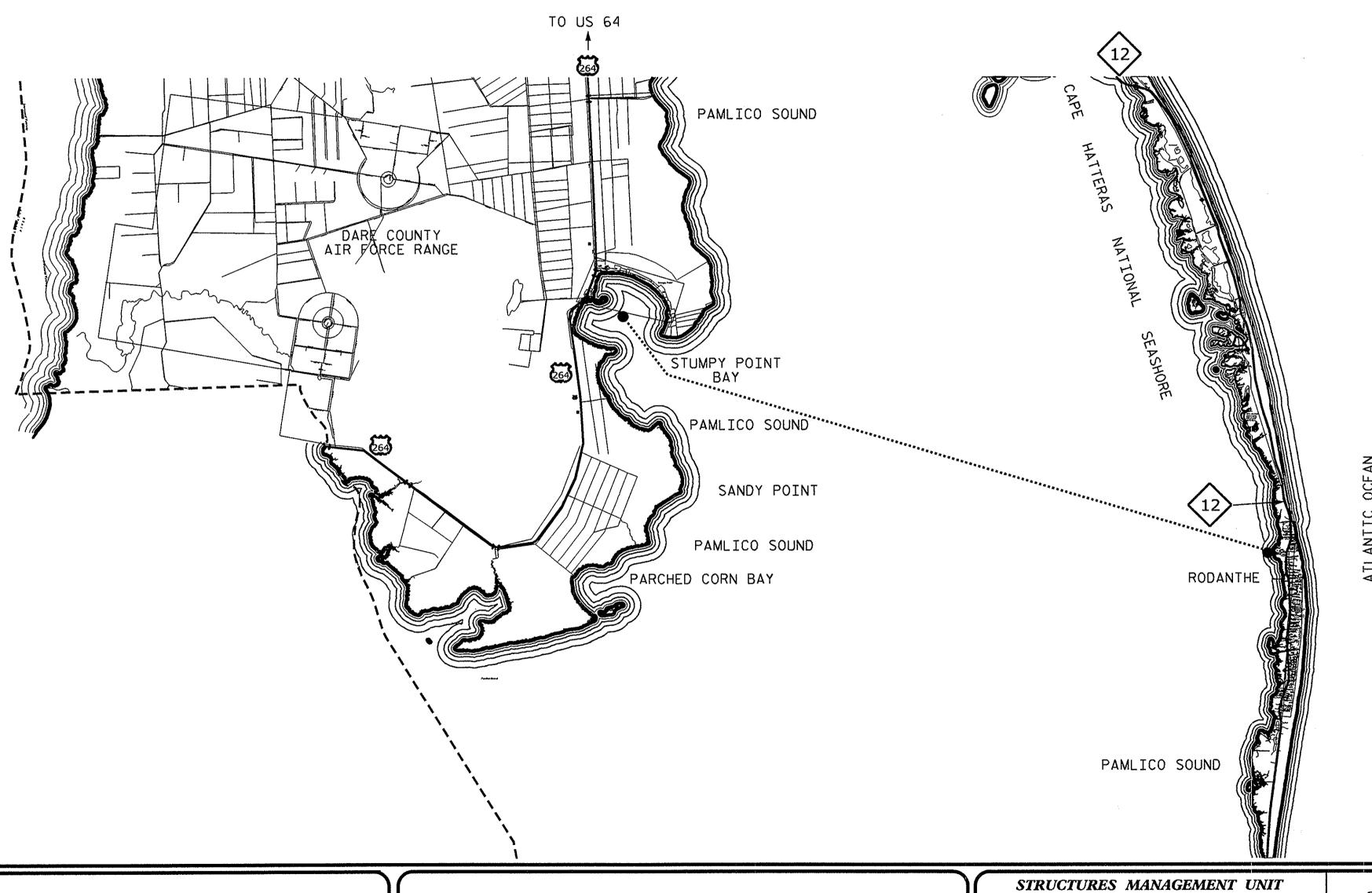


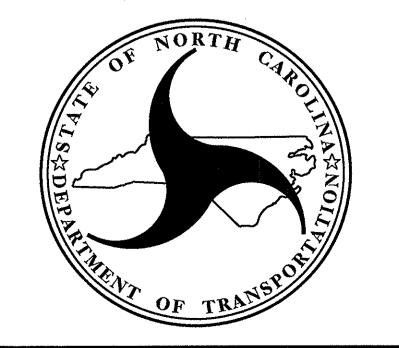
STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

DARE COUNTY

LOCATION: RODANTHE FERRY BASIN TYPE OF WORK: SAFETY IMPROVEMENTS, PAINTING, LIFT SYSTEM REPLACEMENT, GRADING AND PAVING & STRUCTURAL MAINTENANCE





Prepared in the Office of: DIVISION OF HIGHWAYS 2012 STANDARD SPECIFICATIONS O. R. AZIZI, P.E. PROJECT ENGINEER LETTING DATE: A. K. PASCHAL, P.E. PROJECT DESIGN ENGINEER FEBRUARY 19, 2013

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA STATE DESIGN ENGINEER

F-5503B

F-5503B

43652.1.1

43652.3.2

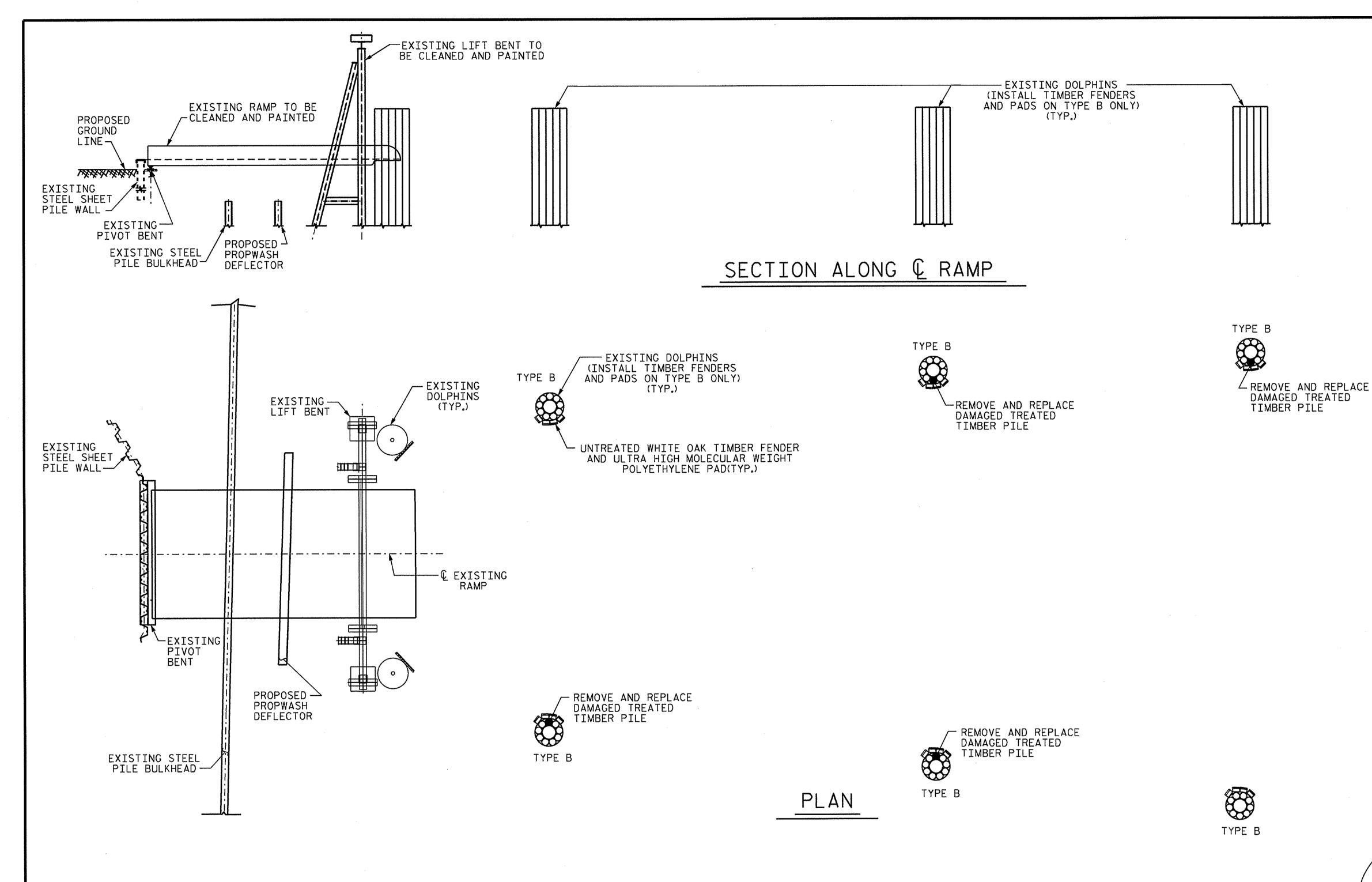
F. A. PROJ. NO.

P.E. CONST.

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED FOR DIVISION ADMINISTRATOR

IO-JAN-2013 09:45 S:\DPGI\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn



					,	TOTAL	BILL	OF N	MATERI	AL					
	MOBILIZATION		REMOVAL OF EXISTING STEEL SHEET PILE WALL	REMOVE AND REPLACE APRON	REMOVAL OF EXISTING TIMBER PILES	SKID RESISTANT COATING	CLEANING AND PAINTING EXISTING LIFT BENT	STEEL SHEET PILES	MECHANICAL SYSTEM	ELECTRICAL SYSTEM	TREATE TIMBE PILES	R MOLECULAR WEIGH	UNTREATED STRUCTURAL TIMBER	CLEANING AND PAINTING EXISTING RAMP	PAINTING STEEL PILES
	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	SQ.FT.	LUMP SUM	LUMP SUM	NO.LIN.	FT. SQ.FT.	M.B.F.	LUMP SUM	LUMP SUM
LIFT BENT							LUMP SUM		LUMP SUM	LUMP SUM				LUMP SUM	LUMP SUM
RAMP			LUMP SUM	LUMP SUM		LUMP SUM								LUMP SUM	LUMP SUM
PROPWASH				· · · · · · · · · · · · · · · · · · ·				2550							
DOLPHIN					LUMP SUM						4 240	120	1.584		
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	2550	LUMP SUM	LUMP SUM	4 240	120	1.584	LUMP SUM	LUMP SUM

B.N.BARODAWALA DATE : 11-14-12

K.P. SEDAI DATE : 12-20-12 DRAWN BY :



FOR SECURING OF VESSELS, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR SCOPE OF WORK, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING EXISTING LIFT BENT, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING EXISTING RAMP, SEE SPECIAL PROVISIONS.

FOR SKID RESISTANT COATING, SEE SPECIAL PROVISIONS.

FOR ELECTRICAL SPECIFICATIONS, SEE SPECIAL PROVISIONS.

FOR DOLPHINS, SEE SPECIAL PROVISIONS.

FOR MECHANICAL SPECIFICATIONS, SEE SPECIAL PROVISION.

FOR STEEL SHEET PILES, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR REMOVE AND REPLACE RAMP APRON, SEE SPECIAL PROVISIONS.

FOR PAINTING STEEL PILES, SEE SPECIAL PROVISIONS.

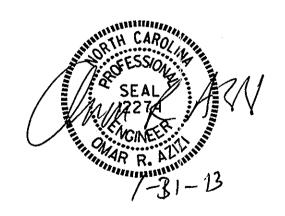
FOR REMOVAL OF EXISTING STEEL SHEET PILE WALL, SEE SPECIAL PROVISIONS.

FOR REMOVAL OF EXISTING TIMBER PILES. SEE SPECIAL PROVISIONS.

FOR PROPWASH DEFLECTOR, SEE SPECIAL PROVISIONS.

FOR GRADING, SEE EXCAVATION AND EMBANKMENT SPECIAL PROVISIONS.





PROJECT NO. F-5503B DARE COUNTY

STATION:_

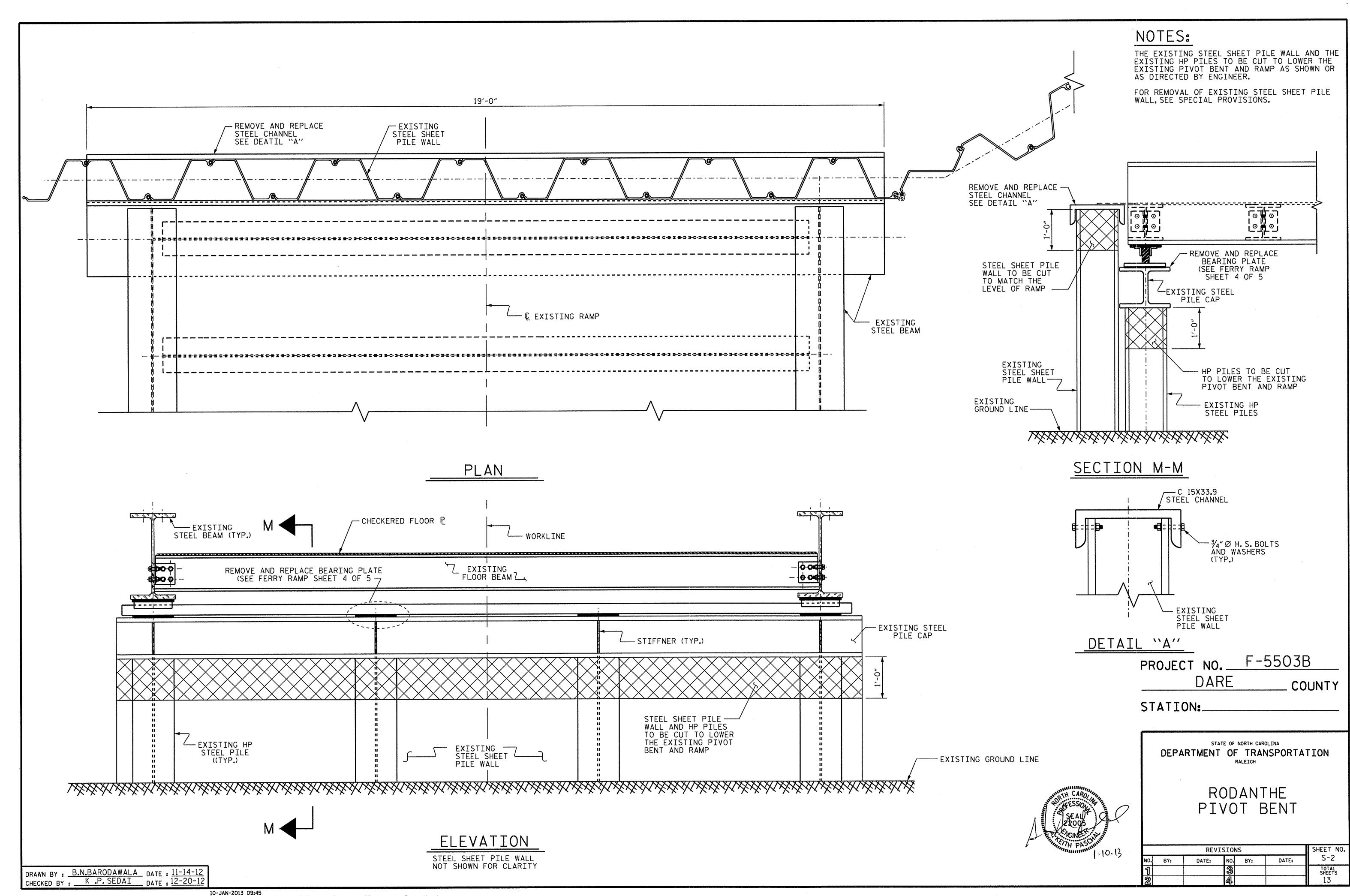
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

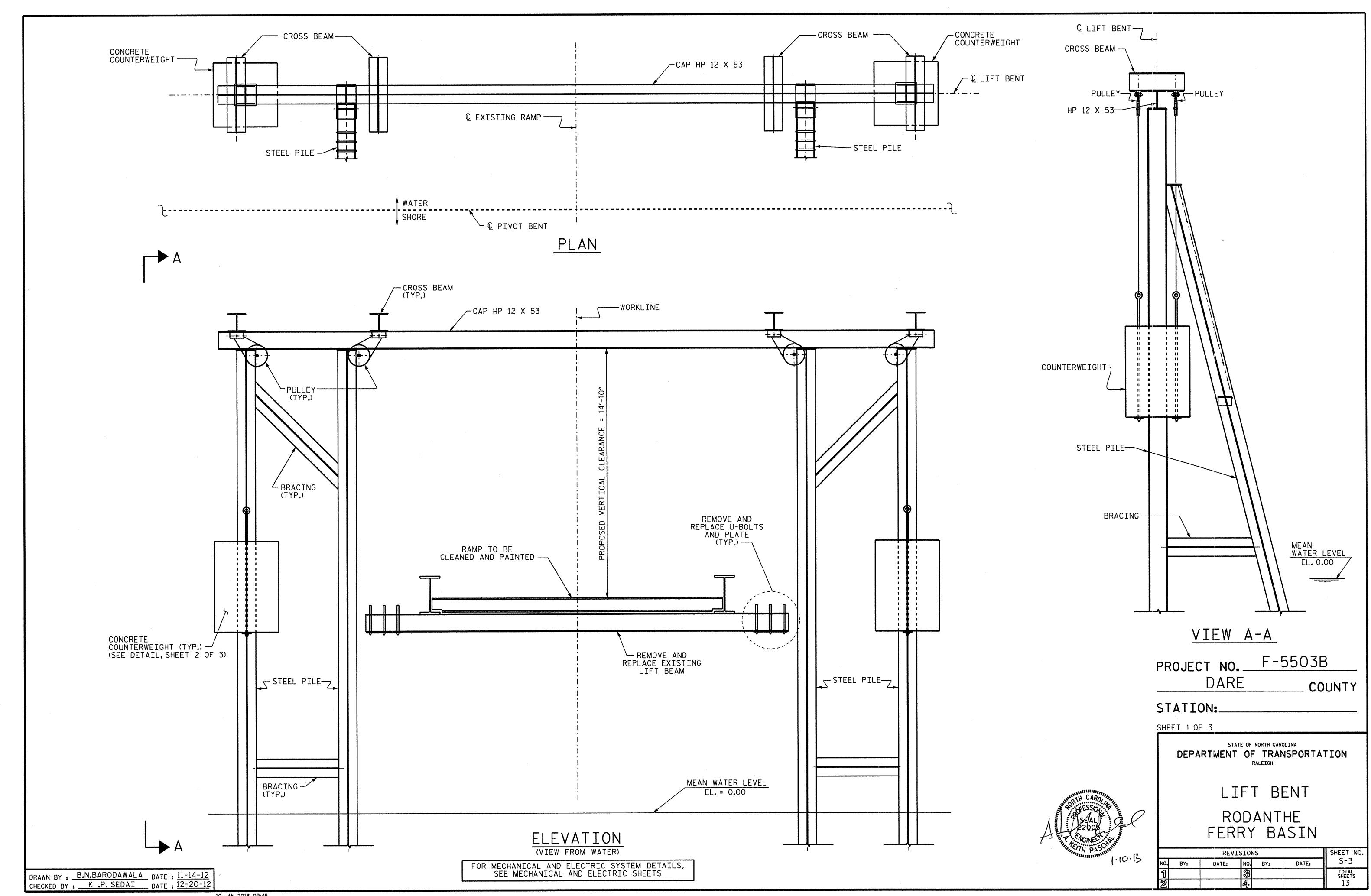
GENERAL DRAWING RODANTHE

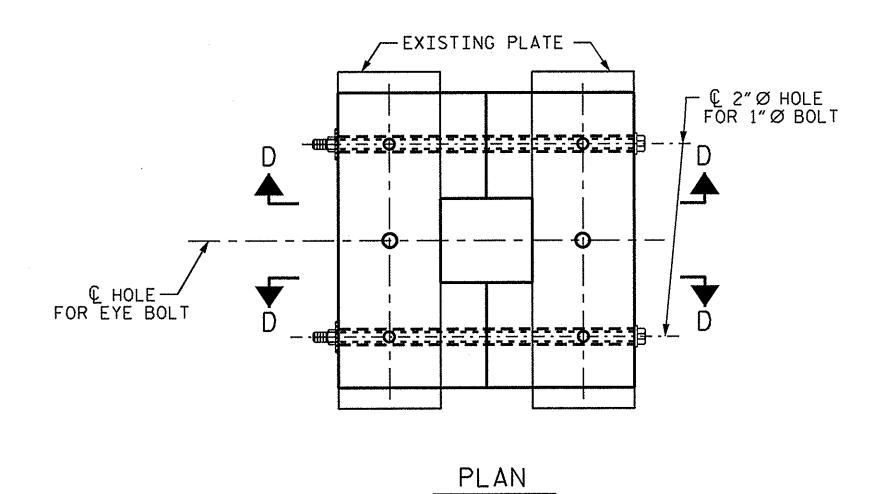
FERRY BASIN

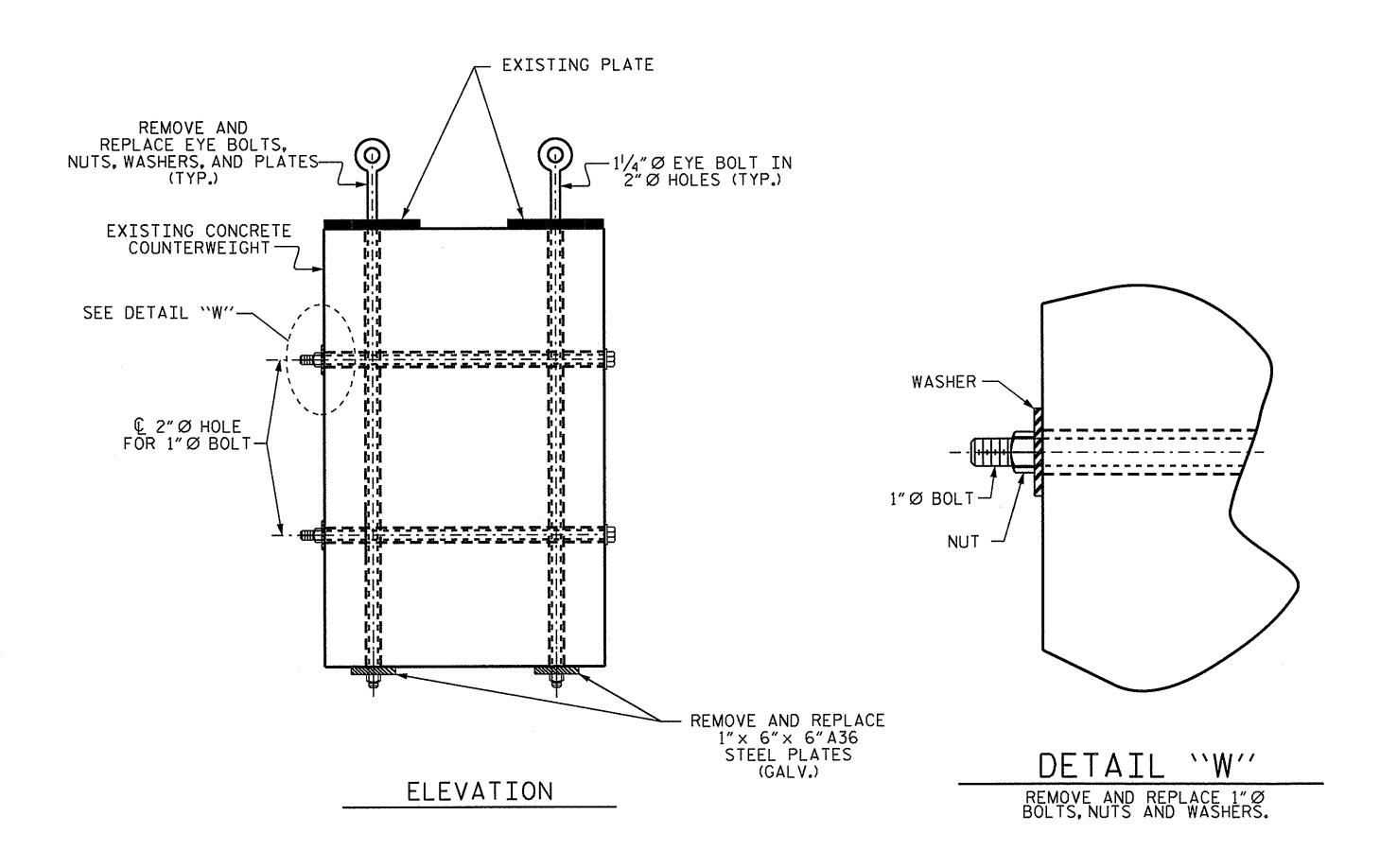
		SHEET NO.				
١.	BY:	DATE:	NO.	BY:	DATE:	S-1
			3			TOTAL SHEETS
			4			13

CHECKED BY :









SECTION D-D

(ALL HARDWARE TO BE GALV.)

NOTES:

ALL EYE BOLTS, BOLTS, NUTS, WASHERS AND PLATES SHALL BE GALVANIZED.

FOR CLEANING AND PAINTING EXISTING LIFT BENT, SEE SPECIAL PROVISIONS.

FOR PAINTING OF STEEL PILES, SEE SPECIAL PROVISIONS.

BILL OF MATERIAL	
1"Ø BOLTS, WASHERS & NUTS	4 NOS.
11/4"Ø EYE BOLTS, WASHERS, PLATES & NUTS	2 NOS.

PROJECT NO. F-5503B

DARE COUNTY

STATION:_

SHEET 2 OF 3

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

RODANTHE

FERRY BASIN

REVISIONS

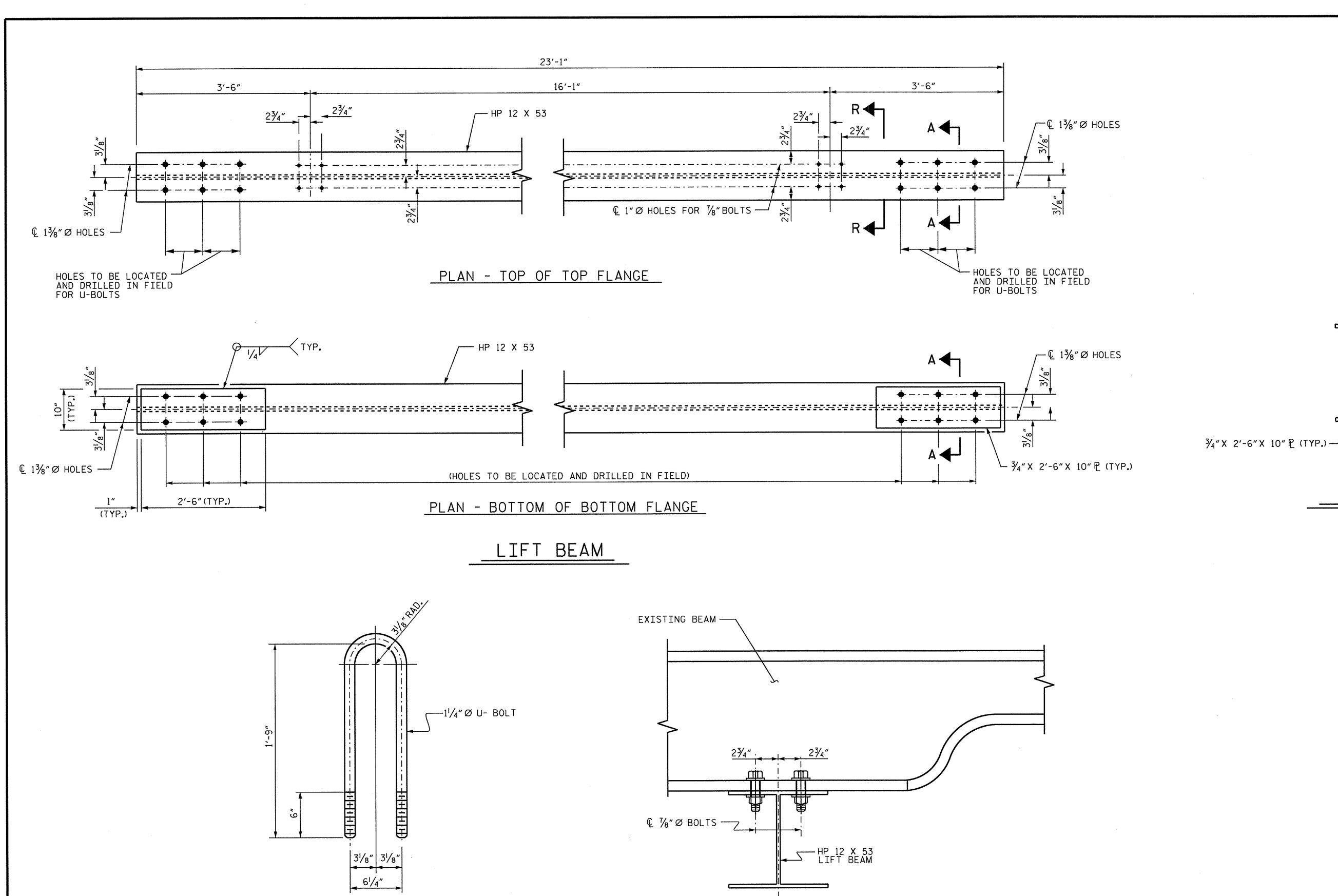
O. BY: DATE: NO. BY: DATE:

S-4

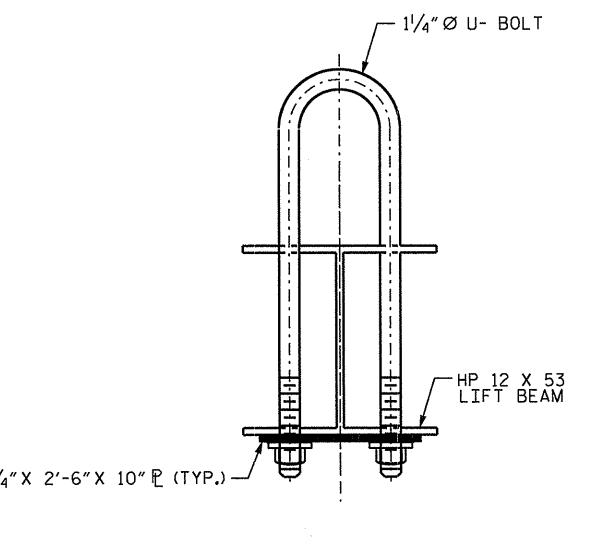
TOTAL SHEETS
13

DRAWN BY: B.N.BARODAWALA DATE: 11-14-12 CHECKED BY: K.P. SEDAI DATE: 12-20-12

10-JAN-2013 09:46 S:\DPG1\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn bbarodawala



VIEW R-R



VIEW A-A

PROJECT NO. F-5503B DARE COUNTY

STATION:_

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

LIFT BENT

RODANTHE FERRY RAMP

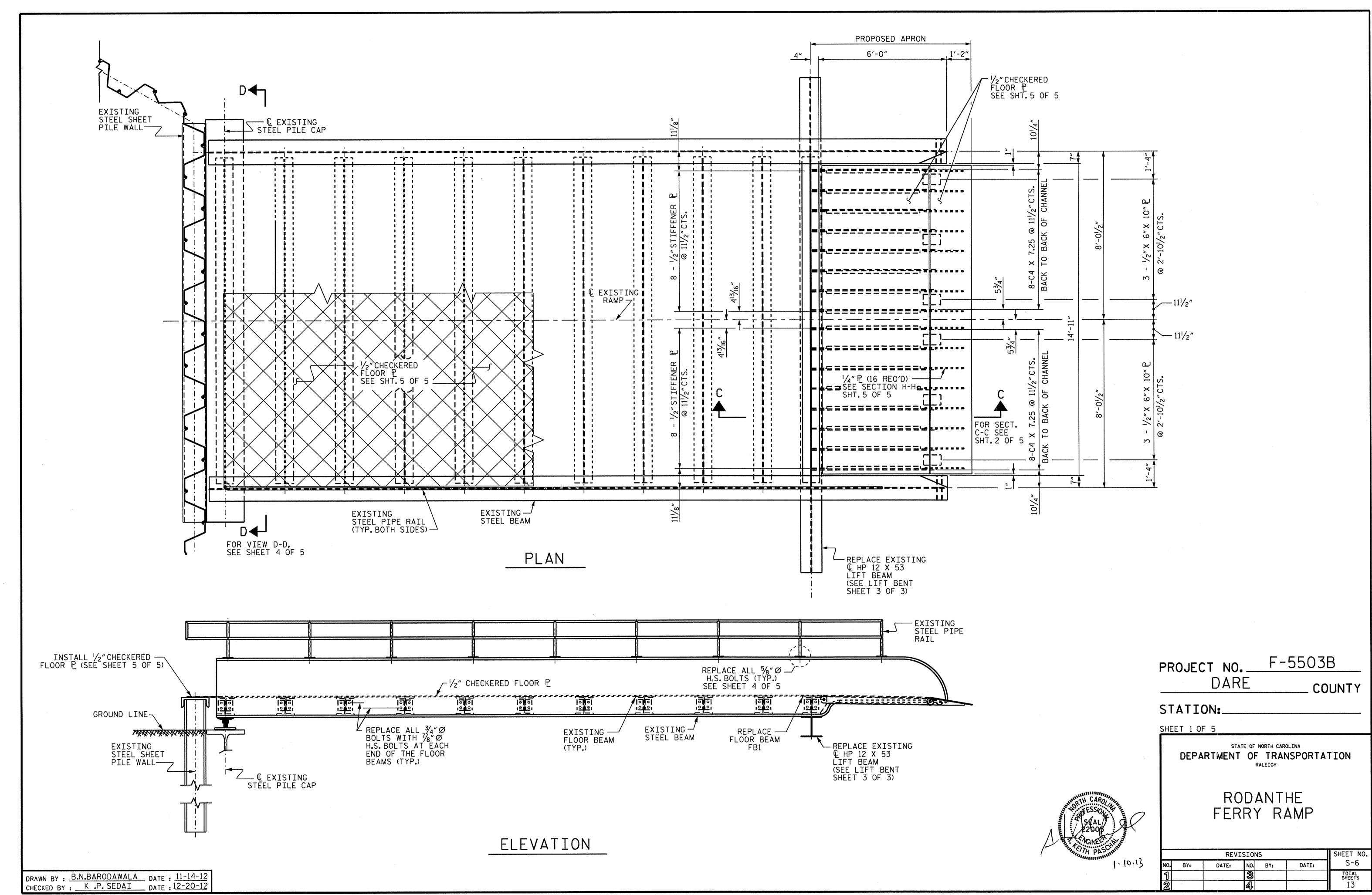
SHEET NO. S-5 REVISIONS NO. BY: DATE: DATE: BY: TOTAL SHEETS 13

10-JAN-2013 13:07 S:\DPG1\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn bbarodawala

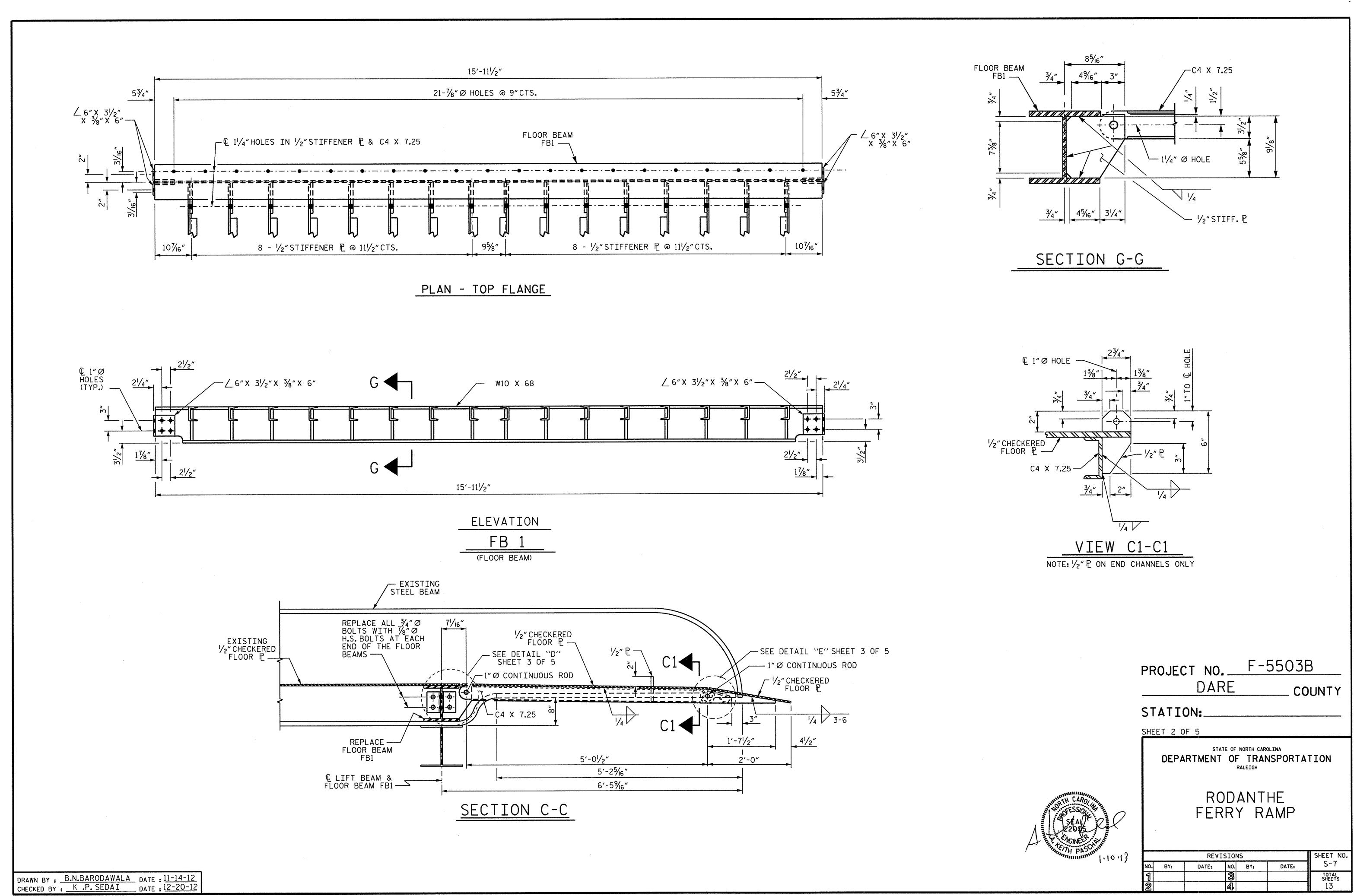
DRAWN BY: B.N.BARODAWALA DATE: 12-12-12 CHECKED BY: K.P. SEDAI DATE: 12-12-12

DETAIL OF U-BOLT FOR LIFT BEAM

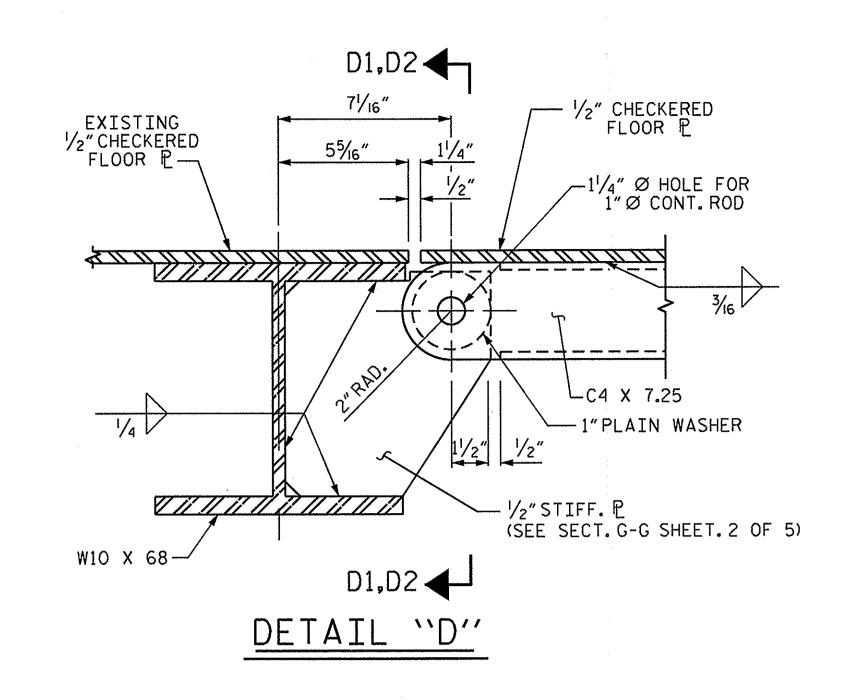
THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE HOLES IN THE HP 12 X 53 SHALL BE FIELD DRILLED.

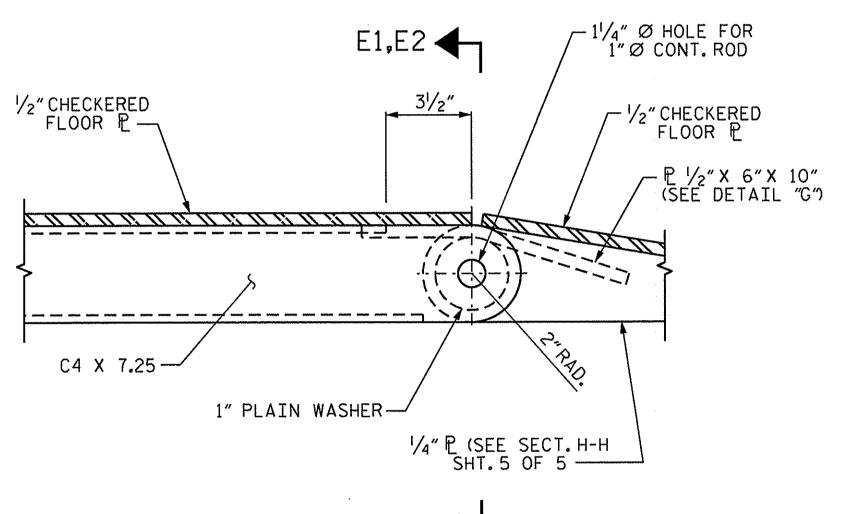


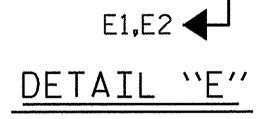
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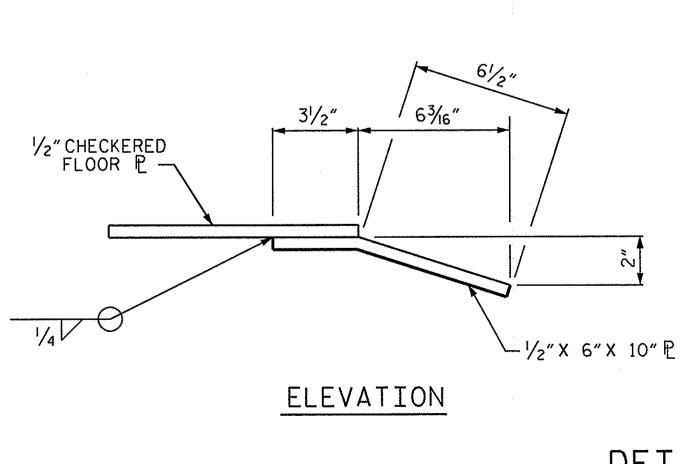


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bbarodawala



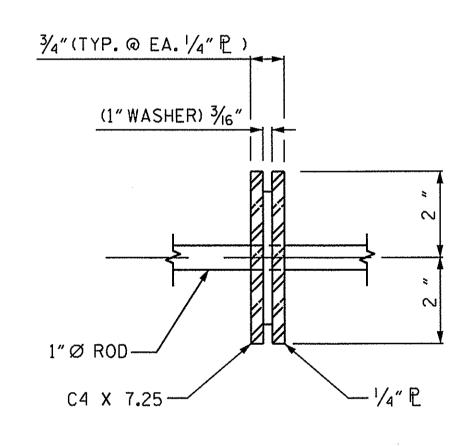




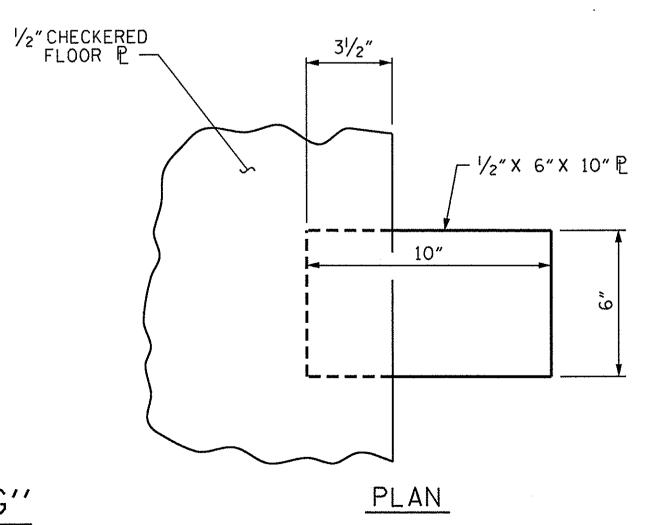


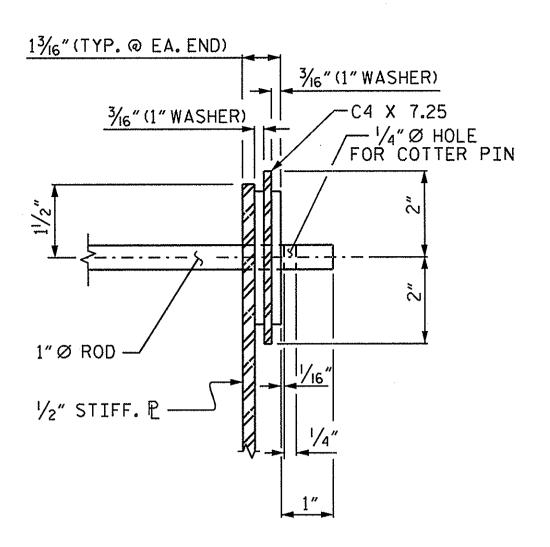
1"(TYP. @ EA. 1/2" STIFF. P) 3/16" (1" WASHER) 1"Ø ROD — -----__.__. C4 X 7.25 ½" STIFF ₽

SECTION D1-D1 (RIGHT SIDE SHOWN, LEFT SIDE SIMILAR BY FLIPPING.)



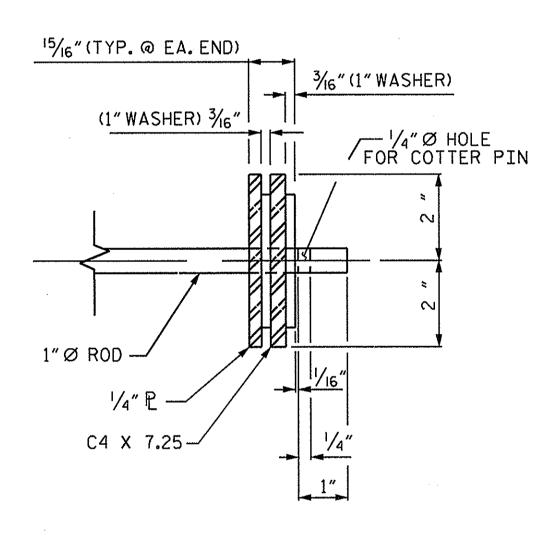
SECTION E1-E1 (SIMMILAR BETWEEN TWO ENDS)





SECTION D2-D2

(FAR RIGHT SIDE END SHOWN, FAR LEFT SIDE SIMMILAR BY FLIPPING.)



SECTION E2-E2 (FAR RIGHT SIDE END SHOWN, LEFT SIDE SIMMILAR BY FLIPPING.)

F-5503B PROJECT NO. DARE COUNTY STATION:

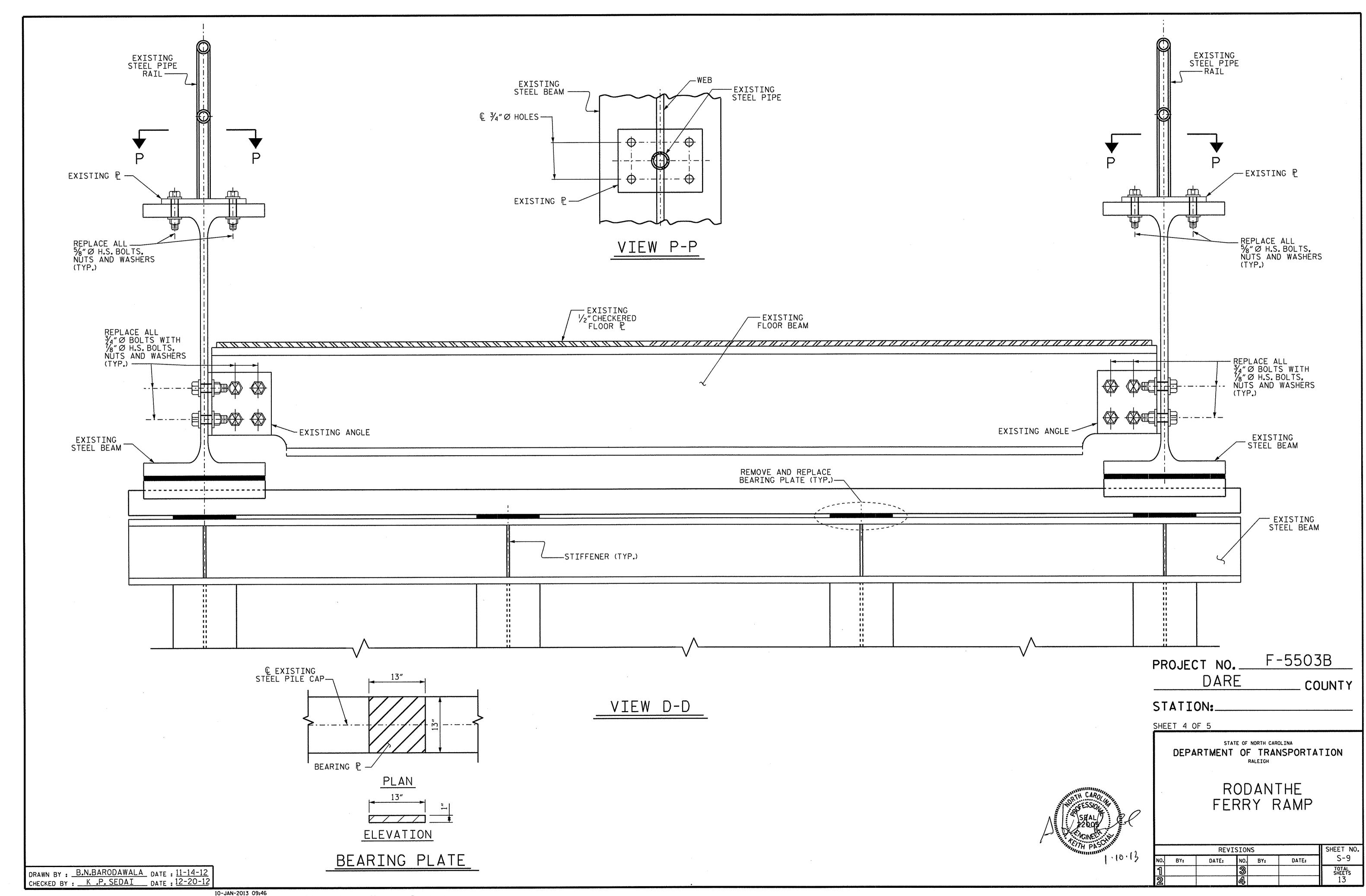
SHEET 3 OF 5

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

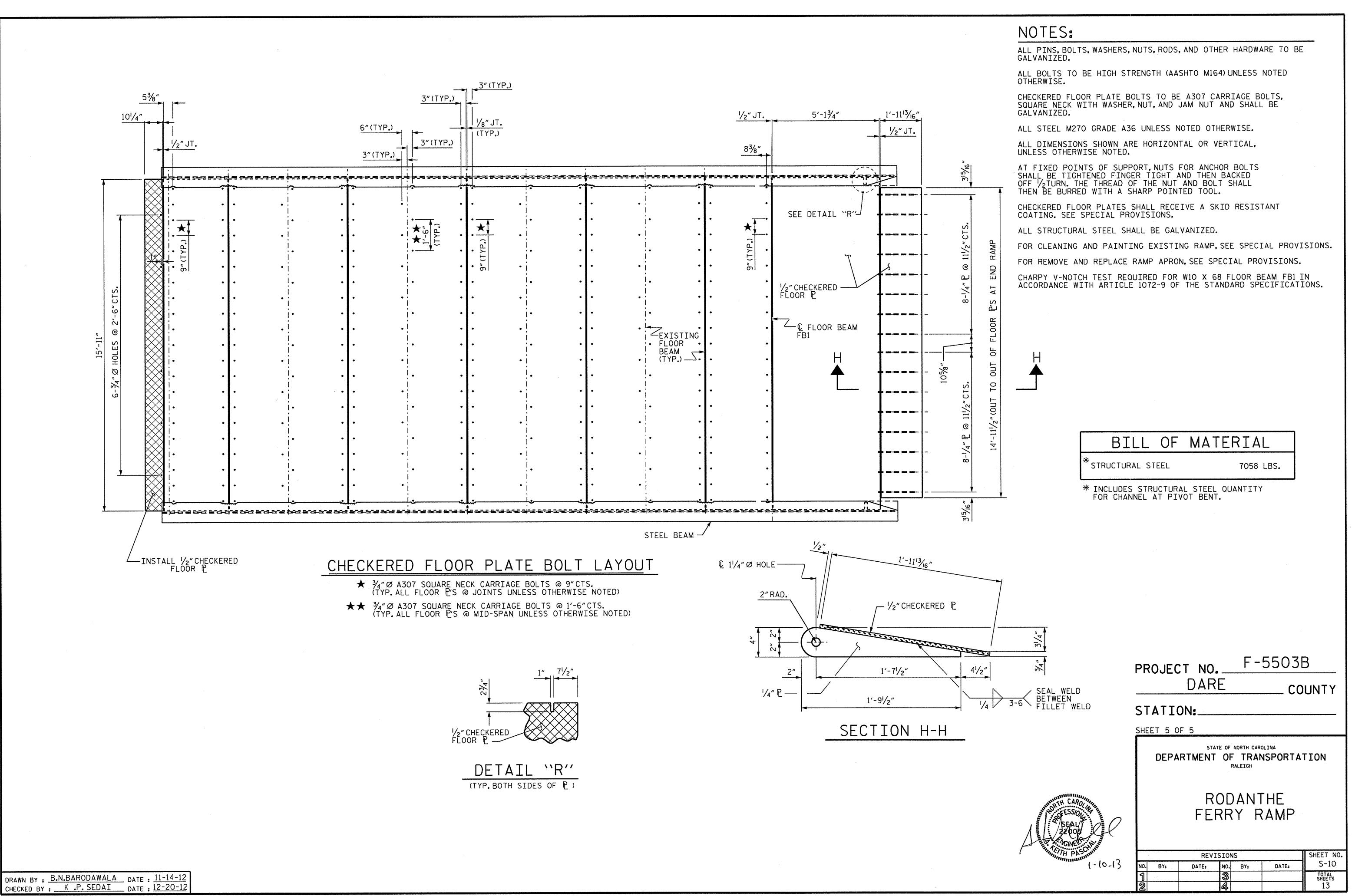
> RODANTHE FERRY RAMP

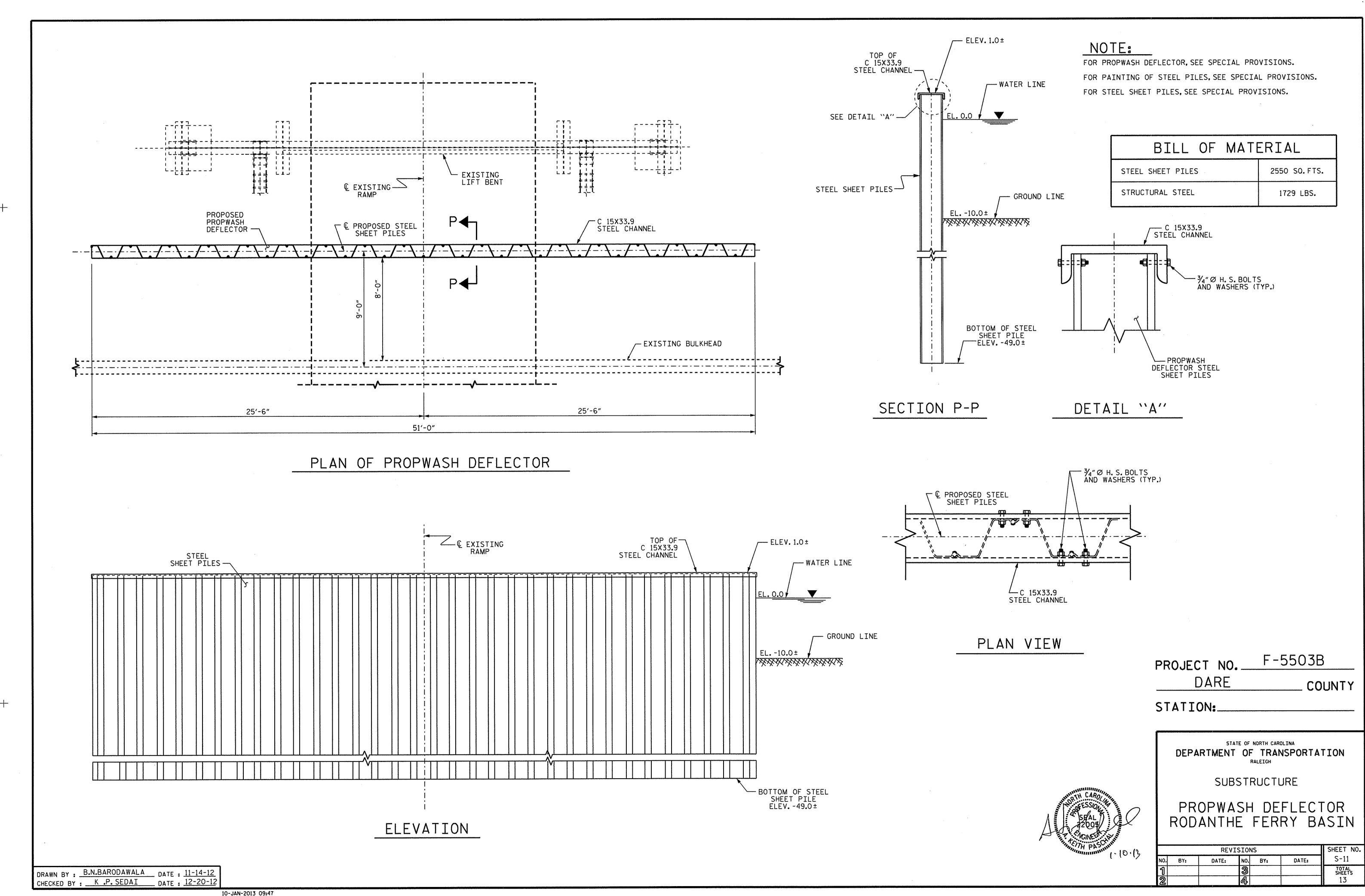
REVISIONS SHEET NO. S-8 NO. BY: DATE: DATE: BY: TOTAL SHEETS 13

DETAIL "G"

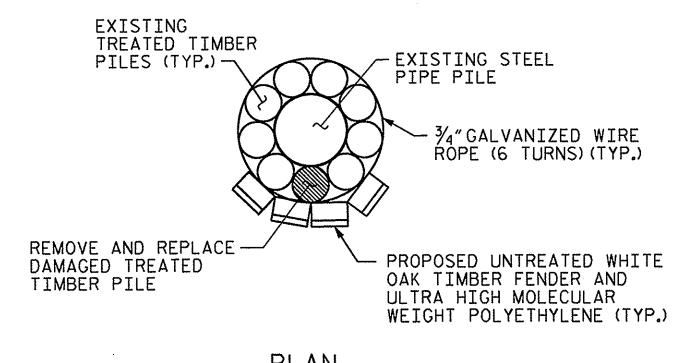


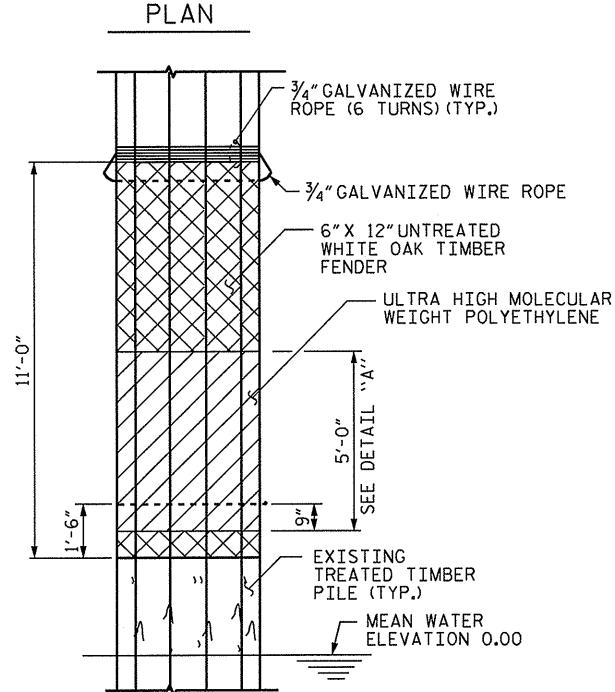
10-JAN-2013 09:46 S:\DPG1\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn bbarodawala





10-JAN-2013 09:47 S:\DPG1\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn bbarodawala

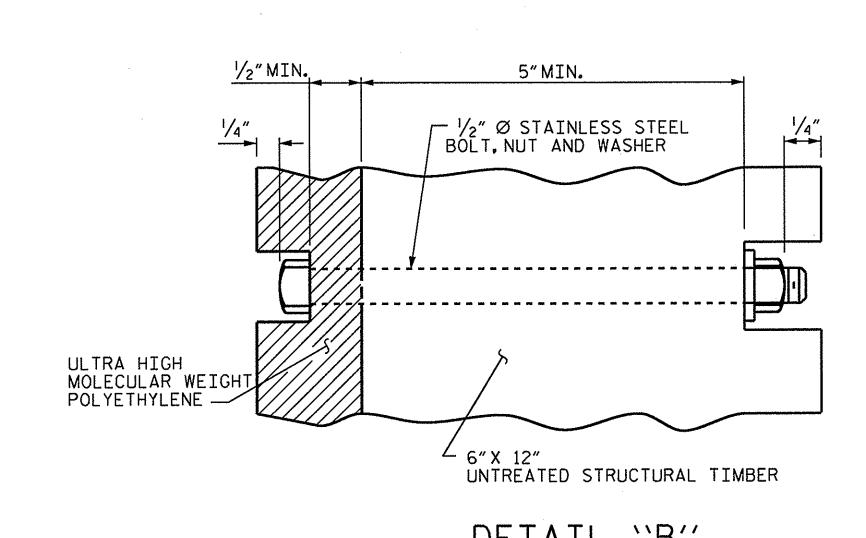




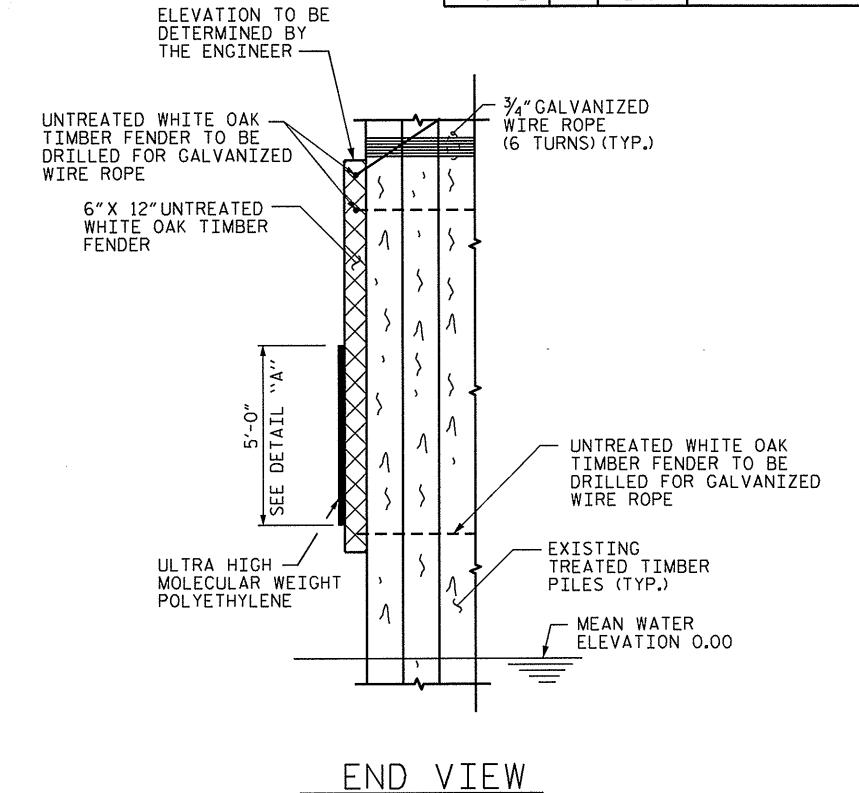
ELEVATION

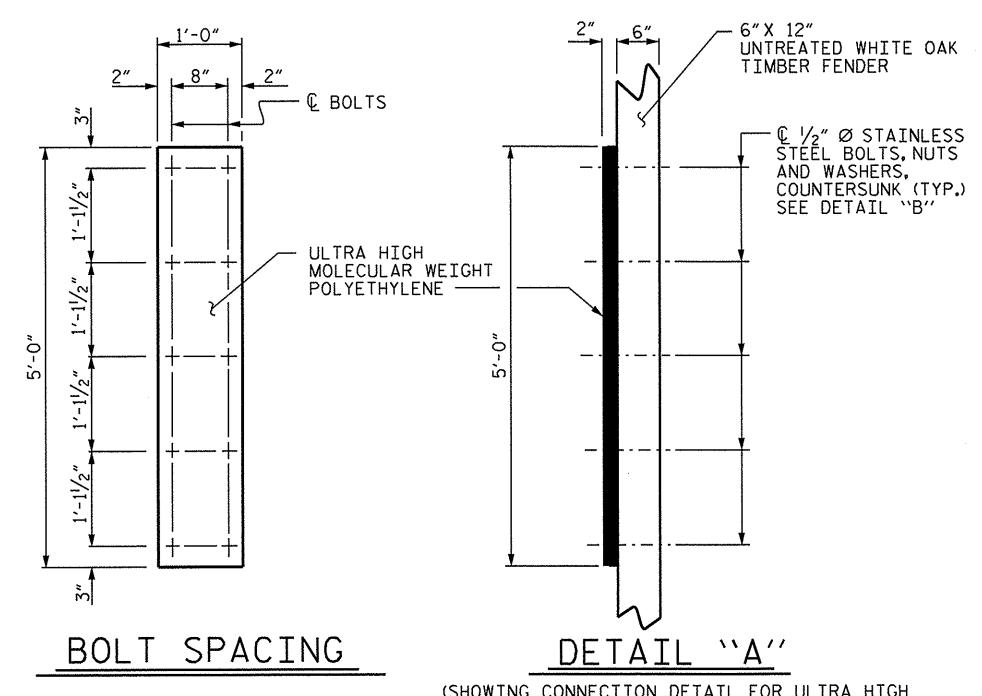
DOLPHIN (TYPE B)

DRAWN BY: B.N.BARODAWALA DATE: 11-14-12 CHECKED BY: K.P. SEDAI DATE: 12-20-12



BILL OF MATERIAL ULTRA HIGH TREATED UNTREATED MOLECULAR UNTREATED WHITE ULTRA HIGH TIMBER OAK TIMBER FENDER MOLECULAR WEIGHT STRUCTURE WEIGHT POLYETHYLENE TIMBER POLYETH PILES TIMBER POLYETHYLENE NOS. LIN. FT. NOS. NOS. M.B.F. SQ .FT. 1.584 TYPE B 24 24 120 4 240 24 1.584 240 24 120 TOTAL 4





NOTES

FOR ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE, SEE DOLPHINS SPECIAL PROVISIONS.

NO SEPARATE PAYMENT OR MEASUREMENT WILL BE MADE FOR HARDWARE, TOOLS, EQUIPMENT, OR LABOR FOR INSTALLING THE ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE. THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE.

THE POSITIONING INCLUDING THE FINAL ELEVATIONS OF THE ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE ON THE PILE SHALL BE AS DIRECTED BY THE ENGINEER.

INSTALL 14" MINIMUM BUTT DIAMETER TREATED TIMBER PILE DOLPHINS TO A TIP ELEVATION NO HIGHER THAN -35 FT.

DOLPHIN PILES SHALL BE DRAWN TOGETHER AT THE TOP AND WRAPPED WITH SIX TURNS OF 3/4" WIRE ROPE AT ONE POINT. THE WIRE ROPE SHALL BE SECURED WITH 3/8" SQUARE STAPLES AND TWO CABLE CLAMPS AT THE END.

NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR WIRE ROPE USED TO WRAP DOLPHINS AND INSTALLING OAK FENDERS, HARDWARE, TOOLS, EQUIPMENT, OR LABOR. THIS WORK AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR TREATED TIMBER PILES.

GALVANIZED WIRE ROPE USED FOR INSTALLING UNTREATED WHITE OAK TIMBER FENDERS SHALL CONFORM TO ASTM A603 CLASS B.

ALL HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.

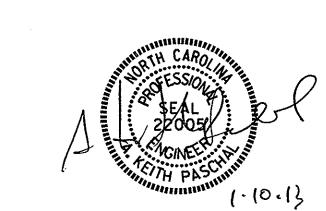
THE 6"X 12" UNTREATED WHITE OAK TIMBER FENDERS SHALL BE FACED AS SHOWN WITH 2"THICK X 12" WIDE X 5'-O"LONG ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE. SEE DOLPHIN SPECIAL PROVISIONS.

FOR TREATED TIMBER PILES, SEE DOLPHINS SPECIAL PROVISIONS.

PROJECT NO. F-5503B

DARE COUNTY

STATION:

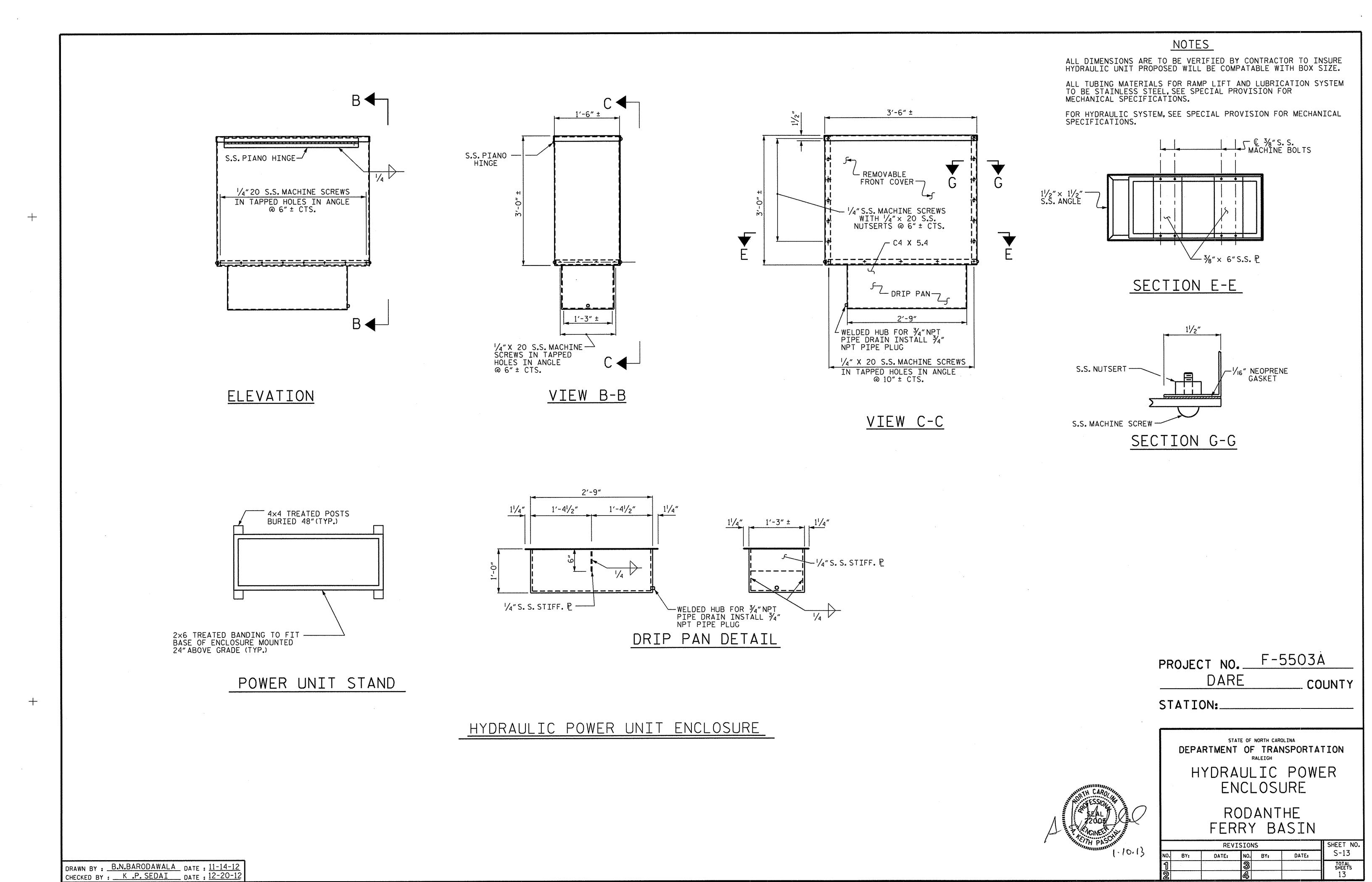


DEPARTMENT OF TRANSPORTATION
RALEIGH

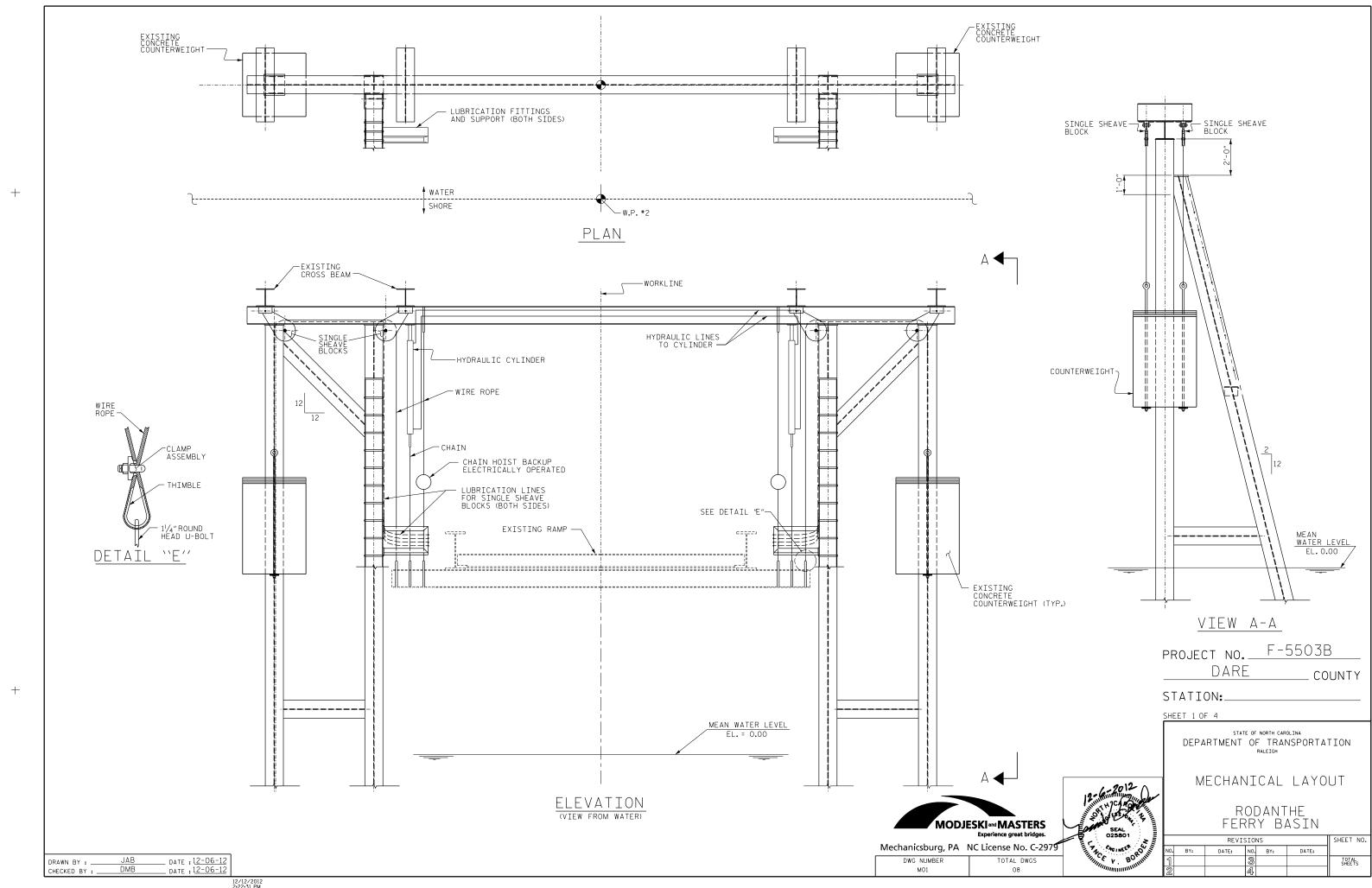
DOLPHIN DETAILS
(TYPE B)

RODANTHE FERRY BASIN

(SHOWING CONNECTION DETAIL FOR ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE TO WHITE OAK TIMBER FENDER)



10-JAN-2013 09:47 S:\DPG1\Keith\Ferry\Stumpy Point and Rodanthe\BBarodawala\Rodanthe.dgn bbarodawala



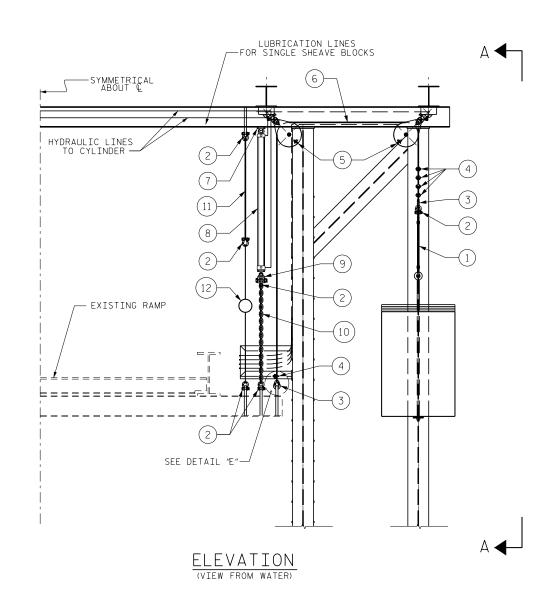
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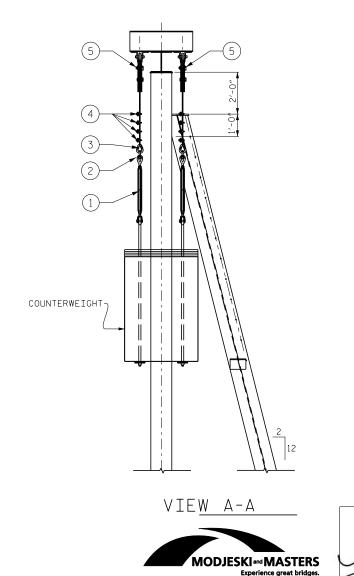
	BILL OF MATERIALS							
ITEM NO.	QUANTITY	<u>DESCRIPTION</u>	MATERIAL/MODEL NUMBER					
1	4	JAW AND EYE TURNBUCKLE, 1" THREAD WITH 24" TAKE UP BY CROSBY	STOCK NUMBER HG-227, MODEL NUMBER 1032233					
2	14	BOLT TYPE ANCHOR SHACKLE, 3/4" SIZE BY CROSBY	STOCK NUMBER G-2130, MODEL NUMBER 1019515					
3	6	WIRE ROPE THIMBLE, 3/4" SIZE BY CROSBY	STOCK NUMBER G-414, MODEL 1037773					
4	18	FORGED WIRE ROPE CLIPS, 3/4" SIZE BY CROSBY (MINIMUM 4 PER WIRE ROPE END)	STOCK NUMBER G-450, MODEL 1010195					
5	8	SINGLE SHEAVE BLOCK WITH BRONZE BUSHINGS, 3/4" WIRE ROPE AND 14" DIAMETER BY MCKISSICK	MODEL 419 SHACKLE (STOCK NO. 109527)					
6	2	LENGTHS OF GALVANIZED 3/4" IWRC WIRE ROPE 6X19 CLASSIFICATION WITH MINIMUM STRENGTH 46,000 LBS	IMPROVED PLOW STEEL					

	BILL OF MATERIALS							
ITEM NO. QUANTITY		<u>DESCRIPTION</u>	MATERIAL/MODEL NUMBER					
7	2	HYDRAULIC CYLINDER EYE BRACKET AND PIN BY PARKER	EYE BRACKET - PN0938700000 PIN - PN0938840000					
8	2	HYDRAULIC CYLINDER WITH 3.25" BORE, 72" STROKE BY PARKER	MODEL NUMBER 3.25Ø-CBB SHLU 18ACx72.000					
9)	SS ROD CLEVIS, 1-1/4 - 12, (W/ STAINLESS STEEL PIN, 1-3/8" DIA x 4.13"., WASHERS AND COTTER PINS) BY PARKER	CLEVIS BRACKET - PN0938780000 PIN - PN0938850000					
10	2	LENGTHS OF 3/4" SIZE ALLOY CHAIN BY CROSBY	GRADE 100, SPECTRUM 10 ALLOY CHAIN					
11	1 2	MECHANICALLY SPLICED SLING OF 3/4" IWRC 6X19 CLASSIFICATION WIRE ROPE	IMPROVED PLOW STEEL					
12	2	ELECTRIC CHAIN HOIST, 115V, 2 TON, 10 FT. LIFT @ 8 FPM BY DAYTON (BACKUP)	MODEL NUMBER 2GXH6					

NO LE:

- ALL ITEMS TO BE CONFIRMED BY CONTRACTOR AS SUITABLE BEFORE PURCHASE. STOCK AND MODEL NUMBERS ARE LISTED AS REFERENCE AND ARE NOT GUARENTEED TO BE CURRENT OR CORRECT. CONTRACTOR TO VERIFY ALL COMPONENTS AND DIMENSIONS

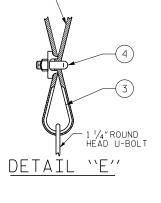




Mechanicsburg, PA NC License No. C-2979

TOTAL DWGS

08



PROJECT NO. F-5503B

DARE COUNTY

STATION:_

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

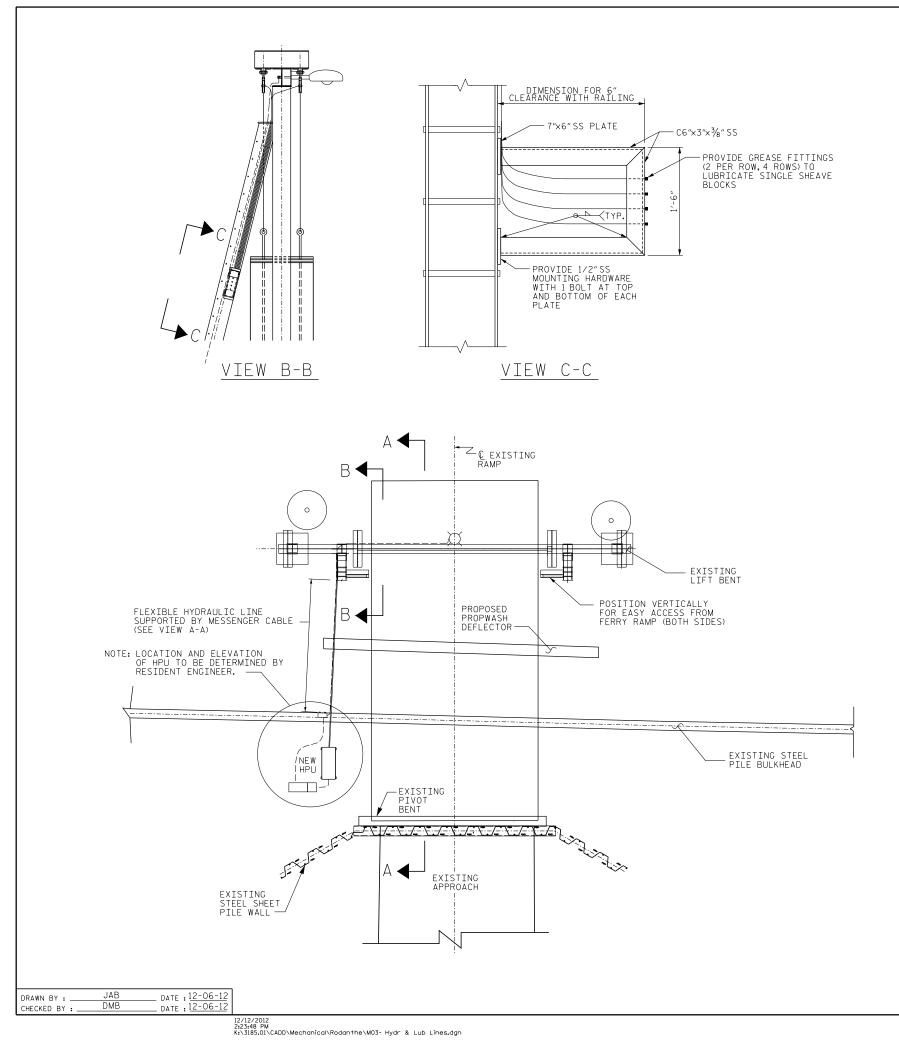
RAMP LIFT SYSTEM

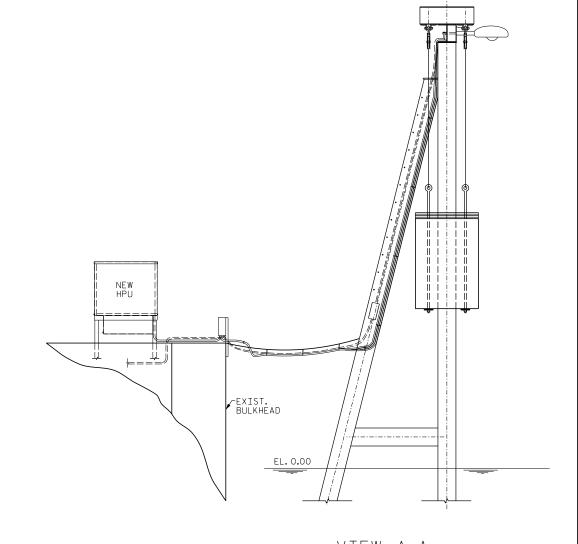
RODANTHE FERRY BASIN

REVISIONS SHEET NO. BY: DATE:

| OATE: NO. BY: DATE: TOTAL SHEETS

DWG NUMBER
MO2





VIEW A-A

NOTES:

- 1. GREASE LINES HAVE STAINLESS STEEL BRAIDED FLEXIBLE LINES AT FITTING CONNECTION AND AT SINGLE SHEAVE BLOCK CONNECTION.
- 2.REMAINDER OF GREASE LINES SHALL BE STAINLESS STEEL TUBING RIGIDLY CLAMPED TO STRUCTURE AT LEAST EVERY 2 FT.WITH ALL STAINLESS STEEL HARDWARE

F-5503B PROJECT NO. DARE COUNTY STATION:

SHEET 3 OF 4

SEAL 025801

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH

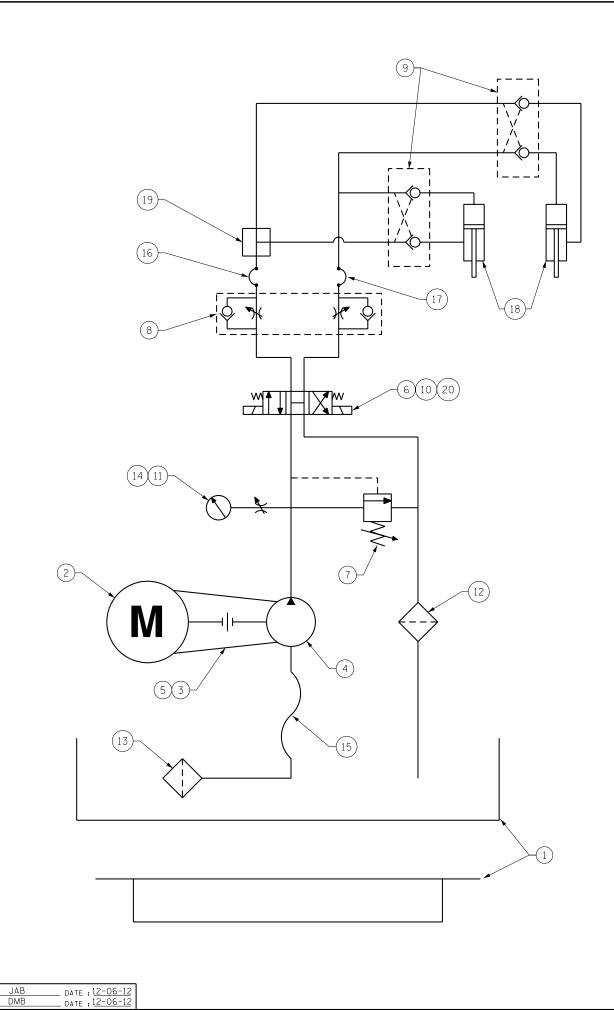
HYDRAULIC AND LUBRICATION LINES

RODANTHE FERRY BASIN

REVISIONS SHEET NO. DATE: NO. BY: DATE:

Mechanicsburg, PA NC License No. C-2979 DWG NUMBER TOTAL DWGS M03 08

MODJESKI and MASTERS



	BILL OF MATERIALS							
ITEM NO.	QUANTITY	<u>DESCRIPTION</u>	MATERIAL/MODEL NUMBER					
1	1	30 GALLON RESERVOIR BY HPU MANUFACTURER						
2	1	ELECTRIC MOTOR BY BALDOR	5HP, 1800 RPM, TEFC, 208.60/10, 184 TC					
3	1	MOTOR TO PUMP ADAPTOR BY VESCOR	1960 P/M ADAPTOR 184 TC x SAE 2A-5.0					
4	1	FIXED DISPLACEMENT UNIDIRECTIONAL SELF-PRIMING EXTERNAL	AZPF-016RRR12MB					
4		GEAR PUMP BY BOSCH-REXROTH	AZPF-UIOKKKIZIVIB					
5	1	MOTOR TO PUMP ADAPTOR COUPLING BY MAGNALOY	M200 3/4-3/16 x 1-1/8 - 1/4					
6	1	SINGLE STATION MANIFOLD BY HPU MANUFACTURER						
7	1	RELIEF VALVE BY SUN	RDDA-LAN					
8	1	DUAL FLOW CONTROL BY SUN	NCCB-KCN					
9	2	PILOT OPERATED CHECK VALVES BY SUN	CKCB-XCN					
10	1	SOLENOID OPERATED DIRECTIONAL VALVE BY BOSCH REXROTH	4WE6H6X/W110N9					
11	1	2 1/2", 3,000 PSI, 1/4" BOTTOM MOUNT PRESSURE GAGE BY WIKA	213.40					
12	1	MEDIUM PRESSURE 10 MICRON RETURN LINE FILTER WITH 3 PSI	P164378 FILTER WITH P166416 HEAD					
12		BYPASS BY DONALDSON COMPANY, INC.	P1043/8 FILTER WITH P100410 HEAD					
13	1	SUCTION STRAINER WITH 3 PSI RELIEF VALVE BY DONALDSON	P173912					
13	1	COMPANY, INC.	P1/3912					
14	1	GAGE SNUBBER BY SUN	NSAB-KXV-BA					
15	1	1/2" INSIDE DIAMETER TYPE AT-ISO 1436 TYPE 2AT EN 853 TYPE 2SN						
4.6	4	4 '	381-8					
16	1	4,250 PSI HOSE BY PARKER						
17	1		CEE IIDAAAD LIET CYCTEA AII DDAAAAAA CEED					
18	2 HYE	HYDRAULIC CYLINDER	SEE "RAMP LIFT SYSTEM" DRAWING FOR DETAILS					
19	1	FLOW INTEGRATOR BY BRAND	B300-1/2					

NOTES:

- ITEM #19 TO BE INSTALLED ON THE RETURN LINE FROM CYLINDERS.
 ITEM #1 INCLUDES 30 GAL.RESERVIOR, DRIP PAN, AND COVER.
 (SEE "HYDRAULIC UNIT ENCLOSURE" DRAWING FOR ADDITIONAL DETAILS.)
 HYDRAULIC UNIT AND CYLINDER TO BE PAINTED MARINE ENAMEL.

F-5503B PROJECT NO._ DARE COUNTY STATION:_ SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

HYRAULIC SCHEMATIC

RODANTHE FERRY BASIN

REVISIONS DATE: NO. BY:

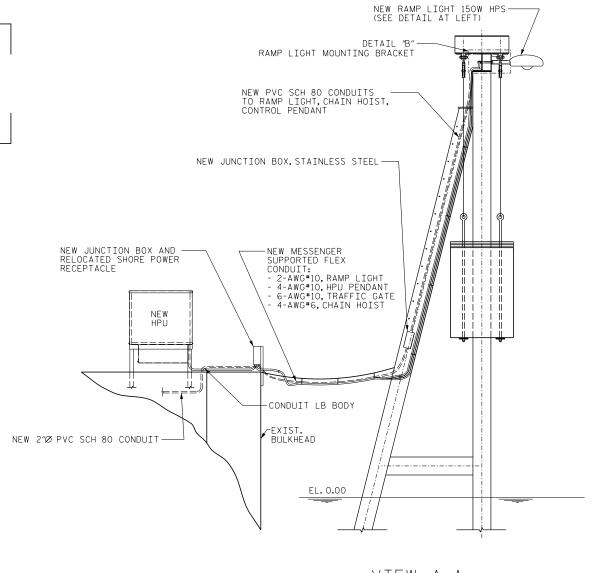
MODJESKI and MASTERS DWG NUMBER TOTAL DWGS

Mechanicsburg, PA NC License No. C-2979 M04 08

DRAWN BY : ____

CHECKED BY : _

1/4"PL STIFFENER CAP HP 12×53-1/2"Ø HOLE (WEB & PL) DEBUR & GRIND EDGES NOTES: SMOOTH 3/4"PVC LB BODY-1. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH NFPA 70. THE NATIONAL 3/4"RIGID CONDUIT & HYDRAULIC LINE (ROUTE TO SUIT) 2"Ø SCHED. 40 ELECTRICAL CODE. STEEL PIPE 2. NEW JUNCTION BOX AT NEW HYDRAULIC POWER UNIT SHALL BE MOUNTED ON 3/4"RIGID CONDUIT-HORIZONTAL STAINLESS STEEL UNISTRUT SUPPORTED BY TWO 4X4 TREATED TIMBER POSTS EMBEDDED AT LEAST 3 FT INTO THE GROUND. HYDRAULIC POWER UNIT MOTOR STARTER AND CHAIN HOIST DISCONNECT SWITCHES SHALL BE MOUNTED ON DETAIL "B" SAME FRAMING. 3. NEW JUNCTION BOX MOUNTED ON EXISTING BULKHEAD NEAR MESSENGER CABLE SHALL € RAMP BE SUPPORTED BY 2 STAINLESS STEEL UNISTRUTS MOUNTED TO BULKHEAD BY 1/2 INCH STAINLESS ADHESIVE ANCHOR BOLTS EMBEDDED AT LEAST 6 INCHES INTO BULKHEAD CONCRETE.USE 3 BOLTS SPACED AT LEAST 18 INCHES APART FOR EACH UNISTRUT. — CAP HP 12×53 3/4"PVC LB BODY PROVIDE JUNCTION BOXES, PULL BOXES AND CONDUIT RUNS AS REQUIRED TO COMPLETE THE SYSTEM. 3/4"RIGID-CONDUIT ALL RIGID PVC CONDUIT SHALL BE SUPPORTED ON STRUCTURE AND ON BULKHEAD AT INTERVALS NO TO EXCEED 6 FEET.



MODJESKI and MASTERS

TOTAL DWGS

08

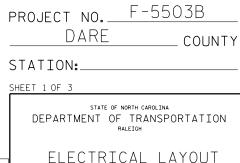
Mechanicsburg, PA NC License No. C-2979

DWG NUMBER

E01

SEAL 025801





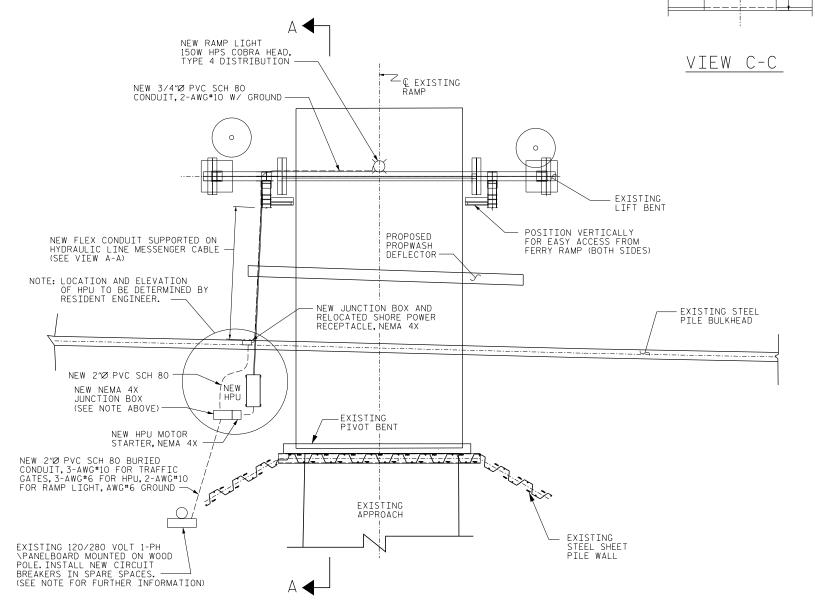
ELECTRICAL LAYOUT

RODANTHE FERRY BASIN REVISIONS

REVISIONS SHEET NO.

BY: DATE: NO. BY: DATE:

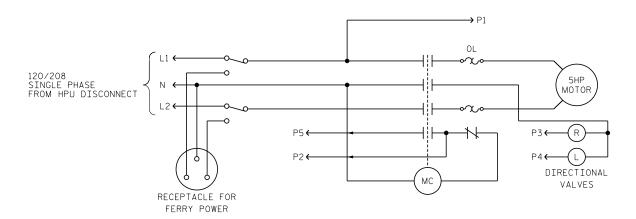
3 TOTAL SHEETS



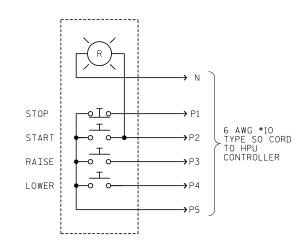
DATE: 12-06-12 DATE: 12-06-12

DRAWN BY : _

CHECKED BY : .



HPU MOTOR CONTROLLER



HPU CONTROL PENDENT

NOTES:

1. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATIONS.

MODJESKI and MASTERS Mechanicsburg, PA NC License No. C-2979 DWG NUMBER TOTAL DWGS E02 08

F-5503B PROJECT NO._ DARE COUNTY STATION:_

SHEET 2 OF 3

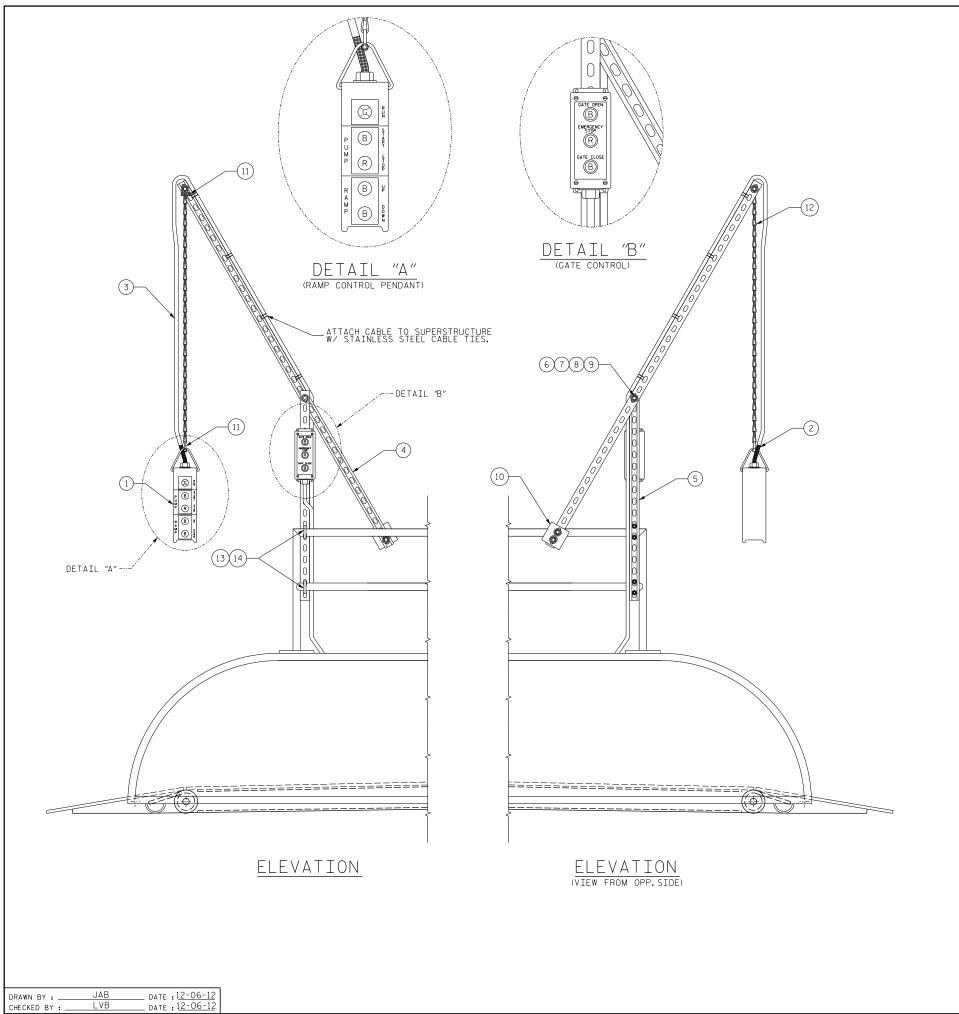
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

ELECTRICAL WIRING DIAGRAM

RODANTHE FERRY BASIN

REVISIONS SHEET NO. DATE: NO. BY: DATE: TOTAL SHEETS X

__ DATE : 12-06-12 __ DATE : 12-06-12 DRAWN BY : ___ CHECKED BY : _



1	PENDANT STATION	SQUARE D	CLASS 9001
*	NEMA 4X ENCLOSURE	SQUARE D	TYPE SKYP4
1	LEGEND PLATE (CUSTOM)	SOLIABE D	CLASS 9001
1	RAMP - UP-DOWN	SQUARE D	TYPE SKN299
1	LEGEND PLATE (CUSTOM)	SOLIARE D	CLASS 9001
_	PUMP - START - STOP	SQO/IIIE B	TYPE SKN299
	LEGEND PLATE	COLLABE D	CLASS 9001
1	RUN	SQUARE D	TYPE SKN124
1	PILOT LIGHT (LED)	SOUARE D	CLASS 9001
-	GREEN	SQO/IIIE B	TYPE SKP38LGG9
1	OPERATOR	SOLIABED	CLASS 9001
1	PUSH BUTTON	SQUARE D	TYPE SKRU-1
2	RUBBER BOOT	COLLABE D	CLASS 9001
3	BLACK	SQUARE D	TYPE KU-1
4	RUBBER BOOT	COLLADE D	CLASS 9001
1	RED	SQUARE D	TYPE KU-2
	OPERATOR		CLASS 9001
1	PUSH BUTTON	SQUARE D	TYPE SKRU-10
1	KELLEMS DELUXE LIQUID-TIGHT CORD GRIP	KELLEMS	07401017
_	LIQUID-TIGHT STAINLESS/ALUMINUM		
12 TO 16 FT.	FLEXIBLE CABLE 10 CONDUCTOR - 16awg	A.I.W. CORP	16awg-10c-SOOW
5 TO 6 FT.	STAINLESS-STEEL SUPERSTRUT	THOMAS & BETTS	A-1200-HS-SS
3 FT.	STAINLESS-STEEL SUPERSTRUT 12 GA. 1-5/8" X 13/16"	THOMAS & BETTS	A-1200-HS-SS
3 IN	STAINLESS STEEL PIPE	VARIOUS	N/A
Jv.	1/2" IP (CONDUIT OR PIPE)	***************************************	
4 IN.	STAINLESS STEEL PIPE	VARIOUS	N/A
10 IN.		VARIOUS	N/A
	<u> </u>		
4		VARIOUS	N/A
		CUT TO SUIT. DRILL AND TAP	LEAD
12 LBS.		TWO 5/16" MOUNTING	
		HULES	INGOT
2	1/4" GALVAIZED	VARIOUS	N/A
2 TO 3 FT.	CHAIN	VARIOUS	3601T38
	SAFE AND REGISTER		(MCMASTER-CARR)
1 PACKAGE	STAINLESS STEEL U-BOLTS 3/8"-16 FOR 1" PIPE	- VARIOUS	8896T56 (MCMASTER-CARR)
I			90313A114
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NEMA 4X ENCLOSURE LEGEND PLATE (CUSTOM) RAMP - UP-DOWN LEGEND PLATE (CUSTOM) PUMP - START - STOP LEGEND PLATE RUN	NEMA 4X ENCLOSURE

BILL OF MATERIALS

- BILL OF MATERIALS IS NOT ALL INCLUSIVE.
ADDITIONAL HARDWARE AND/OR COMPONENTS MAY
BE REQUIRED.CONTRACTOR TO VERIFY ALL
COMPONENTS AND DIMENSIONS.
GATE CONTROL ENCLOSURE SHALL BE A NEMA 4X
STAINLESS STEEL ENCLOSURE.ALL CONDUIT
CONNECTIONS SHALL BE LIQUID TIGHT AND
CONNECTED TO THE BOTTOM OF THE ENCLOSURE.
- ALL HARDWARE SHALL BE STAINLESS STEEL. COUNTY STATION: SHEET 3 OF 3

PROJECT NO._

DARE

DEPARTMENT OF TRANSPORTATION
RALEIGH

STATE OF NORTH CAROLINA

CONTROL PENDANT DETAILS

F-5503B

RONDANTHE FERRY BASIN

REVISIONS SHEET NO. DATE: NO. BY: DATE:

MODJESKI and **MASTERS** Mechanicsburg, PA NC License No. C-2979

DWG NUMBER TOTAL DWGS E03 08