

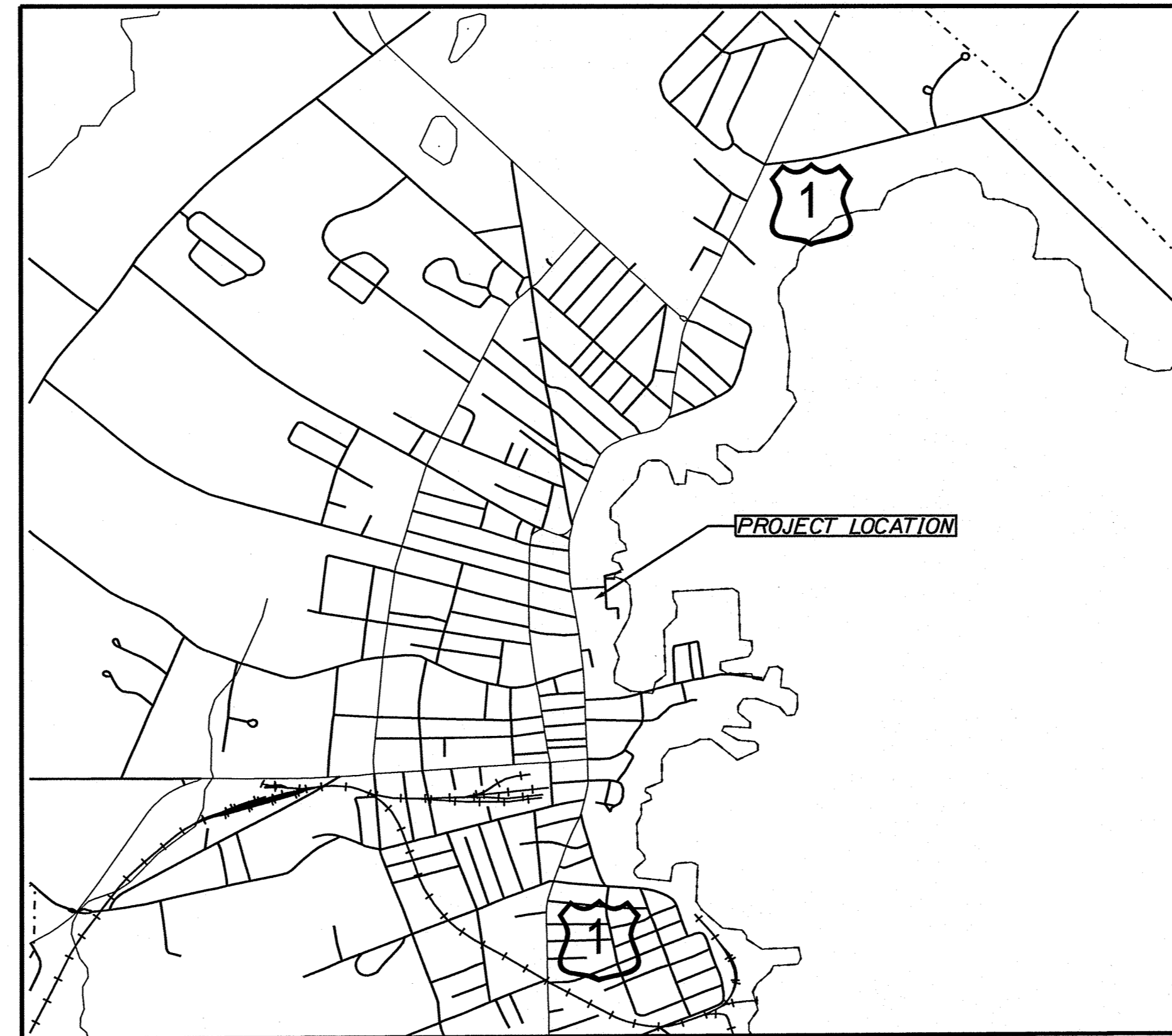
STATE OF MAINE DEPARTMENT OF TRANSPORTATION



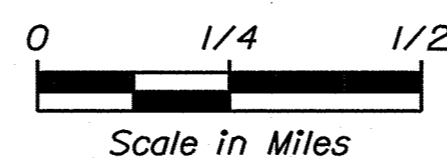
ROCKLAND KNOX COUNTY ROCKLAND FERRY TERMINAL STATE PROJECT NO. 22946.00

PLAN LEGEND	
Town, County, State _____	Centerline-Existing _____
Property Lines - - - - -	Centerline-Proposed _____
R/W Lines-Existing _____	Travelway-Existing _____
R/W Lines-Proposed _____	Travelway-Proposed _____
Culvert-Existing _____	Railroad _____
Culvert Proposed _____	Catch Basins <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Curbing Existing Proposed	Manholes <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Type 1 _____	Proposed Underdrain _____
Type 3 _____	Proposed Ditch _____
Type 5 _____	Existing Ditch _____
Outline of Bodies of Water _____	Utility Poles <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Boring HB-XXX-###	Fire Hydrants <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Pavement Core PC-#	Existing Water Line _____
Test Pit TP-XXX-###	Existing San. Sewer _____
Probe P-#.#X	Existing San. Sewer Manhole
#.# = Depth	Guardrail-Existing _____
X = W (Weathered Rock)	Guardrail-Proposed _____
R (Refusal)	Guardrail-Cable, Other _____
NR (No Refusal)	Exposed Bedrock _____
	Buildings _____
	Trees Conifer Deciduous
	Tree Line _____
	Clearing Limit Line _____

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
Typical Sections	2
Parking Lot Plan	3
Parking Layout Plan	4
Boring Location Plan with Foundation	
Design Requirements and Boring Logs	5

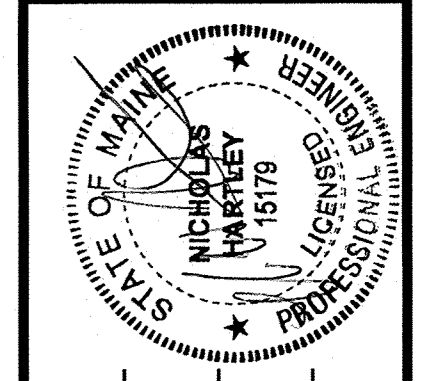


LOCATION MAP



PROJECT LOCATION:	Rockland Ferry Terminal Parking Facility
PROGRAM AREA:	Multimodal Program
SCOPE OF WORK:	Parking Lot Rehabilitation

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: <i>[Signature]</i>	1/31/18
	CHIEF ENGINEER: <i>[Signature]</i>	1-30-18



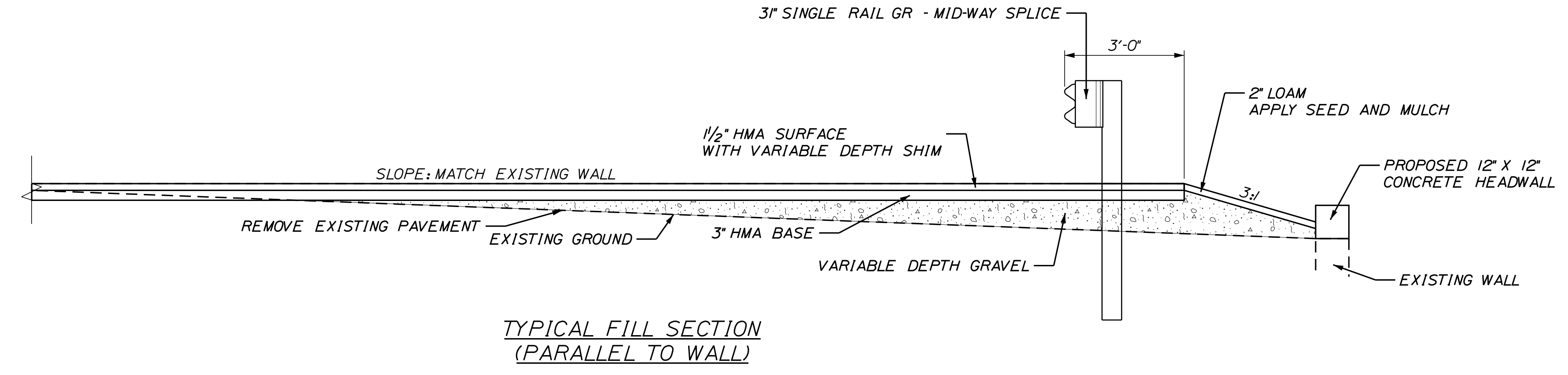
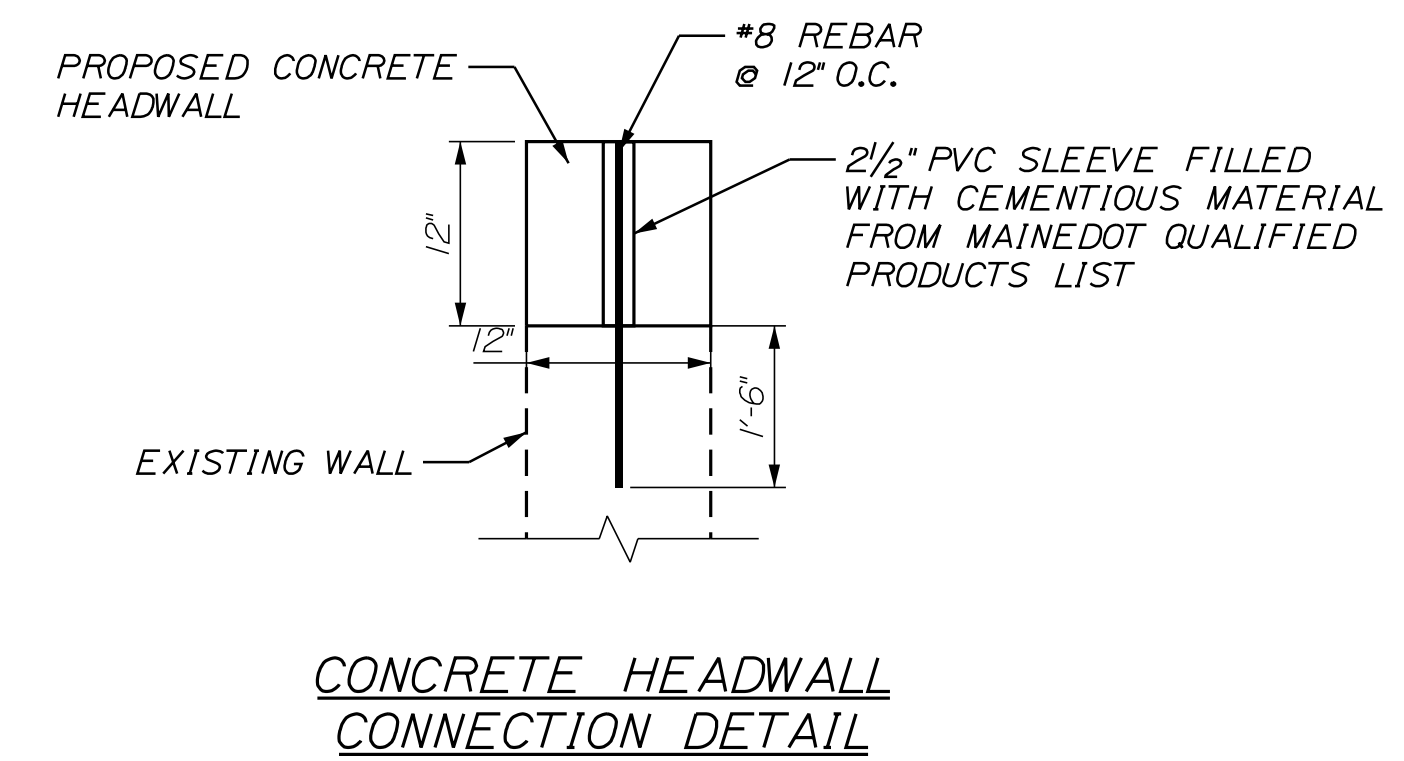
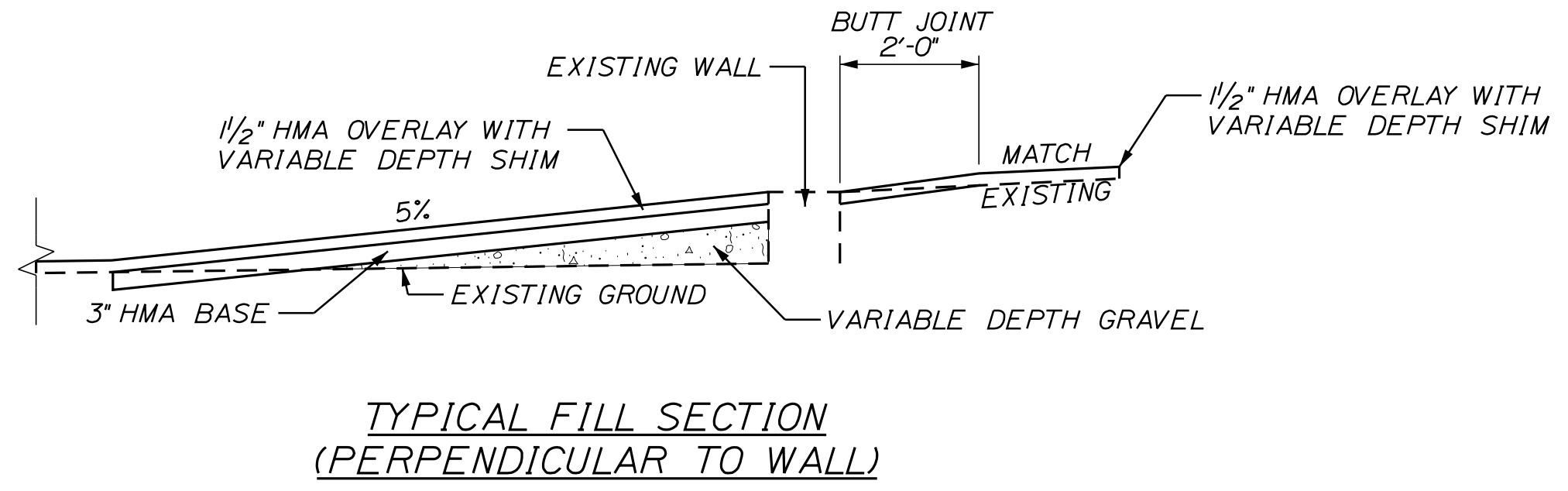
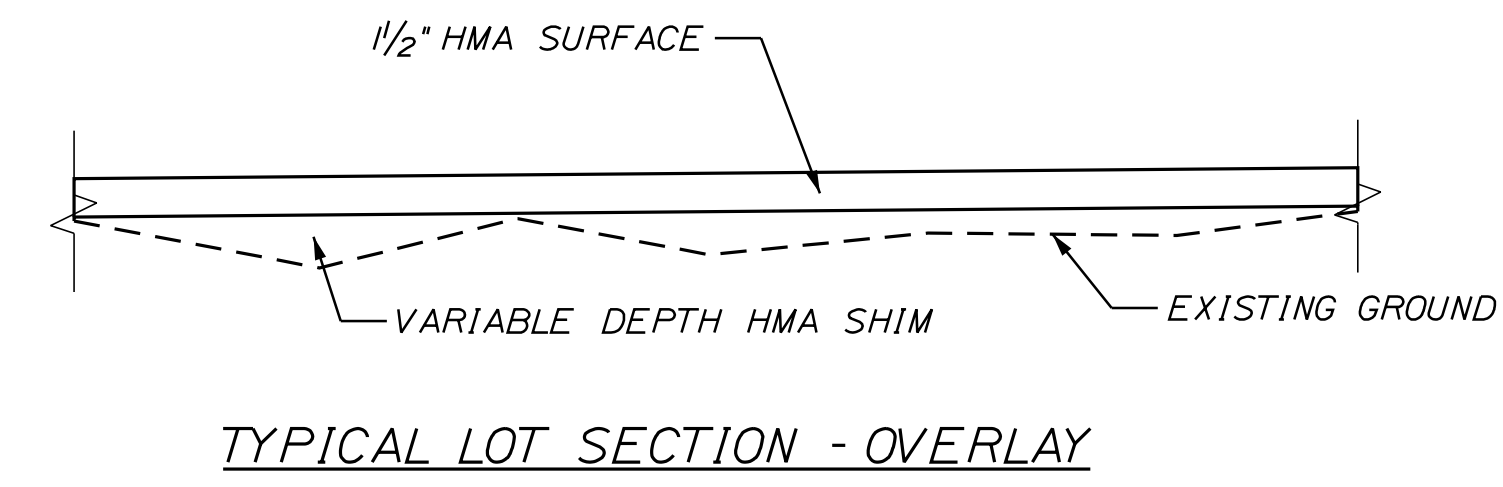
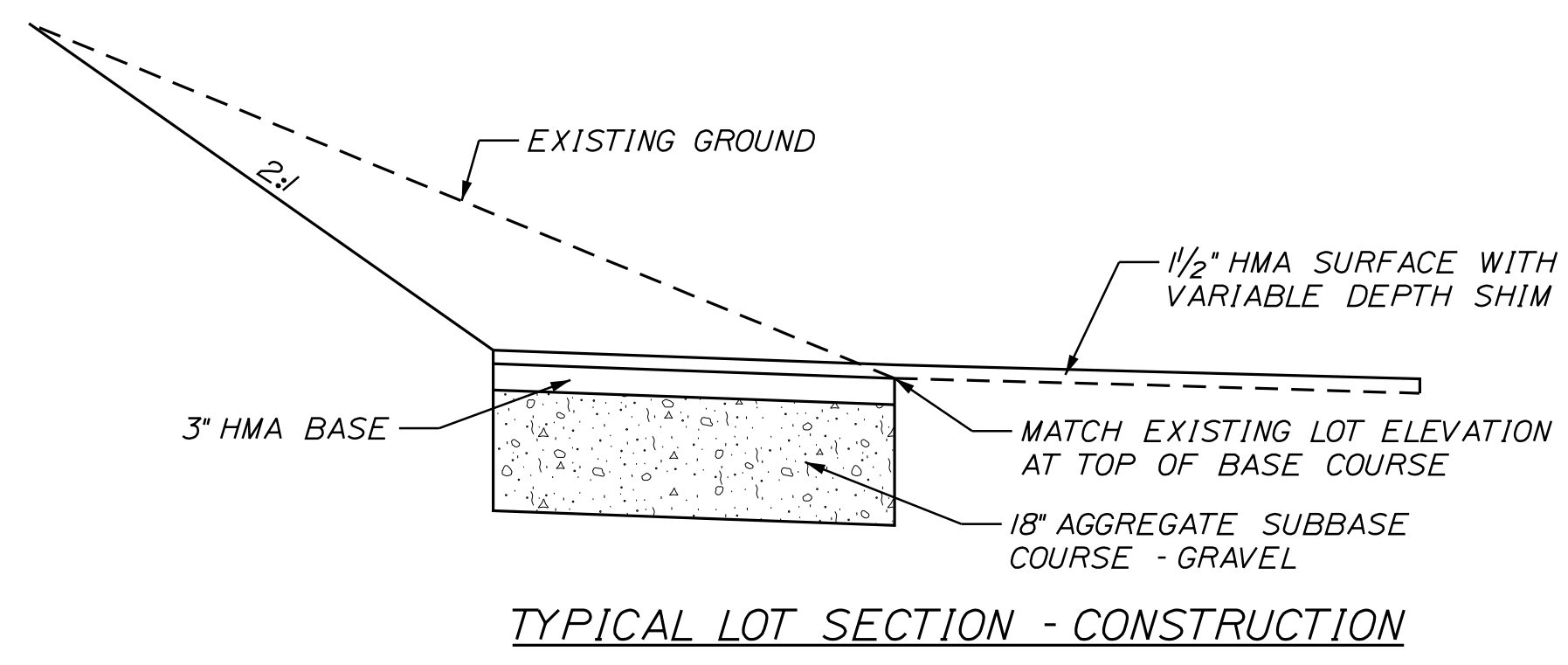
<i>[Signature]</i>	SIGNATURE
15179	P.E. NUMBER
1/25/18	DATE

PROJECT INFORMATION	
MULTIMODAL PROGRAM	PROGRAM
BRIAN KEELER	PROJECT MANAGER
NICHOLAS HARTLEY	DESIGNER
	CONSULTANT
	PROJECT RESIDENT
	CONTRACTOR
	PROJECT COMPLETION DATE

ROCKLAND
ROCKLAND FERRY TERMINAL
TITLE SHEET

SHEET NUMBER
1
OF 5

WIN 22946.00 022946.00

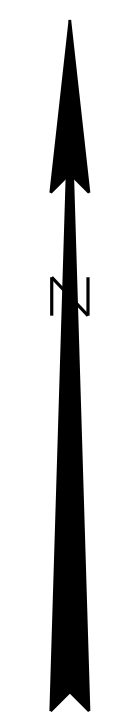
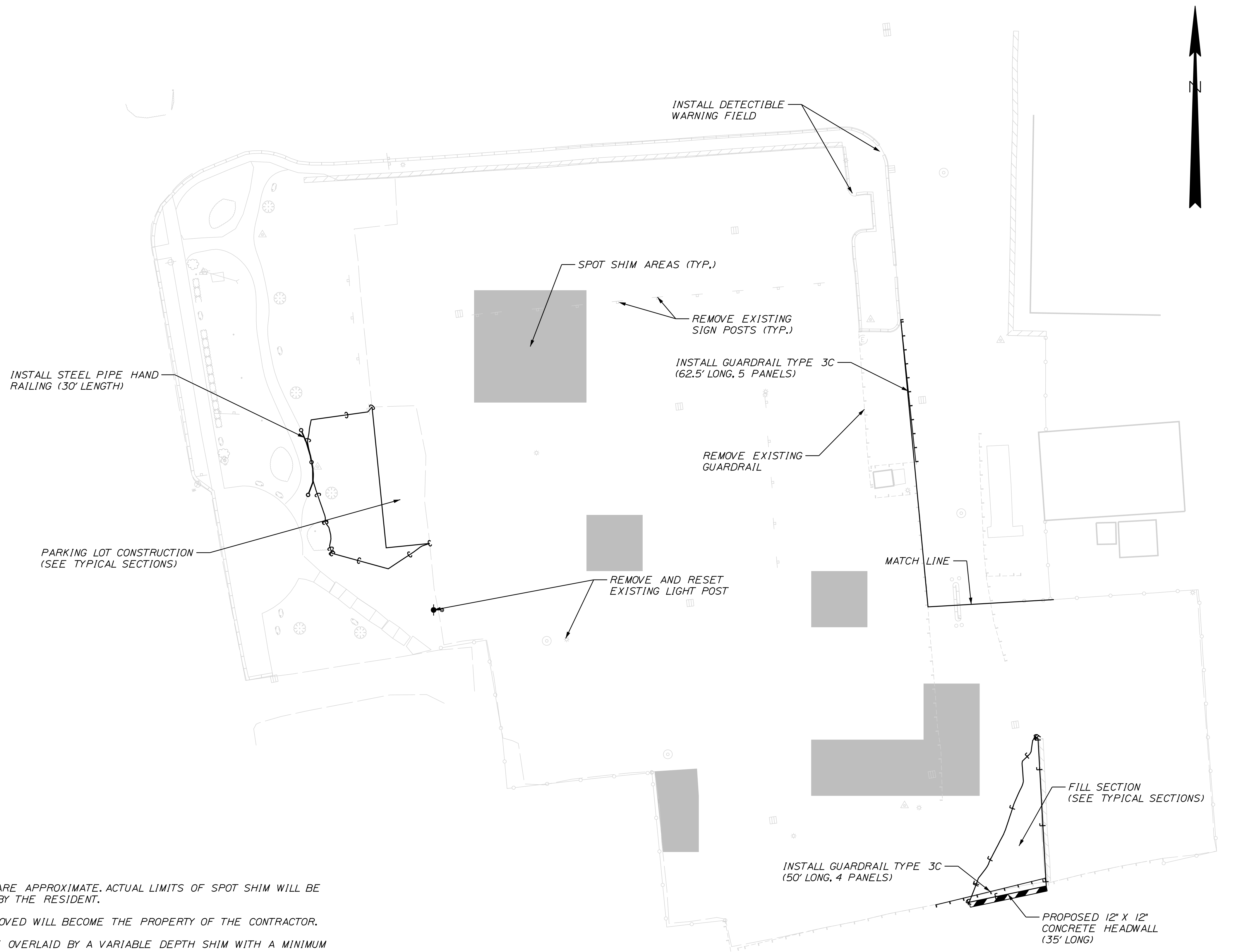


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
CAPITAL PROJECTS		WIN 22946.00	
HIGHWAY PLANS			
PROJ. MANAGER	B. KEEZER	BY	DATE
DESIGN-DETAILED	N. HARTLEY	CHECKED-REVIEWED	T. WHITE
DESIGN-DETAILED	K. MAGUIRE	DESIGN-DETAILED	JAN 2018
REVISIONS 1		SIGNATURE	
REVISIONS 2		P.E. NUMBER	
REVISIONS 3		DATE	
REVISIONS 4			
FIELD CHANGES			
ROCKLAND FERRY TERMINAL		TYPICAL SECTIONS	
SHEET NUMBER		2	
OF 5		NOT TO SCALE	

PLAN



Filename: ... \HIGHWAY\MSTA\003_LotPlan.dgn Division: HIGHWAY Username: nicholas.w.hartley Date:1/26/2018



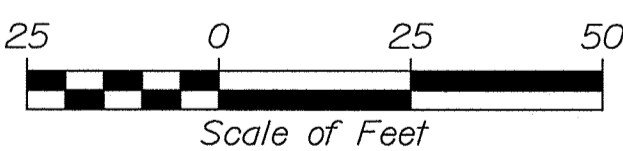
- NOTES:
1. SPOT SHIM AREAS SHOWN ARE APPROXIMATE. ACTUAL LIMITS OF SPOT SHIM WILL BE DETERMINED IN THE FIELD BY THE RESIDENT.
 2. EXISTING SIGN POSTS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR.
 3. THE ENTIRE LOT SHALL BE OVERLAID BY A VARIABLE DEPTH SHIM WITH A MINIMUM THICKNESS OF 1/2".
 4. PROPOSED STEEL PIPE HAND RAIL SHALL MATCH THE TYPE ON THE EXISTING STAIRS.
 5. PAYMENT FOR THE CONCRETE HEADWALL WILL BE MADE UNDER ITEM 502.21 - STRUCTURAL CONCRETE, ABUTMENTS, AND RETAINING WALLS. REINFORCING STEEL AND CONNECTION TO THE EXISTING WALL WILL BE CONSIDERED INCIDENTAL TO THIS ITEM. THE HEADWALL MAY BE PRECAST CONCRETE OR CLASS A CONCRETE AT THE CONTRACTOR'S OPTION.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		CAPITAL PROJECTS	
ROCKLAND FERRY TERMINAL		SHEET NUMBER		WIN 22946.00 HIGHWAY PLANS	
PARKING LOT PLAN		3		OF 5	
PROJ. MANAGER	B. KEEZER	BY	DATE	SIGNATURE	P.E. NUMBER
CHECKED-REVIEWED	N. HARTLEY	T. WHITE	JAN 2018		
DESIGN DETAILED	K. MAGUIRE				
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



LEGEND
 CASED WASH BORING

PLAN



Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Parking Lot Improvements Maine State Ferry Service Location: Rockland, Maine		Boring No.: HB-ROCK-101				
Driller:	New England Boring Contractors	Elevation (ft.):	11.9	Auger ID/OD:	HSA to 11 ft			
Operator:	Schoefer / Titus	Datum:	NAVD88	Sampler:	standard split spoon			
Logged By:	Schonwald	Rig Type:	Mobile Drill B-53	Hammer Wt./Fall:	140 lbs / 30 in			
Date Start/Finish:	1/18/18; 0855-1415	Drilling Method:	auger boring / cased wash boring	Core Barrel:	N02			
Boring Location:	parking lot near bottom of staircase from Route 101 see	Casing ID/OD:	HW to 11 ft; HW to 11.2 ft	Water Level:	18" ft (against tidal influence)			
Hammer Efficiency Factor:	0.869	Hammer Type:	Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>					
Definitions: S _u = Peak/Retained Field Vane Undrained Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) P = Split Spoon Sample S _{sa} = Solid Stem Auger S _{liq} = Liquid Limit W _c = Water Content, percent MD = Unsuccessful Split Spoon Sample Attempt HSA = Hollow Stem Auger U _g = Unconfined Compressive Strength (ksf) M = Thin Wall Tube Sample RC = Roller Cone Uncorrected = Raw Field SPT blowcount PL = Plastic Limit MU = Unsuccessful Thin Wall Tube Sample Attempt W _l = Weight of 140lb. Hammer Hammer Efficiency Factor = Rig Specific Annual Calibration Value P _i = Plasticity Index V = Field Vane Shear Test PP = Pocket Penetrometer/RC = Weight of Rods or Casing N ₆₀ = SPT Uncorrected Corrected for Hammer Efficiency G = Grain Size Analysis W = Unsuccessful Field Vane Shear Test Attempt W _{101P} = Weight of One Person No. = (Hammer Efficiency Factor/60) * Uncorrected C = Consolidation Test								
Depth (ft.)	Sample Information						Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class
	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows (1/6 in. SPT) or RC (15)	Uncorrected N ₆₀	Corrected N ₆₀		
0-2.0							2 inch HMA	
2.0-5.0	10	24/8	2.50 - 4.50	11-12-10-20	22	32	2 ft: Obstruction: break through at 2.5 ft. 10: Black brown, damp, m. dense, fine to coarse Sandy GRAVEL, trace to little silt; layered. FILL	
5.0-10.0	5	MD	24/0	5.00 - 7.00	6-5-6-7	13	19	MD: MISCELLANEOUS GRAVEL FILL based on auger cuttings and drilling behavior. 7 to 10 ft: Very difficult to advance boring; blocky / boney fill.
10.0-11.2								20: Brown changing to black, wet, fine to coarse Sandy GRAVEL, some silt; layered; black organic material with gravel in tip of spoon. 11 ft: HSA; then RC casing refusal.
11.2-16.20	RT	60/58	11.20 - 16.20	RD: 40" = 67%				0.7 11.20 Top of Bedrock at Elev. 0.7 ft. RT: Hard, typically fresh, fine grained, grey, GRANULES with remnant bedding visible, quartzite inclusions, calcillite veins, and black mud lenses. Close to moderately spaced, low and high-angle breaks; undulating, rough, fresh to discolored, and open. Highly broken from 11.2 to 11.7 ft. Core times: 12:05 / 2:05 / 2:10 / 1:55 / 1:55 min:sec/ft. Rock Mass Quality = Fair
16.20-25								-4.3 16.20 Bottom of Exploration at 16.20 feet below ground surface.
Notes: 25.7 ft to corner chain-link fence; 53.6 ft to "exist" light pole to be relocated Autohammer #B-24								
Stratification lines represent approximate boundaries between soil types; transitions may be gradual.								
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.								
						Page 1 of 1		
						Boring No.: HB-ROCK-101		

Design of the Foundations for the Light Pole shall be based on Standard Details 626(03) and 626(04) using Charts P30-1, P30-2 and P30-3 (Soils with Phi = 30 degrees) with reference to Standard Specification Section 626.034 for shallow bedrock and Standard Detail 626(06) (Top) for foundations where solid rock is encountered at less than the required distance below ground level.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 CAPITAL PROJECTS
 WIN
 22946.00
 HIGHWAY PLANS

STATE OF MAINE
 KATHLEEN MAGUIRE
 7/20
 PROFESSIONAL ENGINEER
 SIGNATURE
 P.E. NUMBER
 1/23/2018
 DATE

PROJ. MANAGER	DATE	BY
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN-DETAILED	JAN 2018	I. WHITE
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

ROCKLAND
 PARKING LOT RECONFIGURATION
 BORING LOCATION PLAN WITH
 FOUNDATION DESIGN REQUIREMENTS
 AND BORING LOG