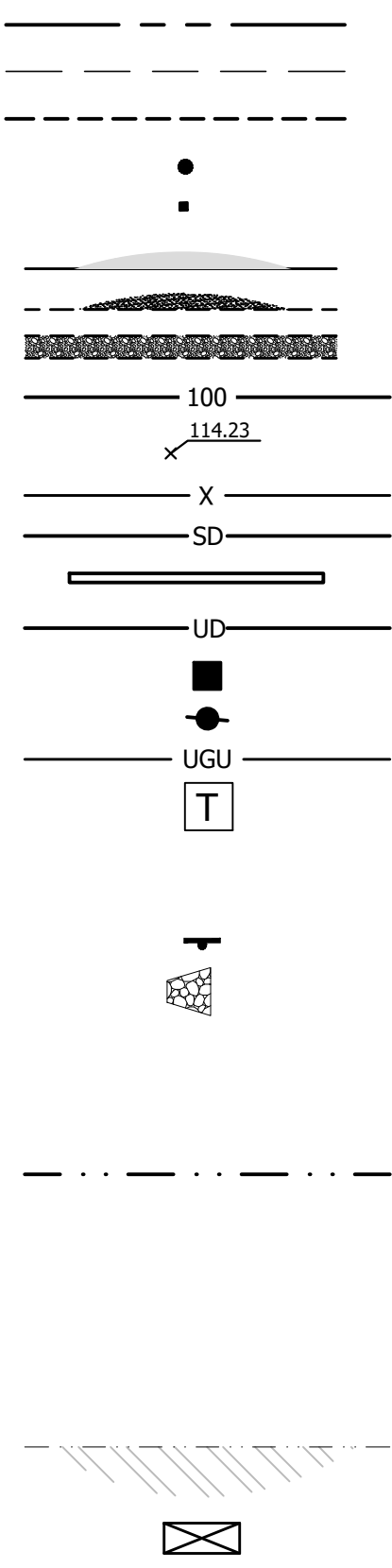
PRIOR TO EXCAVATION, VERIFY THE UNDERGROUND UTILITIES, PIPES, STRUCTURES AND FACILITIES. PROVIDE THE FOLLOWING MINIMUM MEASURES:

- PRE-MARK THE BOUNDARIES OF PLANNED EXCAVATION WITH WHITE PAINT, FLAGS OR STAKES, SO UTILITY CREWS KNOW WHERE TO MARK THEIR LINES.
- CALL DIG SAFE, AT 811, AT LEAST THREE BUSINESS DAYS - BUT NO MORE THAN 30 CALENDAR DAYS - BEFORE STARTING WORK. DO NOT ASSUME SOMEONE ELSE WILL MAKE THE CALL.
- IF BLASTING, NOTIFY DIG SAFE AT LEAST ONE BUSINESS DAY IN ADVANCE.
- WAIT THREE BUSINESS DAYS FOR LINES TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES. NOTE THE COLOR OF THE MARKS AND THE TYPE OF UTILITIES THEY INDICATE. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- CONTACT THE LANDOWNER AND OTHER "NON-MEMBER" UTILITIES (WATER, SEWER, GAS, ETC.). FOR THEM TO MARK THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.
- RE-NOTIFY DIG SAFE AND THE NON-MEMBER UTILITIES IF THE DIGGING, DRILLING OR BLASTING DOES NOT OCCUR WITHIN 30 CALENDAR DAYS, OR IF THE MARKS ARE LOST DUE TO WEATHER CONDITIONS, SITE WORK ACTIVITY OR ANY OTHER REASON.
- HAND DIG WITHIN 18 INCHES IN ANY DIRECTION OF ANY UNDERGROUND LINE UNTIL THE LINE IS EXPOSED. MECHANICAL METHODS MAY BE USED FOR INITIAL SITE PENETRATION, SUCH AS REMOVAL OF PAVEMENT OR ROCK.
- DIG SAFE REQUIREMENTS ARE IN ADDITION TO TOWN, CITY, AND/OR STATE DOT STREET OPENING PERMIT REQUIREMENTS.
- FOR COMPLETE DIG SAFE REQUIREMENTS, CALL THE PUC OR VISIT THEIR WEBSITE.
- IF YOU DAMAGE, DISLOCATE OR DISTURB ANY UNDERGROUND UTILITY LINE, IMMEDIATELY NOTIFY THE AFFECTED UTILITY. IF DAMAGE CREATES SAFETY CONCERNS, CALL THE FIRE DEPARTMENT AND TAKE IMMEDIATE STEPS TO SAFEGUARD HEALTH AND PROPERTY.
- ANY TIME AN UNDERGROUND LINE IS DAMAGED OR DISTURBED OR IF LINES ARE IMPROPERLY MARKED, YOU MUST FILE AN INCIDENT REPORT WITH THE P.U.C. FOR AN INCIDENT REPORT FORM VISIT WWW.STATE.ME.US/MPUC OR CALL THE PUC AT 1-800-452-4699.

### EXISTING



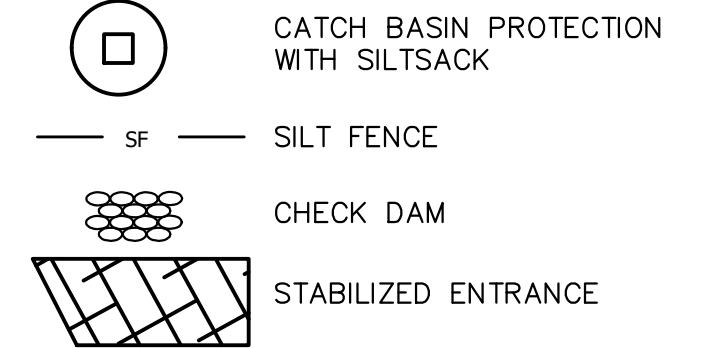
### PROPOSED



### LEGEND

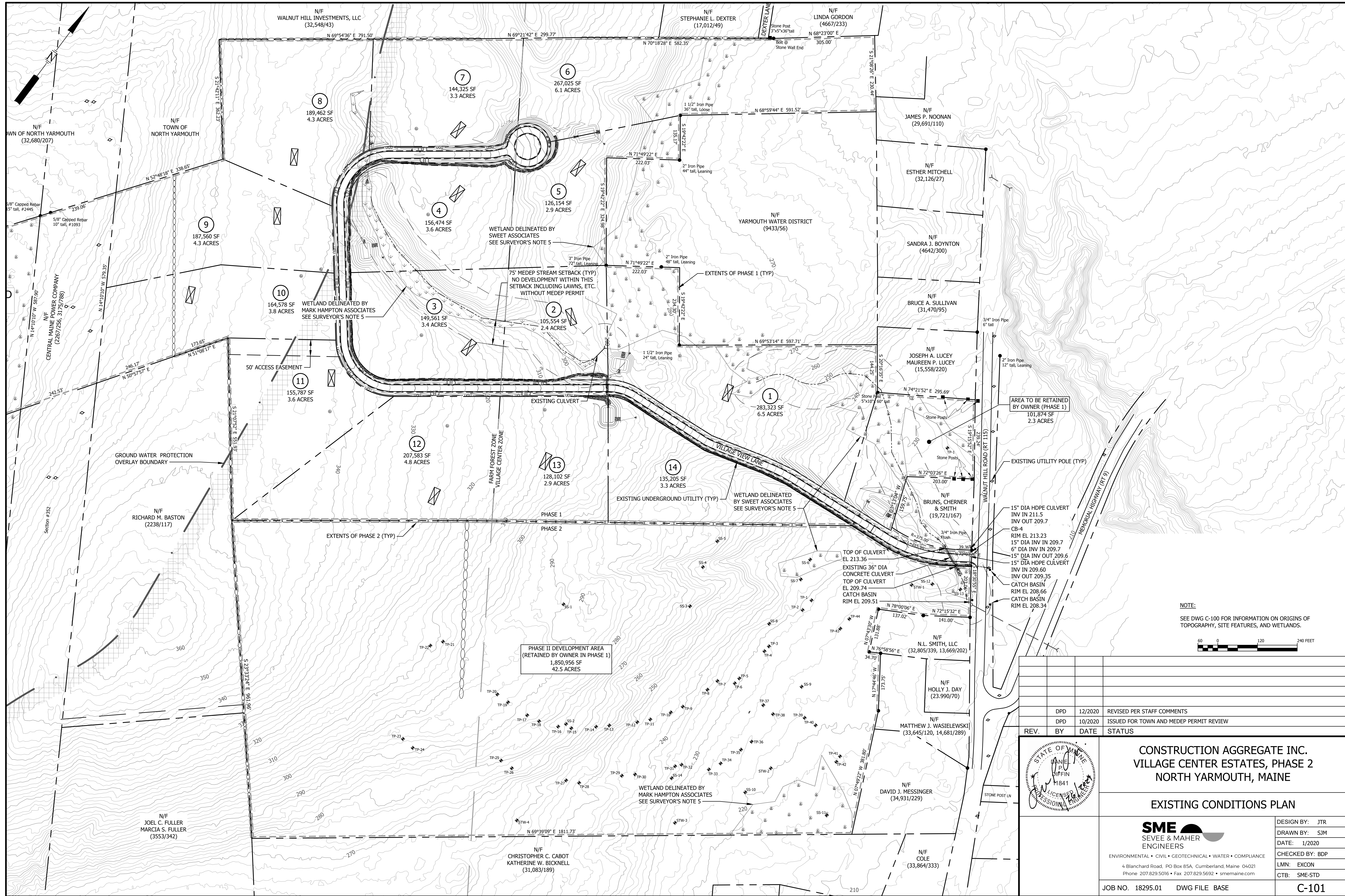
PROPERTY LINE  
SETBACK  
EASEMENT  
IRON PIPE  
STONE POST  
EDGE OF PAVEMENT  
EDGE OF GRAVEL  
WALKING PATH  
CONTOUR  
SPOT GRADE  
FENCE  
STORM DRAIN  
CULVERT  
UNDERDRAIN  
CATCH BASIN  
UTILITY POLE  
UNDERGROUND UTILITY  
TRANSFORMER  
WATER LINE  
HYDRANT  
SIGN  
RIPRAP  
TREELINE  
TEST PIT  
WETLAND  
NO-CUT BUFFER  
ZONING BOUNDARY  
GROUNDWATER PROTECTION OVERLAY BOUNDARY  
RESIDENTIAL SHORELAND ZONING  
100' WELL EXCLUSION ZONE  
POTENTIAL SEPTIC BED

### EROSION CONTROL LEGEND

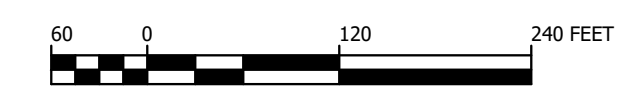


	DPD	12/2020	REVISED PER STAFF COMMENTS
	DPD	10/2020	ISSUED FOR TOWN AND MEDEP PERMIT REVIEW
REV.	BY	DATE	STATUS
			<p><b>CONSTRUCTION AGGREGATE INC.</b> <b>VILLAGE CENTER ESTATES, PHASE 2</b> <b>NORTH YARMOUTH, MAINE</b></p> <p><b>GENERAL NOTES, LEGEND, AND ABBREVIATIONS</b></p>
<p><b>SME SEVEE &amp; MAHER ENGINEERS</b> ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com</p>			<p>DESIGN BY: JTR DRAWN BY: SJM DATE: 1/2020 CHECKED BY: BDP LMN: NONE CTB: SME-STD</p>
JOB NO. 18295.00 DWG FILE GEN-NOTES			<b>C-100</b>

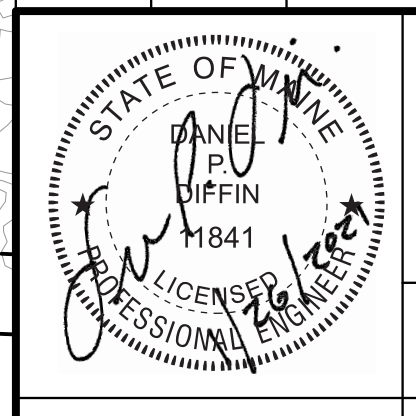




NOTE:  
SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.



REV.	BY	DATE	STATUS
DPD		12/2020	REVISED PER STAFF COMMENTS
DPD		10/2020	ISSUED FOR TOWN AND MEDEP PERMIT REVIEW



**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

**EXISTING CONDITIONS PLAN**

<b>SME</b> SEVEE & MAHER ENGINEERS ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com	DESIGN BY: JTR
	DRAWN BY: SJM
	CHECKED BY: BDP
	LMN: EXCON
	CTB: SME-STD
JOB NO. 18295.01	DWG FILE BASE
	<b>C-101</b>

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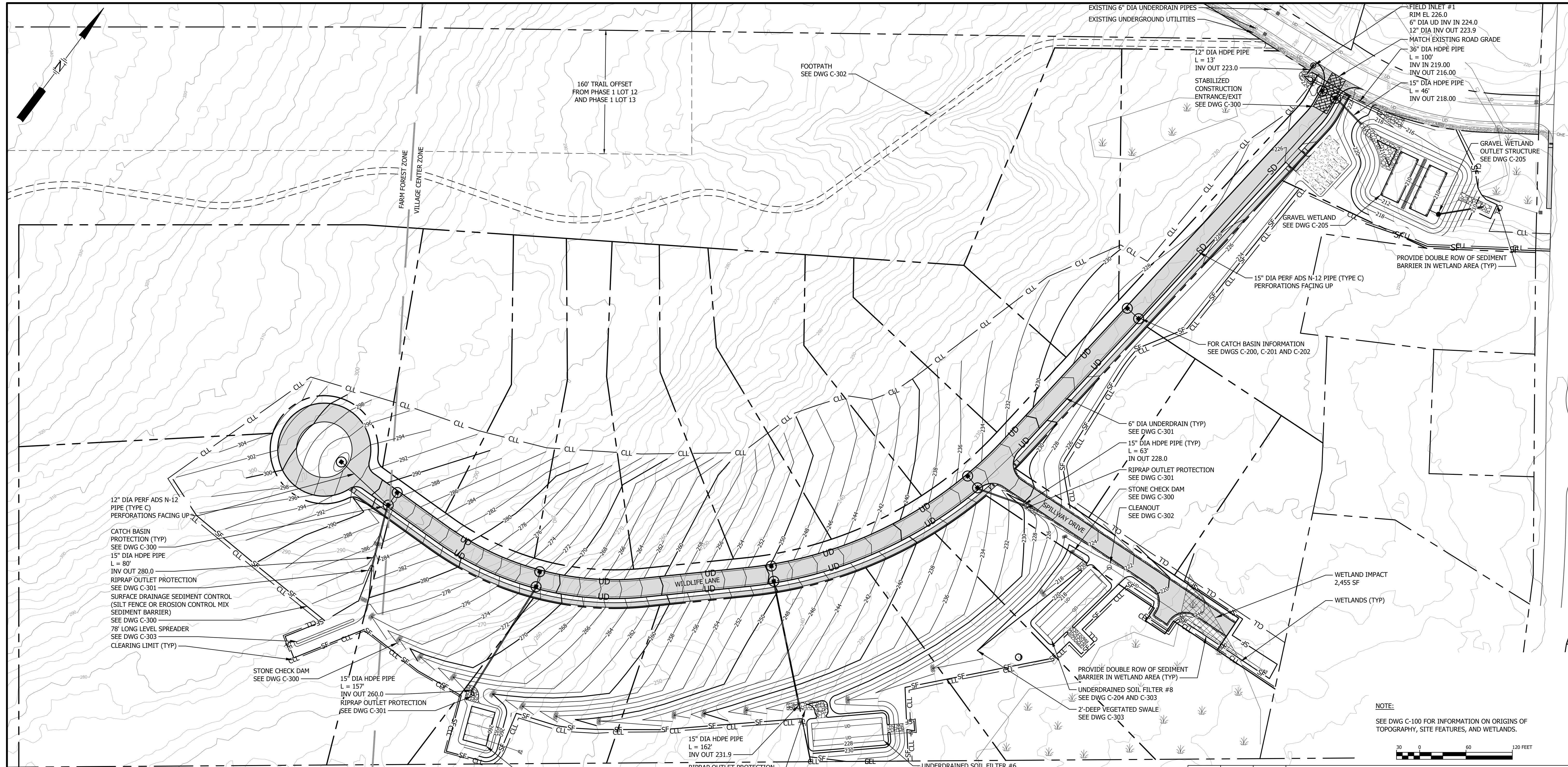












12" DIA PERF ADS N-12 PIPE (TYPE C) PERFORATIONS FACING UP  
 CATCH BASIN PROTECTION (TYP) SEE DWG C-300  
 15" DIA HDPE PIPE L = 80'  
 INV OUT 280.0  
 RIPRAP OUTLET PROTECTION SEE DWG C-301  
 SURFACE DRAINAGE SEDIMENT CONTROL (SILT FENCE OR EROSION CONTROL MIX SEDIMENT BARRIER) SEE DWG C-300  
 78" LONG LEVEL SPREADER SEE DWG C-303  
 CLEARING LIMIT (TYP)

STONE CHECK DAM SEE DWG C-300  
 15" DIA HDPE PIPE L = 157'  
 INV OUT 260.0  
 RIPRAP OUTLET PROTECTION SEE DWG C-301

UNDERDRAINED SOIL FILTER #7 SEE DWG C-203 AND C-303

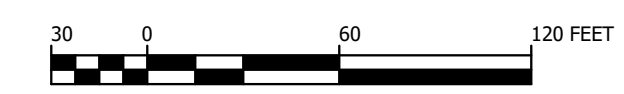
15" DIA HDPE PIPE L = 162'  
 INV OUT 231.9  
 RIPRAP OUTLET PROTECTION SEE DWG C-301

UNDERDRAINED SOIL FILTER #6 SEE DWG C-203 AND C-303

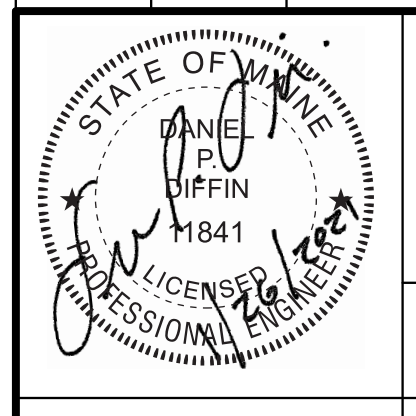
6" DIA UNDERDRAIN (TYP) SEE DWG C-301  
 15" DIA HDPE PIPE (TYP) L = 63'  
 IN OUT 228.0  
 RIPRAP OUTLET PROTECTION SEE DWG C-301  
 STONE CHECK DAM SEE DWG C-300  
 CLEANOUT SEE DWG C-302

PROVIDE DOUBLE ROW OF SEDIMENT BARRIER IN WETLAND AREA (TYP)  
 UNDERDRAINED SOIL FILTER #8 SEE DWG C-204 AND C-303  
 2'-DEEP VEGETATED SWALE SEE DWG C-303

NOTE:  
 SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.



REV.	BY	DATE	STATUS
DPD	12/2020		REVISED PER STAFF COMMENTS
DPD	10/2020		ISSUED FOR TOWN AND MEDEP PERMIT REVIEW



CONSTRUCTION AGGREGATE INC.  
 VILLAGE CENTER ESTATES, PHASE 2  
 NORTH YARMOUTH, MAINE

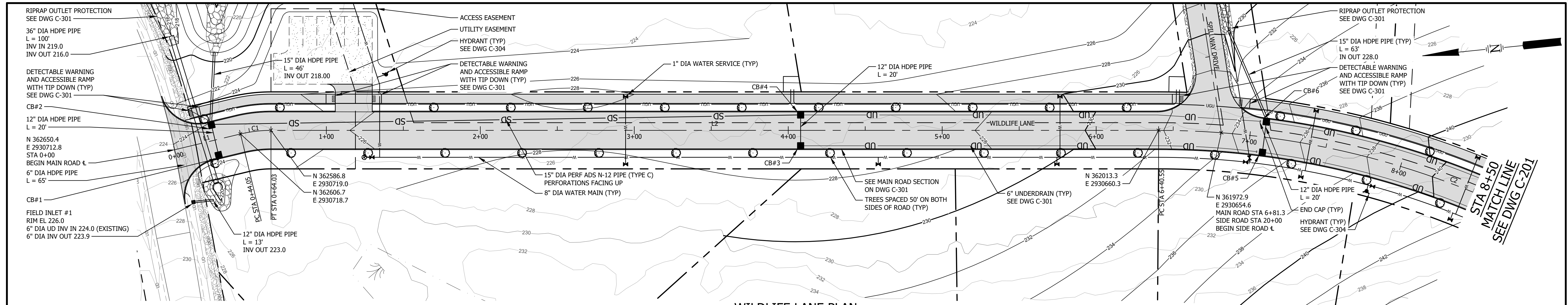
GRADING AND EROSION CONTROL PLAN

**SME**  
 SEVEE & MAHER  
 ENGINEERS  
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 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
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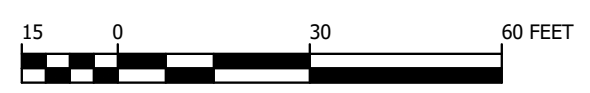
DESIGN BY: JTR  
 DRAWN BY: SJM  
 DATE: 7/2020  
 CHECKED BY: BDP  
 LMN: GRAD-EROS  
 CTB: SME-STD

JOB NO. 18295.01 DWG FILE BASE **C-104**

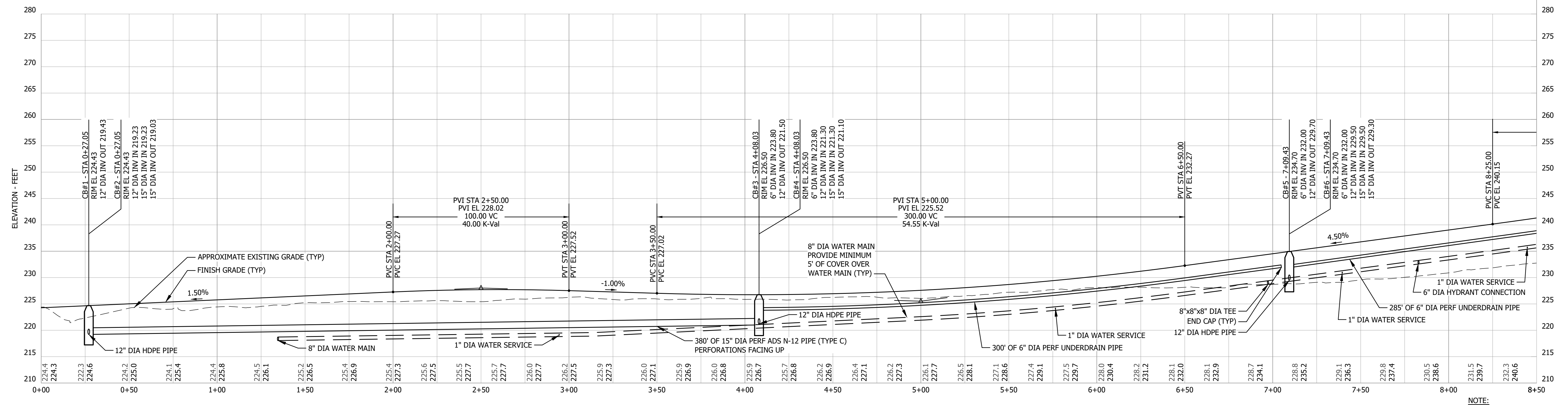




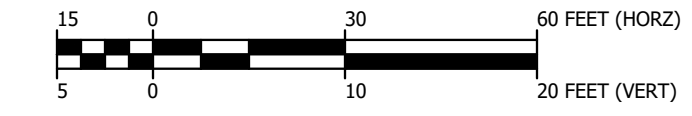
**WILDLIFE LANE PLAN  
STA 0+00 TO 8+50**



- NOTE:  
 1. FOR CENTERLINE LINE AND CURVE TABLE INFORMATION SEE DWG C-103.  
 2. TIPDOWNS REQUIRED AT ALL DRIVEWAY ENTRANCES. SEE DWG C-301



**WILDLIFE LANE PROFILE**



NOTE:  
SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.

REV.	BY	DATE	STATUS
DPD	12/2020		REVISED PER YARMOUTH WATER DISTRICT COMMENTS
DPD	12/2020		REVISED PER STAFF COMMENTS
DPD	10/2020		ISSUED FOR TOWN AND MEDEP PERMIT REVIEW

**CONSTRUCTION AGGREGATE INC.**  
**VILLAGE CENTER ESTATES, PHASE 2**  
**NORTH YARMOUTH, MAINE**

**WILDLIFE LANE PLAN AND PROFILE**  
**STA 0+00 TO STA 8+50**

**SME**  
**SEVEE & MAHER**  
**ENGINEERS**

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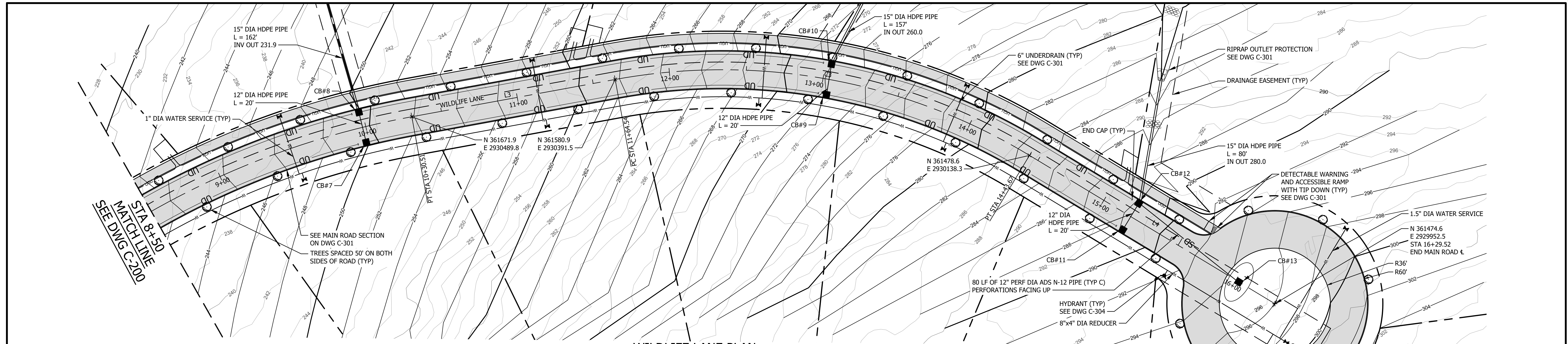
DESIGN BY: JTR  
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 CHECKED BY: BDP  
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 CTB: SME-STD

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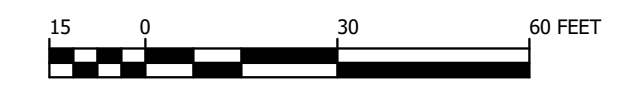
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**C-200**

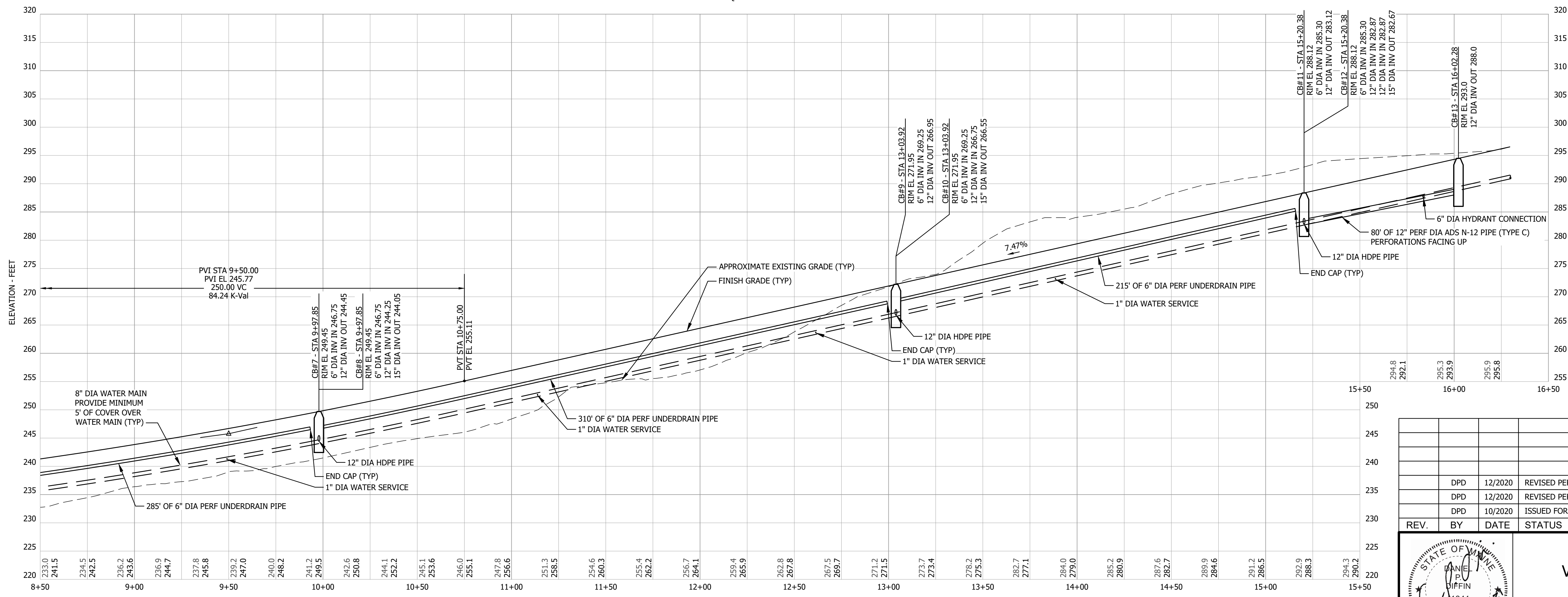




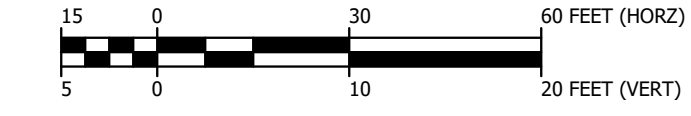
**WILDLIFE LANE PLAN  
STA 8+50 TO 16+29.5**



- NOTE:**  
 1. FOR CENTERLINE LINE AND CURVE TABLE INFORMATION SEE DWG C-103.  
 2. TIPOWNS REQUIRED AT ALL DRIVEWAY ENTRANCES. SEE DWG C-301



**WILDLIFE LANE PROFILE**



**NOTE:**  
 SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.

REV.	BY	DATE	STATUS
	DPD	12/2020	REVISED PER YARMOUTH WATER DISTRICT COMMENTS
	DPD	12/2020	REVISED PER STAFF COMMENTS
	DPD	10/2020	ISSUED FOR TOWN AND MEDEP PERMIT REVIEW

**CONSTRUCTION AGGREGATE INC.**  
 VILLAGE CENTER ESTATES, PHASE 2  
 NORTH YARMOUTH, MAINE

**WILDLIFE LANE PLAN AND PROFILE**  
 STA 8+50 TO STA 16+29.52

DESIGN BY: JTR  
 DRAWN BY: SJM  
 DATE: 1/2020  
 CHECKED BY: BDP  
 LMN: PLAN-PROF  
 CTB: SME-STD

**SME**  
 SEVEE & MAHER  
 ENGINEERS

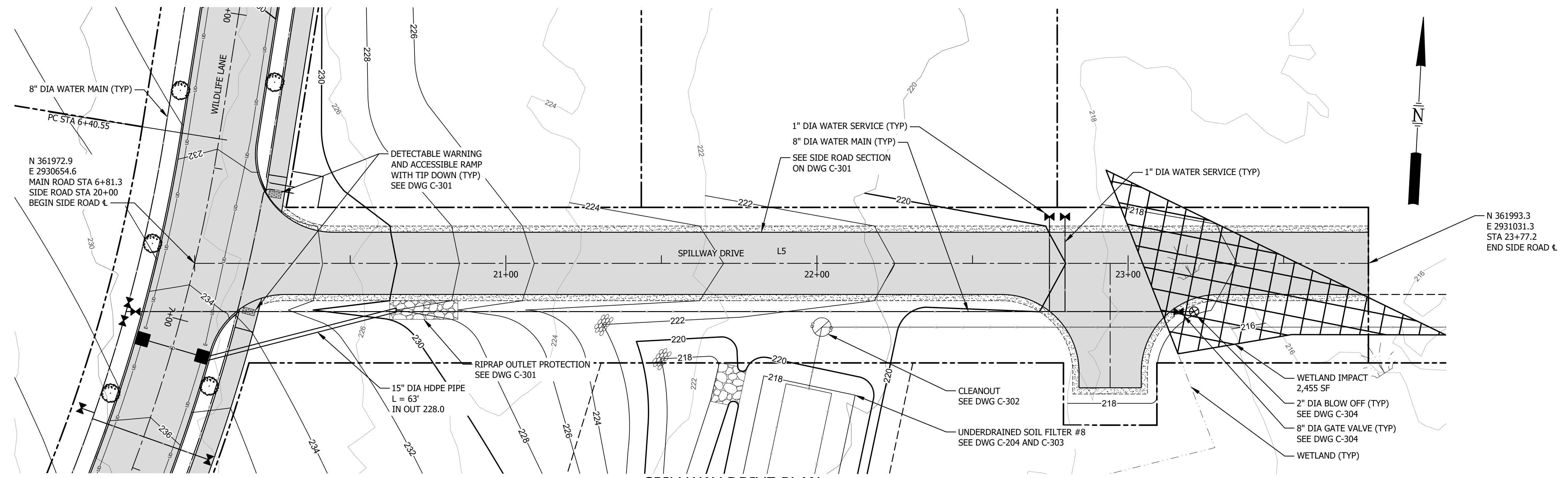
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4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
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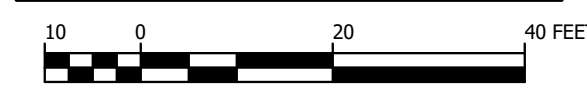
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**C-201**

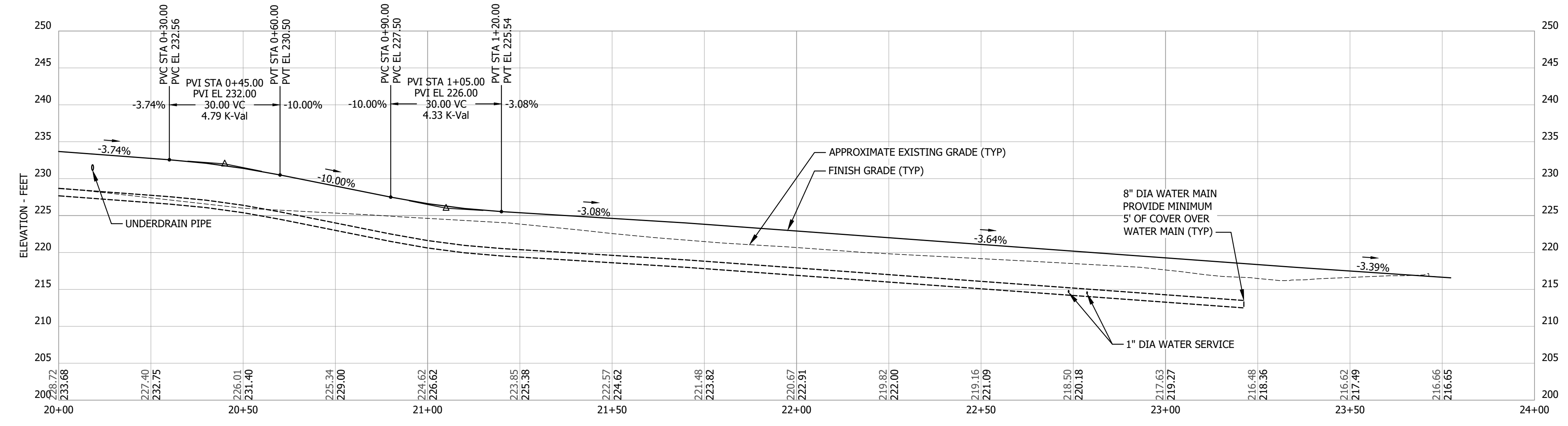




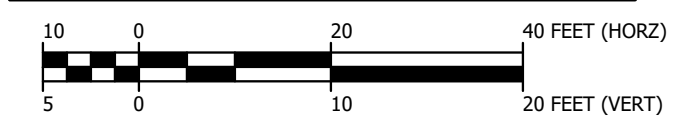
**SPILLWAY DRIVE PLAN**



- NOTE:
1. FOR CENTERLINE LINE AND CURVE TABLE INFORMATION SEE DWG C-103.
  2. TIPDOWNS REQUIRED AT ALL DRIVEWAY ENTRANCES. SEE DWG C-301

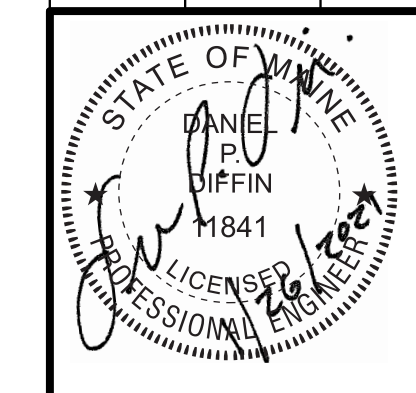


**SPILLWAY DRIVE PROFILE**



NOTE:  
SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.

REV.	BY	DATE	STATUS
DPD	12/2020		REVISED PER YARMOUTH WATER DISTRICT COMMENTS
DPD	12/2020		REVISED PER STAFF COMMENTS
DPD	10/2020		ISSUED FOR TOWN AND MEDEP PERMIT REVIEW



**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

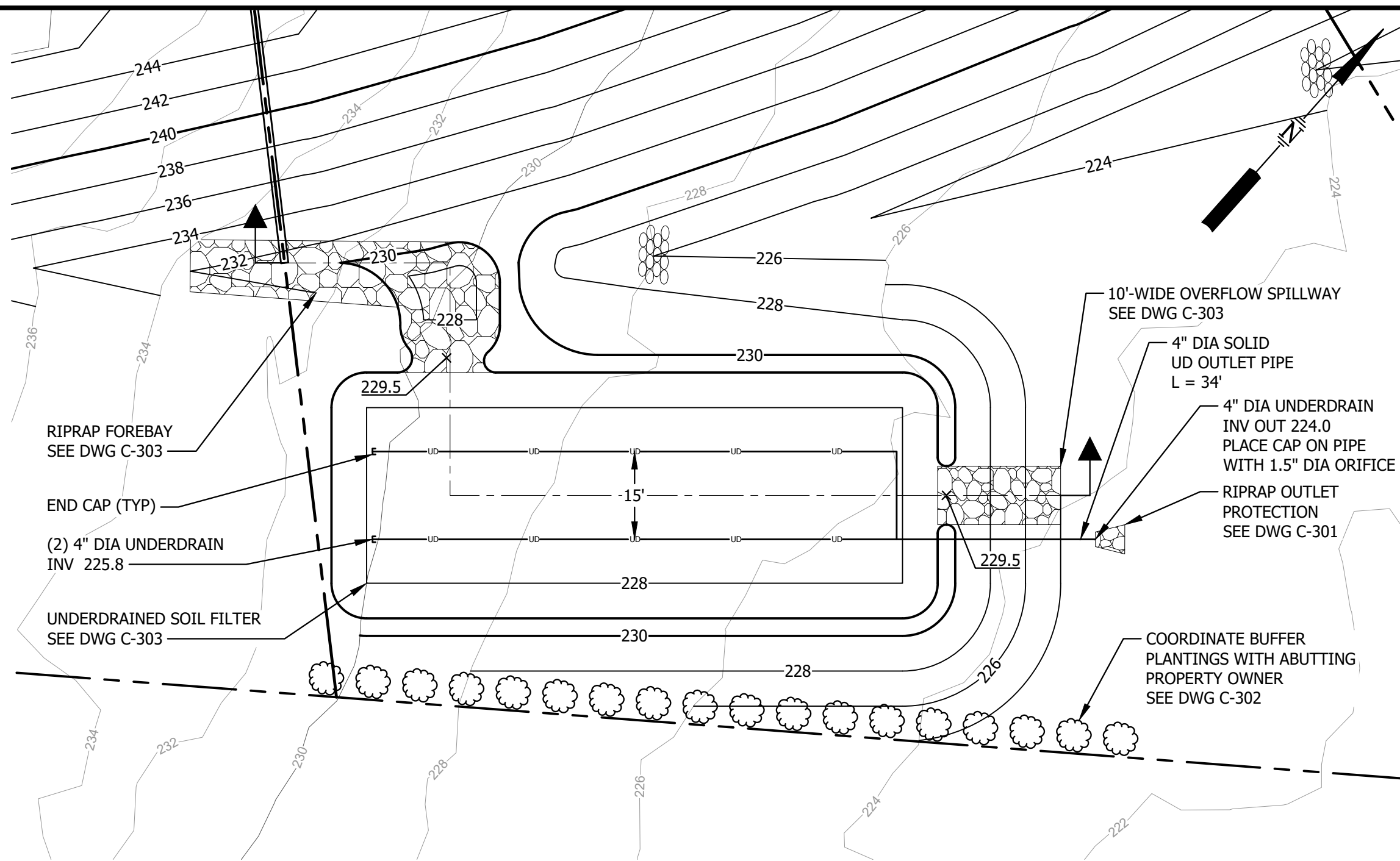
**SPILLWAY DRIVE PLAN AND PROFILE**

**SME**  
SEVEE & MAHER  
ENGINEERS  
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4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
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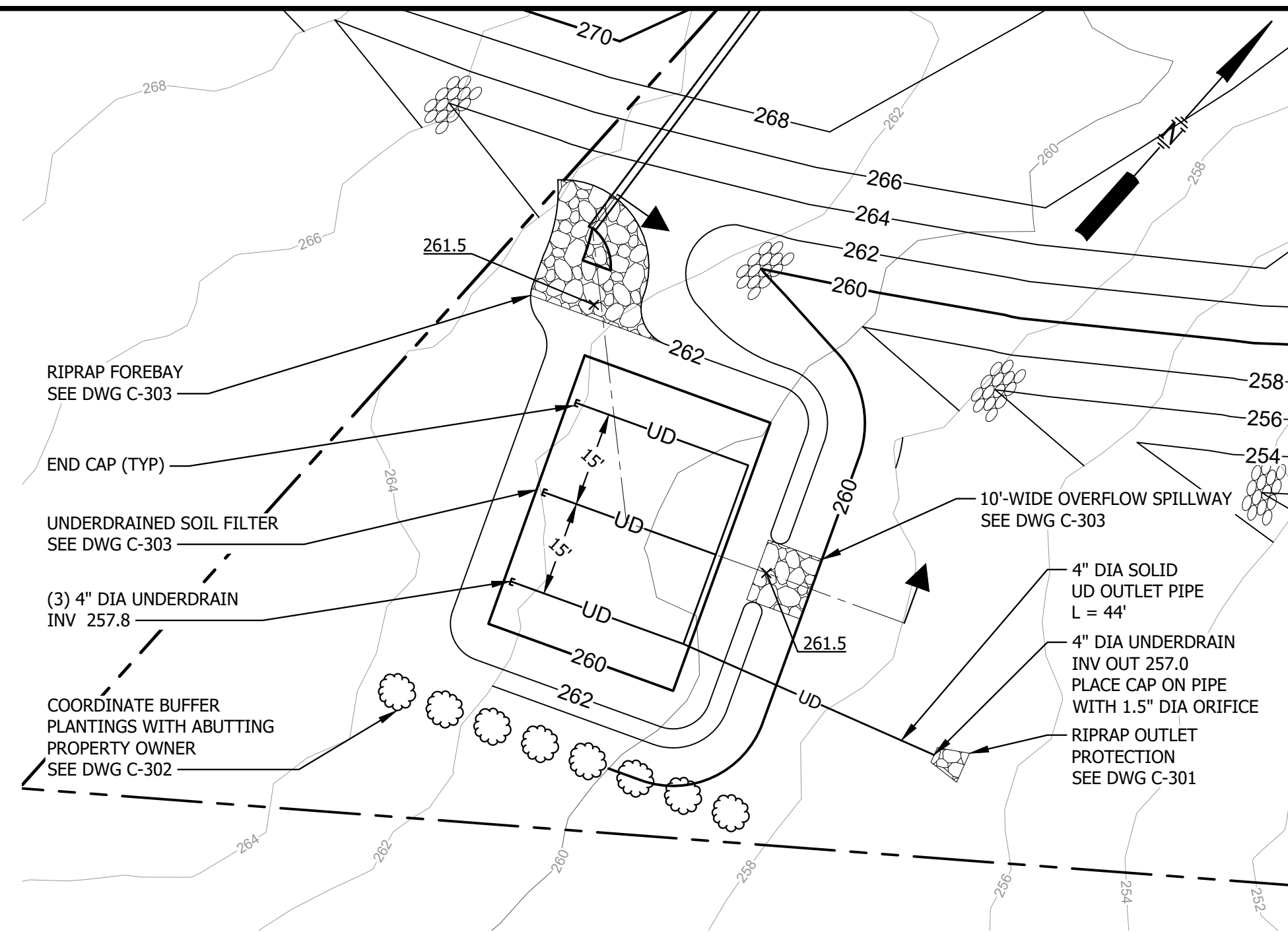
DESIGN BY:	JTR
DRAWN BY:	SJM
DATE:	1/2020
CHECKED BY:	BDP
LMN:	PLAN-PROF
CTB:	SME-STD

JOB NO. 18295.01    DWG FILE BASE    **C-202**

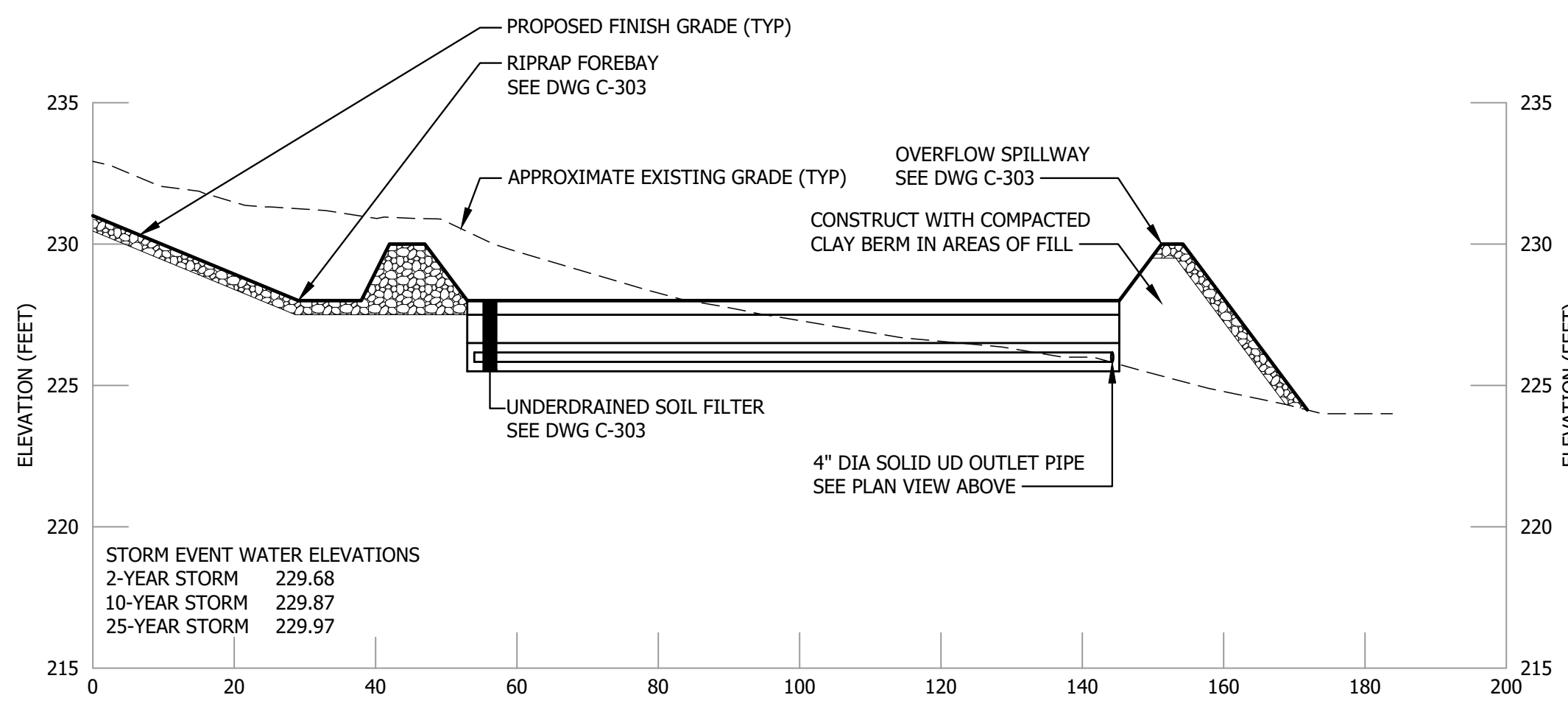




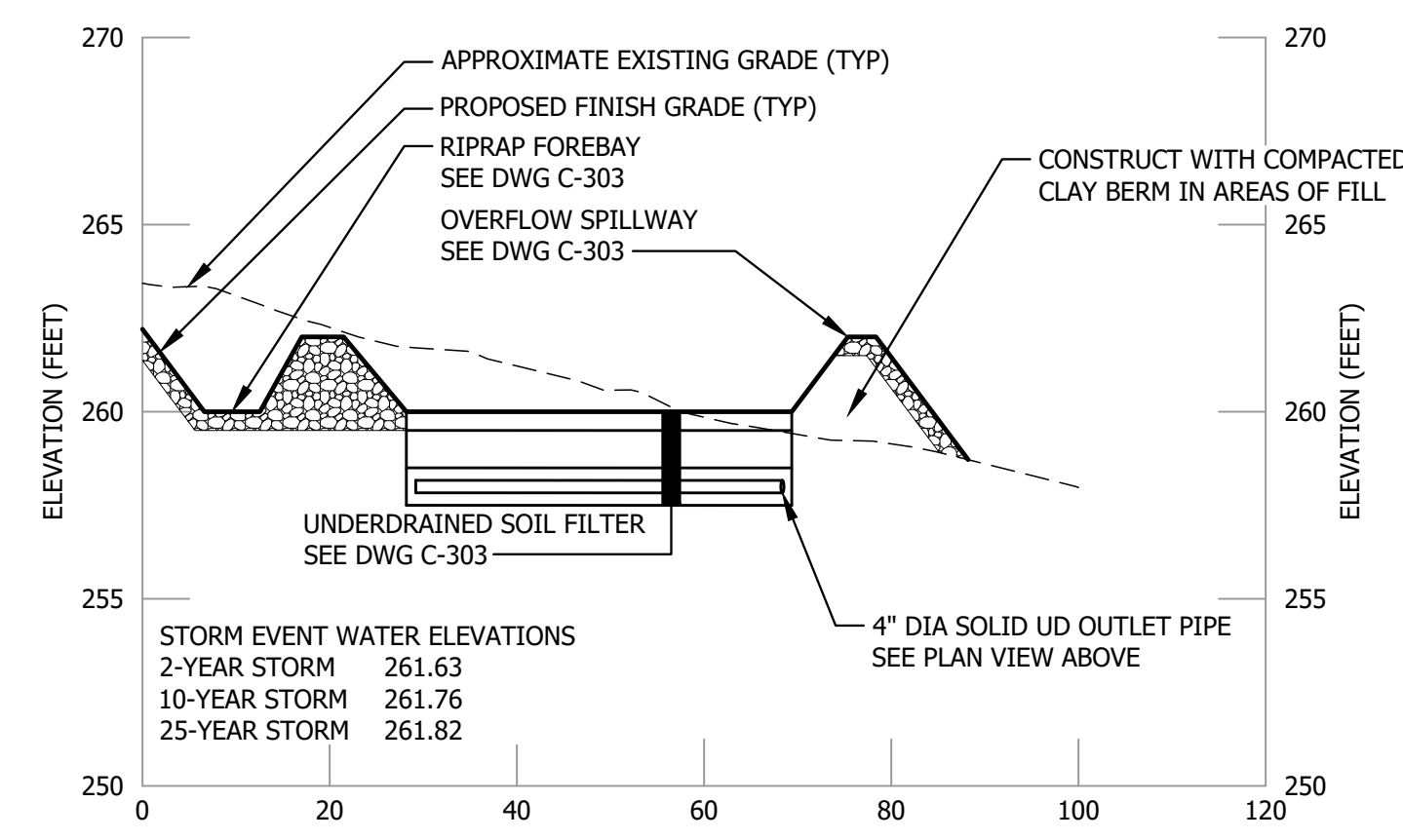
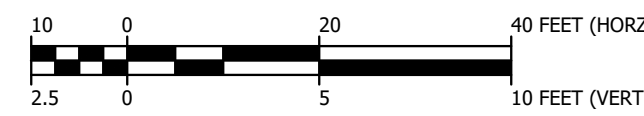
**UNDERDRAINED SOIL FILTER #6 PLAN**



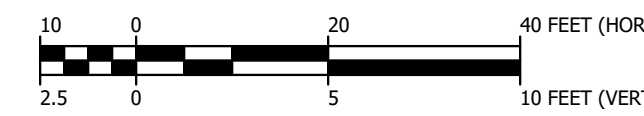
**UNDERDRAINED SOIL FILTER #7 PLAN**



**UNDERDRAINED SOIL FILTER #6 SECTION**



**UNDERDRAINED SOIL FILTER #7 SECTION**



DPD	12/2020	REVISED PER STAFF COMMENTS	
DPD	10/2020	ISSUED FOR TOWN AND MEDEP PERMIT REVIEW	
REV.	BY	DATE	STATUS

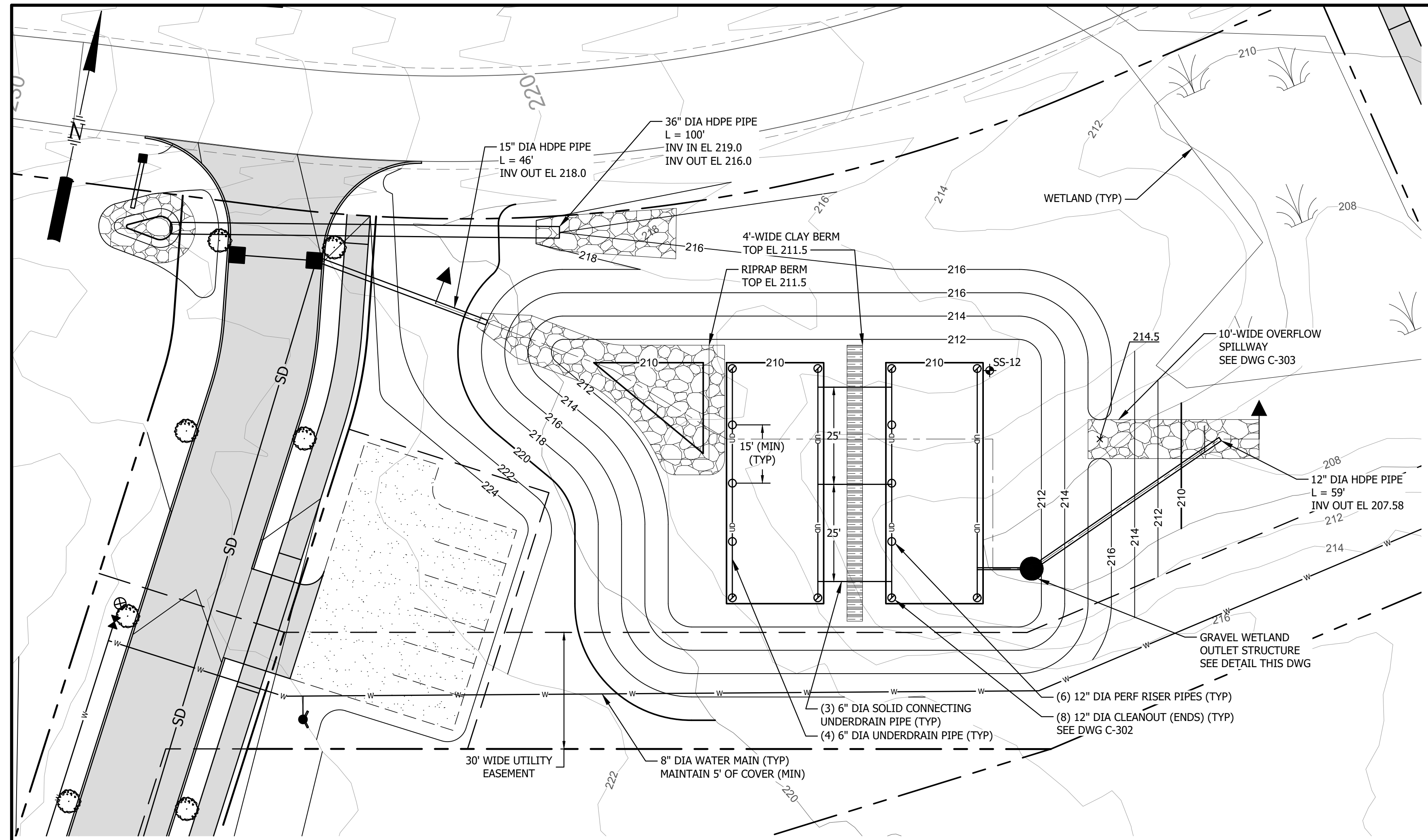
	<b>CONSTRUCTION AGGREGATE INC.</b> VILLAGE CENTER ESTATES, PHASE 2 NORTH YARMOUTH, MAINE	
	<b>UNDERDRAINED SOIL FILTER</b> PLANS AND SECTIONS	
 <small>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</small> 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com	DESIGN BY: JTR	DRAWN BY: JRL
	DATE: 10/2020	CHECKED BY: BDP
	LMN: PLAN-PROF	CTB: SME-STD
	JOB NO. 18295.01	DWG FILE BASE

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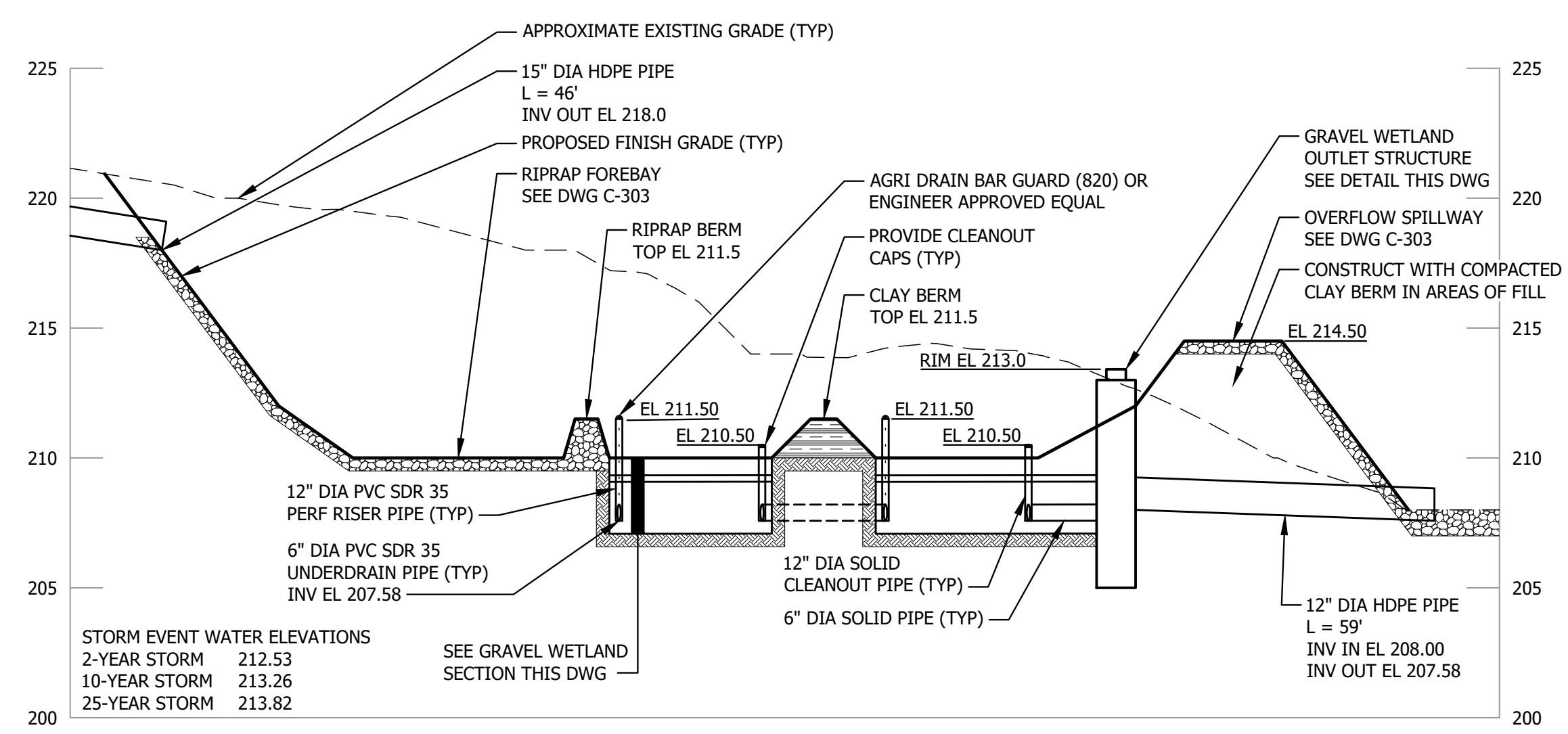
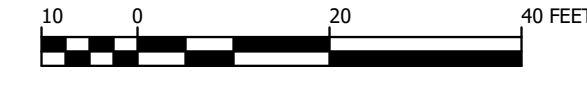




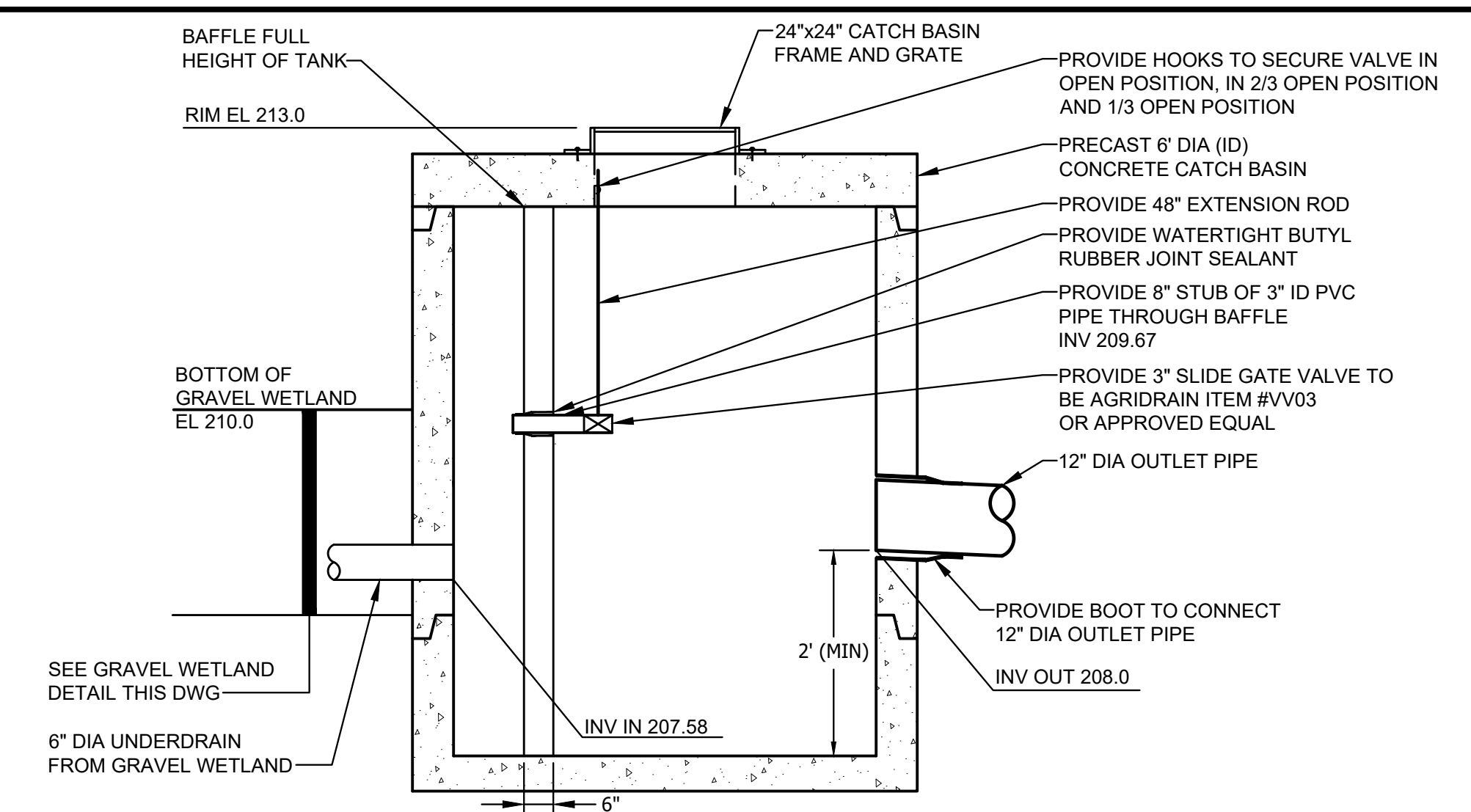
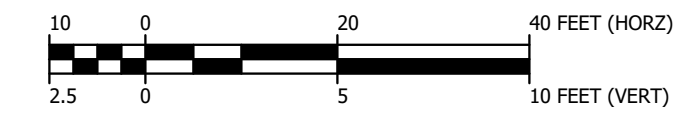




**GRAVEL WETLAND PLAN**



**GRAVEL WETLAND SECTION**



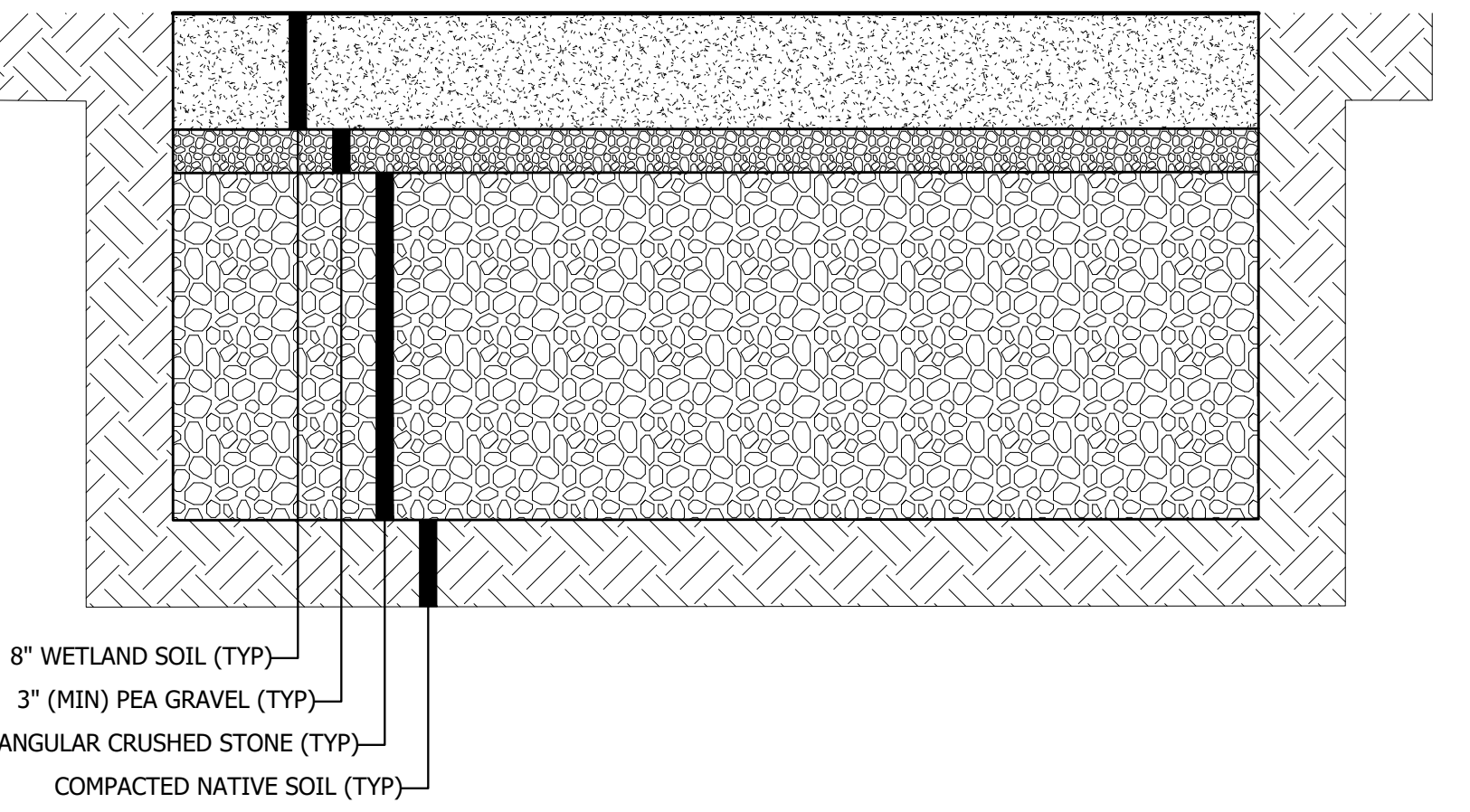
**OUTLET CONTROL STRUCTURE NOTES:**

THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

PRODUCT DATA: SUBMIT PRODUCT DATA FOR ALL MATERIALS USED ON THE JOB FOR REVIEW FOR LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN CONTRACT DOCUMENTS.

SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURE SHALL PROVIDE ANTI-FLOTATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOTATION.

**GRAVEL WETLAND OUTLET CONTROL STRUCTURE**

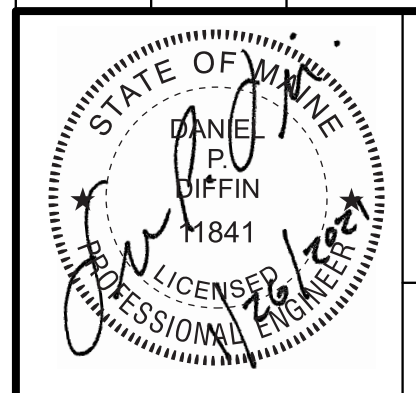


**NOTES:**

1. WETLAND SOIL TO BE MANUFACTURED USING COMPOST, SAND AND SOME FINE SOIL. SOIL SHALL CONTAIN GREATER THAN 15% ORGANIC MATTER. CLAY CONTENT OF THE SOIL SHALL BE LESS THAN 15%. SUBMIT TESTS OF MATERIALS MEETING THE ABOVE.
2. PEA GRAVEL TO MEET MDOT SPECIFICATION 703.27 UNDERDRAIN TYPE C AND SHALL MEET THE COARSE GRAVEL SPEC ON C-201.
3. SEED GRAVEL WETLAND WITH "NEW ENGLAND WET MIX" FROM NEW ENGLAND WETLAND PLANTS. APPLICATION RATE 1LB/2500 SQ FT (18LBS/ACRE)

**GRAVEL WETLAND SECTION**

REV.	BY	DATE	STATUS
	DPD	12/2020	REVISED PER STAFF COMMENTS
	DPD	10/2020	ISSUED FOR TOWN AND MEDEP PERMIT REVIEW



**CONSTRUCTION AGGREGATE INC.**  
**VILLAGE CENTER ESTATES, PHASE 2**  
**NORTH YARMOUTH, MAINE**

**STORMWATER MANAGEMENT AREA**  
**GRAVEL WETLAND**

**SME**  
**SEVEE & MAHER**  
**ENGINEERS**  
 ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE  
 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
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DESIGN BY: JTR  
 DRAWN BY: JRL  
 DATE: 10/2020  
 CHECKED BY: BDP  
 LMN: PLAN-PROF  
 CTB: SME-STD

JOB NO. 18295.01 DWG FILE BASE C-205



# EROSION CONTROL NOTES:

## A. GENERAL

- 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), October 2016.
  - The site Contractor (to be determined) will be responsible for the inspection and repair/replacement/maintenance of all erosion control measures, disturbed areas, material storage areas, and vehicle access points 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 as directed by the Owner. 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 ryegrass within 7 days of formation, or temporarily mulched.
  - Winter excavation and earthwork will be completed so as to minimize exposed areas while satisfactorily completing the project. Limit exposed areas to those areas in which work is to occur during the following 15 days and that can be mulched in one day. All areas will be considered denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed, seeded, and mulched.
- Install any added measures necessary to control erosion/sedimentation. The particular measure used will be dependent upon site conditions, the size of the area to be protected, and weather conditions.
- To minimize areas without erosion control protection, continuation of earthwork operations on additional areas will not begin until the exposed soil surface on the area being worked has been stabilized.

## 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.
- 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.
    - 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.
  - STONE CHECK DAMS**

Stone check dams will be installed in grass-lined swales and ditches during construction. Remove stone check dams when they have served their useful purpose, but not before upgradient areas have been permanently stabilized.

### 4. EROSION CONTROL MIX SEDIMENT BARRIER

- Where approved, erosion control mix sediment barriers may be used as a substitute for silt fence. See the details in this drawing set for specifications.
- 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 and reduce problems associated with mud and dust production from exposed soil surface during construction with temporary vegetation.

### 6. TEMPORARY MULCHING

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

- All areas will be considered to be denuded until seeded and mulched. Hay and straw mulch will be applied at a rate of twice the normal accepted rate.
- Mulch will not be spread on top of snow.
- After each day of final grading, the area will be properly stabilized with anchored hay or straw or erosion control matting.
- Between the dates of November 1 and April 15, all mulch will be anchored by either mulch netting, emulsion chemical, tracking or wood cellulose fiber.
- Soil Stockpiling: Stockpiles of soil or subsoil will be mulched for over-winter protection with hay or straw at twice the normal rate or with a 4-inch layer of erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall. Any soil stockpiles shall not be placed (even covered with mulch) within 100 feet from any natural resources.
- Seeding: Dormant seeding may be placed prior to the placement of mulch or erosion control blankets. If dormant seeding is used for the site, all disturbed areas will receive 4 inches of loam and seed at an application rate of three times the rate for permanent seeding. All areas seeded during the winter will be inspected in the spring for adequate catch. All areas insufficiently vegetated (less than 75 percent catch) will be revegetated by replacing loam, seed, and mulch.

If dormant seeding is not used for the site, all disturbed areas will be revegetated in the spring.

- Maintenance: Maintenance measures will be applied as needed during the entire construction season. After each rainfall, snow storm, or period of thawing and runoff, and at least once a week, the site Contractor will perform a visual inspection of all installed erosion control measures and perform repairs as needed to ensure their continuous function.
- Identified repairs will be started no later than the end of the net work day and be completed within seven (7) calendar days.

- Following the temporary and/or final seeding and mulching, the Contractor will, in the spring, inspect and repair any damages and/or bare spots. An established vegetative cover means a minimum of 85 to 90 percent of areas vegetated with vigorous growth.
- OVER-WINTER CONSTRUCTION EROSION CONTROL MEASURES**
    - 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.

- 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 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 (October 15 to April 15) use heavy grade mats 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).

## C. 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 road surface materials.

## D. CONSTRUCTION DE-WATERING

- Water from construction de-watering operations shall be cleaned of sediment before reaching wetlands, water bodies, streams or site boundaries. Utilize temporary sediment basins, erosion control soil filter berms backed by staked hay bales, A Dirt Bag 55" sediment filter bag by ACF Environmental, or other approved Best Management Practices (BMP's).
- In sensitive areas near streams or ponds, discharge the water from the de-watering operation into a temporary sediment basin created by a surrounding filter berm of uncompacted erosion control mix immediately backed by staked hay bales (see the site details). Locate the temporary sediment basin at least 100 feet from the nearest water body, such that the filtered water will flow through undisturbed vegetated soil areas prior to reaching the water body or property line.

## E. PERMANENT MEASURES

- Riprapped Aprons: All storm drain pipe outlets and the inlet and outlet of culverts will have riprap aprons to protect against scour and deterioration.
- 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.

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.

- Seeding will be completed by August 15 of each year. Late season seeding may be done between August 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:	Roadside (lbs/acre)	Lawn (lbs/acre)
Kentucky Bluegrass	20	55
White Clover	5	0
Creeping Red Fescue	20	55
Perennial Ryegrass	5	15

- Mulch in accordance with specifications for temporary mulching.
- 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.
- Ditches and Channels: All ditches on-site will be lined with North American Green S75 erosion control mesh (or an approved equal) upon installation of loam and seed.

## F. WINTER CONSTRUCTION AND STABILIZATION

- Natural Resource Protection:** During winter construction, a double-row of sediment barriers (i.e., silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Projects crossing the natural resource will be protected a minimum distance of 100 feet on either side from the resource.
- Sediment Barriers:** During frozen conditions, sediment barriers may consist of erosion control mix berms or any other recognized sediment barriers as frozen soil prevents the proper installation of hay bales or silt fences.
- Mulching:**
  - All areas will be considered to be denuded until seeded and mulched. Hay and straw mulch will be applied at a rate of twice the normal accepted rate.
  - Mulch will not be spread on top of snow.
  - After each day of final grading, the area will be properly stabilized with anchored hay or straw or erosion control matting.
  - Between the dates of November 1 and April 15, all mulch will be anchored by either mulch netting, emulsion chemical, tracking or wood cellulose fiber.

- Maintenance: Maintenance measures will be applied as needed during the entire construction season. After each rainfall, snow storm, or period of thawing and runoff, and at least once a week, the site Contractor will perform a visual inspection of all installed erosion control measures and perform repairs as needed to ensure their continuous function.
  - Identified repairs will be started no later than the end of the net work day and be completed within seven (7) calendar days.
- Following the temporary and/or final seeding and mulching, the Contractor will, in the spring, inspect and repair any damages and/or bare spots. An established vegetative cover means a minimum of 85 to 90 percent of areas vegetated with vigorous growth.

- OVER-WINTER CONSTRUCTION EROSION CONTROL MEASURES**
  - 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.

- 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:
  - Stabilize the soil with temporary vegetation and erosion control mesh.
  - Stabilize the slope with erosion control mix.
  - Stabilize the slope with stone riprap.

- Stabilization of Ditches and Channels:** All stone-lined ditches and channels will 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.

## H. MAINTENANCE PLAN

- 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.

## I. Housekeeping

- Spill prevention.** Controls must be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.
- Groundwater protection.** During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.
- Fugitive sediment and dust.** Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control. If off-site tracking occurs roadways should be swept immediately and no loss once a week and prior to significant storm events.
- Debris and other materials.** Litter, construction debris, and chemicals exposed to stormwater must be prevented from becoming a pollutant source.

- Trench or foundation de-watering.** Trench de-watering is the removal of water from trenches, foundations, coffer dams, ponds, and other areas within the construction area that retain water after excavation. In most cases the collected water is heavily silted and hinders correct and safe construction practices. The collected water must be removed from the ponded area, either through gravity or pumping, and must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved by the department.

- Authorized Non-stormwater discharges.** Identify and prevent contamination by non-stormwater discharges. Where allowed non-stormwater discharges exist, they must be identified and steps should be taken to ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge. Authorized non-stormwater discharges are:
  - Discharges from firefighting activity;
  - Fire hydrant flushings;
  - Vehicle washwater if detergents are not used and washing is limited to the exterior of vehicles (engine, undercarriage and transmission washing is prohibited);
  - Dust control runoff in accordance with permit conditions and Appendix C(3);
  - Routine external building washdown, not including surface paint removal, that does not involve detergents;
  - Pavement washwater (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material had been removed) if detergents are not used;
  - Untampered air conditioning or compressor condensate;
  - Untampered groundwater or spring water;
  - Foundation or footer drain-water where flows are not contaminated;
  - Untampered excavation dewatering (see requirements in Appendix C(5));
  - Potable water sources including waterline flushings; and
  - Landscape irrigation.

- Unauthorized non-stormwater discharges.** The Department's approval under this Chapter does not authorize a discharge that is mixed with a source of non-stormwater, other than those discharges in compliance with Appendix C (6). Specifically, the Department's approval does not authorize discharges of the following:
  - Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds or other construction materials;
  - Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance;
  - Soaps, solvents, or detergents used in vehicle and equipment washing; and
  - Toxic or hazardous substances from a spill or other release.

- Additional requirements.** Additional requirements may be applied on a site-specific basis.

## 1. CONSTRUCTION SEQUENCE

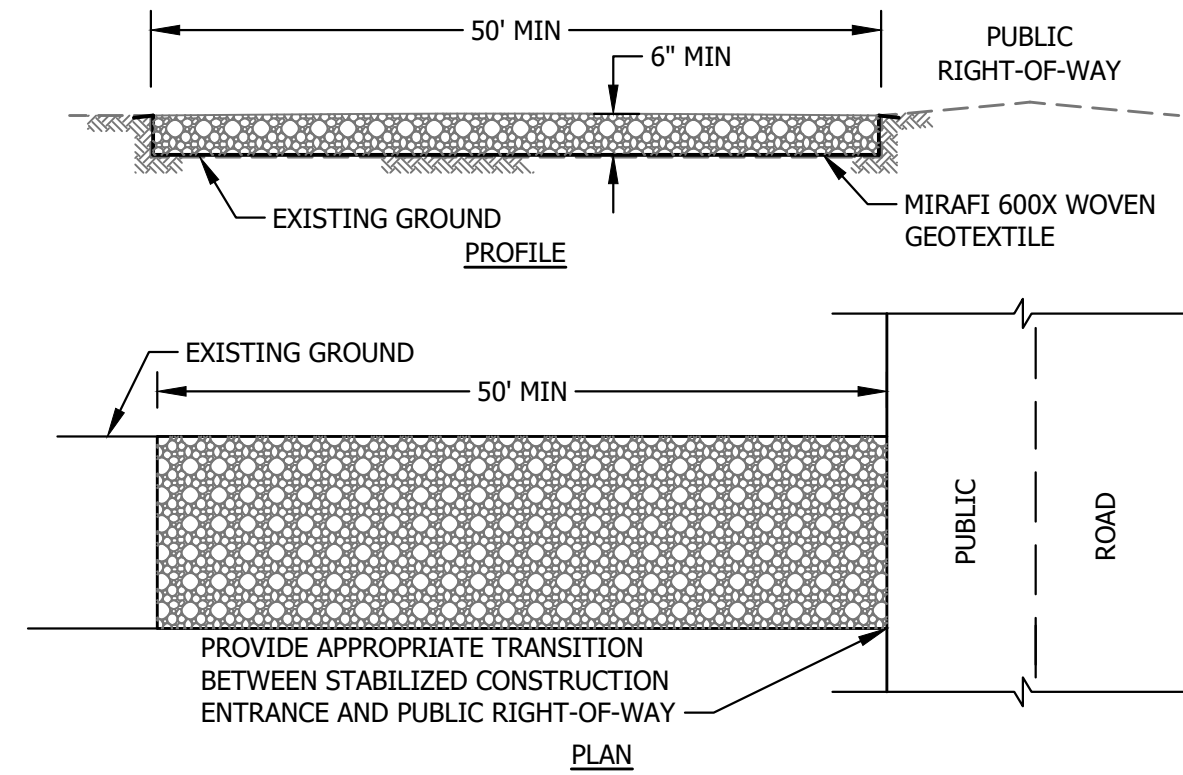
In general, the expected sequence of construction for each phase is provided below. Construction is proposed to start in and end in 2019.

- Mobilization
- Install temporary erosion control measures
- Clearing and grubbing
- Site Grading
- Install site utilities
- Install road base, pavement, curbs and sidewalks
- Construct gravel wetland, level spreader, and underdrained soil filters
- Site stabilization, pavement, loam and seed, and landscaping

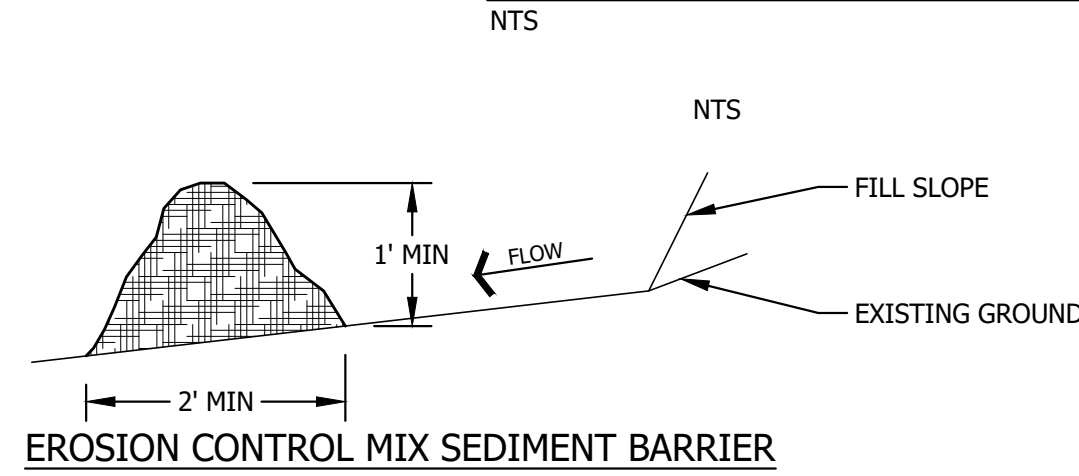
## CONSTRUCTION SPECIFICATIONS

### 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.



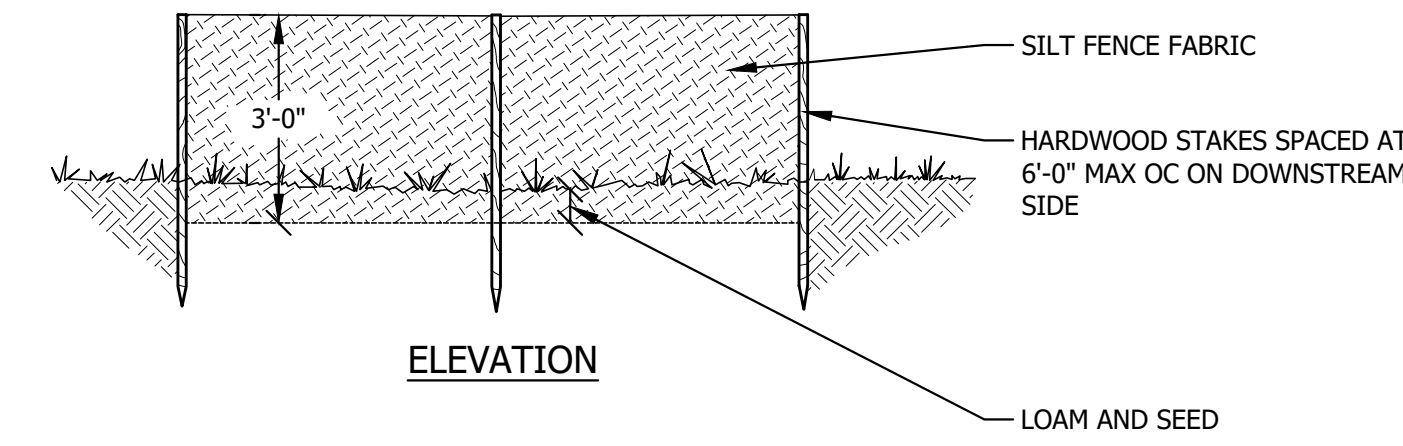
## STABILIZED CONSTRUCTION ENTRANCE/EXIT



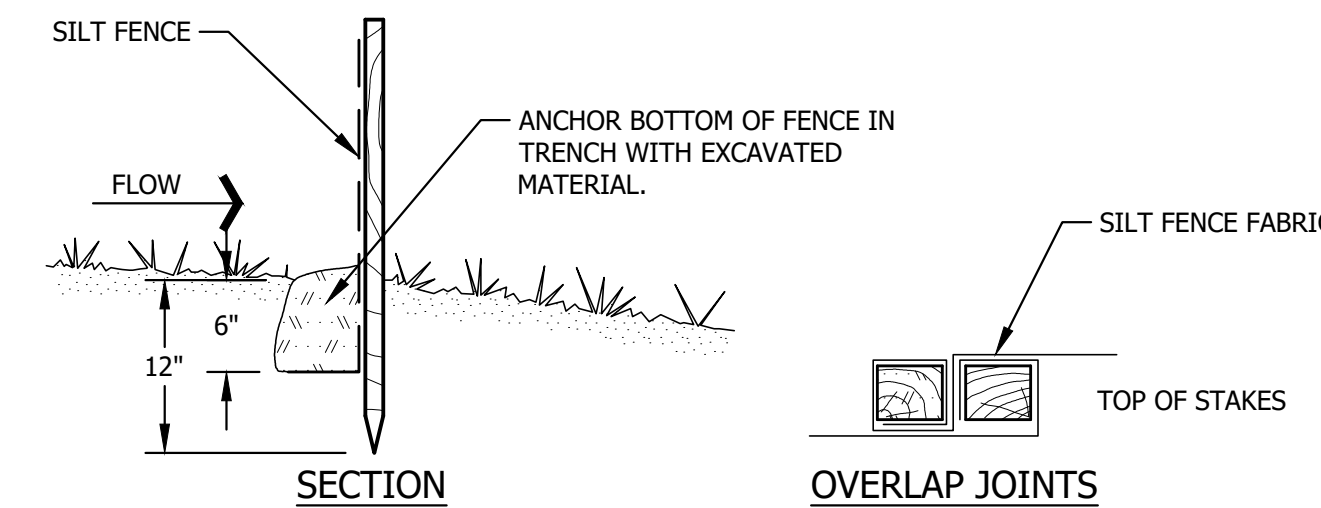
## EROSION CONTROL MIX SEDIMENT BARRIER

### NOTES:

- EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE SITE. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, REPROCESSED WOOD PRODUCTS OR BARK CHIPS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
  - ORGANIC MATERIAL: BETWEEN 20% - 100% (DRY WEIGHT BASIS)
  - PARTICLE SIZE: BY WEIGHT, 100% PASSING 6" SCREEN, 70-85% PASSING 0.75" SCREEN
  - THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
  - LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
  - SOLUBLE SALTS CONTENT SHALL BE LESS THAN 4.0 MMHOS/CM.
  - PH: 5.0 - 8.0
- ON SLOPES LESS THAN 5% OR AT THE BOTTOM OF SLOPES 2:1 OR LESS UP TO 20 FEET LONG, THE BARRIER MUST CONFORM TO THE ABOVE DIMENSIONS. ON THE LONGER OR STEEPER SLOPES, THE BARRIER SHOULD BE WIDER TO ACCOMMODATE THE ADDITIONAL FLOW.
- THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL ELEVATION. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.
- LOCATIONS WHERE OTHER BMP'S SHOULD BE USED:
  - AT LOW POINTS OF CONCENTRATED FLOW
  - BELOW CULVERT OUTLET APRONS
  - WHERE A PREVIOUS STAND-ALONE EROSION CONTROL MIX APPLICATION HAS FAILED
  - AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM (LARGE UPGRADED WATERHED)
  - AROUND CATCH BASINS AND CLOSED STORM DRAIN SYSTEMS.
- THE EROSION CONTROL MIX BARRIERS SHOULD BE INSPECTED REGULARLY AND AFTER EACH LARGE RAINFALL. REPAIR ALL DAMAGED SECTIONS OF BERM IMMEDIATELY BY REPLACING OR ADDING ADDITIONAL MATERIAL PLACED ON THE BERM TO THE DESIRED HEIGHT AND WIDTH.
- IT MAY BE NECESSARY TO REINFORCE THE BARRIER WITH SILT FENCE OR STONE CHECK DAMS IF THERE ARE SIGNS OF UNDERCUTTING OR THE IMPOUNDMENT OF LARGE VOLUMES OF WATER.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- REPLACE SECTIONS OF BERM THAT DECOMPOSE, BECOME CLOGGED WITH SEDIMENT OR OTHERWISE BECOME INEFFECTIVE. THE BARRIER SHOULD BE RESHAPED AS NEEDED.
- EROSION CONTROL MIX BARRIERS CAN BE LEFT IN PLACE AFTER CONSTRUCTION. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER BARRIER IS NO LONGER REQUIRED SHOULD BE SPREAD TO CONFORM TO THE EXISTING GRADE AND BE SEEDED AND MULCHED. WOODY VEGETATION CAN BE PLANTED INTO THE BARRIERS, OR THEY CAN BE OVER-SEEDDED WITH LEGUMES. IF THE BARRIER NEEDS TO BE REMOVED, IT CAN BE SPREAD OUT INTO THE LANDSCAPE.



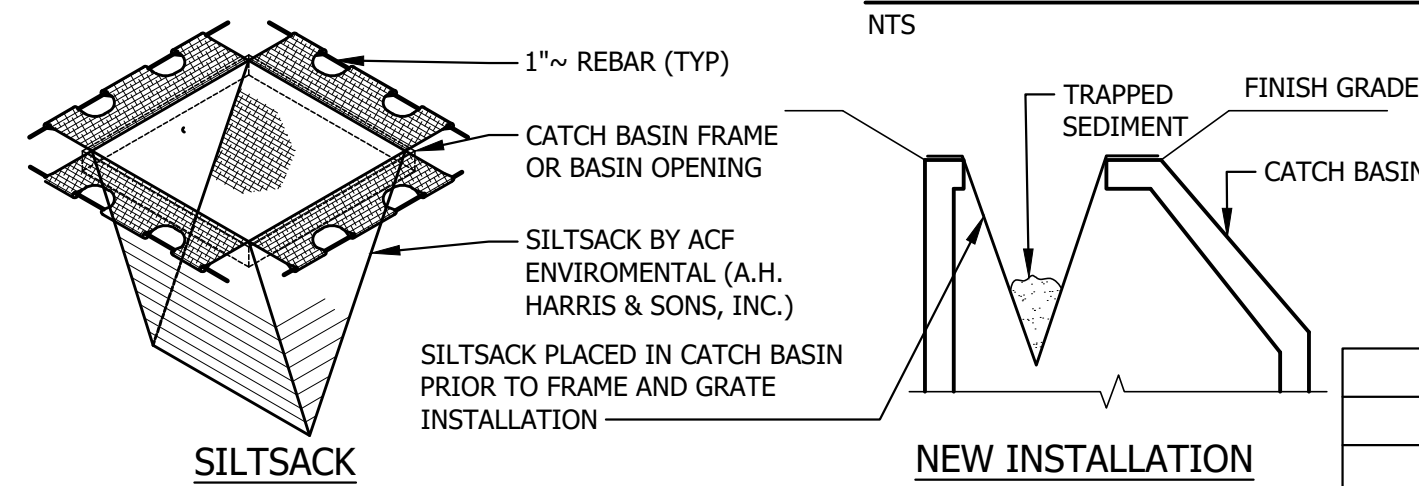
## ELEVATION



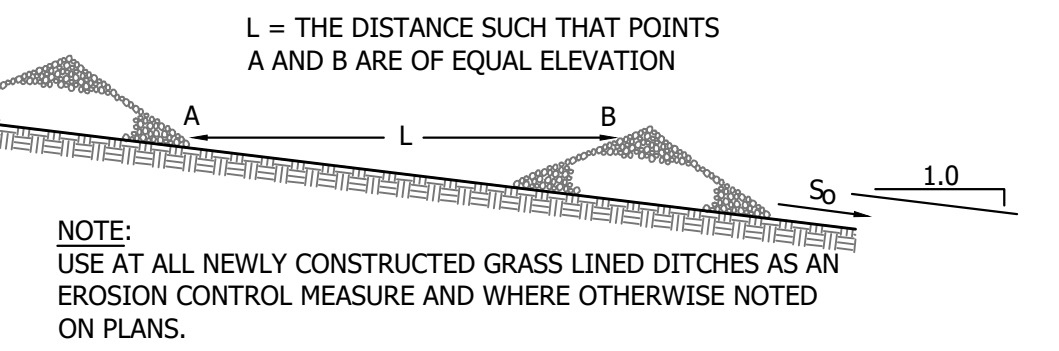
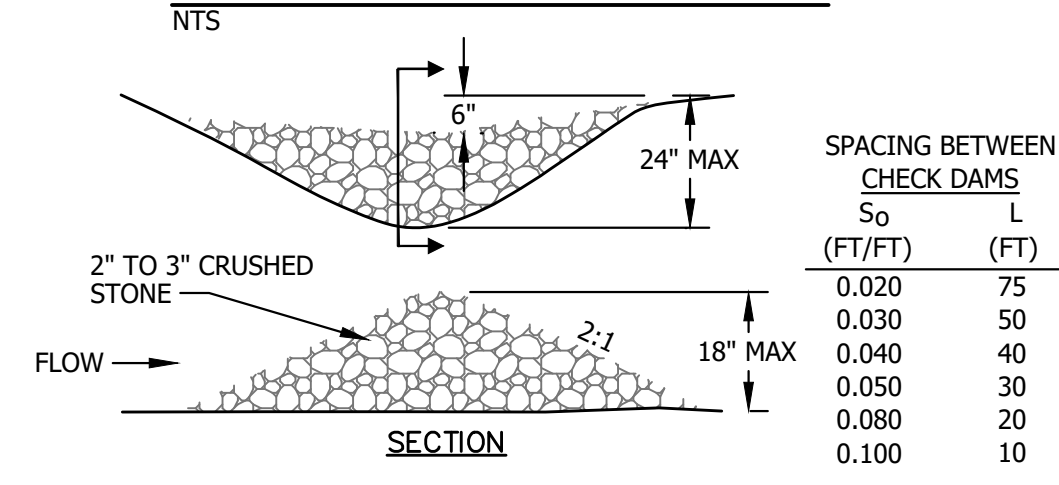
NOTE: CONTRACTORS OPTION TO USE SEDIMENT BARRIER OR SILT FENCE FOR SLOPE PROTECTION.

## OVERLAP JOINTS

## SURFACE DRAINAGE SEDIMENT CONTROL



## CATCH BASIN PROTECTION



## STONE CHECK DAM

REV.	BY	DATE	STATUS
DPD	12/2020		REVISED PER STAFF COMMENTS
DPD	10/2020		ISSUED FOR TOWN AND MEDEP REVIEW

### CONSTRUCTION AGGREGATE INC.

### VILLAGE CENTER ESTATES, PHASE 2

### NORTH YARMOUTH, MAINE

DESIGN BY: JTR  
DRAWN BY: SJM  
DATE: 1/2020  
CHECKED BY: BDP  
LMN: NONE  
CTB: SME-STD

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

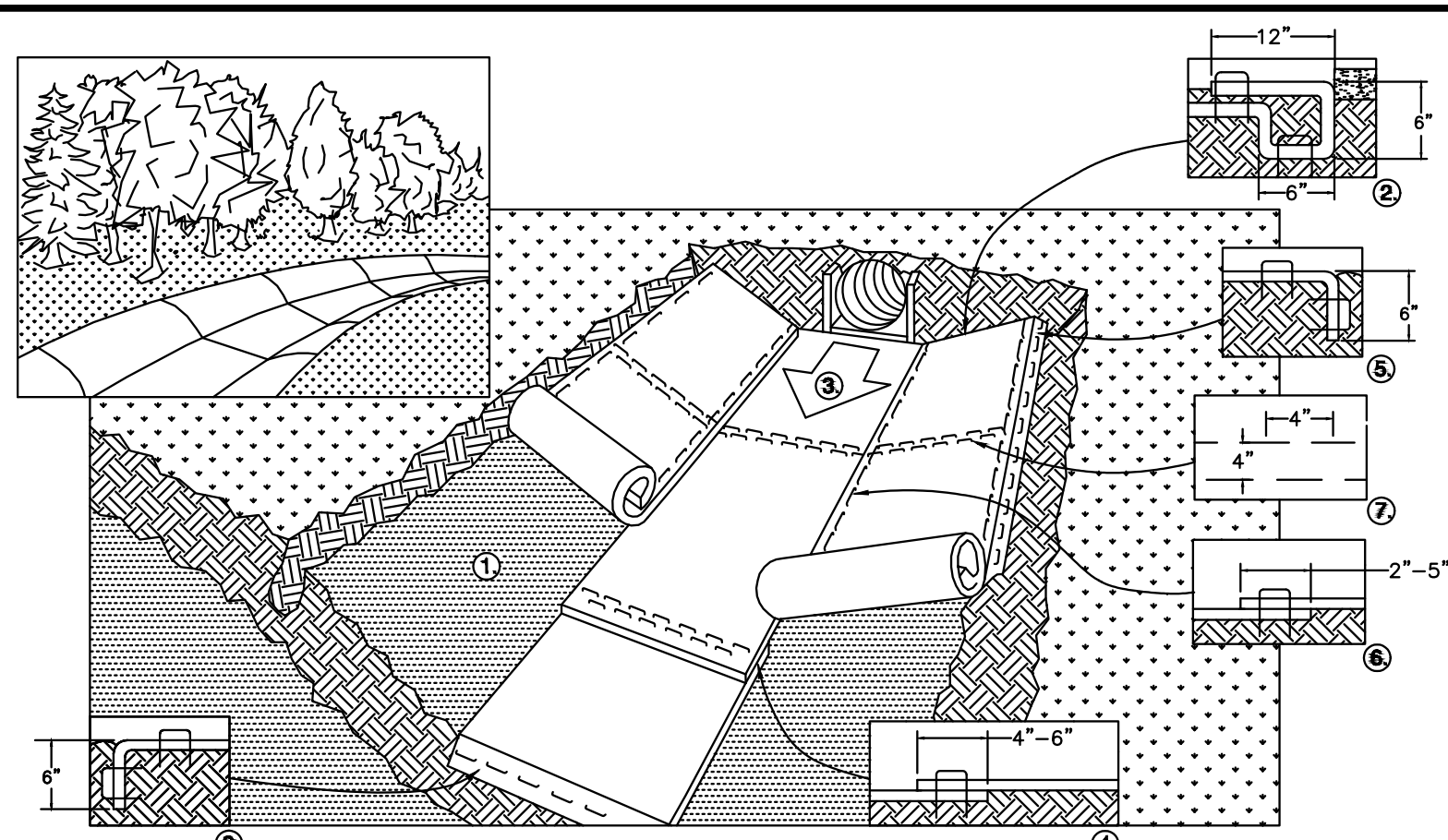
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
Phone 207.829.5016 • Fax 207.829.5692 • smemaine.com

JOB NO. 18295.00

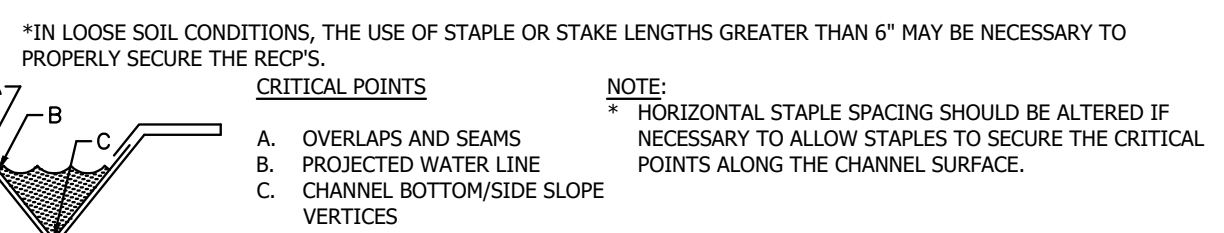
DWG FILE DETAILS

C-300



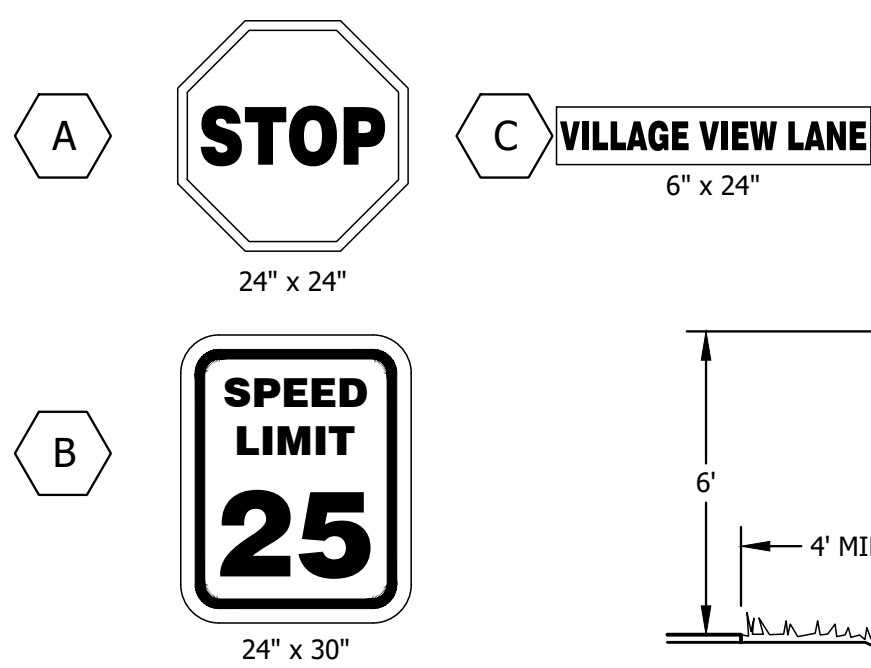


1. PREPARE BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS 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 RECPS BACK OVER SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL CENTER RECPS IN THE DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS 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 RECPS 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 RECPS.
5. FULL LENGTH EDGE OF RECPS 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 RECPS MUST BE OVERLAPPED APPROXIMATELY 2" TO 5" (DEPENDING ON RECPS 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 RECPS 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.



### CHANNEL INSTALLATION

NTS

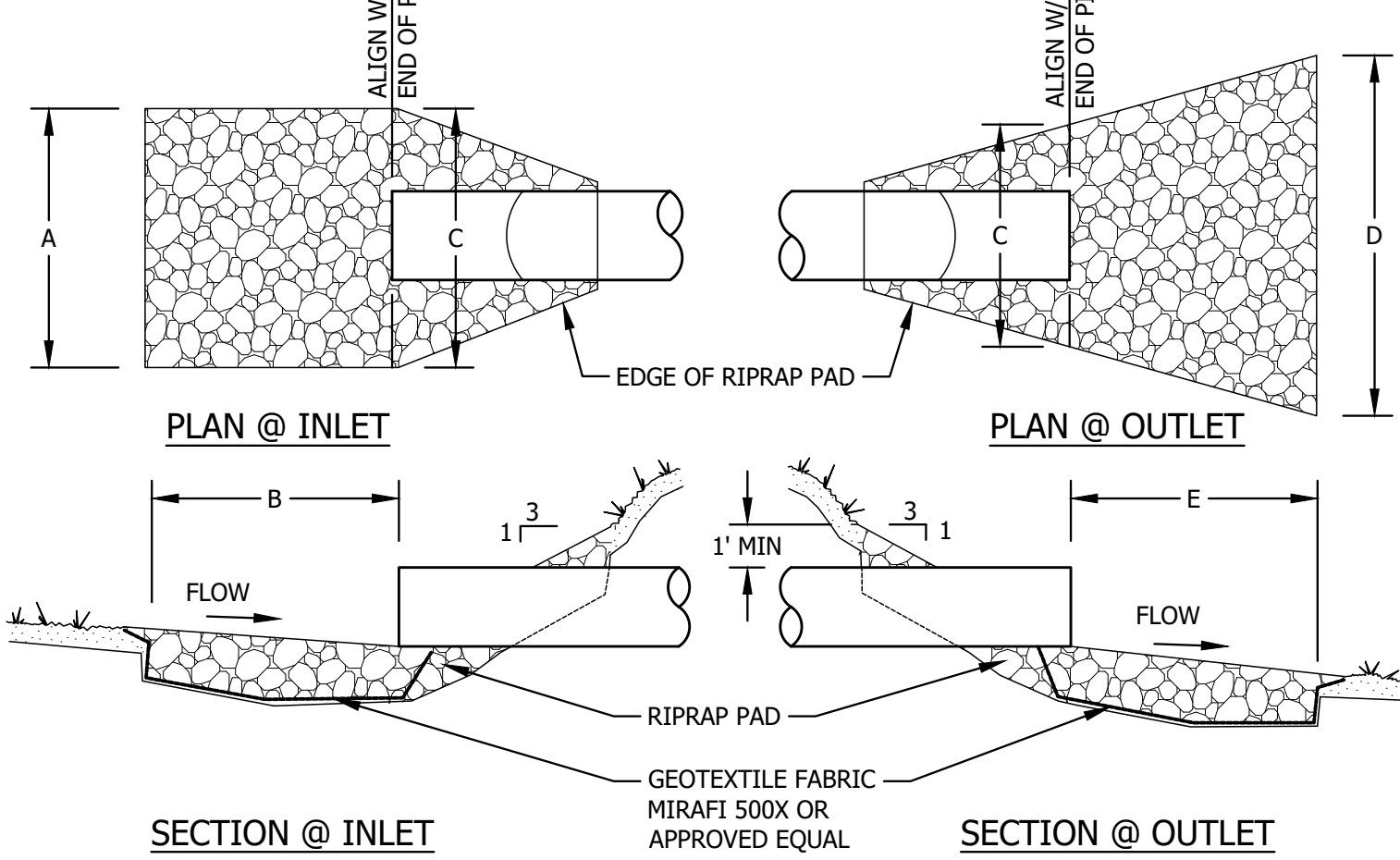


### NOTES:

1. SIGNS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES REVISION OF DECEMBER 2002, SECTION 645.
2. ALL PERMANENT SIGNS ON THIS PROJECT ARE CLASSIFIED UNDER SECTION 645.03(b) TYPE 1 REGULATORY WARNING AND ROUTE MARKER ASSEMBLY SIGNS.
3. SIGN MATERIAL SHALL BE AS SPECIFIED IN SECTION 719 OF THE MDOT STANDARD SPECIFICATIONS.
4. POSTS SHALL BE METAL CHANNELS AS SPECIFIED IN SECTION 720.08. ALTERNATE POSTS MAY BE 4"x6" WOOD AS SPECIFIED IN SECTION 720.12, AS APPROVED BY ENGINEER.
5. POSTS IN THE PUBLIC RIGHT-OF-WAY TO BE ON BREAKAWAY POSTS AS SPECIFIED IN SECTION 720 OF THE MDOT STANDARD SPECIFICATIONS.

### ROAD SIGN LEGEND

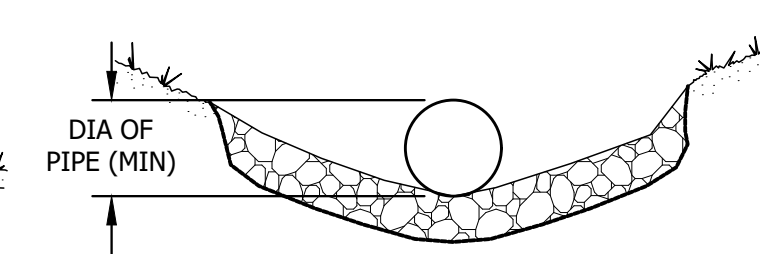
NTS



### RIPRAP INLET/OUTLET PROTECTION

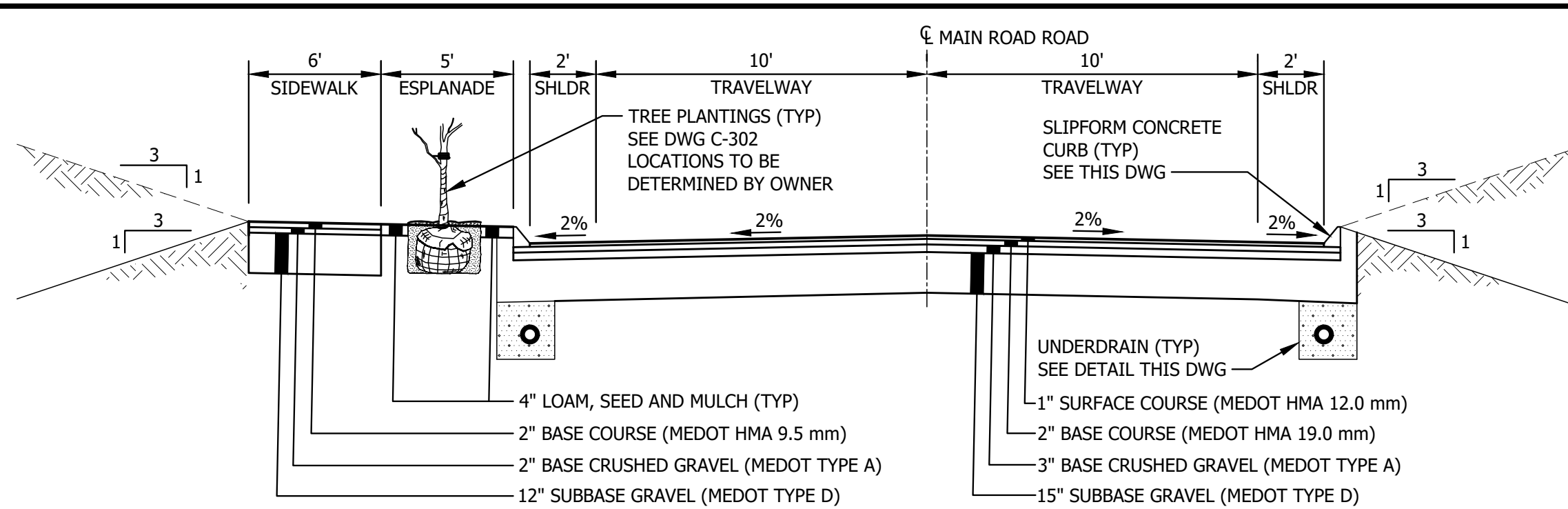
RIPRAP PAD MUST BE INSTALLED WITHIN 48 HOURS OF INSTALLING NEW PIPE OR CULVERT.

PIPE	A	B	C	D	E	RIPRAP THICKNESS	D <sub>50</sub>
12"~	3 FT.	2 FT.	3 FT.	9 FT.	8 FT.	12"	5"
15"~	3.75 FT.	2.5 FT.	3.75 FT.	11.5 FT.	10 FT.	18"	8"
18"~	4.5 FT.	3 FT.	4.5 FT.	11.5 FT.	10 FT.	18"	8"
36"~	9 FT.	6 FT.	9 FT.	12 FT.	30 FT.	28"	14"



### CROSS SECTION

NTS

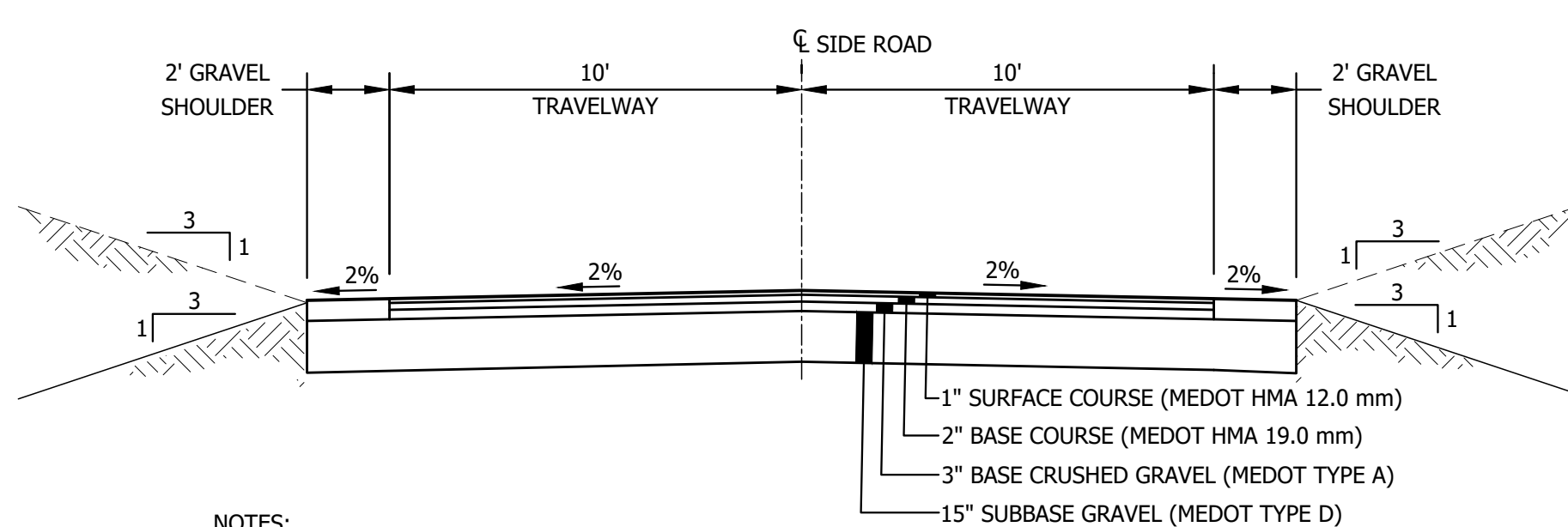


### NOTES:

1. HMA = HOT MIX ASPHALT.
2. LOAM ALL SIDE SLOPES WITH 4" OF LOAM. SEED AS SOON AS POSSIBLE. PROTECT SIDE SLOPES FROM EROSION AS NEEDED OR AS DIRECTED BY ENGINEER.
3. BACKSLOPES TO BE 3:1 TO MATCH EXISTING GRADES IN BOTH CUTS AND FILLS UNLESS OTHERWISE INDICATED.
4. BACKSLOPE TO BE 2:1 IN ROCK EXCAVATION PROVIDED ADEQUATE SIGHT DISTANCE IS MAINTAINED.

### MAIN ROAD - TYPICAL ROAD SECTION

NTS

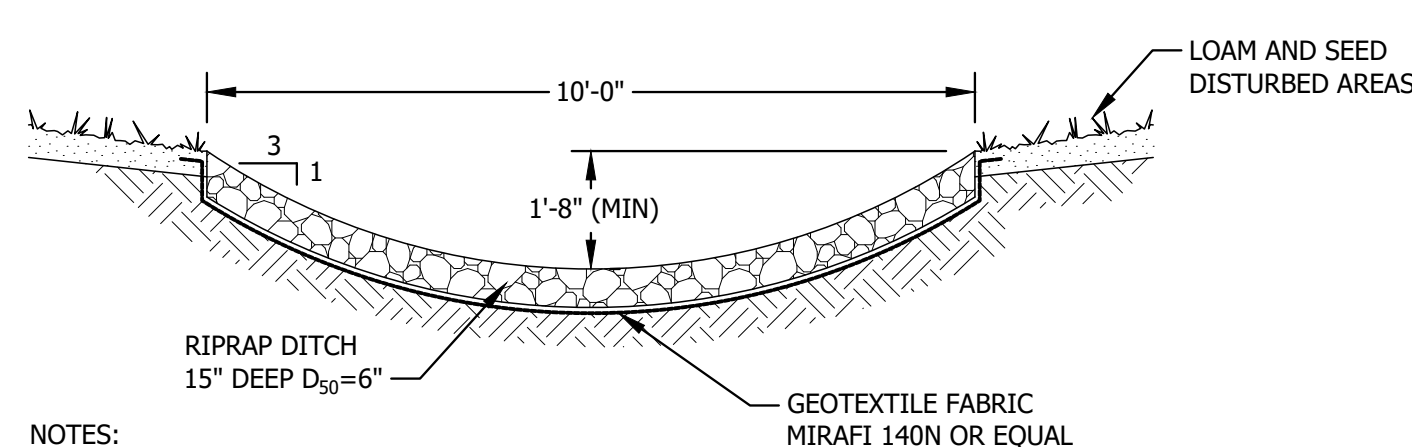


### NOTES:

1. HMA = HOT MIX ASPHALT.
2. LOAM ALL SIDE SLOPES WITH 4" OF LOAM. SEED AS SOON AS POSSIBLE. PROTECT SIDE SLOPES FROM EROSION AS NEEDED OR AS DIRECTED BY ENGINEER.
3. BACKSLOPES TO BE 3:1 TO MATCH EXISTING GRADES IN BOTH CUTS AND FILLS UNLESS OTHERWISE INDICATED.
4. BACKSLOPE TO BE 2:1 IN ROCK EXCAVATION PROVIDED ADEQUATE SIGHT DISTANCE IS MAINTAINED.

### SIDE ROAD - TYPICAL ROAD SECTION

NTS

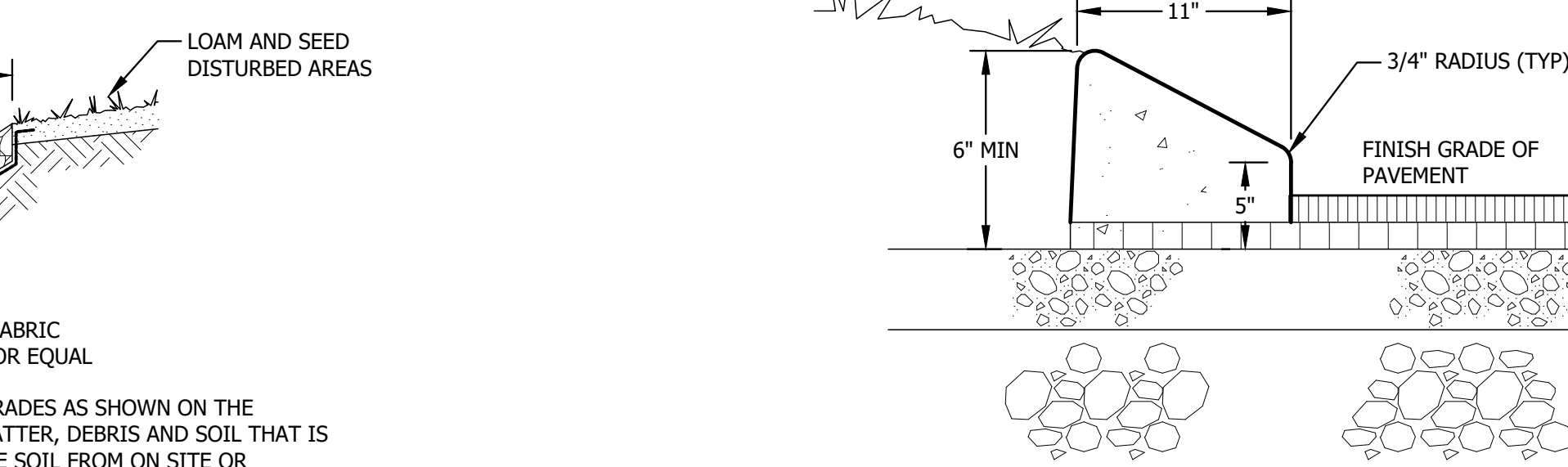


### NOTES:

1. SUBGRADE PREPARATION: SHAPE THE SUBGRADE TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS AND AS SHOWN ON THE DETAILS. REMOVE ALL ORGANIC MATTER, DEBRIS AND SOIL THAT IS TOO WET TO SUPPORT RIPRAP. IF FILL IS REQUIRED PROVIDE SUITABLE SOIL FROM ON SITE OR COMMON BORROW (MDOT 703.18) COMPACTED TO A DENSITY APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED SOIL BUT NOT LESS THAN 92% (ASTM D1557).
2. GEOTEXTILE FABRIC: PLACE AND ANCHOR GEOTEXTILE (FILTER FABRIC) IMMEDIATELY AFTER SUBGRADE PREPARATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. STONE PLACEMENT: PLACE RIPRAP IMMEDIATELY AFTER PLACING GEOTEXTILE FABRIC. PLACE RIPRAP SO THAT IT PRODUCES A DENSE, WELL-GRADED MASS OF STONE WITH A MINIMUM OF VOIDS
4. MAINTENANCE: INSPECT RIPRAP FOLLOWING SIGNIFICANT RAINFALL EVENTS (3 INCHES OR MORE IN 24 HOURS) AND AFTER THE SPRING THAW. REPAIR DAMAGED AREAS IMMEDIATELY.
5. RIPRAP: SOUND DURABLE ROCK WHICH WILL NOT DISINTEGRATE BY EXPOSURE TO WATER OR WEATHER. EITHER FIELD STONE OR ROUGH, UNEVEN QUARRY STONE MAY BE USED. STONES SHALL BE ANGULAR AND AS NEARLY RECTANGULAR IN CROSS-SECTION AS PRACTICABLE. DO NOT USE ROUNDED BOULDERS OR COBBLES. USE A WELL GRADED MIXTURE OF STONE SIZES WITH 50 PERCENT OF THE MIXTURE BY WEIGHT BEING LARGER THAN THE D SIZE SPECIFIED AND 50 PERCENT SMALLER.

### RIPRAP CHANNEL PROTECTION

NTS

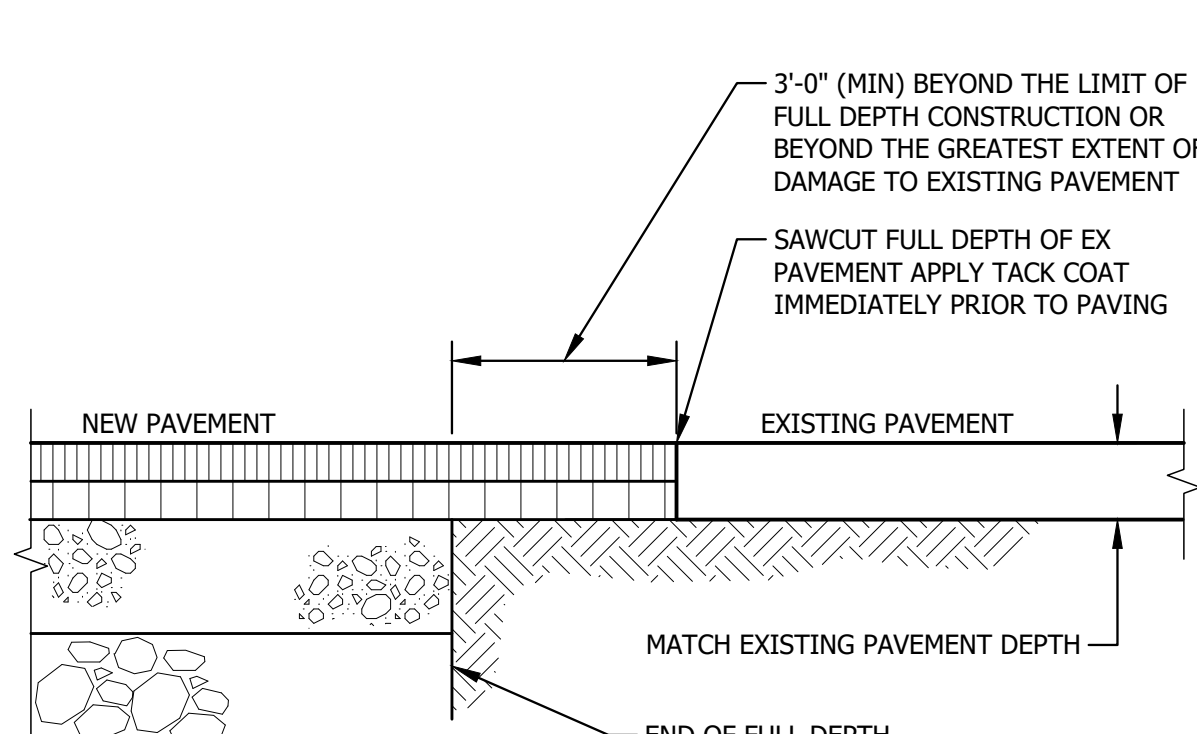


### CONCRETE NOTES:

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: SALT GUARD OR EQUAL WATER BASED SEALER

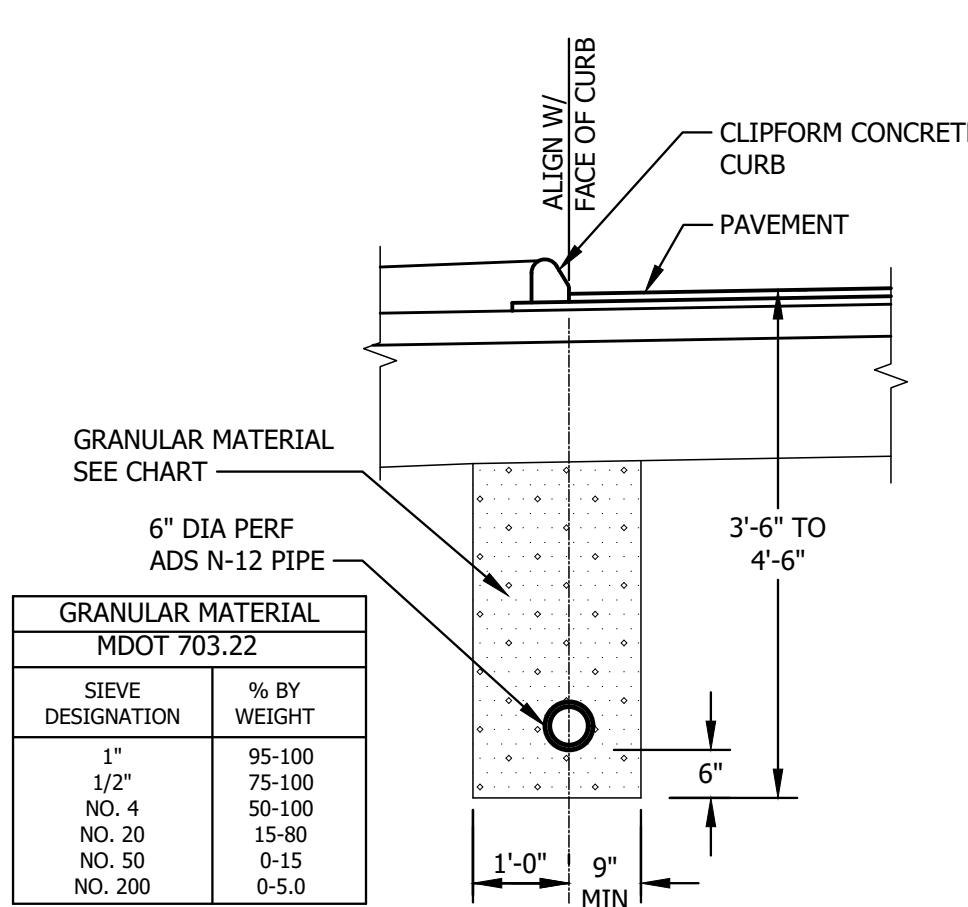
### SLIPFORM CONCRETE CURB

NTS



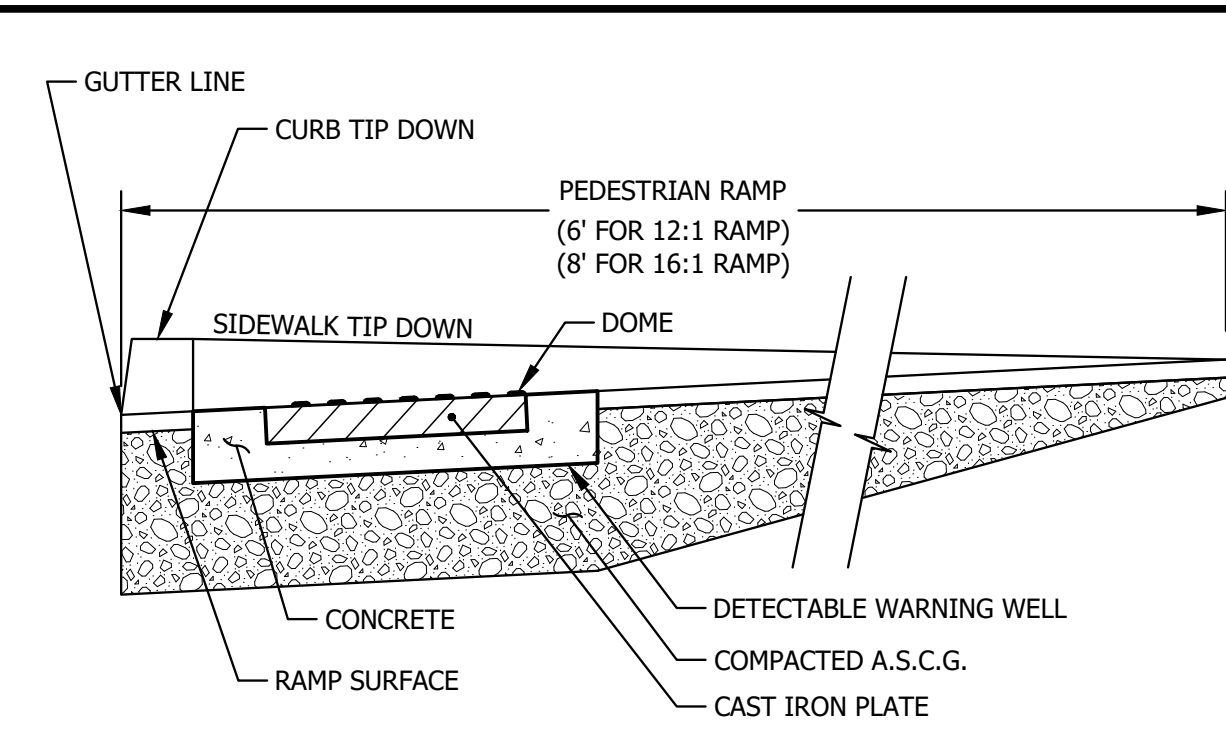
### PAVEMENT CUTTING AND MATCHING

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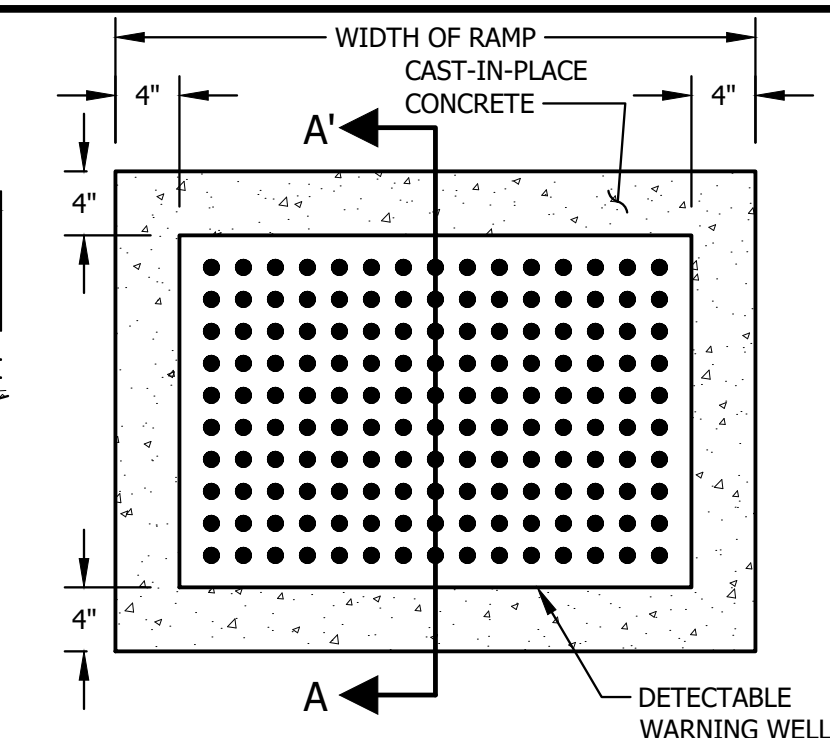


### UNDERDRAIN TRENCH

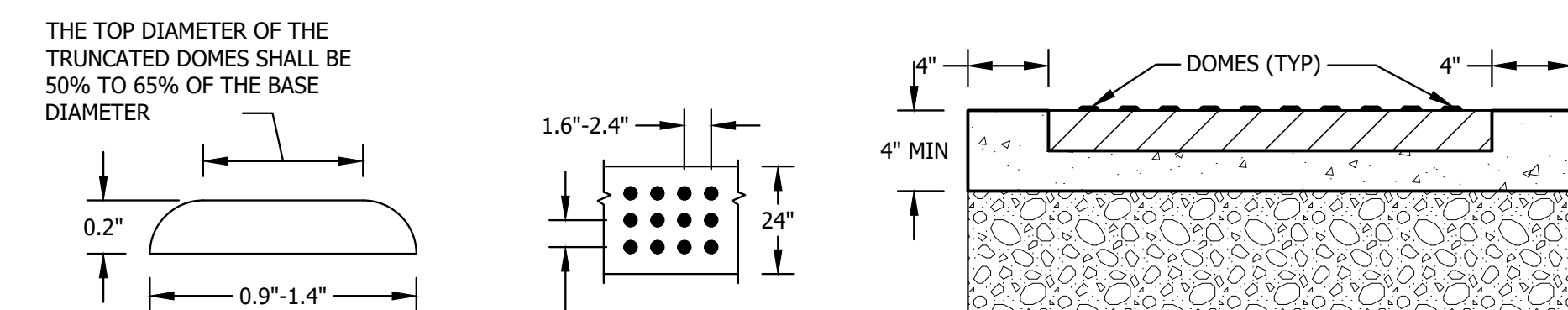
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### SIDE SECTION VIEW OF DETECTABLE WARNING, WELL, CURB AND GUTTER

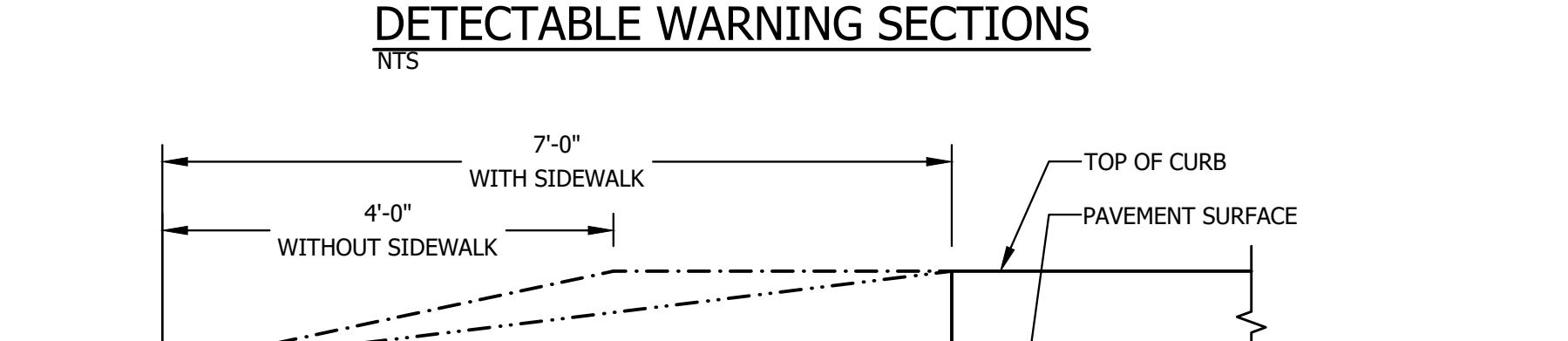


### PLAN VIEW OF DETECTABLE WARNING AND WELL



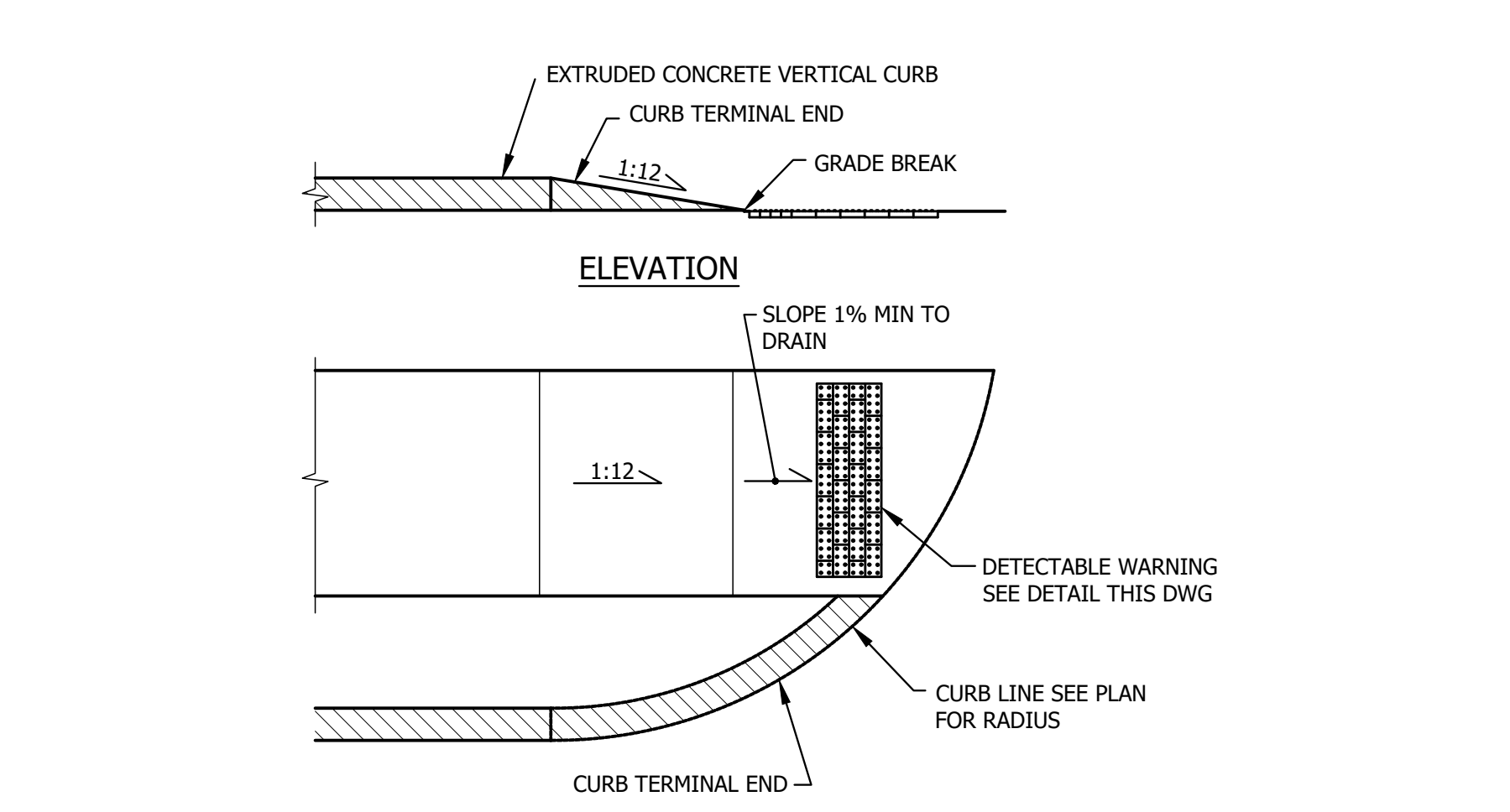
### DOMES AND DETECTABLE WARNING DETAILS

NTS



### DETECTABLE WARNING SECTIONS

NTS



### ADA RAMP WITH DETECTABLE WARNING

NTS

REV.	BY	DATE	STATUS
DPD	12/2020		REVISED PER STAFF COMMENTS
DPD	10/2020		ISSUED FOR TOWN AND MEDEP REVIEW

**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

**SECTIONS AND DETAILS**

**SME**  
SEVEE & MAHER  
ENGINEERS

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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

DESIGN BY: JTR  
DRAWN BY: SJM  
DATE: 1/2020  
CHECKED BY: BDP  
LMN: NONE  
CTB: SME-STD

JOB NO. 18295.00 DWG FILE DETAILS **C-301**



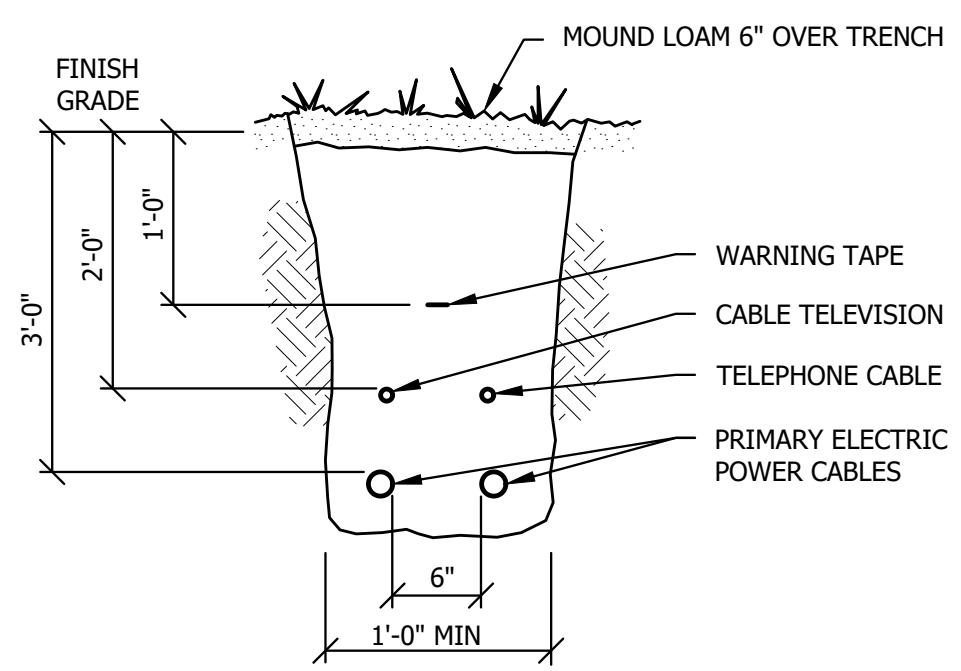
CONSTRUCTION	USE
	<b>BITUMINOUS</b> ROADS
	<b>BITUMINOUS</b> SIDEWALKS
	<b>GRASS</b> GRASSED ISLAND ALL DISTURBED AREAS
	<b>GRAVEL</b> PARKING AREA

NOTES:  
1. HMA = HOT MIX ASPHALT.  
MDOT = MAINE DEPARTMENT OF TRANSPORTATION.

2. ALL COURSE THICKNESSES AFTER FINAL COMPACTION.

**SCHEDULE OF SURFACE FINISHES**

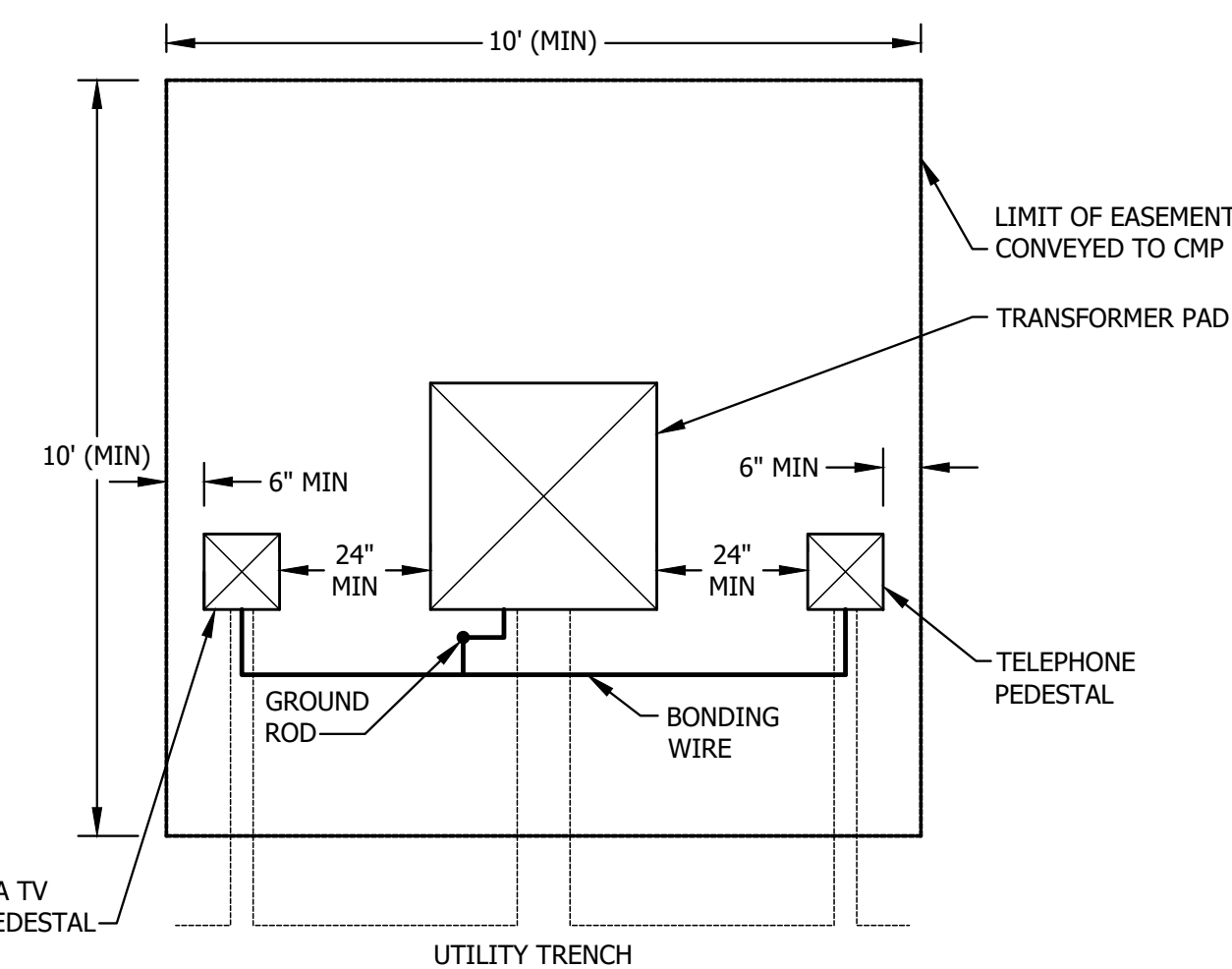
NTS



NOTES:  
1. SEE CMP CO. STANDARD TRENCH FOR BACKFILL MATERIAL REQUIREMENTS.  
2. DIRECT BURY CABLES EXCEPT UNDER PAVED AREAS. PROVIDE SCH. 40 PVC CONDUIT UNDER PAVED AREAS, EXTEND CONDUIT 5' BEYOND EDGE OF PAVEMENT.

**UNDERGROUND UTILITY TRENCH SECTION**

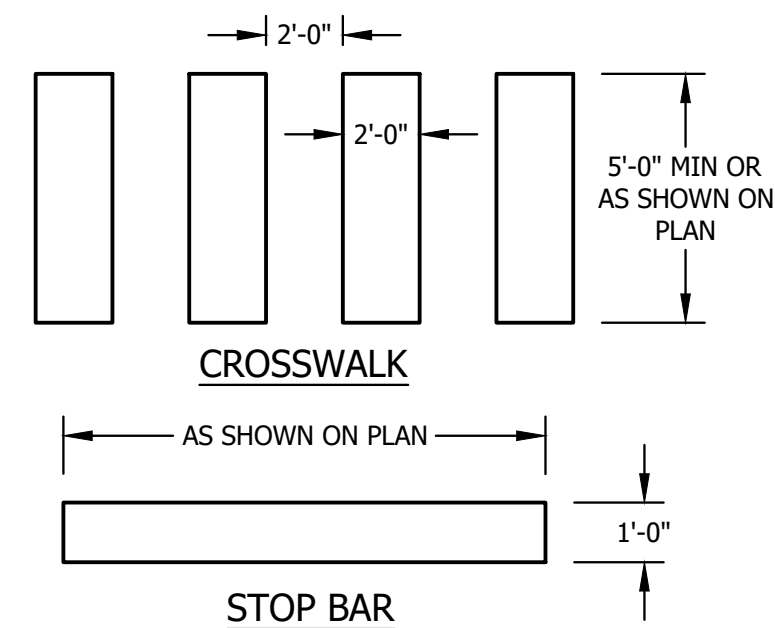
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NOTE: CONCRETE PAD AND INSTALLATION PER CMP STANDARDS

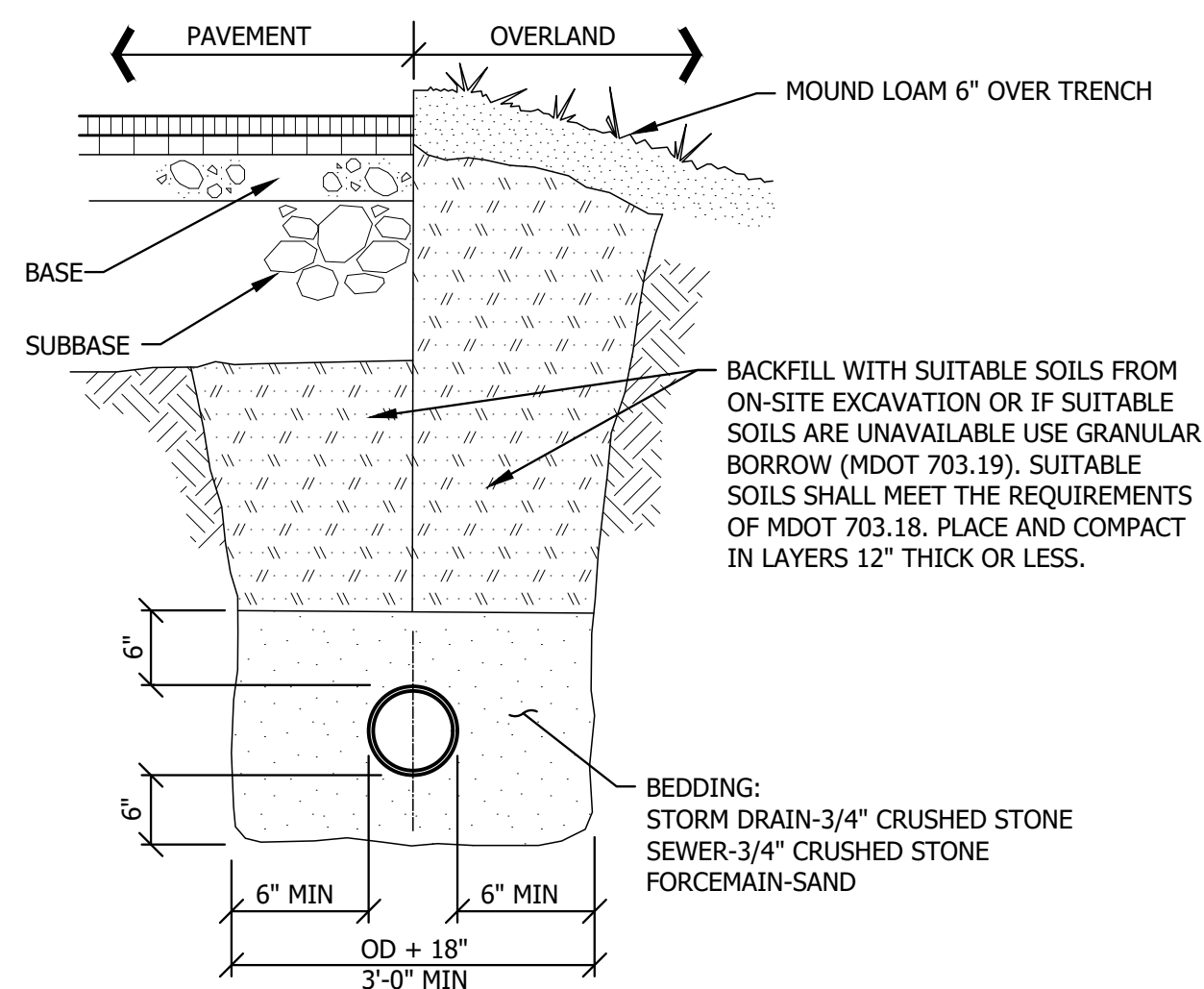
**TYPICAL TRANSFORMER EASEMENT LAYOUT**

NTS



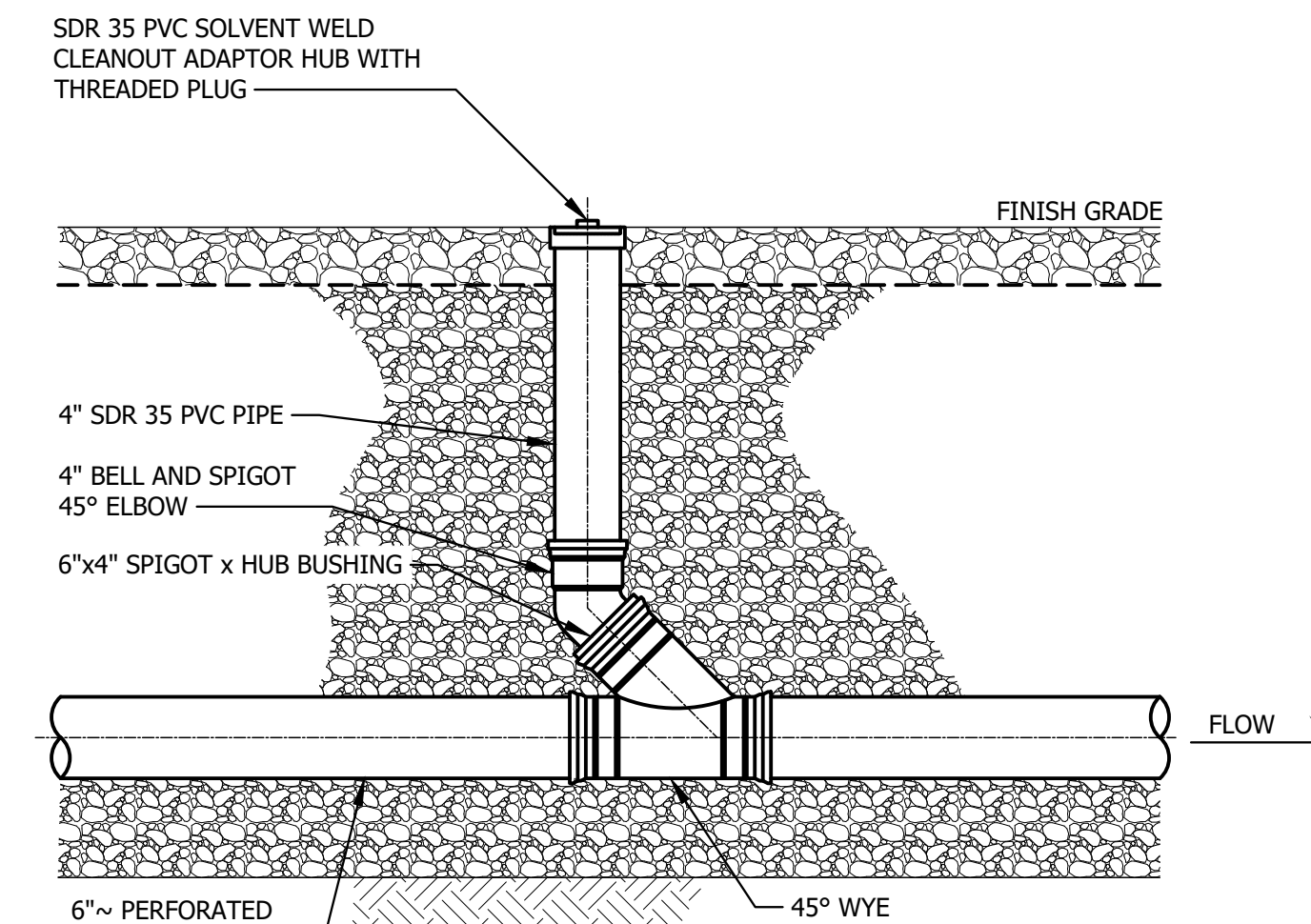
**PAVEMENT STRIPING**

NTS



**TYPICAL TRENCH SECTION**

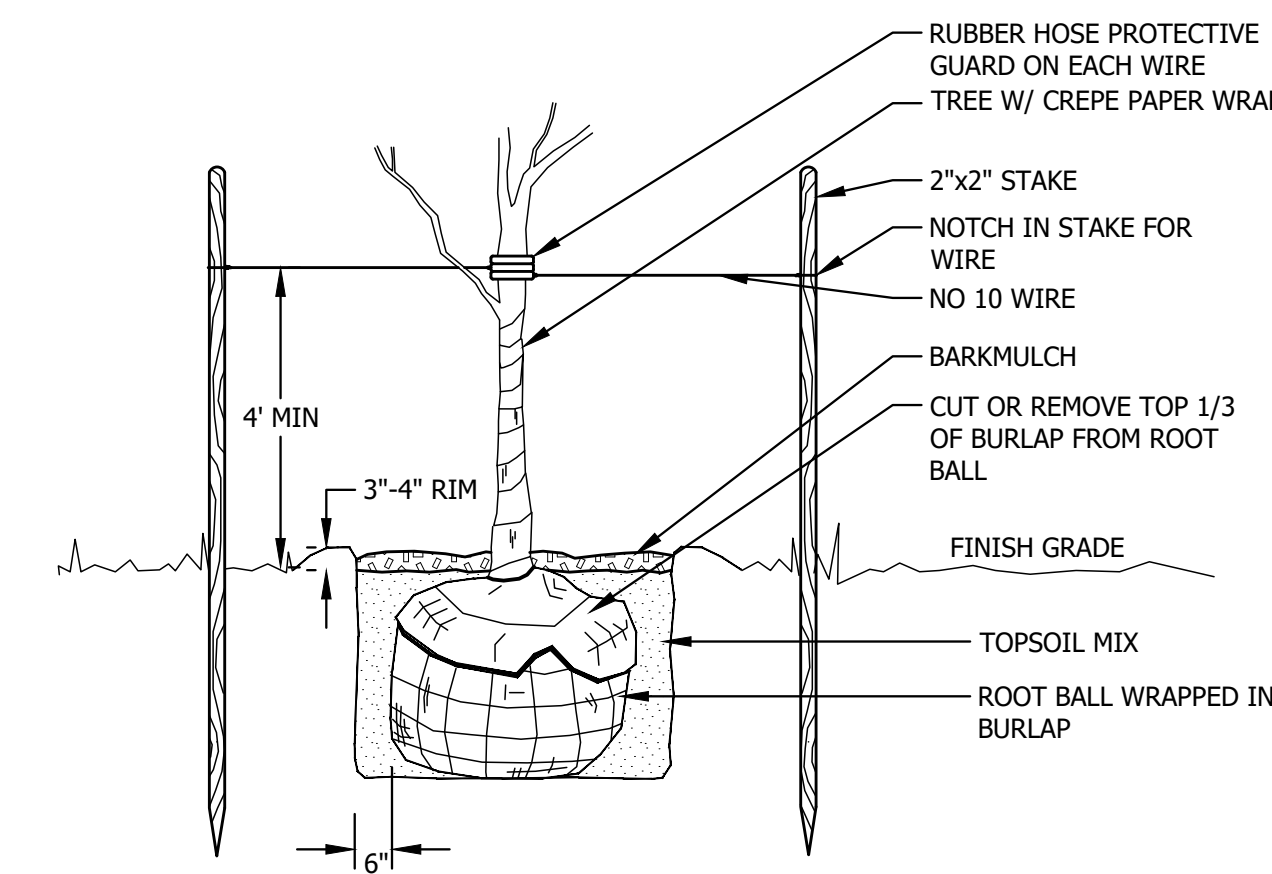
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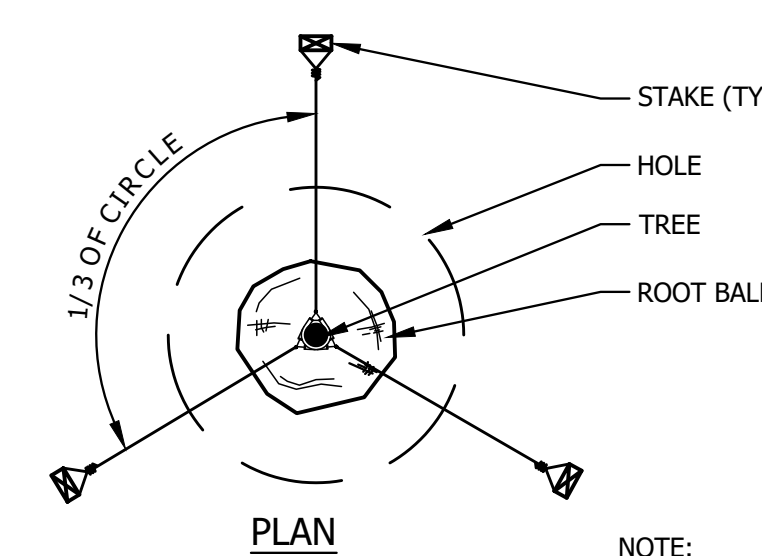
NOTES:  
1. PLACE CAP @ GRADE OR 6\"/>

**TYPICAL CLEANOUT**

NTS

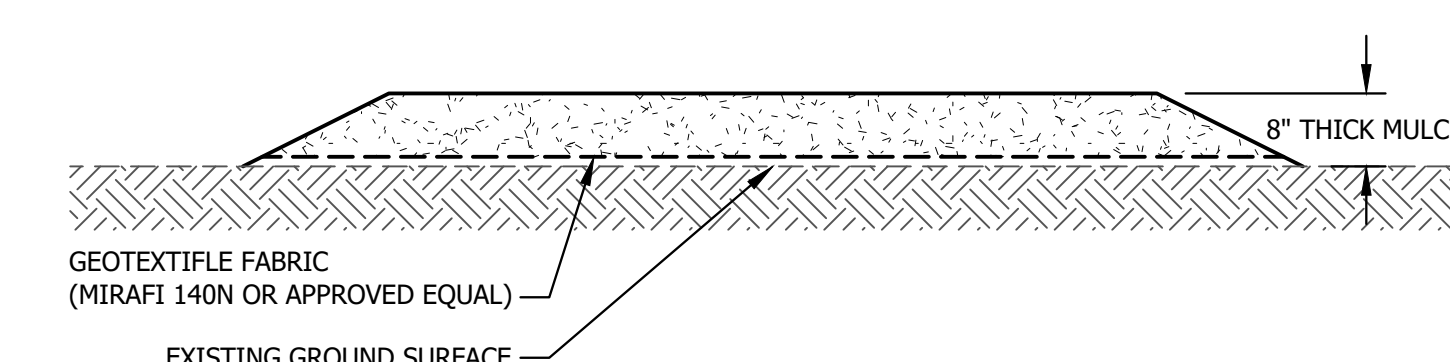


**SECTION**



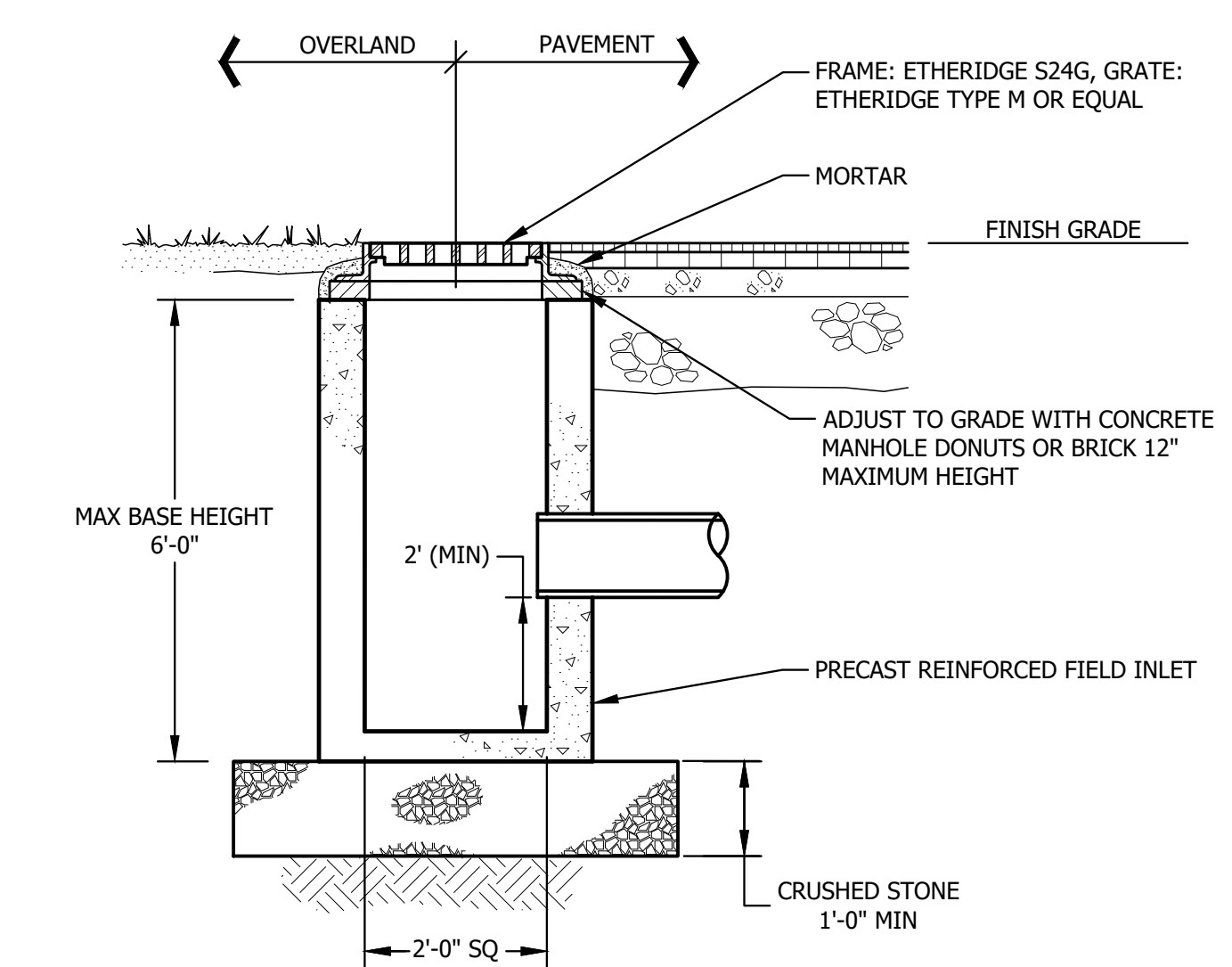
**TREE PLANTING**

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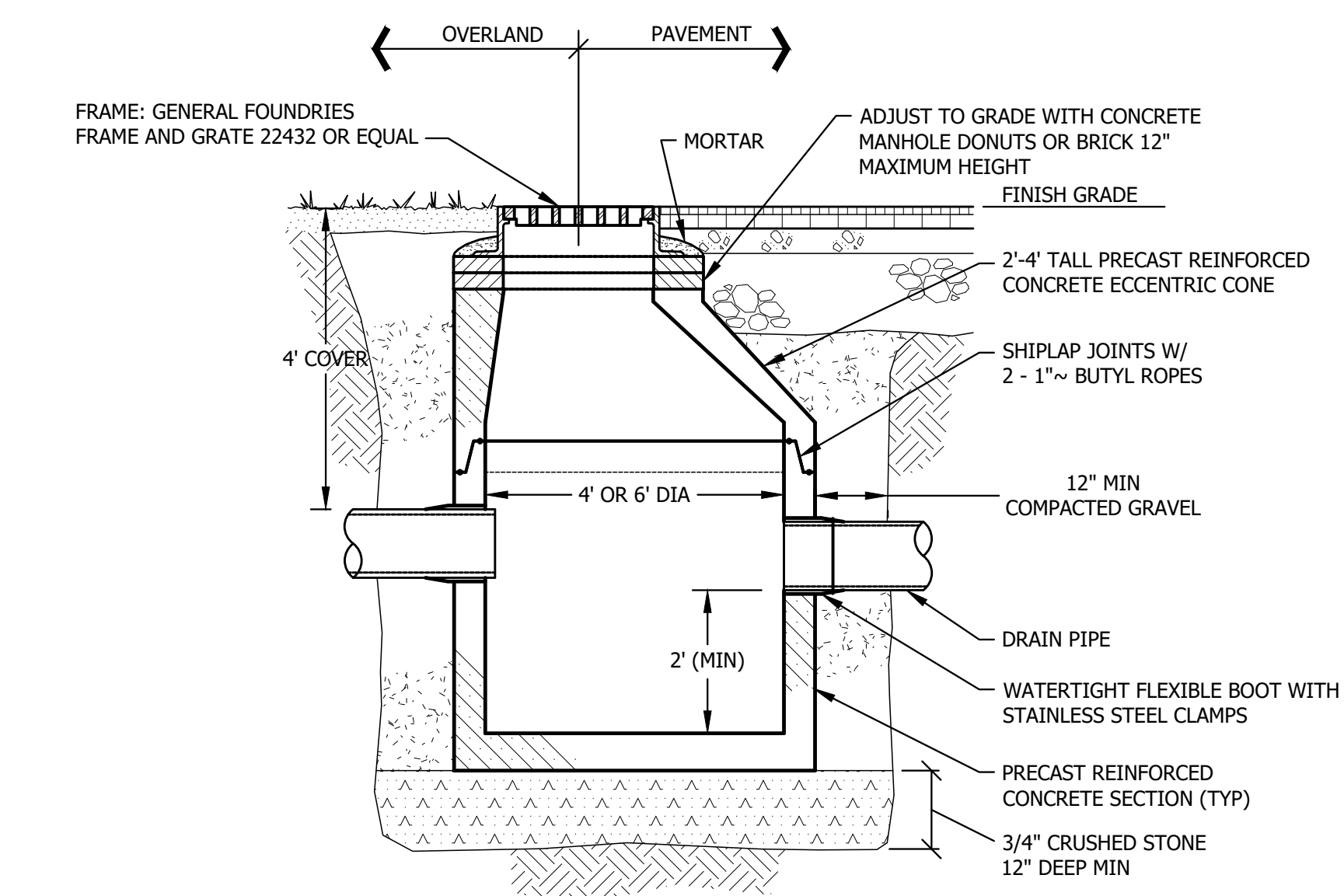
**FOOTPATH SECTION**

NTS



**FIELD INLET DETAIL**

NTS



**CATCH BASIN**

NTS

CATCH BASIN AND FIELD INLET NOTES:  
THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:  
PRODUCT DATA: SUBMIT PRODUCT DATA FOR ALL MATERIALS USED ON THE JOB FOR REVIEW FOR LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN CONTRACT DOCUMENTS.  
SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURE SHALL PROVIDE ANTI-FLOTATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOTATION.

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VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

**SECTIONS AND DETAILS**

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DESIGN BY: JTR  
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JOB NO. 18295.00

DWG FILE DETAILS

**C-302**

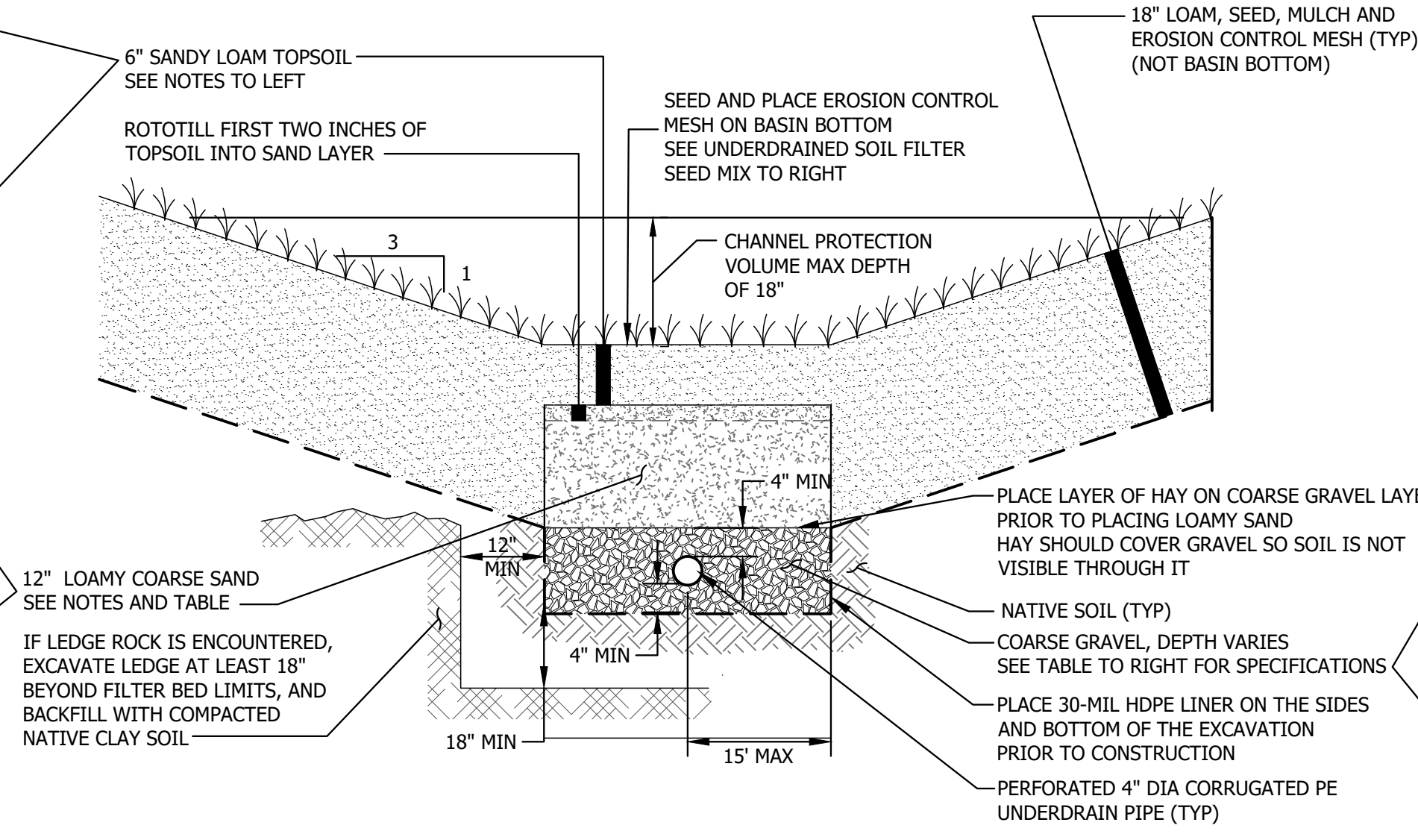


THE SANDY LOAM TOPSOIL SHALL BE TESTED AT A SOIL TESTING LAB AND:

- MATCH THE USDA SANDY LOAM TOPSOIL CLASSIFICATION
- HAVE 5-8% HUMIFIED ORGANIC MATTER
- HAVE 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.

SOIL FOR 12" LOAMY COARSE SAND LAYER (MEDOT #703.01)	
SIEVE SIZE	% BY WEIGHT
#10	85-100
#20	70-100
#60	15-40
#200	8-15
#200 (CLAY SIZE)	< 2.0



UNDERDRAINED SOIL FILTER SEED MIX	
Name	LBS/ACRE
Creeping Red Fescue	20
Tall Fescue	20
Birdsfoot trefoil	8
Total	48

COARSE GRAVEL MEDOT SPECIFICATIONS FOR UNDERDRAINS (MEDOT #703.22)	
SIEVE SIZE	% PASSING BY WEIGHT
UNDERDRAIN TYPE B	
1"	95-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

**CONSTRUCTION OVERSIGHT:**

**CONSTRUCTION SEQUENCE:** THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETE.

**COMPACTION OF SOIL FILTER:** FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR.

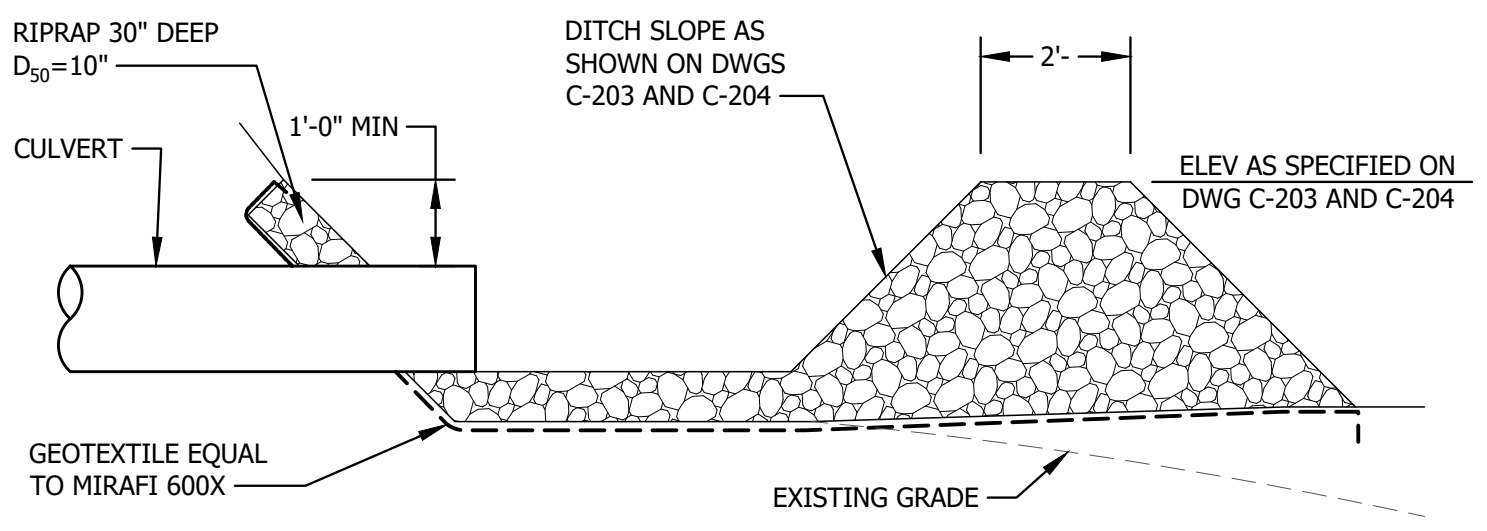
**CONSTRUCTION OVERSIGHT:** INSPECTION BY A PROFESSIONAL ENGINEER FAMILIAR WITH CONSTRUCTION REQUIREMENTS OF OF UNDERDRAINED SOIL FILTERS WILL OCCUR AT A MINIMUM:

- AFTER THE 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 SEEDED.
- AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
- ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.
- WITHIN 30 DAYS OF COMPLETION OF THE UNDERDRAINED FILTER BASIN, THE APPLICANT MUST SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS TAKEN, AND THE DATES OF EACH INSPECTION TO THE BUREAU OF LAND RESOURCES FOR REVIEW.

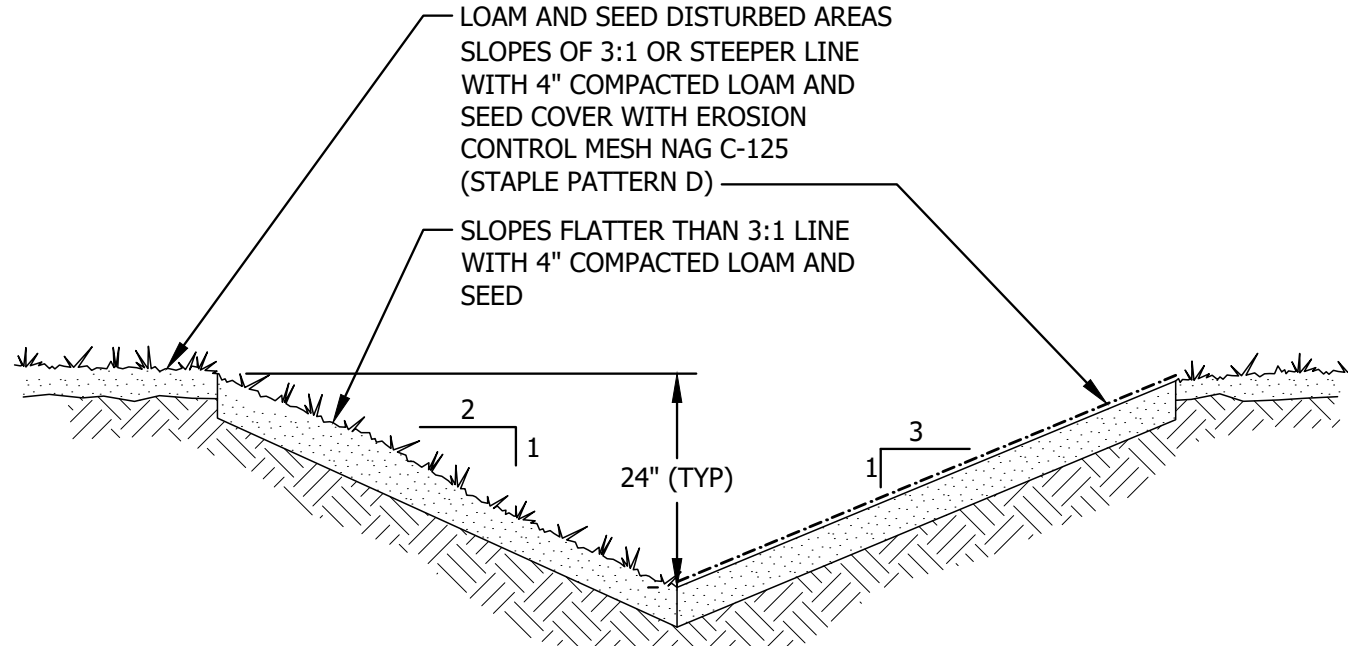
**TESTING AND SUBMITTALS:** THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:

- SELECT SAMPLES OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
- PERFORM A SIEVE ANALYSIS CONFORMING TO ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL.

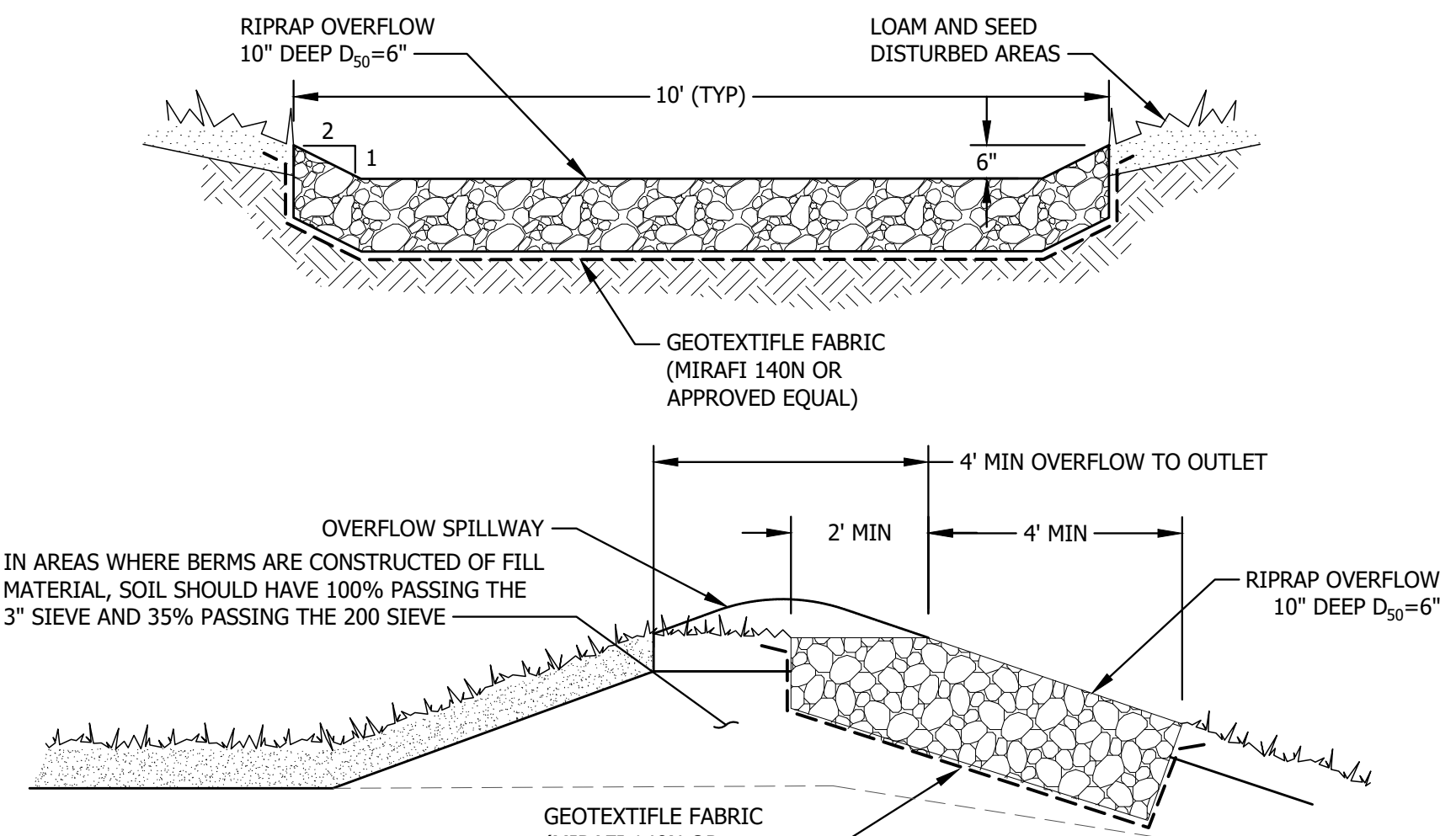
**TYPICAL UNDERDRAINED SOIL FILTER**



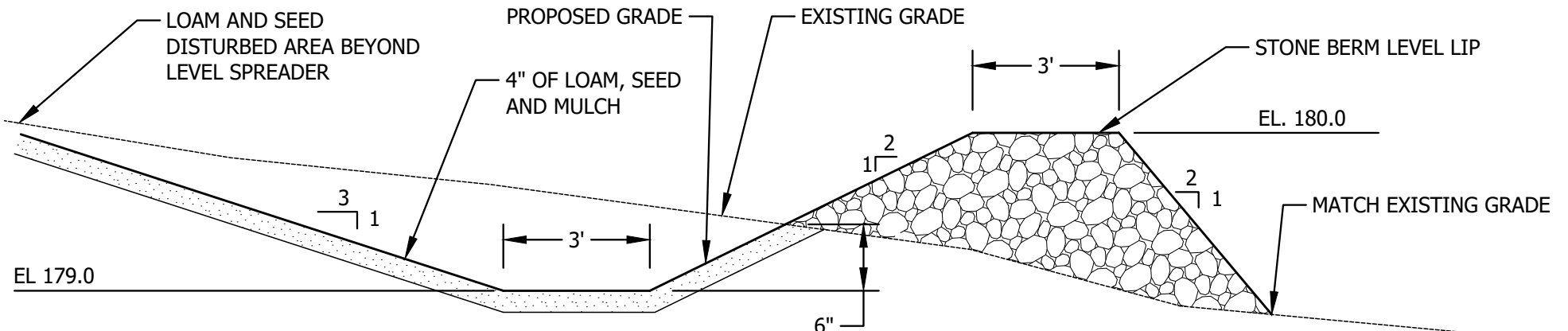
**RIPRAP FOREBAY**  
NTS



**VEGETATED SWALE**  
NTS



**OVERFLOW SPILLWAY SECTIONS**  
NTS

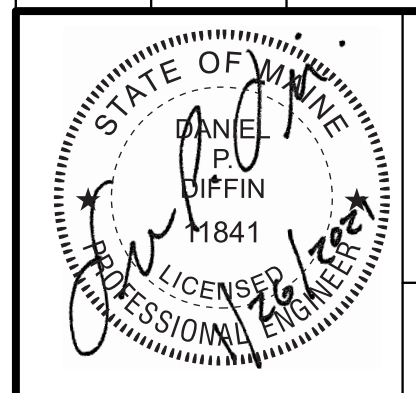


BERM STONE SIZE	
SIEVE	% BY WEIGHT PASSING SIEVE
12 in	100
6 in	84-100
3 in	68-83
1 in	42-55
No. 4	8-12

- NOTES:**
1. CONSTRUCT LEVEL LIP AND SPREADER ON ZERO PERCENT GRADE.
  2. DO NOT CONSTRUCT LEVEL SPREADER ON FILL.
  3. STORM RUNOFF CONVERTED TO SHEET FLOW SHALL OUTLET ONTO STABILIZED AREA. WATER SHALL NOT BE CHANNELIZED IMMEDIATELY BELOW POINT OF DISCHARGE.

**LEVEL SPREADER**  
NTS

REV.	BY	DATE	STATUS
	DPD	12/2020	REVISED PER STAFF COMMENTS
	DPD	10/2020	ISSUED FOR TOWN AND MEDEP REVIEW



**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

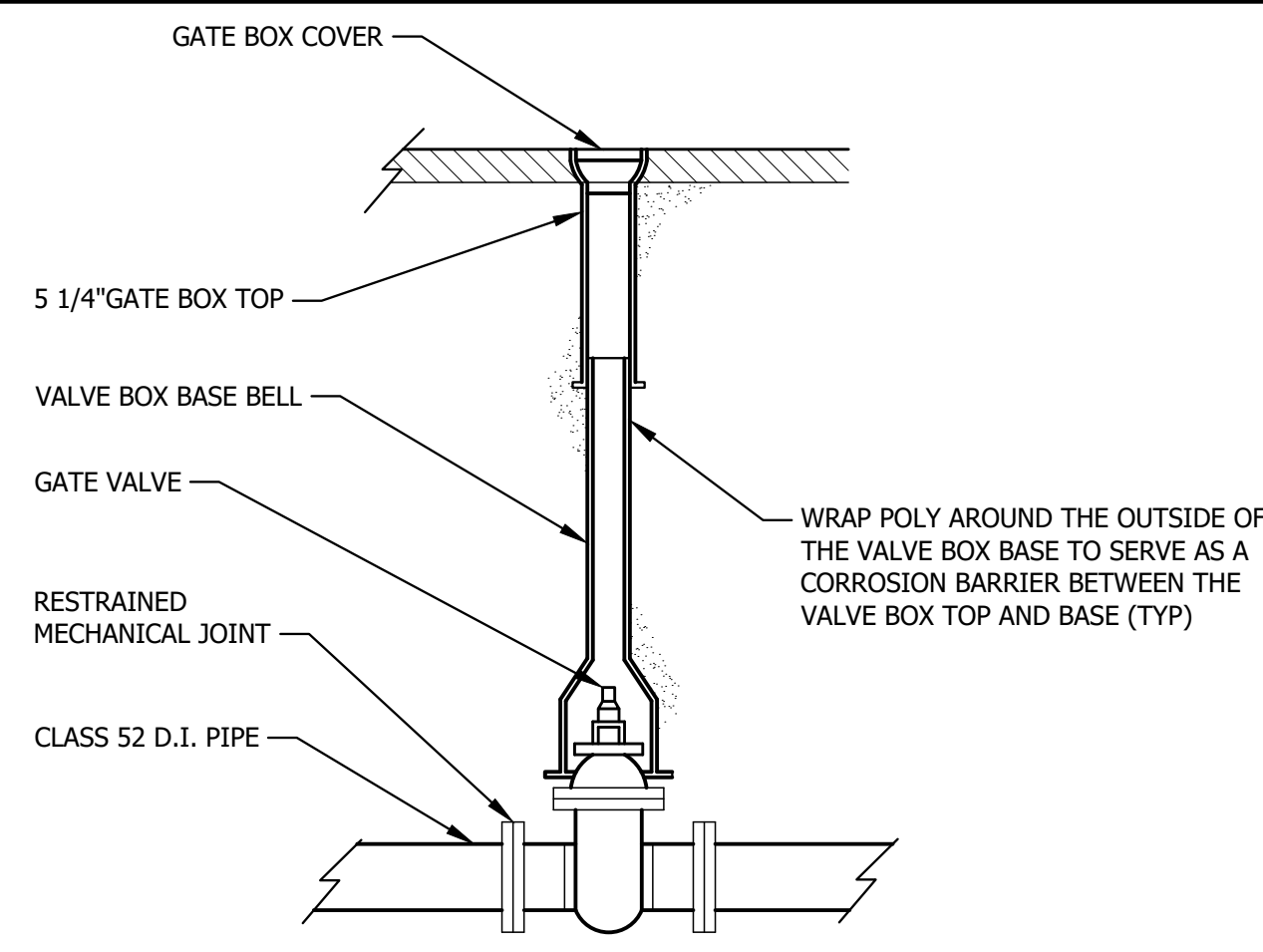
**SECTIONS AND DETAILS**

**SME**  
SEVEE & MAHER  
ENGINEERS  
ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE  
4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021  
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DESIGN BY: JTR  
DRAWN BY: SJM  
DATE: 1/2020  
CHECKED BY: BDP  
LMN: NONE  
CTB: SME-STD

JOB NO. 18295.00 DWG FILE DETAILS C-303

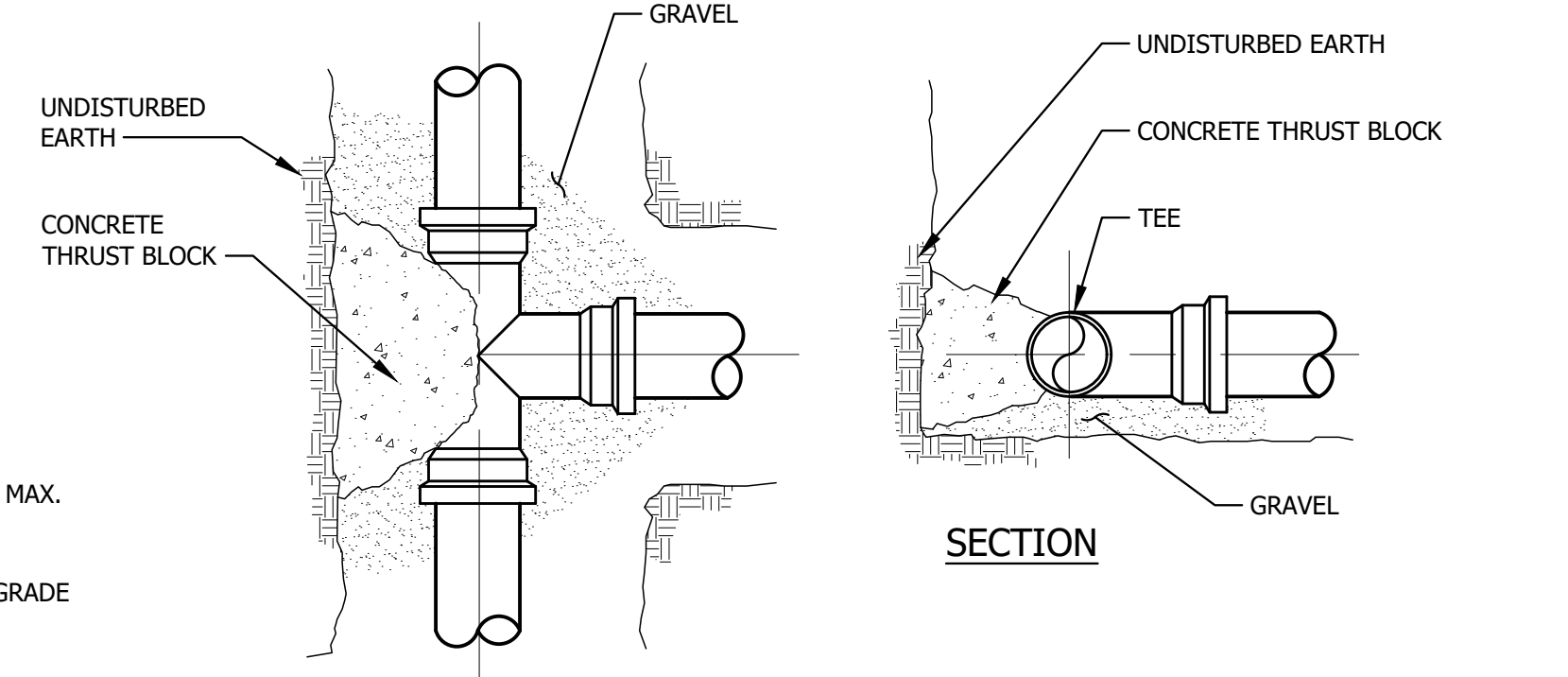




**GATE VALVE**  
NTS

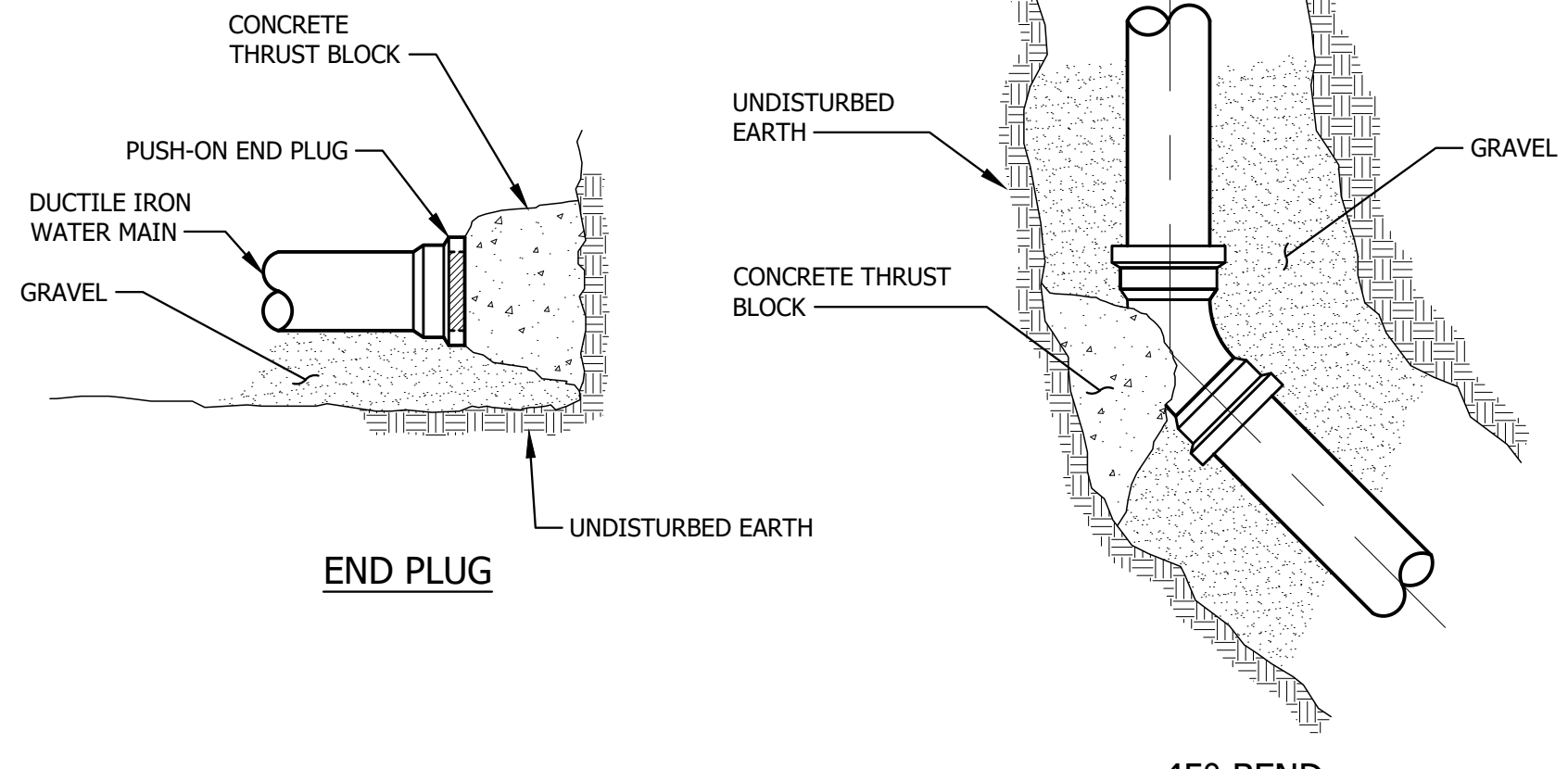
CONCRETE THRUST BLOCK SIZE REQUIREMENTS				
		SQ. FT. OF BEARING ON UNDISTURBED SOIL		
FITTINGS		90°BENDS	45°BENDS	TEES AND PLUGS
PIPE SIZE	6"	4.0	2.0	3.0
	8"	8.0	4.0	6.0
	12"	15	9	12
	16"	26	14	19
	20"	40	22	28

BASED ON SOIL BEARING PRESSURE OF 2000PSF AND 100PSI LINE PRESSURE. COMPACT COURSE TO FINE SANDS AND CLAYS REQUIRE ENGINEERED BLOCKS. ENGINEERED BLOCKS WILL TYPICALLY REQUIRE REINFORCING STEEL OF #5 AT 12".



**PLAN**

**SECTION**

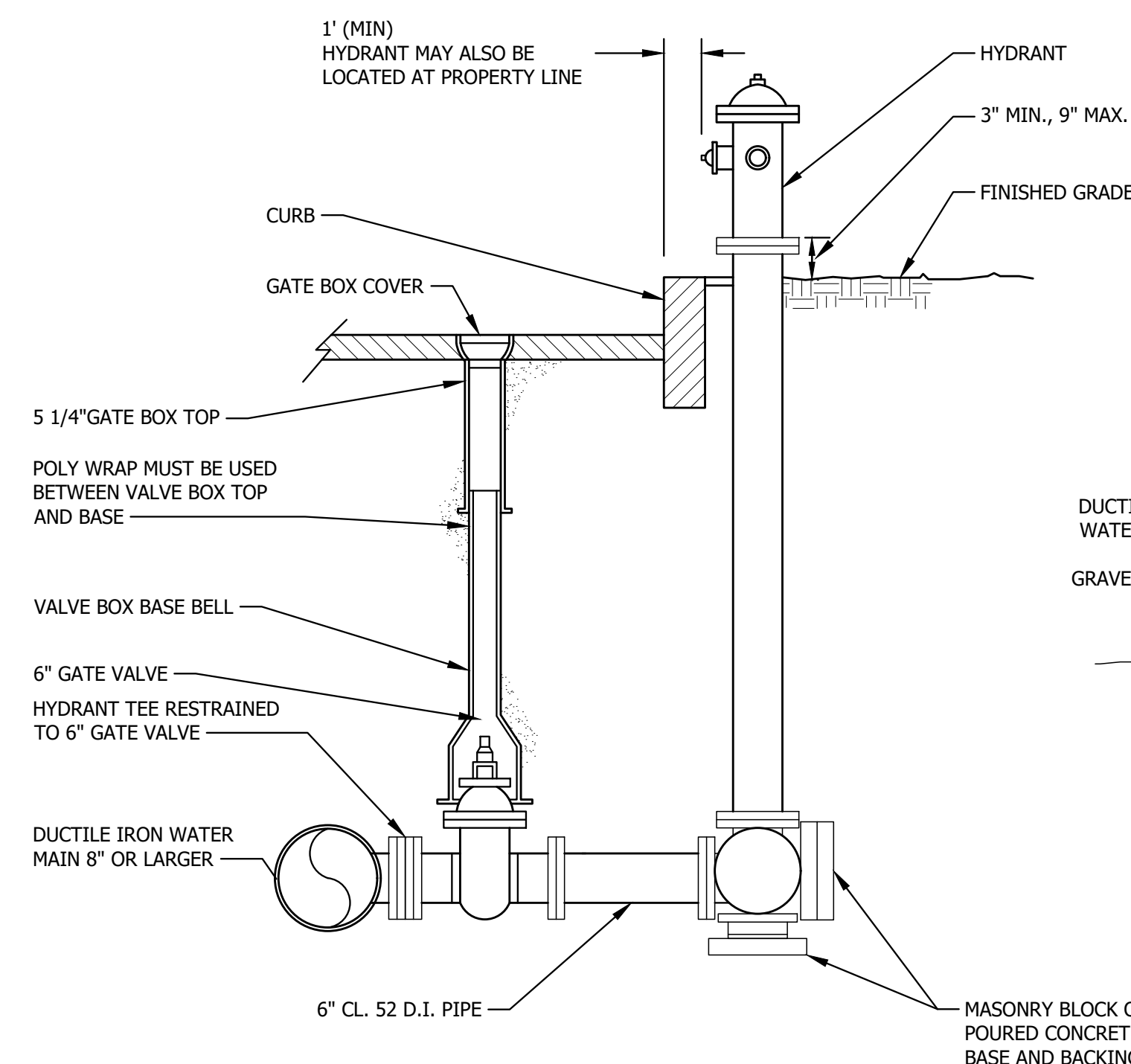


**END PLUG**

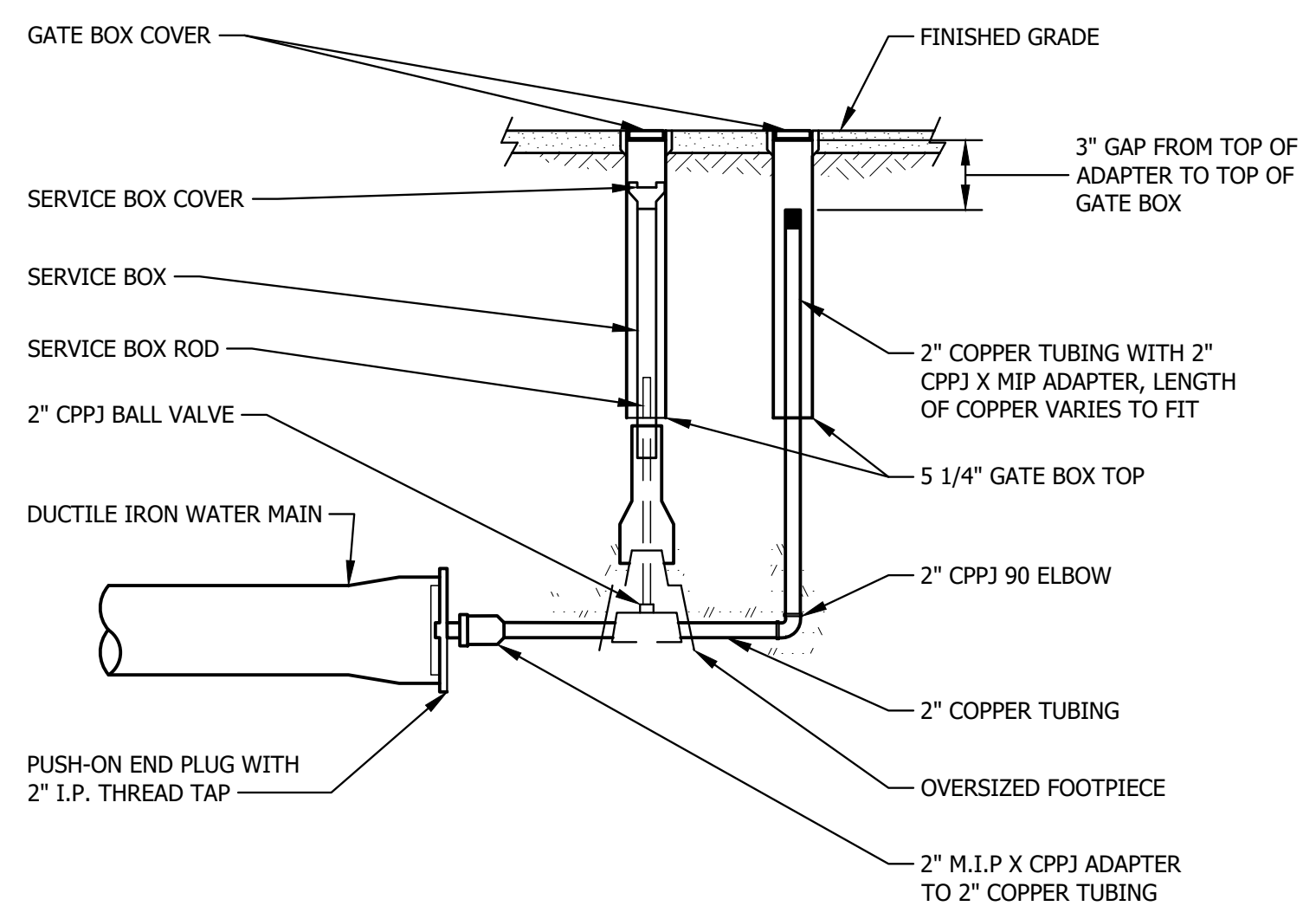
**45° BEND**

NOTE: PLACE 6 MIL (MIN) POLYETHENE SHEETING BETWEEN PIPE AND CONCRETE.

**THRUST BLOCK DETAIL**  
NTS

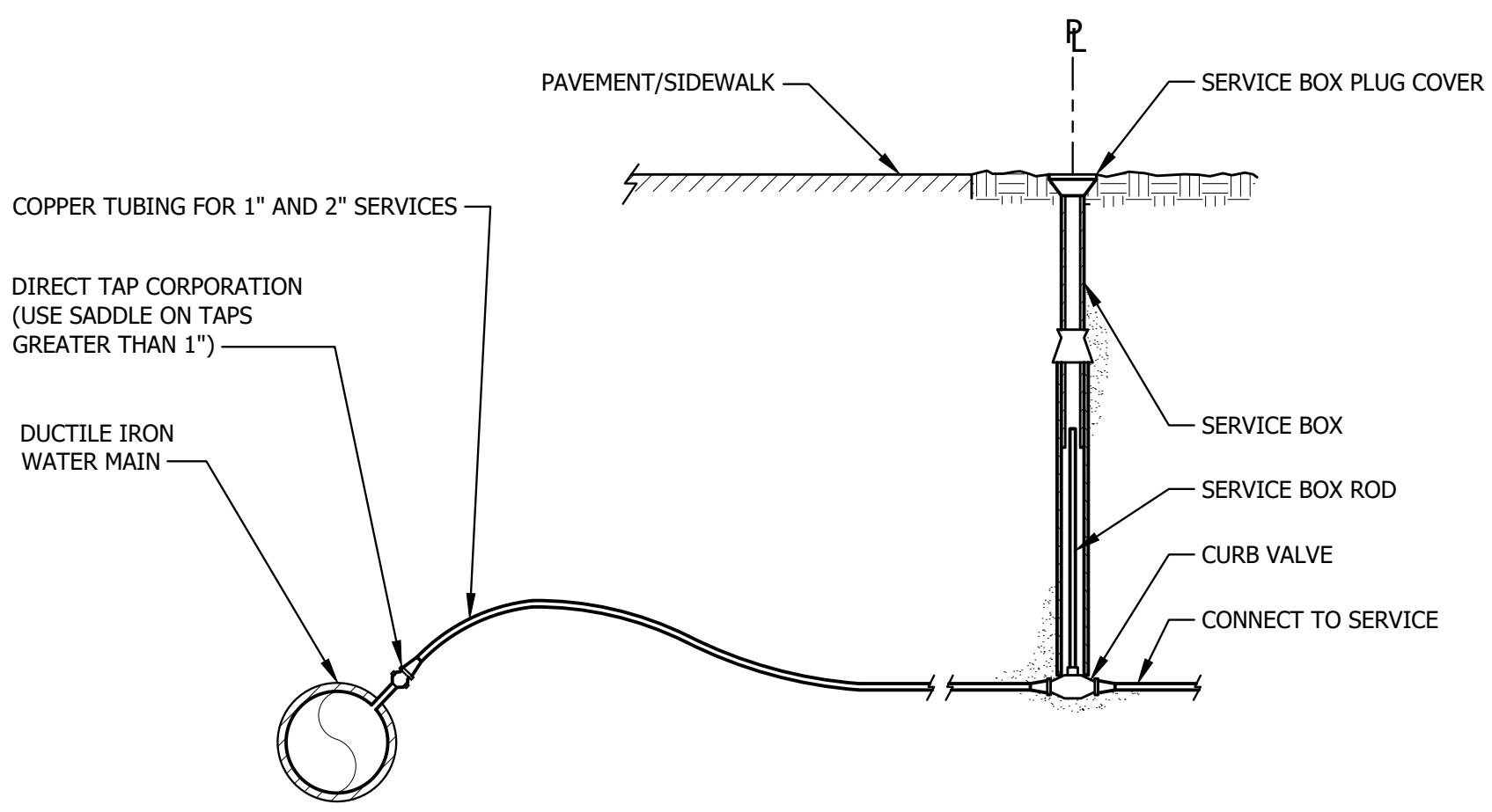


**FIRE HYDRANT**  
NTS



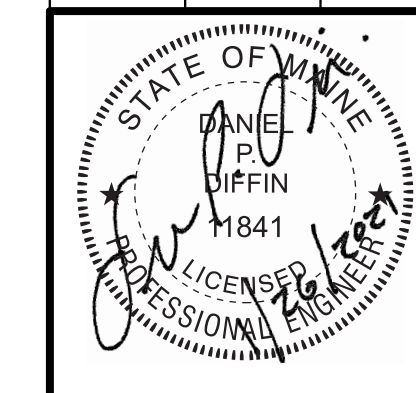
**BLOW-OFF ASSEMBLY**  
NTS

NOTE: PLUGS REQUIRE THREADED ROD RESTRAINED TO BELL AND SLOTTED DUCTILE IRON PIPE TO FIT AROUND BRASS AS BASE TO APPROVED THRUST BLOCK.



**SERVICE DETAIL**  
NTS

REV.	BY	DATE	STATUS
	DPD	12/2020	REVISED PER STAFF COMMENTS



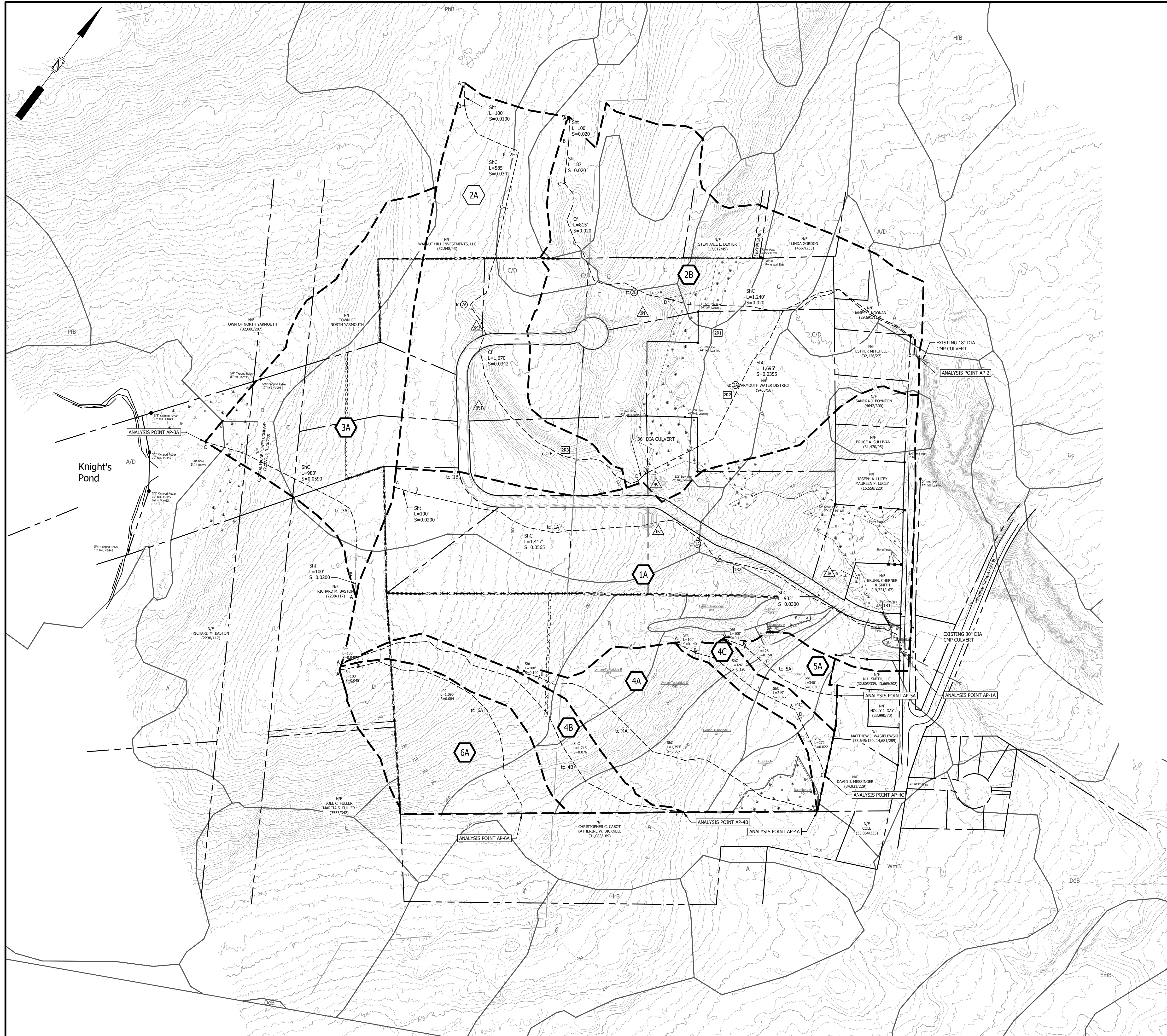
**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

**SECTIONS AND DETAILS**

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DESIGN BY:	JTR
DRAWN BY:	JRL
DATE:	12/2020
CHECKED BY:	BDP
LMN:	NONE
CTB:	SME-STD





**SOIL TYPE LEGEND**

SOIL ID	NAME	HYDROLOGIC GROUP
Ad	Adams	A
Cr	Croghan	B
Em	Elmwood	C
Na	Naumburg	C
Sc	Scantic	D

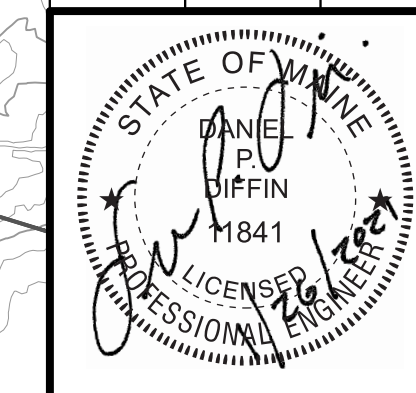
**STORMWATER MANAGEMENT LEGEND**

- 1 SUBCATCHMENT DESIGNATION
- SUBCATCHMENT BOUNDARY
- TIME OF CONCENTRATION SEGMENT DESIGNATION
- TIME OF CONCENTRATION PATH
- SOIL TYPE BOUNDARY
- SOIL TYPE DESIGNATION
- TIME OF CONCENTRATION TYPE, LENGTH, AND SLOPE
- SHEET FLOW
- SHALLOW CONCENTRATED FLOW
- CHANNEL FLOW
- DRAINAGE REACH
- REACH DESIGNATION (HYDROCAD)
- POND/STRUCTURE DESIGNATION (HYDROCAD)
- TIME OF CONCENTRATION WITH SUBCATCHMENT DESIGNATION

NOTE:  
SEE DWG C-100 FOR INFORMATION ON ORIGINS OF TOPOGRAPHY, SITE FEATURES, AND WETLANDS.



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**CONSTRUCTION AGGREGATE INC.**  
VILLAGE CENTER ESTATES, PHASE 2  
NORTH YARMOUTH, MAINE

**STORMWATER MANAGEMENT PLAN**  
PRE-DEVELOPMENT CONDITIONS

DESIGN BY: JTR
DRAWN BY: SJM
DATE: 1/2020
CHECKED BY: BDP
LMN: SMP-E
CTB: SME-STD
JOB NO. 18295.01 DWG FILE BASE
<b>D-100</b>

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