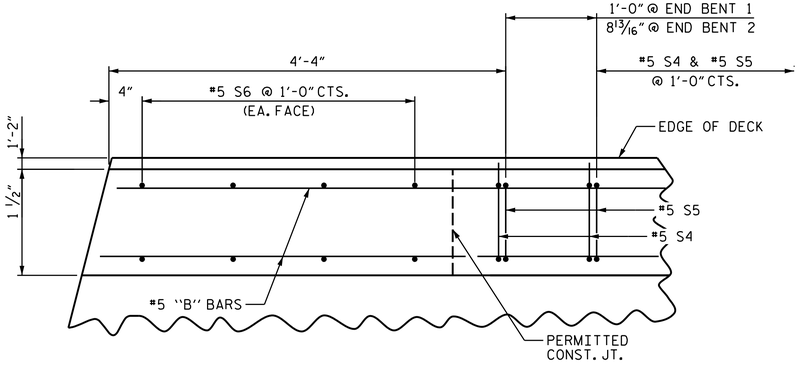
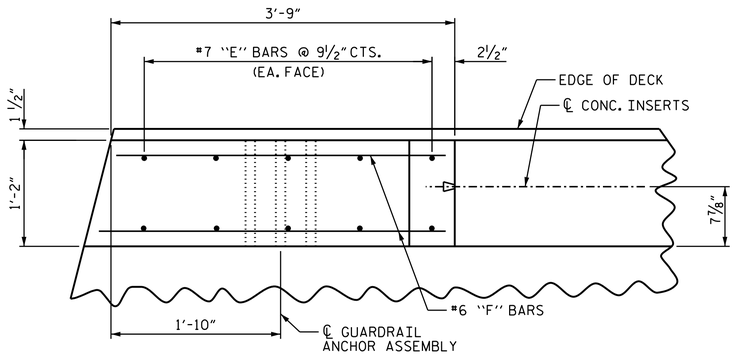
DocuSign Envelope ID: 2AD1449B-C1F3-4078-88A7-D2AACDD998A5



PLAN OF PARAPET



PLAN OF END POST

NOTES:

CONCRETE PARAPET IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN TAHT UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

ALL REINFORCING STEEL IN PARAPETS AND END POSTS SHALL BE EPOXY COATED.

FOR DETAILS OF CONCRETE INSERTS IN END POSTS, SEE "RAIL POST SPACINGS AND END OF RAIL DETAILS" SHEET.

THE #5 S4 AND #5 S5 BARS MAY BE SHIFTED SLIGHTLY IN ORDER TO MAINTAIN A 2" MIN. CLEARANCE TO THE 1/2" EXPANSION JOINT MATERIAL IN PARAPET.

GROOVED CONTRACTION JOINTS 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF PARAPET SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR DETAILS AND LOCATION OF GUARDRAIL ANCHOR ASSEMBLIES, SEE "GUARDRAIL ANCHORAGE DETAILS FOR METAL RAILS" SHEETS.

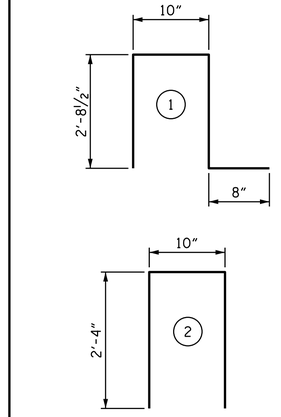
BILL OF MATERIAL

FOR CONCRETE PARAPET AND END POSTS ONLY

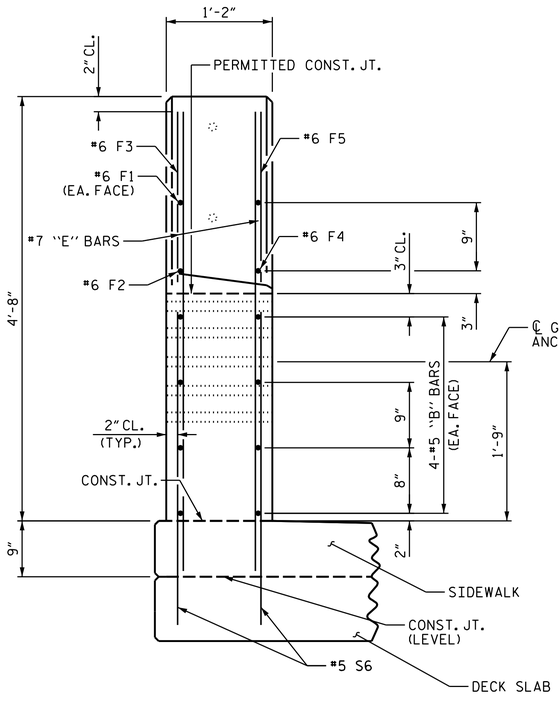
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
* B1	72	#5	STR	19'-7"	1471
* B2	16	#5	STR	8'-11"	149
* B3	16	#5	STR	11'-5"	191
* E1	4	#7	STR	2'-6"	20
* E2	4	#7	STR	3'-0"	24
* E3	4	#7	STR	3'-6"	29
* E4	4	#7	STR	4'-0"	33
* E5	4	#7	STR	4'-4"	35
* F1	4	#6	STR	2'-2"	13
* F2	2	#6	STR	2'-9"	8
* F3	2	#6	STR	3'-5"	10
* F4	2	#6	STR	3'-6"	10
* F5	2	#6	STR	4'-3"	13
* S4	205	#5	1	6'-11"	1479
* S5	205	#5	2	5'-6"	1176
* S6	16	#5	STR	3'-9"	63

* EPOXY COATED REINFORCING STEEL	4661 LBS.
CLASS AA CONCRETE	23.4 CU. YDS.
2'-6" CONCRETE PARAPET	213.07 LIN. FT.

BAR TYPES

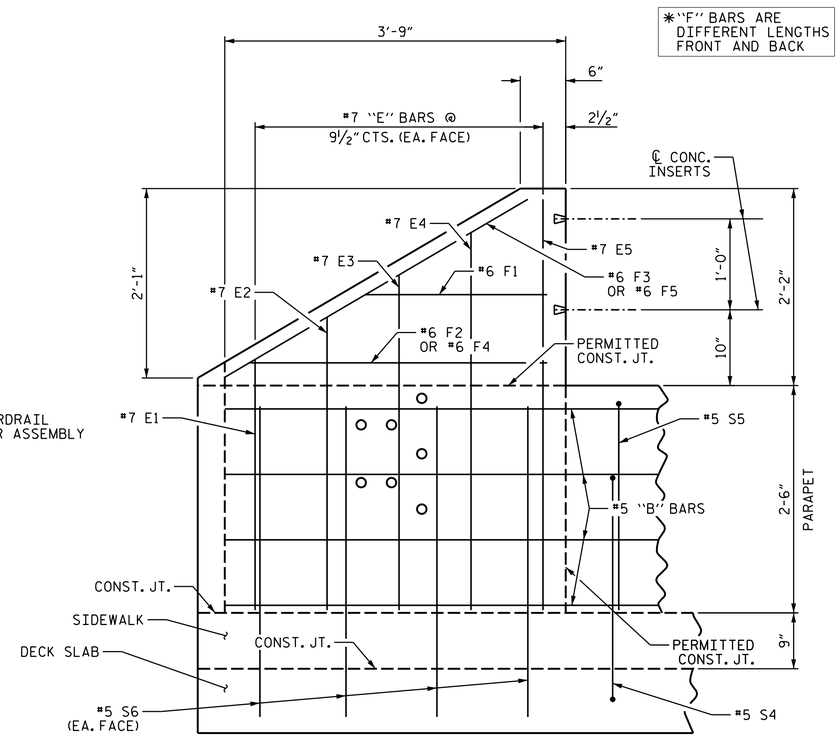


ALL BAR DIMENSIONS ARE OUT TO OUT



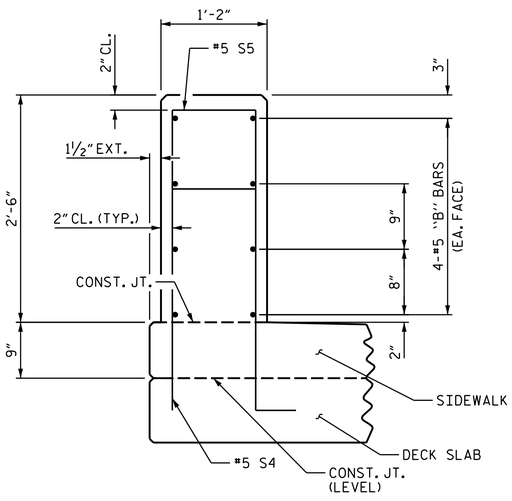
END VIEW

SHOWN AT END BENT 1, AT END BENT 2, F2/F4 BARS, F3/F5 BARS REVERSED.



ELEVATION

SHOWN AT END BENT 1, END BENT 2 SIMILAR



SECTION THRU PARAPET

PROJECT NO. B-5717

GUILFORD COUNTY

STATION: 21+22.00 -L-

SHEET 3 OF 3

PARAPET AND END POST FOR TWO BAR RAIL

DRAWN BY :	B.D. HODACK	DATE :	05/2021
CHECKED BY :	S. NATARAJAN	DATE :	05/2021
DESIGNED BY :	B.D. HODACK	DATE :	05/2021
DESIGN CHECKED BY :	S. NATARAJAN	DATE :	05/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

AECOM
AECOM TECHNICAL SERVICES OF NC, INC.
5438 WADE PARK BOULEVARD, SUITE 200
RALEIGH, NC 27607
(919) 854-6200 www.aecom.com
AECOM License No. F-0342

NORTH CAROLINA PROFESSIONAL SEAL 041343 ENGINEER GREGORY R. COLE
Docusigned by: 18DCFCC2C0F4496...
4/8/2022

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

PARAPET AND END POST DETAILS FOR TWO BAR METAL RAIL

(LEFT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-19
1			3			TOTAL SHEETS
2			4			38

DATE: 3/31/2022
TIME: 3:47:40 PM
USER: dphildrum
DGN: pw:\\decom-na-pw.bentley.com:AECOM_DSD_NA_2020\Documents\60592827-NCDOT SMU B-5717\900-CAD GIS\910_CADD_NCDOT_TIP\Structures\04 Drawings\402_03T_B-5717_SMU_CBR3_S2-19_400(2).dgn