

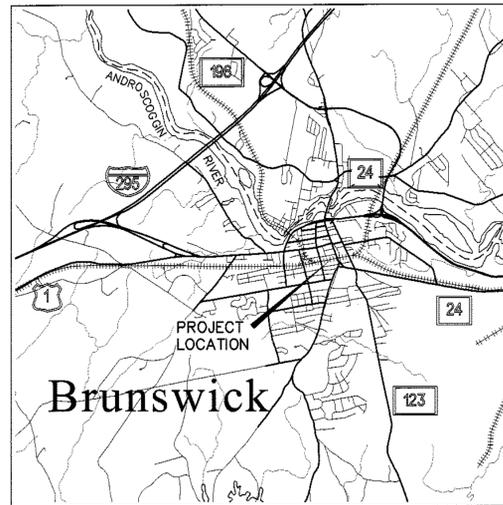
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



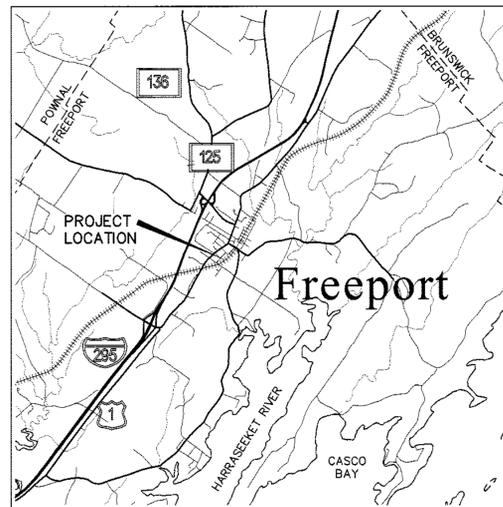
TOWNS OF
BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY

PASSENGER RAIL PLATFORMS

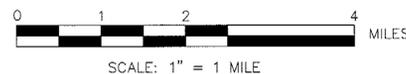
PIN 15236.20
PIN 15236.30



BRUNSWICK LOCATION MAP



FREEPORT LOCATION MAP



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Existing Conditions Plan - Freeport	C-2
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PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY

TITLE SHEET

SHEET NUMBER
G-1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
COMMISSIONER: *Robert J. Levesque*
DATE: 2/1/11

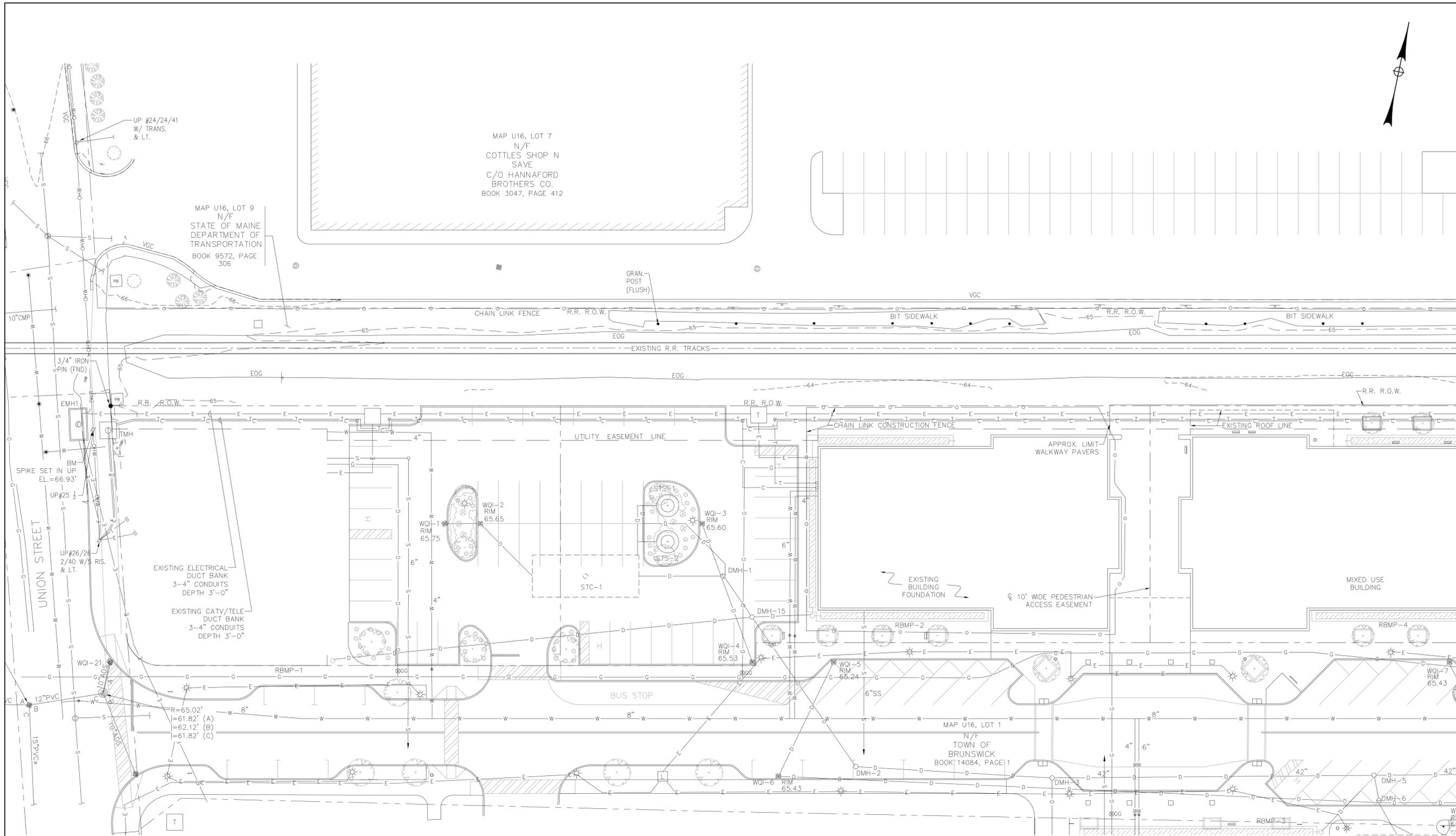
CHIEF ENGINEER: *James J. Levesque*

PROFESSIONAL SEAL: THOMAS T. THOMPSON, No. 6002

PROJECT INFORMATION	
PROGRAM	MULTIMODAL
PROJECT MANAGER	PAUL POTTE
DESIGNER	TOM MENDRICK
CONSULTANT	MCFARLAND JOHNSON, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE: *Thomas T. Thompson*
10075
P.E. NUMBER: 1-18-2011
DATE: 2/1/11

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-5022
PH: 603-225-2978 FAX: 603-225-0095

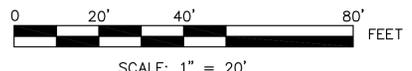


PLAN REFERENCE:

- FOR INFORMATION ON MAINE STREET STATION SUBDIVISION SEE PLAN BY MACTECH ENTITLED "MAINE STREET STATION, AMENDED SUBDIVISION PLAN FOR JHR DEVELOPMENT OF MAINE, LLC", DATED APRIL 2, 2009.

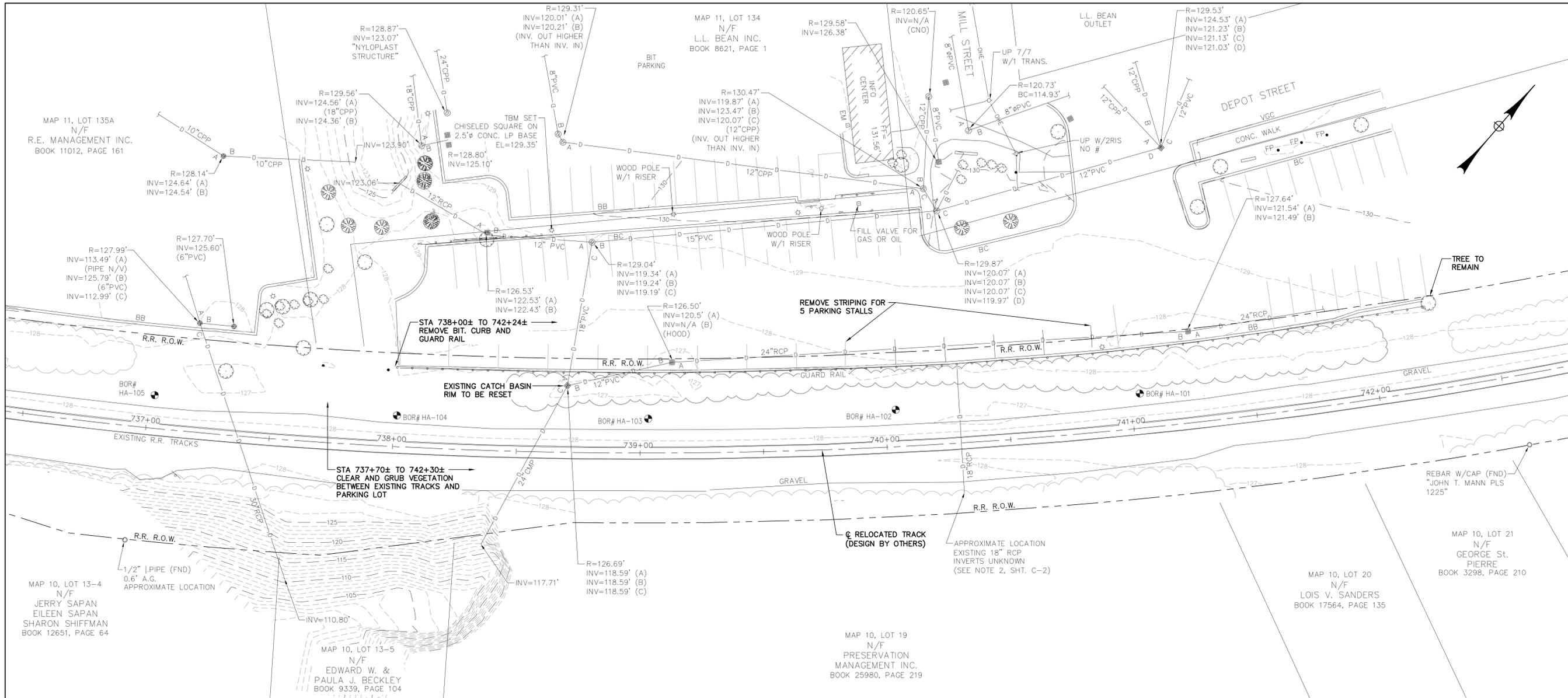
NOTES:

- EXISTING SITE INFORMATION FROM TOPOGRAPHIC SURVEY PROVIDED BY MDT, SITE PLAN DOCUMENTS PROVIDED BY MDT, AND VISUAL SITE INSPECTION. ALL UNDERGROUND UTILITY INFORMATION SHOULD BE CONSIDERED APPROXIMATE, BASED ON BEST INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL EVALUATE THE EXISTING STORM DRAINAGE SYSTEM WITHIN THE PROJECT AREA AND REPORT ANY DEFICIENCIES TO MDT PRIOR TO CONSTRUCTION. REPAIR OR REPLACEMENT OF EXISTING STORM DRAINAGE ELEMENTS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

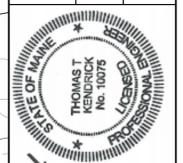


McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-5022
PH: 603-225-2978 FAX: 603-225-0095

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STATE PROJECT NUMBER 15236		PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)	
		DATE: 12/22/10 BY: TJB P. POTTLER: TJB PROJ. MANAGER: P. POTTLER CHECKED-REVIEWED: CPB DESIGN-DETAILED 2: CPB DESIGN-DETAILED 3: CPB REVISIONS 1: REVISIONS 2: REVISIONS 3: FIELD CHANGES:		SIGNATURE: <i>Thomas T. Kendrick</i> P.E. NUMBER: 10075 DATE: 1-18-2011	
PASSENGER RAIL PLATFORMS TOWNS OF BRUNSWICK AND FREEPORT CUMBERLAND COUNTY		EXISTING CONDITIONS PLAN - BRUNSWICK		SHEET NUMBER	
				C-1	



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



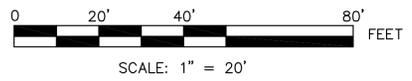
THOMAS T. KENDRICK
 No. 10075
 P.E. NUMBER
 1-18-2011
 DATE

PROJ. MANAGER	P. POTTLE	DATE
DESIGN-DETAILED	TJB	1/22/10
CHECKED-REVIEWED	CPB	1/22/10
DESIGN-DETAILED 2		
DESIGN-DETAILED 3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
FIELD CHANGES		

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 EXISTING CONDITIONS PLAN
 - FREEPORT

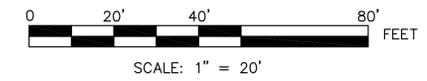
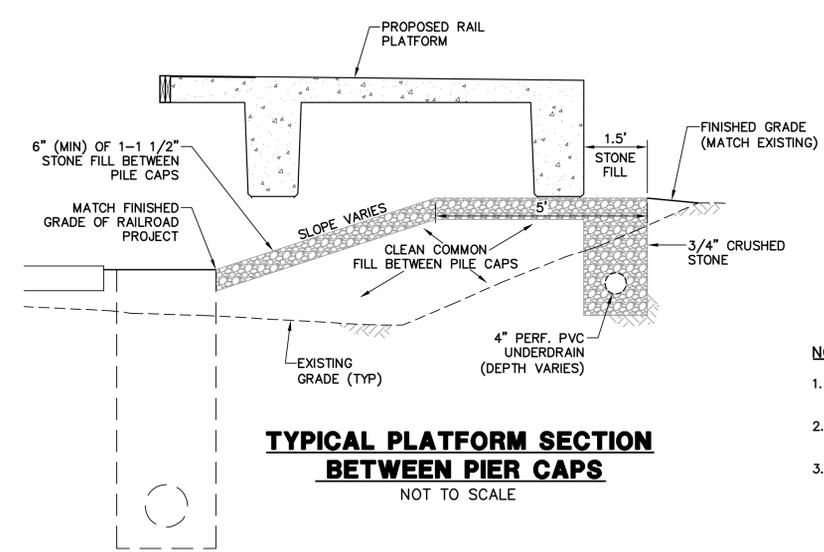
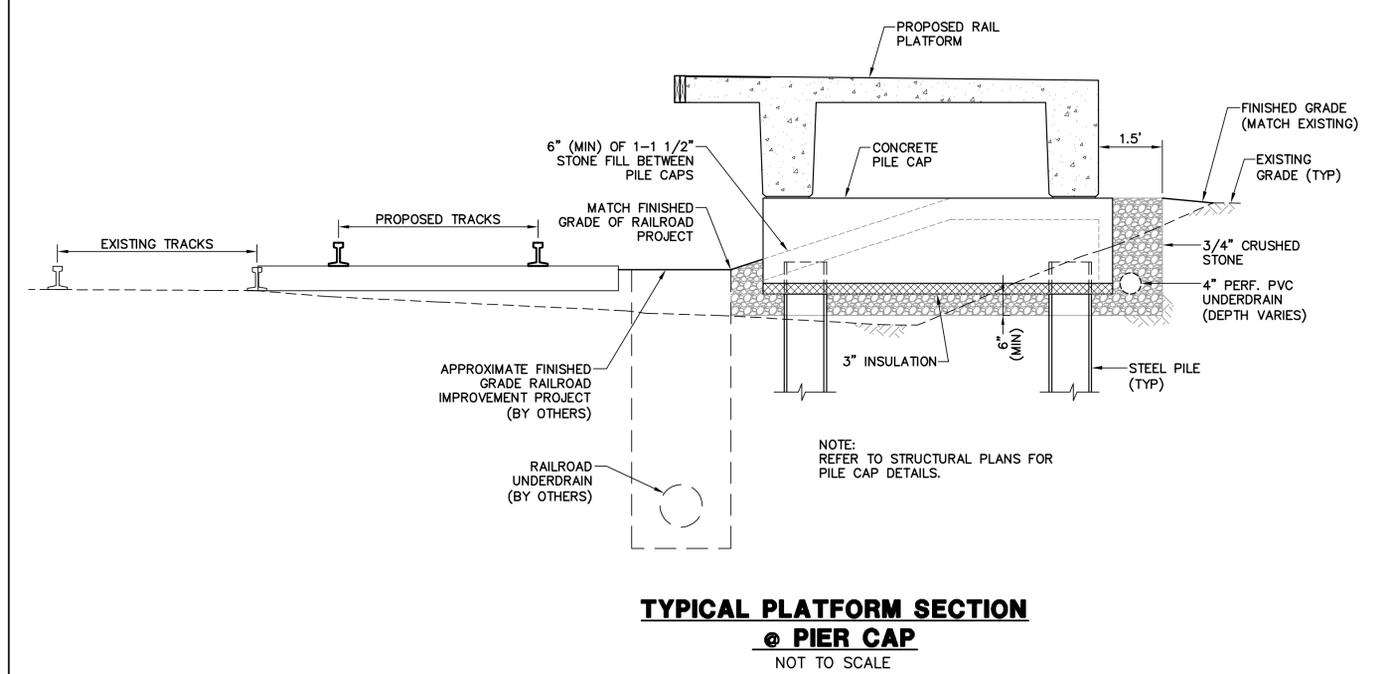
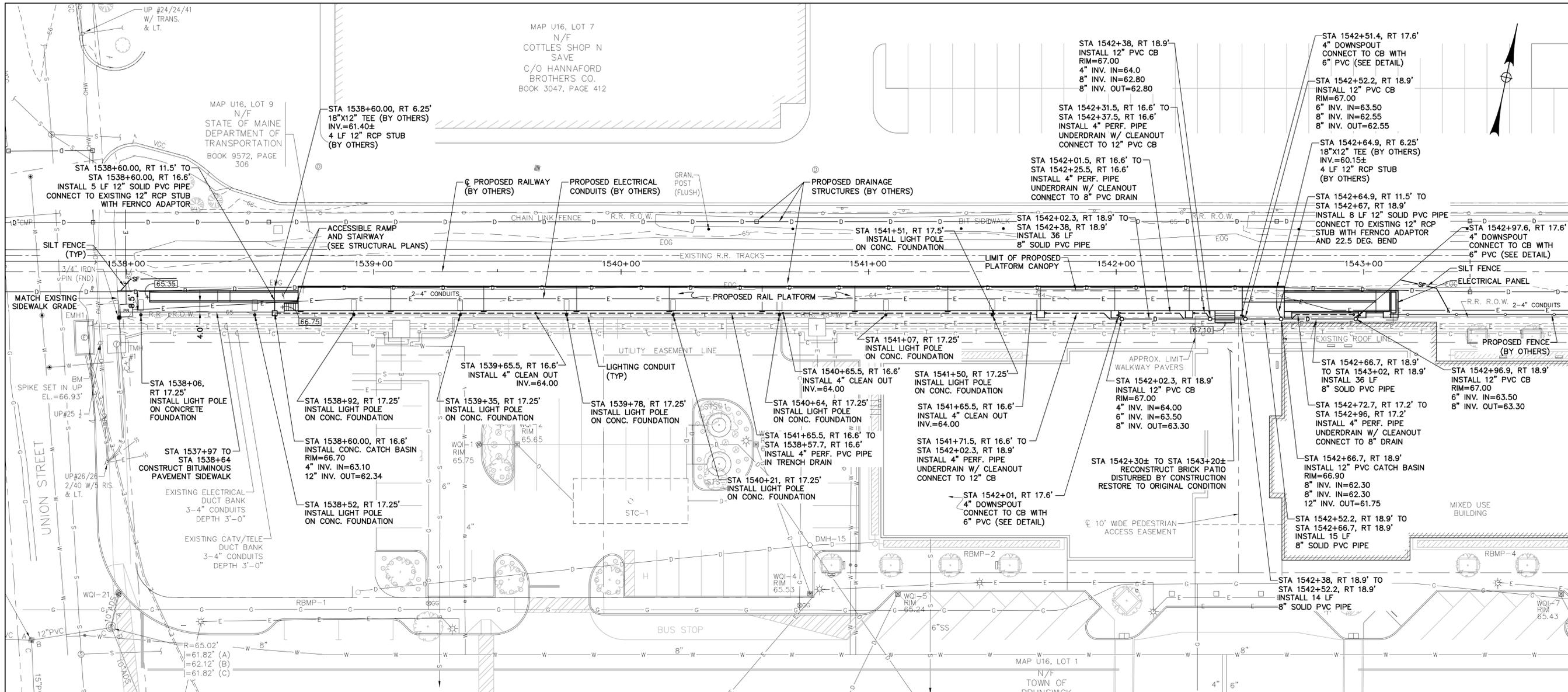
SHEET NUMBER
C-2

- NOTES:**
- EXISTING SITE INFORMATION FROM TOPOGRAPHIC SURVEY PROVIDED BY MDOT, SITE PLAN DOCUMENTS PROVIDED BY MDOT, AND VISUAL SITE INSPECTION. ALL UNDERGROUND UTILITY INFORMATION SHOULD BE CONSIDERED APPROXIMATE, BASED ON BEST INFORMATION AVAILABLE. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION.
 - PAN AM RAILWAYS HAS NOTED AN EXISTING 18" RCP AT STA 740+30±, WHICH IS NOT REFLECTED ON THE EXISTING SITE PLAN. THE CONTRACTOR SHALL VERIFY THIS POTENTIAL PIPE CROSSING PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL EVALUATE THE EXISTING STORM DRAINAGE SYSTEM WITHIN THE PROJECT AREA AND REPORT ANY DEFICIENCIES TO MDOT PRIOR TO CONSTRUCTION. REPAIR OR REPLACEMENT OF EXISTING STORM DRAINAGE ELEMENTS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.



McFarland Johnson
 53 REGIONAL DRIVE, CONCORD, NH 03301-5022
 PH: 603-225-2978 FAX: 603-225-0095

M:\1737102_10075_Plan\Drawings\15236-20-15236-30-15236-30.dwg, 1/22/2011, 11:55:09 AM



- NOTES:**
- CONTACT "DIG SAFE", 1-888-344-7233, PRIOR TO CONSTRUCTION.
 - SEE STRUCTURAL PLANS FOR LAYOUT AND ELEVATIONS OF RAIL PLATFORM AND RAMPS.
 - ALL AREAS DISTURBED BY SITE WORK SHALL BE FINISHED WITH 4" OF LOAM AND SEED UNLESS OTHERWISE NOTED.

MAP U16, LOT 7
N/F
COTTLES SHOP N
SAVE
C/O HANNAFORD
BROTHERS CO.
BOOK 3047, PAGE 412

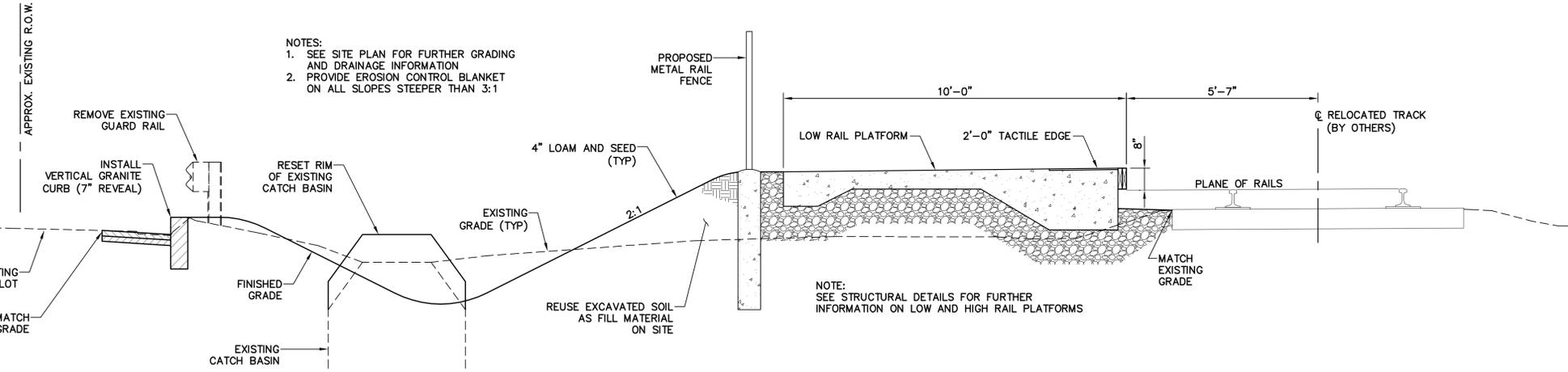
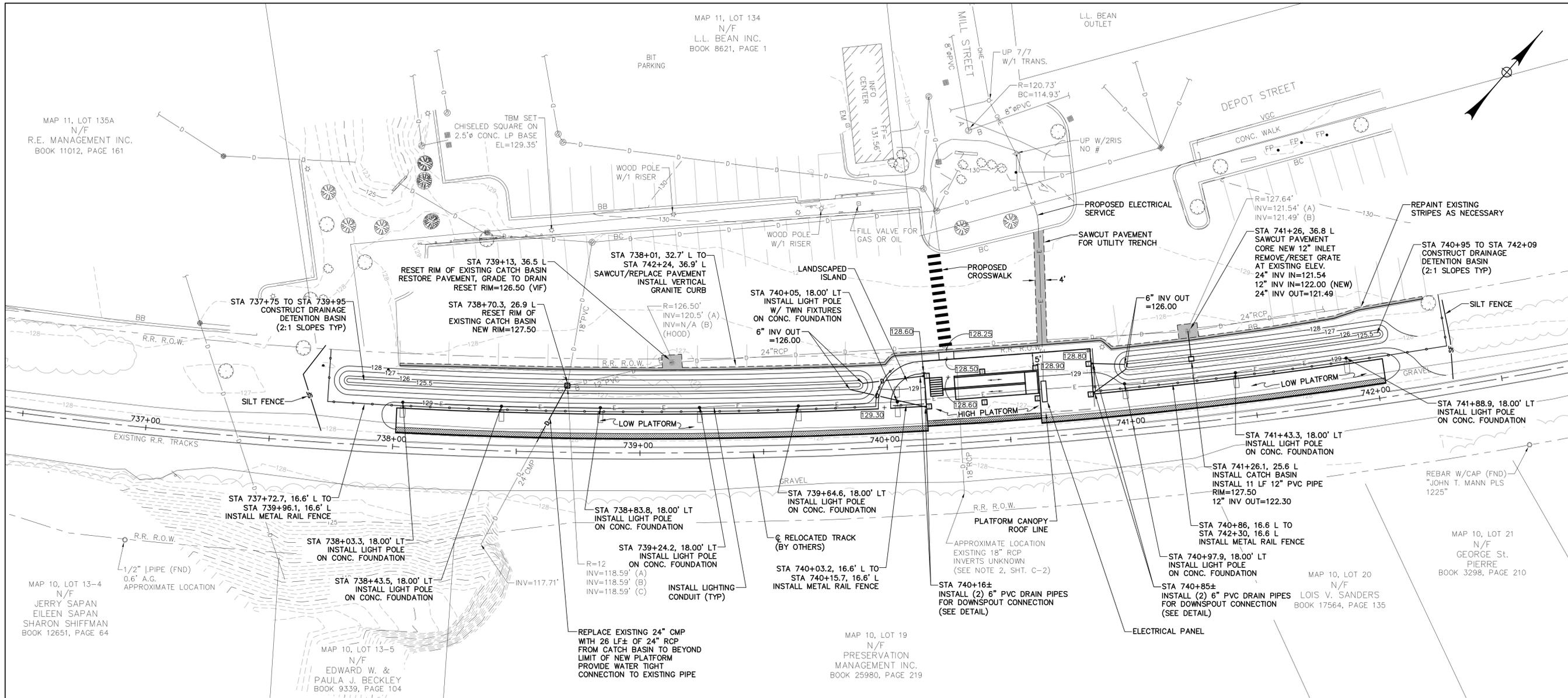
MAP U16, LOT 9
N/F
STATE OF MAINE
DEPARTMENT OF
TRANSPORTATION
BOOK 9572, PAGE
306

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
STATE PROJECT NUMBER 15236	
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)	
DATE	1/22/10
BY	TJB
PROJ. MANAGER	P. POTTLE
DESIGN-DETAILED	TJB
CHECKED-REVIEWED	CPB
DESIGN-DETAILED 2	CPB
DESIGN-DETAILED 3	CPB
REVISIONS 1	
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PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
SITE PLAN
- BRUNSWICK

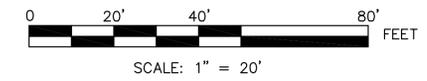
SHEET NUMBER
C-3

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-5022
PH: 603-225-2978 FAX: 603-225-0095



TYPICAL SECTION AT LOW PLATFORM
STA 738+70
 NOT TO SCALE

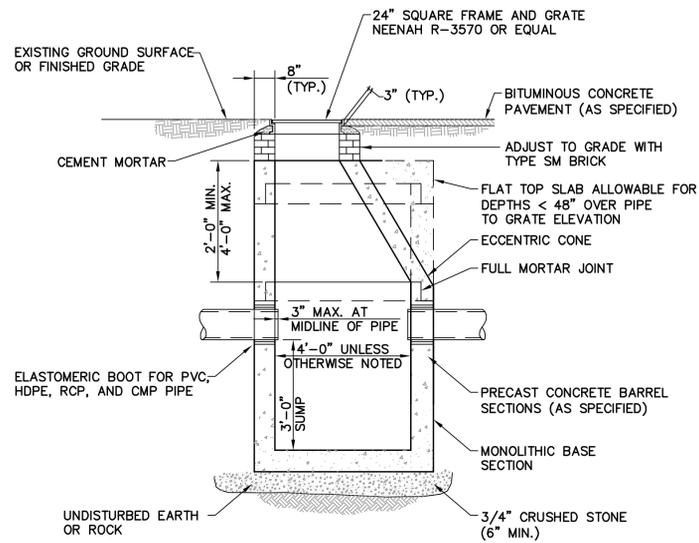
- NOTES:**
- CONTACT "DIG SAFE", 1-888-344-7233, PRIOR TO CONSTRUCTION.
 - SEE STRUCTURAL PLANS FOR LAYOUT AND ELEVATIONS OF RAIL PLATFORM AND RAMPS.
 - ALL AREAS DISTURBED BY SITE WORK SHALL BE FINISHED WITH 4" OF LOAM AND SEED UNLESS OTHERWISE NOTED.



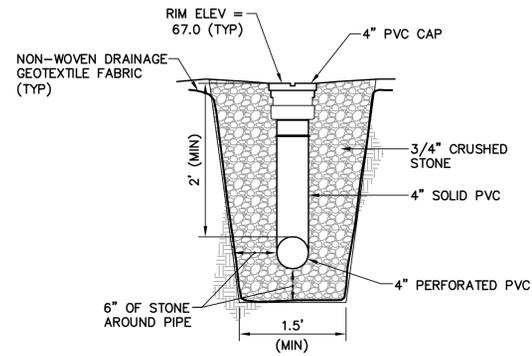
McFarland Johnson
 53 REGIONAL DRIVE, CONCORD, NH 03301-5022
 PH: 603-225-2978 FAX: 603-225-0095

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STATE PROJECT NUMBER 15236	
PIN 15236.20 (BRUNSWICK)		PIN 15236.30 (FREEPORT)	
		P.E. NUMBER 10075 DATE 1-18-20	
PROJ. MANAGER	P. POTTLE	DATE	1/22/20
DESIGN-DETAILED	TJB	BY	TJB
CHECKED-REVIEWED	CPB	DATE	1/22/20
DESIGN-DETAILED 2	CPB	DATE	1/22/20
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
PASSENGER RAIL PLATFORMS TOWNS OF BRUNSWICK AND FREEPORT CUMBERLAND COUNTY		SITE PLAN - FREEPORT	
SHEET NUMBER		C-4	

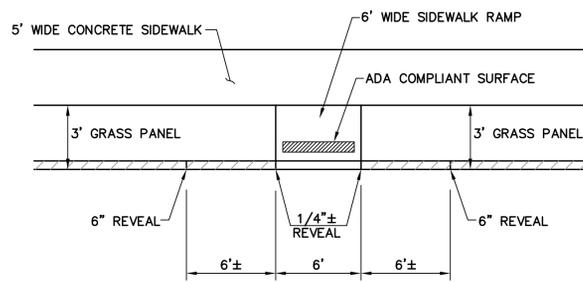
MAP 11, LOT 135A N/F R.E. MANAGEMENT INC. BOOK 11012, PAGE 161
 MAP 10, LOT 13-4 N/F JERRY SAPAN EILEEN SAPAN SHARON SHIFFMAN BOOK 12651, PAGE 64
 MAP 10, LOT 13-5 N/F EDWARD W. & PAULA J. BECKLEY BOOK 9339, PAGE 104
 MAP 11, LOT 134 N/F L.L. BEAN INC. BOOK 8621, PAGE 1
 MAP 10, LOT 21 N/F GEORGE ST. PIERRE BOOK 3298, PAGE 210
 MAP 10, LOT 20 N/F LOIS V. SANDERS BOOK 17564, PAGE 135
 MAP 10, LOT 19 N/F PRESERVATION MANAGEMENT INC. BOOK 25980, PAGE 219



CATCH BASIN
NOT TO SCALE



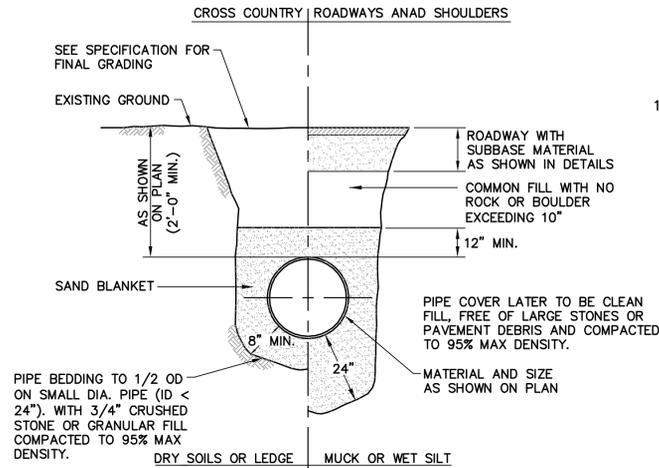
TRENCH DRAIN W/ CLEAN-OUT
NOT TO SCALE



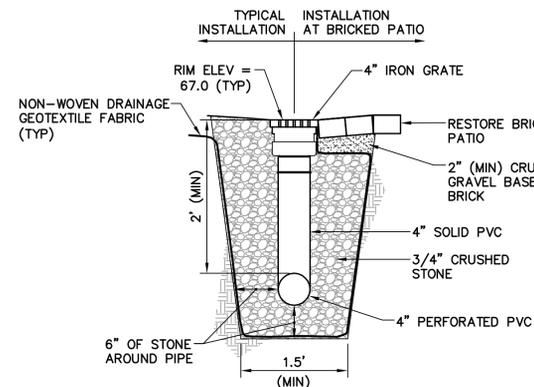
NOTES:

1. MAXIMUM SLOPE ON THE RAMP IS 12:1, MINIMUM SLOPE IS 16:1.
2. USE 8" CRUSHED GRAVEL UNDERNEATH CONCRETE SIDEWALK RAMP.
3. RAMP BASE TO BE CONSTRUCTED WITH 3500 PSI CONCRETE. THE SURFACE OF RAMP IS TO HAVE "ADA COMPLIANT" FINISH MATERIAL AND RAMP TO HAVE A MINIMUM TOTAL THICKNESS OF 6".

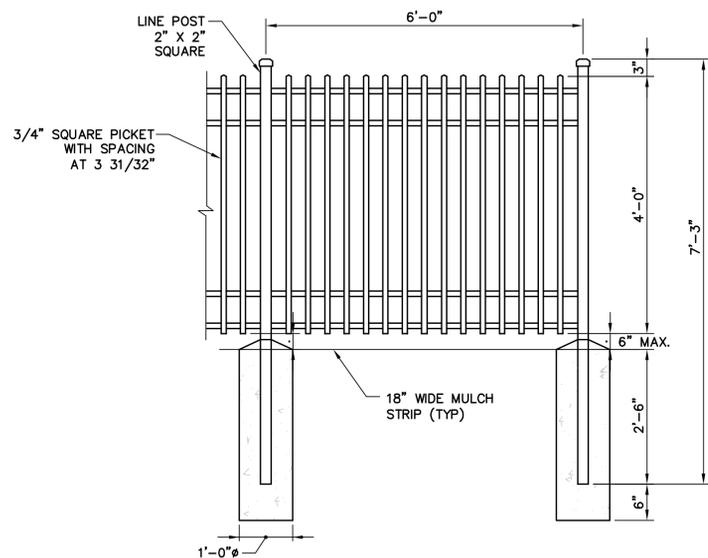
SIDEWALK RAMP
NOT TO SCALE



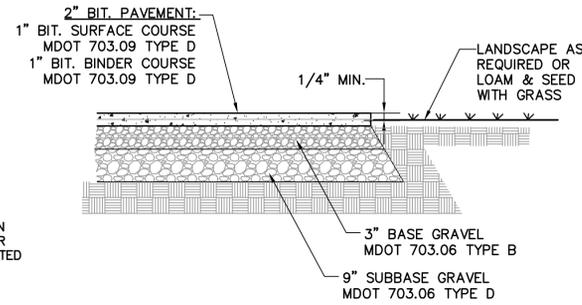
DRAIN PIPE TRENCH
NOT TO SCALE



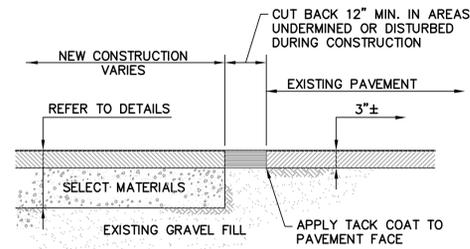
TRENCH DRAIN W/ GRATE @ BRICKED PATIO
NOT TO SCALE



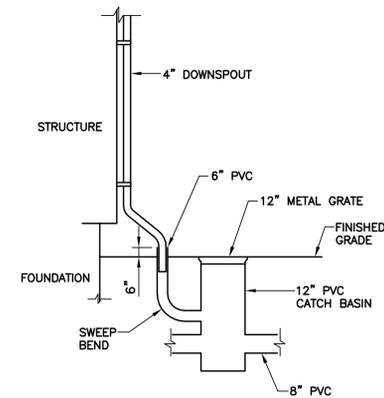
METAL RAIL FENCE
NOT TO SCALE



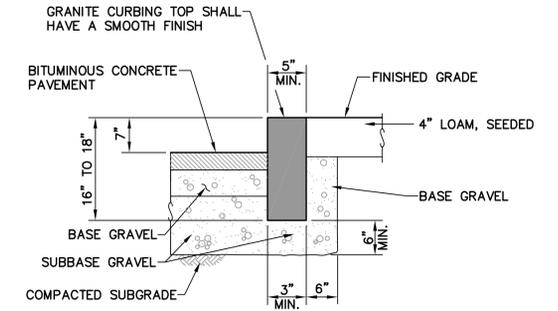
ASPHALT SIDEWALK
NOT TO SCALE



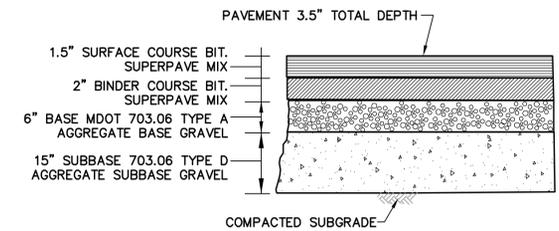
PAVEMENT SAW CUT
NOT TO SCALE



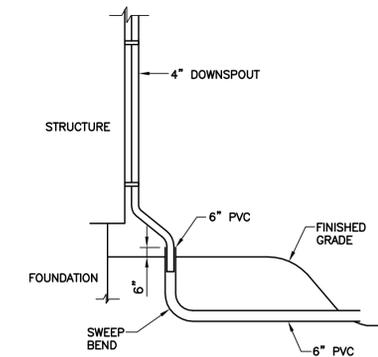
DOWNSPOUT CONNECTION TO CATCH BASIN
NOT TO SCALE



VERTICAL GRANITE CURB
NOT TO SCALE



TYPICAL PAVEMENT SECTION
NOT TO SCALE



DOWNSPOUT CONNECTION TO DRAINAGE PIPE
NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



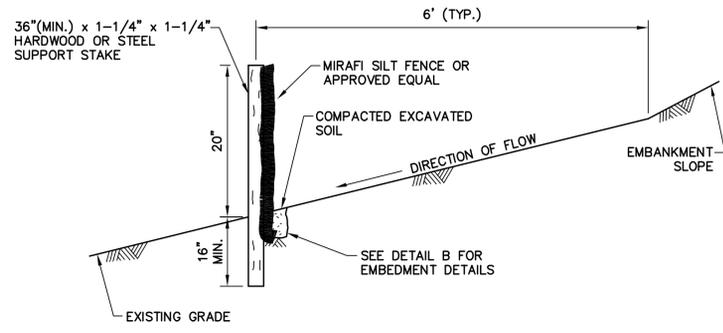
THOMAS T. KENDRICK
No. 10075
1/075
1-18-2011
DATE

DATE	BY	PROJ. MANAGER	P. POTTLE
12/22/10	TJB	DESIGN-DETAILED	DESIGN-DETAILED
12/22/10	CPB	CHECKED-REVIEWED	CHECKED-REVIEWED
		DESIGN-DETAILED 2	DESIGN-DETAILED 2
		DESIGN-DETAILED 3	DESIGN-DETAILED 3
		REVISIONS 1	REVISIONS 1
		REVISIONS 2	REVISIONS 2
		REVISIONS 3	REVISIONS 3
		FIELD CHANGES	FIELD CHANGES

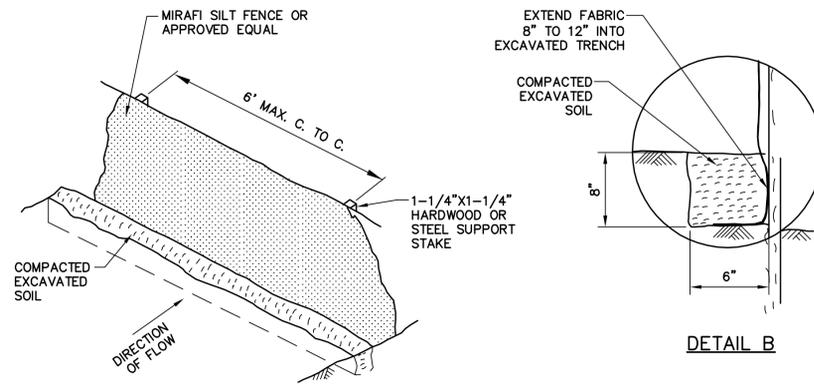
PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
TYPICAL SITE DETAILS

SHEET NUMBER

C-5



TOE OF SLOPE CONDITION



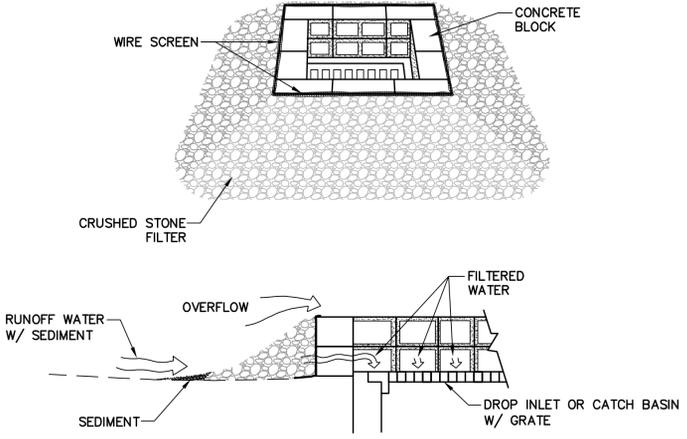
DETAIL B

NOTES:

1. FILTER FABRIC SILT FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF (1/2) THE ABOVE GROUND HEIGHT OF THE FENCE.
3. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

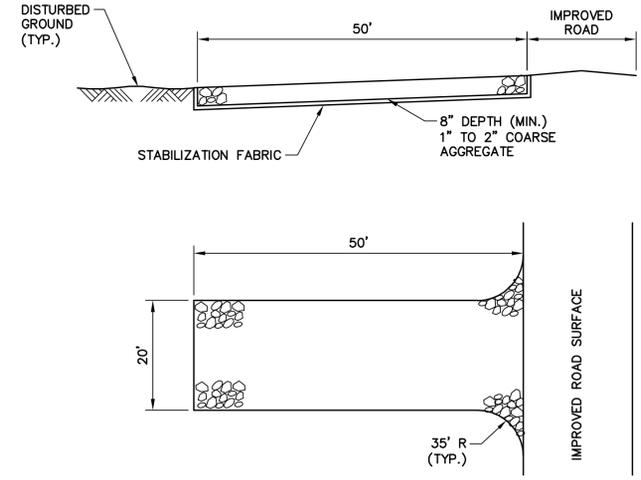
FILTER FABRIC SILT FENCE

NOT TO SCALE



BLOCK & GRAVEL DROP INLET/CATCH BASIN (SEDIMENT FILTER) INLET PROTECTION

NOT TO SCALE

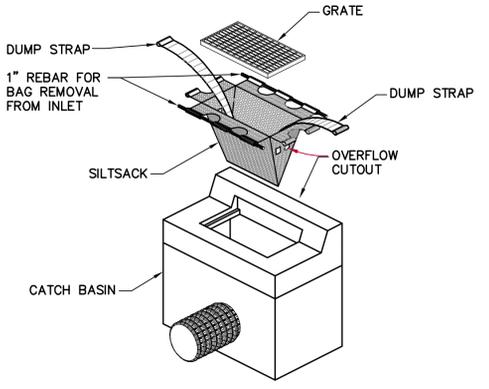


STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

NOTE:

STABILIZED CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING NEW ROCK AND REMOVING "CLOGGED" ROCK AS NECESSARY. A STOCKPILE OF ROCK MATERIAL WILL BE STORED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.



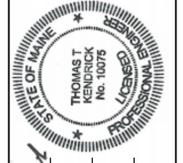
INLET SEDIMENT CONTROL DEVICE

NOT TO SCALE

GENERAL NOTES:

1. SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND SHALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED.
2. PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT AT THE LIMITS OF CLEARING.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



Signature: Thomas T. Kendrick
SIGNATURE: 10075
P.E. NUMBER: 1-18-2011
DATE

DATE	BY	P. POTTLE	PROJ. MANAGER
12/22/10	TJB	TJB	DESIGN-DETAILED
12/22/10	CPB	CPB	CHECKED-REVIEWED
			DESIGN-2-DETAILED 2
			DESIGN-3-DETAILED 3
			REVISIONS 1
			REVISIONS 2
			REVISIONS 3
			FIELD CHANGES

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
EROSION CONTROL DETAILS

SHEET NUMBER

C-6

STRUCTURAL NOTES

- 1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE AND ELECTRICAL DRAWINGS AND THE SPECIFICATIONS...
2. ALL STRUCTURAL STEEL WORK SHALL, UNLESS OTHERWISE INDICATED, CONFORM TO THE MANUAL OF STEEL CONSTRUCTION...
3. ALL WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE...
4. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING: STRUCTURAL SHAPES, BOLTS, COLUMN ANCHOR BOLTS, STRUCTURAL TUBING...
5. ALL SHOP CONNECTIONS SHALL BE BOLTED OR WELDED...
6. TIGHTEN ALL BOLTS TO ACHIEVE THE MINIMUM FASTENER TENSION SPECIFIED IN TABLE 4 OF RCSC'S SPECIFICATION...
7. ALL NON-EXPOSED STRUCTURAL STEEL SHALL BE SHOP PAINTED...
8. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY GUYING AND BRACING...
9. THERE WILL BE NO FIELD BURNING, CUTTING OR OTHER ALTERATIONS...
10. ALL ROOF DECKING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS...
11. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW...
12. ALL STRUCTURAL STEEL FABRICATION AND ERECTION MUST COMPLY WITH THE LATEST REQUIREMENTS OF OSHA 29 CFR PART 1926.

ROOF DECK

- 1. ROOF DECK SHALL BE OF TYPE, GAUGE, FINISH AND MANUFACTURER AS INDICATED ON THE DRAWINGS...
2. COMPLY WITH PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS...
3. MATERIALS:
A. STEEL FOR PAINTED STEEL DECK UNITS...
4. FINISHES:
A. SHOP COAT OF MANUFACTURER'S STANDARD PRIMER PAINT...
5. INSTALLATION:
A. STEEL DECK SHALL BE ERECTED AND FASTENED...
B. POWDER ACTUATED OR PNEUMATICALLY-DRIVEN FASTENERS...
C. EXTREME CAUTION MUST BE USED...
D. UPLIFT LOADING...
E. ALL EDGES OF THE DECKING SHALL BE PROPERLY SUPPORTED...
6. ACCESSORIES:
A. RIDGE AND VALLEY PLATES AND STEEL CANT STRIPS...
B. PROVIDE ALL OTHER ACCESSORIES...
7. SHOP DRAWINGS: SUBMIT DETAILED DRAWINGS SHOWING LAYOUT, TYPE, GAUGE AND MANUFACTURER OF DECKING...

SAFETY AND PROTECTION

CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK...
1. ALL EMPLOYEES ON THE WORK AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY...
2. ALL THE WORK AND ALL MATERIALS OR EQUIPMENT TO BE INCORPORATED THEREIN...
3. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES...

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STANDARDS (SPECIFICALLY INCLUDING OSHA AND ANY OTHER STATE ADOPTED OSHA PROGRAM), LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS...

CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED.

DESIGN LOADS

CODE: IBC 2009, ASCE 7-05
FREEPORT ROOF LOAD: Pf = 42 PSF PLUS UNBALANCED, DRIFT AND SLIDING AS REQ'D
Ce = 1.0, I = 1.0, Ct = 1.2, DEAD LOAD = 22 PSF
FREEPORT PLATFORM LOAD: LIVE LOAD = 150 PSF
BRUNSWICK ROOF LOAD: Pf = 44 PSF PLUS UNBALANCED, DRIFT AND SLIDING AS REQ'D
Ce = 1.0, I = 1.0, Ct = 1.2, DEAD LOAD = 22 PSF
BRUNSWICK PLATFORM LOAD: LIVE LOAD = 150 PSF
WIND LOAD: BASIC WIND SPEED = 100 MPH, Iw = 1.0, EXPOSURE = C

FREEPORT SEISMIC CRITERIA: Sa = .306g, S1 = .077g, SDS = .317g, SD1 = .123g, OCCUPANCY CATEGORY = II, SEISMIC DESIGN CATEGORY = B, SITE CLASS = D, SEISMIC RESISTING SYSTEM = STEEL MOMENT FRAME, NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE, DESIGN BASE SHEAR = 7.75K, Cs = 1.06, R = 3, IE = 1.0

BRUNSWICK SEISMIC CRITERIA: Sa = .294g, S1 = .075g, SDS = .463g, SD1 = .175g, OCCUPANCY CATEGORY = II, SEISMIC DESIGN CATEGORY = C, SITE CLASS = E, SEISMIC RESISTING SYSTEM = INVERTED PENDULUM STRUCTURE, NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE, DESIGN BASE SHEAR = 16.5K ON EACH 37.5' DOUBLE TEE, Cs = .232, R = 2, IE = 1.0

COLD WEATHER CONSTRUCTION PROCEDURES

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTINUOUSLY PROTECT SOILS, CONCRETE AND OTHER BUILDING MATERIALS FROM DAMAGE DUE TO COLD TEMPERATURES...
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ANY DAMAGED OR DEFECTIVE WORK...
3. ALL PROTECTIVE AND CORRECTIVE WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

WOOD TRUSS NOTES

- 1. ALL WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING CODES AND REGULATIONS:
A. "TIMBER CONSTRUCTION MANUAL" BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
B. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
C. "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES" BY THE TRUSS PLATE INSTITUTE.
2. CHORD MEMBERS SHALL BE:
A. 2X6 MINIMUM SIZE.
B. NO. 2 GRADE S-P-F OR BETTER.
WEB MEMBERS SHALL BE:
A. 2X4 MINIMUM SIZE.
B. NO. 2 GRADE S-P-F OR BETTER.
3. ALL LUMBER SHALL BE STRAIGHT AND NEW, IN SOUND CONDITION, SURFACED DRIED WITH A MAXIMUM MOISTURE CONTENT OF 19%.
4. THE TRUSS FABRICATOR SHALL DESIGN THE TRUSSES BASED ON THE DESIGN LOADS AND THE CONFIGURATION GIVEN ON PLANS...
5. PREFABRICATED WOOD TRUSSES SHALL BE FABRICATED IN AN ENCLOSED STRUCTURE UNDER CONTROLLED CONDITIONS...
6. WOOD TRUSSES SHALL BE HANDLED, INSTALLED AND BRACED IN ACCORDANCE WITH BCSI 2008: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES...
7. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY BRACING AS RECOMMENDED BY BCSI 2008: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES...
8. DESIGN LOADS:
FREEPORT: TOP CHORD SNOW = 42 PSF PLUS UNBALANCED, DRIFT AND SLIDING AS REQ'D, TOP CHORD DEAD LOAD = 10 PSF, BOTTOM CHORD DEAD LOAD = 12 PSF

CONCRETE NOTES

- 1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SITE AND ELECTRICAL DRAWINGS AND THE SPECIFICATIONS...
2. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
3. ALL CONCRETE SHALL BE CONCRETE CLASS (A) ACCORDING TO THE 2002 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS:
DESIGN MIX - SUBMIT A CURRENT (MAXIMUM 18 MONTHS OLD) DESIGN MIX OF THE EXACT SAME MIX TO BE USED ON THE PROJECT...
4. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60 EXCEPT AS NOTED OTHERWISE...
5. LAP ALL BARS 48 DIAMETERS MINIMUM AT SPLICES UNLESS INDICATED OTHERWISE...
6. REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING POURING OPERATIONS...
7. WHERE CONTINUOUS BARS ARE CALLED FOR, INDICATED OR REQUIRED, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS...
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
CONCRETE CAST AGAINST EARTH FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER 1 1/2", #6 AND LARGER 2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS AND WALLS 3/4", BEAMS AND COLUMNS 1 1/2"
9. THE CONCRETE CONTRACTOR SHALL INSTALL (OR GIVE OTHER TRADES AMPLE OPPORTUNITY TO INSTALL) ALL ANCHORS, BOLTS, PLATE NAILERS, SLOTS, CHASES, PIPE SLEEVES, ETC. AS REQUIRED BY OTHER TRADES...
10. UNLESS OTHERWISE NOTED, ALL PILES AND PIERS SHALL BE CENTERED UNDER SUPPORTED MEMBERS.
11. CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ALL CONCRETE SLAB DEFECTS SUCH AS CURLING OR CRACKING...
12. CHAMFER EDGES OF EXPOSED BEAMS AND COLUMNS.
13. CONCRETE TEMPERATURE DURING THE FIRST SEVEN DAYS SHALL BE MAINTAINED BETWEEN 50 DEG. F AND 90 DEG. F.
14. CURING:
A. HORIZONTAL SURFACES SHALL BE KEPT CONTINUOUSLY MOIST FOR A MINIMUM OF SEVEN DAYS.
B. VERTICAL SURFACES SHALL RECEIVE TWO COATS (ONE AT TIME OF STRIPPING AND ANOTHER THREE DAYS LATER) OF AN APPROVED NON-TOXIC CURING COMPOUND.
15. CONTRACTOR TO DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING, SHORING AND BRACING NECESSARY TO SAFELY COMPLETE THE CONSTRUCTION.
16. SHOP DRAWINGS PREPARED IN ACCORDANCE WITH ACI STANDARDS WILL BE REQUIRED FROM THE CONTRACTOR FOR REINFORCING STEEL PRIOR TO CONSTRUCTION...

PRECAST CONCRETE NOTES

- 1. ALL PRECAST CONCRETE WORK SHALL CONFORM TO CHAPTER 16 OF ACI 318-BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, CHAPTER 13 OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND APPLICABLE PUBLICATIONS OF THE PORTLAND CEMENT ASSOCIATION.
2. PRECAST CONCRETE SHALL BE CONCRETE CLASS (P) ACCORDING TO THE 2002 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS WITH A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS.
3. EXPOSED SURFACES SHALL BE FINISHED AS INDICATED ON THE DRAWINGS.
4. PROVIDE ADDITIONAL HOOKS, ANCHORS AND REINFORCING AS REQUIRED FOR TRANSPORTATION AND ERECTION PURPOSES.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STATE PROJECT NUMBER 15236

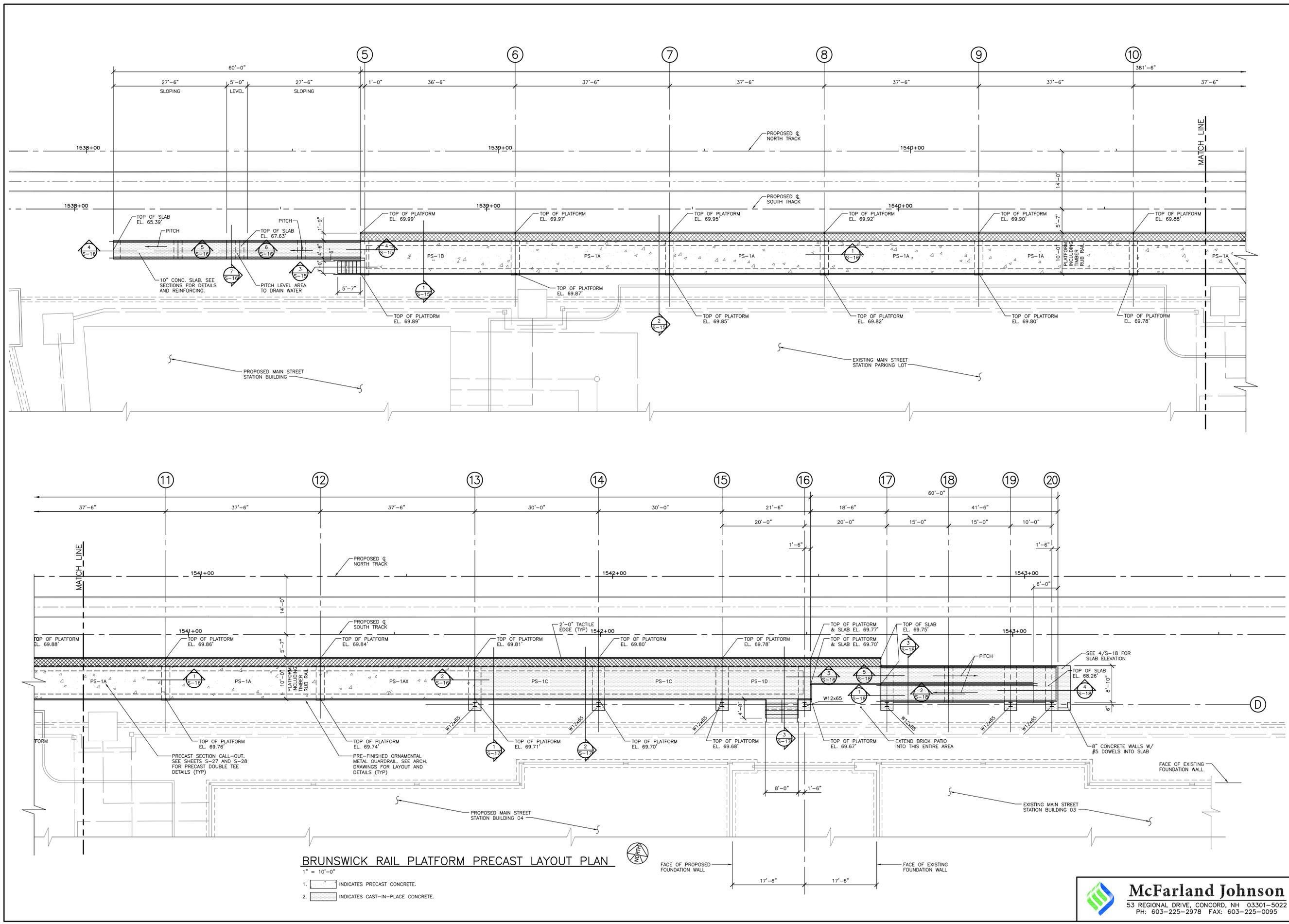


Signature: Thomas T. Johnson, No. 10075
P.E. NUMBER: 10075
DATE: 1-18-2011

Table with columns: PROJ. MANAGER, P. ROTTLE, BY, DATE, DESIGN-DETAILED, CHECKED/REVIEWED, DESIGN-FOOTNOTED, REVISIONS 1-3, FIELD CHANGES.

PASSENGER RAIL PLATFORMS TOWNS OF BRUNSWICK AND FREEPORT CUMBERLAND COUNTY GENERAL NOTES - BRUNSWICK & FREEPORT

SHEET NUMBER



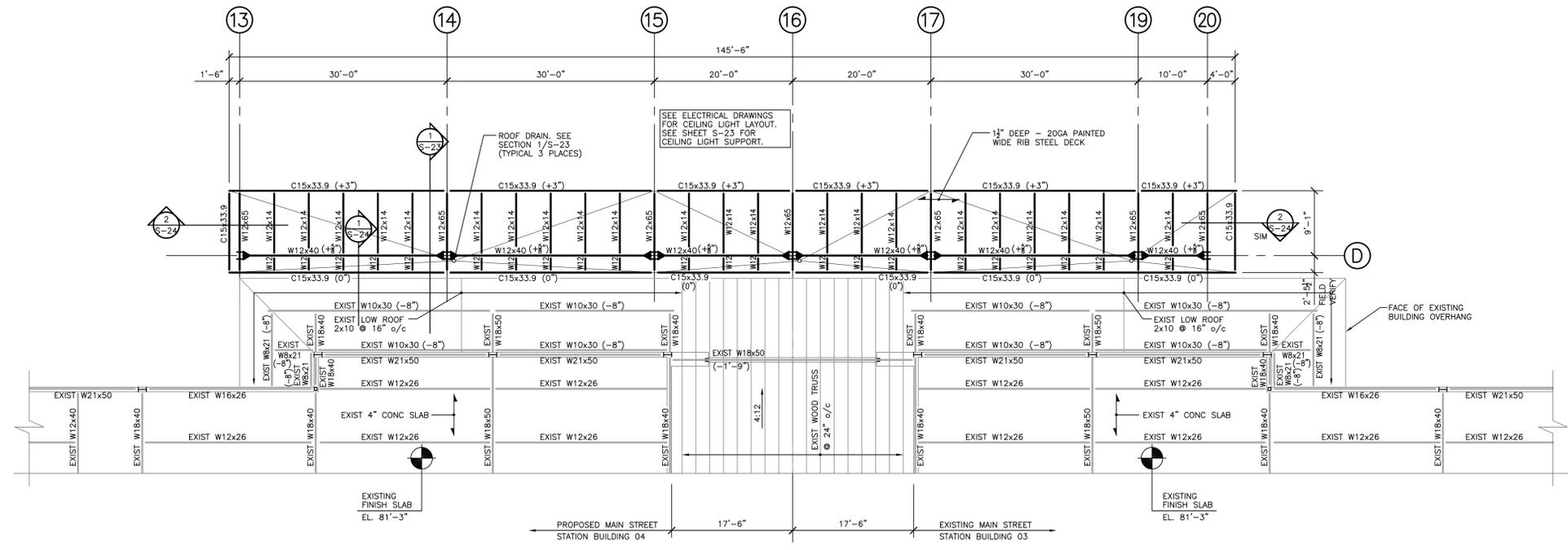
BRUNSWICK RAIL PLATFORM PRECAST LAYOUT PLAN

- 1" = 10'-0"
- INDICATES PRECAST CONCRETE.
 - INDICATES CAST-IN-PLACE CONCRETE.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
STATE PROJECT NUMBER 15236	
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)	
	THOMAS T. THOMAS SIGNATURE 10075 P.E. NUMBER 1-18-2011 DATE
P. ROTTLE PROJECT MANAGER	BY: C.E.P. 1/22/10 C.E.P. 1/22/10 DATE
DESIGN/DETAILS CHECKED/REVIEWED DESIGN/DETAILS REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	SHEET NUMBER <div style="font-size: 2em; font-weight: bold; text-align: center;">S-7</div>
PASSENGER RAIL PLATFORMS TOWNS OF BRUNSWICK AND FREEPORT CUMBERLAND COUNTY PRECAST DOUBLE TEE LAYOUT - BRUNSWICK	



McFarland Johnson
 53 REGIONAL DRIVE, CONCORD, NH 03301-5022
 PH: 603-225-2978 FAX: 603-225-0095



**BRUNSWICK RAIL PLATFORM ROOF FRAMING PLAN &
EXISTING BUILDINGS LOW ROOF & SECOND FLOOR FRAMING PLANS**

- 1" = 10'-0"
- TOP OF EXISTING STEEL EL. 80'-11" UNLESS NOTED (±).
 - TOP OF NEW STEEL EL. 81'-0" UNLESS NOTED (±).
 - ALL BEAMS NOTED AS W12 SHALL BE W12x14.
 - ▶ - INDICATES MOMENT CONNECTION (TYP).
 - ALL EXISTING ELEVATIONS SHALL BE FIELD VERIFIED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236

PROFESSIONAL ENGINEER
THOMAS T. THOMAS
No. 10075
1-18-2011
DATE

PROJ. MANAGER	P. POTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	12/29/10
CHECKED/REVIEWED	PCB	CEP	12/29/10
DESIGN/DETAILED	3		
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REVISIONS 2			
REVISIONS 3			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
ROOF FRAMING PLAN
- BRUNSWICK

SHEET NUMBER

S-8



FREEPORT RAIL PLATFORM PILE PLAN
 1" = 10'-0"

1. THE AVERAGE PILE DEPTH IS ESTIMATED TO BE 39.8 FT. PILES SHALL BE DRIVEN TO REFUSAL.
2. PILES SHALL BE HP12x53 WITH A MAXIMUM AXIAL LOAD OF 108.7 KIPS AND LATERAL LOAD OF 3.8 KIPS.
3. INDICATES APPROXIMATE LOCATION OF TEST BORING DRILLED BY MAINE TEST BORINGS UNDER THE DIRECTION OF HALEY & ALDRICH, INC. IN OCTOBER 2009.
4. TOP OF PILE CAPS AT RAMP AND STAIR LOCATIONS MAY NEED TO BE ADJUSTED BASED ON SITE ELEVATION VARIATIONS.
5. SEE SHEET S-10 FOR COLUMNS LOCATIONS. ONLY PILE LOCATIONS SHOWN ON THIS SHEET.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236



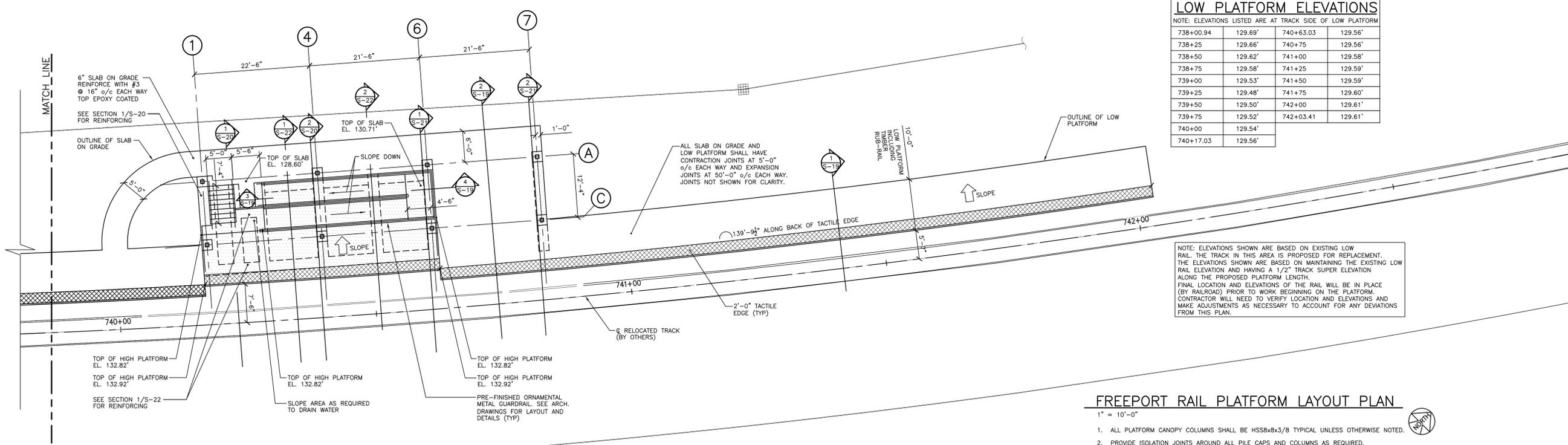
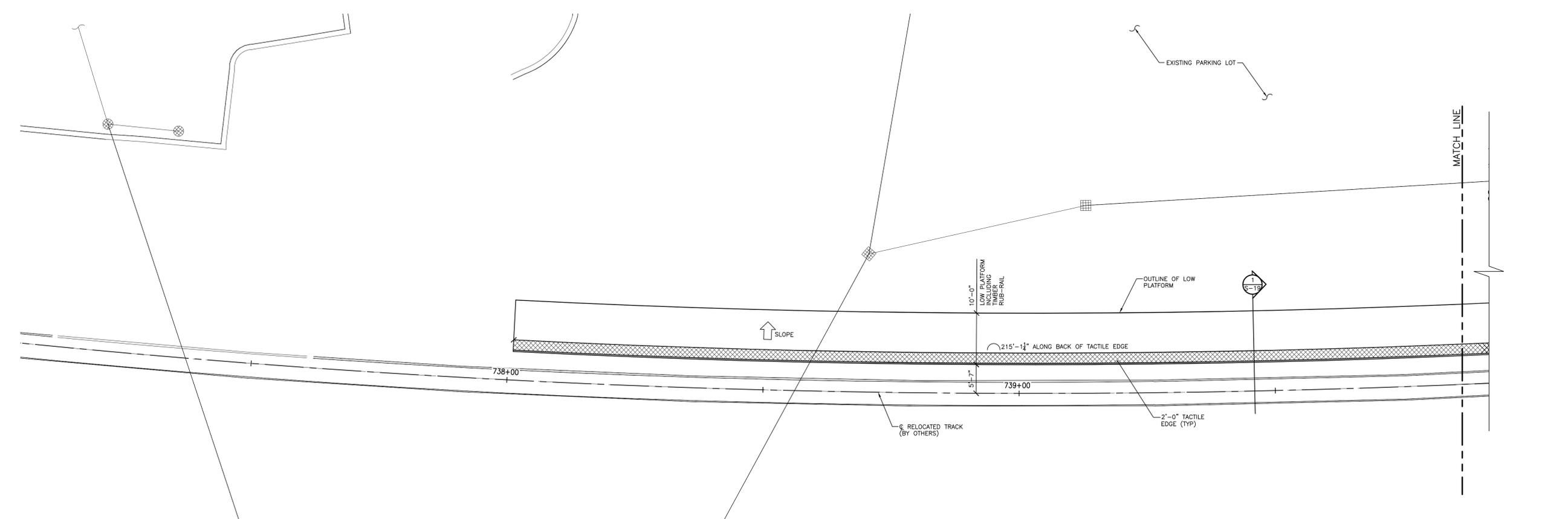
Thomas T. No. 10075
 SIGNATURE
 10075
 P.E. NUMBER
 1-18-2011
 DATE

PROJ. MANAGER	P. POTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	12/29/10
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PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 FOUNDATION & PILE PLAN
 - FREEPORT

SHEET NUMBER

S-9



LOW PLATFORM ELEVATIONS			
NOTE: ELEVATIONS LISTED ARE AT TRACK SIDE OF LOW PLATFORM			
738+00.94	129.69'	740+63.03	129.56'
738+25	129.66'	740+75	129.56'
738+50	129.62'	741+00	129.58'
738+75	129.58'	741+25	129.59'
739+00	129.53'	741+50	129.59'
739+25	129.48'	741+75	129.60'
739+50	129.50'	742+00	129.61'
739+75	129.52'	742+03.41	129.61'
740+00	129.54'		
740+17.03	129.56'		

NOTE: ELEVATIONS SHOWN ARE BASED ON EXISTING LOW RAIL. THE TRACK IN THIS AREA IS PROPOSED FOR REPLACEMENT. THE ELEVATIONS SHOWN ARE BASED ON MAINTAINING THE EXISTING LOW RAIL ELEVATION AND HAVING A 1/2" TRACK SUPER ELEVATION ALONG THE PROPOSED PLATFORM LENGTH. FINAL LOCATION AND ELEVATIONS OF THE RAIL WILL BE IN PLACE (BY RAILROAD) PRIOR TO WORK BEGINNING ON THE PLATFORM. CONTRACTOR WILL NEED TO VERIFY LOCATION AND ELEVATIONS AND MAKE ADJUSTMENTS AS NECESSARY TO ACCOUNT FOR ANY DEVIATIONS FROM THIS PLAN.

FREEPORT RAIL PLATFORM LAYOUT PLAN
1" = 10'-0"

- ALL PLATFORM CANOPY COLUMNS SHALL BE HSS8x8x3/8 TYPICAL UNLESS OTHERWISE NOTED.
- PROVIDE ISOLATION JOINTS AROUND ALL PILE CAPS AND COLUMNS AS REQUIRED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236

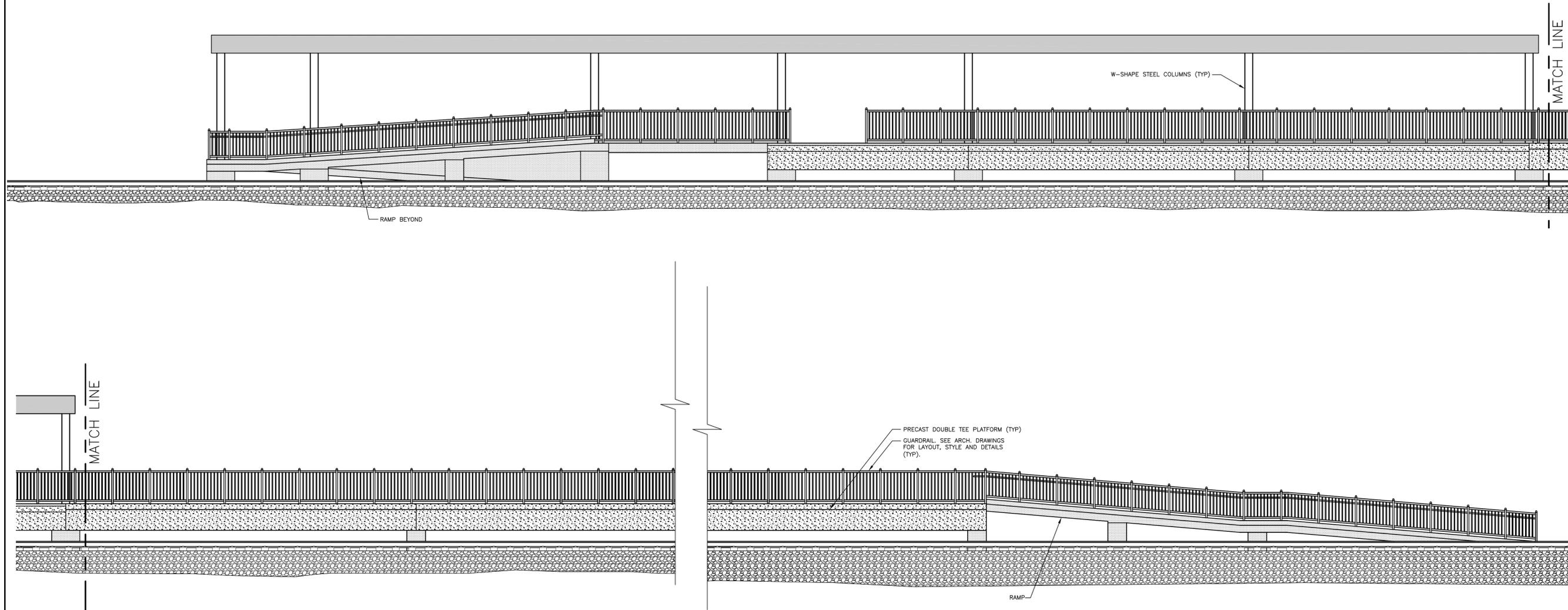
THOMAS T. McFarland
No. 10075
1-18-2011
DATE

PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	1/22/10
CHECKED/REVIEWED	PCB	CEP	1/22/10
DESIGN/DETAILED	PCB		
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REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
PLATFORM LAYOUT
- FREEPORT

SHEET NUMBER

S-10



BRUNSWICK RAIL PLATFORM ELEVATION
 3/16" = 1'-0" (LOOKING SOUTH FROM TRACKS)

1. STAIRS AT EACH END NOT SHOWN FOR CLARITY.
2. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



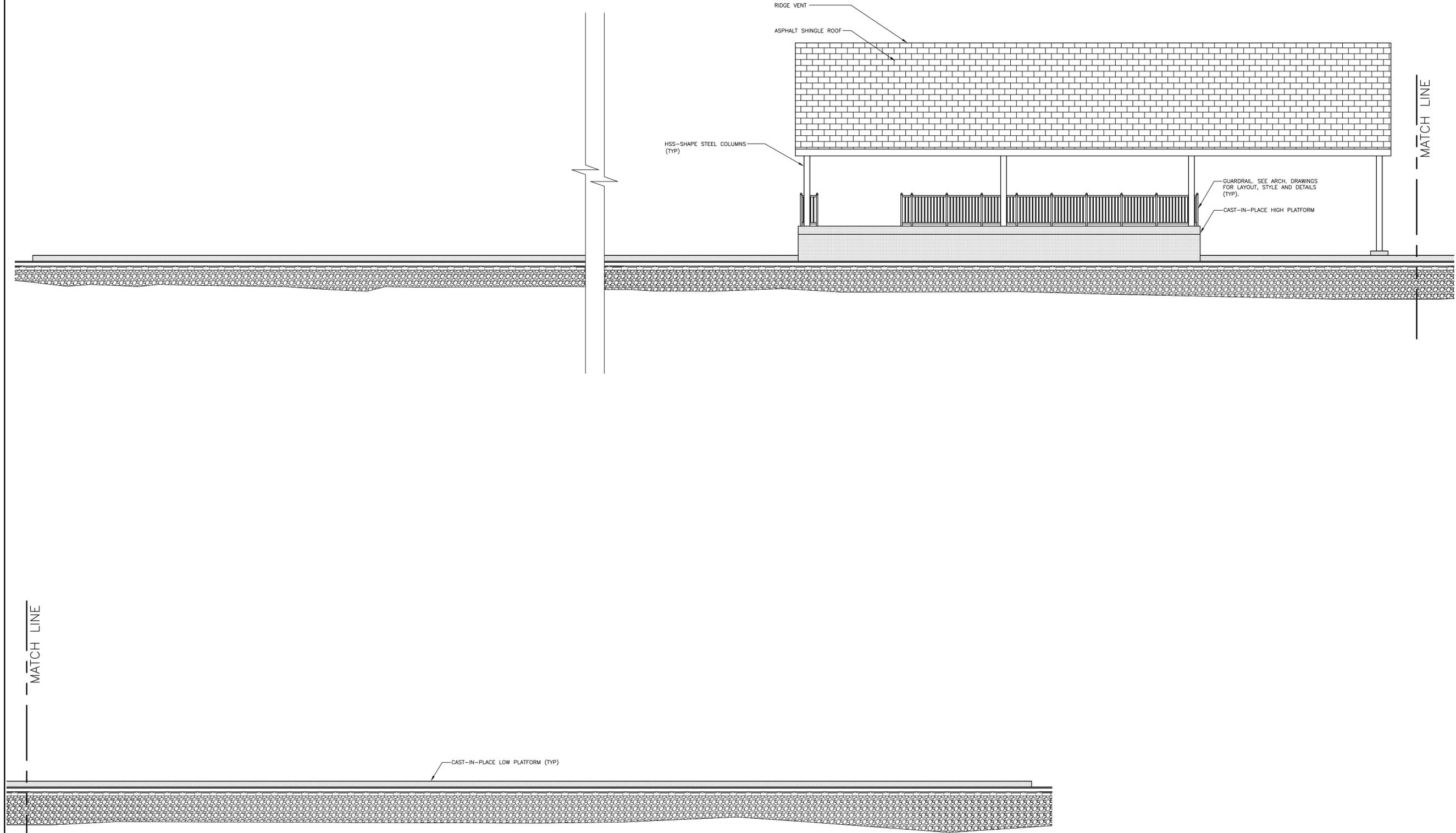
Thomas T. No. 10075
 SIGNATURE
 10075
 P.E. NUMBER
 1-18-2011
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PROJ. MANAGER	P. POTTLE	BY	DATE
DESIGN-DETAILED	PCB	CEP	12/29/10
CHECKED-REVIEWED	PCB	CEP	12/29/10
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DESIGN-DETAILED	3		
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FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
STEEL FRAME ELEVATION
- BRUNSWICK

SHEET NUMBER

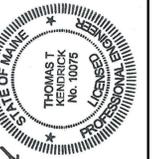
S-12



FREEPORT RAIL PLATFORM ELEVATION
 3/16" = 1'-0" (LOOKING NORTH FROM TRACKS)

1. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



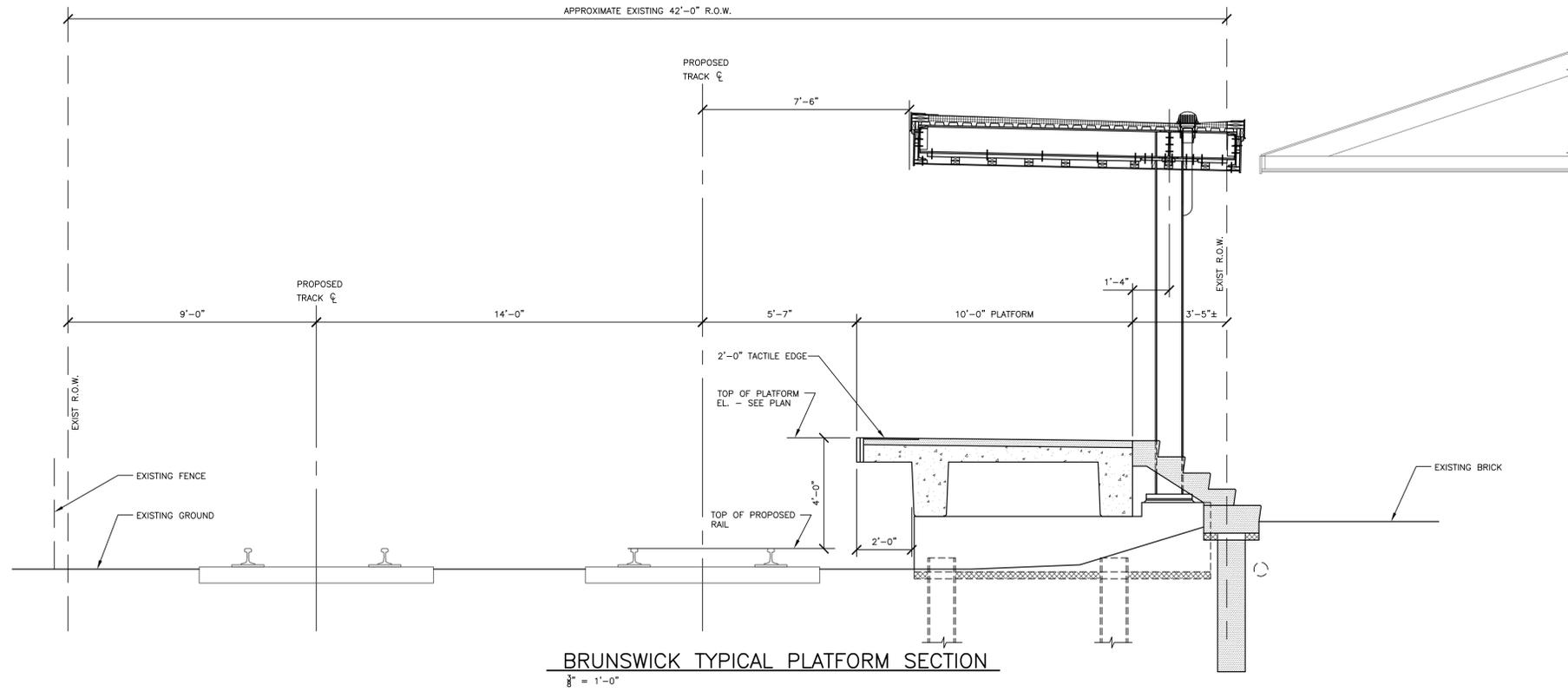
Thomas T. No. 10075
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PROJ. MANAGER	P. POTTLE	BY	DATE
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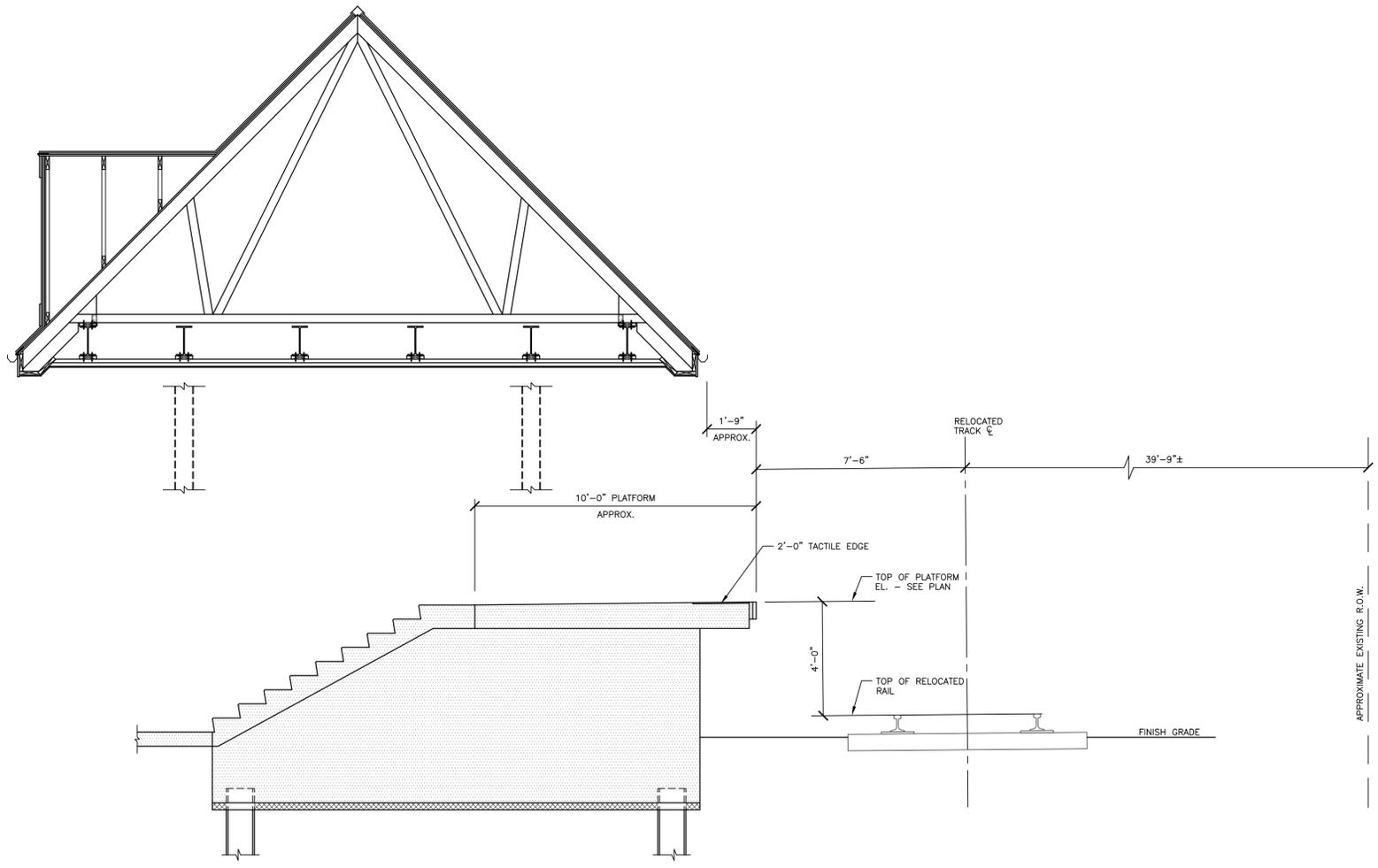
PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 STEEL FRAME ELEVATION
 - FREEPORT

SHEET NUMBER

S-13



BRUNSWICK TYPICAL PLATFORM SECTION
 $\frac{3}{8}'' = 1'-0''$



FREEPORT TYPICAL PLATFORM SECTION
 $\frac{3}{8}'' = 1'-0''$

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

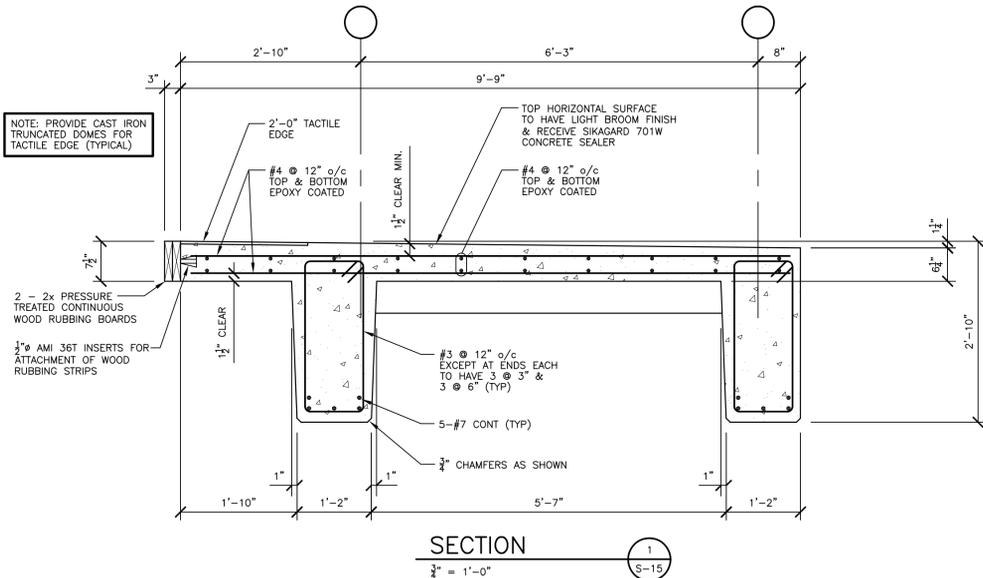
THOMAS T. THOMAS
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REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 GENERAL PLATFORM LAYOUT
 - BRUNSWICK & FREEPORT

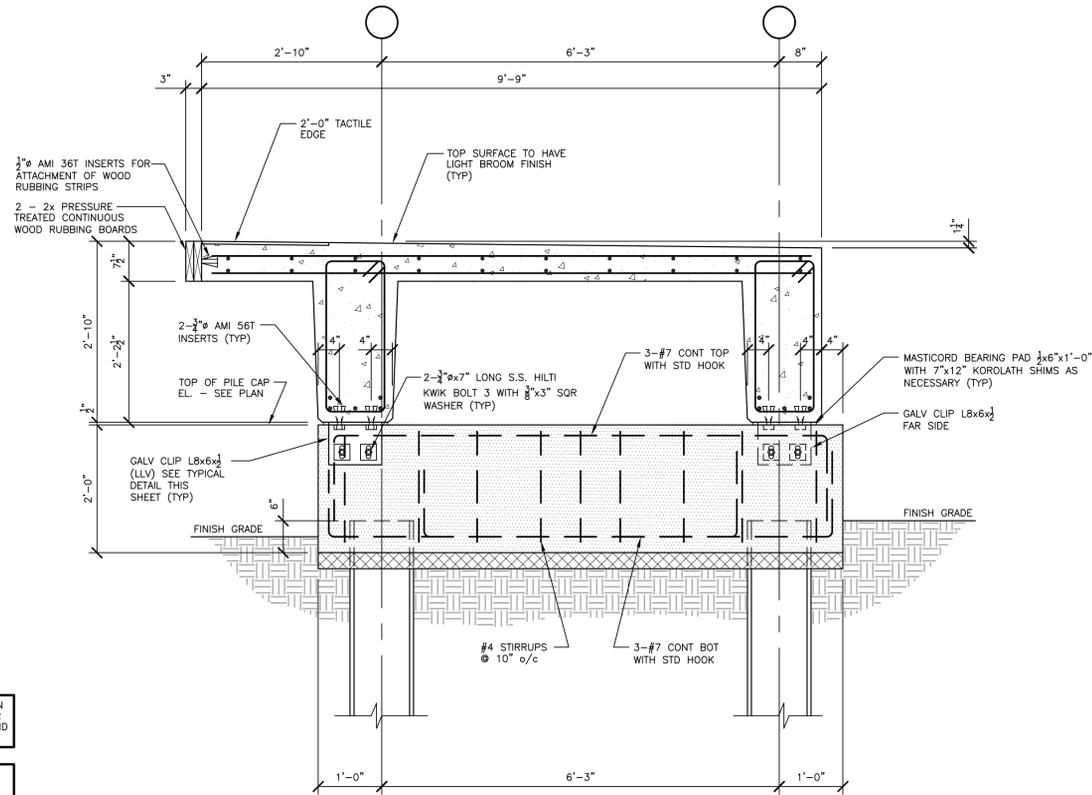
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S-14



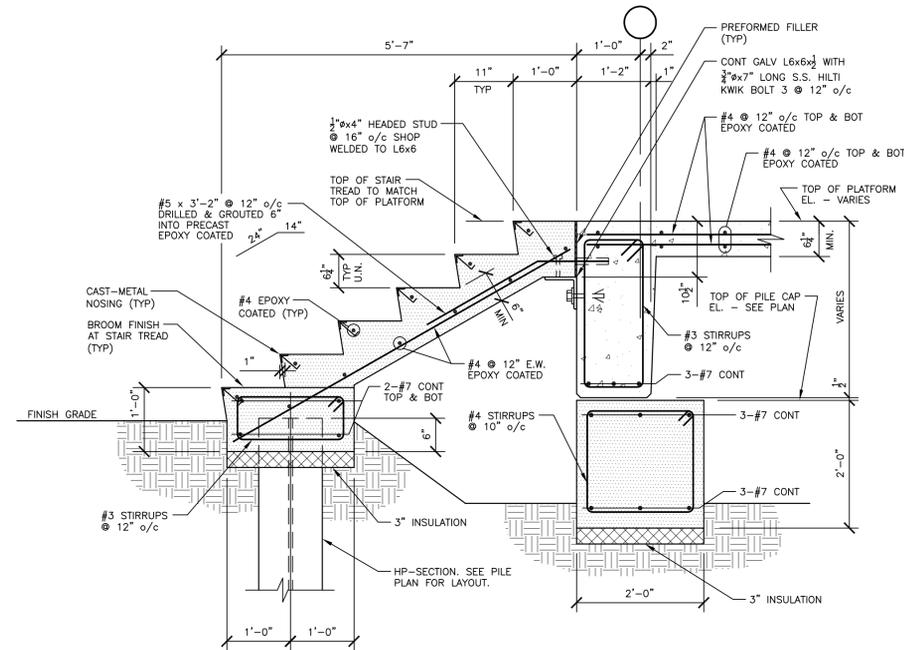
SECTION 1
1/4" = 1'-0"

1. SEE SHEETS S-27 AND S-28 FOR DETAILS AND DIMENSIONS NOT NOTED.

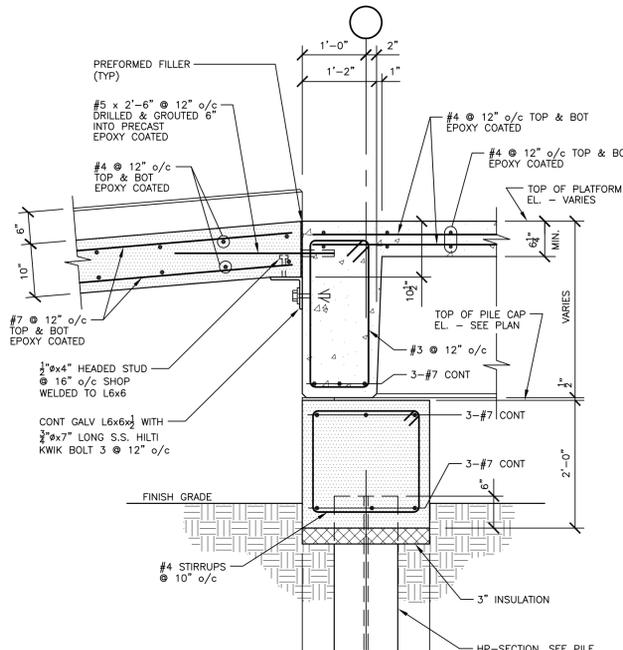


SECTION 2
1/4" = 1'-0"

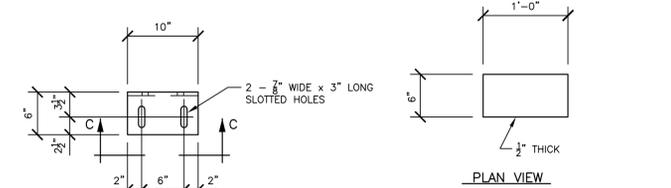
1. SEE SECTION 1/S-15 FOR DETAILS NOT SHOWN OR NOTED.



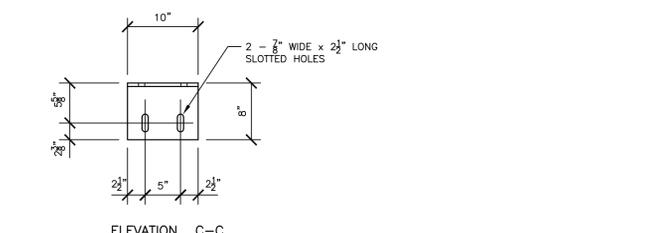
SECTION 3
1/4" = 1'-0"



SECTION 4
1/4" = 1'-0"



PLAN VIEW
MASTICORD BEARING PAD
1" = 1'-0"



ELEVATION C-C
CLIP L8x6x1/2 DETAILS
1" = 1'-0"

NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236

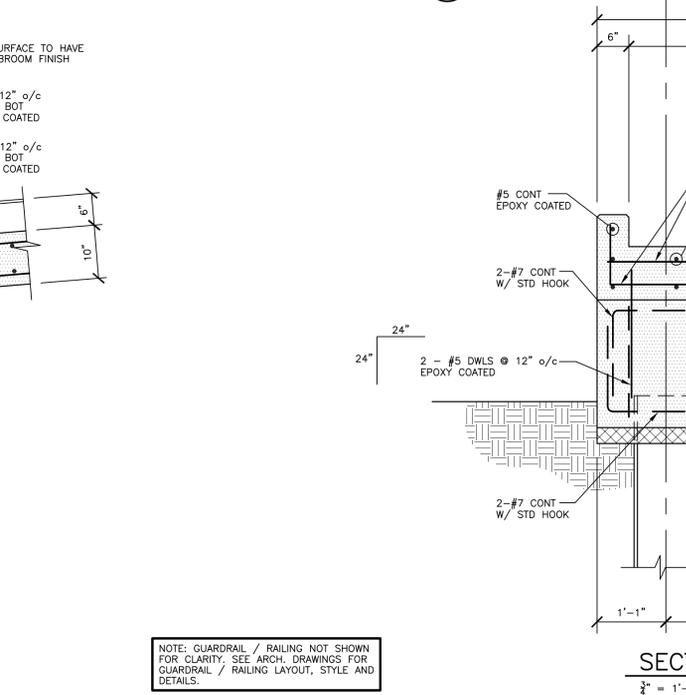
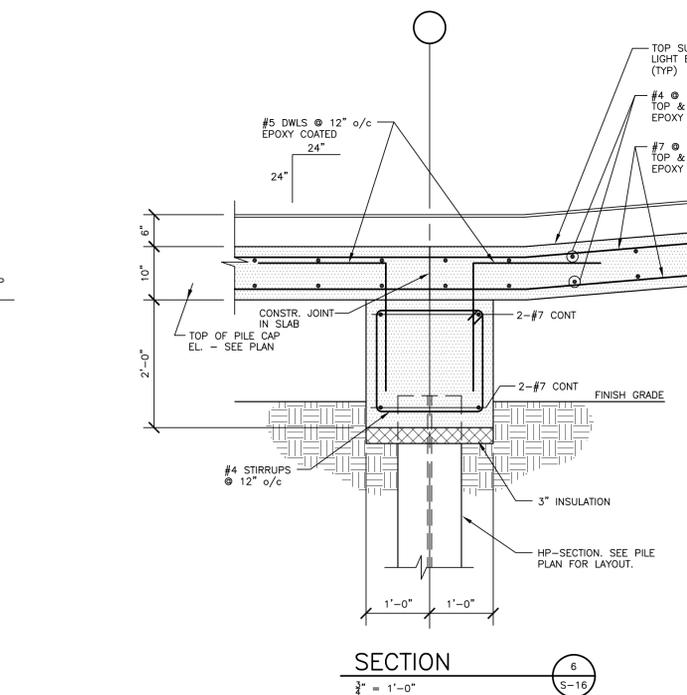
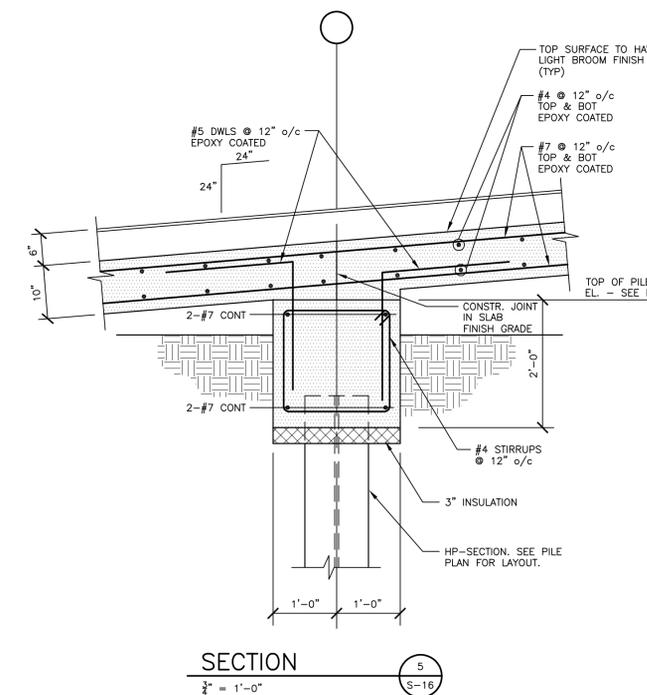
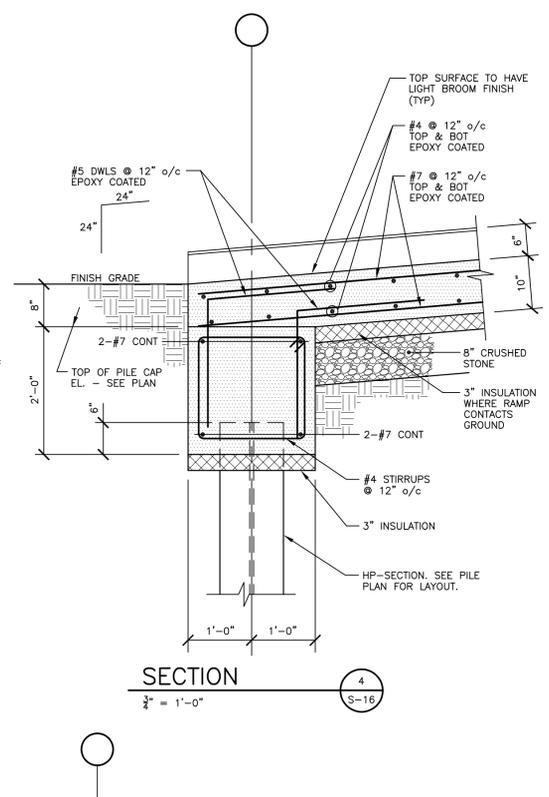
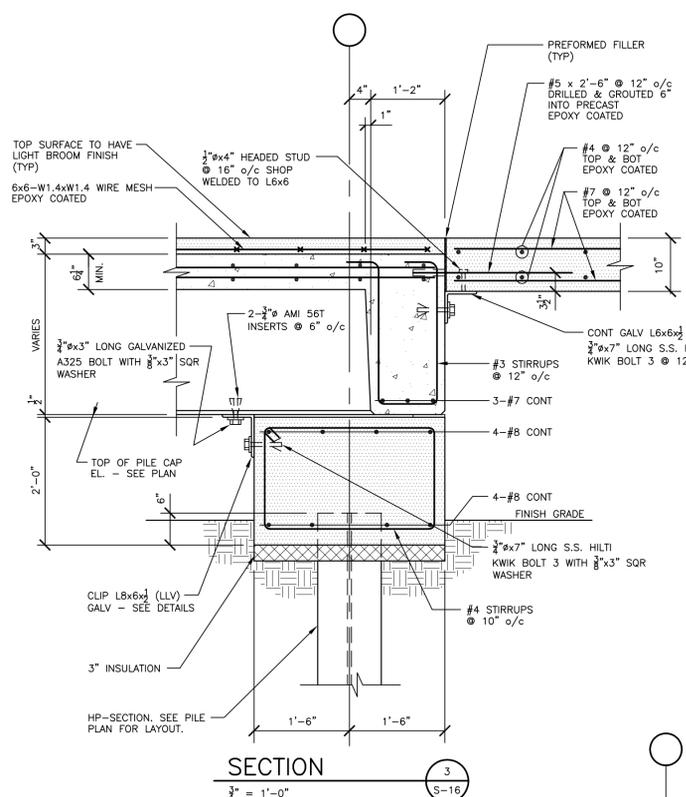
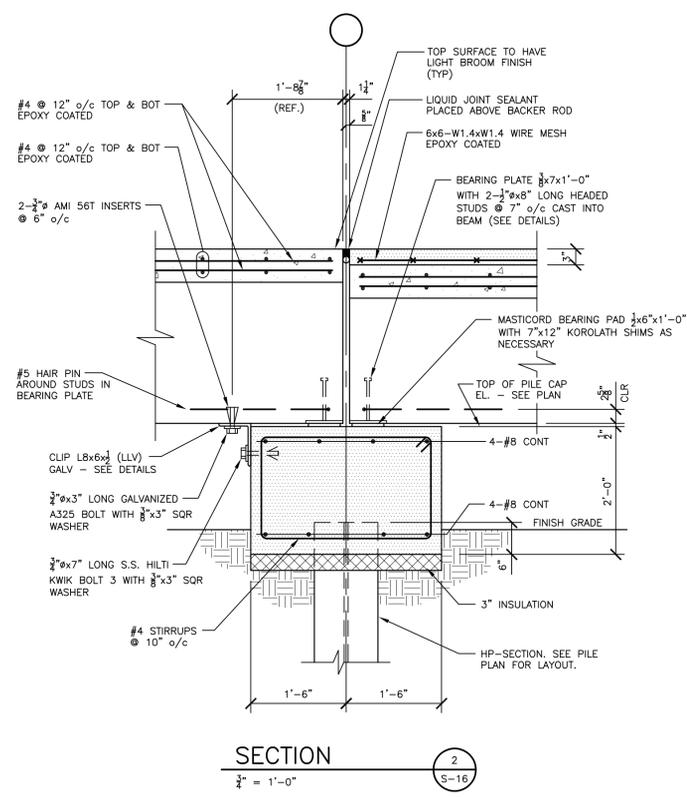
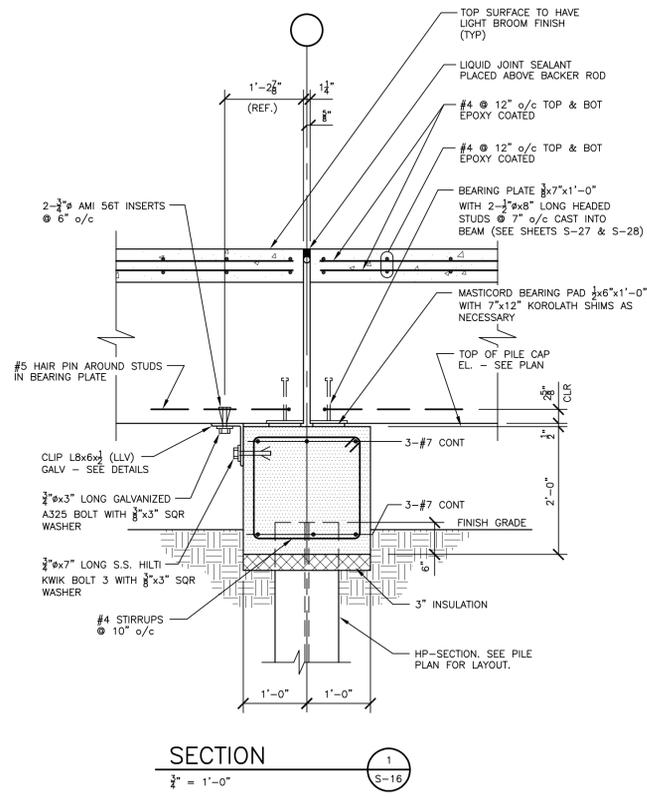
PROFESSIONAL ENGINEER
THOMAS T. THOMAS
No. 10075
1-18-2011
DATE

PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAIL	PCB	CEP	1/22/10
CHECKED/REVIEWED	PCB	CEP	1/22/10
DESIGN/DETAIL	PCB		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
FOUNDATION SECTIONS & DETAILS
- BRUNSWICK

SHEET NUMBER

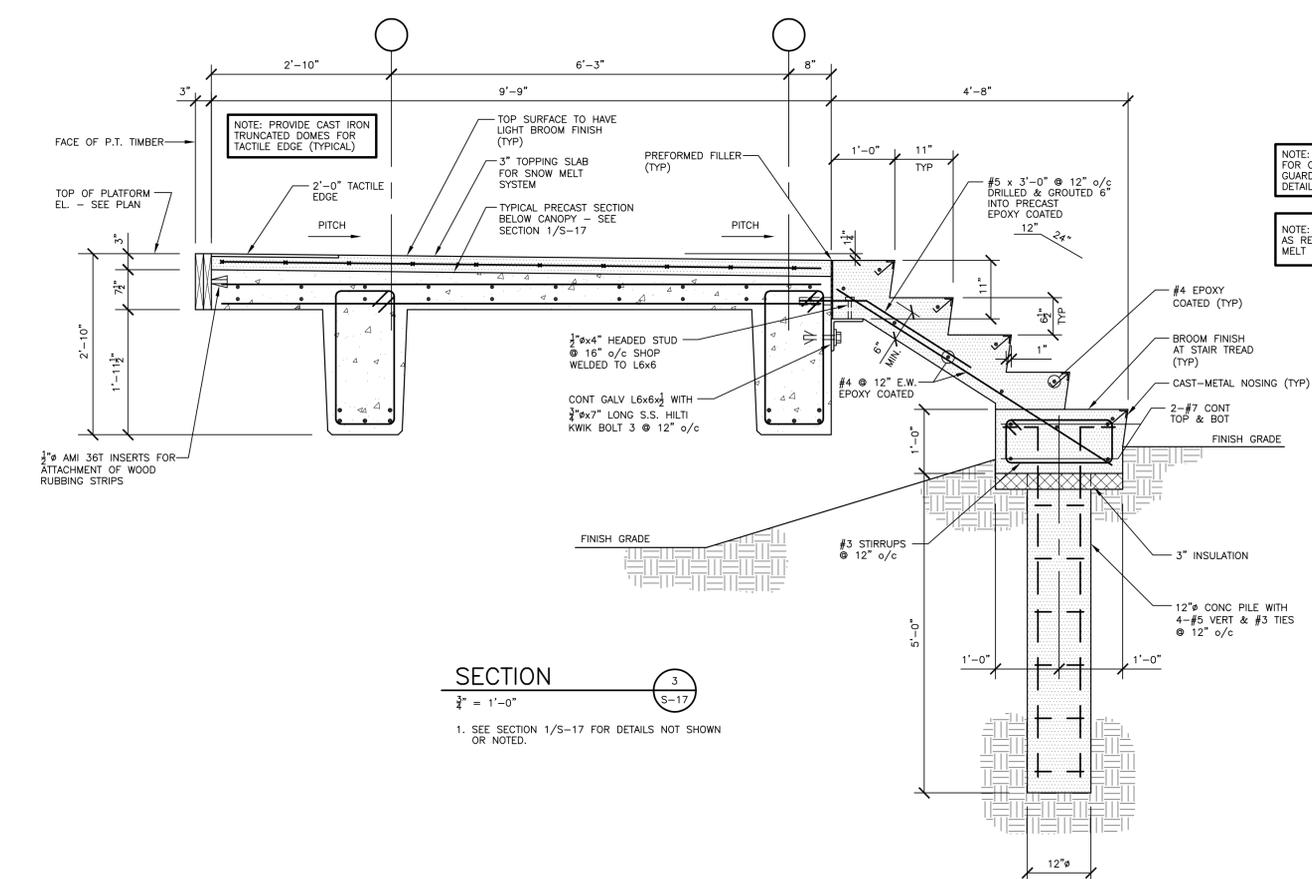
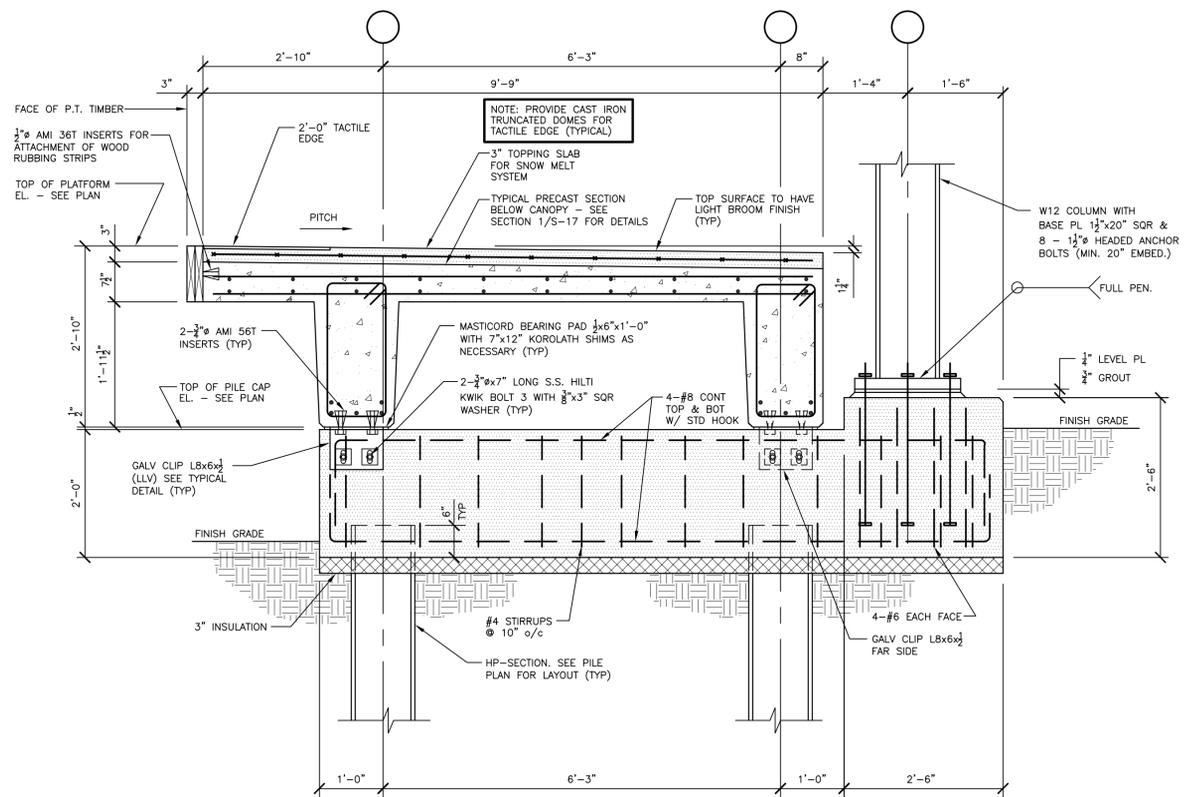
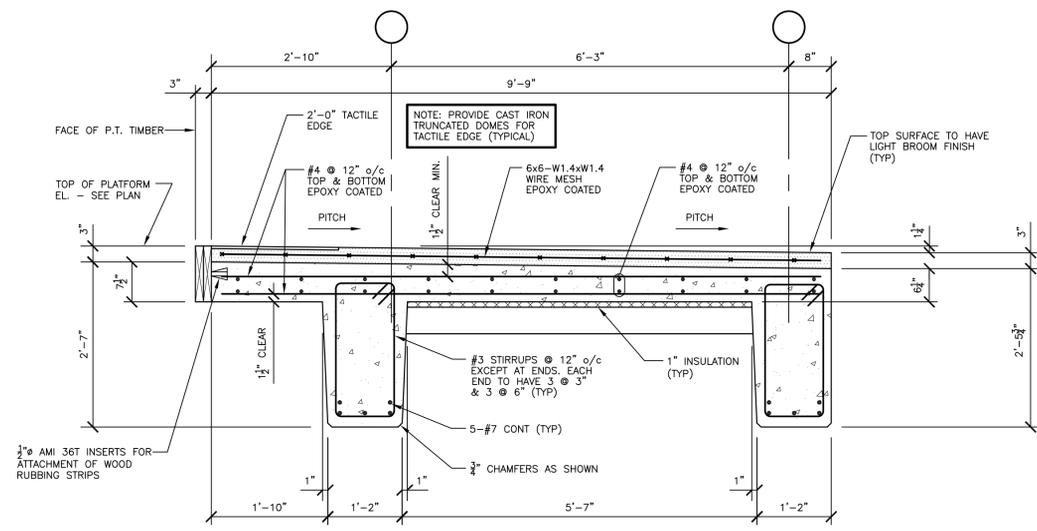
S-15



NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE. SEE MECH. DWGS.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STATE PROJECT NUMBER 15236		PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)	
		SIGNATURE: <i>Thomas T. Johnson</i> P.E. NUMBER: 10075 DATE: 1-18-2011	
PROJ. MANAGER	BY	DATE	
DESIGN/DETAILED: PCB	CEP	1/22/10	
CHECKED/REVIEWED: PCB	CEP	1/22/10	
DESIGN/DETAILED: J2			
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REVISIONS 200			



NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236

PROJ. MANAGER
 DESIGN/DETAILED PCB
 CHECKED/REVIEWED PCB
 DESIGN/DETAILED JZ
 DESIGN/DETAILED J3
 REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 FIELD CHANGES

DATE
 1/29/10
 1/29/10

BY
 CEP
 CEP

P. ROTTLE

DATE
 1/29/10
 1/29/10

DATE
 1-18-2011

DATE

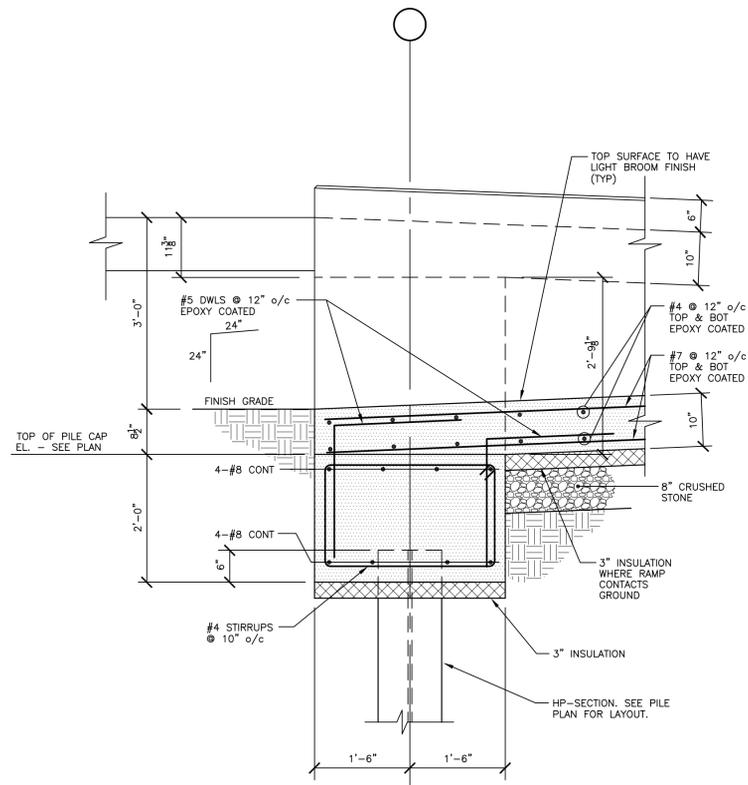
PROFESSIONAL ENGINEER
 THOMAS T. THOMAS
 No. 10075

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY

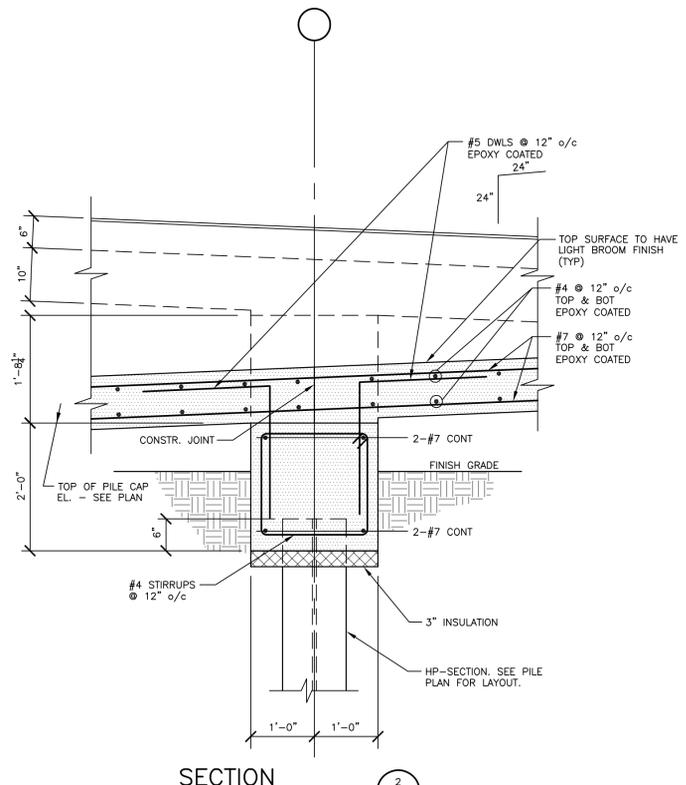
FOUNDATION SECTIONS - BRUNSWICK

SHEET NUMBER

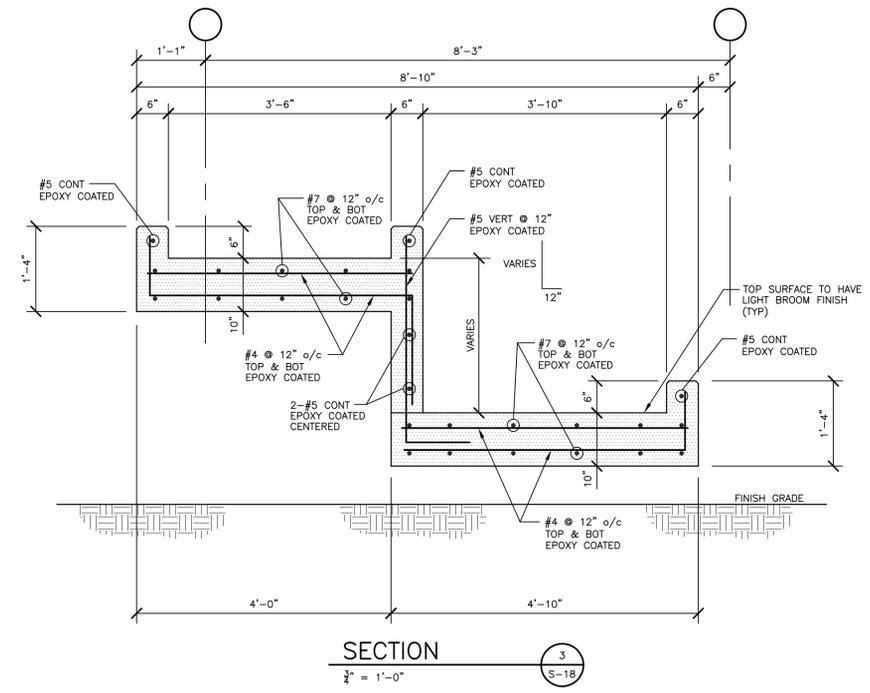
S-17



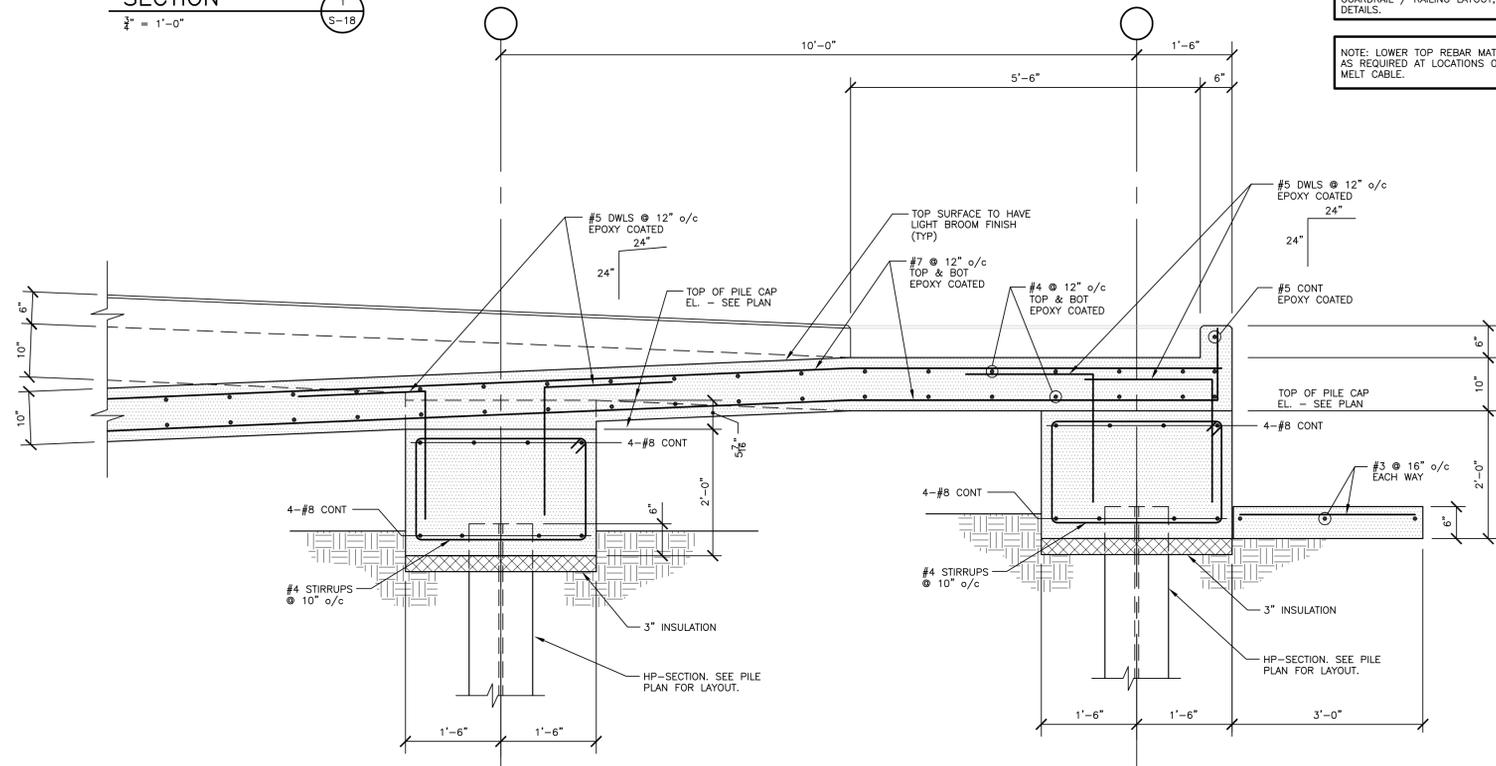
SECTION 1
 $\frac{3}{4}'' = 1'-0''$ S-18



SECTION 2
 $\frac{3}{4}'' = 1'-0''$ S-18



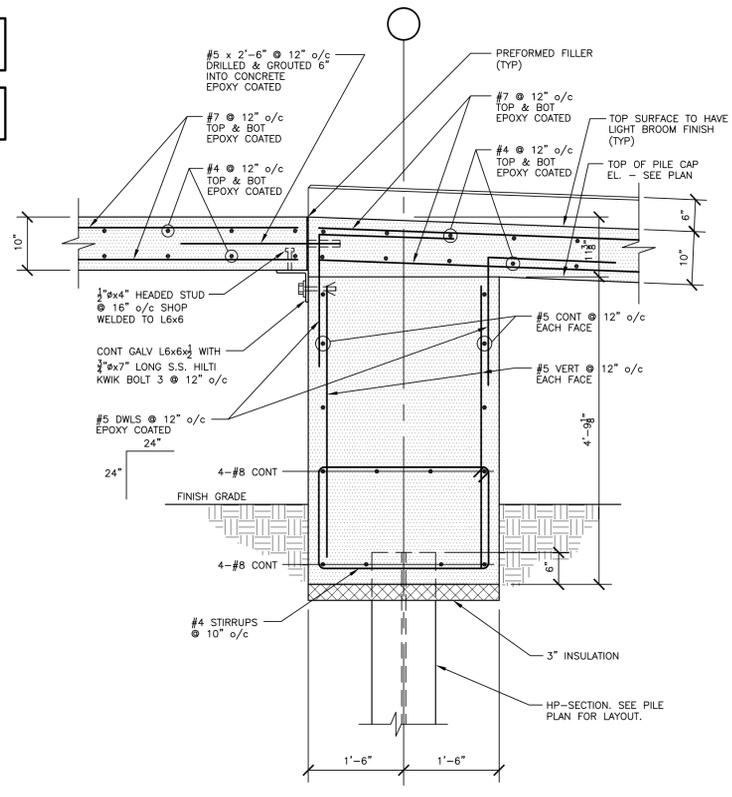
SECTION 3
 $\frac{3}{4}'' = 1'-0''$ S-18



SECTION 4
 $\frac{3}{4}'' = 1'-0''$ S-18

NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE.



SECTION 5
 $\frac{3}{4}'' = 1'-0''$ S-18

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236

THOMAS T. THOMAS
 No. 10075
 REGISTERED PROFESSIONAL ENGINEER

Signature: Thomas T. Thomas
 Date: 1-18-2011

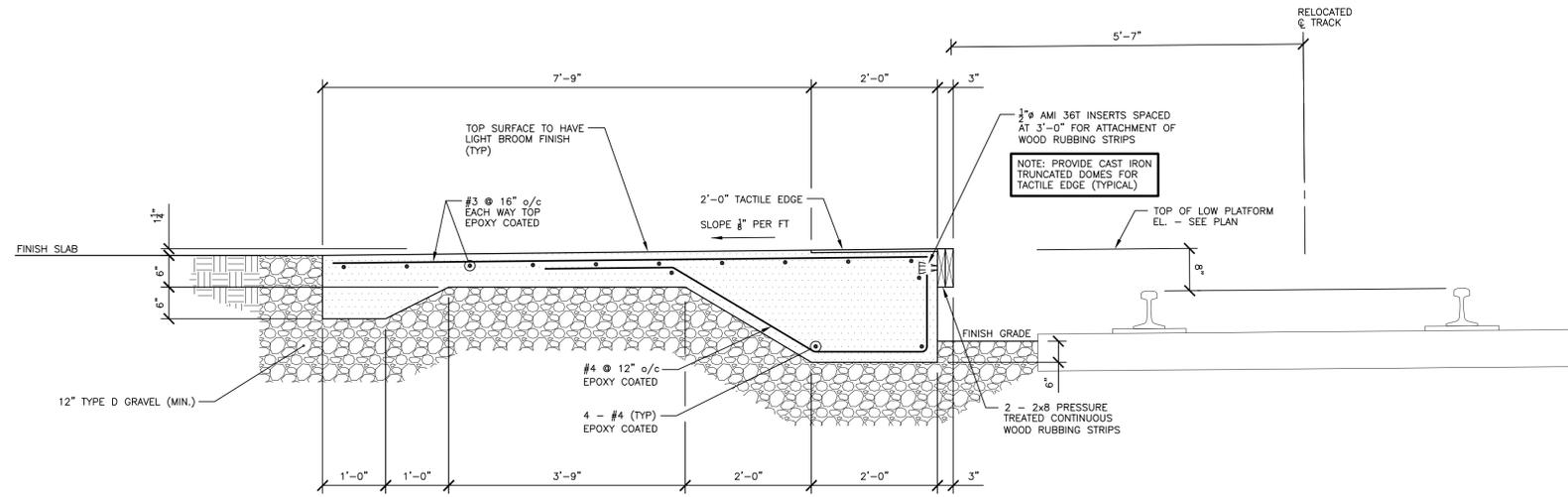
PROJ. MANAGER	BY	DATE
DESIGN/DETAILED	CEP	1/22/10
CHECKED/REVIEWED	CEP	1/22/10
DESIGN/DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
REVISIONS 5		
FIELD CHANGES		

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY

FOUNDATION SECTIONS - BRUNSWICK

SHEET NUMBER

S-18

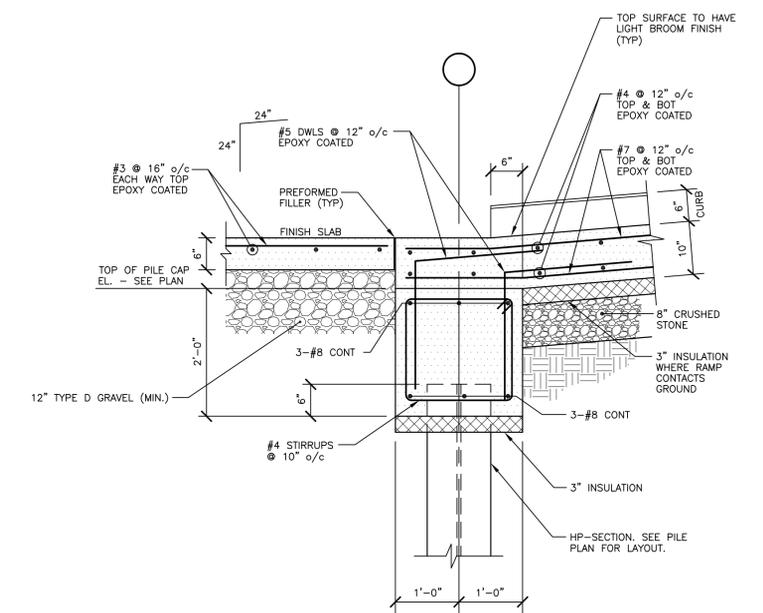


SECTION 1
 $\frac{3}{4}'' = 1'-0''$ S-19

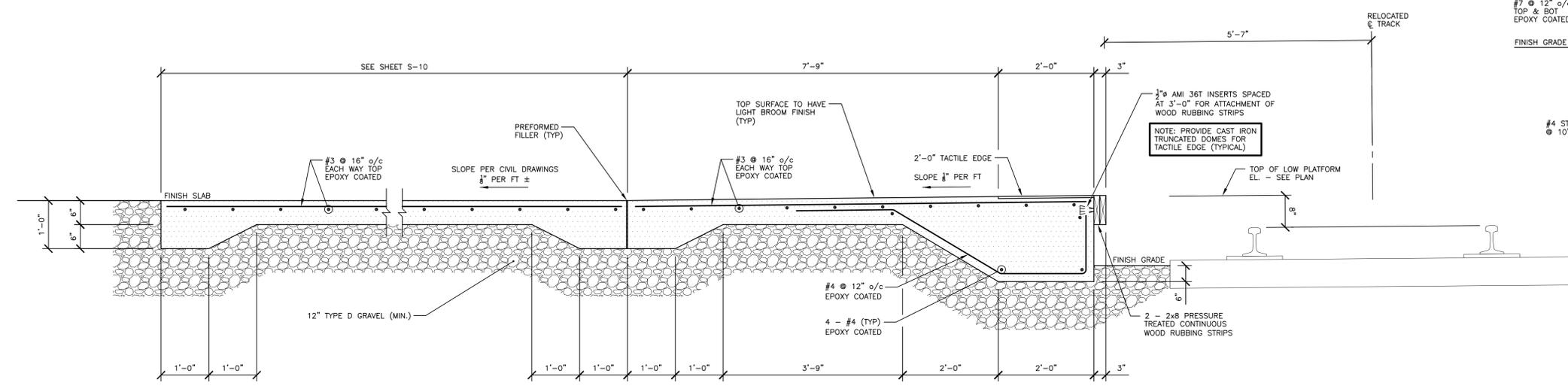
1. ALL SLAB ON GRADE AND LOW PLATFORM SHALL HAVE CONTRACTION JOINTS AT 5'-0" o/c EACH WAY AND EXPANSION JOINTS AT 50'-0" o/c EACH WAY. JOINTS NOT SHOWN FOR CLARITY.

NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE.

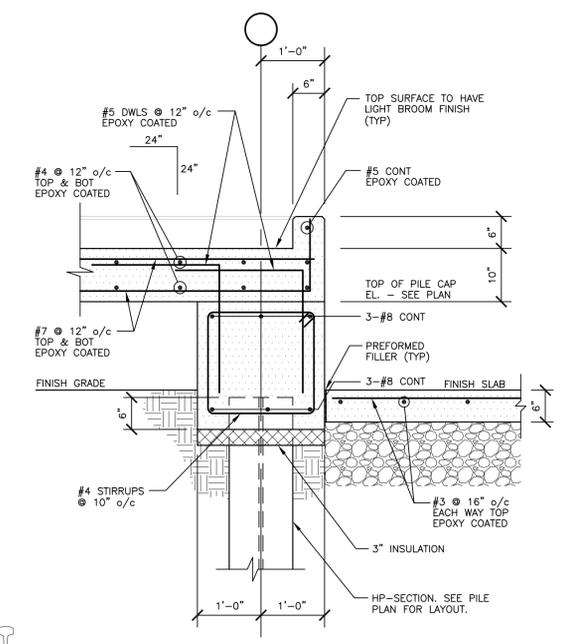


SECTION 3
 $\frac{3}{4}'' = 1'-0''$ S-19



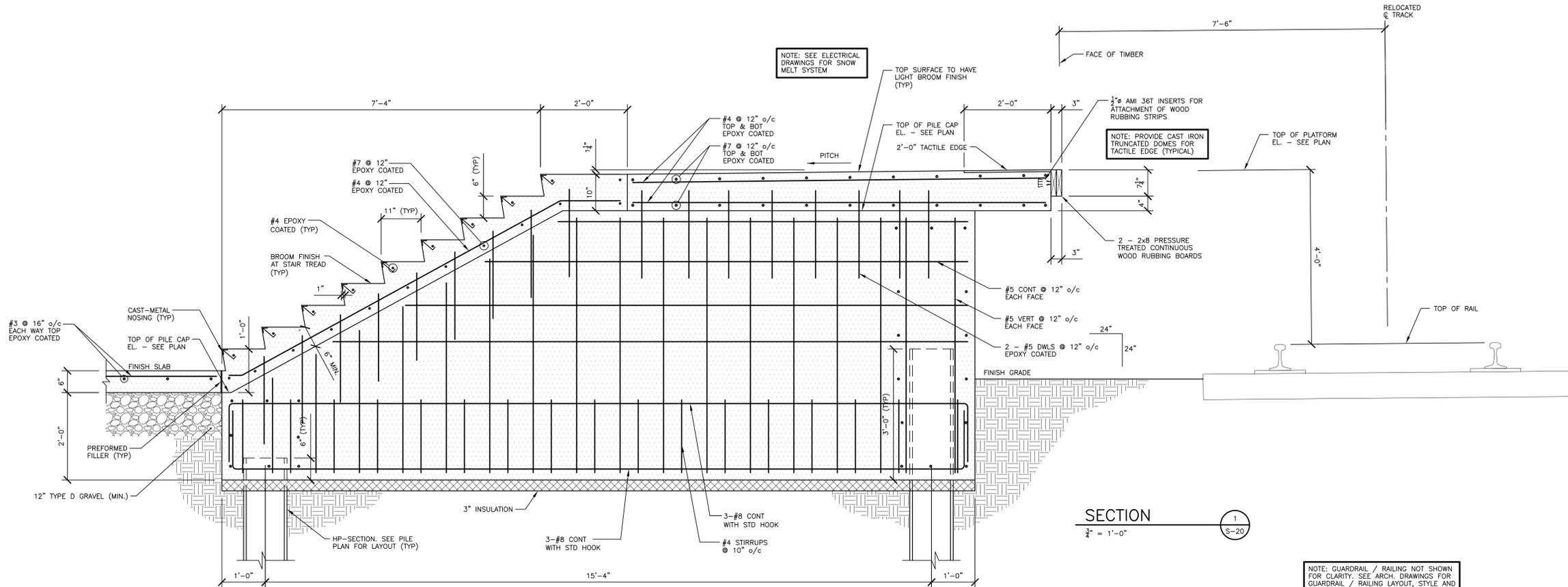
SECTION 2
 $\frac{3}{4}'' = 1'-0''$ S-19

1. ALL SLAB ON GRADE AND LOW PLATFORM SHALL HAVE CONTRACTION JOINTS AT 5'-0" o/c EACH WAY AND EXPANSION JOINTS AT 50'-0" o/c EACH WAY. JOINTS NOT SHOWN FOR CLARITY.



SECTION 4
 $\frac{3}{4}'' = 1'-0''$ S-19

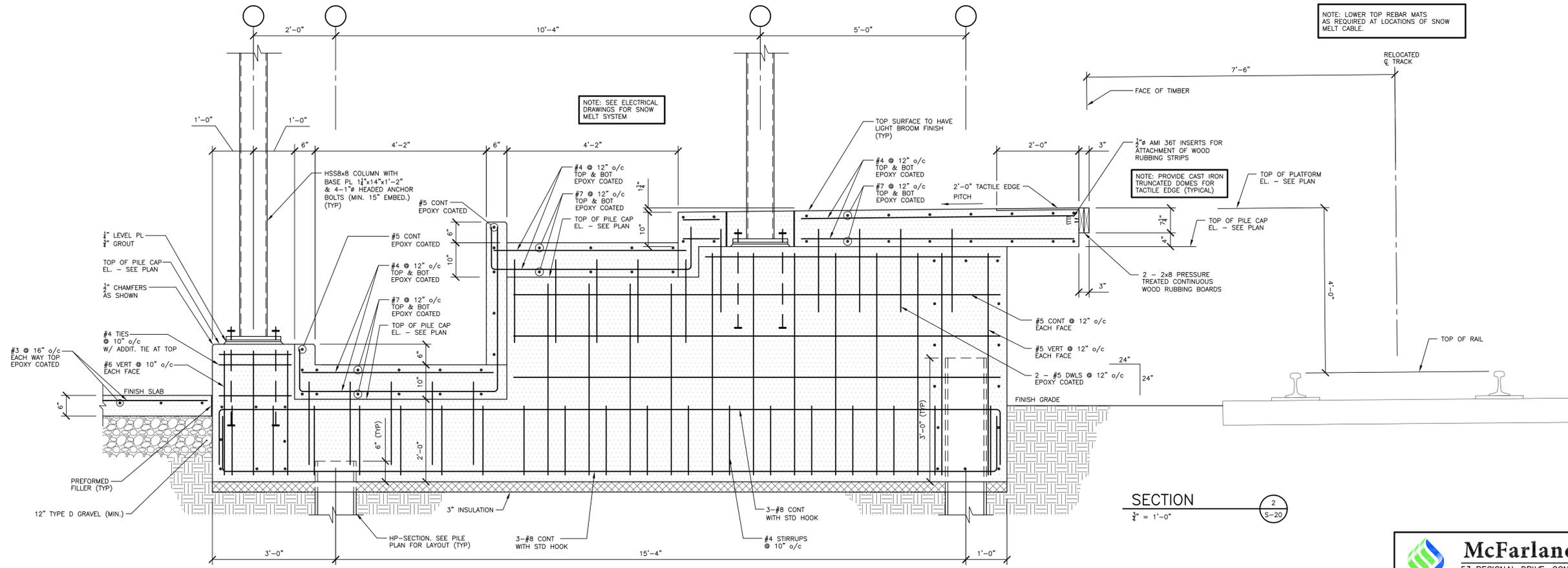
PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	12/29/10
CHECKED/REVIEWED	PCB	CEP	12/29/10
DESIGN/REVIEWED	PCB		
DESIGN/DETAILED	3		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
REVISIONS 5			
FIELD CHANGES			



SECTION 1
 $\frac{1}{2}'' = 1'-0''$

NOTE: GUARDRAIL / RAILING NOT SHOWN FOR CLARITY. SEE ARCH. DRAWINGS FOR GUARDRAIL / RAILING LAYOUT, STYLE AND DETAILS.

NOTE: LOWER TOP REBAR MATS AS REQUIRED AT LOCATIONS OF SNOW MELT CABLE.



SECTION 2
 $\frac{1}{2}'' = 1'-0''$

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236

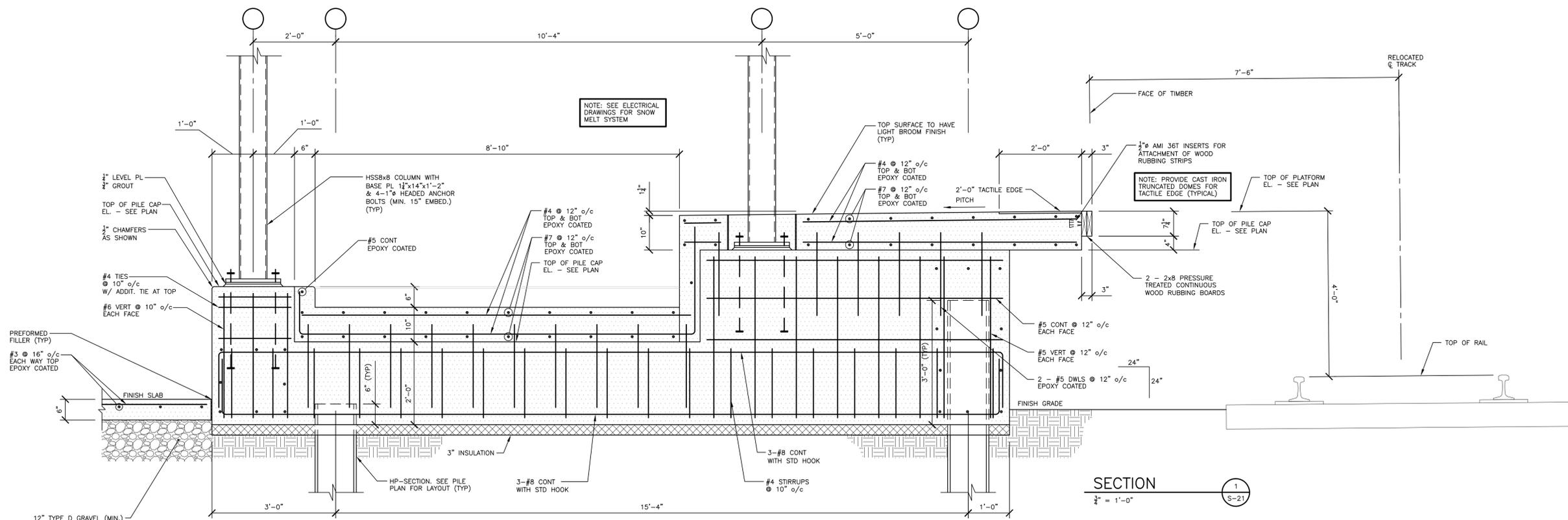
PROJ. MANAGER: Thomas T. Thomas, No. 10075
 P.E. NUMBER: 10075
 DATE: 1-18-2011

PROJ. MANAGER	DATE	BY	P. ROTTLE
DESIGN/DETAILED	12/29/10	CEP	
CHECKED/REVIEWED	12/29/10	CEP	
DESIGN/DETAILED 2			
DESIGN/DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
FIELD CHANGES			

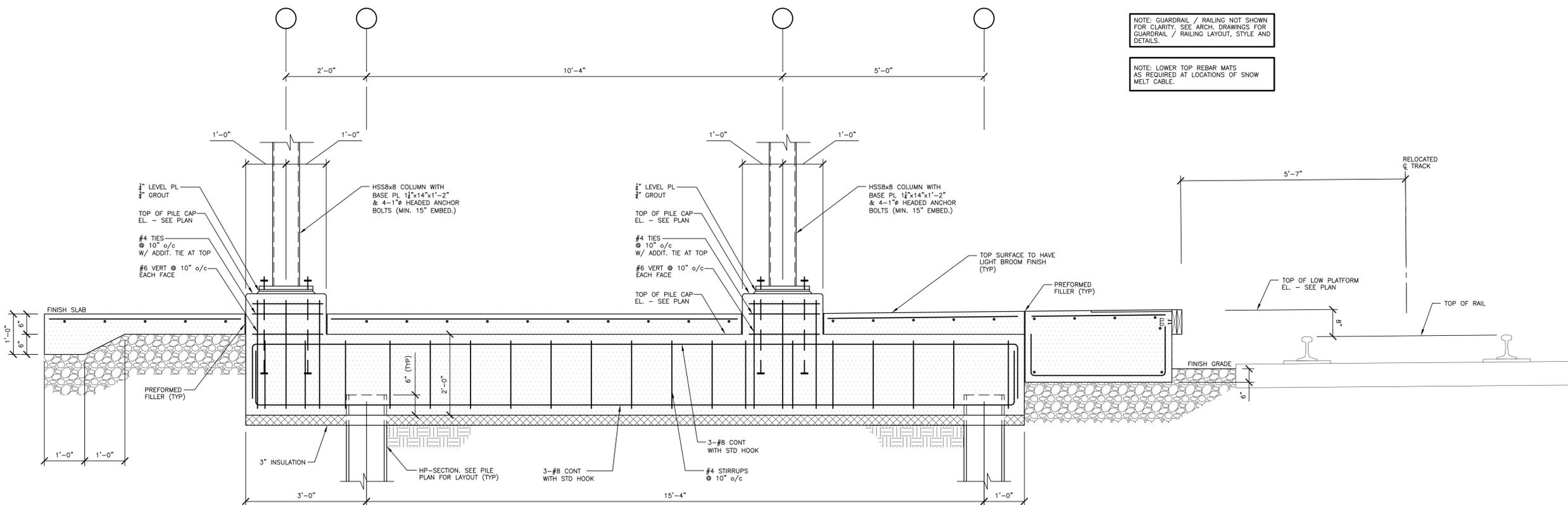
PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 FOUNDATION SECTIONS - FREEPORT

SHEET NUMBER

S-20



SECTION 1
 $\frac{3}{4}'' = 1'-0''$ S-21



SECTION 2
 $\frac{3}{4}'' = 1'-0''$ S-21

1. SEE SECTION 2/S-19 FOR DETAILS NOT SHOWN OR NOTED.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236

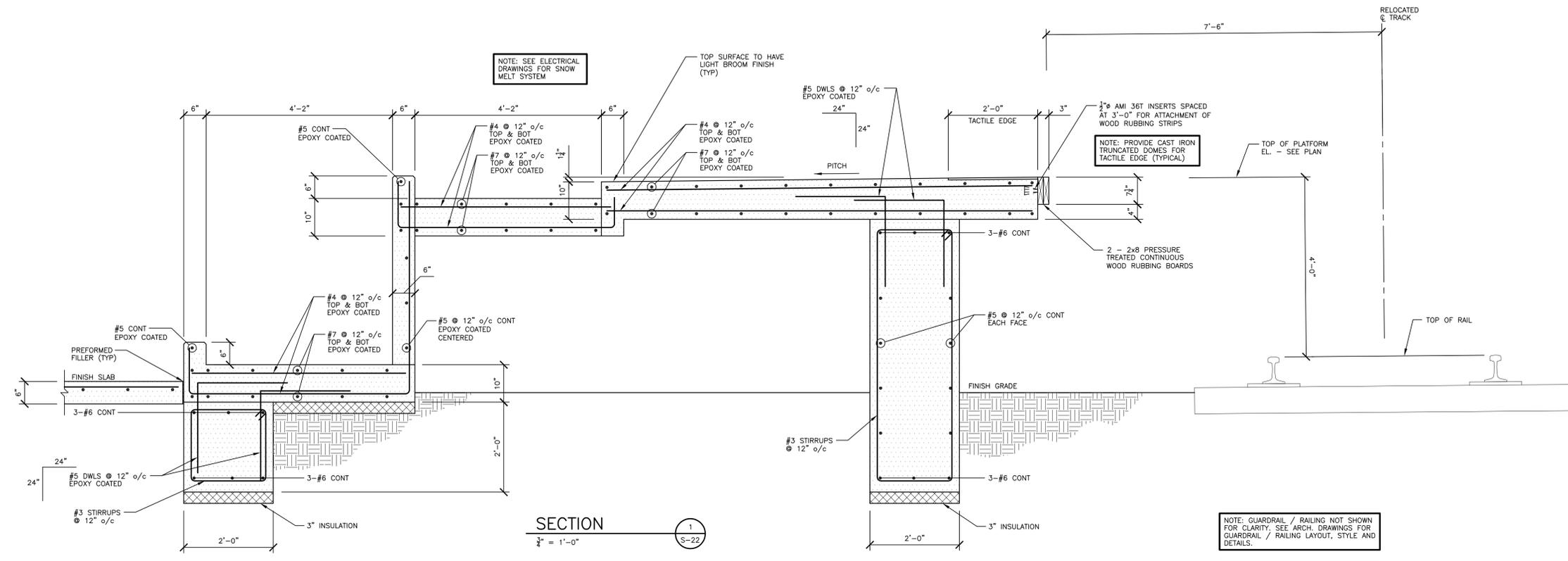
PROFESSIONAL ENGINEER
 THOMAS T. THOMAS
 No. 10075
 SIGNATURE
 10075
 P.E. NUMBER
 1-18-2011
 DATE

PROJ. MANAGER	P. POTTLE	BY	DATE
DESIGN-DETAILED	PCB	CEP	12/29/10
CHECKED/REVIEWED	PCB	CEP	12/29/10
DESIGN-DETAILED/2			
DESIGN-DETAILED/3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

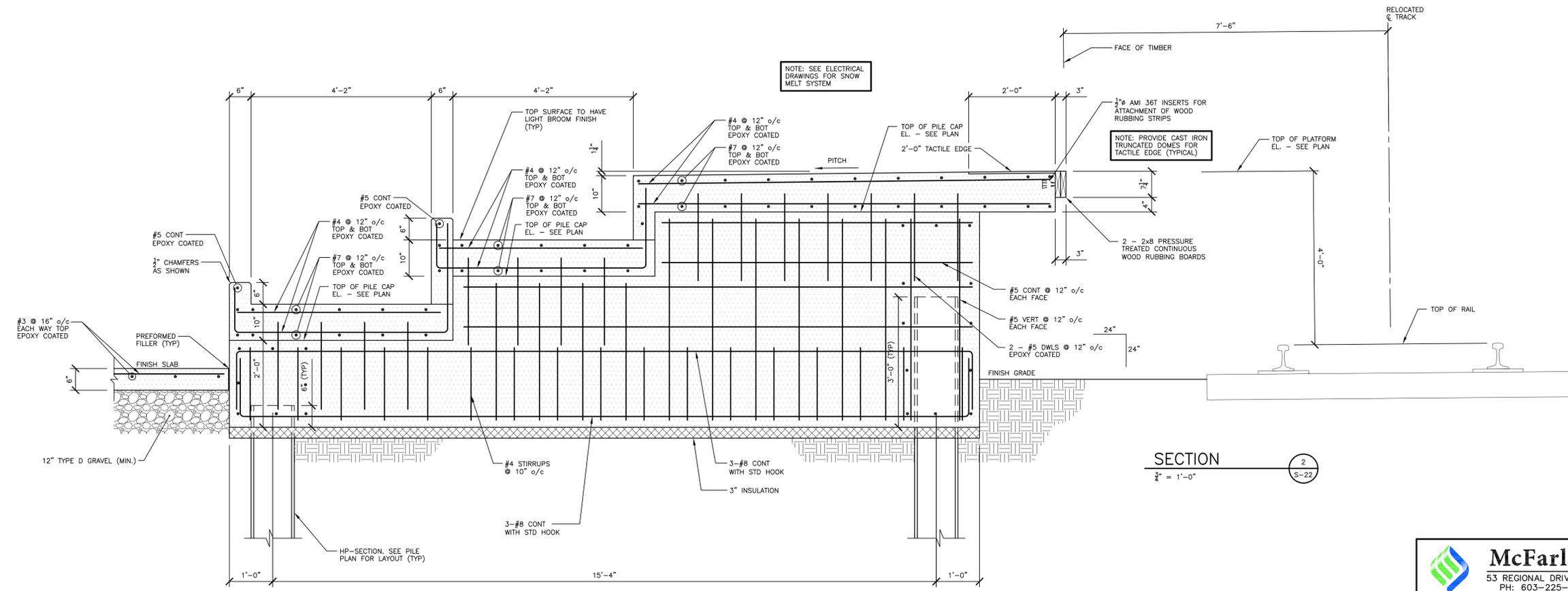
PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 FOUNDATION SECTIONS - FREEPORT

SHEET NUMBER
S-21





SECTION 1
 $\frac{3}{8}'' = 1'-0''$ S-22



SECTION 2
 $\frac{3}{8}'' = 1'-0''$ S-22

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236

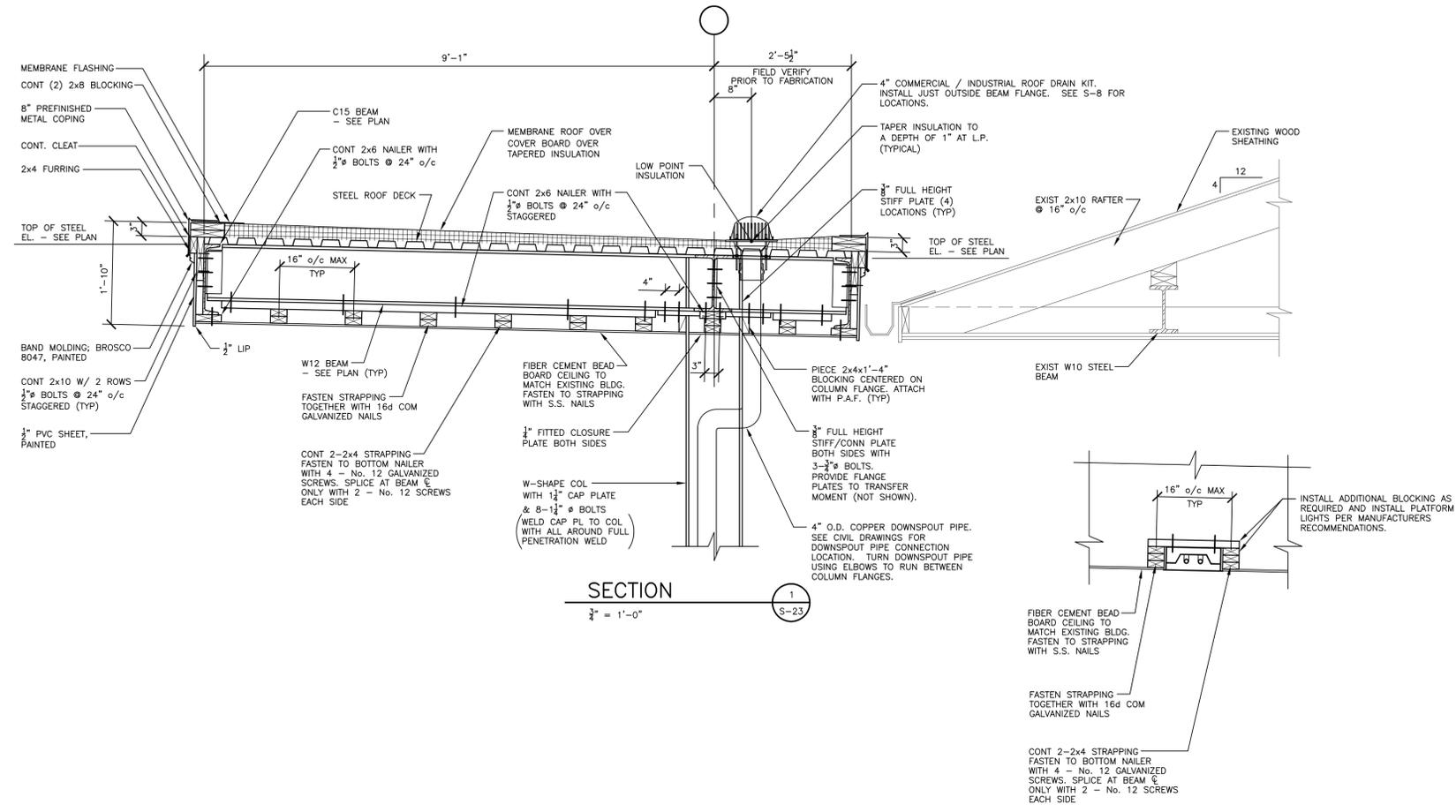
PROFESSIONAL ENGINEER
 THOMAS T. THOMAS
 No. 10075
 SIGNATURE
 10075
 P.E. NUMBER
 1-18-2011
 DATE

PROJ. MANAGER	DATE	BY	P. ROTTLE
DESIGN/DETAILED	12/29/10	CEP	PCB
CHECKED/REVIEWED	12/29/10	CEP	PCB
DESIGN/REVIEWED			
DESIGN/REVIEWED			
REVISIONS 1			
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 FOUNDATION SECTIONS - FREEPORT

SHEET NUMBER

S-22

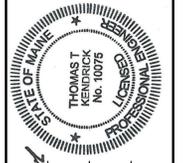


SECTION
 $\frac{3}{8}'' = 1'-0''$

PLATFORM LIGHT DETAIL
 $\frac{3}{8}'' = 1'-0''$

1. SEE ELECTRICAL DRAWINGS FOR PLATFORM LIGHT LOCATIONS.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



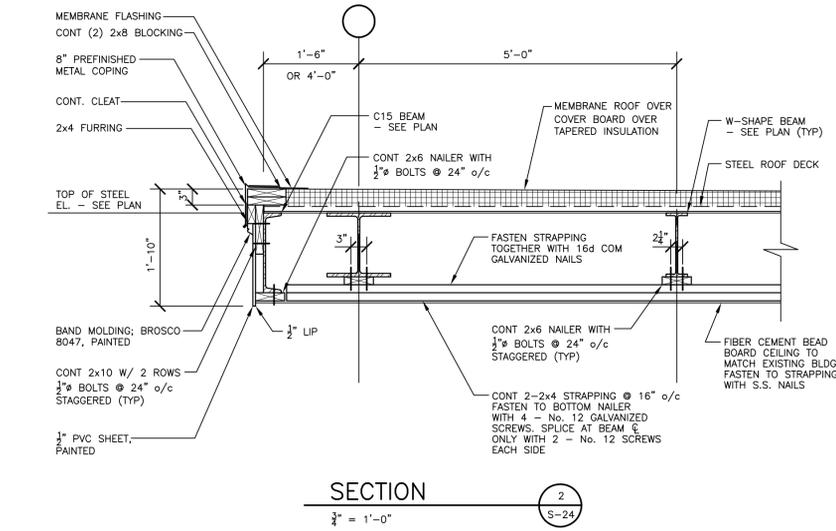
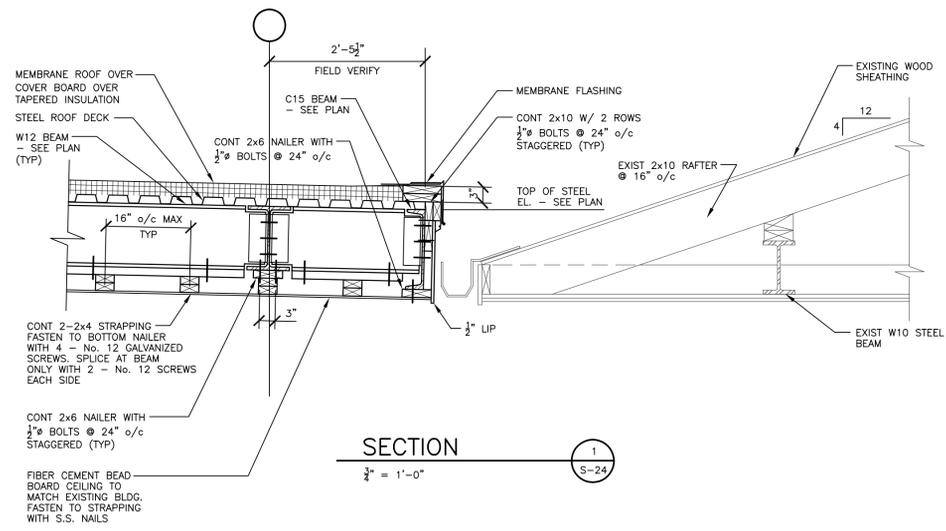
THOMAS T. McFarland
 SIGNATURE
 10075
 P.E. NUMBER
 1-18-2011
 DATE

PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAILED PCB		CEP	12/29/10
CHECKED/REVIEWED PCB		CEP	12/29/10
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DESIGN/DETAILED/03			
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PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 ROOF SECTIONS - BRUNSWICK

SHEET NUMBER

S-23



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

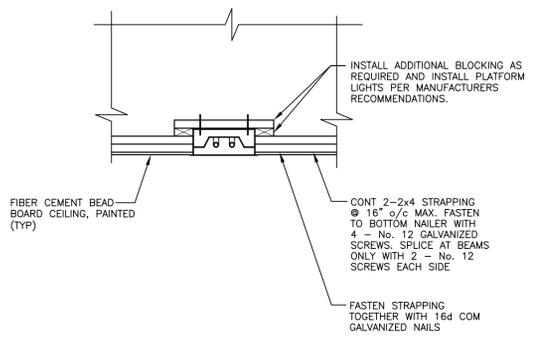
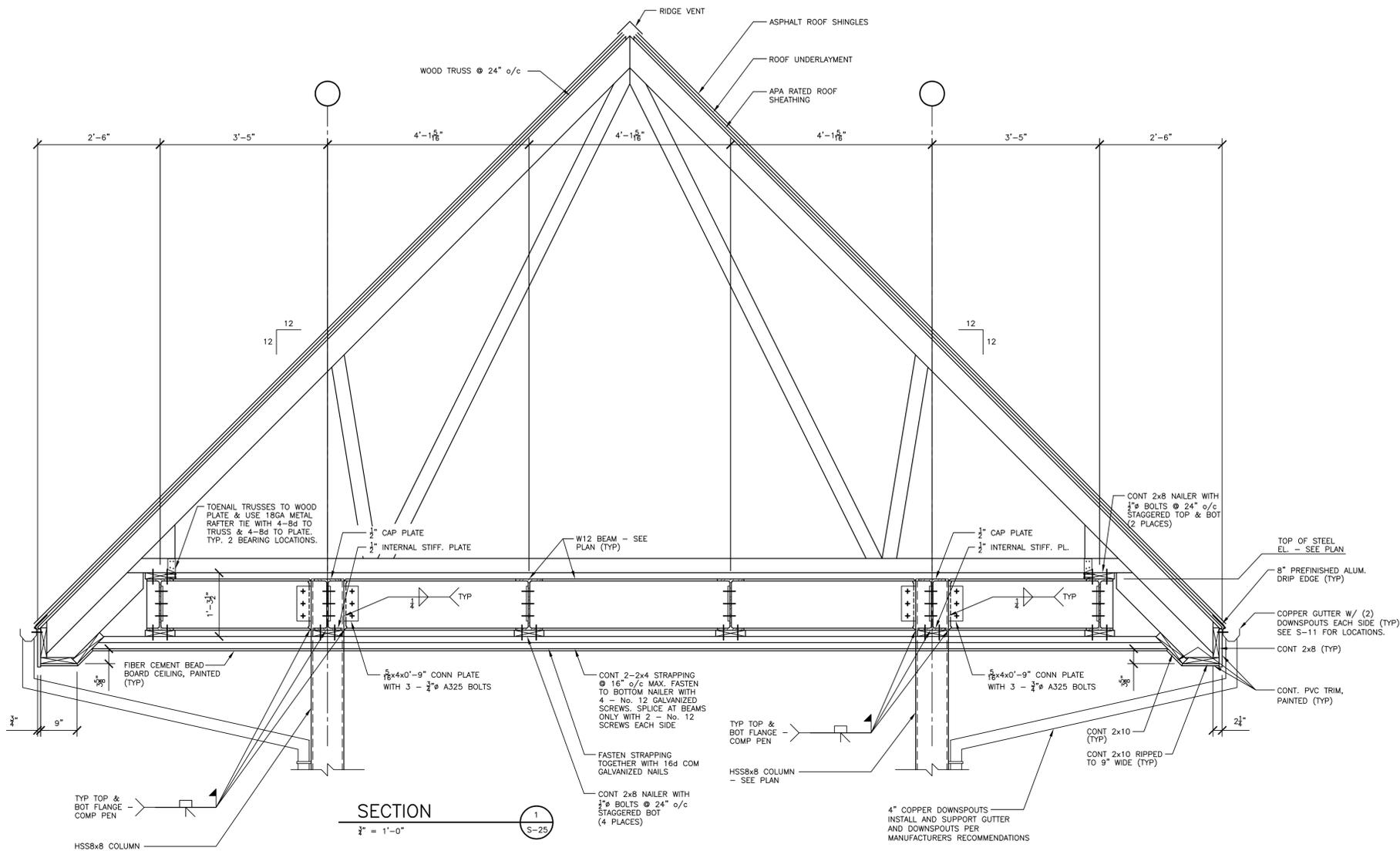
THOMAS T. McFarland
 No. 10075
 1-18-2011
 SIGNATURE P.E. NUMBER DATE

PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	12/29/10
CHECKED/REVIEWED	PCB	CEP	12/29/10
DESIGN/DETAILED 2			
DESIGN/DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 ROOF SECTIONS - BRUNSWICK

SHEET NUMBER

S-24



1. SEE ELECTRICAL DRAWINGS FOR PLATFORM LIGHT LOCATIONS.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236



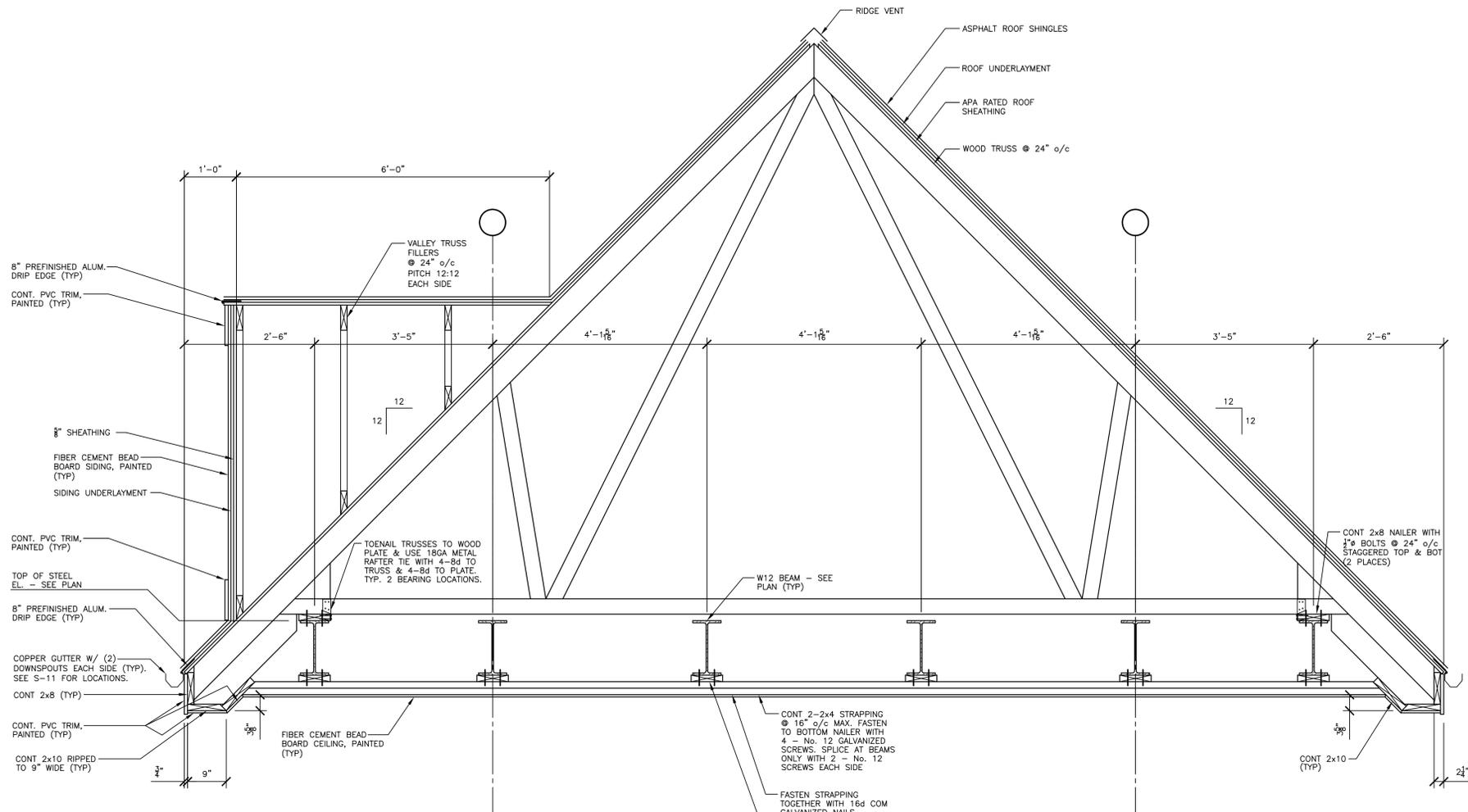
THOMAS T. No. 10075
SIGNATURE
P.E. NUMBER
10075
DATE
1-18-2011

PROJ. MANAGER	P. POTTLER	BY	DATE
DESIGN/DETAILED	PCB	CEP	12/29/10
CHECKED/REVIEWED	PCB	CEP	12/29/10
DESIGN/DETAILED	PCB		
DESIGN/DETAILED	PCB		
REVISIONS			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
ROOF SECTIONS - FREEPORT

SHEET NUMBER

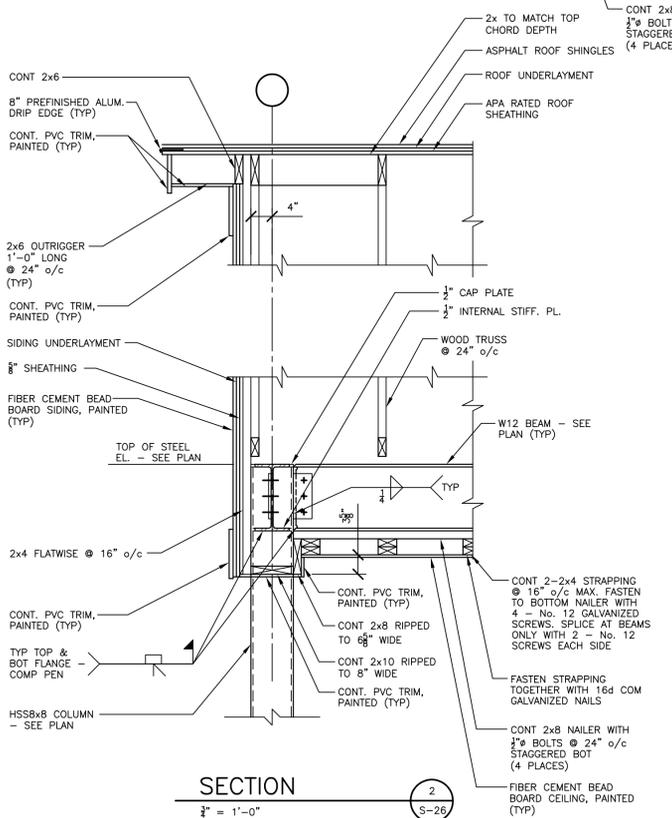
S-25



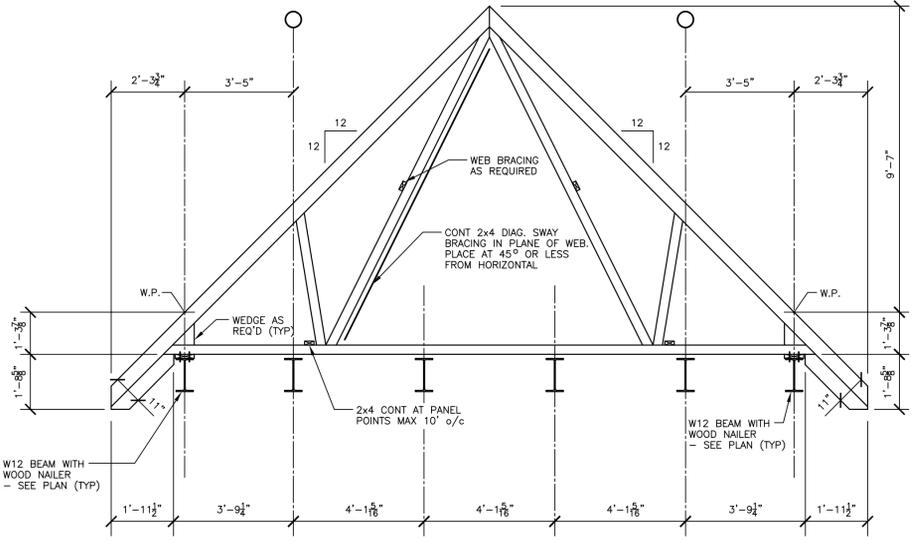
WOOD TRUSS DESIGN NOTES

- TRUSS CONFIGURATION MAY VARY TO SUIT MANUFACTURER.
- BRACING SHALL BE 2x4 MIN. SIZE AND SHALL BE NAILED TO ALL CROSSING TRUSSES WITH 2-16d COMMON. BRACING SHALL BE OVERLAPPED ONE TRUSS SPACING MIN. AT SPLICES.
- TRUSSES SHALL BE DESIGNED TO SUPPORT LIVE LOADS IN ACCORDANCE WITH IBC 2009, ASCE 7-05 USING A GROUND SNOW LOAD OF 50 PSF.
DESIGN LOADS:
TOP CHORD DL = 10 PSF LL = 42 PSF (PLUS UNBALANCED, DRIFT & SLIDING AS REQUIRED)
BOTTOM CHORD DL = 12 PSF
- IN ADDITION TRUSS BOTTOM CHORDS ONLY SHALL BE ADEQUATE TO CARRY A 200 LB CONCENTRATED LOAD PLACED ANYWHERE. LOAD DURATION FACTOR MAY BE INCREASED TO 1.50 WHEN THIS LOAD IS APPLIED.

SECTION 1
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"



TYPE A TRUSS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236

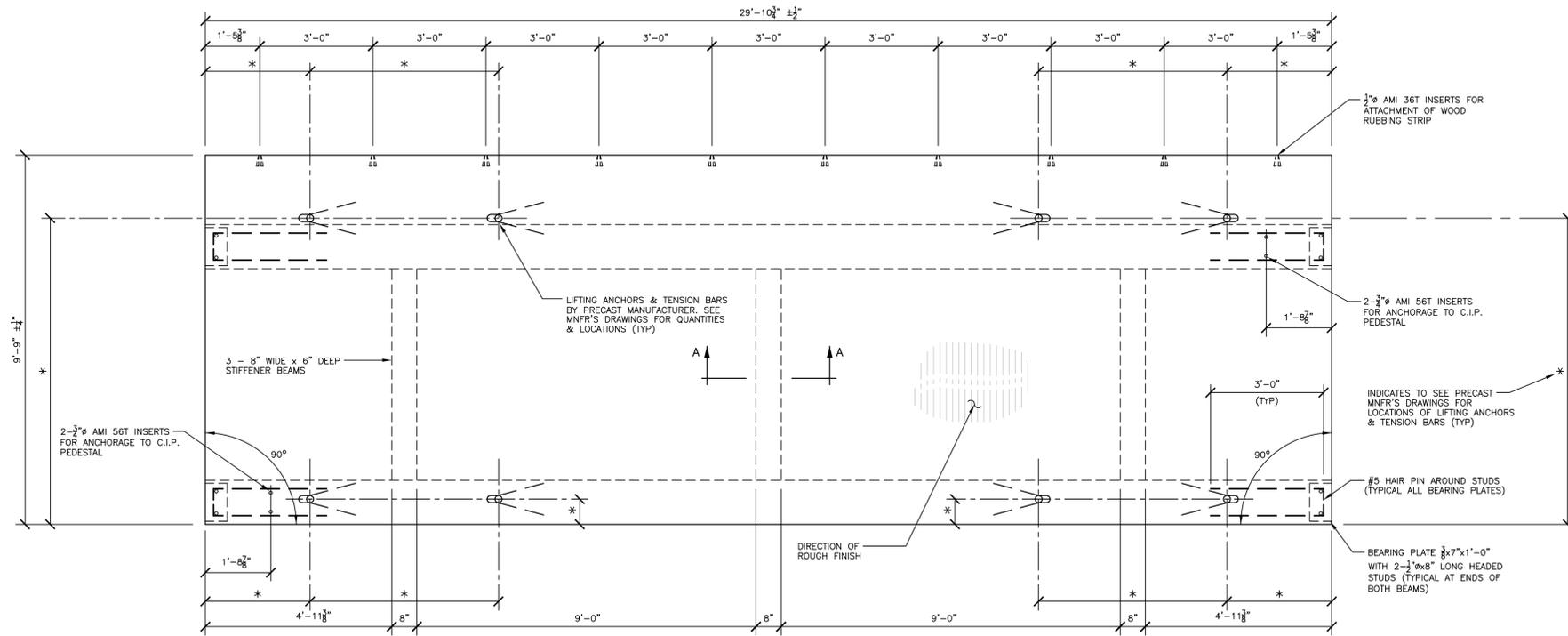
PROF. MANAGER: *Thomas T. Johnson*
DESIGN DETAIL: PCB
CHECKED/REVIEWED: PCB
DESIGN DATE/FILED: 10/07/05
REVISIONS: 1, 2, 3
FIELD CHANGES: 1, 2, 3

PROJ. MANAGER	DATE	BY	P. TITLE
THOMAS T. JOHNSON	10/07/05	CEP	PROF. ENGINEER
PCB	10/07/05	CEP	PROJECT ENGINEER

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
ROOF SECTIONS AND DETAILS
- FREEPORT

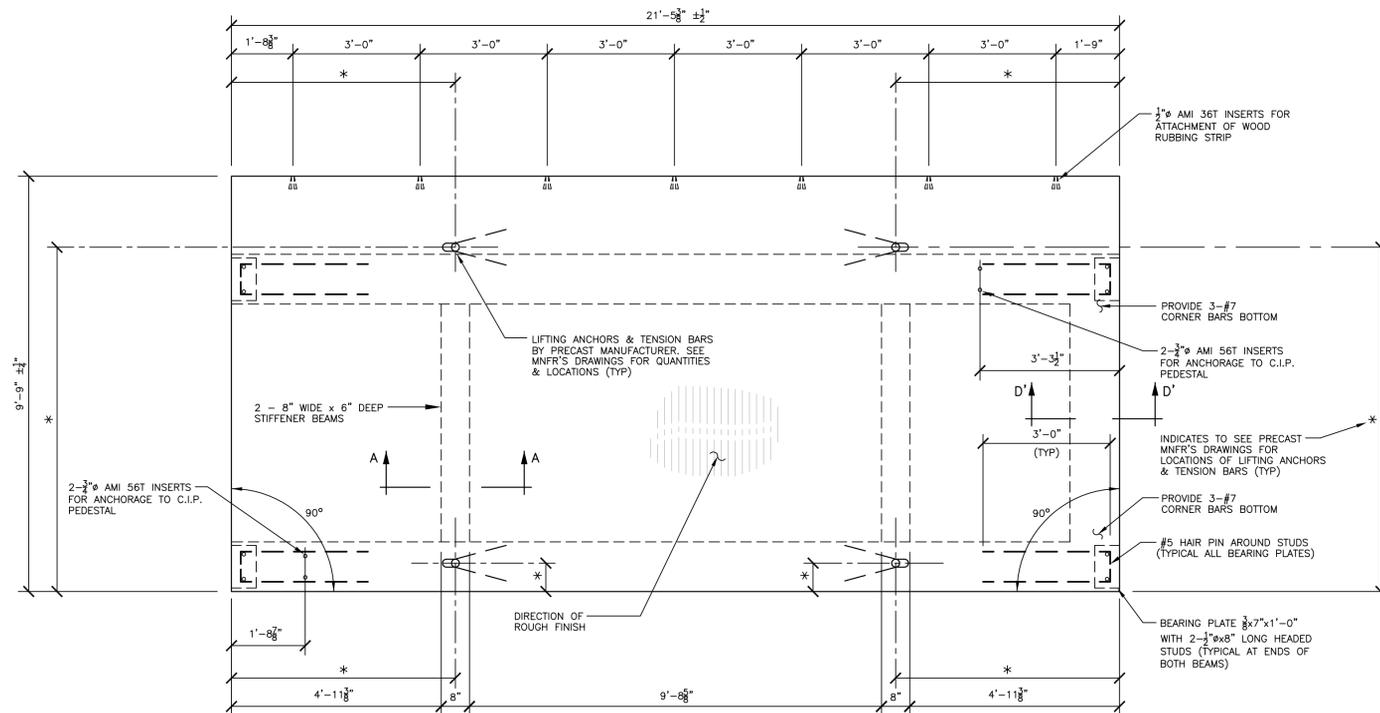
SHEET NUMBER

S-26



PLAN VIEW - SLAB TYPE "PS-1C"

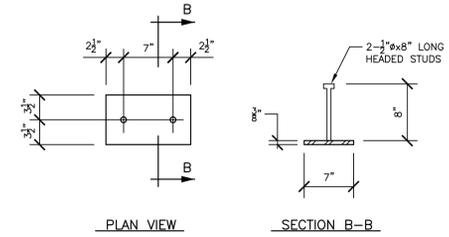
1/2" = 1'-0"
2 - REQUIRED



PLAN VIEW - SLAB TYPE "PS-1D"

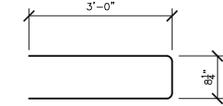
1/2" = 1'-0"
1 - REQUIRED

NOTE: SEE ARCH. DRAWINGS FOR INSERTS REQUIRED FOR GUARDRAIL / RAILING ATTACHMENT.



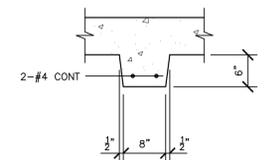
BEARING PLATE DETAILS

1" = 1'-0"



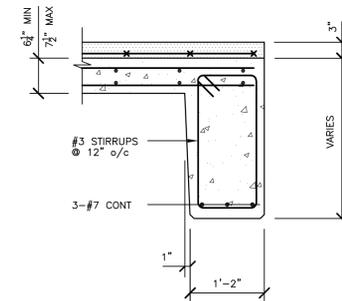
#5 HAIR PIN DETAIL

1/2" = 1'-0"



SECTION A-A

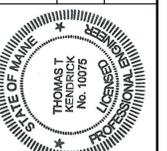
1/2" = 1'-0"



SECTION D'-D'

1/2" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236



THOMAS T. JOHNSON
No. 10075
1/18-2011
DATE

PROJ. MANAGER	P. ROTTLE	BY	DATE
DESIGN/DETAILED	PCB	CEP	1/22/10
CHECKED/REVIEWED	PCB	CEP	1/22/10
DESIGN/DETAILED 2			
DESIGN/DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
PRECAST DOUBLE TEE DETAILS
- BRUNSWICK

SHEET NUMBER

S-28

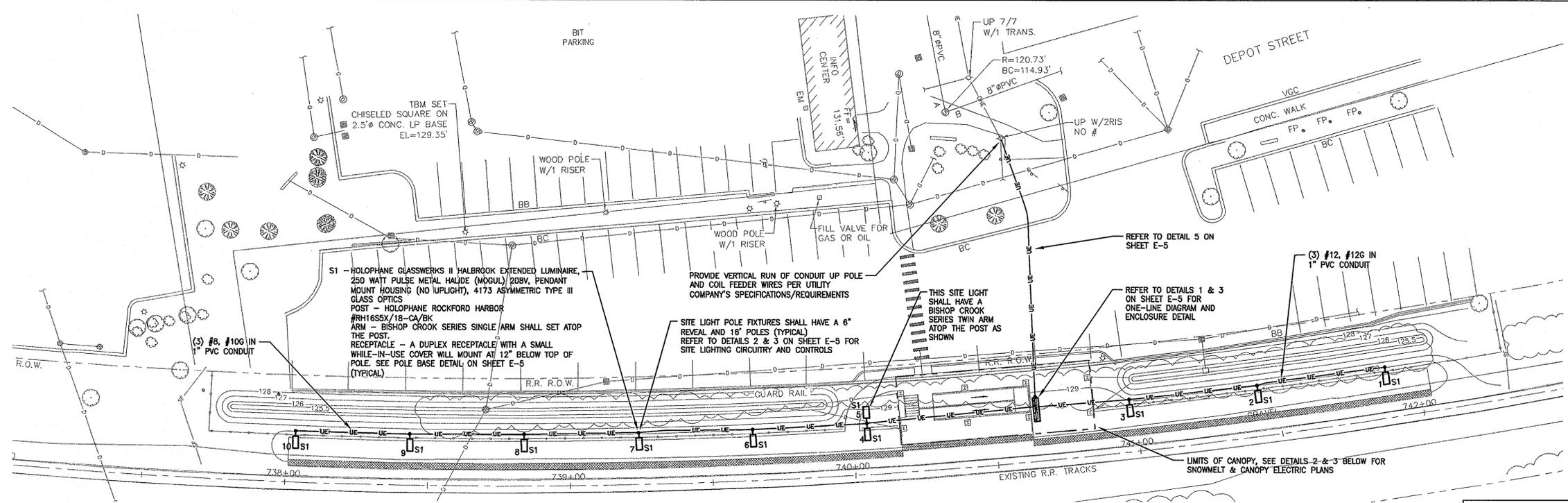


PROJ. MANAGER	P. POTTE	DATE	1/22/11
DESIGNED	DFH	BY	DFH
CHECKED	DFH	DATE	1/22/11
DESIGNED (REVIEWED)	DFH	SIGNATURE	<i>Donald Harris</i>
DESIGNED (REVIEWED)	DFH	P.E. NUMBER	12219
REVISIONS 1		DATE	1/11/11
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
ELECTRIC PLAN
- FREEPORT

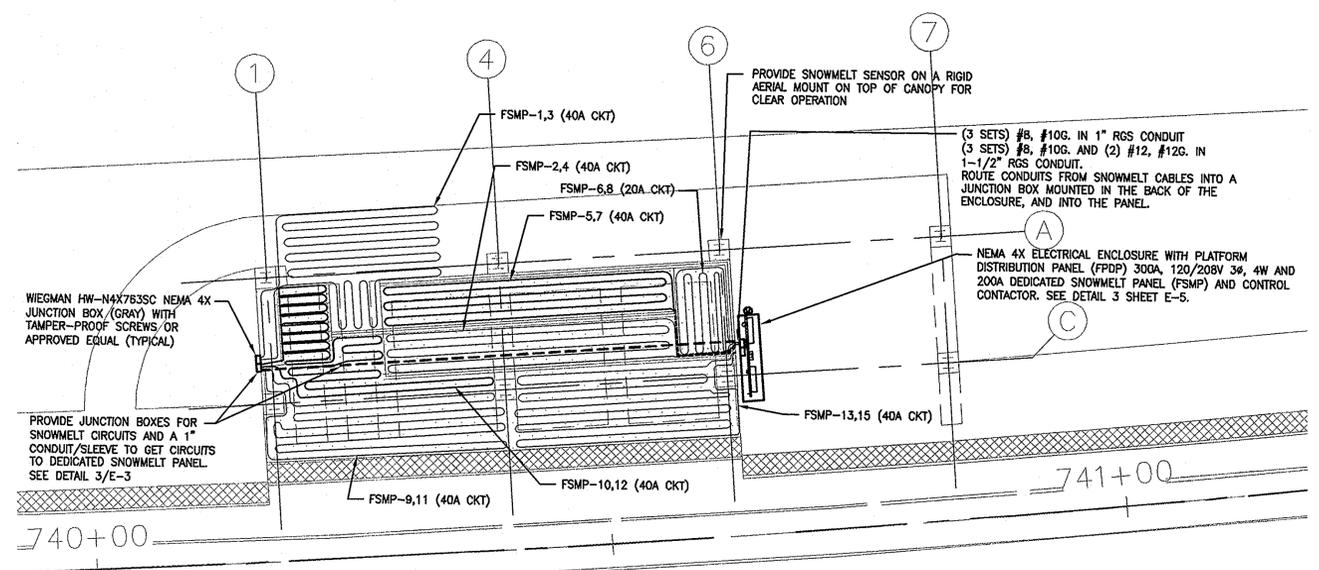
SHEET NUMBER

E-2

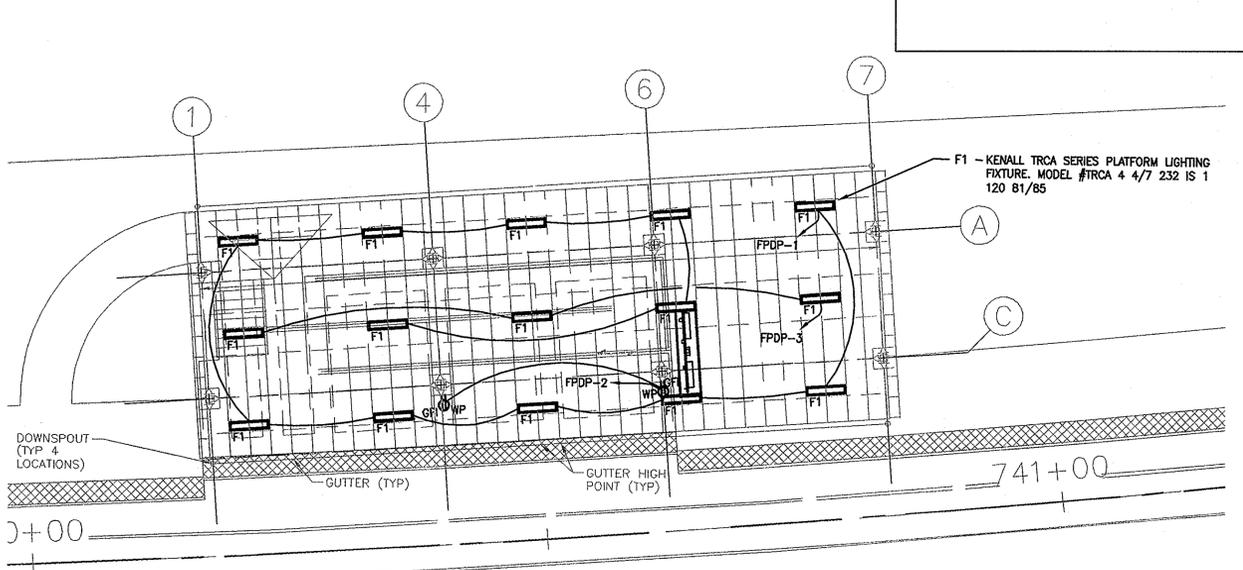


1 SITE ELECTRIC PLAN
E-2
SCALE: 1" = 20'
0 20' 40' 80' FEET

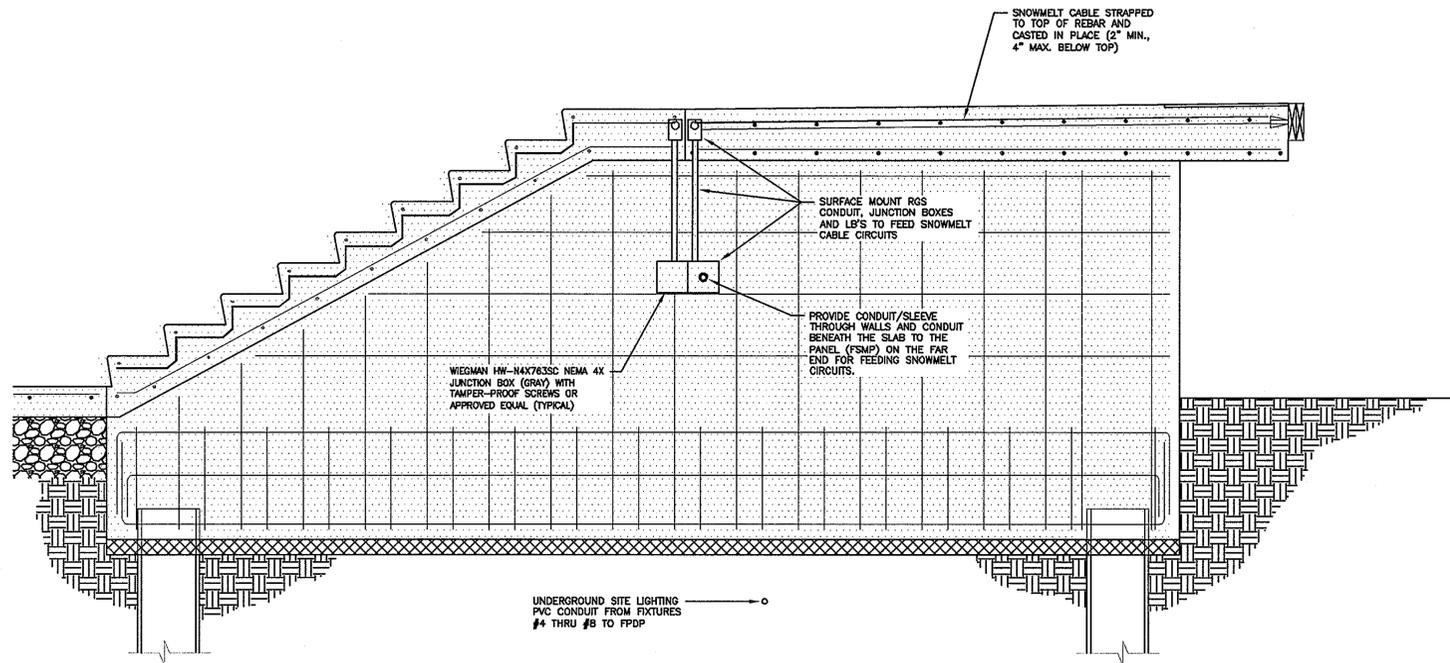
- NOTES:**
- ALL ELECTRICAL WORK ON THIS PAGE IS PART OF PAY ITEM DIVISION 26.
 - THE WORK OF PROVIDING AND INSTALLING THE SNOWMELT CABLES, SNOWMELT PANEL, CONTACTOR, SNOWMELT CONTROLS AND ALL CONDUIT WIRE BETWEEN IS INCLUDED IN THE WORK OF PAY ITEM DIVISION 26.
 - ALL PAVING AND SOIL EXCAVATIONS, FILL REPLACEMENT AND FINISH PAVING OR PLANTING IS INCLUDED IN PAY ITEM DIVISION 31. PROVIDING AND PLACING UNDERGROUND CONDUITS AND WARNING TAPE IS INCLUDED IN PAY ITEM DIVISION 26.



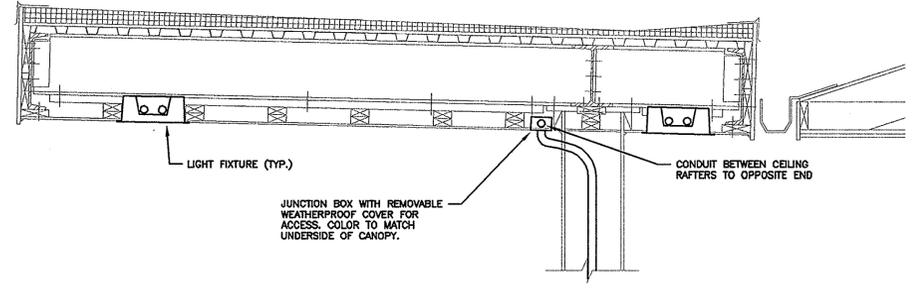
2 SNOWMELT ELECTRIC PLAN
E-1
SCALE: 1/8" = 1'-0"
0 8' 16' 32' FEET



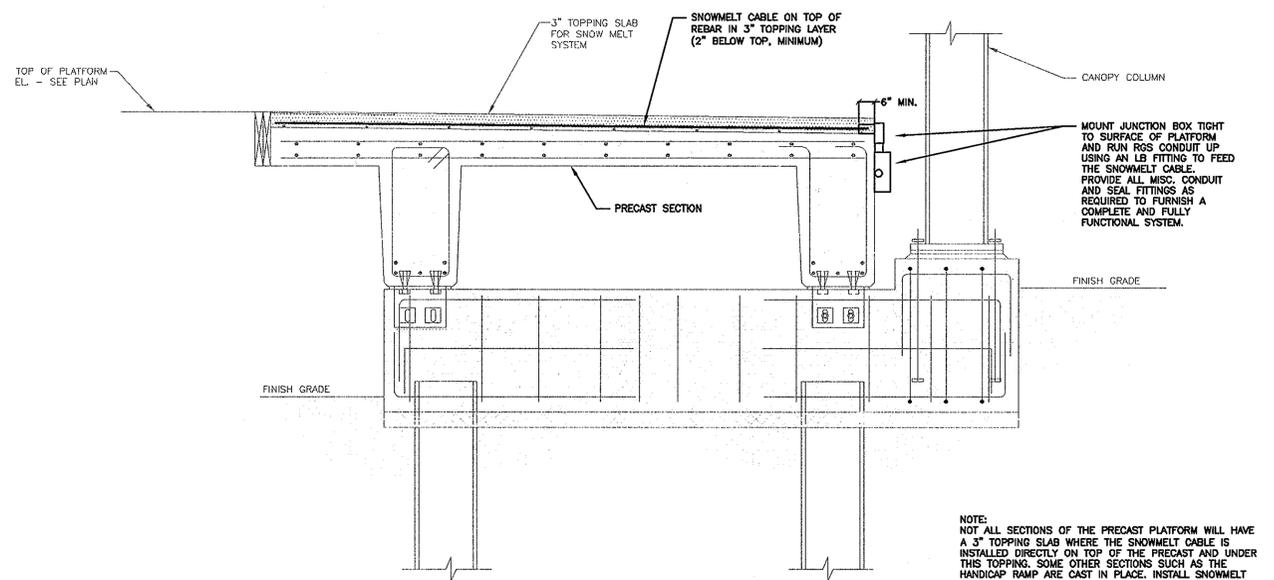
3 CANOPY ELECTRIC PLAN
E-1
SCALE: 1/8" = 1'-0"
0 8' 16' 32' FEET



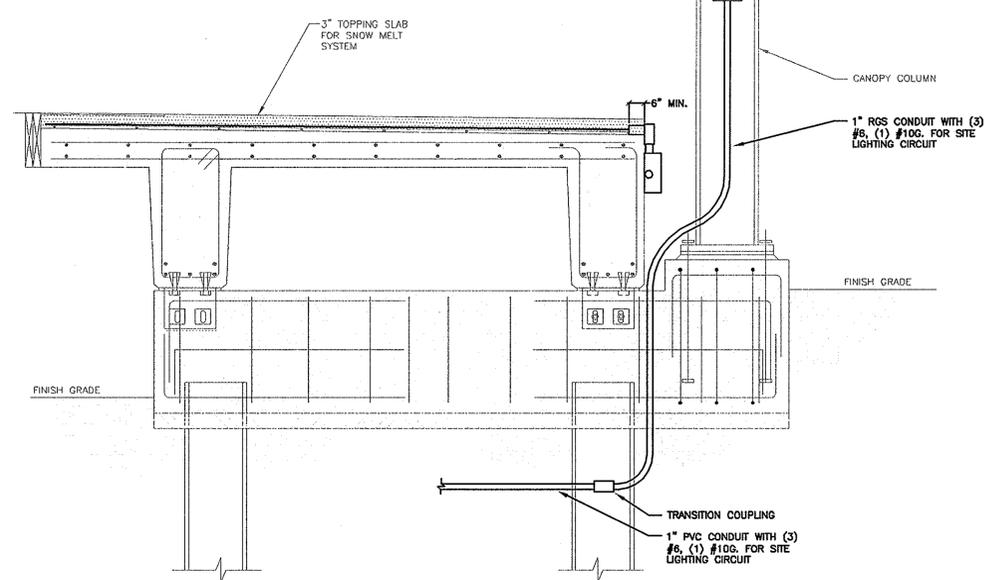
3 SNOWMELT CABLE FEED DETAIL - FREEPORT
SCALE: 1" = 1'-0"



2 SITE LIGHTING CONDUIT CANOPY ROUTING DETAIL - BRUNSWICK
N.T.S.



1 SNOWMELT CABLE FEED DETAIL - BRUNSWICK
SCALE: 1" = 1'-0"



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)



SIGNATURE: Donald P. Harris
P.E. NUMBER: 12219
DATE: 1/11/11

PROJ. MANAGER	P. POTITLE	DATE
DESIGNED	BFO	12/20/10
CHECKED	DPH	12/20/10
DESIGN 1	DPH	
DESIGN 2		
DESIGN 3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

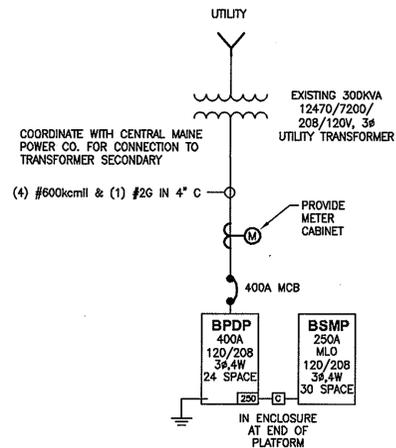
PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
SNOWMELT SYSTEM AND CONDUIT
ROUTING DETAILS

SHEET NUMBER

E-3

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-5022
PH: 603-225-2978 FAX: 603-225-0095

M:\PROJECTS\2011\Rail Platform\Drawings\Final\15236-20.dwg, 1/11/2011 11:48:22 AM

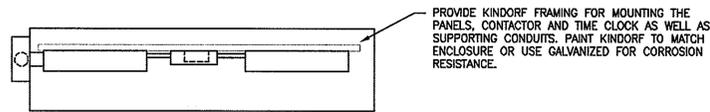


1 ELECTRICAL ONE-LINE DIAGRAM - BRUNSWICK
N.T.S.

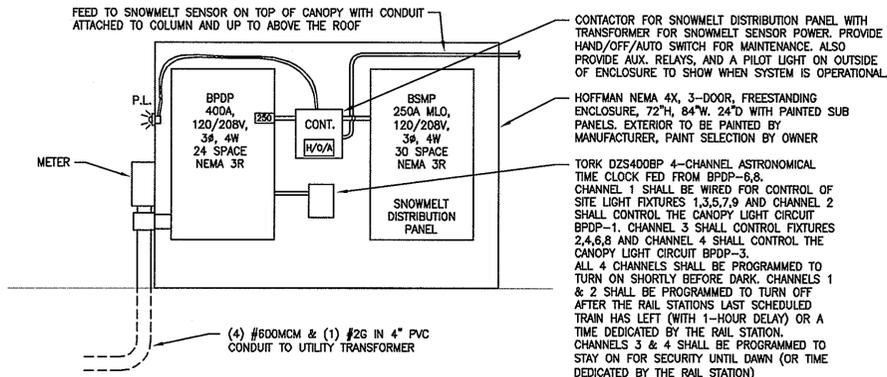
PANEL SCHEDULE - BPDP (BRUNSWICK)										
PLATFORM DISTRIBUTION PANEL - IN ENCLOSURE SC AIC 25,000 MIN.										
AMPS 400 MAIN 400 VOLTS 120/208 PHASE 3 WIRE 4 MOUNTING SURFACE										
CRT. NO.	BRKR.	DESCRIPTION	PHASE LOADS			DESCRIPTION	BRKR.	CRT. NO.		
			A	B	C					
1	20	CANOPY LIGHTING	900			WP RECEPTACLES	20	2		
3	20	CANOPY LIGHTING		300		SPARE	20	4		
5	20	SPARE				SITE LIGHT FIXTURES AND RECEPTACLES	20	6		
7	20	SPARE	2538			SPARE		8		
9	20	SPARE				SPARE	20	10		
11	20	SPARE						12		
13								14		
15								16		
17								18		
19			34643			FEED TO BSMP	250	20		
21				27370				22		
23					25341			24		
S/N			X			GND	X	IG		

PANEL SCHEDULE - BSMP (BRUNSWICK)										
SNOWMELT SYSTEM PANEL - IN ENCLOSURE SC AIC 25,000										
AMPS 400 MAIN MLO VOLTS 120/208 PHASE 3 WIRE 4 MOUNTING SURFACE										
CRT. NO.	BRKR.	DESCRIPTION	PHASE LOADS			DESCRIPTION	BRKR.	CRT. NO.		
			A	B	C					
1	40	SNOWMELT CIRCUIT #1	4817			SNOWMELT CIRCUIT #2	40	2		
3				4817				4		
5	40	SNOWMELT CIRCUIT #3			4817	SNOWMELT CIRCUIT #4	40	6		
7			4817		5138			8		
9	40	SNOWMELT CIRCUIT #5		3918		SNOWMELT CIRCUIT #6	40	10		
11				5116				12		
13	40	SNOWMELT CIRCUIT #7	3889			SNOWMELT CIRCUIT #8	40	14		
15			4492					16		
17	40	SNOWMELT CIRCUIT #9		4492				18		
19					4680	SNOWMELT CIRCUIT #10	20	20		
21	40	SPARE	4680		1672	SPARE	40	22		
23								24		
25								26		
27								28		
29								30		
S/N				34643	27370	25341	GND	X	IG	

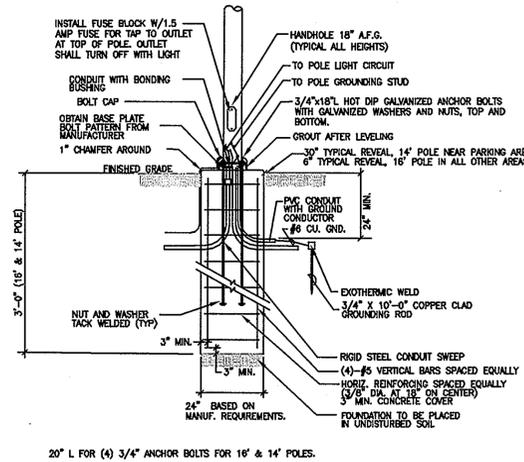
2 ELECTRICAL PANEL SCHEDULES
N.T.S.



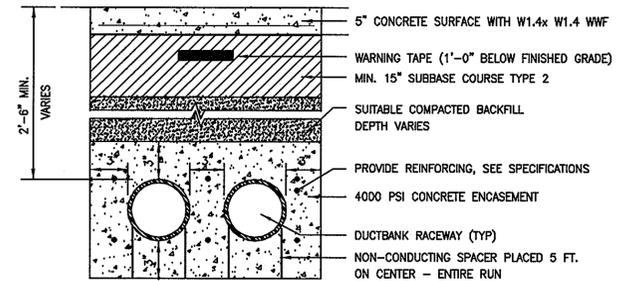
PROVIDE KINDORF FRAMING FOR MOUNTING THE PANELS, CONTACTOR AND TIME CLOCK AS WELL AS SUPPORTING CONDUITS. PAINT KINDORF TO MATCH ENCLOSURE OR USE GALVANIZED FOR CORROSION RESISTANCE.



3 ELECTRICAL ENCLOSURE DETAIL
N.T.S.

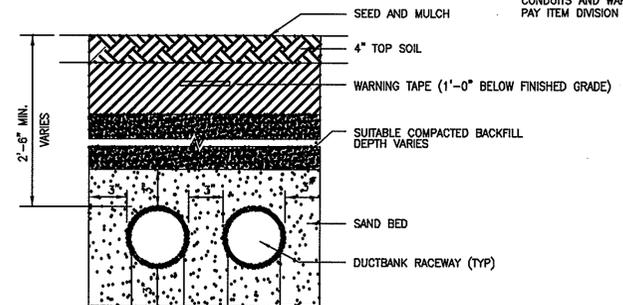


4 SITE LIGHT POLE AND FOUNDATION DETAIL
N.T.S.



NOTES:
TYPICAL FOR SIDEWALKS AND OTHER CONCRETE SURFACED AREAS AND ALL MV VOLTAGE DUCTBANKS

NOTE:
ALL PAVING AND SOIL EXCAVATIONS, FILL REPLACEMENT AND FINISH PAVING OR PLANTING IS INCLUDED IN PAY ITEM DIVISION 31. PROVIDING AND PLACING UNDERGROUND CONDUITS AND WARNING TAPE IS INCLUDED IN PAY ITEM DIVISION 26.



NOTES:
TYPICAL FOR ALL GRASSED AREAS

5 TYPICAL ELECTRICAL DUCTBANK DETAILS
N.T.S.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

STATE OF MAINE
DONALD P. HARRIS
No. 12219
LICENSED PROFESSIONAL ENGINEER

Signature: *Donald P. Harris*
DATE: 1/22/19
P.E. NUMBER: 12219

DATE	BY	REVISION
1/22/19	DPH	ISSUED FOR BIDDING
1/22/19	DPH	REVISION 1
1/22/19	DPH	REVISION 2
1/22/19	DPH	REVISION 3
1/22/19	DPH	REVISION 4

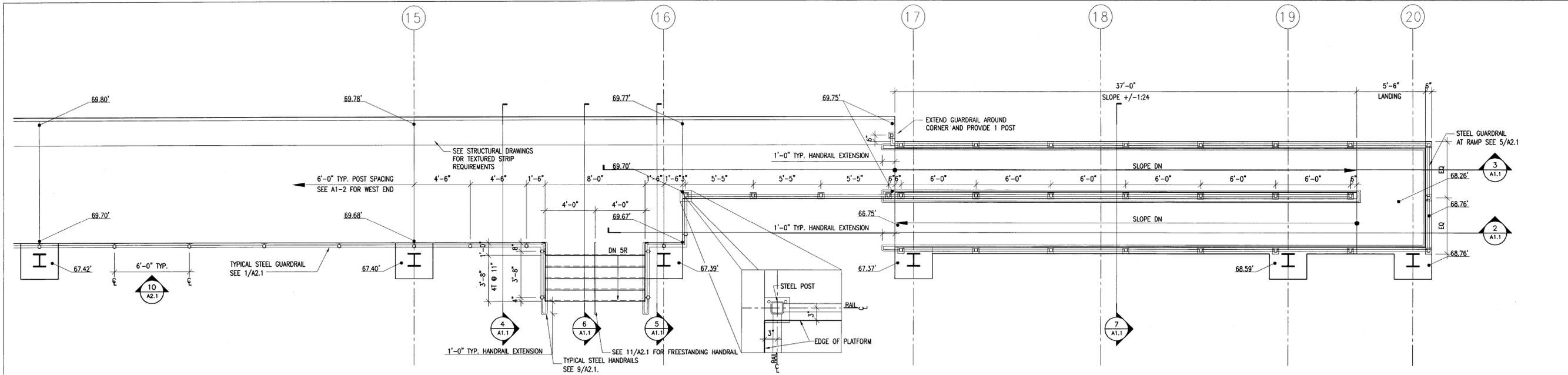
PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
BRUNSWICK ELECTRIC DETAILS

SHEET NUMBER

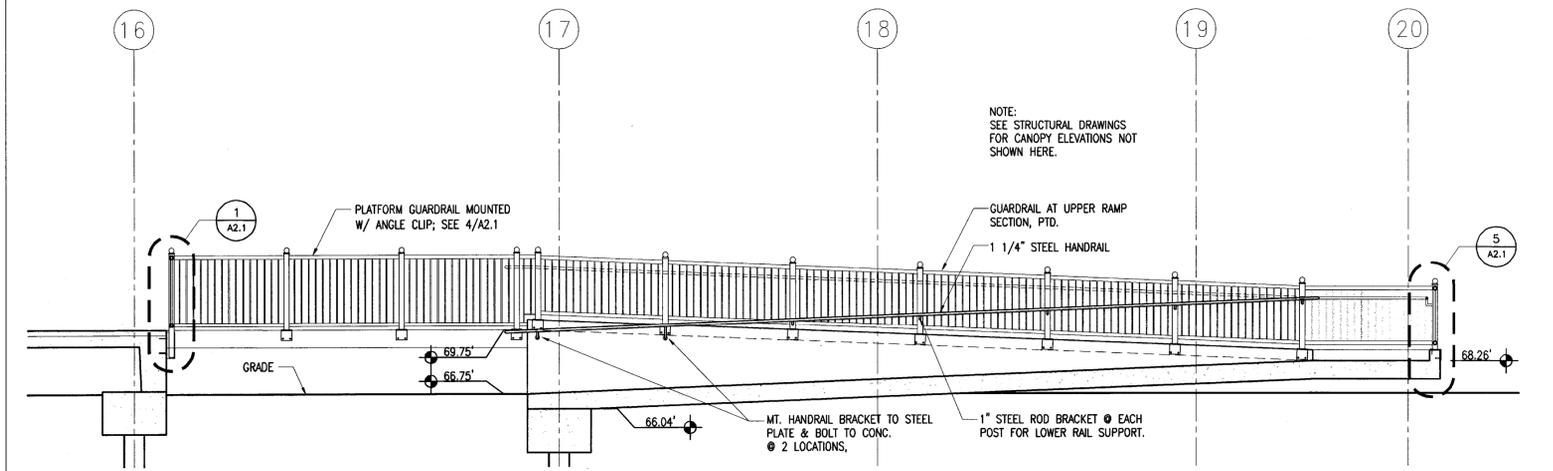
E-4

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-5022
PH: 603-225-2978 FAX: 603-225-0095

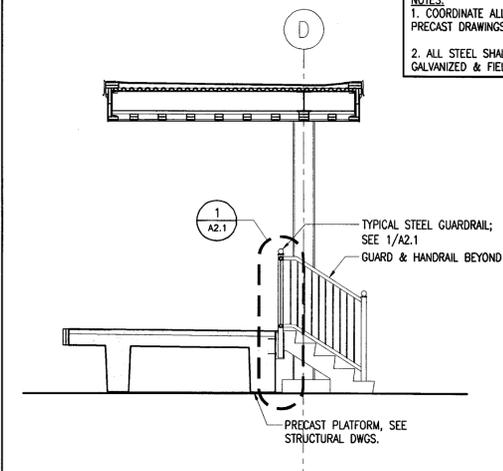
16/12/2018 10:27 AM Plotted by: jmh/16/12/2018 10:27 AM



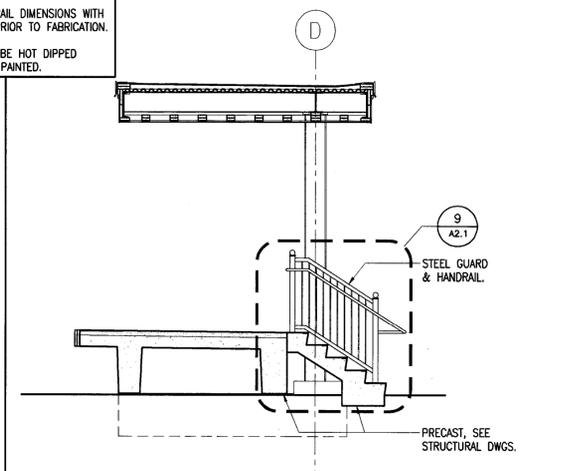
1 EAST END RAMP AND STAIR PLAN
 A1.1 1/4" = 1'-0"



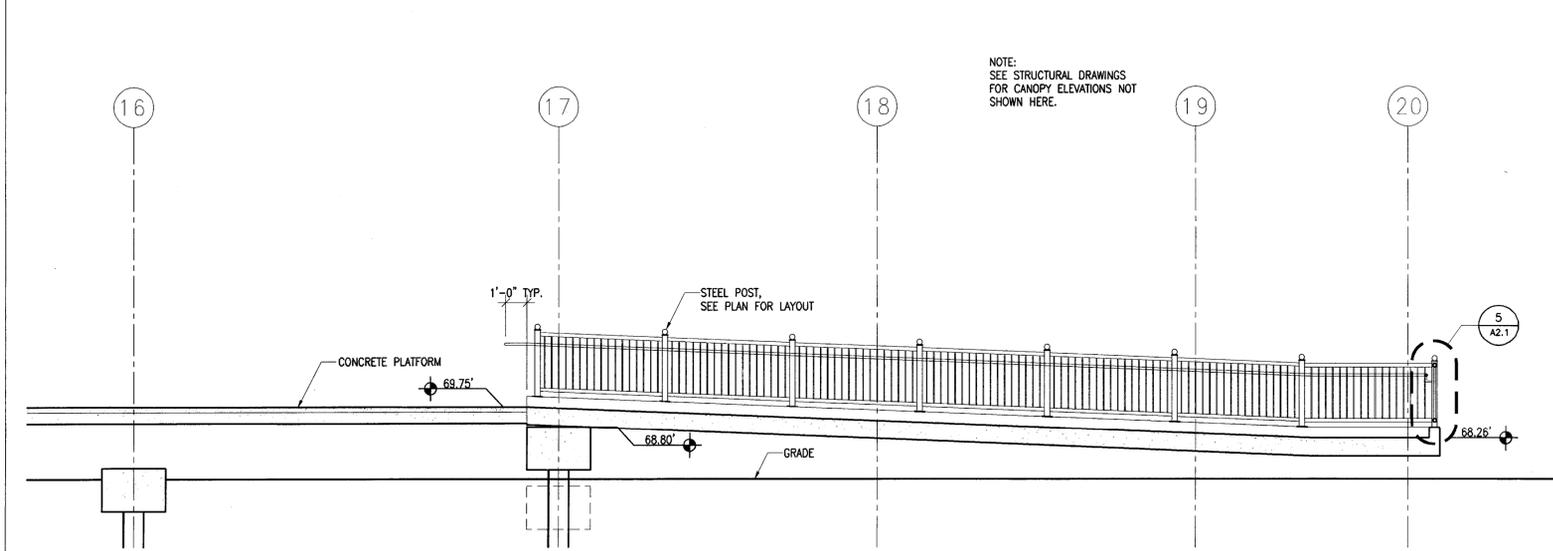
2 EAST END RAMP SECTION 'A'
 A1.1 1/4" = 1'-0"



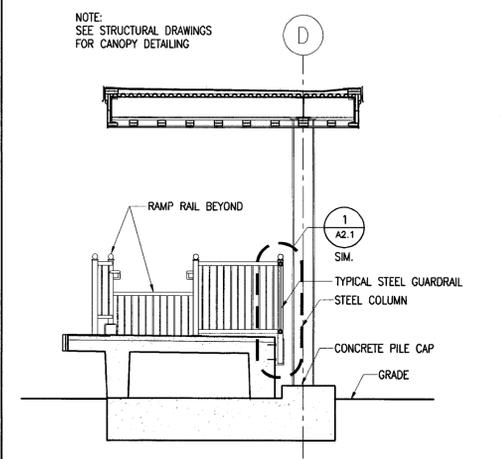
4 TYPICAL PLATFORM SECTION
 A1.1 1/4" = 1'-0"



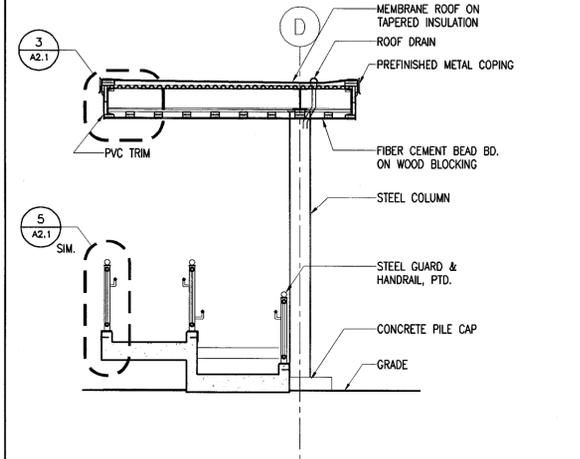
6 PLATFORM STAIR SECTION
 A1.1 1/4" = 1'-0"



3 EAST END RAMP SECTION 'B'
 A1.1 1/4" = 1'-0"



5 PLATFORM SECTION
 A1.1 1/4" = 1'-0"



7 RAMP CROSS SECTION
 A1.1 1/4" = 1'-0"

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STATE PROJECT NUMBER 15236
 PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

Jonathan R. Hallis
 No. 32256
 01/17/2010

PROJECT MANAGER	P. ROTTLE	BY	DATE	SIGNATURE	NUMBER	DATE
DESIGN DETAILED		JL	12/27/10			
CHECKED/REVIEWED		JL	12/27/10			
DESIGN DETAILED 2						
DESIGN DETAILED 3						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

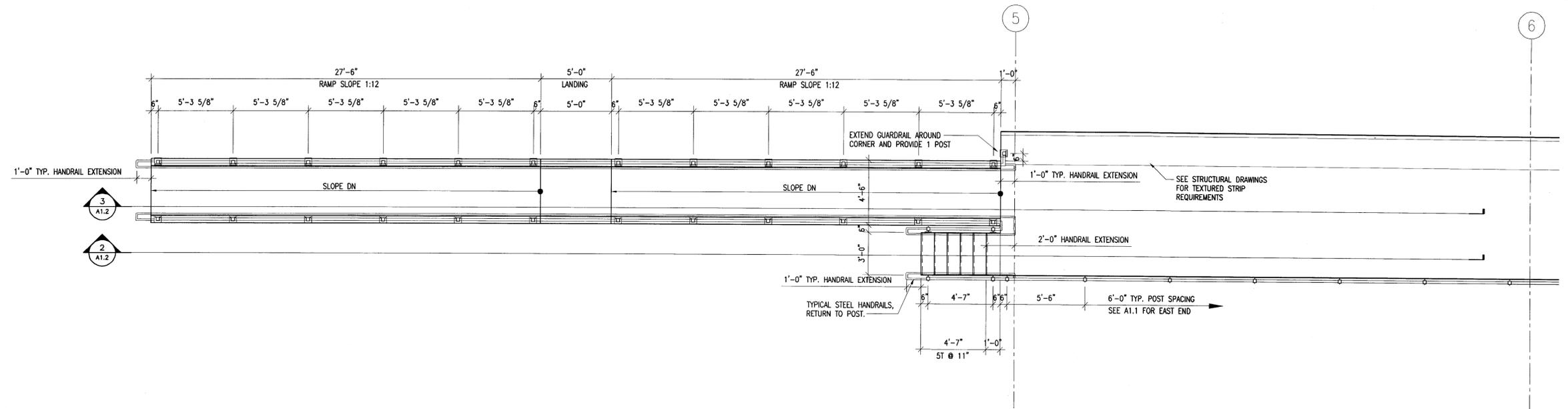
PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 BRUNSWICK PLATFORM
 EAST END PLANS AND SECTIONS

SHEET NUMBER

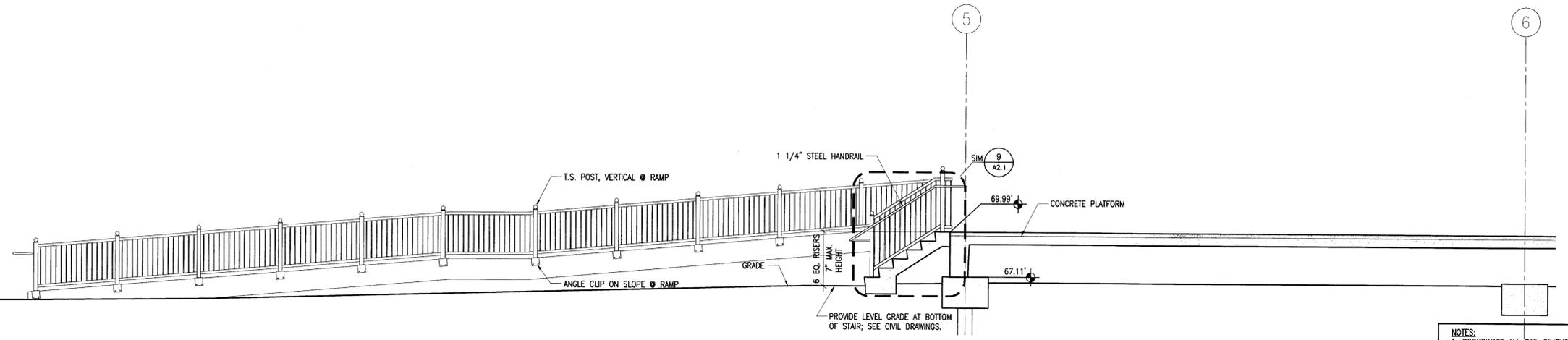
A1.1

WARRENSTREET ARCHITECTS
 27 WARREN STREET CONCORD, NH 03301
 T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

McFarland Johnson
 53 REGIONAL DRIVE, CONCORD, NH 03301-8500
 PH: 603-225-2978 FAX: 603-225-0095

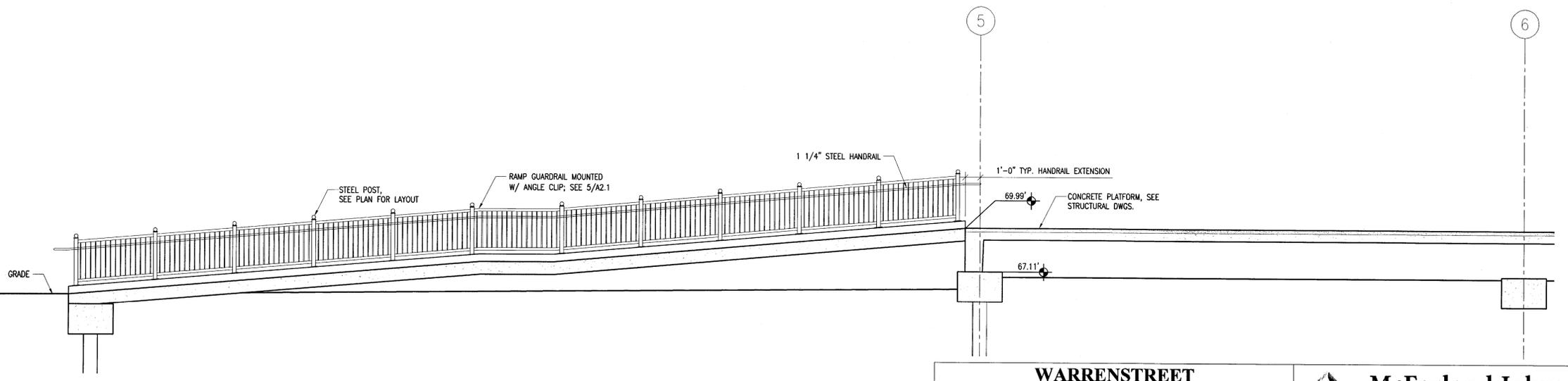


1 WEST END RAMP AND STAIR PLAN
1/4" = 1'-0"



2 WEST END STAIR SECTION
1/4" = 1'-0"

NOTES:
1. COORDINATE ALL RAIL DIMENSIONS WITH PRECAST DRAWINGS PRIOR TO FABRICATION.
2. ALL STEEL SHALL BE HOT DIPPED GALVANIZED & FIELD PAINTED.



3 WEST END RAMP SECTION
1/4" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236
PIN 15236.20 (BRUNSWICK) PIN 15236.30 (FREEPORT)

DESIGNED ARCHITECT
Jonathan R. Hails
No. 3258
STATE OF MAINE

PROJECT MANAGER	P. POTTLE	BY	DATE
DESIGNED/REVIEWED	JL	JL	10/28/10
CHECKED/REVIEWED	JL	JL	10/28/10
DESIGN 2/2 DETAILED 2			
DESIGN 3/3 DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY
BRUNSWICK PLATFORM
WEST END PLANS AND SECTIONS

SHEET NUMBER
A1.2

WARRENSTREET ARCHITECTS
27 WARREN STREET CONCORD, NH 03301
T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-8500
PH: 603-225-2978 FAX: 603-225-0095

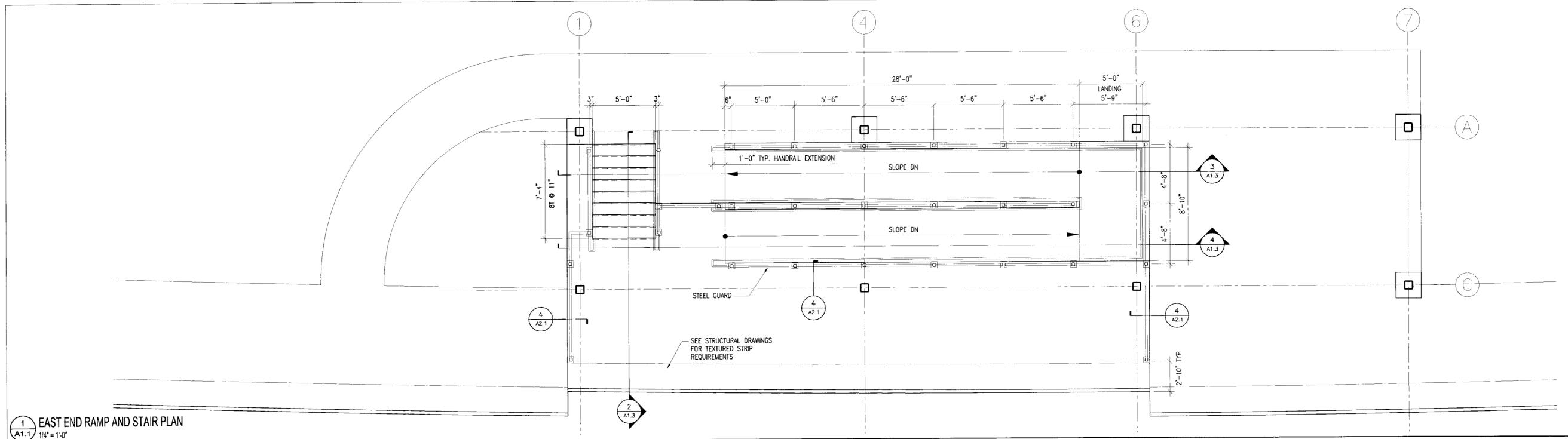
[Signature]

PROJECT MANAGER	P. POTTLE	BY	DATE
DESIGNED/TAILED	JL	JL	12/23/10
CHECKED/REVIEWED	JL	JL	12/23/10
DESIGN 30-DETAILED 2			
DESIGN 30-DETAILED 3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

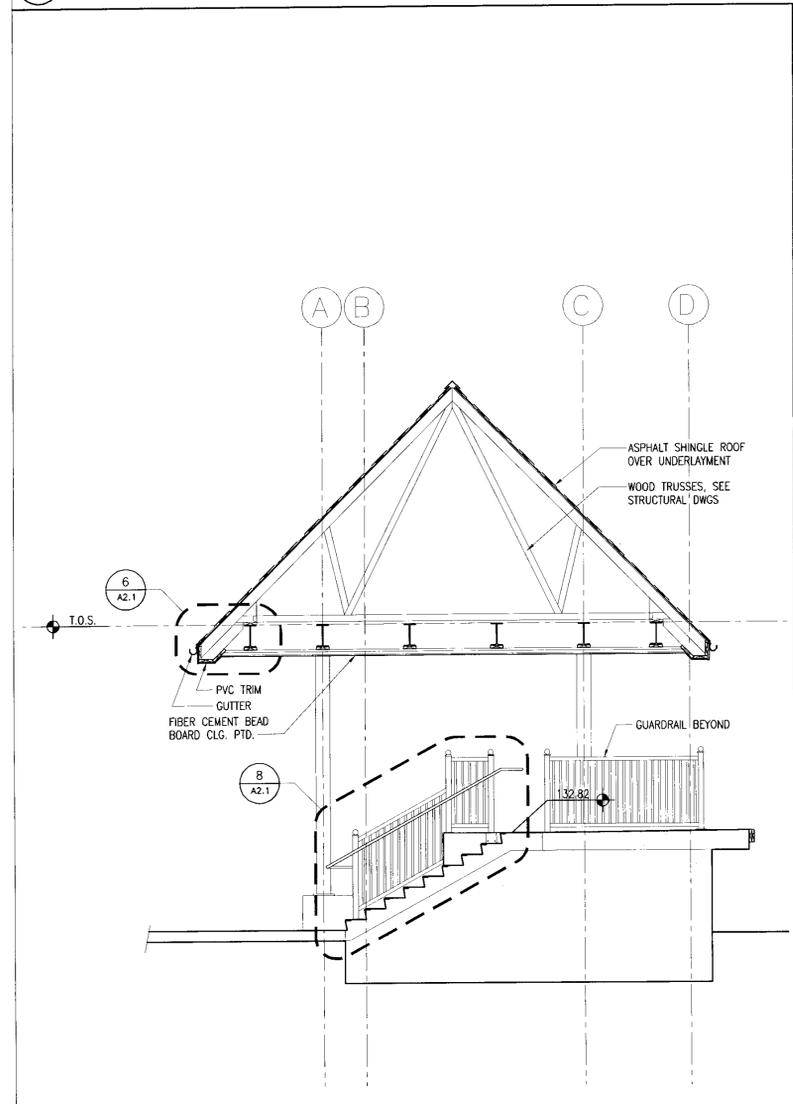
PASSENGER RAIL PLATFORMS
 TOWNS OF BRUNSWICK AND FREEPORT
 CUMBERLAND COUNTY
 FREEPORT PLATFORM
 PLANS AND SECTIONS

SHEET NUMBER

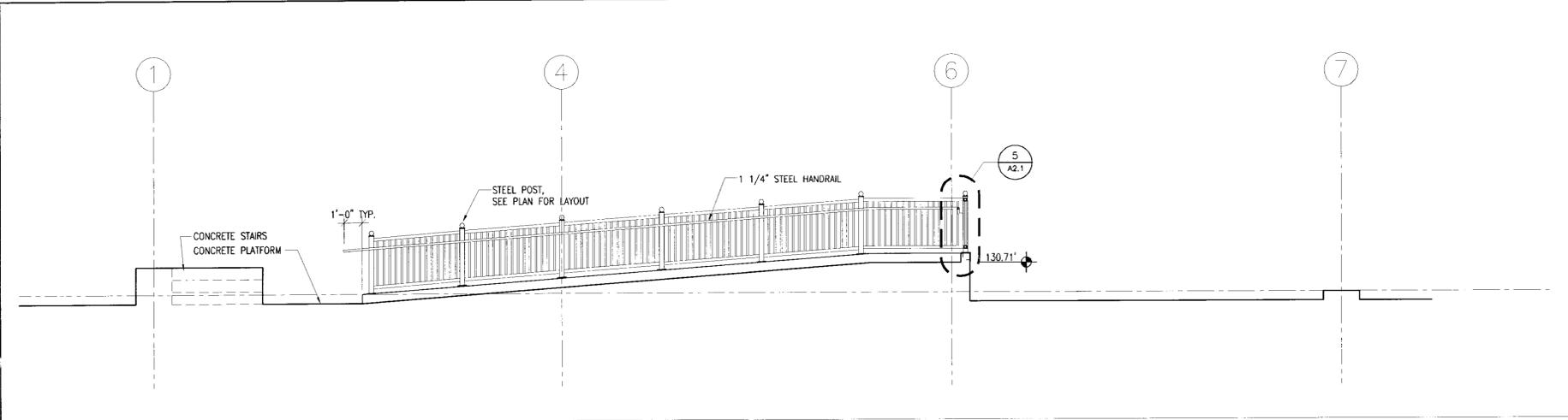
A1.3



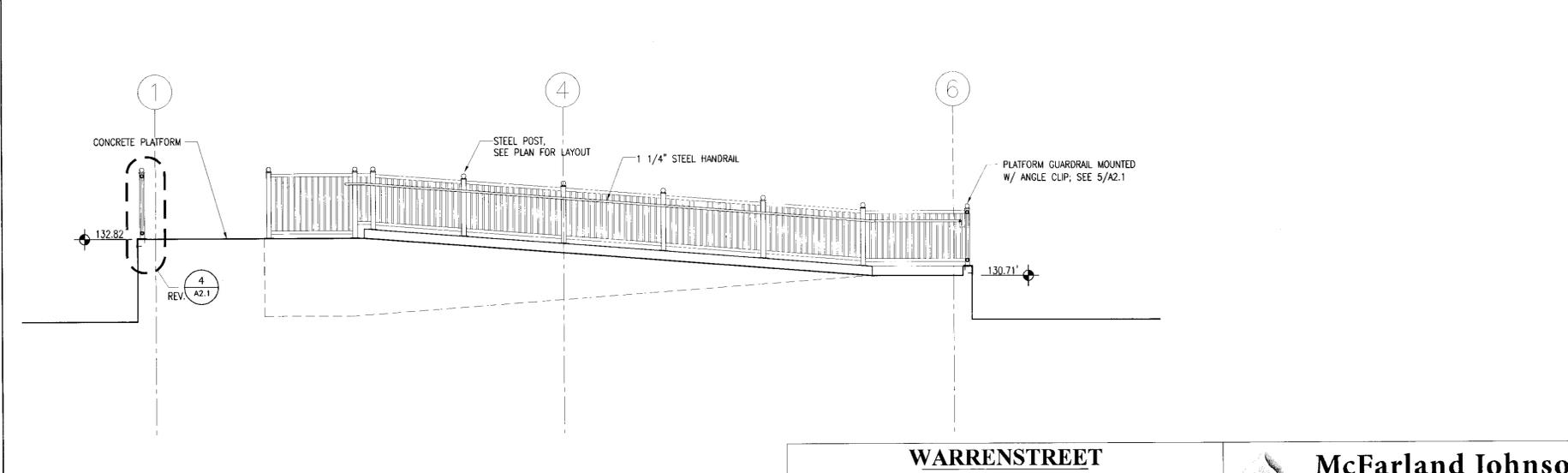
1 EAST END RAMP AND STAIR PLAN
 1/4" = 1'-0"



2 PLATFORM STAIR SECTION
 1/4" = 1'-0"



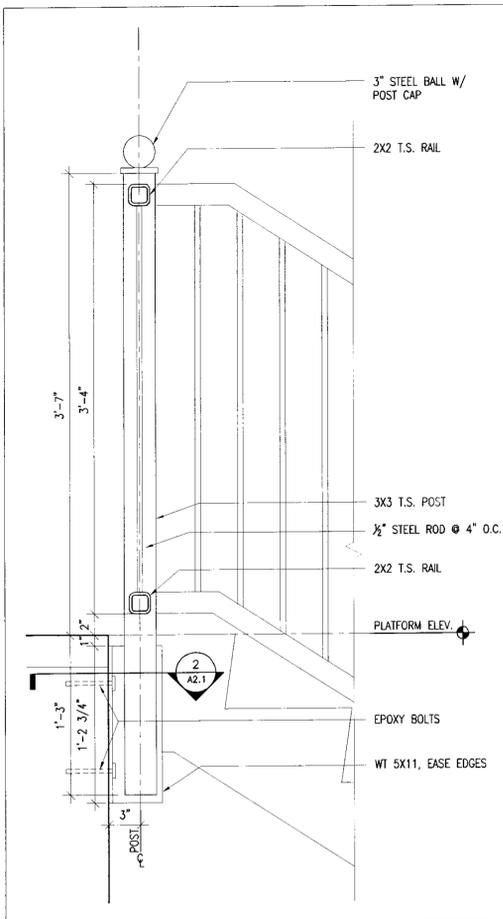
3 LOWER RAMP SECTION
 1/4" = 1'-0"



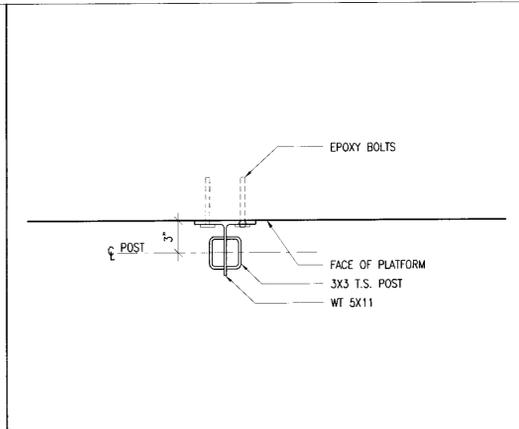
4 UPPER RAMP SECTION
 1/4" = 1'-0"

WARRENSTREET ARCHITECTS
 27 WARREN STREET CONCORD, NH 03301
 T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

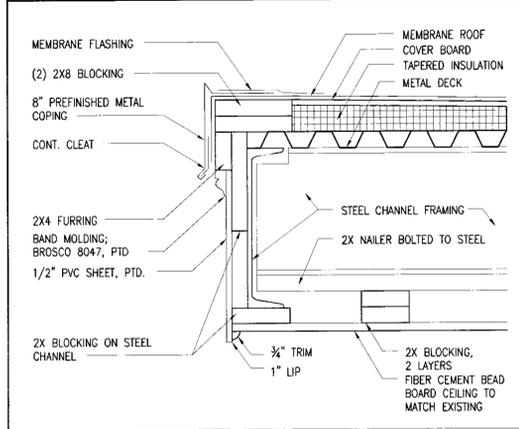
McFarland Johnson
 53 REGIONAL DRIVE, CONCORD, NH 03301-8500
 PH: 603-225-2978 FAX: 603-225-0095



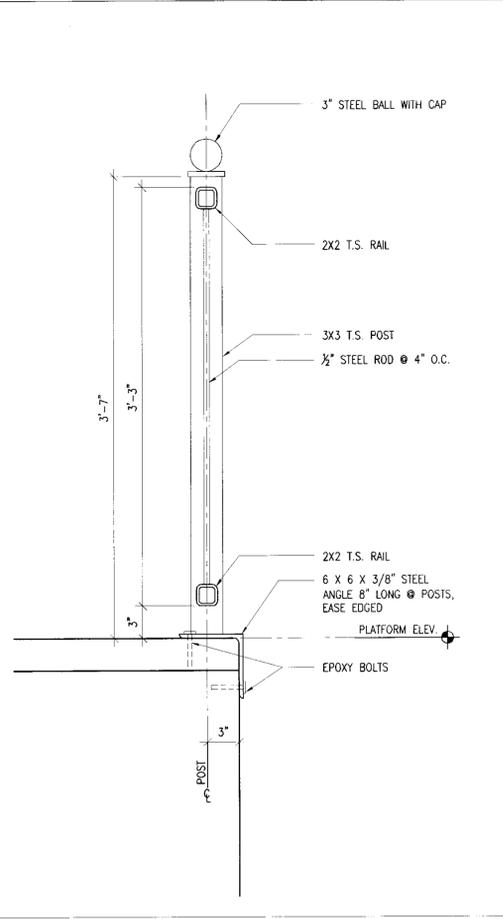
1 TYPICAL GUARDRAIL SECTION DETAIL
A1.1 1 1/2" = 1'-0"



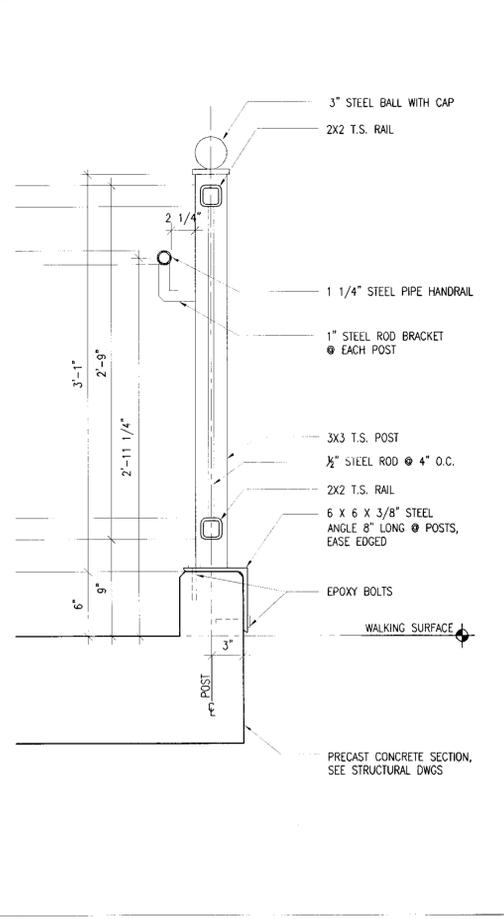
2 TYPICAL GUARDRAIL ATTACHMENT PLAN DETAIL
A1.2 1 1/2" = 1'-0"



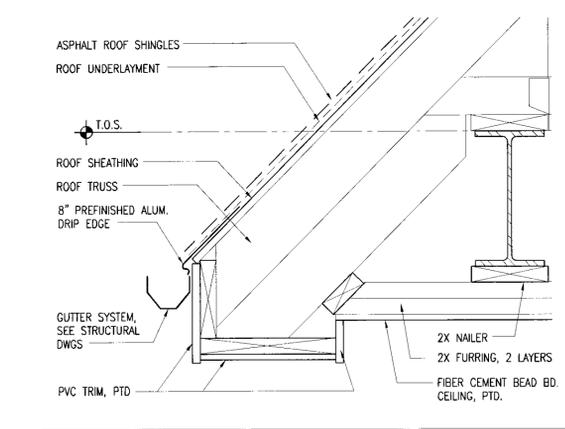
3 BRUNSWICK RAIL PLATFORM ROOF EDGE
A1.1 1 1/2" = 1'-0"



4 STEEL GUARDRAIL SECTION DETAIL
A1.1 1 1/2" = 1'-0"



5 TYPICAL RAIL & HANDRAIL SECTION DETAIL @ RAMPS
A1.1 1 1/2" = 1'-0"

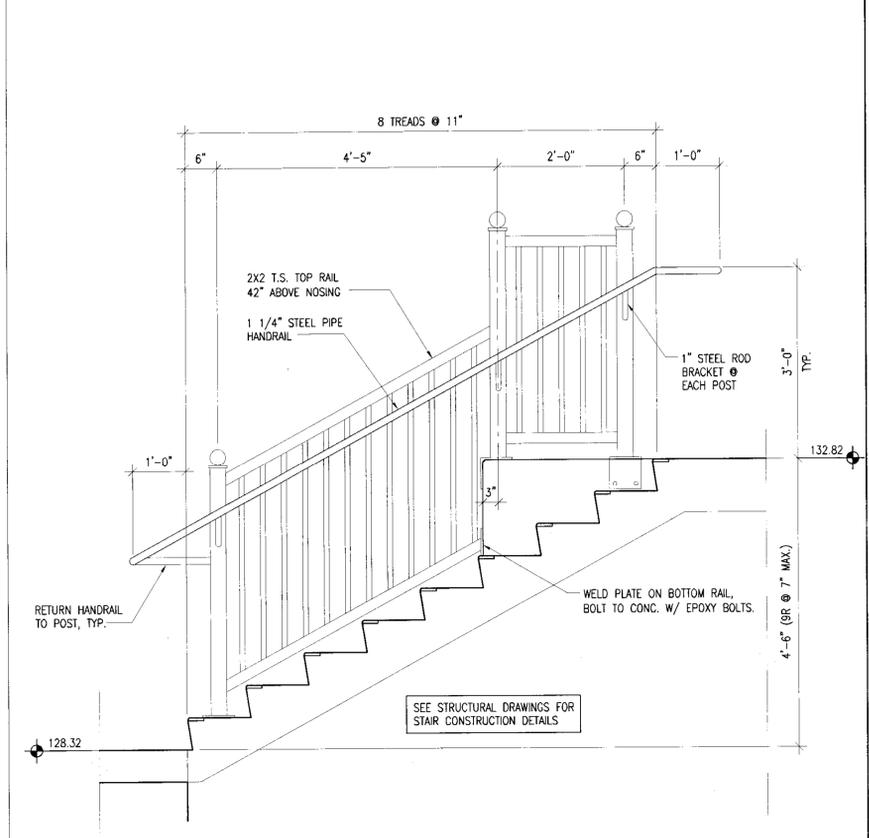


6 FREEPORT ROOF EDGE DETAIL
A1.3 1 1/2" = 1'-0"

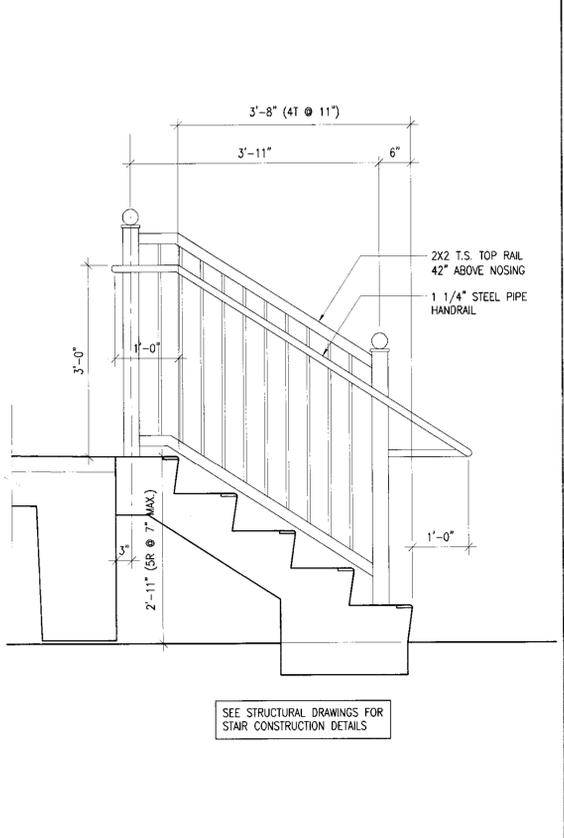
THE RAILING SECTION THICKNESSES AND BOLT CONNECTION DESIGN IS AS FOLLOWS:

- 2 X 2 X 3/16 T.S. RAIL
- 3 X 3 X 1/4 T.S. POST
- 1 1/4" STEEL PIPE HANDRAIL X-STRONG
- HILTI HIT HY150 ADHESIVE WITH 4 (AT EACH CONNECTION TOTAL) - 1/2" DIA. 4 1/4" EMBEDMENT HAS. STAINLESS STEEL THREADED RODS
- NOTE: PLACE 2 THREADED RODS IN THE HORIZONTAL LEG OF THE ANGLE (DETAILS 4 AND 5) WITH A 2 1/8" EDGE DISTANCE.
- NOTE: SET PROJECTION OF THREADED RODS TO ENABLE THE PLACEMENT OF NUT AFTER GUARDRAIL IS SET.

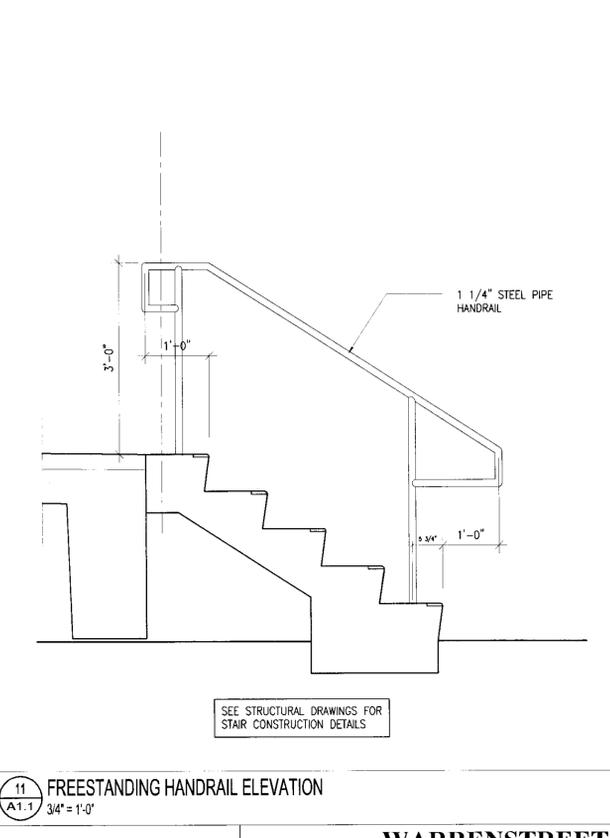
7 STEEL RAIL MATERIAL SIZE LIST
A1.2 N/A



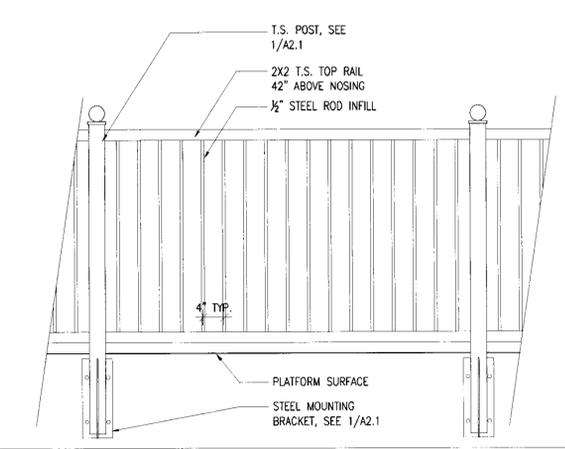
8 STAIR SECTION / RAIL ELEVATION AT FREEPORT
A1.3 3/4" = 1'-0"



9 STAIR SECTION / RAIL ELEVATION @ BRUNSWICK
A1.1 3/4" = 1'-0"



11 FREESTANDING HANDRAIL ELEVATION
A1.1 3/4" = 1'-0"



10 TYPICAL GUARDRAIL ELEVATION
A1.1 3/4" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STATE PROJECT NUMBER 15236

PIN 15236-20 (BRUNSWICK) PIN 15236-30 (FREEPORT)

PROJECT MANAGER	DATE	BY	DATE	SIGNATURE	NUMBER	DATE
P. POTTE	10/28/10	JL	10/28/10			
DESIGNED/DRAWN						
CHECKED/REVIEWED						
DESIGN 2/3/4/5/6/7/8/9/10						
DESIGN 11/12/13/14/15/16/17/18/19/20						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

PASSENGER RAIL PLATFORMS
TOWNS OF BRUNSWICK AND FREEPORT
CUMBERLAND COUNTY

RAILING DETAILS
SHEET NUMBER
A2.1

WARRENSTREET ARCHITECTS
27 WARREN STREET CONCORD, NH 03301
T 603.225.0640 F 603.225.0621 www.warrenstreet.coop

McFarland Johnson
53 REGIONAL DRIVE, CONCORD, NH 03301-8500
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