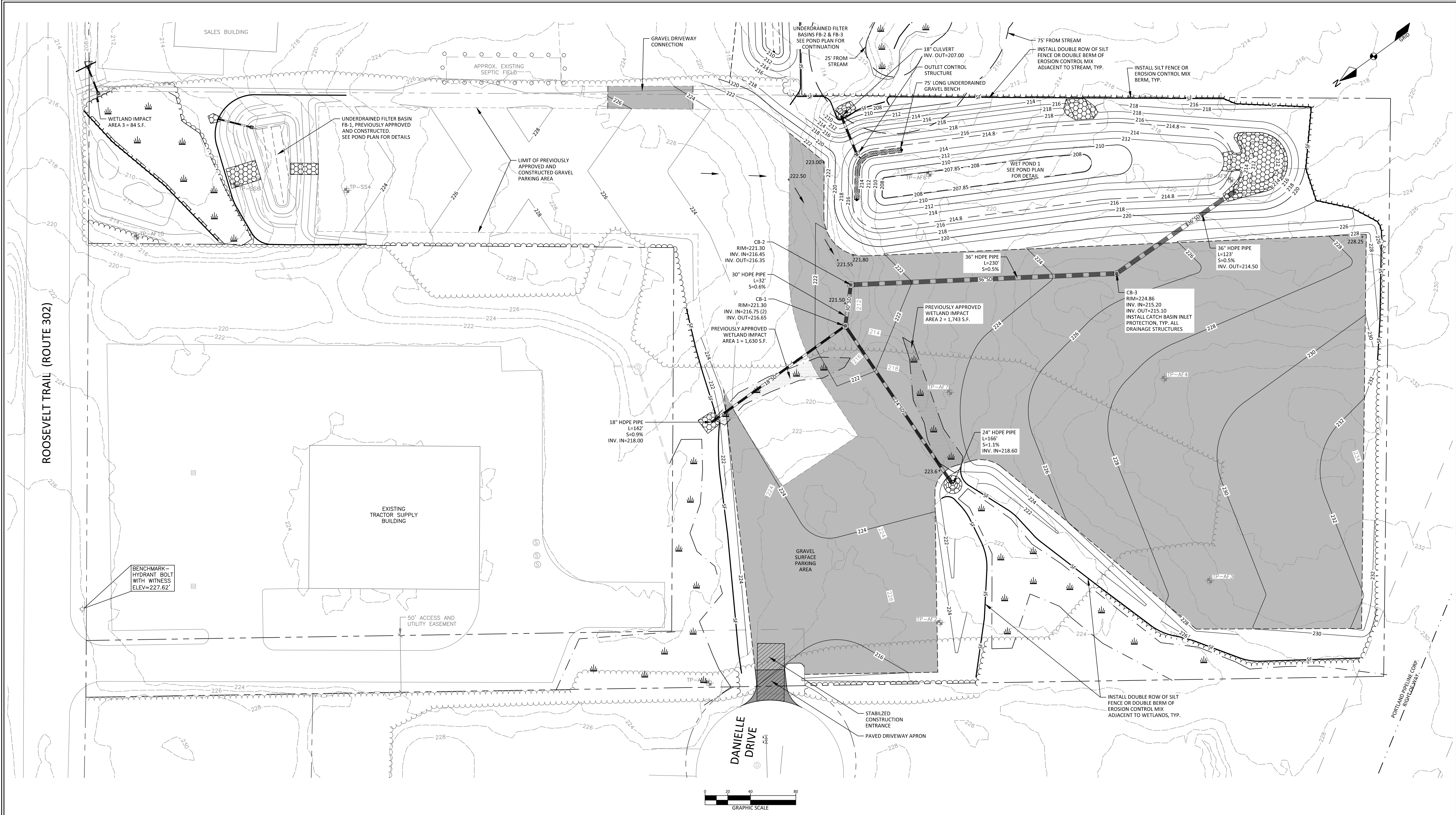
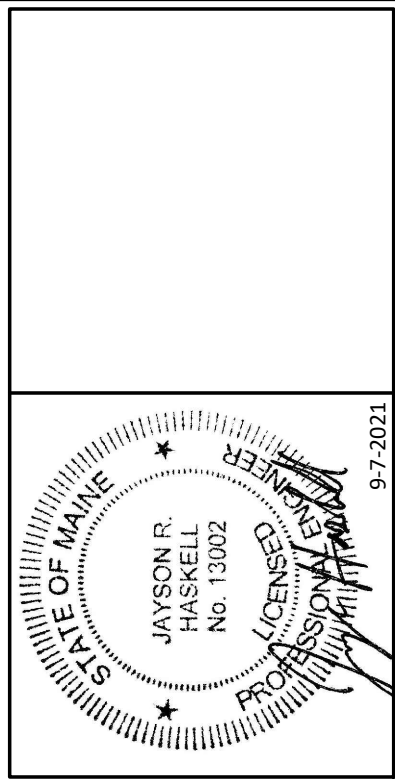




LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE/R.O.W.
	ABUTTER PROPERTY LINE
	EASEMENT LINE
	CENTERLINE
	BUILDING
	EDGE OF PAVEMENT/CURB
	EDGE OF GRAVEL
	EDGE OF WETLANDS
	CONTOUR LINE
	TREELINE
	TEST PIT - ALBERT FRICK ASSOCIATES, INC. (2021)
	TEST PIT - SUSTAINABLE SOILS (2017)
	CATCHBASIN
	CULVERT/STORMDRAIN
	UNDERDRAIN
	RIPRAP
	SILT FENCE



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REV	DATE	BY	DESCRIPTION
A	2-26-21	JRH	MDP PRE-SUBMISSION
B	4-1-21	JRH	ISSUED FOR MDP SLOCA PERMIT REVIEW
C	9-7-21	JRH	REVISED PER TOWN REVIEW

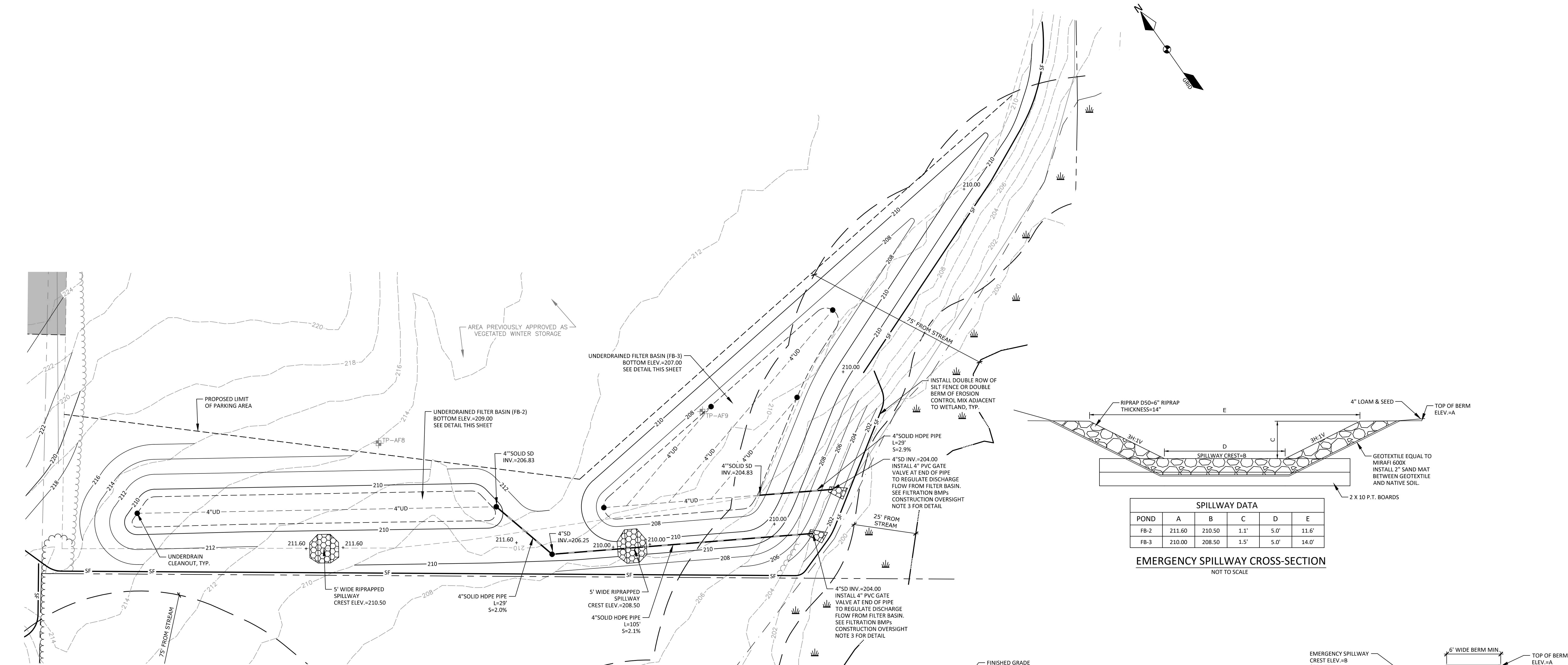
OVERALL GRADING PLAN

SURFACE PARKING FACILITY

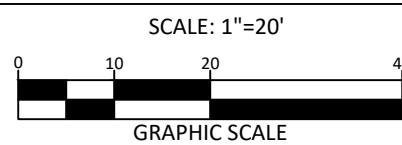
ROOSEVELT TRAIL & DANIELLE DRIVE
WINDHAM, MAINE

FOR:
LEE'S FAMILY TRAILER ACQUISITION, LLC
480 ROOSEVELT TRAIL
WINDHAM, MAINE 04062

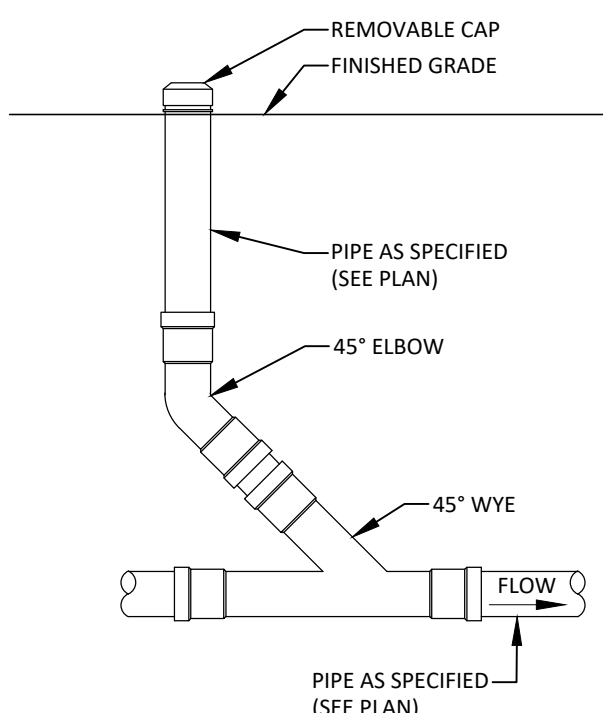
17011
JOB NUMBER:
1" = 40'
SCALE:
9-7-2021
DATE:
SHEET 4 OF 9
OG-1



PLAN VIEW: UNDERDRAINED FILTER BASINS FB-2 & FB-3



LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE/R.O.W.
	ABUTTER PROPERTY LINE
	EASEMENT LINE
	CENTERLINE
	EDGE OF PAVEMENT/CURB
	EDGE OF GRAVEL
	EDGE OF WETLANDS
	CENTERLINE OF STREAM
	CONTOUR LINE
	TREELINE
	TEST PIT - ALBERT FRICK ASSOCIATES, INC. (2021)
	TEST PIT - SUSTAINABLE SOILS (2017)
	CATCHBASIN
	CULVERT/STORMDRAIN
	UNDERDRAIN
	RIPRAP
	SILT FENCE

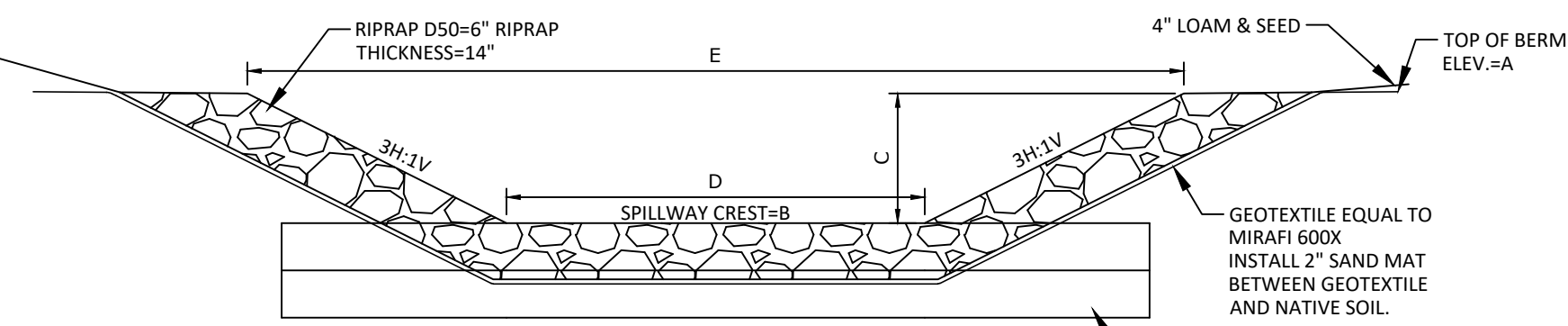


UNDERDRAIN CLEANOUT DETAIL
NOT TO SCALE

TABLE 7.1 UNDERDRAIN 703.22 TYPE "B"	
SIEVE SIZE	% PASSING BY WEIGHT
1"	90-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

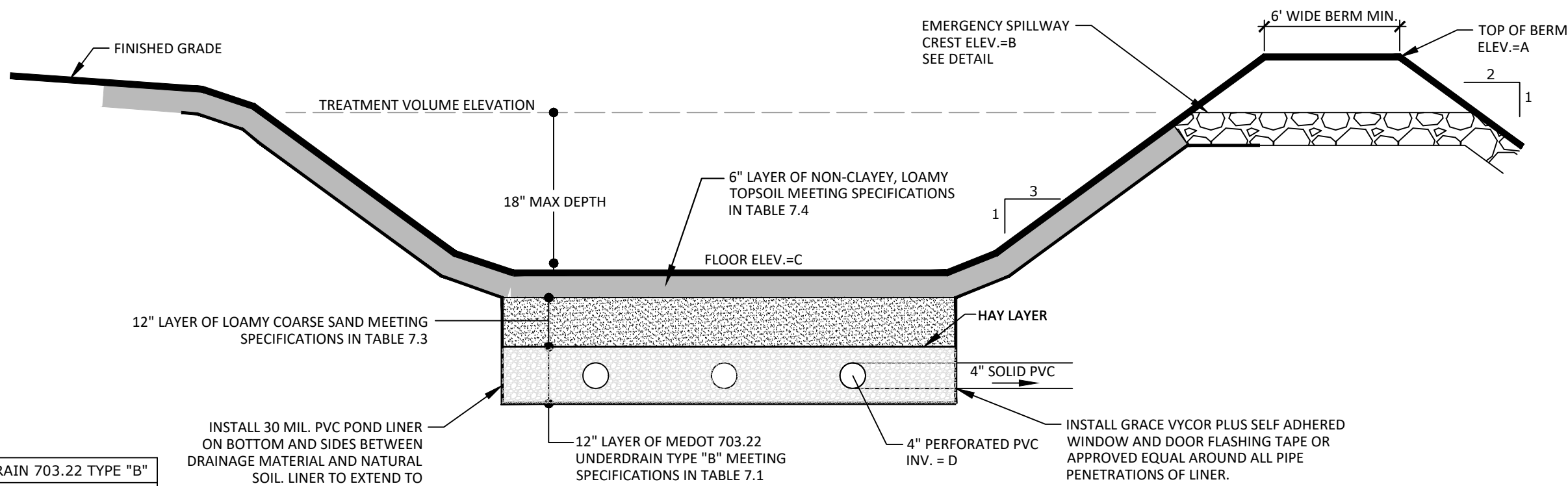
TABLE 7.3 LOAMY COARSE SAND	
SIEVE SIZE	% PASSING BY WEIGHT
#10	85-100
#20	70-100
#60	15-40
#200	8-15
200 CLAY	<2.0

TABLE 7.4 SANDY LOAM	
SIEVE SIZE	% PASSING BY WEIGHT
#4	75-95
#10	60-90
#40	35-85
#200	20-70
200 CLAY	<2.0



SPILLWAY DATA					
POND	A	B	C	D	E
FB-2	211.60	210.50	1.1'	5.0'	11.6'
FB-3	210.00	208.50	1.5'	5.0'	14.0'

EMERGENCY SPILLWAY CROSS-SECTION
NOT TO SCALE



FILTER BASIN DATA				
POND	A	B	C	D
FB-2	211.60	210.50	209.00	206.83
FB-3	210.00	208.50	207.00	204.83

FILTRATION BMPs CONSTRUCTION OVERSIGHT NOTES:

- INSPECTION BY THE DESIGN ENGINEER OR SUITABLE THIRD PARTY WILL OCCUR AT A MINIMUM:
A) AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED.
B) AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA.
C) AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDING.
D) AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS.
E) 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 MDEP SPECIFICATIONS.
- 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:
A) SELECT SAMPLES FOR SAMPLING 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.
B) PERFORM A SIEVE ANALYSIS CONFORMING TO STM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SIFT FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE. A CLAY CONTENT OF LESS THAN 2% (DETERMINED BY HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
C) PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90-92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.
- AFTER CONSTRUCTION IS COMPLETE, THE DESIGN ENGINEER SHALL ADJUST THE PVC GATE VALVE AT THE OUTLET OF THE FILTER BED DISCHARGE PIPE TO ENSURE THE TREATMENT VOLUME DRAINS COMPLETELY WITHIN 24 TO 48 HOURS.
- WITHIN 30 DAYS OF COMPLETION OF THE FILTRATION BMP, THE APPLICANT SHALL SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS TAKEN, AND THE DATES OF EACH INSPECTION TO THE MAINE DEP BUREAU OF LAND RESOURCES FOR REVIEW.

FILTER BASIN SECTION
NOT TO SCALE

POND PLAN - FILTER BASINS FB-2 & FB-3

SURFACE PARKING FACILITY

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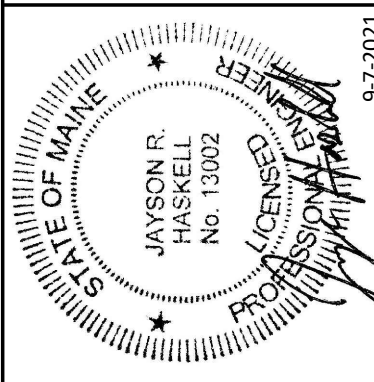
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SHEET 7 OF 9

P-3



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