PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: Cape May County – Rehabilitate 96th Street (CR 657) Bridge Structure Number 0500-006 sited at the Great Channel Portion of the New Jersey Intracoastal Waterway Federal Navigation Channel in the Borough of Stone Harbor, Cape May County, New Jersey

PUBLIC NOTICE IDENTIFICATION NUMBER: 408-NAP-2023-0012

PUBLIC NOTICE COMMENT PERIOD:

Begins: <u>12 July 2024</u>

Expires: 12 August 2024

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

1. REQUESTOR: In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), Cape May County has requested permission to rehabilitate 96th Street (CR 657) Bridge Structure Number 0500-006, which is sited at the Great Channel Portion of the New Jersey Intracoastal Waterway Federal Navigation Channel.

2. LOCATION: The proposed project is sited at the Great Channel Portion of the New Jersey Intracoastal Waterway Federal Navigation Channel in the Borough of Stone Harbor, Cape May County, New Jersey, at approximate coordinates 39.056987, -74.765333.

3. LOCATION MAP(S)/DRAWING(S): Please see attached Project Plan Sheets 1-202.

4. REQUESTOR'S PROPOSED ACTION: As stated in the Section 408 Submittal Package provided by the requestor, the proposed action entails the following:

- Replacing the existing main span with a new double leaf, simple trunnion bascule span utilizing electromechanical gear train assemblies.
 - The bascule span will be widened to match the cross-section of the existing approach spans, allowing 5.0-foot wide shoulders for potential future bike lane use, and a 6.0-foot wide sidewalk on each fascia to coincide with 11.0-foot wide traffic lanes in each direction (this is an increase of 8.0-feet in the roadway portion of the section, approximately 17.0-feet in total widening of the cross-section). New traffic barriers/railings will be installed at the curb line.
 - The bascule span was set to a similar length of the existing, allowing approximately 51.0-feet of horizontal clearance for the channel compared to approximately 50.0-feet of existing horizontal clearance. The vertical clearance and general appearances will be similar to the existing structure.
 - A double leaf, simple trunnion span will appear and operate substantially similar to the existing span to satisfy the New Jersey State Historic Preservation Office (NJSHPO) while also remaining respectful of the aesthetics and history of this prominent crossing. This movable bridge type is also common throughout the County and the State, simplifying maintenance for County staff.
 - The new deck will be a closed deck system (concrete surface) to reduce corrosion of structural components below. New foundations/piers and a new submarine cable to power the bridge systems will also be provided for the replacement of the main span. The intent is to perform much of the foundation work outside the footprint of the existing bridge to reduce impacts to traffic. These are some of the most time intensive activities, and such accommodations will minimize impacts to traffic.
 - To avoid long-term closures of the bridge to vehicular traffic, a fixed temporary bridge crossing is anticipated to be installed during construction while critical elements of the new bascule span are being constructed. The intent is to prevent traffic detours of more than sixty (60) days at a given time during off-peak seasons and avoid vehicular detours during the peak summer season. It is anticipated that smaller vessels will be allowed to pass underneath the temporary fixed span.
- A new, strengthened, and resilient fender system will be installed in the navigable channel. The fender system will be extended further beyond the limits of the new piers to allow for channelization of vessels prior to the main span's pier/foundation components.
- A new pre-stressed adjacent box beam superstructure in Span #14 raised 12.0-inches at the abutment.
 - This will address the deficient condition of the superstructure as well as minimize the risk of future deterioration by increasing clearance above water.
 - This superstructure type will maintain aesthetic consistency between existing approach spans.
 - This will reduce flooding on the bridge as the approach roadways are exposed to flood events.
 - This improves resiliency of the low-clearance span especially in consideration of future sea level rise.
- Raising of Span #1 12.0-inches at the abutment.
 - This will reduce flooding on the bridge as the approach roadways are exposed to flood events.

- This will minimize risk of future deterioration by increasing clearance above water.
- This improves resiliency of the low clearance span especially in consideration of future sea level rise.
- Replacement of the flanking spans immediately adjacent to the bascule span.
 - A similar pre-stressed concrete structure type similar to Span #14 is anticipated.
 - Directly over the counterweights where space is limited, steel framing and exodermic decking is anticipated.
- A new 6.0-foot wide sidewalk along the North fascia.
 - This will provide pedestrian connectivity along both fascias of the structure and allow County staff safer access to the bridge house. New pedestrian railings will be installed to coincide with this element.
 - This also improves pedestrian safety by no longer having pedestrians needing to cross the County Road at the base of the bridge where sightlines are limited.
- New warning gates and traffic signals.
 - An upgraded movable span safety system will serve to alert vehicular and pedestrian traffic of span openings with modern warning gates built to withstand extreme wind loads. These gates would not be expected to stop a vehicle in a head-on collision.
- Proposed scour countermeasures at the East abutment.
 - $\circ\,$ Scour countermeasures to protect the abutment and mitigate risks from large storm events.
- Partial depth removal and reconstruction of the existing approach span deck within the roadway.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following

completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination*. The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
- B. Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.

B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be emailed or mailed to the following address:

Email: Bishel.Baby@usace.army.mil Mailing Address: U.S. Army Corps of Engineers Philadelphia District Attn: Bishel B. Baby 1650 Arch Street, 7th Floor Philadelphia, PA 19103-2004

REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT CHANNEL STR. NO. 0500-006

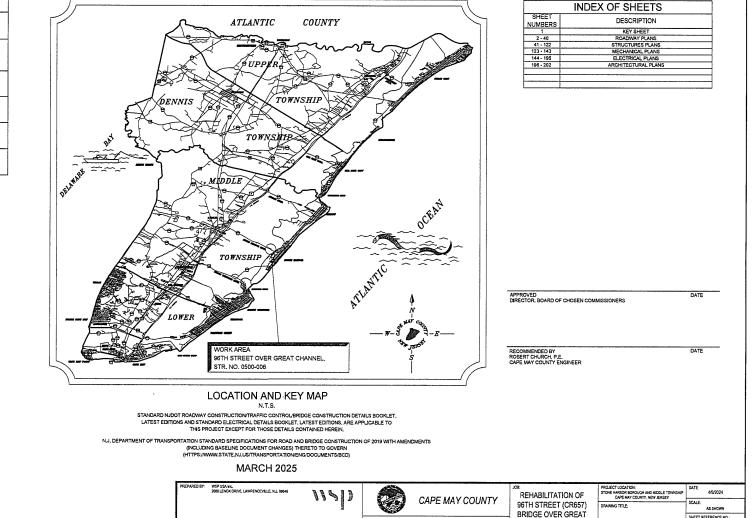
MARC S. ESPOSITO

N.J. PELICENSE NUMBER: 24GE0484500

DATE

PUBLIC UTILITIES

SOUTH JERSEY GAS COMPANY 1708 U.S. ROUTE 9 NORTH CAPE MAY COURTHOUSE, NJ 08210 609-465-2900
ATLANTIC CITY ELECTRIC CMCH OPERATIONS 420 U.S. ROUTE 9 NORTH CAPE MAY COURTHOUSE, NJ 08210 609-463-3617
COMCAST COMMUNICATIONS, INC. 901 WEST LEEDS AVE. ABSECON, NJ 08201 695-677-732
VERIZON NEW JERSEY, INC. 657 FLORIDA GROVE RD. HOPELAWN, NJ 08861 732-683-5174
STONE HARBOR DEPT, OF WATER AND SEWER 9508 SECOND AVE. STONE HARBOR, NJ 08247 609-368-4223
CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY 1523 U.S. ROUTE 9 NORTH CAPE MAY COURTHOUSE, NJ 08210 609-465-9026



KYLE G

Drawn by

aanao

Designed by

##\$\$###

Checked by

CHANNEL

STR. NO. 0500-006

SHEET REFERENCE NO .:

SHEET NO.; CO1 of 202

KEY SHEET

NOTE:

BEFORE STARTING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, CAPE MAY COUNTY, USCG AND

OTHER INTERESTED PARTIES OF THE SCHEDULE AND STARTING DATE. TRAFFIC CONTROL MUST BE MARKED BY

THE CONTRACTOR, AND THE UTILITIES PROTECTED AS REQUIRED BY THE UTILITY COMPANIES.

SEQ NO ITEM NO. DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY					DIS	TRIBUTION: PLAN SHEE	TQUANTITY				
1 151000M IPERFORMANCE BOND AND PAYMENT BOND 2 152015P IPOLLUTION LIABILITY INSURANCE		LUMP SUM					1				1			1	1 1	[
3 153003P PROGRESS SCHEDULE	LUMP SUM	LUMP SUM						1			5				1	
4 152005M PRODUERSS SCHEDULE UPDATE 5 114003P IMOBILIZATION 6 150000M IHEAVY DUT SILT FERCE, ORANCE	UNIT	18 LUMP SUM		18						2						
6 15800044 HEAVY DUTY SILT FENCE, ORANGE	L.F.	200		200							r F			1		
7 158030M INLET FILTER TYPE 2, 2' X 4' 8 158048M (FLOATING TURBICITY BARRIER, TYPE 3	UNIT L.F.	4 300	4	300		D-1 2	D-3 2									
9 158052P CONCRETE WASHOUT SYSTEM	LUMP SUM UNIT	LUMP SUM		2												
10 150/73M (OL ONLY EMERGENCY SPILL KIT, TYPE 1 11 160004M (PLEL PRICE ADJUSTNENT 12 101002P (FINAL CLANUP	DOLLAR	DOLLAR		<u> </u>			<u> </u>							+		
12 161000P FINAL CLEANUR 13 201000P CLEARING SITE	LUMP SUM	LUMP SUM								Į						
14 202008M EXCAVATION, TEST PIT	C.Y.	10		10												F 1846 1
15 202021P REMOVAL OF PAVEMENT 10 203021P 1-14 SOL AGGREGATE	S.Y. C.Y.	185 104	185	104			C-3 66							-		
17 3010C6P SLBBASE	C.Y.	92	92			C-1 46 C-1 27 C-1 462	C-3 46							1		
19 401000P HMA MILLING, 3" OR LESS	C.Y. S.Y	42 806	42 800			C-1 27 C-1 452	C-3 15 C-3 344									
20 401027M (POLYMERIZED JOINT ADHESIVE 21 401030M (TACK COAT	I.F. GAL	940		\$40 400				[1	
22 401054M (HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	TON	301	301	-00		C-1 173	C-3 128									
23 401084M HOT VIX ASPHALT 19 M 64 INTERMEDIATE COURSE 24 401084M HOT VIX ASPHALT 25 M 64 BASE COURSE	TON ION	44 55	44 65	1		C-1 27	C-3 17 C-3 24									
25 601970M ICLEANING EXISTING PIPE, 12' TO 24' DIAMETER	L.F.	500		500												
26 662090M IRESET EXISTING CASTING 27 602216M CLEANING DRAINAGE STRUCTURE	UNIT	4	4	4		D-1 2	0-3 2								+	
28 GC2220M TRENCH CRAIN	L.F.	61	61 20		·*	0-3 61										
29 WOCO DECKINC 30 B68012P CONCRETE SIDEWALK, 4"THCK 31 G6035P HOT WIK ASHALT DRVCDAY, 6 THCK	б.Ү. S.Y	20 293	293			C 3 20 C-1 163	C-3 130						elemente de la constance de la	+	+	
31 606039P HOT MIK ASPIALT DRIVEWAY, 6"THICK 32 606051P CONCRETE DRIVEWAY, 0"THICK	5.Y. S.Y.	29 78	29 78			C-3 29 C-3 78								1	1	
33 RESET DRICK PAVERS	3.Y.	78 90	90			C-3 28	1									
34 6/600MP DETECTARLE WARNIN'S SLRFACE 35 607021P 9" X 18" CONCRETE VERTICAL CURB	9.Y. LF.	2 707	2 707			C-1 1 C-1 435	C-3 1 C-3 272 C-3 3									
3. 65/02/9 F X 15 CONCECTE VARIOLA CURB 36. 6580CP NONVEGETATIVE SURFACE. HOT MIX ASPINLT 57. 6500CM FEAM CUDG Faul.	S.Y.	18	8.			C-1 73	C-3 a	terre terr						·····	i	
37 I 609003M /BEAM GUIDE RAIL 38 609027M TANGENT GUIDE RAIL TERMINAL	L.F.	164	104			C-1 151 C-1 3	C-3 13 C-3 1	1								
39 609039M BEAM GUIDE RAIL ANCHCRAGE 40 609058M AFPROACH GUIDE RAIL TRANSITION TL-2	UNIT	1	1			C-1 1	C-3 1 C-3 1	a a a a a a a a a a a a a a a a a a a			· · · · · · · · · · · · · · · · · · ·					
41 610003M TRAFFIC STRIFES, 4"	L.F.	2838	3	2.338		C-1 2	C-3 1								+	
42 610006M TRAFFIC STRIFES, 6* 43 610009M TRAFFIC MARKINGS	L.F. S.F.	2648		2,548												
44 610016M TRAFFIC MARKINGS, UNES, 12") L.F.	70 207		70 207										<u> </u>	1	
45 610017M HAH+IC MAHRINGS, LINES, 24* 46 610021M RFM, BI-DIRECTICNAL, AMBER LENG	L.F. UNIT	<u>98</u> 17		96 17	-											
47 610023M IHEST PATTERNED CROSSWA K	S.Y.	42 50	42			C-3 42									1	
48 6120CP REGULATORY AND WARNING SIGN 49 1651255M RESET WATER VALVE BOX	S.F. UNIT	50	1	50		D-3 1				1					1 1	li
50 (653004M RESET GAS VALVE DOX 51 802021M ITREE RENOVAL, OVER 6' TO 12' DIAMETER	UNIT	4	4			D-3 4 C-3 1				1	1			1		1
51 6440209 TCPS01, SPRADING 4" THCK 53 6840209 TCPS01, SPRADING 4" THCK 53 8840159 IBORRCW TOPS0II.	S.Y.	52	52			C-3 52					<u>t</u>				1 1	
53 804015P BORROW TOPSOIL 54 808000P FIBRTILIZING AND SEEDING, TYPE A-3	C.Y. S.Y.	6 52	52	6		C-3 52				1	(1	1
55 SCROOM FIBER MULCHING	S.Y.	52	52			C-3 52	1							1		
56 809012M GRAVEL MULCHING 57 800018M WOOD MULCHING	S.Y. S.Y.	176	176			C-1 176 C-3 4									<u> </u>	
55 BIOCOM MOVING	ACRE	1		11												
		· · · · · · · · · · · · · · · · · · ·							1.00.00 Carl 1.00 Car	****	• • • • • • • • • • • • • • • • • • •		**** *******			
										-						
				1										+	+	
				1												
	1															
	1			1				2							1	
				1											1 1	
						a - agi / - y y palaggat - i - i - agi aliy					-		`		1	
f 2	ł	1		i l		1	I	1	1	1	1	1		1	1 1	
			PREPARED	BY: WSP USA Inc. 2000 LENOX DRIV	E. LAWRENCEVILLE. N.J.	06648			à.		JO8:		PROJE	CT LOCATION:		DATE: 4/9/2024
			PREPARED	BY: WSP USA Inc. 2000 LENOX DRIV	E. LAWRENCEVILLE, N.J.	08848	116)	CAPF	MAY COL		ABILITATION OF		CT LOCATION: HARBOR BOROUGH CAPE MAY COUNT	AND MIDDLE TOWNS Y, NEW JERSEY	HP 4/9/2024
			PREPARED	BY: WSP USA Inc. 2000 LENOX DRIV	E. LAWRENCEVILLE, N.J., I	00848	116)	CAPE	MAY COL	JN IY 96TH	STREET (CR657) DRAW	CAPE MAY COUNT ING TITLE:	Y, NEW JERSEY	HP DATE: 4/9/2024 SCALE: N.T.S.
			PREPARED	IBY: WISP USA Inc. 2000 LENOX DRIV	E. LAWRENCEVILLE, N.J. (06546	115)			96TH BRID	STREET (CR657 GE OVER GREA) DRAW	CAPE MAY COUNT ING TITLE: ESTIM	Y, NEW JERSEY	SCALE: N.T.S. SHEET REFERENCE NO.:
				BY: WSP USA Inc. 2000 LENOX DRIV		06648 NSE NUMBER: 1811020	DATE		EV	#	96TH BRID	STREET (CR657) DRAW	CAPE MAY COUNT ING TITLE:	Y, NEW JERSEY ATE- UTION	SCALE: N.T.S.

				<u>51AP</u>	NDARD CON	ISTRUCTION	NOTES FOR ROAD	IMPROVEME	<u>NIS</u>					
			Linear Features											
	Existing		PROPOSED											
									Topogra	phical Features		Topographic	al Features	
	rrr		Telephone Cont	uit				Existing	PROPOSED		Existing	PROPOSED	<u>.</u>	
	E E E		E Electric Condui CTV CTV Cable TV	(Highway or Utility)					2	inieta (TYPE B/E)	0	•	Guide Rail Slotted Rail Terminals Beam Guide Rail Anchorages	
	F0 F0									inlets (Type A)	⊳	•	Guide Rail Extruder Terminal	
	(Size & Type)	i= .=	(SIZE & TIPE) Sanitary Seven	or Storm Drains				0	۲	Manholes (Label Type or Utility)	Hen.	=	Monuments ROW Monument (ROW Control Point	
	(Over 30° - Drawn is Siz	w (icrete or Bituminous	3					Reset (Inlets or Manhales)		TEST PIT NUMBER	•	5)
			Shoulders		,				⊠ ©	Reconstructed (injets or Manholes)			Test Pit	
			Curba							Cast Iron Extension (Frame or Ring) (Inlet or Manhole)		÷	Boring with Ground Water Observation Well	
	······	• • • •	(C)(F) Slopes (Cut & 10+00	Fill)						New Manhole Casting, Square Frame, Circular Cover	Baring Number	BORING NUMBER	Borings (Boring Number)	
	 								<u>s</u>	Square Frame, Graviar Cover R.C. End Section or C.M. Headwoll	õ	Õ	Decidous Tree (Size, Kind)	
	Existing RDW. Une		Twp., City, Cou PROPOSED R.O.W. LINE	-						C.M. Headwall Headwalls	*		Evergreens	
	Existing ROW. & No Access		P. R.O.W. & NO ACCESS LINE	nes (Access Permitt	ed)				~	Headwalls & Aprons	ô	3 	Bush	
			Right of Woy L	nes (No Access)				<i>1</i> ~\	~		~~~~	22223	Hedges	
			Property Line					¥	•	Water Gate Valves	*	*	Swamp	
			Fonce (Size &	Туре)				8	•	Reset Water Gate Valves				
		a	Beam Guide R	0				Ğ	•	Gas Gats Valves				
			Reset Beam G						•	Reset Gas Gate Valves				
	⊢−−−		Noise Walls					And.	*	Hydranta				
	щиниции	шц. ц	Wetland Umit I	ine					*	Reset Hydrants				
			Heavy Duty Sill	Fence, Black				*	+	Utility Pole (Type & Number)				
	Ditch		Heavy Duty Sil	Fence, Orange					TEMP	Temporary Utility Pole				
			Ditches					8	8	Traffic Signal				
		=	Railroad Tracks					撸	J.B.	Junction Box				
			Tree Line					Ø	Ð	Fiber Optic Junction Box				
								<i>រង. ៖ បត្ត។</i> ក្ន	*	Junction Box Foundation				
								+	•	Signa				
	ABBR	EVIATION	IS USED IN THIS CONTR	ACT				π	x	Vertical Panels				
BK. AHEAD, BA	ACK	J.B.	JUNCTION BOX	RCCP, R.C.C.P.	REINFORCED CON	CRETE CULVERT PIPE								
. AUXILARY B.L. BASELINE		LT., RT. L.O.D.	LEFT, RIGHT UMIT OF DISTURBANCE	RCEP RCP, R.C.P.	REINFORCED CON									
	IDE RAIL ANCHORAGE	LO.E. LO.P.	LIMIT OF EXCAVATION LIMIT OF PAVEMENT (PAVING)	RMC, R.M.C. RNMC, R.N.M.C	RIGID METALLIC C RIGID NON-METAL	CONDUIT								
. BITUM. BITUMINOU G. BUILDING		L.O.M. M.B.	LIMIT OF MILLING	ROW, R.O.W. R.R.	RIGHT OF WAY RAILROAD									
C.L. CENTERLIN CAST IRON	N PIPE	N.P. MAX. N.E.C.	MILE POST MAXIMUM	RTE., RT. SAN.	ROUTE									
P. CORRUGAT C. CONCRETE COUNTY F	TED METAL PIPE	M.E.P.	MEET EXISTING CURB	SW, SDWK. S.H.D.	SIDEWALK STATE HIGHWAY D	EPARTMENT								
CURB TRA	ANSITION	MIN. MTD	MINIMUM MANUFACTURED TREATMENT DEVICE	SHLD. S. S.L.	SHOULDER SURVEY LINE									
V. CULVERT DIA. DIAMETER DEPRESSE		ND. N.T.S.	NUMBER NOT TO SCALE	S.O.D. STY.	SUBBASE OUTLET STORY	UKAIN								
DITCH EX	CAVATION	N.V.S. PAVT.	NON VEGETATIVE SURFACE PAVEMENT	T, TAN TBA	TANGENT TO BE ABANDONE	D								
DRILL HOL DRIVEWAY		PERF. P.G.L.	PERFORATED PROFILE GRADE LINE	TOR. TEL.	TO BE REMOVED TELEPHONE									
W.B., N.B., S.B. EASTBOUN NORTHBOU ELEV. ELEVATION	UND, SOUTHBOUND	化 P.L. PK	PROPERTY LINE, PROFILE LINE PARKER KAYLON MASONRY NAL	TEMP. T.G.R.T.	TEMPORARY TANGENT GUIDE F	RAIL TERMINAL								
T. EXISTING	uide rail terminal	POC, P.O.C. POL, P.O.L. POT, P.O.T.	POINT ON CURVE POINT ON LINE	тнк., тн. түр.	THICK TYPICAL UNDERDRAIN					,				
FORCE WA	AN	POT, P.O.T. PRC, P.R.C. PROP.	POINT ON TANGENT POINT OF REVERSE CURVE PROPOSED	U.D. UP, U.P. VAR.	UTILITY POLE VARIABLE, VARIES									
HEIGHT		PROP. PT. P.T. PVC. P.V.C.	PROPOSED POINT OF TANGENCY POLYVINYL CHLORIDE PIPE,	W.C.V.C. WM	WHITE CONCRETE WATER METER	VERTICAL CURB								
HEADWALL HYDRANT	-	PVC, P.V.C.	POLYVINYL CHLORIDE PIPE, POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION	WM X-SECT	CROSS SECTION		.							
INVERT IRON PIN		PVI, P.V.I. PVT, P.V.T. P	POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY, PAVEMENT RADIUS							· · · · · · · · · · · · · · · · · · ·		<u></u>		
ISLAND		ĸ	KADIUS			PREPARED BY: WSP USA 2000 LENG	IC. X DRIVE, LAWRENCEVILLE, N.J., 08648	116.13		à.		TATION OF	ROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY	CATE: 4/9/202
								1120		CAPE MAY COUNTY			CAPE MAY COUNTY, NEW JERSEY	SCALE:
								3	1	GP	BRIDGE O	VER GREAT	CONSTRUCTION	N,T.S. SHEET REFERENCE
											CHA			

CONSTRUCTION ACTIVITIES SHALL EXTEND BEYOND THE LIMITS OF	 ALL WORK MATERIALS SHALL MEET THE REQUIREMENTS OF THE LOCAL AND STATE (NEW JERSEY UNIFORM CONSTRUCTION CODE) CONSTRUCTION CODES, LATEST EDITION, AND THE SPECIFICATIONS OF 	HEREN NUESS OTNERWISE NOTED ON THE FUNDS AND UNDER AND THE STOLED CONSTRUCTION, THE CONTRACTOR SHALL AVOUR RANNER TO DETERMINE IF RAMPS CAN BE CONSTRUCTED FER THE FUNDS AND DETAILS.	5. ANY UTILITY STRUCTURE, GRATES, GRATES SHALL BE RESET TO FINISH	IED GRADE ELEVA	ATION.	
ORK AS SHOWN ON THE CONSTRUCTION PLANS,	THE NATIONAL BOARD OF FIRE UNDERWRITERS AND THE NJ DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STANDARD SPECIFICATIONS FOR	 NO SEPARATE PAYMENT WILL BE MADE FOR ANY EXISTING STRIPING THAT IS REMOVED IN THE MILLING PROCESS. 	 ALL UTILITY WORK SHALL BE DONE I APPROVED CONTRACTOR. 	BY ETHER UTILIT	Y OWNER OR BY	
E CONTRACTOR SHALL KEEP THE STREET CLEAR OF DIRT AND BE SPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE URSE OF THE PROJECT, ALL EXCAVATED MATERIAL, SHALL BE MOVED FROM THE SITE AT END OF EACH WORK DAY, NO STOCKPILING "EMINTIED VITHIN FROJECT LIMITS. STACING AND STOCKPILING OF	2. QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND FOR INFORMATION ONLY, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO CONSTRUCT THE PROJECT COMPLETE.	22. CONTRACTOR SHALL CLEAN AND SWEEP AND TACK THE PAVEMENT IMMEDIATELY PRIOR TO OVERLAY.	 CONTRACTOR IS RESPONSIBLE FOR UTILITY OWNER, MANHOLES ARE TO BE RESET BY RE 	SPECTIVE UTILIT		
EXAMINED VEHICLES TO AND STOCKAUNG OF INSTRUCTION MATERIAL AND VEHICLES TO OCCUR OFFSITE IN A PAVED UNTY OWNED LOT. E CONTRACTOR MUST UTILIZE ALL BEST MANAGEMENT PRACTICES	 ALL DIMENSIONS, ELEVATIONS, AND DETAILS OF EXISTING FEATURES SNOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM OR BASED ON UNITED FIELD MEASUREMENTS AND SWYEY. THE CONTRACTOR 	22. COLD JOINTS RESULTING FROM THE PAVEMENT REPAIR SHALL BE TREATED WITH AN APPLICATION OF POLYMERZED JOINT ADHESIVE IN ACCORDANCE WITH THE NJDOT STANDARD SPECIFICATIONS (NO SEPARATE PAYTHENT).	UNLESS OTHERWISE NOTED ON PLA	NS.		
ECONTRACTOR IN ACCORDANCE WITH SOIL EROSION AND SEDMENT ITURBED AREAS IN ACCORDANCE WITH SOIL EROSION AND SEDMENT MIROL STANDARDS.	SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS WHICH MAY AFFECT FARMICATION AND CONSTRUCTION BEFORE COMMENCEMENT OF CONSTRUCTION WORK.	24, CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS WHEN RECONSTRUCTING UNLESS OTHERWISE DIRECTED BY THE EXIGINEER CONTRACTOR SHALL NOTIFY THE EXIGNEER OF ANY				
LEXISTING TREES ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.	 THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH 	QUESTICHABLE DRAINAGE AREAS SO THAT FIELD ADJUSTMENTS CAN BE MADE TO ELIMINATE PONDING.			PERMITS	
E CONTRACTOR SHALL NOT REMOVE ANY PLANT MATERIAL UNLESS EGRICALLY INSTRUCTED TO DO SO ON THE PLANS AND BY THE GINEER. TREES AND BUSHES SHALL NOT BE TRIMMED OR REMOVED INOUT PRIOR APPROVAL OF THE COUNTY,	"NOTES", WHILE PERTAINING TO THE SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.	25, THE LOCATION AND CONFIGURATION OF EXISTING TRAFFIC STRIPES AND MARKINGS SHOWN ON THE PLANS ARE APPROXIMATE. THE COMPRACTOR SHALL WEAKINE AND RECORD THE ACTUAL SIZE	PERMIT TYPE & FILE NO.		EXPIRES (SEE ACTUAL PERMITS FOR ADDITIONAL C	ONDITIONS)
E CONTRACTOR SHALL COORDINATE WITH NEW JERSEY TRANSIT BUS	 THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO BE EITHER REMAINING IN PLACE OR BE 	LOCATION AND CONFIGURATION OF EXISTING TRAFFIC STRIPES AND	1. USCG BRIDGE PERMIT	T.B.D.	T.B.D.	
ERATIONS TO PROVIDE FOR TEMPORARY RELOCATION OF BUS STOPS MAINTENANCE OF BUS SERVICE, IF IMPACTED.	RELOCATED WILL NOT BE DAMAGED, IF THE CONTRACTOR DAMAGES ANY MATERIALS, WHICH ARE TO REMAIN IN PLACE OR BE RELOCATED.	MARKINGS AND REPLACE IN KIND OR AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLAN, THERE WILL BE NO SEPARATE PAYMENT FOR	2. NJDEP COASTAL WETLANDS IP		T.B.D.	
WORK SHALL BE IN CONFORMANCE WITH THE NEW JERSEY BARRIER	ANY MATERIALS, WHICH ARE TO REMAIN IN PLACE OR BE RELOCATED. THE DWARDED MATERIALS SHALL BE REPARED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE	THIS TASK, MEET EXISTING STRIPING AT ALL LIMITS OF CONSTRUCTION OR AS SHOWN ON PLANS,	3. NJDEP FLOOD HAZARD IP	T.B.D.	T.B.D. SEE PERMIT CONDITIONS	
E SUBCODE (CABO/ANSI A117,1/1992).	CONTRACTOR,	28. PROPOSED SIGN LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE.	4. NJDEP WATERFRONT DEVELOPMENT IP		T.B.D.	
WORK SHALL BE IN CONFORMANCE WITH THE NEW JERSEY PARTMENT OF TRANSPORTATION 2019 STANDARD SPECIFICATIONS	 WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL 	CONTRACTOR SHALL LOCATE SIGNS IN COMPLIANCE WITH THE MUTCH RECOMMENDATIONS AND/OR AS DIRECTED BY THE RESIDENT ENGINEER.	5. USACE NATIONMIDE PERMIT	T.B.D.	T.B.D.	
PARTMENT OF TRANSPORTATION 2019 STANDARD SPECIFICATIONS R ROAD & BRIDGE CONSTRUCTION AS REVISED BY THE LATEST PPLEMENTAL SPECIFICATIONS AND THE COUNTY OF	AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THESE ITEMS.	WHERE DIRECTED BY THE RESIDENT ENGINEER, EXISTING SIGN POSTS SHALL REMAIN IN PLACE AND WRAP AROUND REFLECTIVE SIGN POST WRAP IN COMPLIANCE WITH THE MUTCO INSTALLED ON THE POSTS.	6. CAPE ATLANTIC SCD CERTIFICATION	T.B.D.	T.B.D.	
NTING, THE CONTRACTOR IS JUNISED THAT THE VARIOUS AUDOT " THAS CONTAINED IN THIS COOLWART STAR FOR REPERFECT ONLY THIS CONTAINED IN THIS COOLWART STAR FOR CONTENTS OF THIS REPERT NULLDAT, STANDARD DEFINIL, AND UTILIZE THE MOST REPERT NULLDAT, STANDARD DEFINIL THE BUD OS SAN HOROMANT THE CONTAINTOR SHULL CLEUM AND MOVE ALL CONSTRUCTION CEREBIS FROM ROLOWAS AND MAINT ANN HE ACCESS TO ALL HORES AND BUSINESS FOR REDISTRIANS AND HACES.	CLEANED AND FUGSIED AS NECESSARY TO MARE THE SYSTEM OPENALE NILLINGT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO A SANTARY SERVER SYSTEM NILLITS IN THE PROJECT AREAS GHULL BE MAINTARED DOREALE AT ALLINES THE CONTACTOR SHALL INGE THE DECESSARY PRECALITIONS TO ANYOD FULMOT THE CATCOL BASING WITH OBERING XS A RESULT OF CONSTITUTION A. HOLDOWN CONTONIN OCCURS, OR XS A RESULT OF CONSTITUTION A. HOLDOWN CONTONIN OCCURS, OR					
IN THE BORNAUSE, AND BUILT CONSIST OF PHONOISNIC A BORNAUSE NAMETS BORNAUSE, AND BUILT CONSIST OF PHONOISNIC A BORNAUSE HARLINS AND CONSTRUCTIVE WARNING BURKEDS WILL BE APPLIED TO DE RAME BORNINGS WITHIN THE PROJECT SUBJECT OF THE DEVINE THE AND A SUBJECT AND A SUBJECT AND A MARKED AND A SUBJECT	IN THE ENERT THE CONTINUENDS OF DEVINIONS DAMAGE ON & DOK THE DRAWLES SYSTEM THE CONTINUENDS AND ALL THE SOME AS DRAWLES SYSTEM THE CONTINUENDS AND ALL THE SOME AS DRAWLESS OF THE DRAWLESS. THE CONTINUENDS AND THE TABLE AND ALL THE DRAWLESS. THE CONTINUENDS AND THE DRAWLESS AND ALL THE DRAWLESS. THE CONTINUENDS AND THE DRAWLESS AND ALL THE CONTINUENCE OF THE DRAWLESS DRAWLESS AND ALL THE CONTINUENCE OF THE SOME AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL THE START OF EACH CONSTRUCTION AND ALL SUBART AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL					
CARETE SOFAUES, AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES ADDRAUES, AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES ACT, OESTCALE WARNING URKACES WILL BE APPLIED TO DE ARAW PORTINED WITHIN THE RROLECT LUTIS AND STORE OF THE ADDRAUES AND ADDRAUES AND ADDRAUES AND STORE OF ADDRAUES AND ADDRAUES AND ADDRAUES WITTED. CONTRACTOR SHALL SAFELY REMOVE RELOCATE TEMPORARY MITTED.	In THE RENGY THE CONTINUE TORY DEPENDICUES LAMAGE ON A CON- BURGES CONTINUE TORY DEPENDICUES (CANADA CONTINUE AND CONTINUE		<u>80.</u>			ATE: AS/0724
SAFETE BORNLES, AND SHULL CONSIGN OF PROVINDIN A SEDEMUK MARTER SCHOLER STATUS HARLTES ACT, DETECTUS HARVE DENTRIES WITHIN THE PROJECT LIMITS OF HARVE DENTRIES WITHIN THE PROJECT SHULL BE A AN STOKE OR BARE PAYEMENT. SCH, RIBING SHARAES HAR NOT WITTED. CONTRACTOR SHULL SHELY REBOVE, RELOCATE TEMPORAREY MATTER.	IN THE RENET THE CONTRACTORS OF REALTINGS OWNED ON A CON- BURGES OWNED THE THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE WATER WATCH AND CONTRACTOR OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL CONTRACTOR A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR HALL CONTRACTOR A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR HALL CONTRACTOR AND A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR OF THE A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF		AY COUNTY 96TH STRE		STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAMING TITLE:	ATE: 45/2024 CALE: N.T.S.
CARETE SOFAUES, AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES ADDRAUES, AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES ACT, OESTCALE WARNING URKACES WILL BE APPLIED TO DE ARAW PORTINED WITHIN THE RROLECT LUTIS AND STORE OF THE ADDRAUES AND ADDRAUES AND ADDRAUES AND STORE OF ADDRAUES AND ADDRAUES AND ADDRAUES WITTED. CONTRACTOR SHALL SAFELY REMOVE RELOCATE TEMPORARY MITTED.	IN THE RENET THE CONTRACTORS OF REALTINGS OWNED ON A CON- BURGES OWNED THE THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE WATER WATCH AND CONTRACTOR OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL PROVIDE A CONSTITUTION OF THE SUCKESS. THE CONTRACTOR HALL CONTRACTOR A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR HALL CONTRACTOR A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR HALL CONTRACTOR AND A CONSTITUTION OF THE SUCKESS AND A CONTRACTOR OF THE A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF THE SUCKESS AND A CONSTITUTION OF		BRIDGE O	EET (CR657 VER GREAT	STONE HARDOR BOROLIGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	4/9/2024 CALE:
CARETE SOFAUES, AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES AND CREATE AND SHALL CONSIST OF PROVIDEN A SDEWAKE MARTES ACT, OESTCALE WARNING URKACES WILL BE APPLIED TO DE ARAW PORTINED WITHIN THE RROLECT LUTIS AND STORE OF THE AND AND AND AND AND AND AND AND AND AND AND AND AND AND AND AND AND AND	IN THE ENDERT THE CONTINUE TORS OF PERFECTIONS OF MANY EDG ON A CONTINUE TORS OF PERFECTIONS OF MANY EDG ON A CONTINUE TORS OF MANY EDG ON A CONTINUE TORS AND A POWDER AS DREATED AT THE BOOKBERS THE CONTINUE TORS AND A POWDER AND A AND A POW	САРЕ М	AY COUNTY 96TH STRE BRIDGE O' CHA	ET (CR657	DRAWNG TITLE:	4/9/2024 CALE: N.T.S.

 THE CONTRACTOR IS DIRECTED TO NOTIFY THE COUNTY CLERK POLICE AND FIRE DEPARTMENT ONE WEEK PRIOR TO THE START OF CONSTRUCTION AND 24 HOURS PRIOR TO ANY IMPLEMENTATION OF ANY DETOUR OR CLOSING OF THE ROADWAY. PRIOR TO CONSTRUCTION, AN INSPECTION IS TO BE MADE BY THE CONTRACTOR AND THE REPRESENTATIVE OF THE COUNTY'S ENCINEERING OEPARTMENT TO DETERMINE WHICH TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM THE PROJECT OR RESET BY THE CONTRACTOR.

THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIAR WITH THE PRESENT CONDITIONS, AND TO EVALUATE FOR ITSELF THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL UTILITY COMPANIES AND SHALL HAVE ALL UTILITIES CLEARLY MARKED OUT BEFORE COMMENCEMENT OF ANY WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER AND SUFFICIENT CONSTRUCTION PROTECTION TO THE WORKERS AND THE PUBLIC OSH AND ALL COUNTY AND STATE CODES SHALL BE FOLLOWED.

THE CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES AND COOPERATE WITH THE COUNTY OF CAPE MAY OURING REPLACEMENT OF DESTING SIONS AND SION POSTS WITHIN THE PROJECT LIMITS DURING CONSTRUCTION OF THIS PROJECT.

GENERAL NOTES- continued

CONSTRUCTION NOTES:

21, THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY, AND MUNICIPAL LAWS, ORDINANCES, AND REGULATIONS.

22. THE CONTRACTOR MUST PERFORM ALL CONSTRUCTION OPERATIONS IN ACCORDANCE WITH THE HIGH VOLTAGE PROXIMITY ACT, ALL OSHA REQUIREMENTS, AND THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

SELMENT CONTROL IN INSU JENEST. 3. THE CONTROL MUST REVOLVE AND MANTAIN ALL NECESSARY SAFEDUARDS TO PROTECT PUBLIC SAFETY AND ADJUMING PROPERTIES. THE SAFEDUARDS TO PROTECT PUBLIC SAFETY AND ADJUST TO INSUFFICIENCY TO ALL PARTS OF THE WORK CONTROL AND TO ASJUST TO INSUFFICIENCY ANY TOAMAGES DONE SHALL BE REPARED AND RESTORED TO THE SATISFACTION OF THE ENGLISHER AT AN COST TO THE COLLETY.

OF THE DURINGEST AT USE TO BOT FO THE DOWN TO SHORE AND COLORS SUPPORTS REQUIRED BY THE WORK, DESKIN THE FOR THE SHORE, AND COLORS SUPPORTS REQUIRED BY THE WORK, DESKIN THE FOR THE PERFORMED BY A PROFESSION, BUILDERS LICENSOR THE STATE OF REQUIRED BY THE THE FOR APPROVAL BY THE ENCLOSED IN DESPARATE OR REQUIRED BY THE WORK, ALL COSTS THEREOF SHALL BE INCLUDED IN PROCE FOR THE WORKS CONTRACT THES.

THE CONTRACTOR MUST MAINT THE CONSTRUCTION STE AND ANY STORAGE STELM AREAT AND CLEAN CONSTITUTION, STORAGE OF POTENTIALLY CONTAMINATION WITH SAFEDER TO CONTAINANT THE CONTRACTOR STORAGE STATUS WITH SAFEDER TO CONTAINANT TO REDUKT STALLADERSPACE INTO THE SURBOUNDING AREAS AND WATERWAY, THE CONTRACTOR IS RESPACED REMOVING AND AREAS AND WATERWAY, THE CONTRACTOR IS RESPACED THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAMINATION THAT WAY COCCUR TO THE WITE SAFEDER OF ANY ORTAGENED ANY OF THE OPENITORS, DELIVERED OF ANY ORTAGENED ANY OF THE OPENITORS.

28. A PRE-CONSTRUCTION MEETING WITH THE COUNTY ENGINEER'S REPRESENTATIVE WILL BE HELD PRIOR TO BEGINNING ANY CONSTRUCTION ON THE PROJECT.

GENERAL NOTES:

- THE CONTRACTOR IS DIRECTED TO NOTIFY RESIDENTS/PROPERTY OWNERS 24 HOURS PRIOR TO ANY CONSTRUCTION WORK IN THER DRIVEW/SIDEDWALK OR ON THEIR PROPERTY. CONTRACTOR IS TO PROVIDE EMERCENCY ACCESS TO ALL SITES DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR IS DIRECTED TO NOTIFY ALL COMMERCIAL SITES OR PROFESSIONAL OFFICES ONE WEEK PRIOR TO ANY CONSTRUCTION WORKIN THEIR DRIVEWAY OR TRAFFIC MODIFICATION NEAR THEIR DRIVEWAY.
- 9. FOR THE DURATION OF THE CONSTRUCTION, THE CONTRACTOR SHALL NOT RESTRICT ACCESS TO ANY RESDENTIAL OR COMMERCIAL BUILDINGS OR DRIVEWAYS WITHIN THE PROJECT LIMITS.
- 10, NO CON WORK
- 11. THE COURSE RESPON REMOVE IS PERM CONSTR COUNTY
- 12, THE C DURIN DISTUI
- 13. ALL EX THE CO SPECIF ENGINE WITHO
- 14, THE CO OPERA AND M
- 15. ALL W FREE S
- 16. ALL W DEPAR FOR R SUPPL CAPE I NEW J TRAFF UNLES VARIO ROADU DOCUM PRINTI DETAIL AND TI CURRE
- 17. AT THE REMOV SAFE A VEHICI
- 18. ALL SIC CONCR RAMP II DISABIL EACH R
- 19. ANY TE CLEAN PERMIT
- 20, THE CC STORE, OTHER CONST

- 20. ALL CURB RAMPS MUST CONFORM TO AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS AS CUTURED IN THE ADA ACCESSBILITY GUIDEUNES (ADAAG) AND SHOWN ON THE PLANS AND DETAILS PROVIDED
- 19. REMOVAL OF EXISTING TRAFFIC SIGNALS SHALL BE PAID FOR UNDER CLEARING SITE
- 18. CONTRACTOR SHALL PERFORM PAVING TO PROVIDE POSITIVE DRAINAGE AND TO ENSURE THAT NO PONDING OCCURS.
- 17. ALL NEW PAVEMENTS SHALL MEET EXISTING PAVEMENTS TO REMAIN SMOOTHLY AND EVENLY WITH NO TRIPPING HAZARDS TO THE SATISFACTION OF THE ENGINEER.
- WHERE EXISTING INLETS OR MANHOLES ARE SHOWN TO BE REMOVED THE COST THERE OF SHALL BE DEENED INCLUDED IN THE PRICE BID FOR THE PAY ITEM "CLEARING SITE".
- 15. MEET EXISTING GRADES AT ALL LIMITS OF CONSTRUCTION.
- 14. DROP CURB SHALL BE PROVIDED AT ALL EXISTING AND PROPOSED HANDICAP RAMPS AND DRIVEWAYS AT LOCATIONS WHERE CONCRETE CURB IS PROPOSED WITHIN THE PROJECT LIMITS.
- UNITY OF INCL. 1. WHERE RAPOROSED SIDEWALK MEETS EXISTING CONCRETE SIDEWALK THE DUSTING CONCRETE SIDEWALK SHALL BE REMOVED TO THE NEAREST DOWNLOW, NOT ON SUMMOUTH ATTHE LIVING TO THE NEAREST DOWNLOW, NOT ON SUMMOUTH ATTHE LIVING TO THE INCLUDED IN THE RAPICSES DID FOR THE VARIOUS SOMWLE PAYTEMEN WITHIN THIS CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE FOR REMOVAL OF CURB OR SOMWLEX
- 12. WHERE APPLICABLE, END CONCRETE CURB AT NEAREST EXPANSION JOINT OR INLET.
- 11, NO JACKHAMMERING ALLOWED AFTER 6:00 P.M.
- 10. ANY DAMAGE OCCURRING TO EXISTING PAVEMENT, SHOULDER, CURBING, TRAFFIC SIGNAL, ETC, BY CONSTRUCTION VEHICLES AND/OR MATERIAL STORAGE SHALL BE CORRECTED IN SATISFACTORY MANNER BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENDINEER.
- CONSTRUCTION NOTES- continued

- DESIGN IS BASED UPON SURVEYED BASE MAPPING CONDUCTED IN 2021 PROVIDED BY MSP.

A LOUTED OF UTILITIES RANGE AND A MORE AND TE INDUSTIES DUSTING AND A DESTING AND A DESCRIPTION AND A DESCRIPTION AND A DESTING THERE RANGE CONTINUES AND A DESCRIPTION AND A DESCRIPTION UTILITY DESCRIPTION AND A DESCRIPTION A DESCRIPTION AND A DE

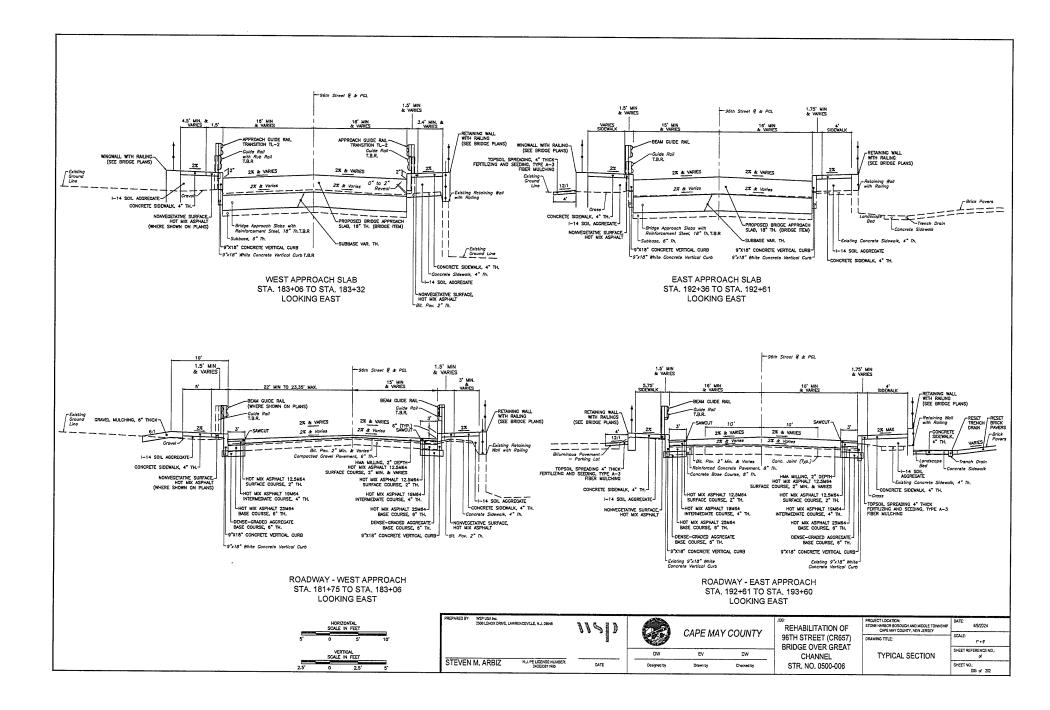
2. UTILITY INFORMATION LABELED ON PLANS IS DERIVED FROM FIELD SURVEY AND RECORDS, SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE WOP EXPRESSIV DISCLAMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDAN TO FELD SURVEY AND RECORDS.

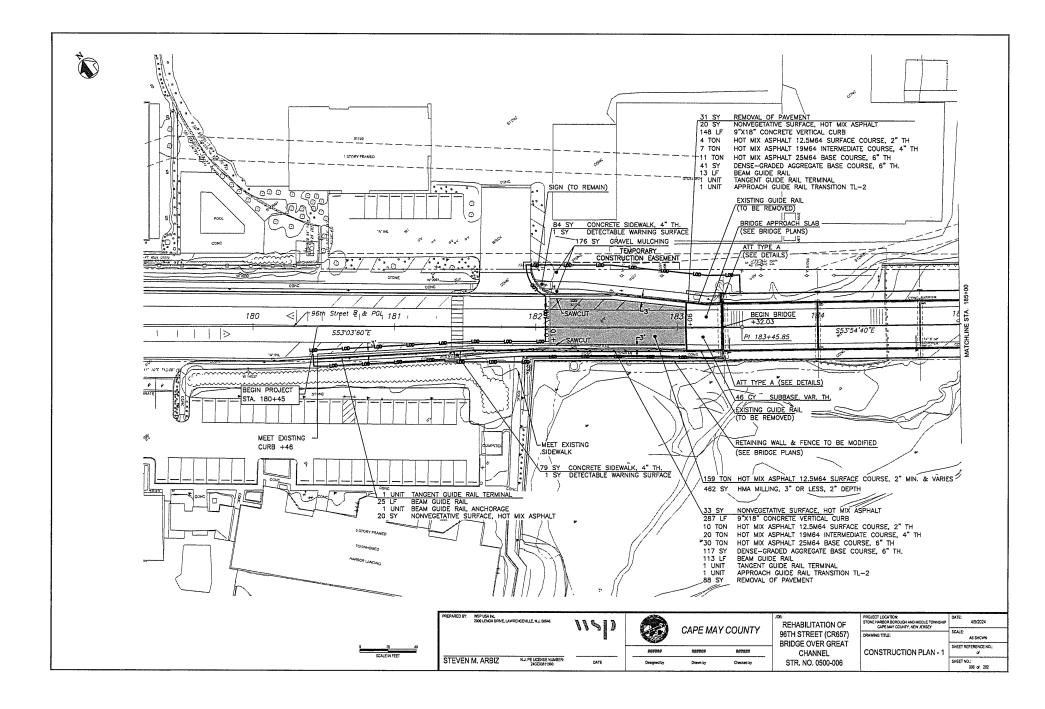
RROW TO THE FIRST OF CONSTRUCTION, THE CONTRACTOR PHILL CONTRACT THE RRW EXERCT INCOME THE COLLING LODGED THE RRW EXERCT INCOME THE COLLING LOCATION SEE AND DIMENSION OF ALL BURGED THITTES. THE COUNT CONTRACT SEE AND DIMENSION OF ALL BURGED THITTES. THE COUNT OF THE CONTRACT AND THE COUNT OF THE COUNT OF THE CONTRACT AND THE COUNT OF THE COUNT OF THE CONTRACT AND THE COUNT OF THE COUNT OF THE CONTRACT AND THE COUNT OF THE COUNT OF THE COUNT OF THE CONTRACT OF THE COUNT OF THE COUNT OF THE COUNT OF THE CONTRACT OF THE COUNT OF THE COUNT OF THE COUNT OF THE CONTRACT OF THE COUNT OF THE COUNT OF THE COUNT OF THE CONTRACT OF THE COUNT OF

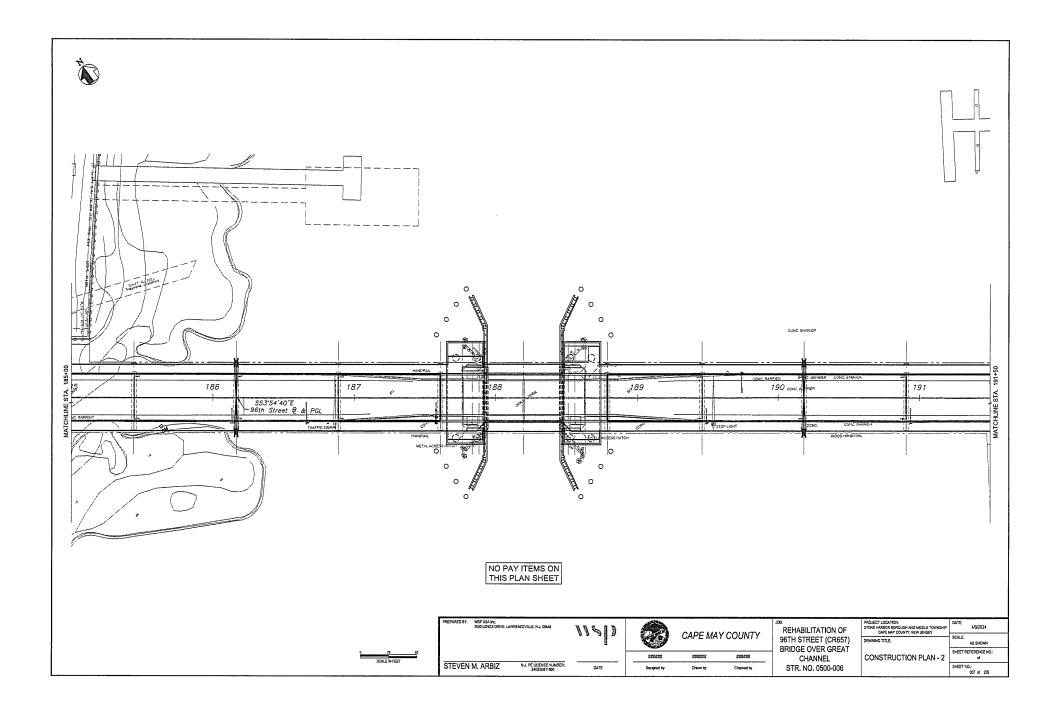
THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE OWNERS OF ANY PRIVATE UTILITIES FOR MARK OUTS.

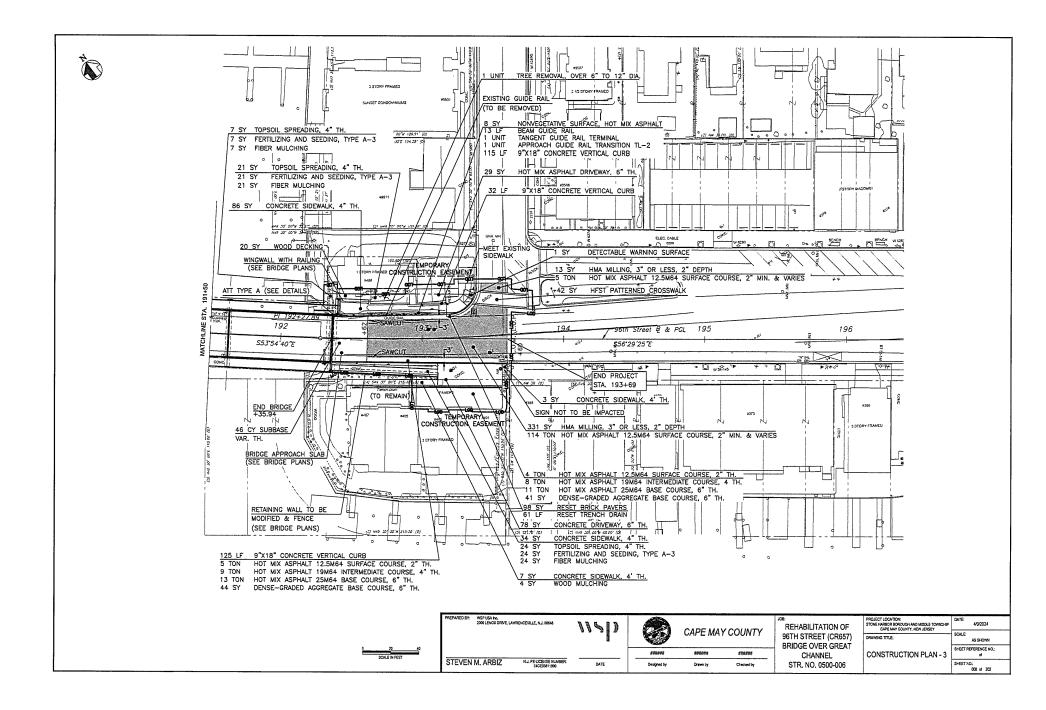
SURVEY NOTES:

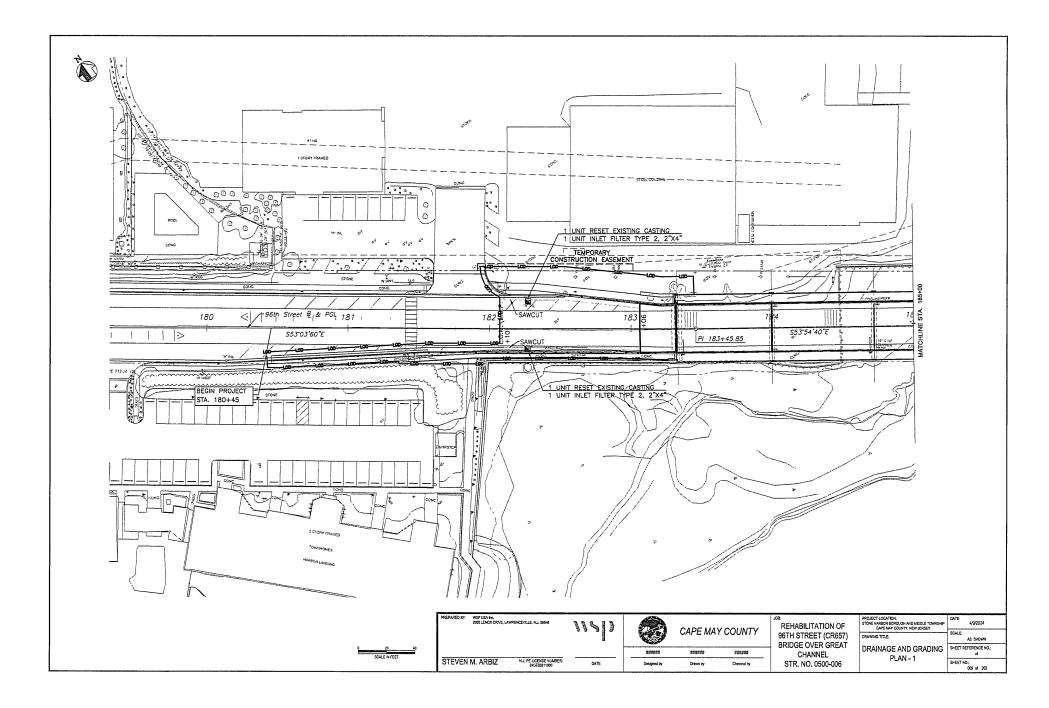
UTILITY NOTES:

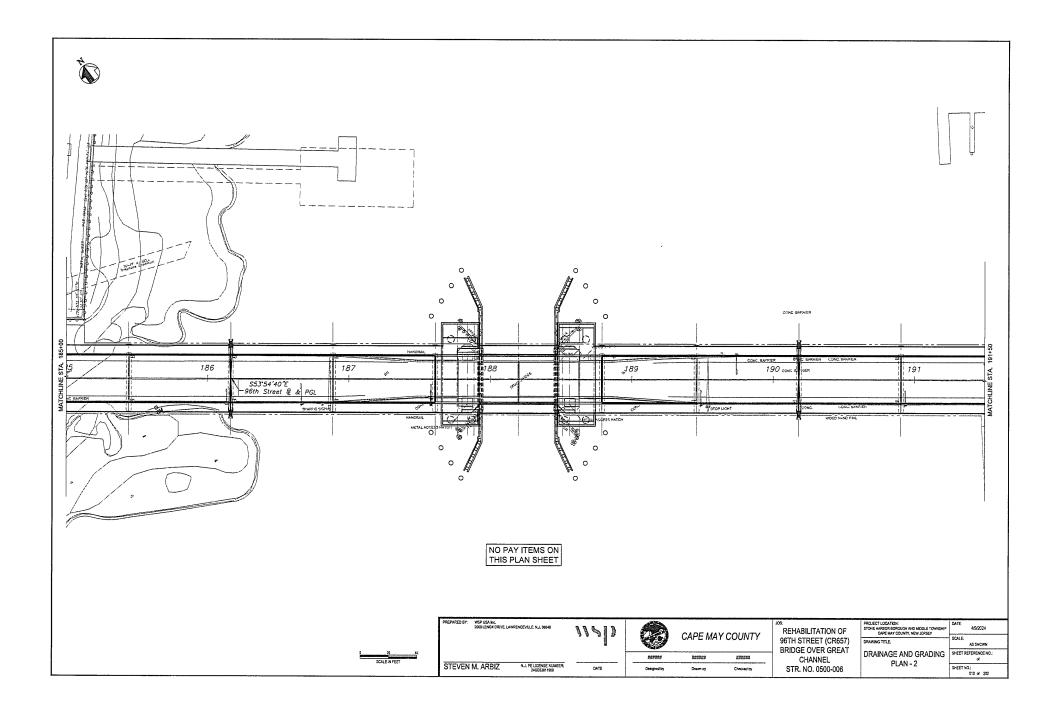


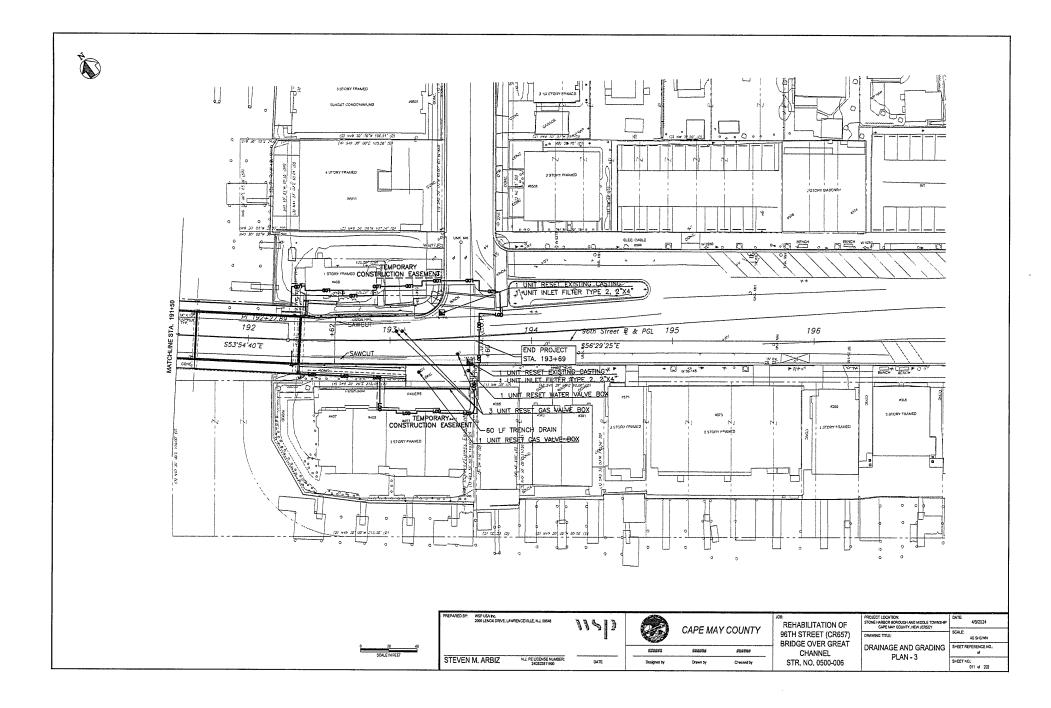


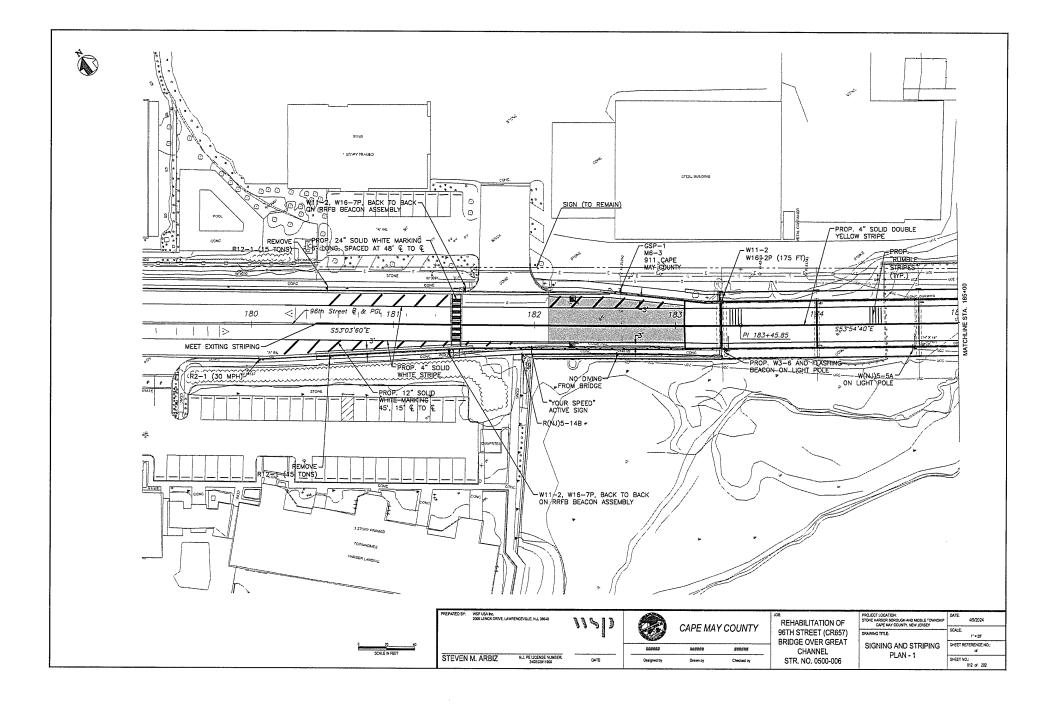




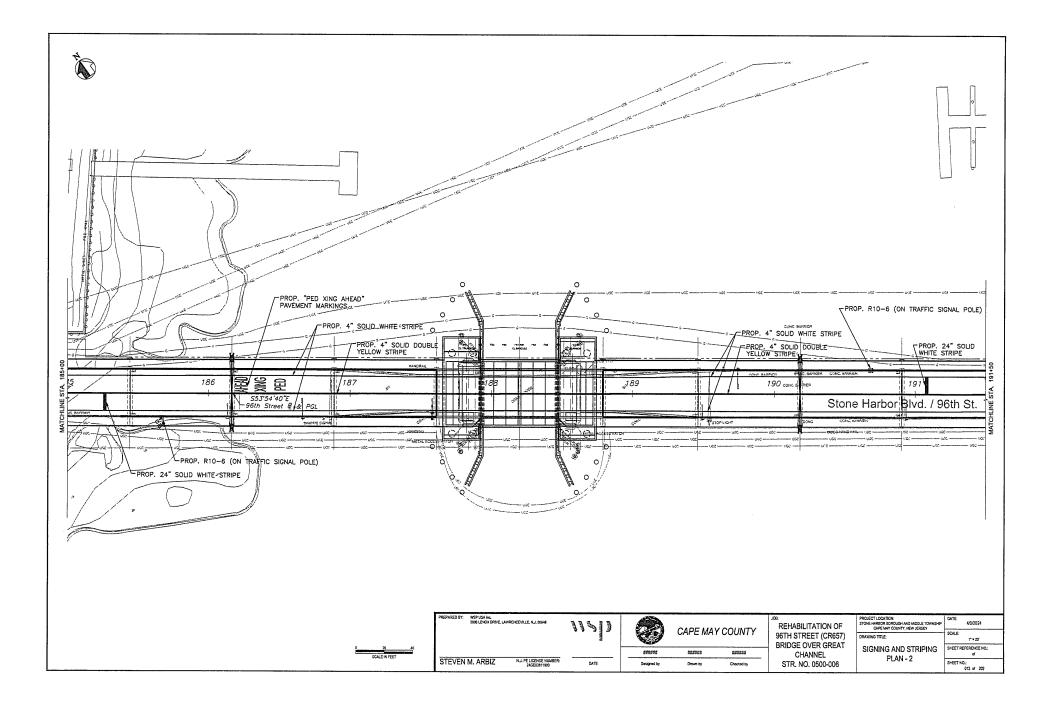


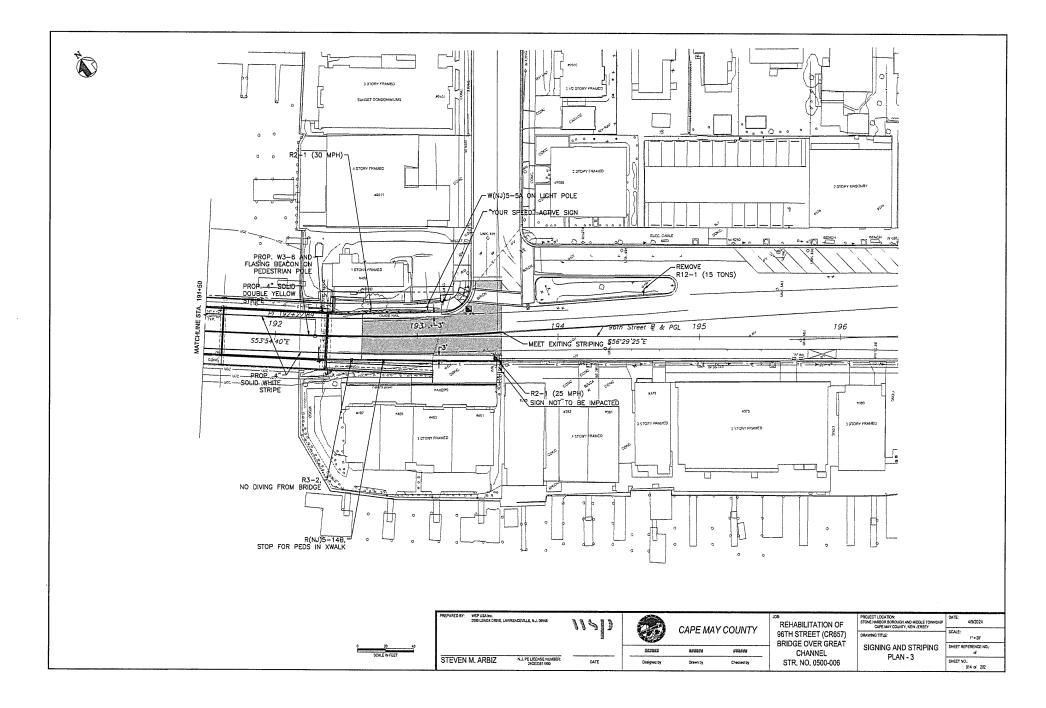


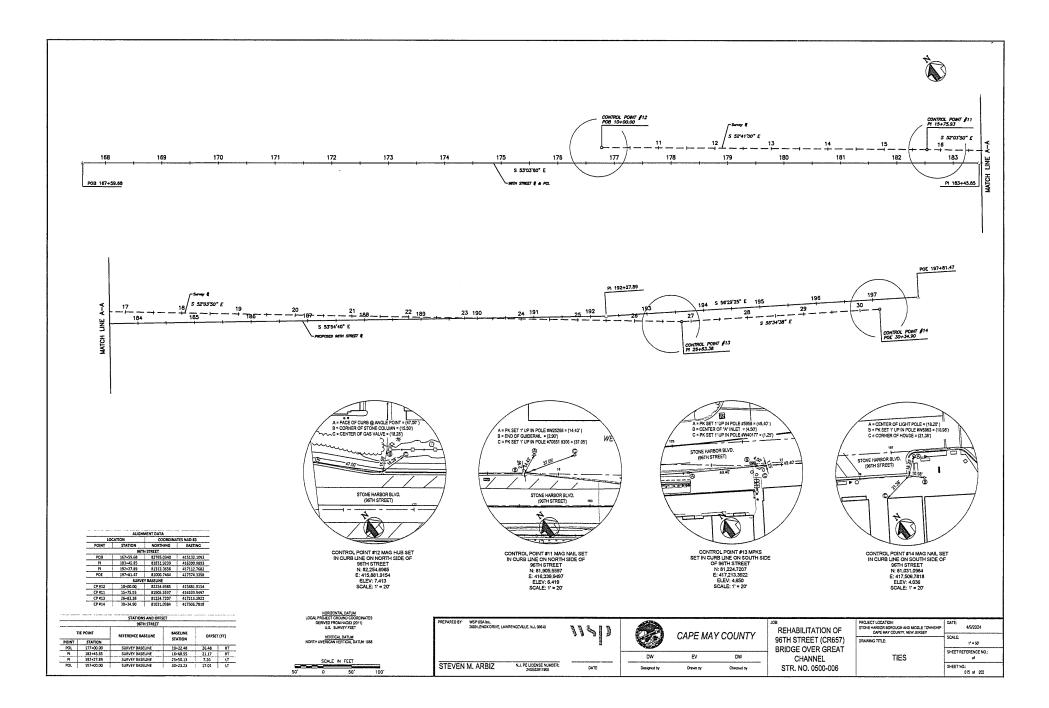


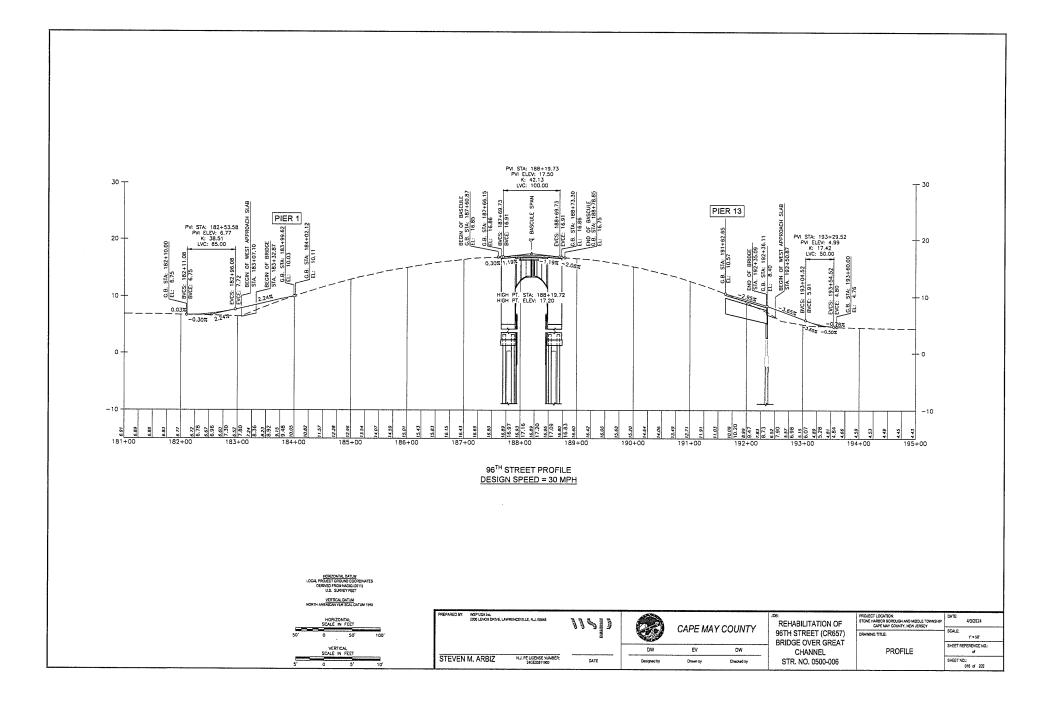


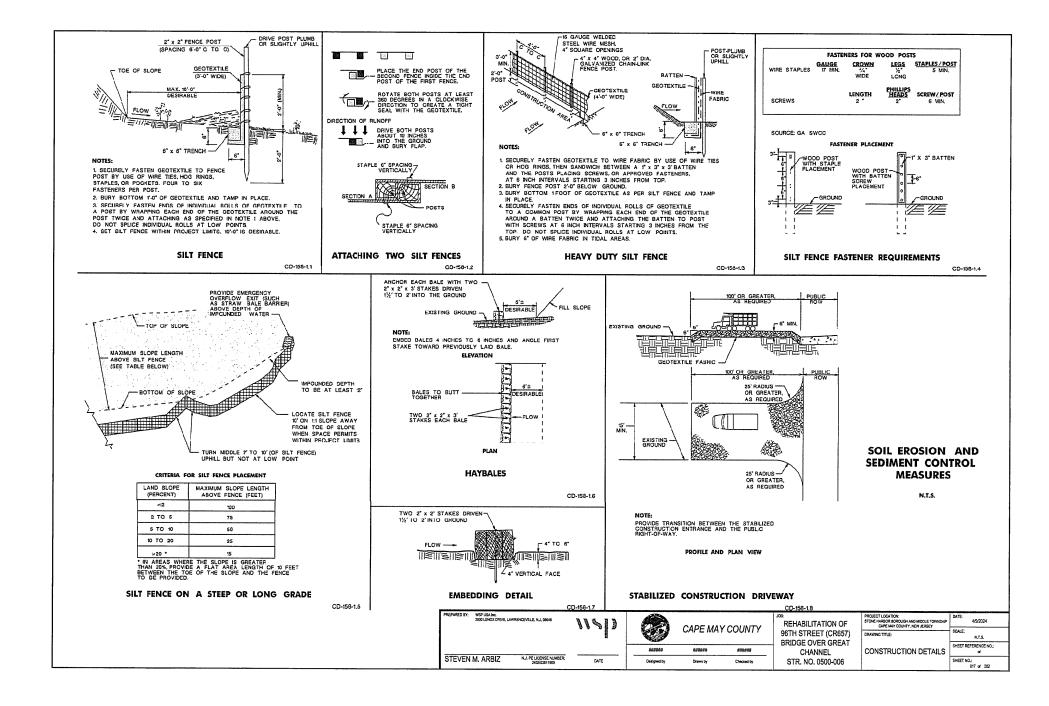
,

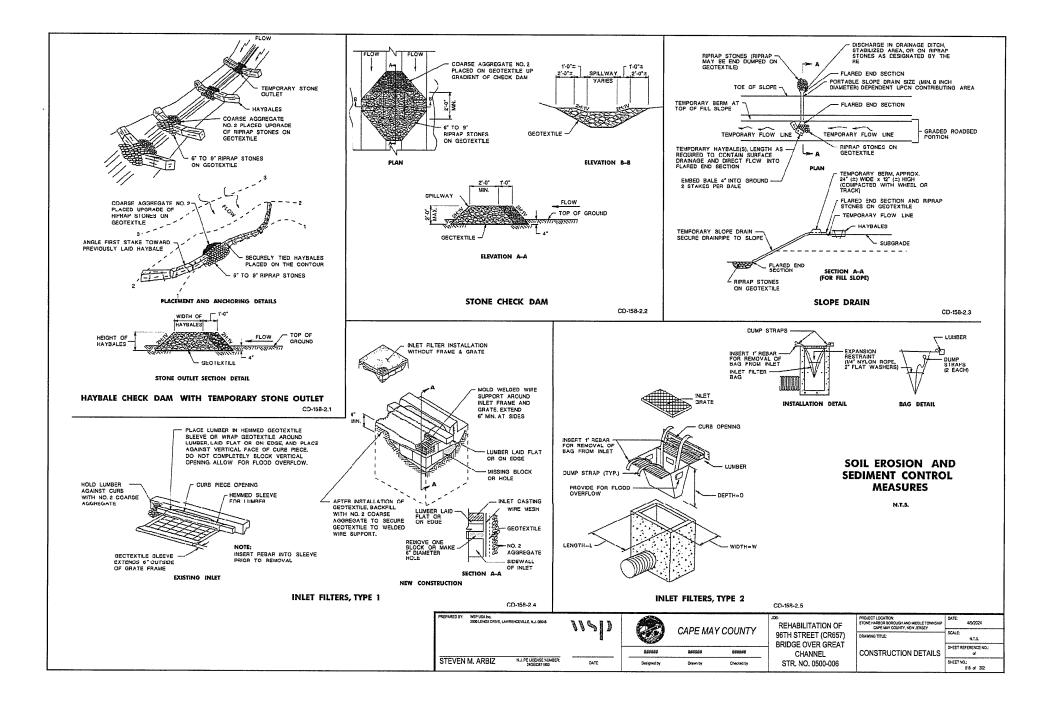


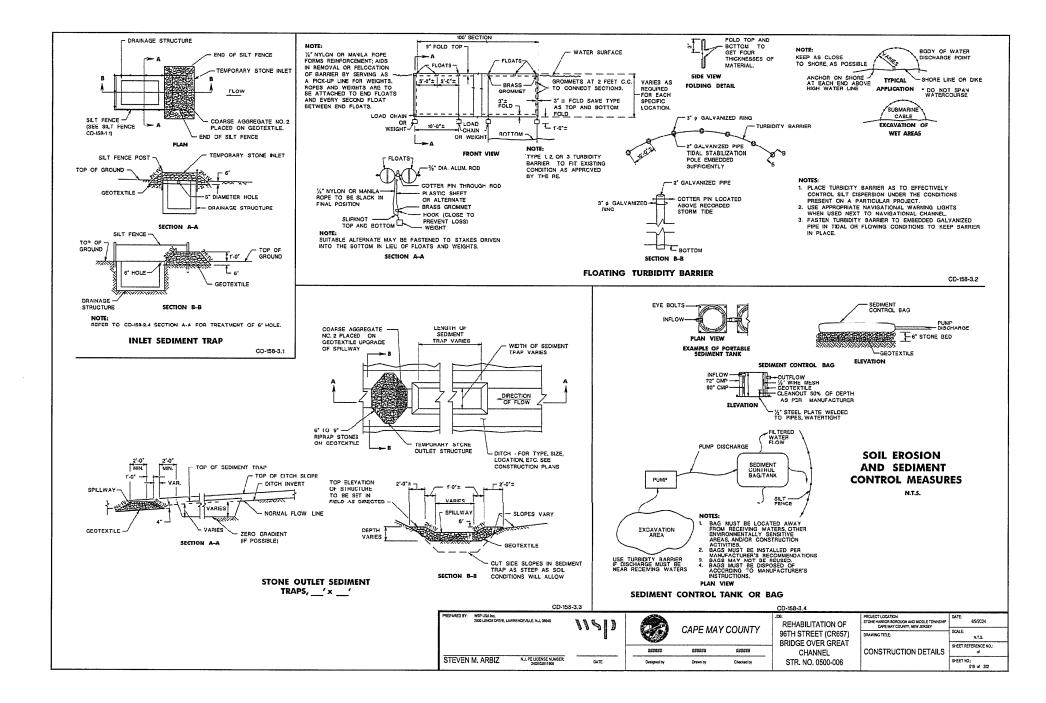


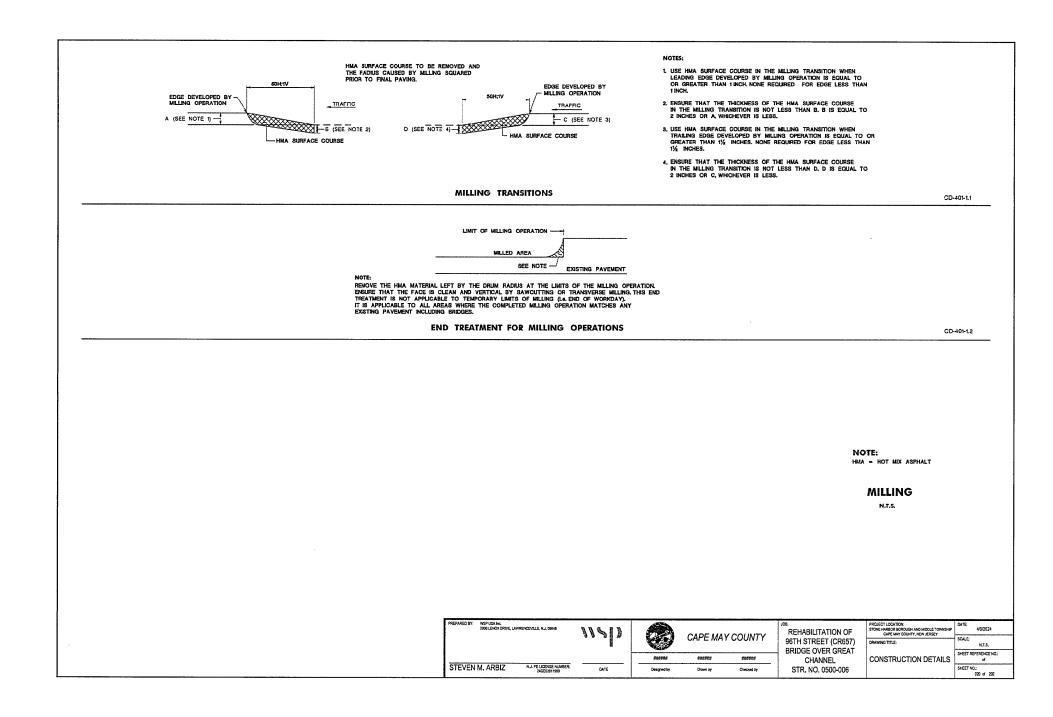


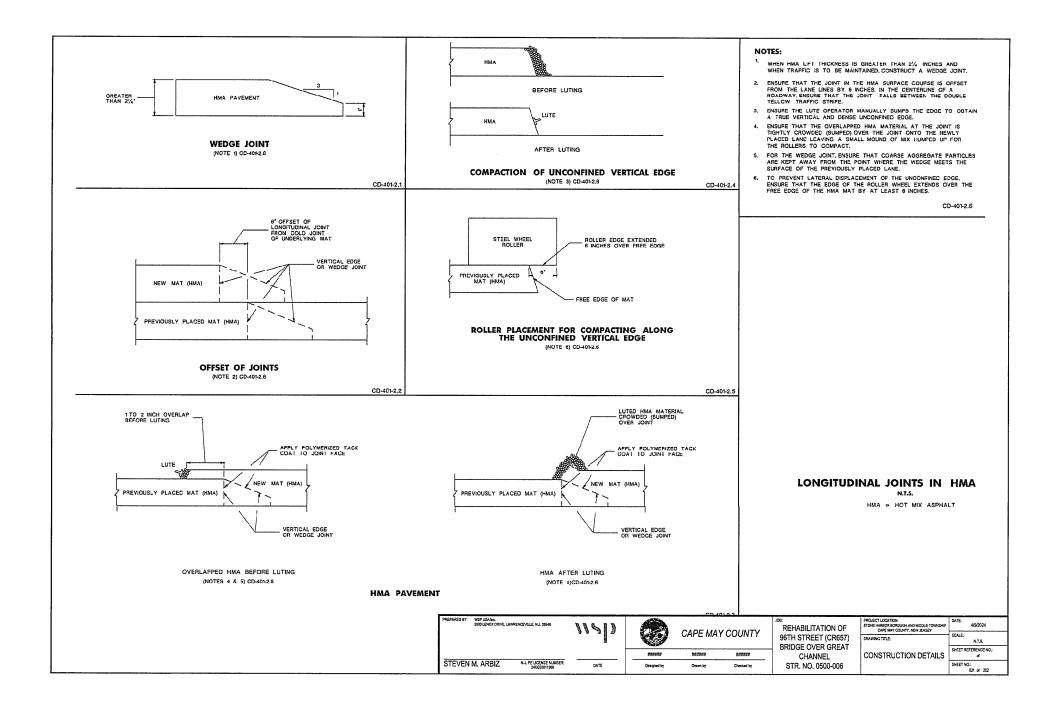


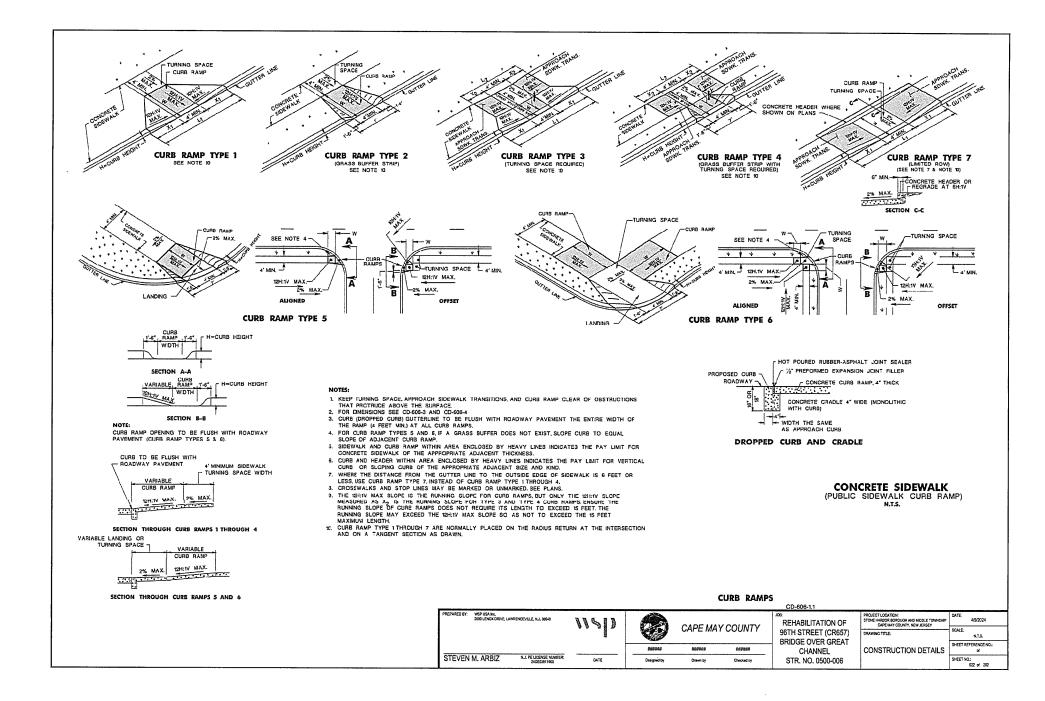


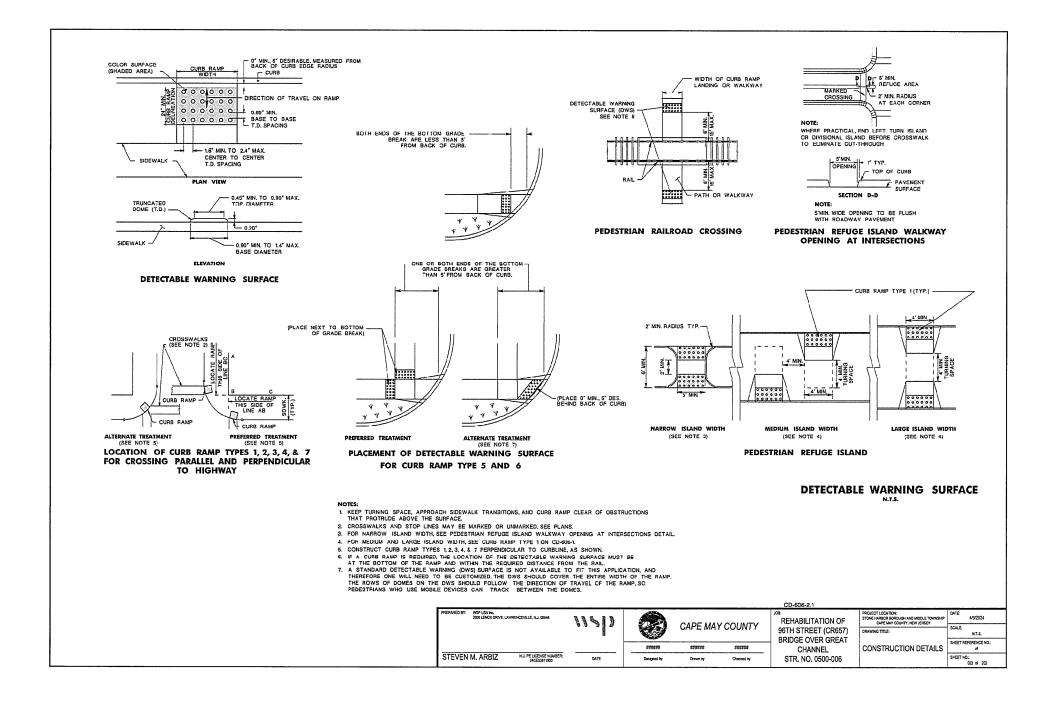












CURB RAMP TYPE 1	CURB RAMP TYPE 3			
N W XIU XII L	0.0 % GUTTER LINE PROFILE	1.0 % GUTTER LINE PROFILE	2.0 % GUTTER UNE PROFILE	3.0 % GUTTER LINE PROFILE
INCHES FLET FEET FEET FEET	H W X10 X11 L1 Y X20 X21 L2	H W X ₁₀ X ₁₁ L ₁ Y X ₂₀ X ₂₁ L ₂	H W Xu Xu L Y Xu Xa L	H W XIU XIL LI Y XIU XIL LI
3 3 2.50 2.50 9.00	INCHES FEET FEET FEET INCHES FEET		INCHES FEET FEET FEET FEET INCHES FEET FEET FEET	INCHES FEET FEET FEET FEET INCHES FEET FEET FEET
4 4 3.33 3.43 10.67	3 2.50 2.50 9.00 0.91 0.91 5.82 4 3.33 3.33 10.67 1.91 1.91 7.82		3 3.13 2.08 9.21 1.20 0.73 5.93 4 4.17 2.78 10.94 2.32 1.54 8.05	
5 5 4.17 4.17 12.33 6 5 5.00 5.00 14.00	5 417 417 1233 291 791 997		4 4.17 2.78 1C.94 2.52 1.54 8.05 5 5.21 3.47 12.68 3.83 2.35 10.18	4 4.76 2.56 11.33 2.99 1.41 6.39 5 5.95 3.21 13.16 4.55 2.14 10.69
7 7 5.83 5.83 15.67	6 2.75 5.00 5.00 14.00 2.75 3.91 3.91 11.83	13 A 2.73 5.76 4.55 14.10 2.75 4.45 3.49 11.94	6 2.75 6.25 4.17 11.42 2.75 5.15 2.16 12.30	6 2.75 7.14 3.85 14.90 2.75 6.11 2.58 12.90
8 8 6.67 5.67 17.33	7 5.83 5.83 15.67 4.91 4.91 13.83 8 6.57 6.67 17.33 5.91 5.91 15.83		7 7.29 4.36 16.15 6.47 3.96 14.43	7 8.33 4.49 16.82 7.68 3.51 15.29
9 9 7.50 7.5C 19.00	8 6.67 17.33 5.91 5.91 15.83 9 7.50 7.50 19.00 6.91 6.91 17.83	3 8 7.41 6.06 17.47 6.72 5.28 16.00 3 9 8.33 6.82 19.15 7.86 6.17 18.03	8 8.33 556 17.89 7.78 4.77 16.55 9 9.38 625 19.63 9.10 5.58 18.67	
1.0 % GUTTER LINE PROFILE		· 3 2.78 2.27 9.05 0.82 0.64 5.46	3 3.13 2.08 9.21 0.95 0.58 5.53	
H W Xau Xau La	4 3.33 3.33 10.67 1.72 1.7? 7.44 5 4.17 4.17 12.33 2.72 2.72 9.44		4 4.17 2.78 10.94 2.27 1.39 7.65	4 4.76 2.56 11.33 2.69 1.27 7.96
INCHES FEET FEET FEET FEET	5 6 3.0 5.00 5.00 14.00 3.0 3.72 3.71 11.45		5 5.21 347 12.68 3.58 2.20 9.78 6 3.0 6.25 4.17 14.42 3.0 4.90 3.00 11.90	
3 3 2.78 2.27 9.05 4 4 3.70 3.03 10.73	7 5.83 5.83 15.67 4.72 4.72 13.45	5 7 6.48 5.30 15.78 5.37 4.22 13.58	7 7.23 486 16.15 6.22 3.81 14.02	
5 5 4.03 3.79 12.42	8 6.67 6.67 17.33 9 7.50 7.50 19.00 6.72 6.72 17.45		8 8.33 5.56 17.89 7.53 4.62 16.15	8 9.52 5.13 18.65 8.94 4.21 17.15
6 5 5.56 4.55 14.10	9 7.50 7.50 19.00 6.72 6.72 17.45 3 • • •		9 9.39 6.75 19.63 8.85 5.47 18.77 3 3.13 2.08 9.21 0.45 0.28 4.72	9 10.71 5.77 20.48 10.51 4.94 19.45
7 7 6.48 5.30 15.78 8 8 7.41 6.06 17.47	4 3.33 3.33 10.67 1.34 1.31 6.68	B 4 3.7C 3.03 10.73 1.53 1.20 6.72	4 4.17 2.78 1C.94 1.77 1.08 6.85	
8 8 7.41 6.06 17.47 9 9 8.33 6.32 19.15	5 417 417 12.33 2.34 2.34 8.68	8 5 4.63 3.79 12.42 2.66 2.09 8.75	5 5.21 3.47 12.58 3.08 1.89 8.97	5 595 3.21 13.16 3.66 1.72 9.38
	6 3.5 5.00 5.00 14.00 3.5 3.34 3.34 10.69 7 5.83 5.33 15.67 4.34 4.34 12.69		6 3.5 6.25 4.17 14.42 3.5 4.40 2.70 11.09 7 7 7.29 4.86 16.15 5.72 3.50 13.22	
2.0 % GUTTER LINE PROFILE	R 667 6.67 17.33 5.34 5.34 14.69		7 7.23 4.36 16.15 5.72 3.50 13.22 8 5.33 5.56 17.89 7.03 4.31 15.34	
H W X10 X11 L INCHES FEET FEET FEET FEET	9 7.50 7.50 19.00 6.34 6.34 16.69	9 9 8.33 6.82 19.15 7.21 5.56 16.87	9 9.38 6.25 19.63 8.35 5.12 17.46	
3 3 3.13 2.08 3.21	<u>3</u>	3 -	<u>3</u> <u>* * * * * * * * * * * * * * * * * * *</u>	3
4 4 4.17 2.78 10.94	4 5 4.17 4.17 12.33 1.96 1.9i 7.92	4 3.70 3.03 10.73 2 5 4.63 3.79 12.42	4 4.17 2.78 10.94 1.27 0.78 6.04 5 5.21 3.47 12.68 2.58 1.58 8.16	
5 5 5.21 3.47 12.68	6 4.0 5.00 5.00 14.00 4.0 2.96 2.91 9.93	6 4.0 5.56 4.55 14.10 4.0 3.37 2.65 10.01	6 4.0 6.25 4.17 14.42 4.0 3.90 2.39 10.29	
5 6 6.25 4.17 14.42 7 7 7.29 4.86 16.15	7 5.83 5.83 15.67 3.96 3.9i 11.93 8 6.67 6.67 17.33 4.96 4.9i 13.93	3 7 643 5.30 15.76 4.50 3.54 12.04	7 7.29 486 16.15 5.22 3.20 12.41	7 833 4.49 16.82 619 2.01 13.11
8 8 8.33 5.56 17.89	8 6.67 6.67 17.33 4.96 4.9i 13.93 9 7.30 7.50 19.00 5.96 5.9i 15.93		8 8.33 556 17.89 5.53 4.00 14.53 9 9.38 6.25 19.63 7.85 4.81 16.66	
9 9 9.38 5.25 19.63			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 10.71 5.77 20.48 9.32 4.38 17.71
3.0 % GUTTER UNE PROFILE				
H W Xw Xu L	4.0 % OUTTER LINE PROFILE	5.0 % GUTTER LINE PROPILE	0.0 % OUTTER LINE PROFILE	7.0 % OUTTER LINE FROMILE
H W X _{LU} X _{LL} L _L INCHES FLET FLET FEET FEET	H W X ₁₀ X ₁₁ L ₁ Y X ₂₀ X ₂ L ₇	H W X ₁₀ X ₁₁ L ₁ Y X ₂₀ X ₇₁ L ₁	H W X ₁₀ X ₁₁ L Y X ₁₀ X ₂ L	H W X ₁₀ X ₁₁ L ₁ Y X ₁₀ X ₁₁ L ₂
H W X _{tu} X _{tL} L _t INCHES FLET FLET FEET FEET 3 3 3.57 1.92 9.49	H W X ₁₁₀ X ₂₁ L ₁ Y X ₂₀ X ₂ L ₂ INCHES FEET FEET FEET FEET INCHES FEET FEET FEET	T INCHES FEET FEET FEET FEET INCHES FEET FEET FEET	H W X10 X14 L1 Y X10 X11 L1 INCHES FEET FEET FEET FEET INCHES FEET FEET FEET	H W X _{1U} X _{1L} L ₁ Y X _{1U} X _{1L} L ₂ INCHES FEET FEET FEET FEET INCHES FEET FEET FEET
H W X _{tu} X _{dt} L _k INCHES FEET FEET FEET FEET 3 3.57 1.92 9.49 4 4.76 2.56 12.33 5 3 5.95 3.21 13.16	H W X ₁₀ X ₁₁ L ₁ Y X ₂₀ X ₇ L ₂ INCHES FEET FEET </td <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>H W X_H Li Y X₅₀ X₇₁ Li INCHES FEET FEET</td>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	H W X _H Li Y X ₅₀ X ₇₁ Li INCHES FEET
H W X _w K ₄ L INCHES <i>PLET PLET PLET PLET</i> 3 3 357 1.92 9.49 4 4.76 2.56 12.33 5 3 5.95 3.21 133.6 6 6 7.14 335 14.9	H W X ₁₀ X ₁ L ₁ Y X ₂₁ Z ₂ L ₂ INC4ES FEET FEET <td>H W X₁₀ X₁ L Y X₁₀ X₇ L INCNES FEET FEET FEET FEET INCNES FEET FEET</td> <td>H W Xu Xu<td>H W X_{II} Lt Y X_{IU} X_{II} Lt INCHES FEET FEET</td></td>	H W X ₁₀ X ₁ L Y X ₁₀ X ₇ L INCNES FEET FEET FEET FEET INCNES FEET FEET	H W Xu Xu <td>H W X_{II} Lt Y X_{IU} X_{II} Lt INCHES FEET FEET</td>	H W X _{II} Lt Y X _{IU} X _{II} Lt INCHES FEET
H W Xu. Ya. Lt. INCHES PECT PECT PECT PECT 3 3 357 1.92 9.49 4 4.76 2.56 1.33 5 5.95 3.21 13.36 6 6 7.14 3.35 1432 7 7.833 4.47 15.82	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	H W X ₁₀ X ₁₁ T X ₁₀ X ₁₀ X ₁₀ K ₁₀ INCHSS FEET FEE
H W X _w K ₄ L INCHES <i>PLET PLET PLET PLET</i> 3 3 357 1.92 9.49 4 4.76 2.56 12.33 5 3 5.95 3.21 133.6 6 6 7.14 335 14.9	H W X ₂₀ A ₁₁ U Y X ₂₁ Z ₂ L ₁ INCless FEET FEET <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>H W Xu Xu Li Y Xu Xu Xu Yu Xu Xu Xu Yu Yu Xu Yu Xu Yu Yu<td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	H W Xu Xu Li Y Xu Xu Xu Yu Xu Xu Xu Yu Yu Xu Yu Xu Yu Yu <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
H W Xu. Xi. Lt. NGCHS FECT FECT FECT FECT 3 3 3.57 1.92 9.49 4 4.76 2.56 11.33 5 3 5.55 3.21. 13.46 6 6 7.14 3.35 14.99 7 7 8.33 4.49 16.82 8 9.52 5.13 1860 9 9 10.71 5.77 20.48	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
H W Xu. Ya. Lt. INCHES PECT PECT PECT PECT 3 3 357 1.92 9.49 4 4 4.76 2.56 1.133 5 3 5.95 3.21 13.16 6 6 7.14 3.35 1.439 7 7 8.33 4.439 1.622 8 A 9.52 5.13 18.605 9 9 10.71 5.77 20.48 4.00 % GUTTER UNE PROFILE 4.00 X.00	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
H W Xu. Xi. Lt. NGCHS FECT FECT FECT FECT 3 3 3.57 1.92 9.49 4 4.76 2.56 11.33 5 3 5.55 3.21. 13.46 6 6 7.14 3.35 14.99 7 7 8.33 4.49 16.82 8 9.52 5.13 1860 9 9 10.71 5.77 20.48	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
H W Xu Xi Li. INCHES PECT PECT PECT PECT 3 3 3.57 1.02 9.49 4 4.76 2.56 11.33 5 3 5.55 3.24.1 13.36 6 6 7.14 3.35 1.499 7 7 3.33 4.49 16.82 8 .95.2 5.13 1.863 9 9 10.71 5.77 20.48 4.0 X: UTTER UNE PROFILE H H W Xu Xu Xu 1NG4IS FECT FECT FECT FET 3 3 3.7 1.73 4.95	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
H W Xu Xi Li INCHES PECT PECT PECT PECT 3 3 3.57 1.02 9.49 4 4.76 2.56 1.133 5 3 5.95 3.24.1 13.45 6 6 7.14 3.35 1.499 7 7 3.33 4.49 16.82 8 .95.2 5.13 1.863 9 9 1.071 5.77 20.48 H W Xu.u Xu. La H W Xu.u Xu. La H W Xu.u Xu. La HOCHES FECT FECT FECT FECT 3 4.27 1.77 4.95 4 5.56 2.28 11.30 5 5 5 6.22 1.132 1.32 1.32	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

6.0 % GUTTER LINE PROFILE											
н	W	X ^{to}	Xil	ų							
INCHES	FEET	FEET	FEET	FEET							
3	3	6.25	1.56	11.81							
4	4	8.33	1.08	14.42							
5	5	10.42	2.60	17.02							
6	6	12.50	3,13	19.63							
7	7	14.58	3.65	22.23							
8	8	15.00	4.17	23.17							
9	9	15.00	4.69	23.65							

CURB RAMP TYPE 2

 CURB RAMP I YPE 2

 0-8 5407181MF 80604

 W X0
 Li

 S 150
 LiO
 Colspan="2">Colspan="2"Colspan=

н	w	XIU	Хц	5
INCHES	FEET	FEET	FEET	FEET
3	3	8.33	1.47	13.80
4	4	11.11	1.96	17.07
5	5	13.89	2,45	20.34
6	6	15.00	2.94	21.94
7	.7	15.00	3.43	22.43
8	8	15.00	3.92	22.92
9	9	15.00	4.41	23.41

NOTES: 1 FOR CURB RAMP TYPES, SEE CD-608-1.

2. THE ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. 7%47 DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE THE ABOVE TABLES TO DE USED BY THE DEGINETRE AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF THE CURB RAMP AT EACH LOCATION. FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL MEASUREMENTS IN THE PELD DURING CONSTRUCTION.

3. THE 1914TH MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 1914TV SLOPE MEASURED AS X IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS.INSUME THE RUNNING SLOPE OF CURD RAMPS DOCE NOT RECOUNT IN COLCECT BY CLT. THE RUNNING SLOPE MAY EXCEED THE 1941V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXMUM LENGTH THE TABLES ALREADY APPLY THE 15 FEET RULE FOR THOSE CALCULATED LENGTHS WHICH EXCEED S FEET.

4 DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON GROSS SLOPES SHOWN.

CONCRETE SIDEWALK

(PUBLIC SIDEWALK CURB RAMP TABLES)

LEGEND

U = UPPER SIDE OF GUTTER LINE PROFILE

L = LOWER SIDE OF GUTTER LINE PROFILE

FOR THE OTHER ABBREVIATIONS - REFER TO CD-605-1

* TYPE 3 HAMP IS NOT APPLICABLE, USE TYPE 1-

** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2

						CD-606-3.1		
PREPARED BY:	WSP USA Inc. 2000 LENOX DRIVE, LAWRENCEVILLE, N.J. 08548	1191)		CADE MA	Y COUNTY	REHABILITATION OF	PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY	
				UAPE MA	I COUNT	96TH STREET (CR657) BRIDGE OVER GREAT	DRAWING TITLE:	SCALE: N.T.S.
				<u>BUARC</u> N	<i></i>	CHANNEL	CONSTRUCTION DETAILS	SHEET REFERENCE NO.: of
STEVEN	M. ARBIZ N.J. PE LICENSE NUMBER: 24GE03811900	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006		SHEET NO .: 024 of 202

CURB RAMP TYPE 4

0.0 %

4.0 % GUTTER LINE PROFILE

		R LINE PRO	JHILE					R LINE PRO	JFILE				20	% GUTTE	RUNEPR	JFILE			- 1
H	W	Y	X _{2U}	Xa	L FEET	Н	W	Y	X _{2U}	Xa	4		н	w	Y	X20	X	L.	ſ
INCHES	PEEI	INCHES	FEET	FEET		INCHES	FEET	INCHES	FEET	FEET	FEET		INCHES	FEET	INCHES	FEET	FEET	FEET	1
3			0.91	0.91	5.82	3			1.04	0.81	5.85		3			1.20	C.73	5.93	
4			1.91	1.91		4			2.1?	1.71	7.88		4			2.52	1.51	8.06	- 1
The Real Property lies and		2.75	2.91	2 91	9.82	5			3.31	260	9.91		5			3.83	2.35	10.18	
- 6	2.75	1.13	3.91	3.91	11.82	- 6 7	2.75	2.75	4.45	1.49	11.94	1	6	2.75	2.75	5.15	3.16	12.30	- 1
8			5.91	5.91	13.63	8			5.58	4.39	13.97		7			5.47	3.96	14.43	- 1
9		1 1	6.91	6.91	15.83	- 8			6.72	5,28	1£.00		8			7.78	4.77	16.55	
3			4.91	0.91	17.83	3			0.82	0.64	18.03		9			9.10	5.59	18.67	-
4			-		Martin Martin								3			2,95	C.58		- I
			1.72	1.72	7,44	4			1%	1.54	7.49		4		1	2.27	1.39	7.65	_ I
5	4.0		2.72	2,72	9.44	5			3.09	2.43	9.52		5			1.50	2.20	9.7B	ļ
7	3.U	1.0	1/2	3.12	11,45	<u>b</u>	3.0	3.0	4.23	3.34	11.55		<u>b</u>	30	3.0	4.50	3.60	12.90	-
			4,72	4.72	13.45	7			5.37	4.22	13.58		7			6.22	3.81	14.02	- 1
8			5.72	5.72	15.45				6.50	5.11	15.61		8			7.53	4.62	16.15	1
			6.72	6./2	17.45				7.64	6.00	17,64		9			8.85	5.42	18.27	-
3						3			0.39	0.30	4.69		3			0.45	0.28	4.72	1
4			1.34	1.34	6.68	4			1.53	1.20	6.72		4			1.77	1.08	6.85	1
5			2.34	2.34	8.68	5			2.66	2.09	8.75		5			3.08	1.89	8.97	- L
6	3.5	3.5	3.31	3.34	10.69	6	3.5	3.5	3.80	2.08	10,78		6	3.5	3.5	4.40	2.70	11.09	- 1
7			4.34	4.34	12.69	7			4,94	3.88	12.81		7			5.72	3.50	13.22	- 1
8		1	5.34	5.34	14.69	- 0			6.07	4.77	14,84		8			7.03	4.31	15.34	1
			5.54	6.34	15.09				7.21	5.66	16.87		9			3.35	5.12	17.46	
						3													_ ļ
- 4									1.09	0.85	5.95		4			1.27	C.78	6.04	ļ
- 5			1.95	1.96	7.92				2.23	1.75	7.98		5			2.55	1.55	8.16	
	4.0	0	2.96	2.96	9.93	6	4.0	4.0	3.37	2.65	10.01		6	4.0	4.0	3.90	2.39	10 29	
more manage			3.96	3.96	11.93				4.50	3.54	12.04		7			5.22	3.20	12.41	- 1
			4.96	4,96	13.93				5.64	4,43	14.07		B			5.53	4.00	14.53	
9		L	5.96	5.96	15.93	9			6.78	5.32	16.10		9			7.85	4.81	16.66	ι

5.0 % GUTTER LINE PROFILE

		3.0	% GUTTE	R LINE PRO	SFILE		
X	5	н	w	Ŷ	_{نید} لا	Xat	4
FEET	FEET	INCHES	FEET	INCHES	FEET	FEET	FEET
C.73	5.53	3			1.42	C.67	6.09
1.51	8.06	4			2.99	1.41	8.39
2.35	10.18	5			4.55	2.1.4	10.69
3.16	12.30	6	2.75	2.75	6.11	2.88	12.99
3.96	14.43	7			7.68	3.61	15.29
4.77	16.55	8			.5.24	4.35	17.59
5,58	15.67	9			10.81	5.08	19.89
C.58	5.53	3			1.13	£53	5.66
1.39	7.65	4			2.69	1.27	7.96
2.20	9.7B	5			4.25	2.00	10.26
3.UC	12.90	b	3.0	5.0	5.82	L.14	12.55
3.81	14.02	7			7.38	3.47	14.85
4.62	16.15	8			8.91	1.21	17.15
5.42	18.27	9			10.51	4.94	19.45
0.28	4.72	3		0.53	0.25	4.78	
1.08	6.85	4			2.10	0.99	7.08
1.89	8.97	5			3.66	1.72	9.38
2.70	11.09	6	3.5	3.5	5.22	2,46	11.68
3.50	13.22	7			6.79	3.19	13.98
4.31	15.34	8			8.35	3.93	16.28
5.12	17.46	3			9.91	4.66	18.58
•.	.43	3			**	**	1.4
C.78	6.04	4			1.50	C.71	6.21
1.55	\$.16	5			3.07	1.44	8.51
2.39	10 29	6	4.0	4.0	4.63	2.18	10.81
3.20	12.41	7			6.19	Z.91	13.11
4.00	14.53	8			7.76	3.65	15.41
4.81	16.66	9			0.32	4.38	17.71

CURR

CUR	B R/	۱MP (TYPE	27					
0.0	% GUTTE	R LINE PRO	OFILE		4,0	%GUTTE	RUNEPR	DFILE	
н	W	X ₁₅₂	XiL	4	н	W	X ₁₀	X ₁₁	11
INCHES	FEET	FEET	FEET	FEET	INCHES	FEET	FLET	FEET	FEET
3		3.00	3.00	10.00	3		5.77	2.03	11.8
4		4 00	4.00	12.00	4		7.70	2,70	14.40
5	4' MIN.	500	5.00	14.00	5	4" MRA.	9.62	3.38	17.0
G	7 MAX.	600	6.00	16.00	É	7 MAX.	11.55	4.05	19.6
7	/ VMA.	700	7.00	18.01	7	1 10010.	13.47	4.73	22.2
8		800	\$.00	20.01	8		15.40	5.41	24.8
9		900	9.00	22.01	5	1	17.32	6.08	27,40
		R LINE PRO				% GUTTE	R LINE PR	OFILE	
н	w	Xuu	×ıı	4	H H	w	×u	XIL	11
INCHES	FEET	FEET	RET	FEET	INCHES	FEET	FEET	FEET	FEE
3		3.41	2.68	10.09	3		7.51	1.88	13.3
4		4.55	3.57	12.12	4		10.01	2.50	16.5
5	4' MIN.	5.63	4.47	14.15	5		12.51	3.13	19.5
6	7 MAX	6.82	5.36	16.18	6		15.00	3.75	22.7
7	7 (MAX.	7.95	6.25	18.21	7		15.00	4.38	23.3
8		9.10	7.15	20.24	8		15.00	5.00	24.0
9		10.23	8.04	22.27	9	l	15.00	5.63	24.5
		RUNEPRO				XGUTTE			
н	w	XIU	Xu	ւ	н	w	Xtu	X	u
INCHES	FEET	FLET	FEET	FEET	INCHES	FEET	FEET	FEET	FEET
3		395	2.42	10.37			10.73	1.74	15.4
4		5.27	3.23	12.49	4		14.31	2.33	23.63
5	\$'MIN.	658	4.03	14.62	<u> </u>	4'MIN	15.00	2.91	21.9
6	T MAX.	7.90	4.84	16,74	6	7 MAX	15.00	3.47	22.4
7	2	922	5.65	18,85	2	1.10000	15.00	4,07	23.0
8		10.33	6.45	20.99	8		15.00	4.65	23.6
ē		11.85	7.26	23.11	S		15.00	5.23	24.2
10	* CUTTE	R LINE PRO	YCH P		7.0	%GUTTE	O INC DP	1011	
н	W	Xat	Xii	L	н.	W	Xu	XL	1 11
INCHES	FEET	FLET	FEET	FEET	INCHES	FEET	FEET	FEET	FEET
3		4.69	2.21	10.90	3		15.00	1.63	20,6
4		625	2.94	13.20			15.00	2.17	21.1
- 5		782	3.68	15.49	5		15.00	2.72	21.7
6	4'MIN.	9.38	4.41	17.79	6	4' MIN,	15.00	3.25	22.26
7	7 MAX	10.94	5.15	20.09	7	7 MAX	15.00	381	22.3
8		12.51	5.85	22.39	8	1	15.00	4.35	23.3
9		14.07	6.62	24.69	9		15.00	4.89	23.8

6.0	6.0 % GUTTER UNE PROFILE							7.0 % GUTTER LINE PROFILE																				
н	w	Y	X _{TU}	Хд	4	1 1	н	w	Y	X _{2U}	×д	4																
INCHES	FEET	INCHES	FEET	FEET	FEET		INCHES	FEET	INCHES	FEET	FEET	FEET																
3			3.25	0.53	7.79		3			5.71	0.50	10.20																
4	1		6.54	1.11	11.95		4			11.97	1.04	17.01																
5			10.41	1.62	16.10		5			15.00	1.58	23.58																
6	2.75	2,75	13.00	2,27	20.26		6	2.75	2.75	15.00	2.13	21.12																
7			15.00	2.86	21.36		7			15.00	2.67	21.67																
8			15.00	3.44	22.44		8			15.00	3.21	22.21																
9			15.00	4.02	23.02		9			15.00	3.76	22.76																
3	1 · · ·		2.58	0.42	7.00		3			4.52	0.39	8.91																
4			6.16	1.00	11.16		4		1	10.78	D.94	15.72																
5			9.73	1.58	15.31		5			15.00	1.48	20.48																
6	3.0	3.0	13.31	2.16	13.47		6	3.0	3.0	15.00	2.02	21.02																
7			15.00	15.00 2.75 21.75 7			15,00	2.57	21.57																			
6			15.00	7.23	22.33		8			15.00	3.11	22.11																
9			15.00	3.91	22.91		9			15.00	3,65	22.65																
3			1.22	0.20	5.42		3			2.14	0.19	6.32																
4																			4.80	0.78	9.58		4			8.40	0.73	13.13
5			8.37	1.36	10.74		5			14.67	1.27	13.94																
6	3.5	3.5	11.55	1.94	17.89		6	3.5	3.5	15.00	1.82	20.82																
7			15.00	2.52	21.52		7			15.00	2.36	21,36																
8			15.00	3.11	22.11		8			15.00	2.90	21.90																
9			15.00	3.69	22.69		9			15.00	3.45	22.45																
3			**	**	.**		3			**	••	**																
4			3.44	0.36	8,00		4			6.03	0.52	10.55																
5			7.02	1.14	12,16		5			12.29	1.07	17.36																
6	4.0	4,0	10.59	1.72	16.31		6	4.0	4,0	15.00	1.61	20.61																
7			14.17	2.30	20.47		7			15.00	2.15	21.15																
8			15.00	2.89	21.89		8			15.00	2,70	21.70																
9			15.00	3,47	22.47		9			15.00	3.24	22,24																

CONCRETE SIDEWALK

(PUBLIC SIDEWALK CURB RAMP TABLES)

		R LINE PRO					5.0		R LINE PRO	DFILE		
H.	w	Ŷ	X _{2U}	Xa	L,	1	н	w	Y	Xzu	X _n	ų.
INCHES	FEET	INCHES	FEET	FEET	FEET		INCHES	FEET	INCHES	FEET	FEET	FEET
3			1.75	0.62	6.37	I	3			2.28	0.57	6.85
4		1	3.68	1.29	8.97	1	4			4,78	L 19	5.98
5			5.60	1.97	11.57	1	5			7.29	1.82	13,10
6	2.75	1.75	7.53	264	14.17		6	2.75	2.75	0.70	2.45	16.22
7			9.45	3.32	16.77		7			12.29	3.07	19.36
8			11.38	4.00	19.37	1	8			14.79	3.70	22.49
9			13.30	4.67	21.97		9			15,00	4,32	23.32
3			1.39	0.49	5.88		3			1.80	0.45	6.26
4			3.31	1.16	8.48		4			4.31	1.08	9.38
5			5.24	1.84	11.03		5			6.81	1.70	12.51
6	3.0	3.0	7.16	2.52	13.68		6	3.0	30	9.31	2.33	15.64
7			9.09	3 19	16.28		7			11.81	2,95	18.77
8			11.01	3.97	19 88	Į į	8			14.32	3.58	21,90
S			12.94	4,54	21,48	9			15.00	4.20	23.20	
3			0.66	0.23	4,89	[3	3.5	3.5	0.85	0.21	5.07
4			2.58	0.91	7,49		4			3.36	0.84	8.20
1			4.51	1.58	10.09		5			5.0G	1.46	11.32
6	3.5		6.43	2.26	12.69		6			8.36	2.09	14.45
)			8.36	2.93	15.29		7			10.86	2.71	17.58
8			10.28	3.61	17.89		8			13.37	3,34	20.71
ş			12.20	4,29	20.49		9			15.00	3.96	22.96
1			**		**	1	3			40		
4			1.85	0.65	5.50		4			2.41	0.60	7.01
5	4,0	4.0	3.78	1.33	9.10		5	4.0	4.0	4,91	1.25	10.14
6			5.70	2.00	11.70		6			7.41	1.45	13.26
7			7.62	2.68	14.30		7			9.91	2.48	16.39
8			9.55	3.35	16.90		8			12.42	3.10	19.52
9			11.47	4.03	19.50		9			14.92	3.73	22.65

3				••	1	1	3			**	••			3
4 5 6 7			2.41	0.60	7.01	1	4			3.44	0.36	\$.CO	זו	4
5			4.91	1.25	10.14]	5			7.02	1.14	12.16	1 [5
6	4.0	4.0	7.41	1.85	13.26	1	6	4.0	4,0	10.59	1.72	16.31	I [6
7			9.91	2.48	16.39	1	7			14.17	2.30	20.47	1 1	7
8			12.42	3.10	19.52	1	8			15.00	2.89	21.89	l ſ	8
9			14.92	3.73	22.65	1	9			15.00	3,47	22.47	ΙΓ	9
NOTES: 1 FOR CURB RAMP TYPES, SEE CD.606.1 2. THE ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. THEY DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE. THE ABOVE TABLES TO BE USED BY THE DESIGNERS AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF THE CURB RAMP AT EACH LOCATION, FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL														

THE ACTUAL MEASUREMENTS IN THE FIELD DURING CONSTRUCTION. 3. THE 224:TV MAX SLOPE IS THE PUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 124:1V SLOPE MEASURED AS X IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED IN 15 FET RUNNING SLOPE MAY EXCEED THE 121:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FET MAXIMUM LENGTH. THE TALES ALMEDAD YAPLY THE 15 FET RULE FOR THOSE CALCULATED

LENGTHS WHICH EXCEED 15 FEET. 4. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CLIRB HEIGHTS, WHERE THE CLIRP

HEIGHTS ARE OTHER THAN

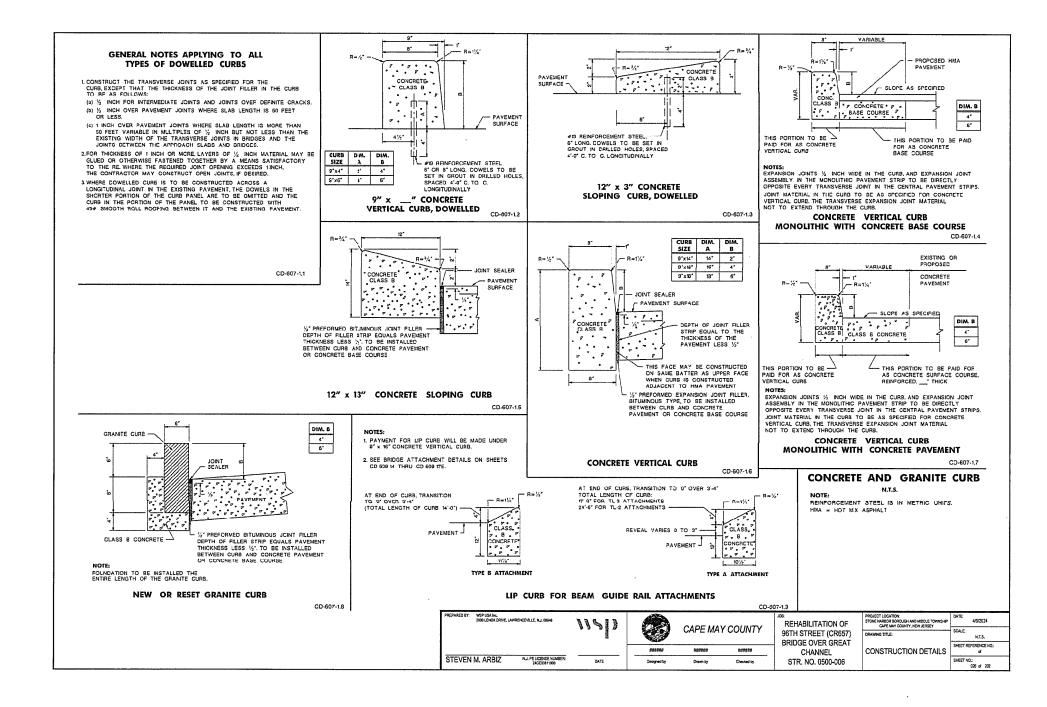
LEGEND

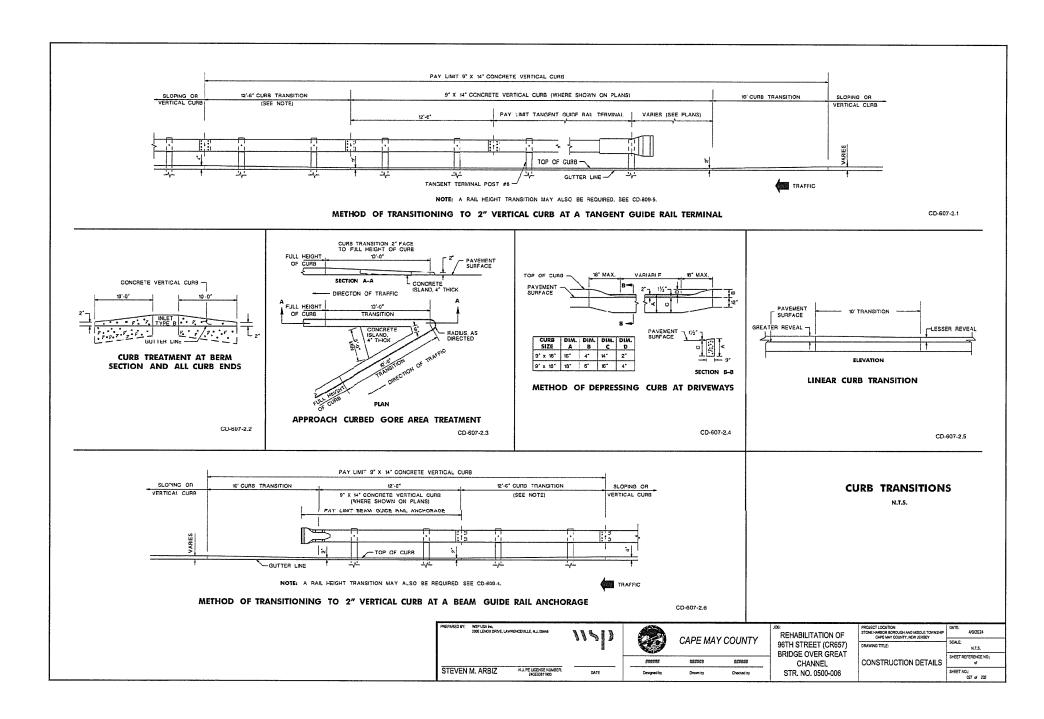
U = UPPER SIDE OF GUTTER LINE PROFILE

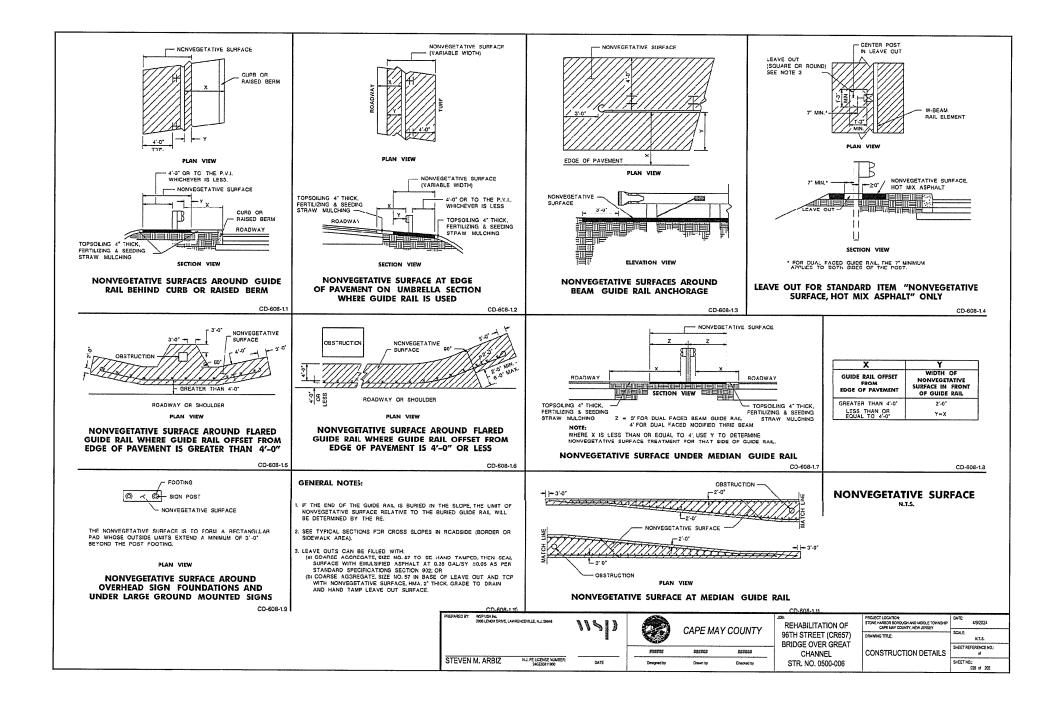
- L = LOWER SIDE OF GUTTER LINE PROFILE FOR THE OTHER ADDREVIATIONS REFER TO CO COS 1
- * TYPE 3 RAMP IS NOT APPLICABLE, USE TYPE 1
- ** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2

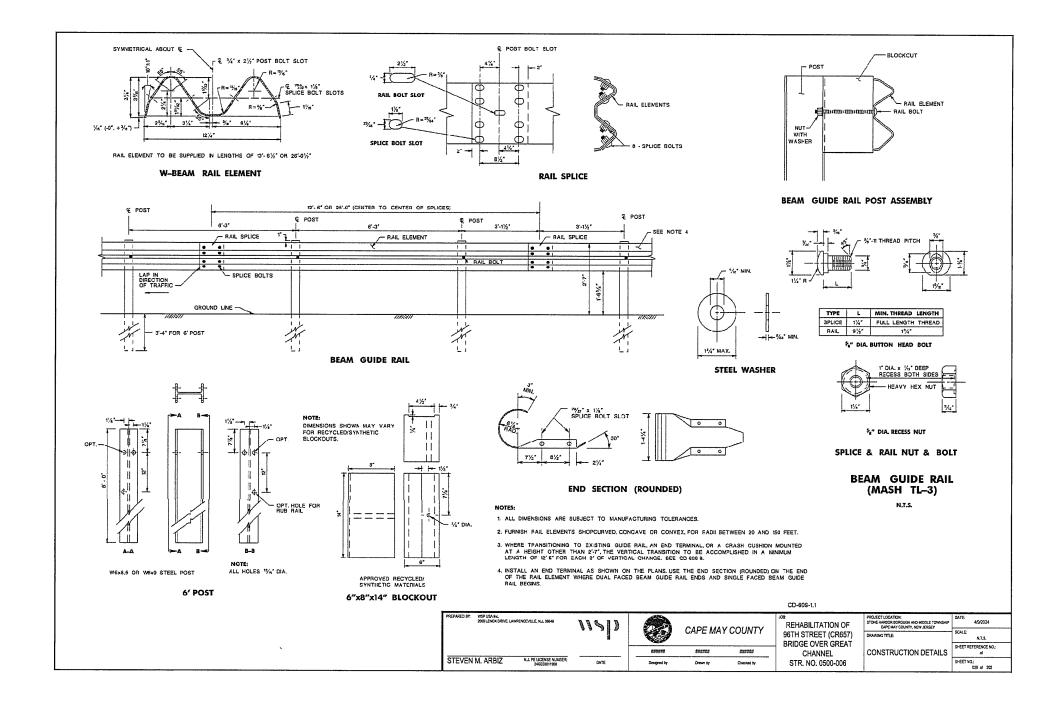
IS PROVIDED IN THE	TABLES, TH	E DIMENSIONS						CD-606-4.1			
	PREPARED BY:	WSP USA Inc. 2000 LENCX DRIVE, LAWRENCEVILLE, N.J. 08648		110)	8	CAPE MAY COUNTY		REHABILITATION OF	STONE HAREOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE: N.T.S.	
					######	4 <i>0346</i> 2	<i>40x400</i>		CONSTRUCTION DETAILS	SHEET REFERENCE NO.: of	
	STEVEN	M. ARBIZ	N.J. PE LICENSE NUMBER: 24GE03811900	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006		SHEET NO .: 025 of 202	

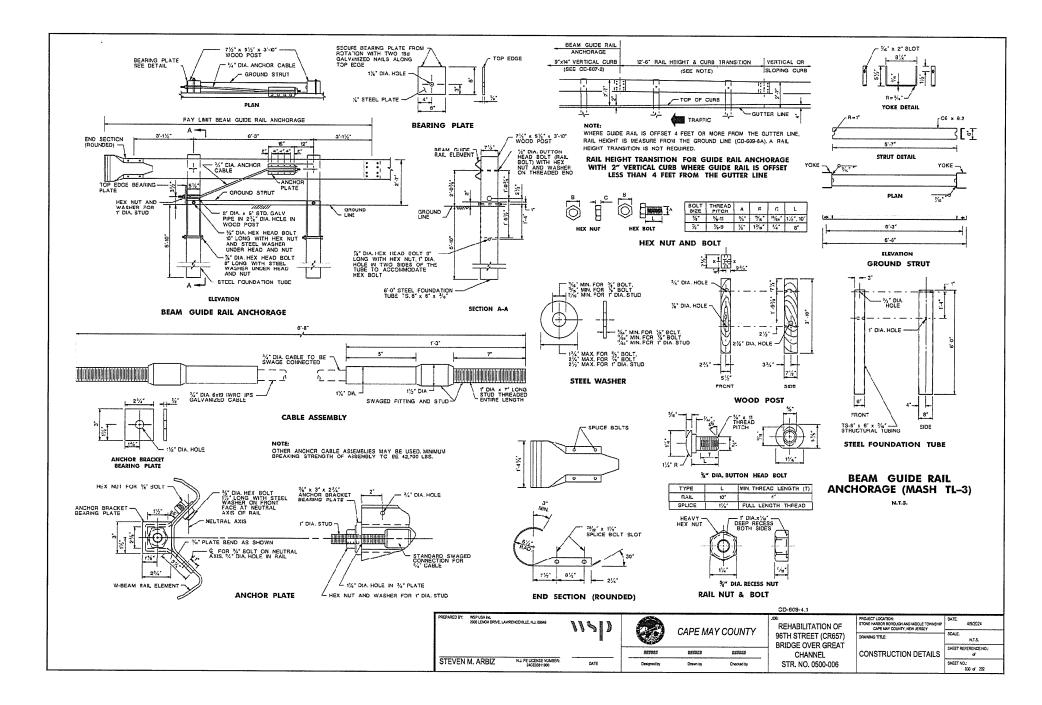
N.T.5.

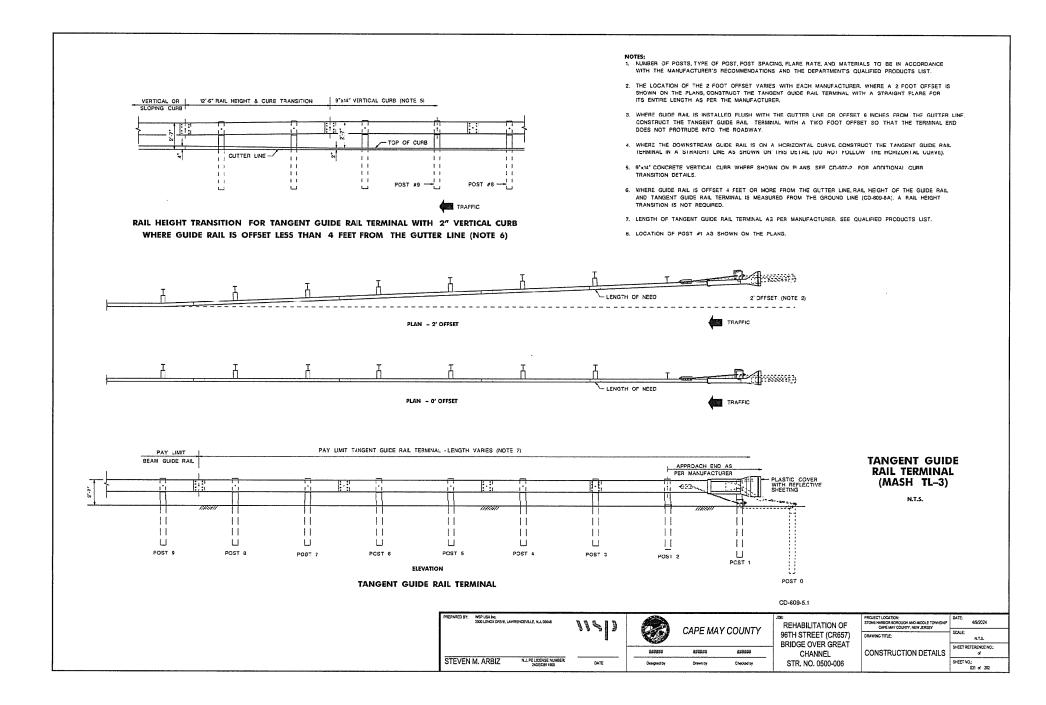


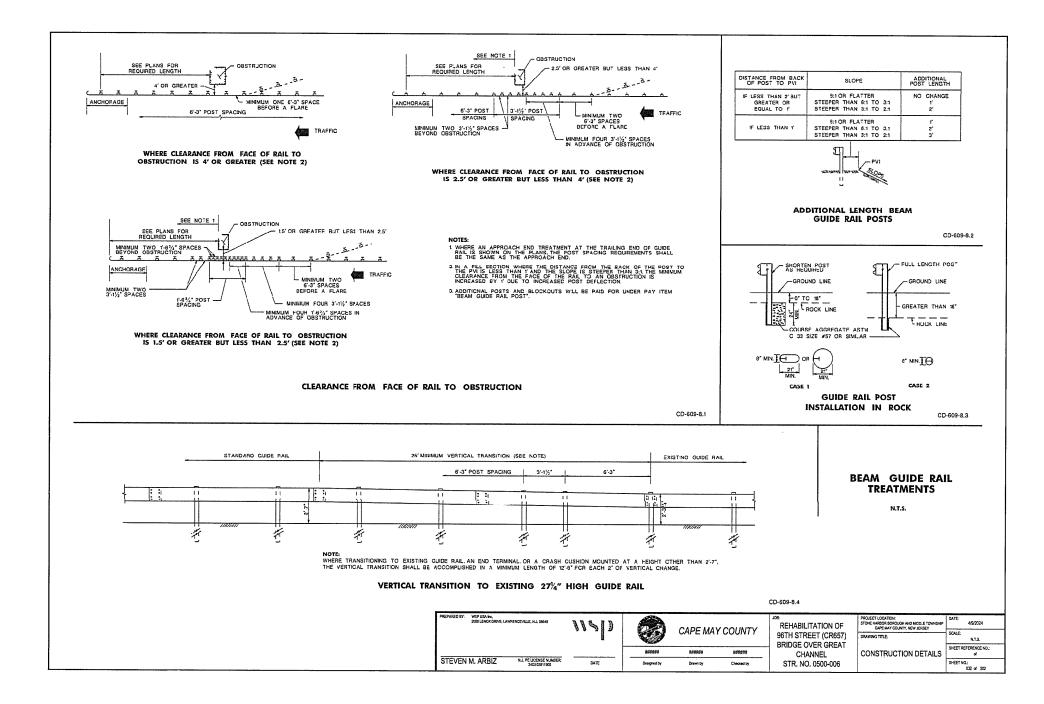


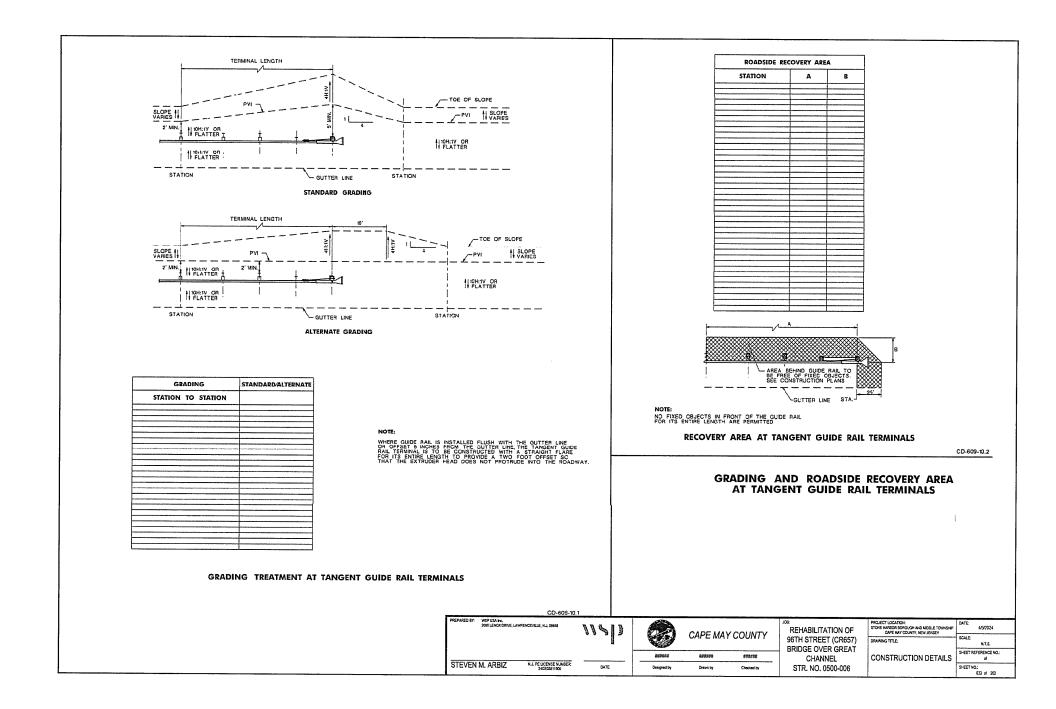


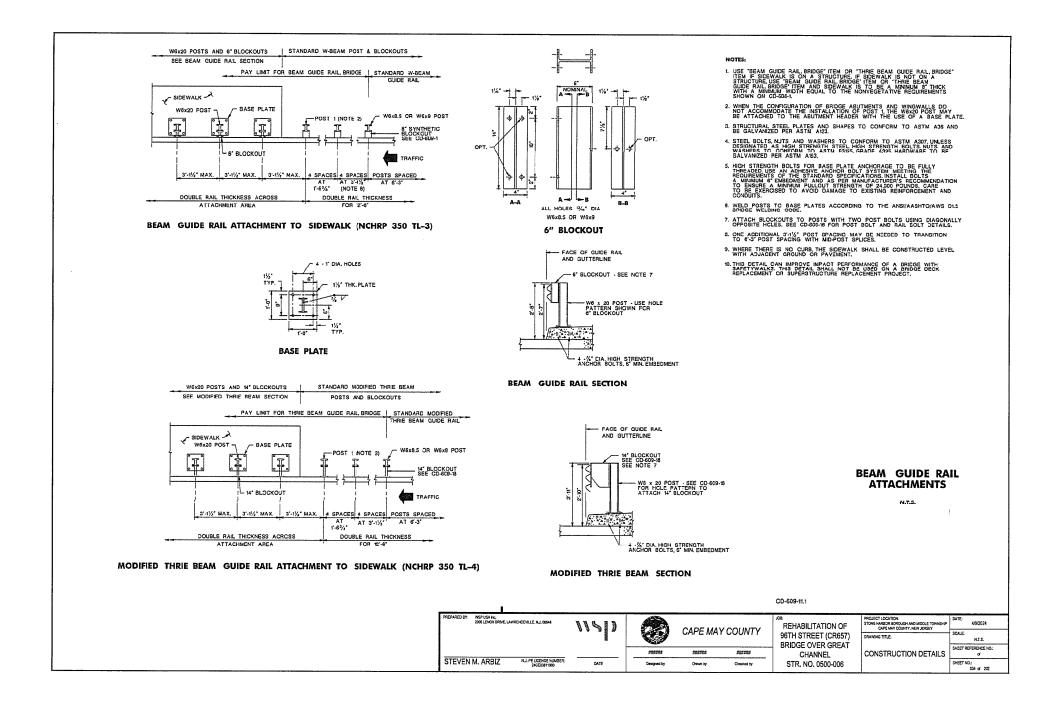


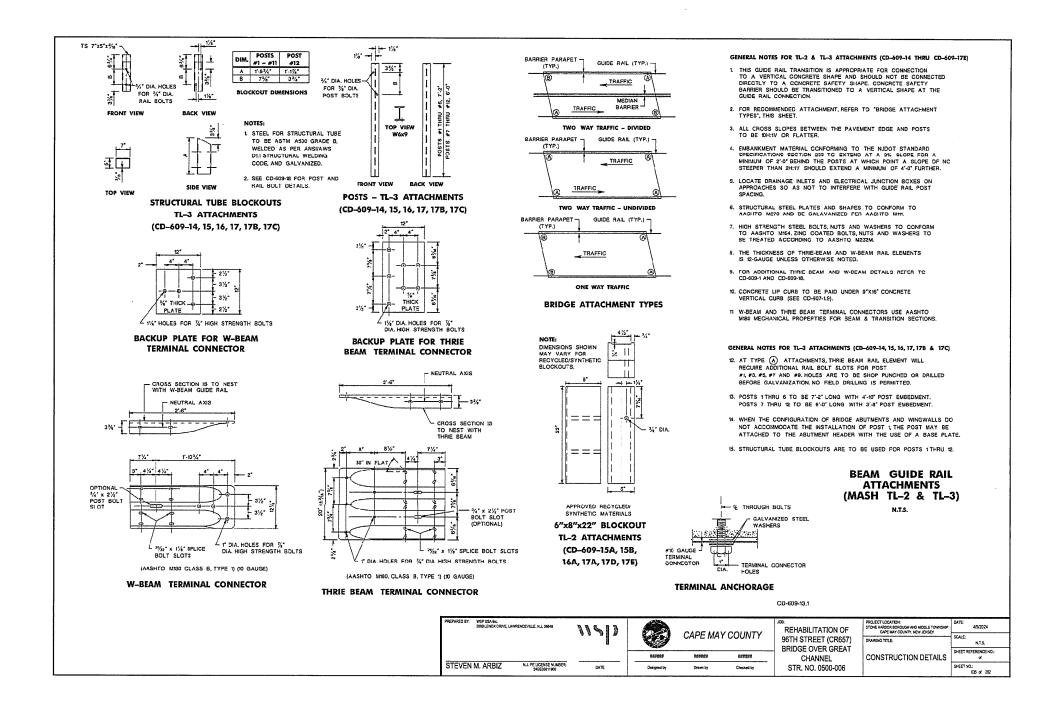


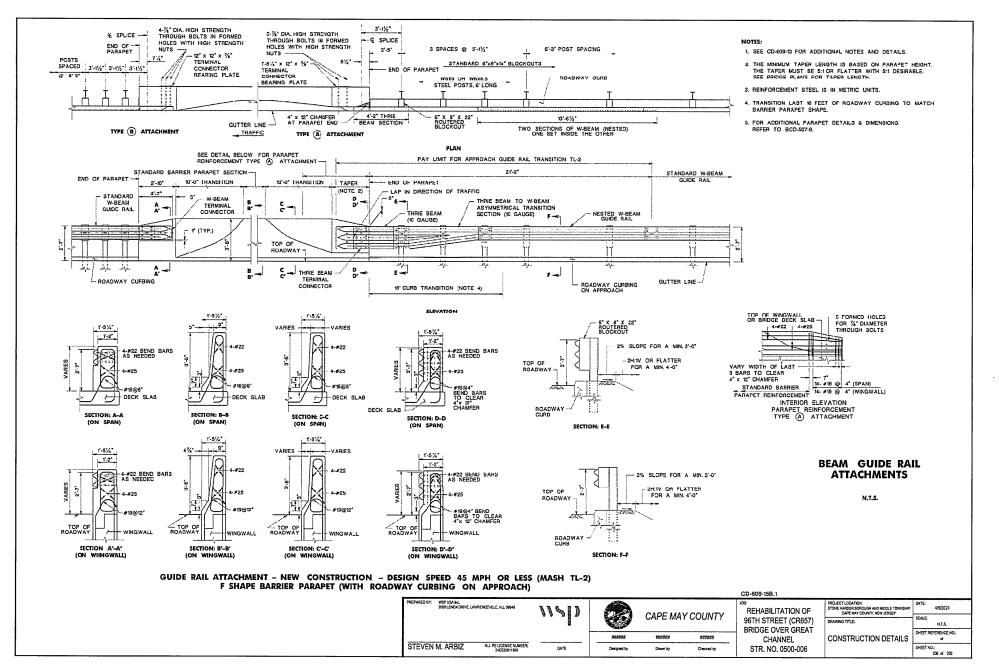




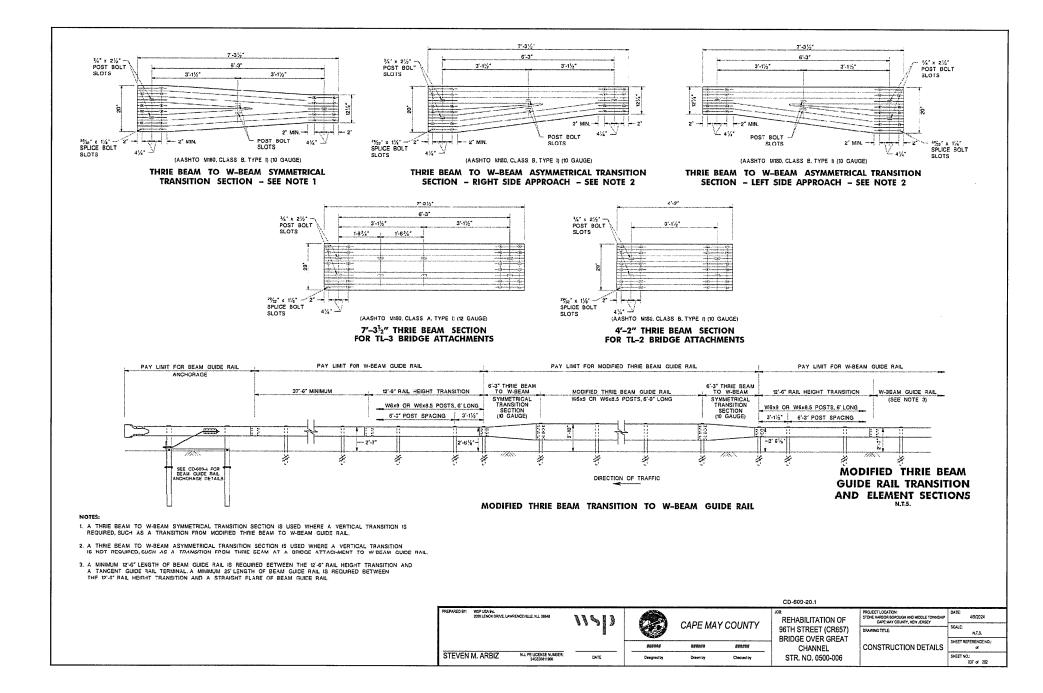


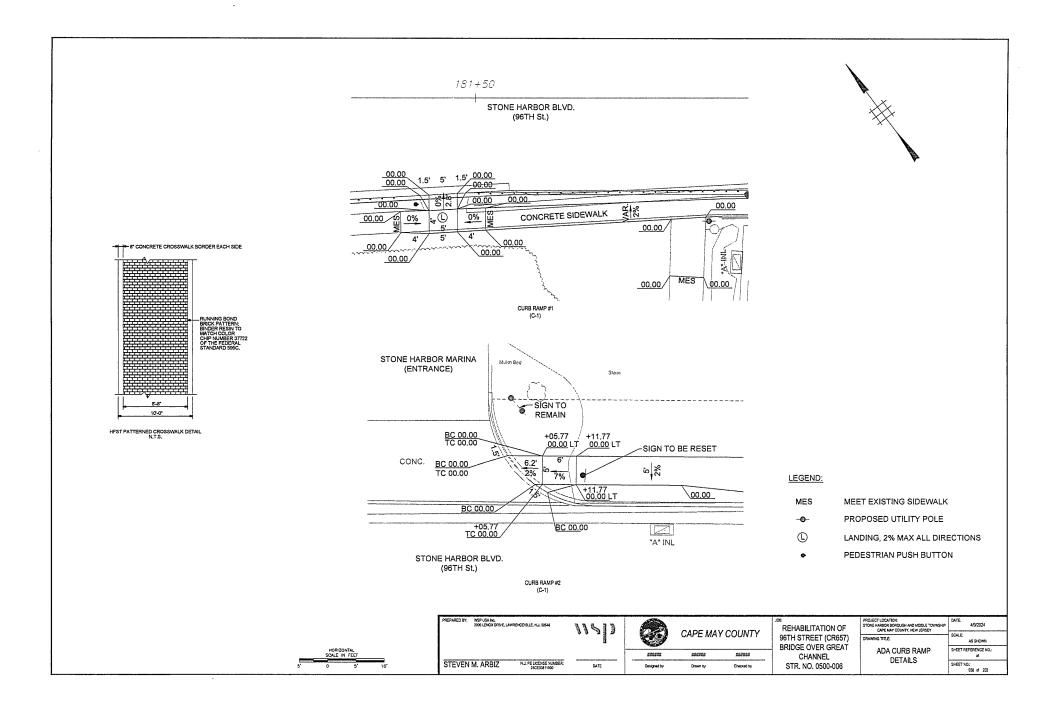


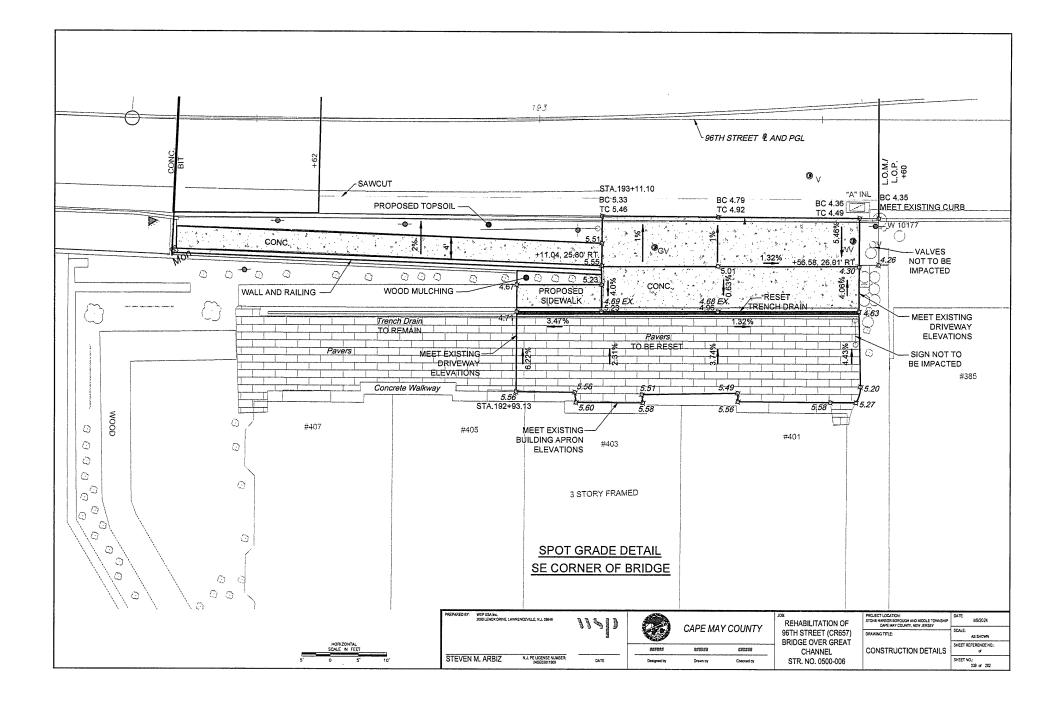


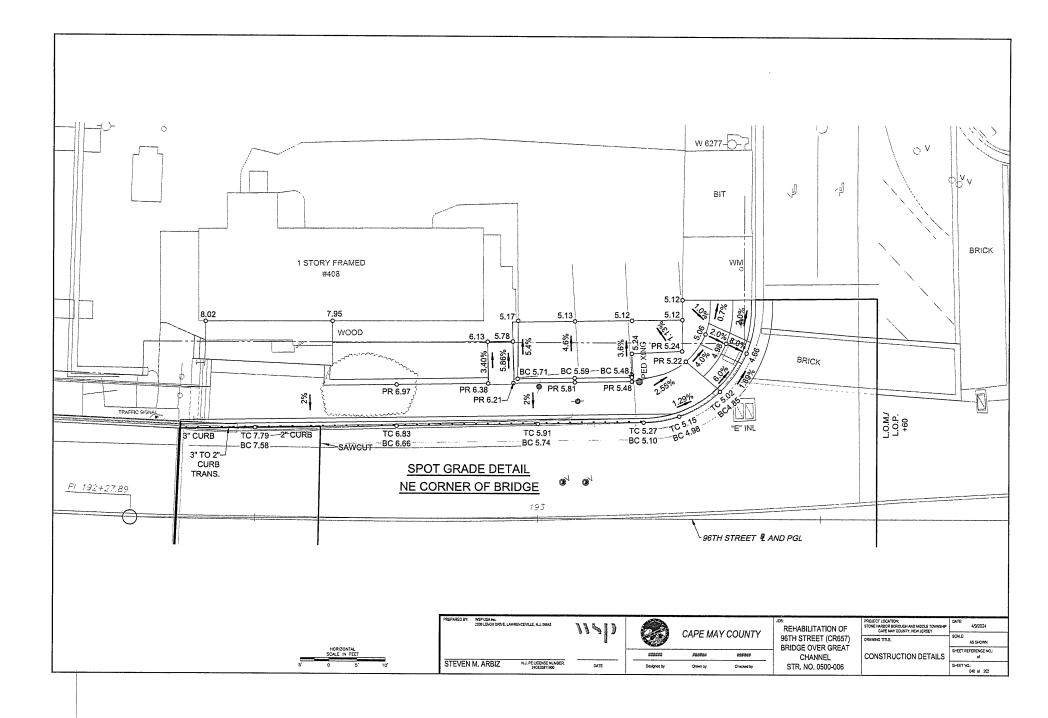


.









NO.	ITEM	DESCRIPTION	UNIT	CONTRACT	PLAN SHEET	IF AND WHERE	SEQ.	ITEM	DESCRIPTION	UNIT	CONTRACT		IF AND WHERE
	NO.			QUANTITY	TOTAL	DIRECTED	NO.	NO.			QUANTITY	TOTAL	DIRECTED
B-1 B-2		SUBMARINE CABLE LOCATION STEEL PRICE ADJUSTMENT	LS	LUMP SUM	LUMP SUM		B-73		SPAN BALANCE BLOCKS	UNIT	220	220	
8-2 8-3		VIBRATION MONITORING	LS	LUMP SUM	LUMP SUM		8-74 8-75		BASCULE SPAN JOINT ASSEMBLY	LF	110	110	
B-4		CLEARING SITE, BRIDGE (STR. NO. 0500-006)	LS	LUMP SUM	LUMP SUM		B-75 B-76		RELOCATE TEMPORARY STRUCTURE, TWO-WAY BIRD ENCLOSURE SYSTEM	UNIT	3	3	
		CLEARING SITE, STRUCTURE (SPAN 14)	LS	LUMP SUM	LUMP SUM	-	B-75		CLEARING SITE, STRUCTURE (FENDERS)	LS	LUMP SUM	LUMP SUM	
		CLEARING SITE, STRUCTURE (BASCULE SPAN SUBSTRUCTURE)	LS	LUMP SUM	LUMP SUM		B-78	6110101	TIDE CLEARANCE GAUGE	UNIT	LUMP SUM	LUMP SUM	
B-7		CLEARING SITE, STRUCTURE (BASCULE SPAN SUPERSTRUCTURE)	LS	LUMP SUM	LUMP SUM		B-79	5110104	MARITIME SIGN	UNIT	4	4	
8-8		ASBESTOS REMOVAL, BRIDGE NO. 0500-006	LS	LUMP SUM	LUMP SUM		B-80		ACCESS LADDER	UNIT	-		
		TEMPORARY SHIELDING (APPROX 2600 SY)	LS	LUMP SUM	LUMP SUM		B-81		POLYMER STRUCTURAL PILE (TYPE 1)	LF	1815	1815	
B-10		BATHYMETRIC SURVEY (PRE-CONSTRUCTION)	LS	LUMP SUM	LUMP SUM		B-82		POLYMER STRUCTURAL PILE (TYPE 2)	U	2111	2111	
8-11		BATHYMETRIC SURVEY (POST-CONSTRUCTION)	LS	LUMP SUM	LUMP SUM		B-83		POLYMER STRUCTURAL PILE DOLPHIN	LF LF	1210	1210	
8-12	202009P	EXCAVATION, UNCLASSIFIED	CY	190	190		B-84		POLYMER STRUCTURAL WALE	LF LF	2209	2209	
B-13	203009P	19 SOIL AGGREGATE	CY	250	250		B-85	-	POLYMER STRUCTURAL MAINTENANCE WALKWAY	SF	798	798	
B-14		PERMANENT SHEETING	SF	800	800		8-86		NAVIGATION LIGHTING SYSTEM (FENDER)	UNIT	4	4	
B-15		TEMPORARY COFFERDAM	LS	LUMP SUM	LUMP SUM		8-87		TRUNNION ASSEMBLIES	EACH	4	4	
B-16	502003P	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	LUMP SUM	LUMP SUM		8-88		SPAN DRIVE RACK AND PINION GEAR ASSEMBLIES	UNIT	4	4	
B-17	502173M	STEEL H-PILE, FURNISHED, HP 14 X 102	LF	100	100		B-89		SPAN DRIVE REDUCERS ASSEMBLIES	EACH	6	6	
8-18	502191M	STEEL H-PILE, DRIVEN, HP 14 X 102	LF	100	100		8-90		SPAN DRIVE PINNION BEARINGS	EACH	8	8	
B-19	502207M	PILE SHOE	UNIT	4	4		B-91	-	SPAN DRIVE SHAFTS, COUPLINGS, AND KEYS	UNIT	2	2	
8-20		FURNISHING DRILLED SHAFT EQUIPMENT	LS	LUMP SUM	LUMP SUM		B-92		SPAN DRIVE MACHINERY SUPPORTS	UNIT	2	2	
B-21		CROSSHOLE SONIC LOGGING	UNIT	8	8		8-93		SPAN DRIVE BRAKE SYSTEM	EACH	8	8	
B-22		SHAFT CORING	UF	128	128		B-94		SPAN LOCK ASSEMBLIES	EACH	2	2	
8-23		DRILLED SHAFT IN SOIL, 60" DIAMETER	LF	640	640		B-95		PREVENTIVE MAINTENANCE	LS	1	1	
B-24		OBSTRUCTION REMOVAL	UF	32	32		B-96		MOVABLE BRIDGE OPERATOR	LS	1	1	
		TOMOGRAPHY	UNIT	4	4		B-97		MOVABLE BRIDGE COORDINATOR	LS	1	1	
		REINFORCEMENT STEEL, EPOXY-COATED	LB	15000	15000		B-98		1" RIGID METALLIC CONDUIT, PVC COATED	LF	440	400	40
B-27		REINFORCEMENT STEEL, GALVANIZED	LB	202000	202000		8-99		1 1/2" RIGID METALLIC CONDUIT, PVC COATED	LF	275	250	25
B-28		CONCRETE FOOTING	CY	716	716		8-100	701016F	2" RIGID METALLIC CONDUIT, PVC COATED	LF	440	400	40
B-29		CONCRETE ABUTMENT WALL	CY	30	30		B-101		3* RIGID METALLIC CONDUIT, PVC COATED	LF.	660	600	60
B-30		CONCRETE PIER COLUMN AND CAP	CY	600	600 ·		B-102		1" FLEXBLE METALLIC CONDUIT	ĻF	165	150	15
B-31		EPOXY WATERPROOFING	SY	30	30		B-103		1 1/2" FLEXIBLE METALLIC CONDUIT	LF	165	150	15
B-32		PRESTRESSED CONCRETE BOX BEAM. (TYPE BII-36), 36" X 33"	LF	976	976		B-104		#12 COPPER CONDUCTOR	LF	38500	35000	3500
B-33		PRESTRESSED CONCRETE SLAB BEAM, (TYPE SI-36), 36" X 12"	LF	136	136		8-105		#10 COPPER CONDUCTOR	LF	12100	11000	1100
B-34		PRECAST CONCRETE SEAL SLAB	CY	190	190		B-106		#8 COPPER CONDUCTOR	٤F	550	500	50
B-35 B-36		STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM		B-107		#1 COPPER CONDUCTOR	LF	330	300	30
8-36 8-37		STRUCTURAL STEEL BASCULE SPAN	LS	LUMP SUM	LUMP SUM		8-108		#1/0 COPPER CONDUCTOR	UF	660	600	60
B-37 B-38		REINFORCED ELASTOMERIC BEARING ASSEMBLY, TYPE I REINFORCED ELASTOMERIC BEARING ASSEMBLY, TYPE II	UNIT	56	50		8-109		250 KCMIL COPPER CONDUCTOR	ۍ ا	220	200	20
B-39		SHEAR CONNECTOR	UNIT	1152	1152				#500 KCMIL RHW AWG COPPER CONDUCTOR 10" X 36" JUNCTION BOXES	UF	1650	1500	150
8-40		GRDER JACKING	LS	LUMP SUM	LUMP SUM		B-111 B-112			UNIT	15	15	
8-41		STRIP SEAL EXPANSION JOINT ASSEMBLY					B-112 B-113		LIGHTING STANDARD ALUMINUM LUMINAIRE		3	3	
8-42		CONCRETE BRIDGE DECK, HPC	LF	282	282		B-113 B-114		VECTOR DUTY MOTOR	UNIT	8	8	
8-43		CONCRETE BRIDGE SIDEWALK, HPC	CY	10	10		B-114 B-115		FLUX VECTOR DRIVE AND CABINET			•	
B-44	507039P	CONCRETE BRIDGE PARAPET, HPC	LF	446	446		B-116		DYNAMIC BRAKING RESISTOR BANK	UNIT	4		
8-45	507051P	CONCRETE BRIDGE APPROACH	CY	90	90		B-117		SURGE SUPPRESSOR CABINET	U U			
B-46	507084P	STEEL 3 BAR BRIDGE RAILING	LF	214	214		B-118		#2 CONDUCTOR SHIELDED VFD CABLE	LF	600	800	
B-47	507123P	CONCRETE BRIDGE DECK, UHPC	CY	21	21		B-119		PROGRAMMABLE LOGIC CONTROLLER SYSTEM	LS	LUMP SUM	LUMP SUM	
8-48		TEMPORARY STRUCTURE, TWO-WAY	LS	LUMP SUM	LUMP SUM		B-120		CONTROL DESK	LS	LUMP SUM	LUMP SUM	
8-49	514021P	CONSTRUCTION ACCESS	LS	LUMP SUM	LUMP SUM		B-121		MOTOR CONTROL CENTER	LINIT	1	1	
B-50	515XXX	FRP SKID-PROOF PLATE	SF	6057	6057		B-122		WARNING GATE	UNIT		i	
8-51		FRP SIDEWALK	SF	1721	1721		8-123		STANDBY ENGINE GENERATOR	LS	LUMP SUM	LUMP SUM	
B-52		PRECAST EXODERMIC BRIDGE DECK SYSTEM (BASCULE SPAN)	SF	1590	1590		B-124		AUTOMATIC TRANSFER SWITCH	UNIT	1	1	
	516003P	PRECAST EXODERMIC BRIDGE DECK SYSTEM (SPAN OVER COUNTERWEIGHT)	SF	1502	1502		B-125		GROUNDING AND BONDING SYSTEM	LS	LUMP SUM	LUMP SUM	
B-54	518140P	SPAN LOCK PLATFORM	LS	LUMP SUM	LUMP SUM		B-126		TESTING, FINAL ACCEPTANCE	LS	LUMP SUM	LUMP SUM	
		CONCRETE DECK REPAIR, TYPE B	SF	150	0	150	B-127	750064P	TESTING FACTORY INSPECTION AND TESTING	LS	LUMP SUM	LUMP SUM	
		CONCRETE DECK REPAIR, TYPE C	SF	120	0	120	B-128	750064P	TESTING MANUFACTURER'S FIELD START-UP AND TESTING	LS	LUMP SUM	LUMP SUM	
		CONCRETE DECK REPAIR, TYPE D	ŞF	90	0	90	B-129		TRAINING (OPERATOR)	LS	LUMP SUM	LUMP SUM	
		PRESSURE INJECTION, CONCRETE CRACKS	LF	140	140		B-130		TRAINING (SERVICE PERSONNEL/ENGINEER)	LS	LUMP SUM	LUMP SUM	
8-59		SUBSTRUCTURE CONCRETE REPAIR (TYPE D)	SF	210	210		B-131	752003P	CONTROL HOUSE (Lighting & Receptacles)	LS	LUMP SUM	LUMP SUM	
		SUBSTRUCTURE CONCRETE REPAIR (TYPE E)	SF	30	30		B-132	750050P	ELECTRICAL WORK, CCTV SYSTEM	LS	LUMP SUM	LUMP SUM	
B-81		SUBSTRUCTURE CONCRETE REPAIR (TYPE F)	SF	20	0	20	B-133	750050P	ELECTRICAL WORK, PUBLIC ADDRESS SYSTEM	LS	LUMP SUM	LUMP SUM	
B-62		CONCRETE ARMOR UNITS	SY	120	120		B-134		FIRE DETECTION AND FIRE ALARM SYSTEM	LS	LUMP SUM	LUMP SUM	
8-63		COARSE AGGREGATE, SIZE NO, 57	SY	180	180		B-135		ELECTRICAL WORK, SUBMARINE CABLE	LS	LUMP SUM	LUMP SUM	
B-64		HANDRAIL (APPROACH SPANS)	LF	1679	1679		B-136	750050P	ELECTRICAL WORK, SUBMARINE CABLE CABINET	LS	LUMP SUM	LUMP SUM	
B-65		HANDRAIL (PARAPET MOUNTED)	LF	1569	1569		B-137		ELECTRICAL WORK TEMPORARY CONTROLS	LS	LUMP SUM	LUMP SUM	
B-66		HANDRAIL (BASCULE SPAN)	LF	252	252		B-138		ELECTRICAL WORK INSTRUMENTATION	LS	LUMP SUM	LUMP SUM	
3-87		SPECIALIZED SIGN	UNIT	2	2		8-139		DEMOLITION AND REMOVAL	LS	LUMP SUM	LUMP SUM	
B-68		CONSTRUCTION WEBCAM	LS	LUMP SUM	LUMP SUM		B-140	772001P		LS	LUMP SUM	LUMP SUM	
8-69 8-70		CONTROL HOUSE SPAN BALANCE TESTING	LS	LUMP SUM	LUMP SUM		B-141	1	NAVIGATIONAL AIDS	LS	LUMP SUM	LUMP SUM	
B-70 B-71			LS	LUMP SUM	LUMP SUM		8-142	I	SPARE PARTS	LS	LUMP SUM	LUMP SUM]
B-71 B-72		SPAN BALANCE CONCRETE FILL SPAN BALANCE STEEL BALLAST	CY LB	80 21400	80 21400								
					PREPARE	D BY: WSP USA Inc. 2000 LENOX DRA	648) 7	191	CAPE MAY COUNTY	REHABILITATION OF 96TH STREET (CR657)	DRAWING TITLE:	ON: OROUGH AND MIDLE T Y COUNTY, NEW JERSEY	DATE: 49/2 SCALE: AS SH
					1					BRIDGE OVER GREAT		STIMATE -	SHEET REFEREN
					I				####### KYLE G #######	CHANNEL	DISTR	RIBUTION OF	d
					1 1 1 1 1	C C FODOCIT	E NUMBER:						
					MAR	C S. ESPOSIT	15300	DATE	Designed by Drawn by Checked by	STR. NO. 0500-006	1 01	JANTITIES	SHEET NO .: D41 of

ABBRE\	/IATIONS				And a survey and a survey of a				
ABD	ABANDONED	EL	ELEVATION	L.O.W.	LIMIT OF WORK	PCI	PRESTRESSED CONCRETE INSTITUTE	TBR	TO BE REMOVED
ABUT.	ABUTMENT	(E) EQ	EPOXY COATED REINFORCEMENT	LIN	LINEAR	PSU	PREFABRICATED SUPERSTRUCTURE UNIT	T&G	TONGUE AND GROOVE
ACCEL.	ACCELERATION	EQ	EQUALLY	LF	LINEAR FOOT	PS	PRESTRESSED	т	TOP
AH.	AHEAD	EST	ESTIMATED	LL LG	LIVE LOAD	PGL	PROFILE GRADE LINE	τ/	TOP OF
ALIGN.	ALIGNMENT	EXC	EXCAVATION	LG	LONG	PL	PROFILE LINE	T&B	TOP AND BOTTOM
ALT	ALTERNATE	EXIST, or EX	EXISTING	LONGIT	LONGITUDINAL	P	PROPERTY LINE	тс	TOP OF CURB
ALT W/	ALTERNATE WITH	EXO	EXDERMIC	LP	LOW POINT	PROP.	PROPOSED	TOPO	TOPOGRAPHY
APPR	APPROACH	EXP or E	EXPANSION	LS	LUMP SUM			TWP	TOWNSHIP
APPROX	APPROXIMATE, APPROXIMATELY	EXT	EXTERIOR, EXTERNAL, EXTENSION			QTY	QUANTITY	TRK	TRACK
ACBM	ARTICULATED CONCRETE BLOCK MATTRESS			MB	MAILBOX			TRANSV	TRANSVERSE
AB	AS-BUILT	FASC	FASCIA	M/B	MEDIAN BARRIER	R	RADIUS	TYP	TYPICAL
@ AUX	AT	FPS	FEET PER SECOND	MH	MANHOLE	RR	RAILROAD		
AUX	AUXILIARY	FT or '	FEET, FOOT	MATL	MATERIAL	RF	REAR FACE	UHPC	ULTRA HIGH PERFORMANCE
AVE	AVENUE	FOC	FIBER OPTIC CABLE	MAX.	MAXIMUM	REF	REFERENCE		CONCRETE
вк	BACK	FS FIN.	FIELD SPLICE	MHW	MEAN HIGH WATER	RC	REINFORCED CONCRETE	UNDERCLR	UNDER CLEARANCE
B/C	BARRIER CURB	FIN. FIX. or F	FINISH, FINISHED	MLW MSE	MEAN LOW WATER	RCCP	REINFORCED CONCRETE CULVERT PIPE	UD	UNDER DRAIN
BIC	BARRIER CORB	FIX. or F	FIXED	MSE DU E	MECHANICALLY STABILIZED EARTH	RCFES	REINFORCED CONCRETE FLARED END SECTION	UON	UNLESS OTHERWISE NOTED
BRGS	BEARINGS	FTG	FLOOR BEAM FOOTING	MCR-PILE MP	MICRO-PILE MILE POST	RCP RSS	REINFORCED CONCRETE PIPE	UTIL UP	UTILITY
BB	BOX BEAM	FM	FORCE MAIN	MI	MILE POST	REINF	REINFORCED SOIL SLOPE	UP	UTILITY POLE
BG	BASCULE GIRDER	FDN	FOUNDATION	MIN	MINIMUM	REL	REINFORCED, REINFORCEMENT	VMS	
BP	BASCULE PIER	FF	FRONT FACE	MVC	MINIMUM VERTICAL CLEARANCE	REQ'D	RELOCATED	VAR	VARIABLE MESSAGE SIGN
BEGIN.	BEGINNING	FRP		MISC		RE	REQUIRED		VARIES, VARIABLE
BM	BENCH MARK	FRPP	FIBER REINFORCED POLYMER FIBER REINFORCED POLYMER PIPE PILE	MON	MISCELLANEOUS MONUMENT	RET	RESIDENT ENGINEER	VEL VERT	VELOCITY
BETW	BETWEEN	FRPL	FIBER REINFORCED POLYMER PIPE PILE	MUP	MULTI-USE PATH	RW	RETAINING	VERI	
BIT.	BITUMINOUS	FRSL	FIBER REINFORCED FOLTMER PLASTIC LUMBER	MOF	MOLIFUSE PAIR	REV	RETAINING WALL	v	VERTICAL CURVE
BORO	BOROUGH		I BERTIER ONOED OTTOOTONAL LOWBER	NEC	NATIONAL ELECTRIC CODE	RT	REVISION	•	VOLI
BOT or B	BOTTOM	GALV	GALVANIZED	NAV	NAVIGATION	R.O.W.	RIGHT	WG	WARNING GATE
BLVD	BOULEVARD	GI	GALVANIZED IRON	NF	NEAR FACE	RMC	RIGHT OF WAY	WTR	WATER
BLDG	BUILDING	GWI	GALVANIZED WROUGHT IRON	NWS	NORMAL WATER SOURCE	RNMC	RIGID METALLIC CONDUIT	WM	WATER METER
			GAUGE	N	NORTH	RD	RIGID NON-METALLIC CONDUIT ROAD	WSE	WATER SURFACE ELEVATION
CI	CASTIRON	GG	GEOGRID	NB	NORTHBOUND	RDWY	ROADWAY	WS	WEARING SURFACE
CIP	CAST IRON PIPE	GA GG GM	GEOMEMBRANE	NE	NORTHEAST	RT	ROADWAT	wr	WEIGHT
C-I-P	CAST-IN-PLACE	GCL GS GT GR	GEOSYNTHETIC CLAY LINER	NNA/	NORTHWEST		NOVIE	WWF	WELDED WIRE FABRIC
CAT.	CATENARY	GS	GEOSYNTHETICS	N/A	NOT APPLICABLE	SAN	SANITARY	WWM	WELDED WIRE MESH
CP	CATHODIC PROTECTION	GT	GEOTEXTILE	N/A N-I-C NTS	NOT IN CONTRACT	SECT	SECTION	w	WEST
CTR	CENTER	GR	GRATE	NTS	NOT TO SCALE	SGMTL	SEGMENTAL	WB	WESTBOUND
କୁ CG	CENTER LINE	GND	GROUND	NO.	NUMBER	SPC	SEISMIC PERFORMANCE CATEGORY	ww	WING WALL
CG	CENTER OF GRAVITY	G/L	GROUND LINE	NOS	NUMBERS	SCPTu	SEISMIC PIEZOCONE PENETRATION TEST	W/	WITH
C/C or C TO C		GOW	GROUNDWATER OBSERVATION OR MONITORING WELL	NSTM	NON-REDUNDANT STEEL TENSION MEMBER	SCC	SELF-CONSOLIDATING CONCRETE	WP	WORKING POINT
CLF	CHAIN-LINK FENCE	GWT	GROUNDWATER TABLE		(PREVIOUSLY FCM)	SH	SHEET	w	WROUGHT IRON
CHK	CHECKED	G/R	GUIDE RAIL			SHT PILE	SHEET PILE		
CKT	CIRCUIT			OPP	OPPOSITE	SHTG	SHEETING	YD	YARDS
CLR	CLEAR, CLEARANCE	HW	HEAD WALL	OPT.	OPTIONAL	SHLD	SHOULDER	YR	YEAR
CCTV	CLOSED CIRCUIT TELEVISION	HT	HEIGHT	oz	OUNCE	SDWK	SIDEWALK		
COL	COLUMN	HEX	HEXAGONAL	0 TO 0	OUT TO OUT	S SB	SOUTH		
CONC	CONCRETE	HD	HIGH DENSITY, HEAVY DUTY, HEAD	ocs	OUTLET CONTROL STRUCTURE	SB	SOUTHBOUND		
CONNE	CONNECTION PLATE	HDP HPC	HIGH DENSITY POLYETHYLENE	OD	OUTSIDE DIAMETER	SE	SOUTHEAST		
CONSTR	CONSTRUCTION	HPC	HIGH PERFORMANCE CONCRETE	O/L	OVERLAY	SW	SOUTHWEST		
CONT	CONTINUOUS, CONTINUED		HIGH PERFORMANCE STEEL			SPA. @	SPACED AT, SPACING AT		
CONTR	CONTRACTION	HP HPS	HIGH POINT	PK	PARKER KAYLON MASONRY NAIL	SPA.	SPACED, SPACING		
CORR CAACP	CORROSION		HIGH PRESSURE SODIUM	PA	PASCALS	SPEC	SPECIFICATION		
CAAUP	CORRUGATED ALUMINUM ALLOY CULVERT PIPE	HS HSS	HIGH STRENGTH	PAV'T PERF	PAVEMENT	sq	SQUARE		
CMP	CORRUGATED ALUMINUM ALLOY UNDERDRAIN PIPE		HIGH STRENGTH STEEL, HOLLOW STRUCTURAL SECTION		PERFORATED	SF SI	SQUARE FOOT		
CMUP	CORRUGATED METAL PIPE	HWY HORIZ	HIGHWAY	PETRO	PETROLEUM	SI	SQUARE INCH		
CSCP	CORRUGATED METAL UNDERDRAIN PIPE CORRUGATED STEEL CULVERT PIPE	HERCP	HORIZONTAL	CPTu PDA	PIEZOCONE PENETRATION TEST	SY SS	SQUARE YARD		
CSUP	CORRUGATED STEEL CULVERT PIPE	HMA	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PILE	PDA	PILE DRIVING ANALYZER		STAINLESS STEEL		
CR	CORRUGATED STEEL UNDERDRAIN PIPE COUNTY ROAD	HYD	HOT MIX ASPHALT	PT	PLATE	STD	STANDARD		
cov	COVER		HYDRANT	POP	POINT POINT OF RECINING	SPT STA	STANDARD PENETRATION TEST		
COVP	COVER COVER PLATE	IN, or "	INCH	POB PCC	POINT OF BEGINNING	SIA S-I-P	STATION		
X-SECT	CROSS SECTION	INCL		PC	POINT OF COMPOUND CURVE	S-I-P SP	STAY-IN-PLACE		
CF	CUBIC FEET	ID	INCLUDING INSIDE DIAMETER	POE	POINT OF CURVATURE POINT OF END	STIFF. P	STEEL PIPE		
CFS	CUBIC FEET PER SECOND	ITS	INSIDE DIAMETER	PI	POINT OF END POINT OF INTERSECTION	STIR.	STIFFENER PLATE		
CY or CU YD	CUBIC YARD	INT	INTERIOR	PI PT	POINT OF TANGENCY	SWM	STIRRUP		
CULV	CULVERT	INTERM	INTERMEDIATE	PVC	POINT OF VERTICAL CURVATURE	STY	STORM WATER MANAGEMENT		
		INV	INVERT	PVI	POINT OF VERTICAL INTERSECTION	ST	STORY		
DL	DEAD LOAD	IP	IRON PIN	PVRC	POINT OF VERTICAL REVERSE CURVATURE	STR	STREET		
DEG or *	DEGREE			PV/T	POINT OF VERTICAL TANGENCY	SOD	STRUCTURE		
DGA	DENSE GRADED AGGREGATE	т	JOINT	POC POL PRC	POINT ON CURVE	SUBSTR	SUBBASE OUTLET DRAIN		
DES	DESIGNED	JB	JUNCTION BOX	POL	POINT ON LINE	SUPERSTR	SUBSTRUCTURE		
DIAG	DIAGONAL	JBF	JUNCTION BOX FOUNDATION	PRC	POINT ON REVERSE CURVE		SUPERSTRUCTURE		
DIA or D	DIAMETER			POT	POINT ON TANGENT	\$_ SYM			
DIAPH	DIAPHRAGM	KM	KILOMETERS	PPC	POLYESTER POLYMER CONCRETE		SYMMETRY, SYMMETRICAL		
DIM.	DIMENSION	K-FT	KIP-FOOT	PVC	POLYVINYL CHLORIDE PIPE	TAN.	TANGENT		
DOLL.	DOLLAR	K	KIPS	LB or #	POUND, POUNDS	TEL	TELEPHONE		
DWG	DRAWING	KSF	KIPS PER SQUARE FOOT	PLF	POUNDS PER LINEAR FOOT	TEMP.	TEMPERATURE, TEMPORARY		
	DRAWN	KSI	KIPS PER SQUARE INCH	PSF	POUNDS PER SQUARE FOOT	т	TENSION		
DWN		LN		PSI	POUNDS PER SQUARE INCH	THK	THICK, THICKNESS		
DS	DRILLED SHAFT		LANE	PC	PRECAST	TBA	TO BE ABANDONED		
DS DWY	DRIVEWAY								
os owy ol	DRIVEWAY DUCTILE IRON	LMC	LATEX MODIFIED CONCRETE						
DS DWY DI DIP	DRIVEWAY DUCTILE IRON DUCTILE IRON PIPE		LATEX MODIFIED CONCRETE LEFT PREPARED BY: WSP U	iA Inc.			1 (B)	ROJECT LOCATION:	DATE:
DS DWY DI DIP	DRIVEWAY DUCTILE IRON	LMC LT L	LEFT PREPARED BY: WSP U LENGTH 2000 L	ia inc. Nox drive, lawrenceville,				PROJECT LOCATION: STONE HARBOR BORCUGH AN	ND MIDDLE TOWNSHIP 4/9/2024
DS DWY DI DIP DMS	DRIVEWAY DUCTILE IRON DUCTILE IRON PIPE DYNAMIC MESSAGE SIGN	LMC LT L LTG	LEFT PREPARED BY: WSP U LENGTH 2000 L LIGHTING	SA Inc. INOX DRIVE, LAWRENCEVILLE,	NIN (1911)	CAPE MA	REHABILITATION OF	TONE HARBOR BOROUGH AN CAPE MAY COUNTY, I	NEW JERSEY
DS DWY DI DIP DMS EA	DRIVEWAY DUCTLE IRON DUCTLE IRON PIPE DYNAMIC MESSAGE SIGN EACH	LMC LT LTG LSB	LEFT PREPARED BY: WSP U LENGTH LIGHTING LIGHTING STANDARD BOSS	SA Inc. NOX DRIVE, LAWRENCEVILLE,		CAPE MA	Y COUNTY 96TH STREET (CR657)	STONE HARBOR BORCUGH AN	ND MIDDLE TOWNSHIP NEW JERSEY SCALE AS SHOWN
DS DWY DI DIP DMS EA EF	DRIVEWAY DUCTILE IRON DUCTILE IRON DUCTILE IRON PIPE DYNAMIC MESSAGE SIGN EACH EACH EACH EACH EACH	LMC LT LTG LSB LOD	LEFT PREPARED BT. WOP UL LENGTH LIGHTING STANDARD BOSS LIGHTING SDISTURBANCE	SA Inc. NOX DRIVE, LAWRENCEVILLE,		CAPE MA	Y COUNTY 96TH STREET (CR657)	TONE HARBOR BOROUGH AN CAPE MAY COUNTY, I	SCALE AS SHOWN
DS DWY DIP DMS EA EF	DRIVEWAY DUCTLE IRON PIPE DUCTLE IRON PIPE DYNAMIC MESSAGE SIGN EACH EACH EACH FACE EAST	LMC LT LTG LSB LOD LOE	LEFT PREPARED BY: WPU LENGTH LIGHTING STANDARD BOSS LIMIT OF DISTURBANCE LIMIT OF CACAVATION	sa inc. Inox drive, lawrenceville,		CAPE MA	96TH STREET (CR657) BRIDGE OVER GREAT	ITONE HARBOR BORQUGH AN CAPE MAY COUNTY, I PRAWING TITLE:	SCALE: AS SHOWN SHEET REFERENCE NO.:
DS DWY DI DIP DMS EA EF	DRIVEWAY DUCTILE IRON DUCTILE IRON DUCTILE IRON PIPE DYNAMIC MESSAGE SIGN EACH EACH EACH EACH EACH	LMC LT LTG LSB LOD	LEFT PREPARED BT. WOP UL LENGTH LIGHTING STANDARD BOSS LIGHTING SDISTURBANCE				Y COUNTY 96TH STREET (CR657) BRIDGE OVER GREAT	TONE HARBOR BOROUGH AN CAPE MAY COUNTY, I	SCALE AS SHOWN SHEET REFERENCE NO.:

GENERAL NOTES:

DESIGN SPECIFICATIONS:

NEW ELEMENTS: 2020 (5TH EDITION) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH CURRENT INTERIMS, AS MODIFIED BY SECTION 3 OF THE NJDOT DESIGN MANUAL FOR BRIDGES AND STRUCTURES 6TH EDITION, 2016.

2023 (3RD EDITION) AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS.

NUDOT DESIGN MANUAL FOR BRIDGES AND STRUCTURES 6TH EDITION 2016

AASHTO/AWS D1,5/D1,5:2020 BRIDGE WELDING CODE WITH 2023 INTERIM PROVISIONS.

- EXISTING ELEMENTS: 2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, AS MODIFIED BY SECTION 3 OF NJDOT DESIGN MANUAL FOR BRIDGES AND STRUCTURES.
- 2. CONSTRUCTION SPECIFICATIONS: 2019 NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH CURRENT SUPPLEMENTAL SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISIONS.
- 3. LIVE LOAD: EXISTING COMPONENTS: AASHTO HS20-44 ± 10% OR AN ALTERNATE MILITARY LOADING OF TWO AXLES FOUR FEET APART WITH EACH AXLE WEIGHING 24,000 LBS., WHICHEVER PRODUCES THE GREATEST

EXISTING BRIDGE IS LOAD POSTED FOR 15 TONS (SEE LATEST BRIDGE SURVEY REPORT FOR CURRENT LOAD RATINGS). THE CONTRACTOR SHALL ONLY USE EQUIPMENT ON THE BRIDGE THAT COMPLIES WITH THE EXISTING LOAD POSTING RESTRICTION, NO CONSTRUCTION EQUIPMENT OR VEHICLE IN EXCESS OF 15 TON BROSS WEIGHT SHALL BE PERMITTED ON THE BROGE, DO NOT STORE MATERIALS OR EQUIPMENT ON 1 BRIDGE OR ANY OTHER STRUCTURES WITHOUT THE APPROVAL OF THE RE.

NEW COMPONENTS: AASHTO LRFD HL-93 VEHICULAR LIVE LOADING AND NJDOT PERMIT VEHICLE, WHICHEVER GOVERNS.

NEW BRIDGE TRAFFIC RAILING DESIGN IMPACT LEVEL = TL-4 (MASH).

- PEDESTRIAN RAILING AND HANDRAIL MOUNTED ON EXISTING BARRIER: OSHA PEDESTRIAN LOADING
- CONCRETE COMPRESSIVE STRESS:
- (A) DESIGN COMPRESSIVE STRENGTH (fc): CLASS A OR SCC = 4.000 PSI CLASS B = 3,000 PSI CLASS P = 5,000 PSI CLASS HPC-1, HPC-2 = 4,000 PSI PRECAST AND CAST-IN-PLACE ULTRA-HIGH PERFORMANCE CONCRETE (UHPC) = 14,000 PSI
- (B) CLASS MIX DESIGN STRENGTHS: CLASS MAIL DESIGNS THEMRIFIES UNDOT STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS). CLASS A OR SCC = 4.600 PSI AT 28 DAYS (LASS B = 3:00 PSI AT 28 DAYS CLASS B = 5:500 PSI AT 28 DAYS PRECAST AND CASTINUPLACE UNPC = 22,000 PSI AT 28 DAYS
- CLASS MIX DESIGN STRENGTHS: (C) (IN ACCORDANCE WITH TABLE 903.05.02-1 OF THE NJDOT STANDARD SPECIFICATIONS). HPC-1, HPC-2 = 5,400 PSI
- 5. STRUCTURAL STEEL:
 - (A) STRUCTURAL STEEL (UNLESS OTHERWISE NOTED): AASHTO M270, GRADE 36 OR 50 (ASTM A709, GRADE 36 OR 50), UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHALL BE GRADE 50.
 - (8) HIGH-STRENGTH BOLTS; ASTM F3125, GRADE A325, THREADS EXCLUDED FROM THE SHEAR PLANE.
 - (C) RAIL BARS: ASTM A500, GRADE B, ANCHOR BOLTS ASTM F1554, GRADE 55 (GALVANIZED).

 - (D) ALL PROPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED T.C. BOLTS AND THEN INTERMEDIATE AND TOP COATED (TOP COAT SHALL BE FIELD APPLIED FOR FASTENERS).
 - JOINT WELDING PROCEDURES, OVERALL FABRICATION METHODS, AND QUALITY CONTROL INSPECTION PROCEDURES TO BE DEVELOPED, REVIEWED AND CERTIFIED BY THE CONTRACTOR TO BE IN COMPLAINCE WITH THE PROJECT REQUIREMENTS. THESE DOCUMENTS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO FABRICATION. FOR ADDITIONAL REQUIREMENTS FOR THE ADVICE RECOMPLYING THE FAMILY AND ADDITIONAL REQUIREMENTS FOR THE (E) BASCULE SPAN ASSEMBLY NOTES ON SHEET BXX.
 - (F) NO WELDS, TEMPORARY OR PERMANENT, SHALL BE MADE TO THE TENSION FLANGE UNLESS DESIGNATED ON THE CONTRACT PLANS. FOR THE BASCILLE SPAN, NO WELDS, TEMPORARY OR PERMANENT, SHALL BE MADE TO ANY MEMBER, UNLESS DESIGNATED ON THE CONTRACT PLANS, WITHOUT PRIOR APPROVAL ON THE ENGINEER.
 - (G) ALLOWANCES SHALL BE MADE IN THE SHOP FOR SHRINKAGE DUE TO WELDING AND BURNING. IF UNEVEN SHRINKAGE IS ANTICIPATED, CAMBER ORDINATES SHALL BE ADJUSTED ACCORDINGLY.
 - (H) SEE STRUCTURAL STEEL PLANS FOR ANY MEMBER OF MEMBER COMPONENTS DESIGNATED SEE STRUCTURAL STEEL PLANS FOR ANY MEMBER OF MEMBER COMPONENTS DESIGNATED AS NON-REDUNANT STEEL TENSION MEMBERS, NOTIN, ALL WELDS TO STEEL DESIGNATED AS NSTM SHALL BE DESIGNATED AF RACTURE CRITICAL WELDS. MEMBER OR MEMBER COMPONENTS AND WELDS DESIGNATED AF RACTURE CRITICAL HALL BE SUBJECT TO THE PROVISIONS OF THE MOST CURRENT EDITION OF THE AASHTOIAWS D1.5 BRIDGE WELDING CODE, SECTION 12-FRACTURE CONTROL PLAN.
 - (I) FINISH: REFER TO SHEET BXX AND SPECIAL PROVISIONS FOR FINISHING REQUIREMENTS
 - (J) GIRDERS AND PERMANENT STEEL ELEMENTS: AASHTO M270, GRADE 50 (ASTM A709, GRADE 50) WITH SUPPLEMENTARY REQUIREMENTS FOR ALL MEMBER COMPONENTS MARKED (T).
 - (K) ALL NEW STEEL MEMBERS SHALL INCLUDE SUPPLEMENTARY REQUIREMENTS FOR TOUGHNESS ON ALL MEMBER COMPONENTS USING CHARPY V-NOTCH TESTING.
- REINFORCEMENT STEEL:

6.

ASTM A615, Fy=60,000 PSI, GALVANIZED ACCORDING TO NJDOT STANDARD SPECIFICATIONS, ASTM A615 (GRADE 60) EPOXY-COATED TO BE USED ONLY FOR REPAIRS OR CONVECTIONS/DOWELING TO EXISTING COMPONENTS IN LOCATIONS INDICATED.

- 7. SUPERSTRUCTURE:
 - (A) DEAD LOAD INCLUDES A 25 PSF PROVISION FOR A FUTURE 2-INCH THICK OVERLAY PROTECTIVE SYSTEM ON SPAN 14, NO OVERLAY PROVISIONS ARE MADE FOR THE BASCULE SPAN,

- 8. SUPERSTRUCTURE (CONT);
 - (D) UNLESS NOTED OTHERWISE, BOLTS SHALL MEET THE REQUIREMENTS OF ASTM F3125 GRADE A325, TYPE 3. FOR ALL GRADE F1852 BOLTS, THE RE SHALL BE PRESENT DURING THE REMOVAL OF ALL TWIST-OFF SPLINES.
 - (E) ALL THREADED RODS FOR USE IN CONCRETE SHALL BE GALVANIZED AND MEET THE REQUIREMENTS OF ASTM F1554 GRADE 36. ALL OTHER THREADED RODS SHALL MEET THE REQUIREMENTS OF ASTM DECK JOINTS AND DECK ARMORING (GALVANIZED): ASHTO M270, GRADE 36 (ASTM A750, GRADE 36) M A36.
 - (F) CONCRETE STRUCTURES: CLASS HPC-1: CONCRETE PARAPETS AND SPAN 14 DECK CLASS P: PRECAST BEAMS UHPC: CLOSURE POURS BETWEEN PRECAST ELEMENTS
 - (G) TEMPORARY BRIDGE: ALL STEEL COMPONENTS AASHTO M270, GRADE 50 OR AS SPECIFIED BY THE MANUFACTURER TO MEET ALL PROJECT SPECIFIC REQUIREMENTS PER SPECIAL PROVISIONS
 - (H) BRIDGE RAILING MEMBERS: (DUAL COATED; GALVANZED AND PAINTED PER SPECIAL PROVISIONS) RAIL BARS: ASTM 0450, GRADE B RAIL POSTS: AASTM 0470, GRADE 50 (ASTM A709, GRADE 50)
 - (1) DECK: EXODERMIC DECK STRUCTURAL TEES, BARS AND MISCELLANEOUS PLATES: GALVANIZED IN ACCORDANCE WITH ASTM A123
 - SEE SPECIAL PROVISIONS FOR ADDITIONAL FIBERGLASS REINFORCED POLYMER PANEL MATERIAL REQUIREMENTS.
 - (K) FOR BASCULE SPAN ASSEMBLY AND ERECTION NOTES. SEE SHEET BXX.
- 9. SUBSTRUCTURE:
- (A) CONCRETE STRUCTURE: CLASS A: ABUTMENT PILE CAPS, MEDIAN WALLS, FACING CLASS II: ABUTMENTS AND RETAINING WALLS, FACING CLASS INFO:2: CASTINFPLACE DASCULE PIER ELEMENTS. CLASS SCC: DRILLED STAFTS.
- (B) STRUCTURAL STEEL: INTERMEDIATE SHEETING; AASHTO M270, GRADE 50 (ASTM A709, GRADE 50)
- (C) ALL MISCELLANEOUS STEEL (CONNECTION PLATES, ANGLES, ETC.); AASHTO M270, GRADE 50 (ASTM A709, GRADE 50)

112]]

CATE

243884

Designed

CAPE MAY COUNTY

assass

Checked by

ZACK S

Drawn cy

- (D) THREADED RODS AND BASE PLATES FOR ABUTMENT: GALVANIZED PER ASTM A123
- (E) SHEAR CONNECTORS: GALVANIZED PER ASTM A780
- (F) MECHANICAL COUPLERS: AASHTO M232
- 10. SEISMIC DESIGN CRITERIA:

SITE CLASS SHORT PERIOD SITE FACTOR	Ss S1 F2 FV A	= 0.XXXg = 0.XXXg = X.X = X.X
--	---------------------------	--

11. BORINGS: INDICATES LOCATION OF BORINGS

- INDICATES LOCATION OF PREVIOUS BORINGS
- 12. FATIGUE:
- ALLOWABLE FATIGUE THRESHOLD STRESSES BASED ON AASHTO TABLE 6.6.1.2.3-1
- 13. FOUNDATION DESIGN CRITERIA: 5 FT DIAMETER ORIU ED SHAFTS

PIER NUMBER	788
NOMINAL COMPRESSION RESISTANCE FOR SINGLE SHAFT (KIPS)	2,400
FACTORED COMPRESSION RESISTANCE FOR SINGLE SHAFT (KIPS)	1,700
ESTIMATED TIP ELEVATION (FEET)	-85
MINIMUM SHAFT TIP ELEVATION (FEET)	-70
NOMINAL UPLIFT RESISTANCE FOR SINGLE SHAFT (KIPS)	X
FACTORED UPLIFT RESISTANCE FOR SINGLE SHAFT (KIPS)	X

(A) BASED ON THE RESULTS OF THE O-CELL TESTING, THE ENGINEER SHALL PROVIDE THE FINAL TIP ELEVATION FOR THE PRODUCTION DRILLED SHAFTS.

REPARED BY: WSP USA Inc. 2001 LENOX DRIVE, LAWRENCEVILLE, N.J. 08648

MARC S. ESPOSITO

- (B) THE TIDAL ELEVATIONS SHOWN ON THE PLANS WERE DETERMINED BASED ON THE PROCEDURES DEFINED IN THE STATE OF NEW JERSEY DEPARTMENT OF TRANSPORTATIONS TWEAN HIGH WATER MANUAL" OF 2008. THE CONTRACTOR SHOULD USE JUDGERMENT WHEN APPLYING THESE DATA FOR ALL CONSTRUCTION ACTIVITIES. TIDAL ELEVATIONS ARE BASED ON DATUM NAVD 88.
- (c) FONDATION EXCAVATION ROLLD BE INSPECTED BY A PROFESSIONAL ENGINEER LESINESD IN THE STATE OF New PRESE WITH SUFFICIENT GOETCOMPACE LEPORTISE SERVING AS A REPRESENTATIVE OF THE RESIDENT EXQUEER, TO VERIFY THAT THE MATERIAL ON WHICH THE FOLNDATION BEARS HAS THE CAPACITY NOTED IN THE DESIGN CRITERIA.
- (D) PRIOR TO PLACING CONCRETE, DEWATER AS NECESSARY TO MAINTAIN DRY CONSTRUCTION, THERE WILL BE NO SEPARATE PAYMENT FOR DEWATERING, COST IS CONSIDERED INCIDENTAL TO THE RELEVANT PAY ITEM.

N.J. PE LICENSE NUMBER: 240E04545101

- 14. DIMENSIONS AND ELEVATIONS:
- CIMENSIONS AND ELEVATIONS: (A) DIMENSIONS AND ELEVATIONS SHOWN IN THESE PLANS ARE BASED ON ORIGINAL CONSTRUCTION PLANS, AND LIMITED SURVEY PERFORMED DURING DESIGN. WHERE IN CONSILUTION THE THE GRIGHAL CONSTRUCTION PLANS, REW SURVEY INFORMATION HAS BEEN USED, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANT NECESSARY AUJUSTINENTS SALL BE SUBMITTED BY THE CONTRACTOR FOR THE COUNTRY SAPROVAL AT NO ADDITIONAL COST OR SCHEDULE IMPACTS DUE TO SUCH ADJUSTNENTS, ACTUAL STE CONDITIONS ENCOUNTRED SHALL BE ACCOUNTED FOR AND REFLECTED IN SHOP PRAMMAGS. THERE SHALL BE NO CLIMBA WATSOEVERS HOULD THE CONTRACTORS SURVEY DIFFER.
- (B) ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (AWD)-1983, ALL ELEVATIONS SHOWN ON CONCINAL CONSTRUCTION PLANS WERE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM (NOVD)-1929, THE DIFFERENCE IN ELEVATIONS BETWEEN HAVD 1988 AND NEWD 1929 AT THE BRIDGE IS -1.38 FEET. NGVD 1929 ELEVATIONS ARE HIGHER THAN NAVD 1988 AT THIS SITE.
- (C) EXISTING PLANS ARE AVAILABLE FROM THE COUNTY FOR INFORMATION ONLY. RELIANCE ON INFORMATION SHOWN ON EXISTING PLANS DOES NOT RELIEVE THE CONTRACTOR FROM VERIFING EXISTING DIMENSIONS AND ELEVATIONS.
- UTILITIES:
- (A) PROVISIONS SHALL BE MADE TO ENSURE THAT ANY EXISTING UTILITIES ARE NOT DAMAGED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT THE UTILITIES.
- (B) SERVICE IN UNDERGROUND AND AERIAL UTILITIES SHALL BE MAINTAINED THROUGHOUT
- (C) THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY OWNERS PRICE TO THE START OF CONSTRUCTION.
- (D) BRIDGE POWER SHALL BE MAINTAINED AT ALL TIMES. EXCEPT AS NOTED IN THE SPECIAL PROVISIONS.
- (E) THE INFORMATION SHOWN ON THESE CONTRACT PLANS CONCERNING THE TYPE AND LOCATION OF THE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO.
- (F) THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AT ALL TIMES UNLESS SPECIFICALLY DIRECTED OTHERWISE.
- (G) THE LOCATION OF SUBMARINE UTILITIES/CABLES SHOWN ON THE PLANS ARE APPROXIMATE, THE LOCATIONS PROVIDED MAY NOT BE ACCURATE AND MAY NOT INCLUDE ALL FACILITIES PRESENT ON-SITE. THE CONTRACTOR SHALL LOCATE ALL SUBMARNE UTILITIES PRIOT TO REMOVAL OF THE EXISTING FERDER OR ANY INSTALLATION WORK IS PERFORMED INCLUDING SPUDDING BARGES OR OTHER WORK PLATFORMS.

ROJECT LOCATION: TONE HARBOR BOROUGH AND MIDDLE TOWNSH CAPE MAY COUNTY, NEW JENSEY

GENERAL NOTES - 1

RAWING TITLE:

REHABILITATION OF

96TH STREET (CR657)

BRIDGE OVER GREAT

CHANNEL

STR, NO, 0500-006

4/9/2024

AS SUDVA

043 of 202

EET REFERENCE NO

CALE

SHEET NO.

17. ENVIRONMENTAL PERMITS:

- (A) THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF ALL ENVIRONMENTAL PERMITS FOR THIS PROJECT. THE PERMITS OBTAINED ARE INCLUDED IN THE SPECIAL PROVISIONS
- (8) TURBIDITY BARRIERS SHALL REMAIN IN PLACE DURING ALL IN-WATER WORK ACTIVITIES
- (C) NO EQUIPMENT OR TOOLS MAY BE STORED OUTSIDE OF DESIGNATED STAGING AREA IDENTIFIED IN THE ENVIRONMENTAL PERMIT PLANS, CONSTRUCT SOIL EROSION AND SEMMENT CONTROL MEASURES TO PREVENT SOILS AND OTHER MATERIALS FROM BEING DEPOSITED ON USISTING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON USISTING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON USISTING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE MATERIAL FROM BEING DEPOSITED ON THE STING ROMAWYS AND ON THE MAY AND A THE STING ROMAWYS AND ON THE STING ROMA ADJACENT AREAS OUTSIDE OF THE CONSTRUCTION LIMITS, AS DIRECTED BY THE RE, IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

18. ENVIRONMENTAL:

- (A) FOR EQUIPMENT OR MATERIAL STOCKPILING REQUIREMENTS, SEE THE SPECIAL PROVISIONS
- (B) MEASURES SHALL BE TAKEN TO PREVENT ANY DEBRIS FROM ENTERING THE WATERWAY, ROADWAYS, STORAGE AREAS AND WETLAND AREAS DURING CONSTRUCTION,
- (C) REFER TO PERMITS FOR ADDITIONAL REQUIREMENTS.

19. NAVIGATION CHANNEL

- (A) THE NAVIGATION CHANNEL SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH US COAST GUARD RESTRICTIONS, SEE SPECIFICATIONS AND ENVIRONMENTAL PLANS FOR CHANNEL FOULING RESTRICTIONS, NOTIFICATION REQUIREMENTS AND TIMING RESTRICTIONS
- (B) AT LEAST ONE HALF OF THE NAVIGATION CHANNEL SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES IN ACCORDANCE WITH THE UNITED STATES COAST GUARD RESTRICTIONS. SEE THE SPECIFICATIONS FOR CHANNEL FOLLING RESTRICTIONS AND NOTIFICATION REGURERENTS.
- 20. UNITED STATES COAST GUARD:
- TI IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE UNITED STATES COAST GUARD PRIOR TO BEGINNING ANY WORK IN OR OVER THE WATERWAY. THE CONTRACTOR SHALL COMPLY WITH U.S.C.G. REQUIREMENTS
- 21. PAINTING OF STRUCTURE SHALL BE AS FOLLOWS:

(A) BRIDGE RAILINGS: GALVANIZE AND PAINT IN ACCORDANCE WITH SPECIAL PROVISIONS. FINISH COAT COLOR: LAKE BLUE (FEDERAL CHIP NUMBER 25189)

(B) METALIZE AND PROVIDE FINISH COAT TO ALL BASCULE SPAN STRUCTURAL STEEL AS PER THE SPECIAL DVISIONS, FINISH COAT COLOR TO BE LAKE BLUE (FEDERAL CHIP NUMBER 25189)

22. MISCELLANEOUS:

- (A) THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY UTILITIES UTILITY THE CONTRACTOR SHALL PERFORMANCE WORK WIT ROVES OF THAT ANY OTHER SOLUTION POLSS, STRUCTURES, OR, ANY OTHER MATERIALS WHICH ARE TO REMAIN IN PLACE, THE BC DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS TO REMAIN IN PLACE, THE CONTRACTOR SHALL REPART OR REPLACE THE DAMAGED MEMBER(S) IN A MANNER SATISFACTORY TO THE RESIDENT ENGINEER AT THE CONTRACTOR'S EXPENSE.
- (B) THE CONTRACTOR SHALL OBSERVE ALL OF THE RULES, REGULATIONS, AND DIRECTIONS OF THE LOCAL MUNICIPALITIES AND TAKE SUCH PROTECTIVE MEASURES AS MAY BE ORDERED BY THE RESIDENT ENGINEER. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IN A MANNER SATISFACTORY TO THE RE AT THE CONTRACTOR'S EXPENSE
- PROVIDE 3" OF COVER TO REINFORCEMENT STEEL UNLESS NOTED OTHERWISE
- (D) THERE SHALL BE NO CLAIM AGAINST THE COUNTY MADE BY THE CONTRACTOR FOR THENE SHALL BE NO CLAIM AGAINST THE COUNTY MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MY DE REQURED DUE TO ANY DIFFERENCE BETWEEN THE ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS, THE CONTRACTOR WILL BE PAID AT THE PRICES BO FOR THE ACTUAL QUANTIFIES CONSTRUCTED FOR UNT PROCET THES DESIGNATED AS BIDFORT THE ACTIVITY COMMITTEE CONSTRUCTED FOR OWN FROM THE THE SUBJECT OF THE MACHINE STATEMENT OF THE SUBJECT OF THE SUBJECT
- (E) LINESS SPECIFICALLY DESIGNATES FOR REMOVAL AND/OR REMASELENT THE METORIC CHARACTER DEFINING FAITURES AS DESCRIBED IN THE SPECIAL REPOVISION MIST EE FORTECTED AND MAINTAINED DEFINING FOUT THE DURATION OF CONSTRUCTION AND MODPICATIONS TO ANY FEATURE MAY ONLY BE CARRED OUT AS SPECIFIED IN THESE CONTRACT DOCUMENTS. IN UNFORSESSEN CONDITIONS ARE CARRIED OUT AS SPECIFIED IN THESE CONTRACT DOCUMENTS, IF UNFORESEEN CONDITIONS ARE ENCOUNTERED WHICH AFFECT NUY CHARACTER DEPINISO FEATURES, IMMEDIATELY NOTIFY THE RE AND COORDINATE WITH NUPPO, NUPPO RESERVES THE RIGHT TO REJECT A PROPOSED PROJECT ELEMENT OR WORK PROCEDURE IF IT IS DEEMED TO BE INCONSISTENT WITH THE CHARACTER OF THE EXISTING STRUCTURE, ALL WORK, IMPACTING CHARACTER DEPINING FEATURES MUST BE SUBMITTED AND APPROVED BY NUPPO AND THE RE.
- (F) THE INFORMATION PRESENTED HEREON IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT GUARANTEED TO BE CORRECT. BIDDERS SHALL VISIT THE SITE BEFORE SUBMITTING BIDS TO ASCERTAIN THE EXTENT OF THE WORK. THE CONTRACTOR'S BID SHALL ACCOUNT FOR REMOVAL AND RECONSTRUCTION OF BRIDGE ELEMENTS WITH COMPLIANCE OF LOAD POSTING. ALL SITE VISITS ARE TO BE COORDINATED WITH THE COUNTY
- (G) QUANTITIES SHOWN IN THESE PLANS FOR VARIOUS REPAIRS ARE APPROXIMATE. PRIOR TO FARRICATION AND DEVELOPMENT OF SHOP DRAWINGS THE CONTRACTOR SHALL DETERMINE DOCUMENT AND OBTAIN THE ENGINEERS APPROVAL FOR THE REQUIRED REPAIR LIMITS FOR THOSE ITEMS WHERE QUANTITIES ARE LIKELY TO CHANGE.
- (H) FOR ACCEPTABLE LANE CLOSURE HOURS, SEE THE SPECIAL PROVISIONS.
- (1) CONTRACTOR SHALL COORDINATE WITH USEG FOR ALL WORKS, TEMPORARY IMPACTS, IF ANY TO MARINE TRAFFIC AND SUBMIT ALL CORRESPONDENCE TO THE RESIDENT ENGINEER. E SPECIAL PROVISIONS
- (J) SEE SPECIAL PROVISIONS FOR SEASONAL WORK RESTRICTIONS.
- (K) THE CONTRACTOR SHALL CONDUCT A BATHYMETRIC SURVEY PRIOR TO THE ONSET OF CONSTRUCTION ACTIVITIES TO VERIFY THE EXISTING CONDITIONS OF THE WATERWAY. AFTER THE CONSTRUCTION OF THE FENDER IS COMPLETE. THE CONTRACTOR SHALL CONDUCT A FINAL SURVEY TO VERIFY THE INVIGABLE CHANNEL HAS BEEN RESTORED TO ITS ORGIVAL CONDITION AND FREE OF DEBRIS.
- (L) DO NOT STORE OR STOCKPILE EQUIPMENT OR MATERIALS WITHIN OPEN WATER, WETLANDS, OR WETLAND BUFFER UNLESS ALLOWED BY THE PERMITS, DO NOT STORE OR STOCKPILE MATERIALS ON THE CLOSED PORTION (OR ANY PORTION) OF THE BRIDGE, UNLESS SPECIFICALLY APPROVED IN WRITING BY THE COUNTY.

MISCELLANEOUS (CONT):

- (M) THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING THE EXISTING BRIDGE ELEMENTS THAT ARE TO REMAIN. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IN A MANNER SATISFACTORY TO THE CONTRACTOR'S EXPENSE.
- (N) NAVIGATIONAL LIGHTING SHALL REMAIN OPERATIONAL AND VISIBLE AT ALL TIMES FOR THE DURATION OF THE CONTRACT, TEMPORARY LIGHTING SHALL BE INSTALLED AND MAINTAINED DURING ANY TIME THAT PERMANENT FIXTURES ARE NOT OPERATIONAL.
- (O) UPON NOTIFICATION BY THE RE, SUSPEND OPERATIONS AS NECESSARY AND PROVIDE SAFE AND ADEQUATE ACCESS INTO OR THROUGH THE WORK SITE BY EMERGENCY VEHICLES, VESSELS AND/OR PERSONNEL
- (P) THE RE OR DESIGNATED REPRESENTATIVE WILL INSPECT ALL PHASES OF THE WORK TO ENSURE THAT THEY ARE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND MINITANI ACCESS, INCLUDING ALL EQUIPMENT INCESSARY, FOR THE RE AND HS INSPECTION PERSONNEL. THE PRESENCE OF THE RE SHALL NOT RELEVE THE CONTRACTOR OF HS RESPONSIBILITY TO PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY TO PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF PROVIDE ADEQUITE INSPECTORS OF HS ONN TO A DECIDENT OF THE RESPONSIBILITY OF THE RESPONSIBI ASSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- (Q) GRADING, CLEARING, OR FILLING ACTIVITIES WITHIN OPEN WATERS. WETLANDS, AND WETLAND BUFFERS ARE FROMBITED UNLESS SPECIFICALLY AUTHORIZED BY THE PERMITS ISSUED TO THE COUNTY FOR THIS PROJECT.
- (R) DURING REMOVAL OPERATIONS, DO NOT DROP WASTE, DEBRIS, OR OTHER MATERIALS INTO THE WATERWAY, IF THE RE DETERMINES THAT ADEGUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED, AND THE SUSPENSION WILL NOT BE A CAUSE TO EXTEND THE CONTRACT COMPLETION DATE. PROPERLY DISPOSE OF ALL MATERIAL GENERATED DURING REMOVAL OPERATIONS.
- (\$) THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSED JENT THE CONTRACTOR IS ADVISED THAT ADDITIONAL MOTES WILL BE POUND OF SUBBECLESS SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- (T) THE CONTRACTOR MAY NOT DRILL INTO ANY SUPERSTRUCTURE OR SUBSTRUCTURE ELEMENTS FOR THE INSTALLATION OF TEINFORMEY SHELDING OR ANY OTHER TEMPORARY SUPPORT WITHOUT THE APPROVAL OF THE RE.
- (U) SHOULD AN EMERGENCY EVACUATION EVENT BE REQUIRED DURING CONSTRUCTION, THE CONTRACTOR SHALL WORK WITH THE RE AND THE COUNTY TO PROVIDE SAFE PASSAGE OF ALL MODES OF TRANSPORTATION UNLESS IT IS DEEMED NOT FEASIBLE BY THE RE BASED ON THE CONDITIONS OF THE CONSTRUCTION SITE
- (V) SEE ELECTRICAL DRAWINGS FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS
- (W) SEE MECHANICAL DRAWINGS FOR MECHANICAL GENERAL NOTES.
- (X) SEE BUILDING DRAWINGS FOR BUILDING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
- (Y) SEE HIGHWAY DRAWINGS FOR ADDITIONAL LEGEND AND ABBREVIATIONS
- (Z) HIGHWAY LIGHTING ABOVE AND BELOW DECK WILL REMAIN OPERATIONAL AND VISIBLE FOR THE DURATION OF THE CONTRACT.
- (A4) THE CONTRACTOR WILL DESIGN AND PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUERED, OR THAT MAY BE DIRECTED BY THE RESIDENT ENGINEER, TO PROTECT THE SAFETY OF DADACENT STRUCTURES, ROADWAYS OR UTUTIES, THE COST OF THE WORK WILL BE INCLUDED IN THE BID FOR THE VARIOUS ITEMS OF WORK LINDER THIS CONTRACT
- (AB) UPON NOTIFICATION OF ANY UNDESIRABLE CONSTRUCTION PRACTICES, THE CONTRACTOR WILL DISCONTINUE ALL OPERATIONS IN THE AFFECTED AREA, IMMEDIATE ACTIONS WILL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE RESIDENT ENGINEER BEFORE WORK IS RESUMED.
- (AC) CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY AND INTEGRITY OF THE STRUCTURE DURING THE REMOVAL AND ANY PROPOSEDIRECONSTRUCTION WORK FOR THIS PROJECT. INCLUDING ANY TEMPORARY CONDITIONS BASED LPORT HE CONTRACTORS MEANS AND METHODS. THIS RESPONSIBILITY EXTENDS UNTIL ALL WORK IS COMPLETE AND THE JOB IS CLOSED, RETURNING THE BRIDGE TO THE COUNTY IN A CONDITION THAT IS APPROVED BY THE COUNTY,
- (AD) THE CONTRACTOR IS CAUTIONED THAT THE STRENGTH OF THE CONCRETE IN THE EXISTING DECK, CURBS AND SIDEWALKS MAY SIGNFICANTLY EXCEED THE DESIGN STRENGTH SPECIFIED ON THE ORIGINAL CONSTRUCTION AND REHABILITATION PLANS. THE CONTRACTOR SHALL NOT RELY ON THESE MOMINAL VALUES OF THE STRENGTH OF THE EXISTING CONCRETE IN SELECTING THE EQUIPMENT REQUIRED FOR THE STRENGTH OF THE EXISTING CONCRETE IN SELECTING THE STRENGTH WILL BE CONSIDERED BY THE COUNTY.
- (AE) THROUGHOUT THESE PLANS, WHERE CALCULATIONS OR DESIGN ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR FOR THE ENSINEER'S APPROVAL. THEY MUST BE SIGNED AND SEALED BY A PROFESSIONAL LENSINEER IN THE STATE OF NEW URBERY. CALCULATIONS FOR ANY SUCH REQUIRED TEM MUST BE PREPARED TO THE STANDARD OF PROFESSIONAL CARE FOR THE TEM IN QUESTION, UTILIZING ALL APPLICABLE CODES AND VERPHING ALL APPLICABLE COMPONENTS, UMIT STATES AND CRECUMSTANCES, ETC. TI'S NOT FRACTICAL TO USE TALL SUCH CIRCUMSTANCES OR CASES WITHIN THE CONTRACT, HOWEVERITI IS THE RIGHT OF THE RESIDENT ENGINEER TO LPHOL THE STANDARD CRECUMSTANCES. OF PROFESSIONAL CARE IN THE INTERPRETATION OF ANY REQUIRED CALCULATIONS OR DESIGN.
- (AF) ALL WORK SHOWN THROUGHOUT THESE PLANS IS REQUIRED TO BE COMPLETED PER THE CONTRACT BID DOCUMENTS, THE PAYMENT OF WHICH IS INCLUEDE IN THE UST OF PAY ITEMS. ALL WORK IS INCLUEDE IN THESE PAY TEMS. ETHER REVENTION OF MANDRAW MUL BE ENTERTAINED FOR WORK SHOWN BUT NOT EXPLOITING THE DESCRIPTION IN THE SPECIFICATIONS OR PLANS. ANY ADDRES OR TABLES THROUGHOUT FREE PLANS WHICH PROVIDE ADDITIONAL UNFORK THORE AROUND IS TO BE MADE FOR CORK TAINING THE SPECIFICATIONS OR PLANS. ANY ADDRES OR TABLES THROUGHOUT IS TO BE MADE FOR CORK TAINING THE ADDITIONAL UNFORKATION RECARDING WHERE PAYMENT IS TO BE MADE FOR CORKTAINTENS IS INCLUDED AS A GUIDE TO THE CONTRACTOR ONLY AND DOES NOT SUPERSEDE THIS NOTE.

PREPARED BY: WSP USA In; 2000 LENCK DRIVE, LAWRENCEVILLE, NJ, 88448	115p		CAPE MAY COUNTY		REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STONE HARBOR BOROUCH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE: AS SHOWN SHEET REFERENCE NO.:	
		#######	ZACK S	H488468	CHANNEL	GENERAL NOTES - 2	of	
MARC S. ESPOSITO	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006		SHEET NO .: 044 of 202	

MISCELLANEOUS (CONT):

(AG) MASS CONCRETE REQUIREMENTS SHALL APPLY TO ALL COMPONENTS AS DEFINED BY THE STANDARD SPECIFICATIONS INCLUDING NEW FOOTINGS, ABUTNENTS, AND SUBSTRUCTURE ELEMENTS, SUBMIT MASS CONCRETE POUR PLAN FOR APPROVAL BASED ON THE CONTRACTORS SCHEDULE, ALSO SUBMIT A COLD WEATHER AND/OR HOT WEATHER CONCRETE PLAN AS APPROPRIATE. (AH)

EXAMPLE, VERIFY, AND DETERMINE ALL CONDITIONS, DIMENSIONS, ELEVATIONS AND GEOMETRY OF THE INFORMATION SHOWN ON THE PLANS PRIOR TO DEVELOPMENT OF WORKING DRAWINGS AND BEGINNING WORK, IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, INMEDIATELY NOTIFY THE ENGINEER AND INCORPORTE THE FIELD CONDITIONS AND DIMENSIONS INTO THE PREPARATION OF WORKING DRAWINGS AS APPLICABLE.

ADDITIONAL FENDER DESIGN NOTES:

ADDITIONAL FENDER DESIGN NOTES: (0) THE PERFORMANCE OF THE FENDER IS TO BE EXPRESSED BY THE VALUE OF ENERGY ABSORBED DURING COMPRESSION OF THE FENDER UP TO THE DESIGNED DEFLECTION AND THE MAXIMUM VALUE DURING COMPRESSION OF THE FENDER UP TO THE DESIGNED DEFLECTION AND THE MAXIMUM VALUE SEPCIAL, PROVISIONS, THE FENDERS VALUE (ADVIEWA, PERFORMANCE OF THE STATED NONNAL DESIGN PERFORMANCE, SHOULD THE CONTRACTOR PROPOSE ANY ELBRENTS WITH MATERNAL PROPERTIES BEYOND THE TENDERS SHALL ACCOMPANT THE REVISIONS, ANI INDEPENDENT DESIGN OF THE ENTIRE FENDER STATU ADVIEWA FRECOMMENT OF THE SECIAL PROVIDENTS, AND SHALL NEET THE FOLLOWING MINIMUM PERFORMANCE REQUEREMENTS AT THE LEVEL OF THE TOWALE INTER FENDERS SHOULD THE REVISION OF THE REVISION OF THE THE ADVIEWALE DESIGN OF THE ENTIRE FENDER SHALL ACCOMPANT THE RECLUSTED ELEMENTS AND SHALL NEET THE FOLLOWING MINIMUM PERFORMANCE REQUERTS AT THE LEVEL OF THE TOWALE

	 ZONE 1 (TANGENT FENDER SEGMENTS) 		
	 MINIMUM ENERGY CAPACITY 		XX K-FT
	 MAXIMUM DEFLECTION 	•	XX FT
	 MINIMUM TIP ELEVATION 		XXXX FT
	 ZONE 2 (FLARED FENDER SEGMENTS) 		
	 MINIMUM ENERGY CAPACITY 	-	XX K-FT
	 MAXIMUM DEFLECTION 	•	XX FT
	 MINIMUM TIP ELEVATION 		XXXX FT
	iii. ZONE 3 (DOLPHIN)		
	 MINIMUM ENERGY CAPACITY 	•	XX K-FT
	 MAXIMUM DEFLECTION 	-	XX FT
	 MINIMUM TIP ELEVATION 		XXXX FT
(B)			
	MODULUS OF ELASTICITY		5,700 KSI
	STIFFNESS (EI)		2.11 E+10 LBSQ. IN.
	YIELD STRESS IN BENDING	-	58.1 KSI
(C)	FIBER REINFORCED POLYMER COMPOSITE PILE - 13" DIAMETER.		
	MODULUS OF ELASTICITY	•	1,023 KSI
	STIFFNESS (EI)	-	1.43 E+09 LB,-SQ, IN,
	YIELD STRESS IN BENDING		14.9 KSI
(D)	FIBER REINFORCED POLYMER PIPE PILE (FRPP) - 36" DIAMETER.		
	MODULUS OF ELASTICITY		5,700 KSI
	STIFFNESS (EI)	-	1.38 E+10 LBSQ. IN.
	YIELD STRESS IN BENDING	•	58.1 KSI
	-		
(E)	FIBER REINFORCED PLASTIC LUMBER (FRPL) - 12" x 12",		
	MODULUS OF ELASTICITY		540 KSI
	STIFFNESS (EI)		8.50 E+0,8 LBSQ, IN.
	YIELD STRESS IN BENDING	•	9.1 KSI
Ē	FIBER REINFORCED STRUCTURAL LUMBER (FRSL) - 3" x 10".		
	MODULUS OF ELASTICITY	•	306 KSI
	FLEXURAL STRENGTH		2.75 KSI
	COMPRESSIVE STRENGTH (PARALLEL TO GRAIN)	*	2.84 KSI
	COMPRESSIVE STRENGTH (PERPENDICULAR TO GRAIN)		1.48 KSI

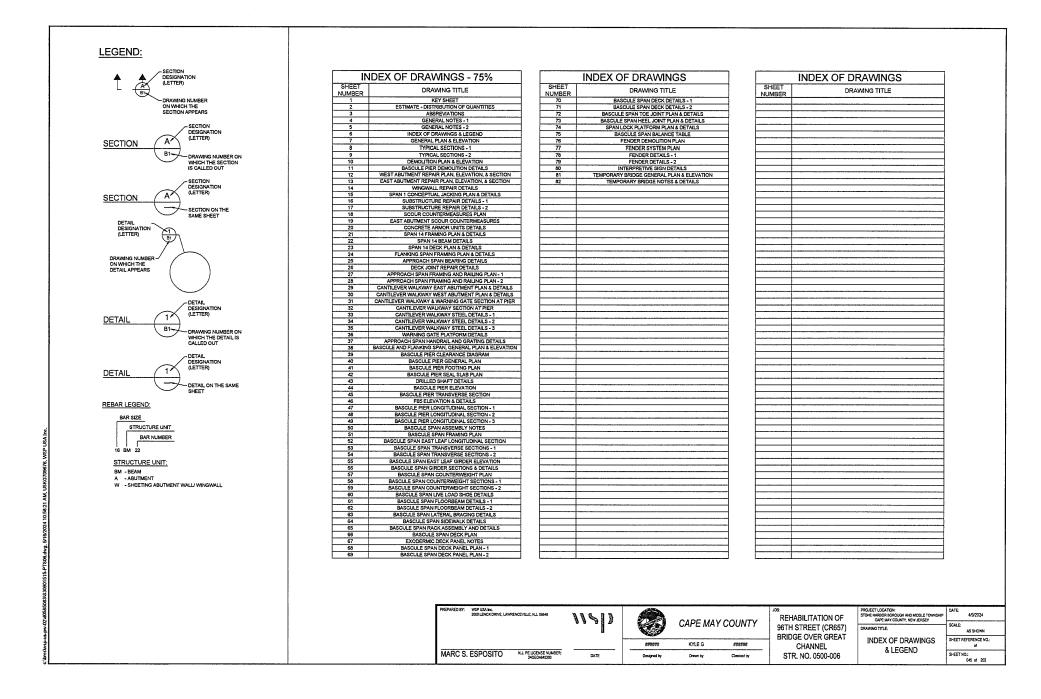
(G) HARDWARF

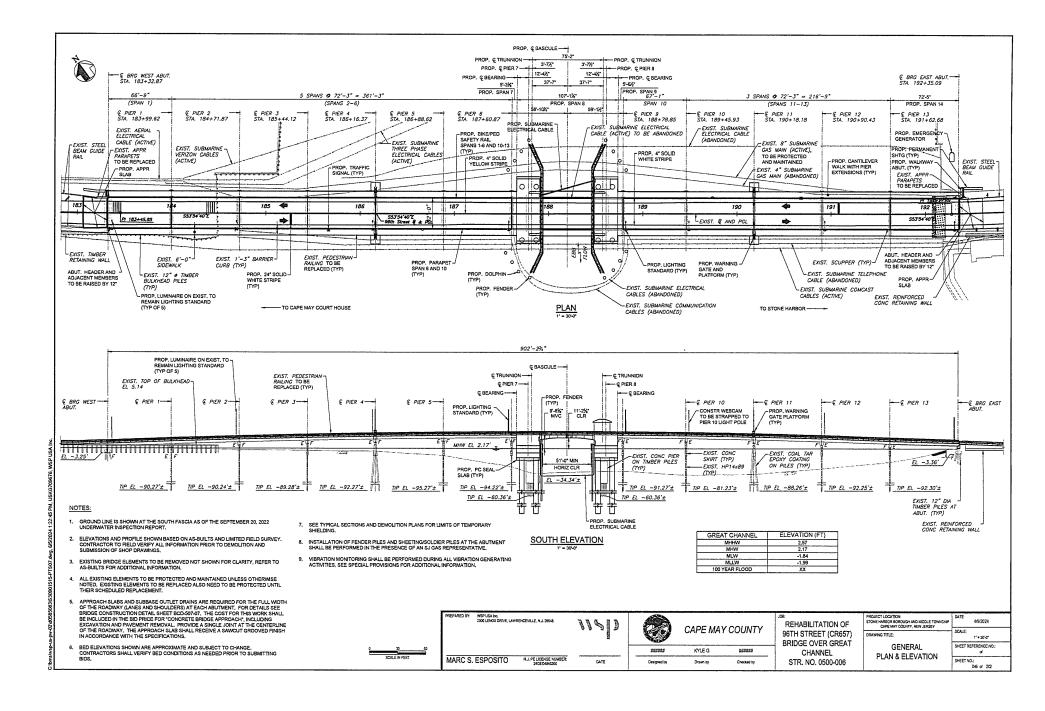
NUTS, BOLTS, WASHERS, THREADED RODS, AND SCREWS SHALL BE 316L STAINLESS STEEL. BOLTS SHALL CONFORM ASTM A320 GRADE B8M, CLASS 1. NUTS SHALL CONFORM TO ASTM A194 GRADE 8M.

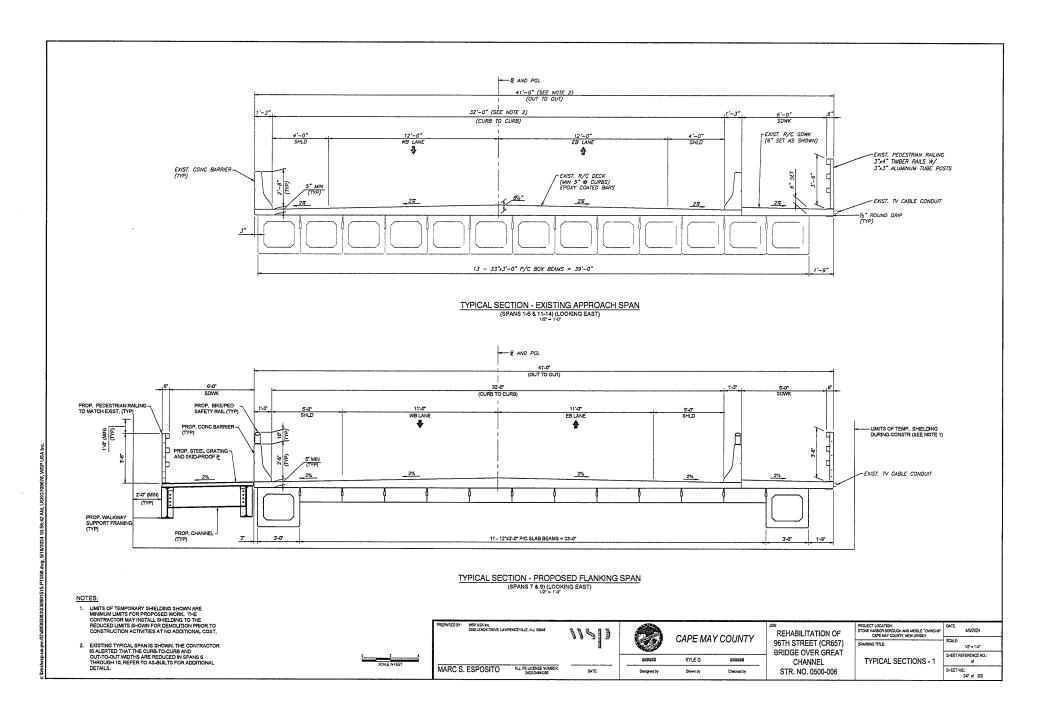
(H) ACCESS LADDER: AUCESS DADLER: THE LADER AND ASSOCIATED MOUNTING BRACKETS SHALL BE MADE FROM ALUMINUM CONFORMING TO ASTM B221, 6661-T6 ALLOY. THE COST OF THE LADDER AND ASSOCIATED MOUNTING BRACKETS SHALL BE INCLUBED IN THE PAY ITEM "ACCESS LADDER".

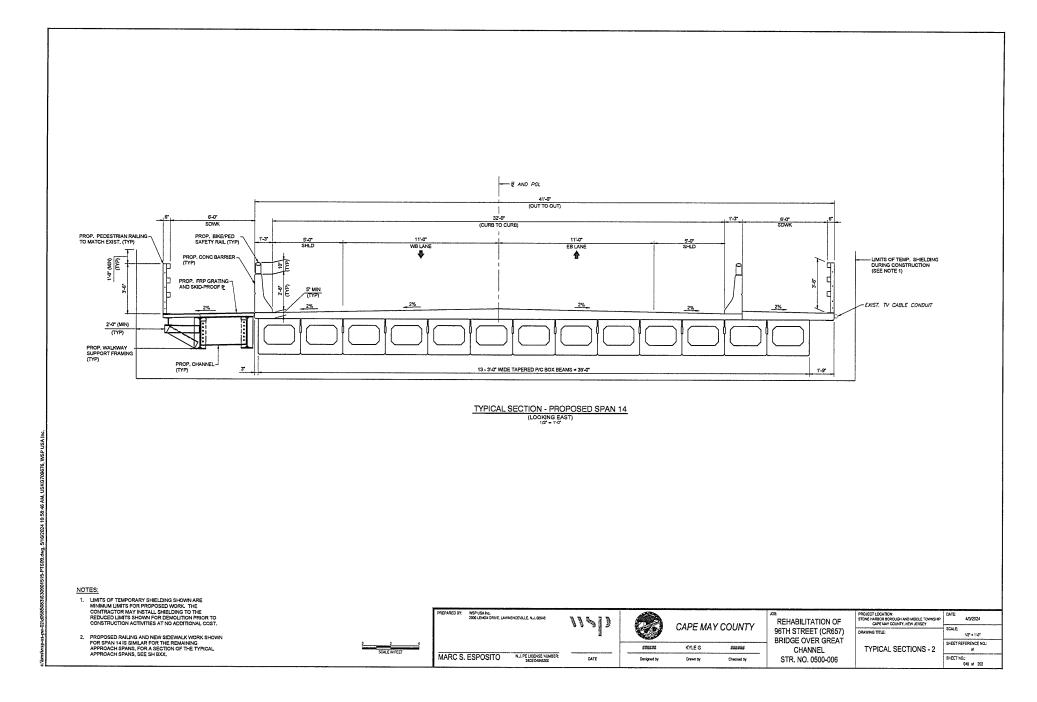
(1) THE COST OF FIBERGLASS REINFORCED WALES INCLUDING COMPOSITE LUMBER SPACER BLOCKS, FRPL THE COST OF THE HOLDS'S HELTONGED HULES INCLUDING COMPOSITE LONGER SPACER DECKRO, FREE WALKWAY DECK SUPPORT, SPLICING AND STAINLESS STEEL CONNECTION HARDWARE SHALL BE INCLUDED IN PAY ITEM "POLYMER STRUCTURAL WALE."

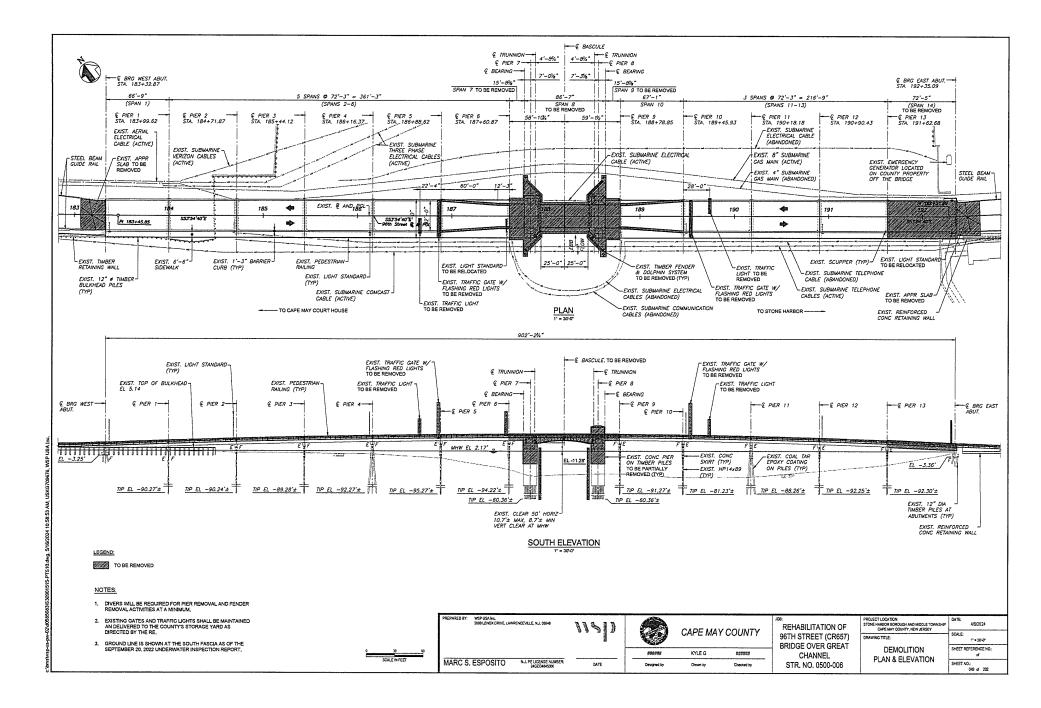
(J) THE COST OF MAINTENANCE WALKWAY INCLUDES COMPOSITE LUMBER RAILING, COMPOSITE LUMBER POST, COMPOSITE LUMBER PLANKS, PIER MOUNTED ALUMINUM HANDRAIL AND ALL CONNECTING HARDWARE SHALL BE INCLUDED IN PAY ITEM "POLYMER STRUCTURAL WAITENANCE WALKWAY."

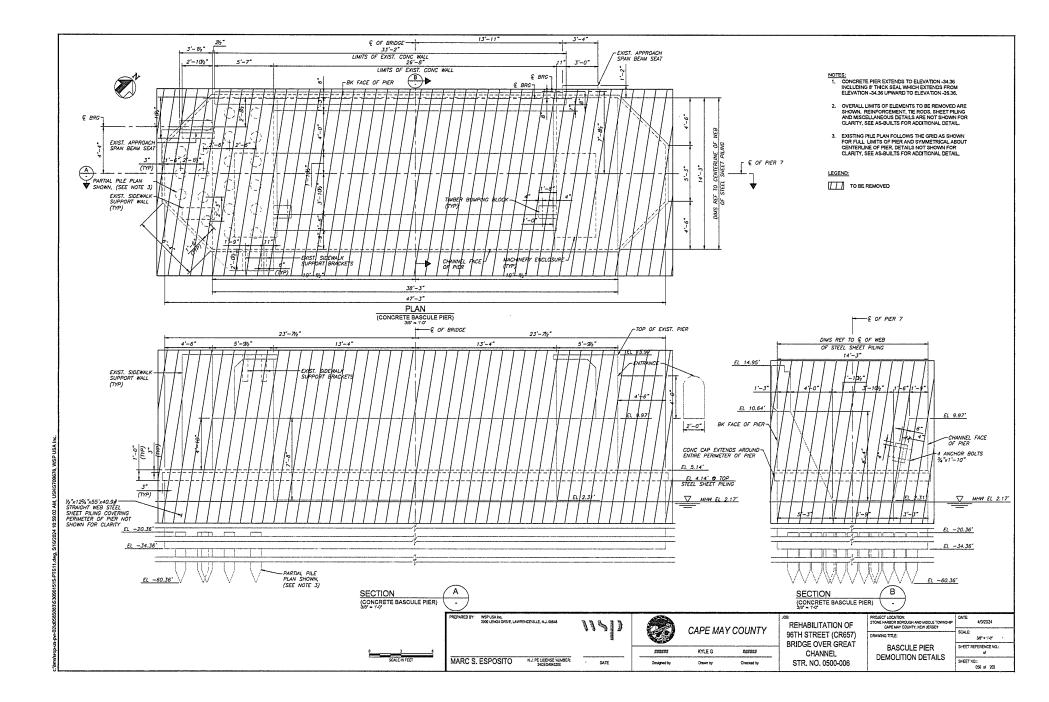


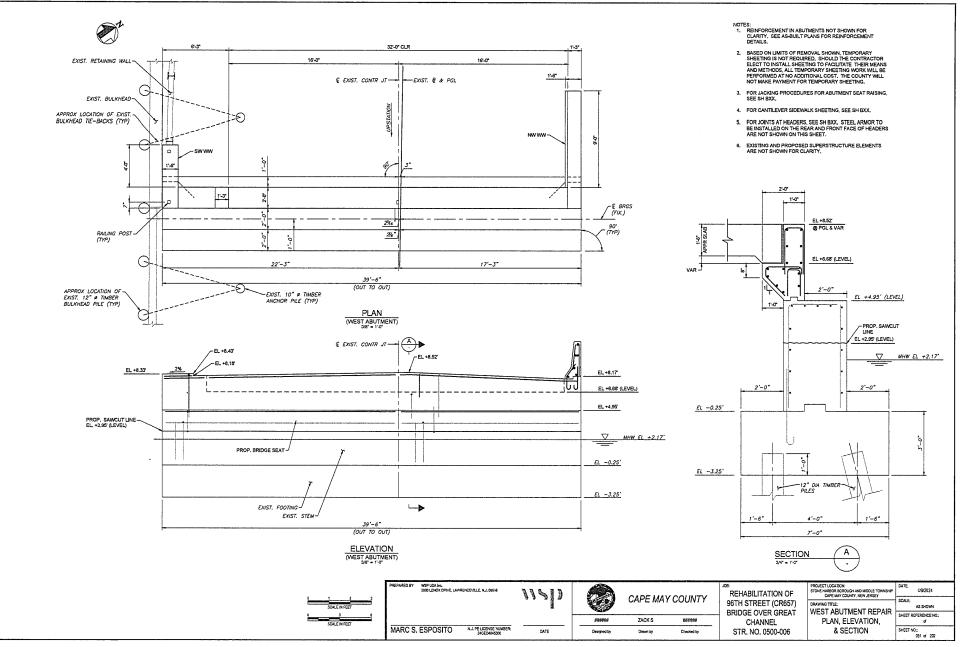




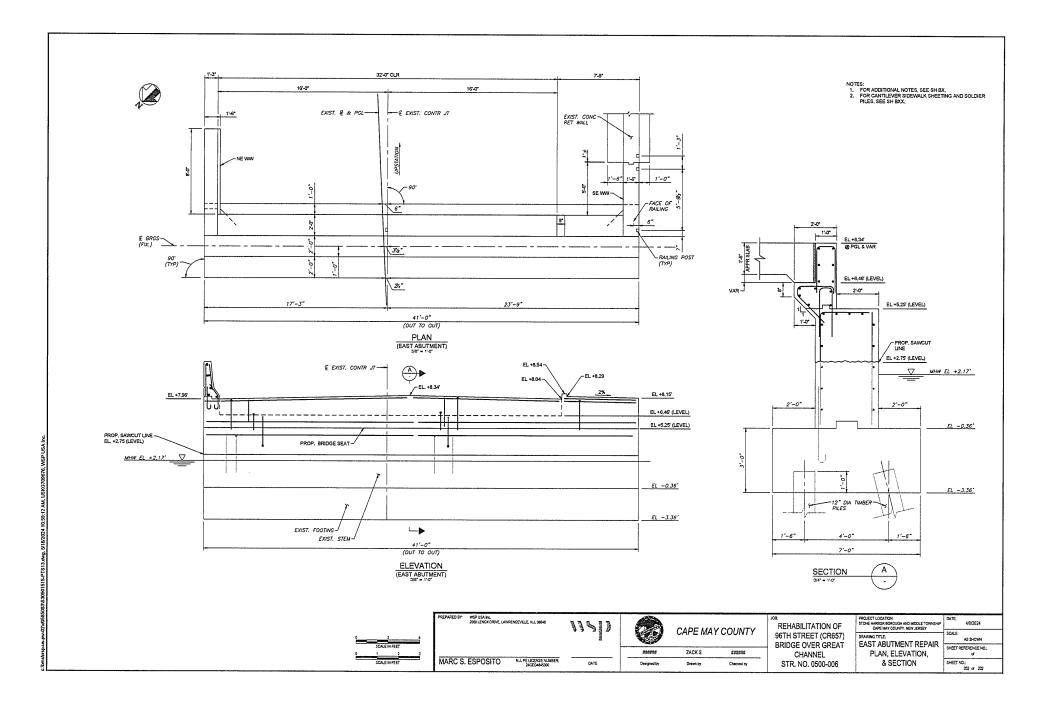


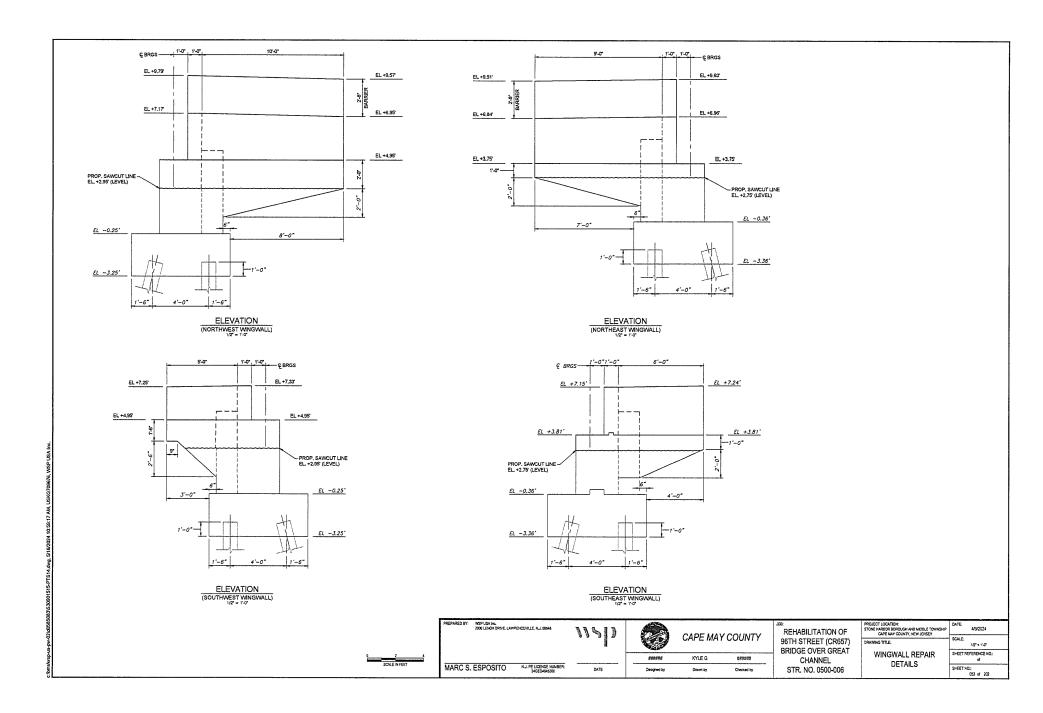


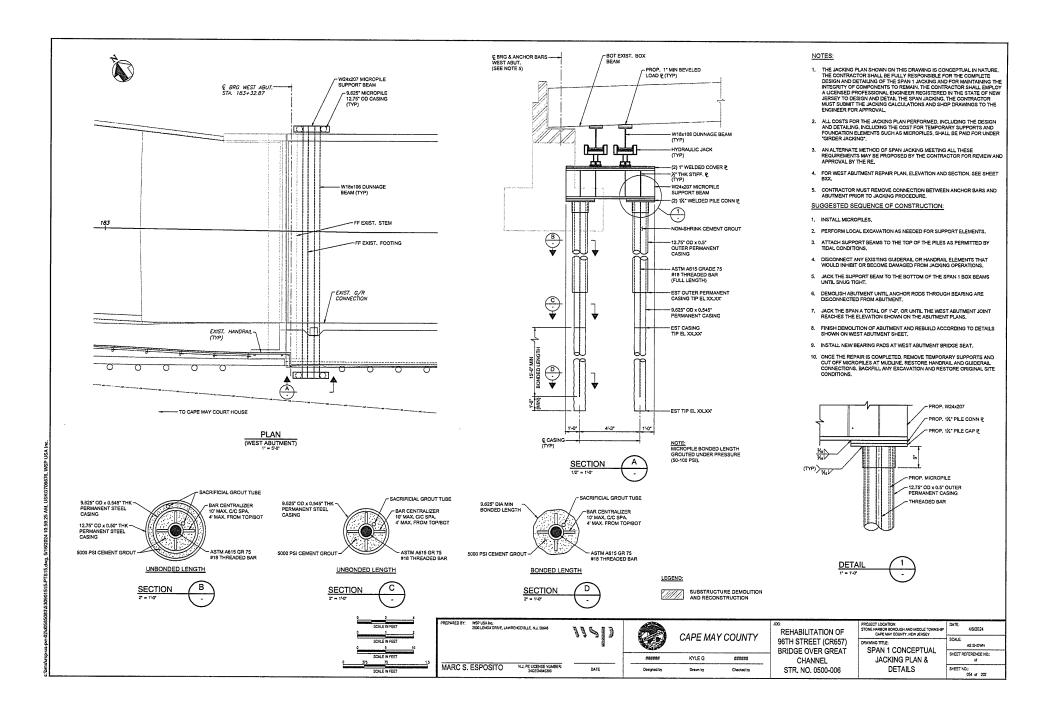


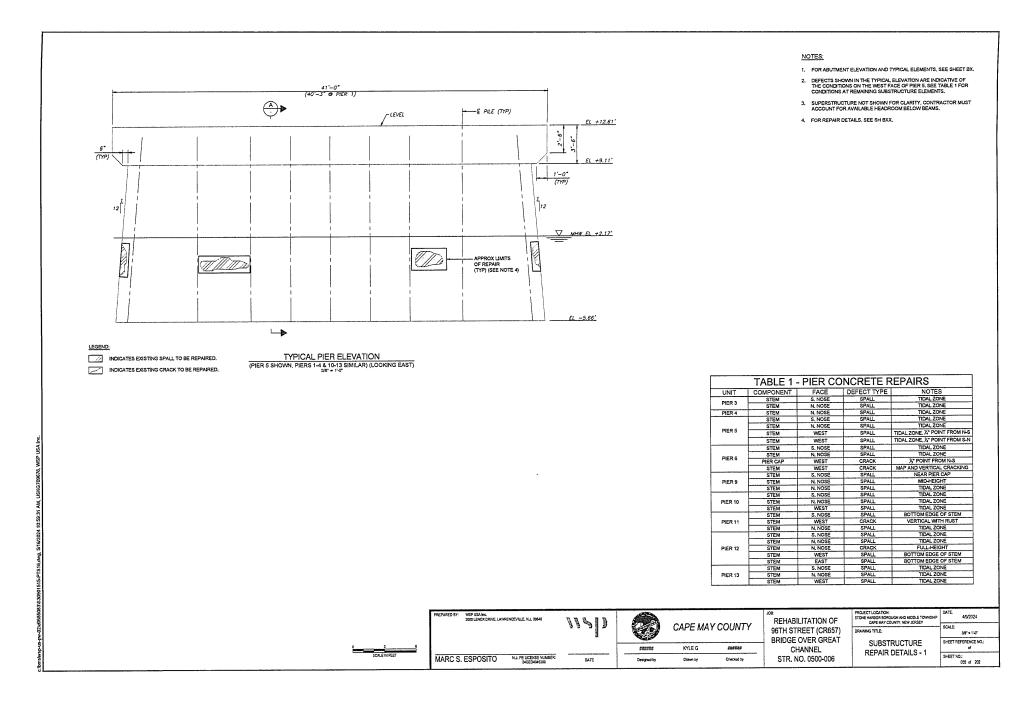


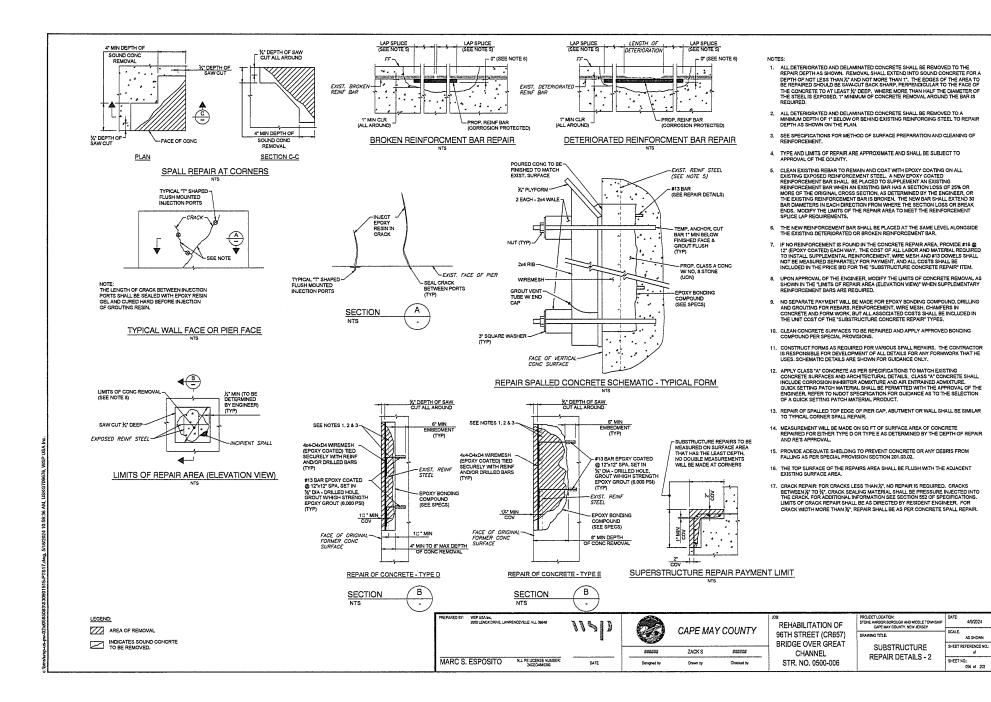
•

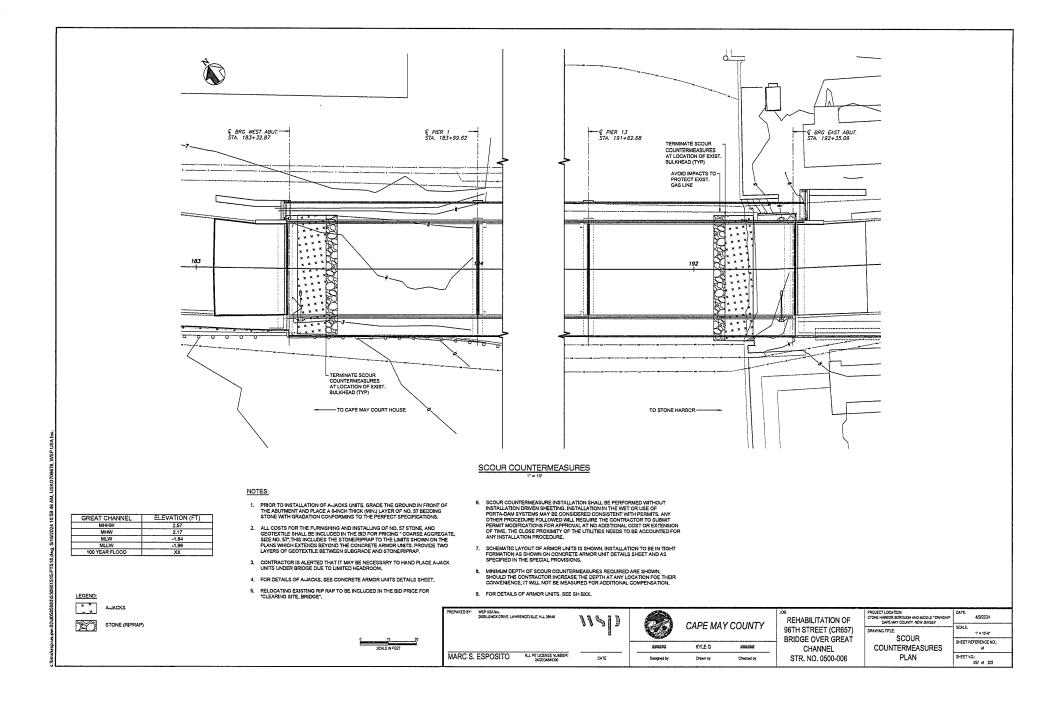


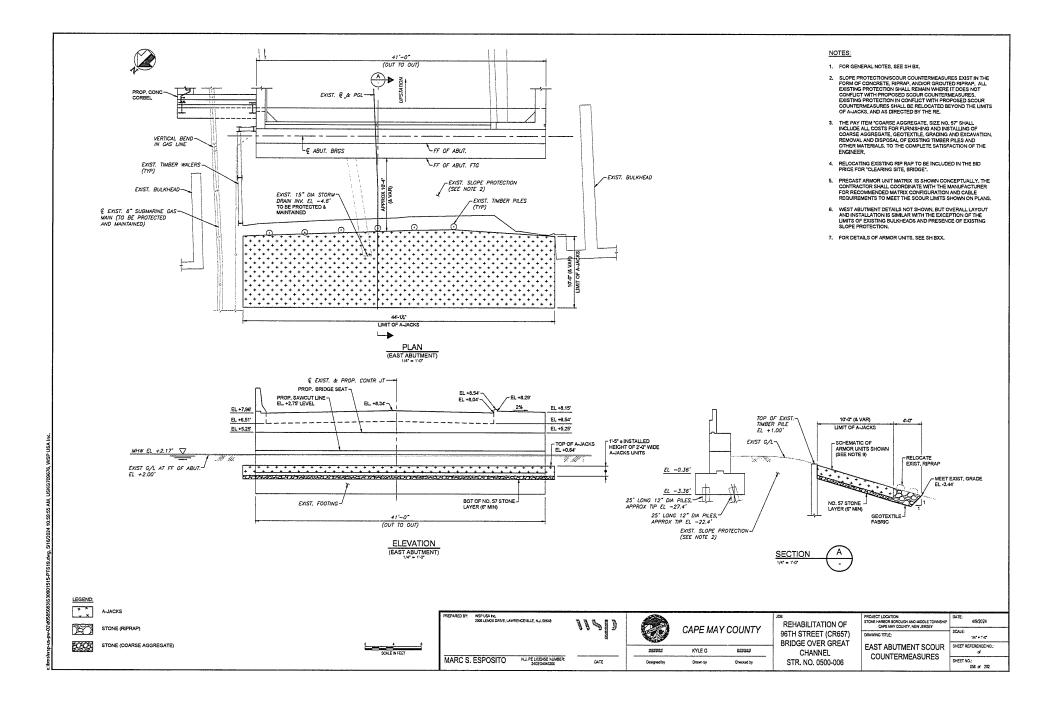


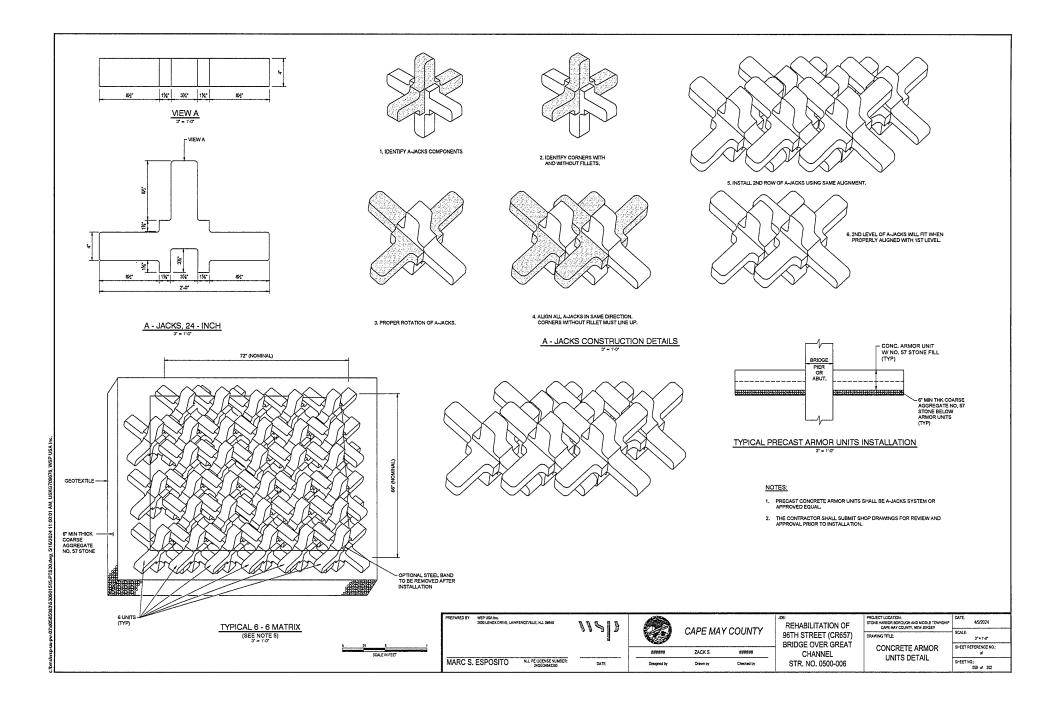


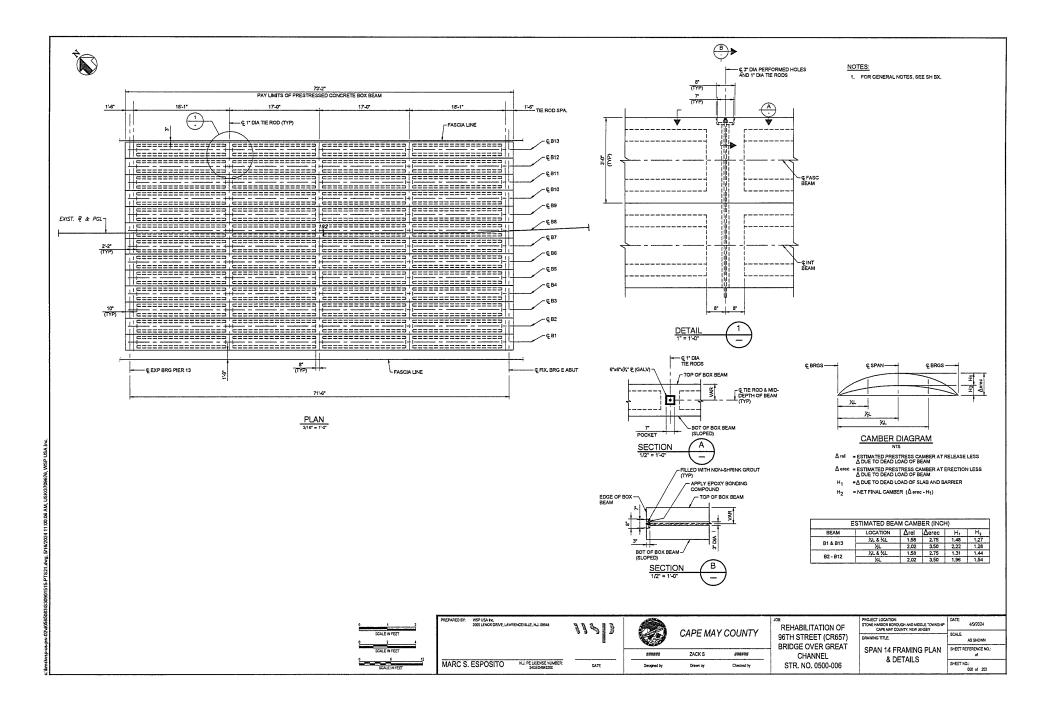


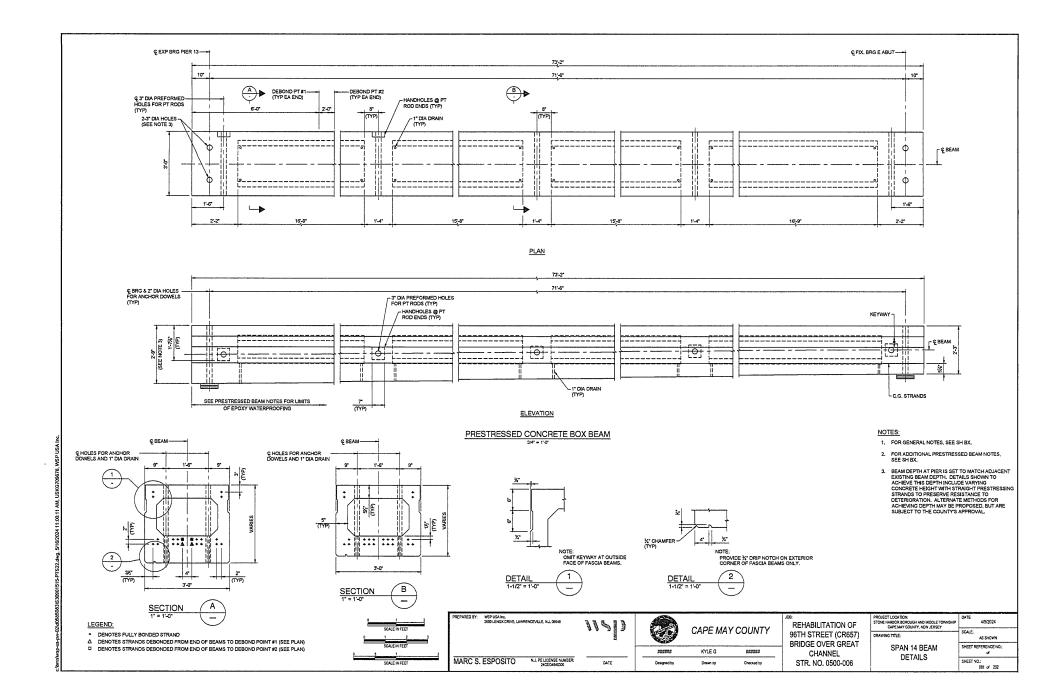


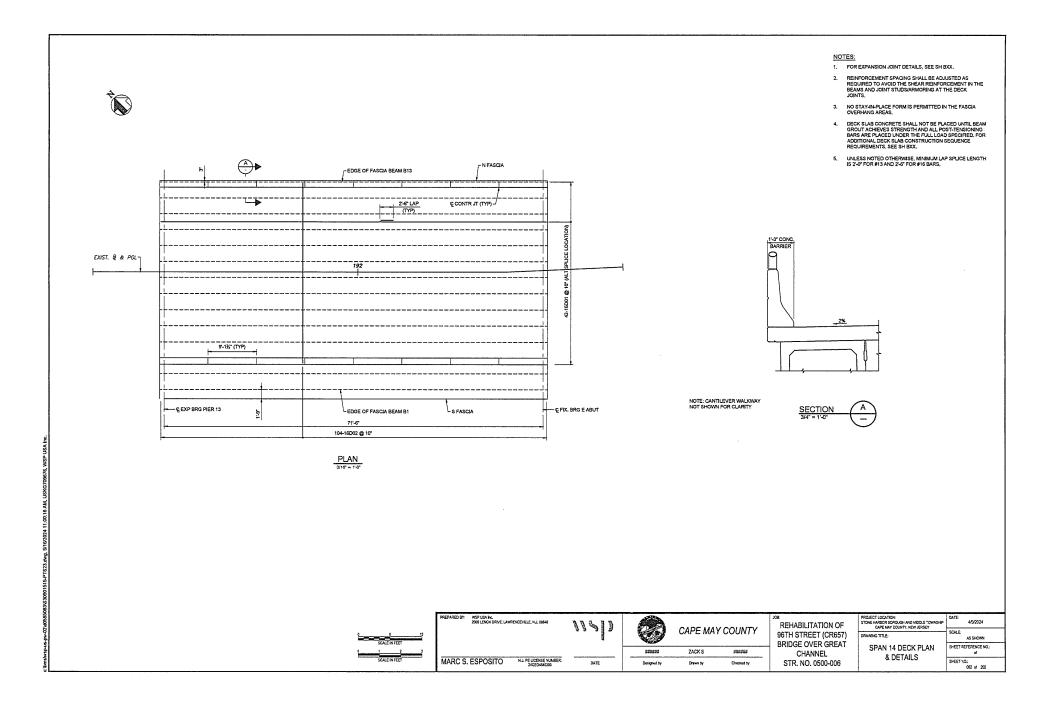


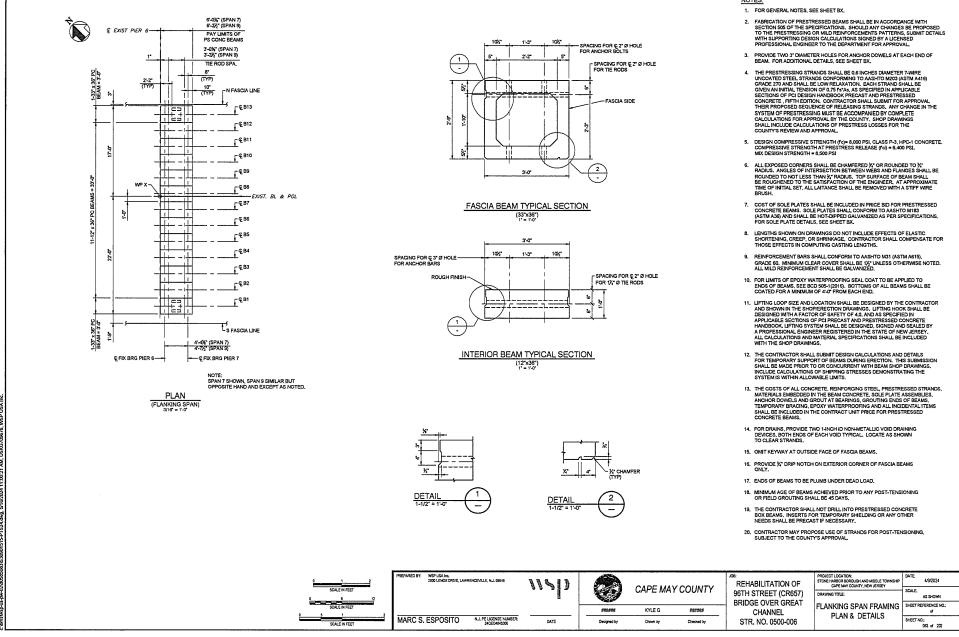




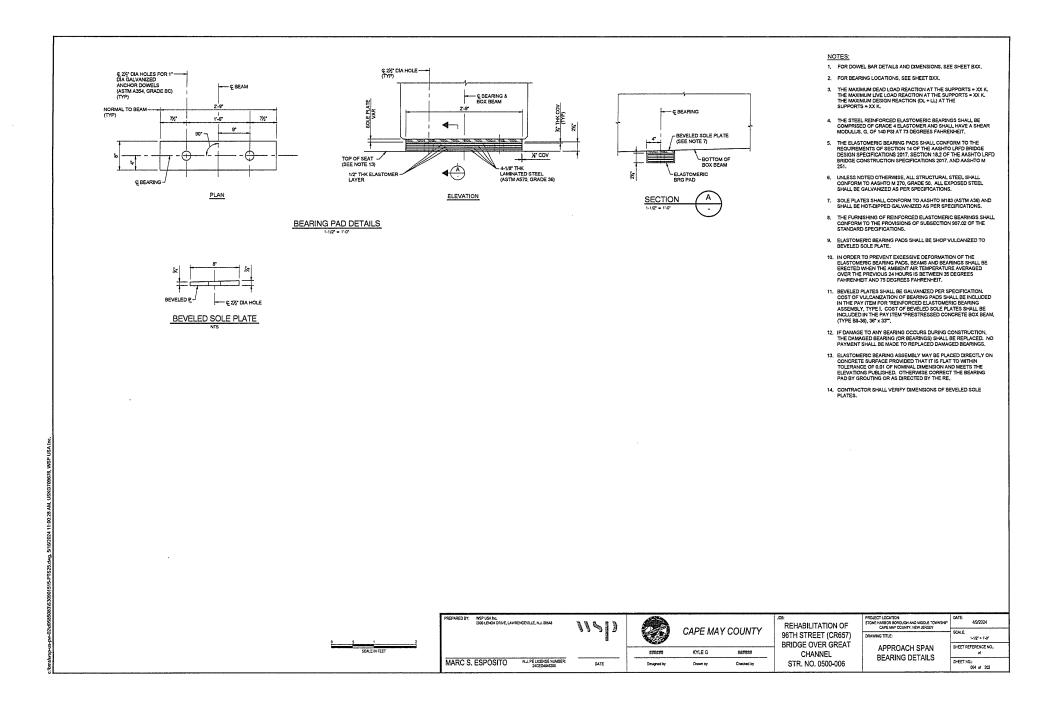


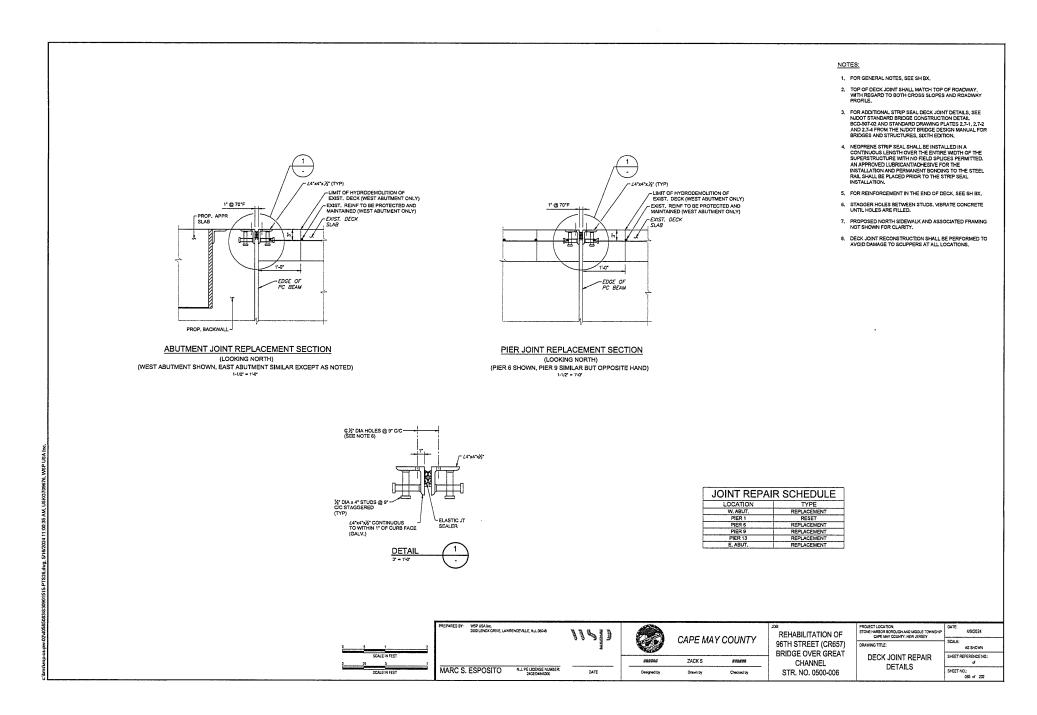


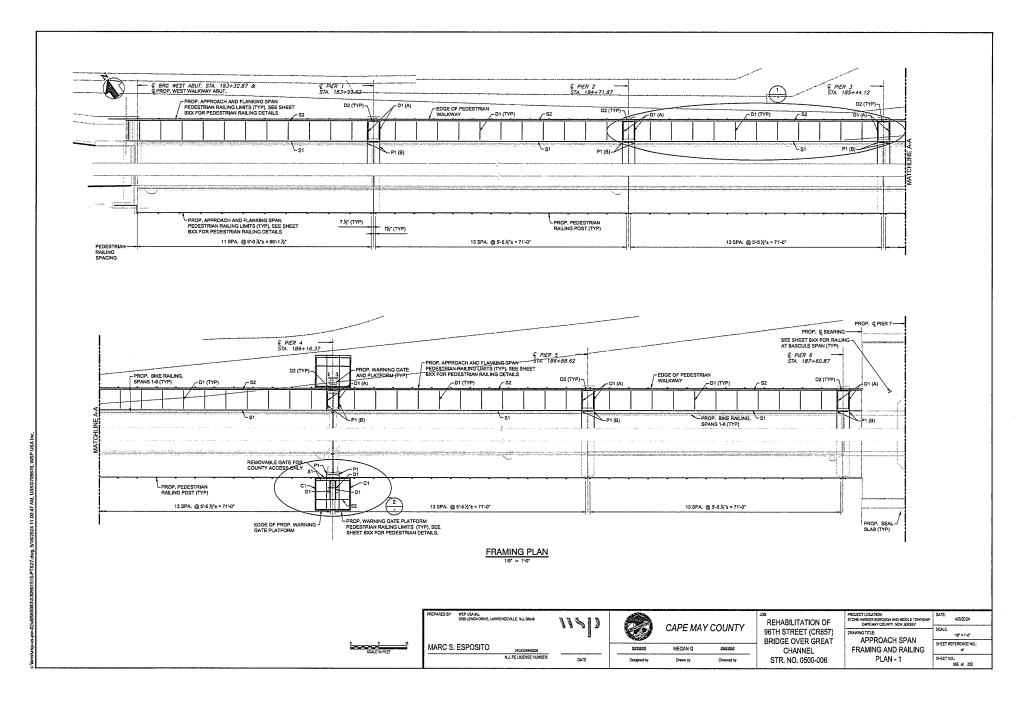


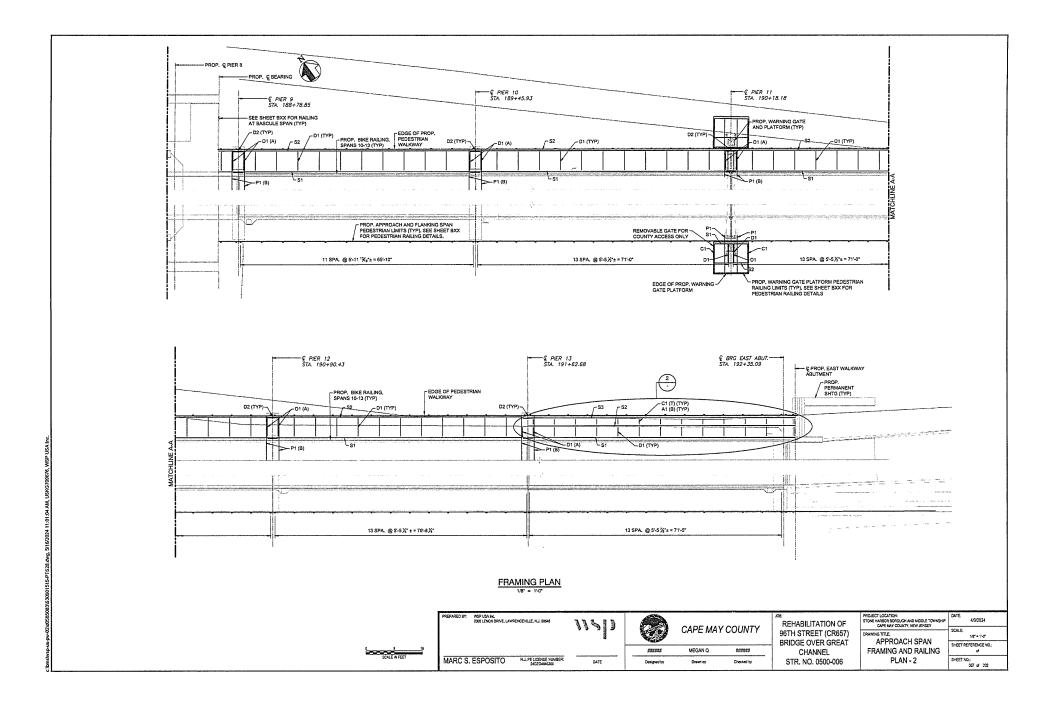


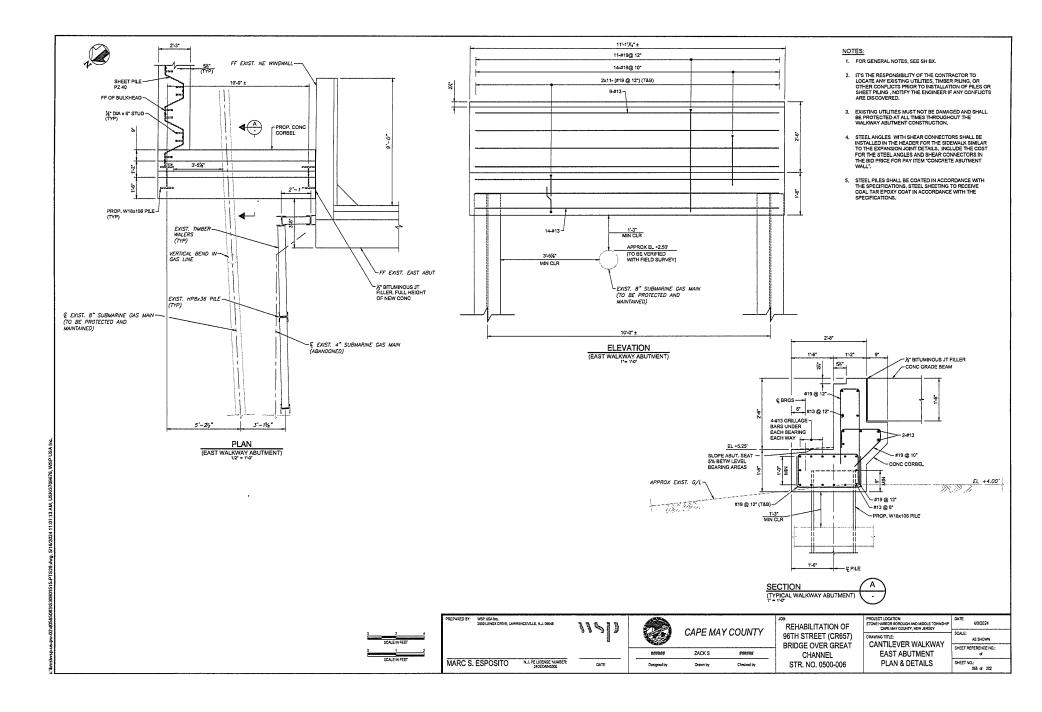
NOTES:

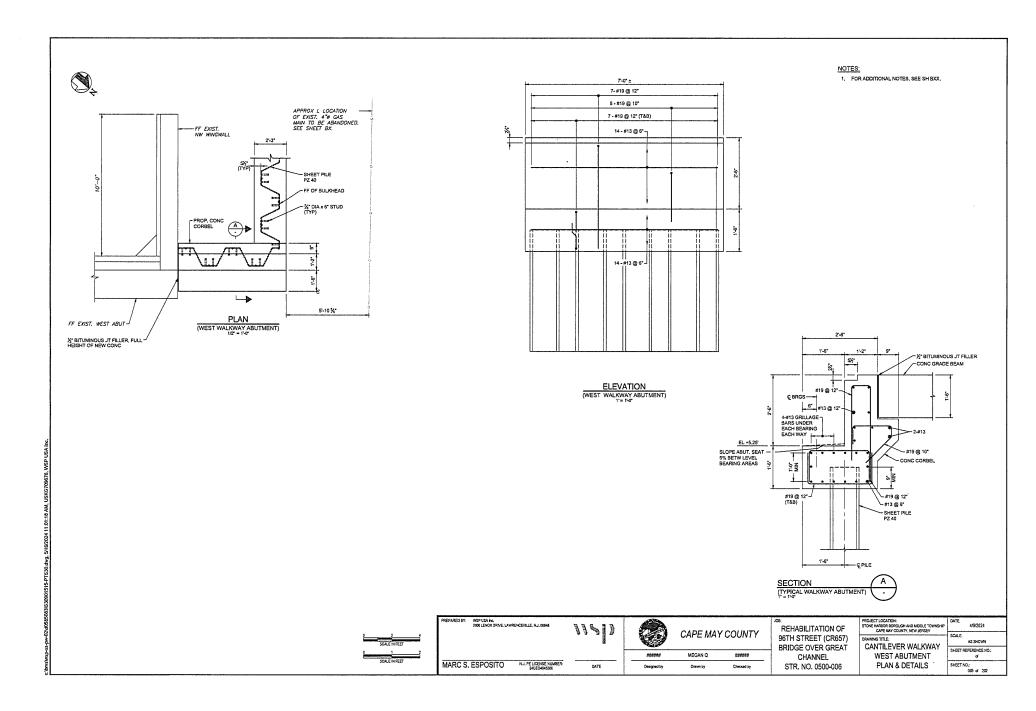


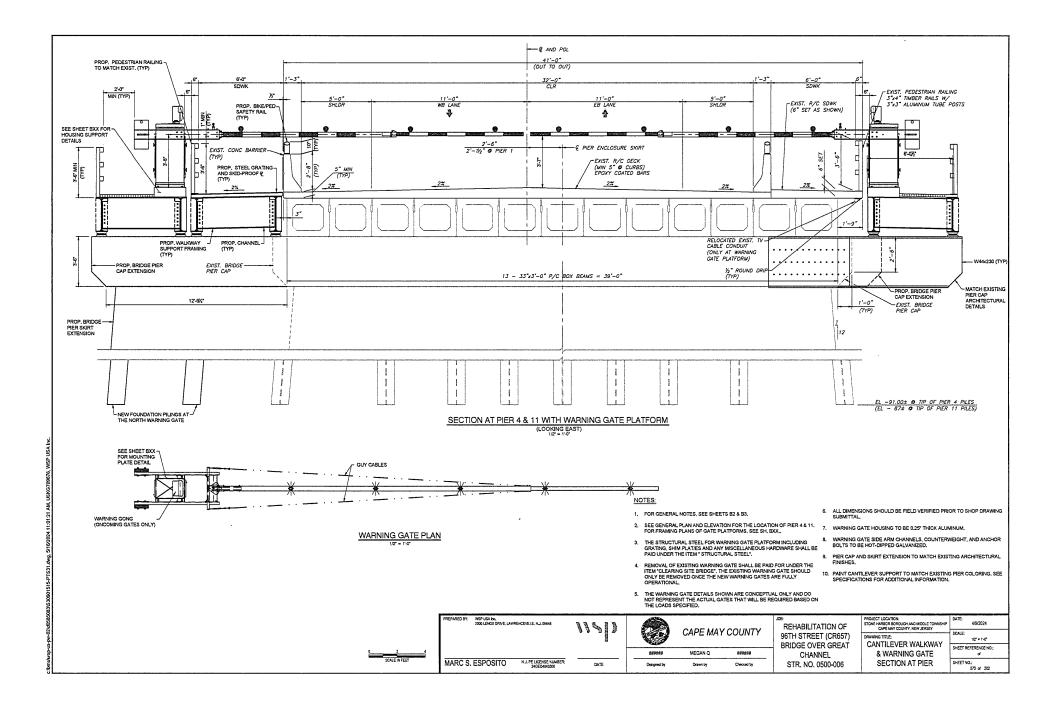


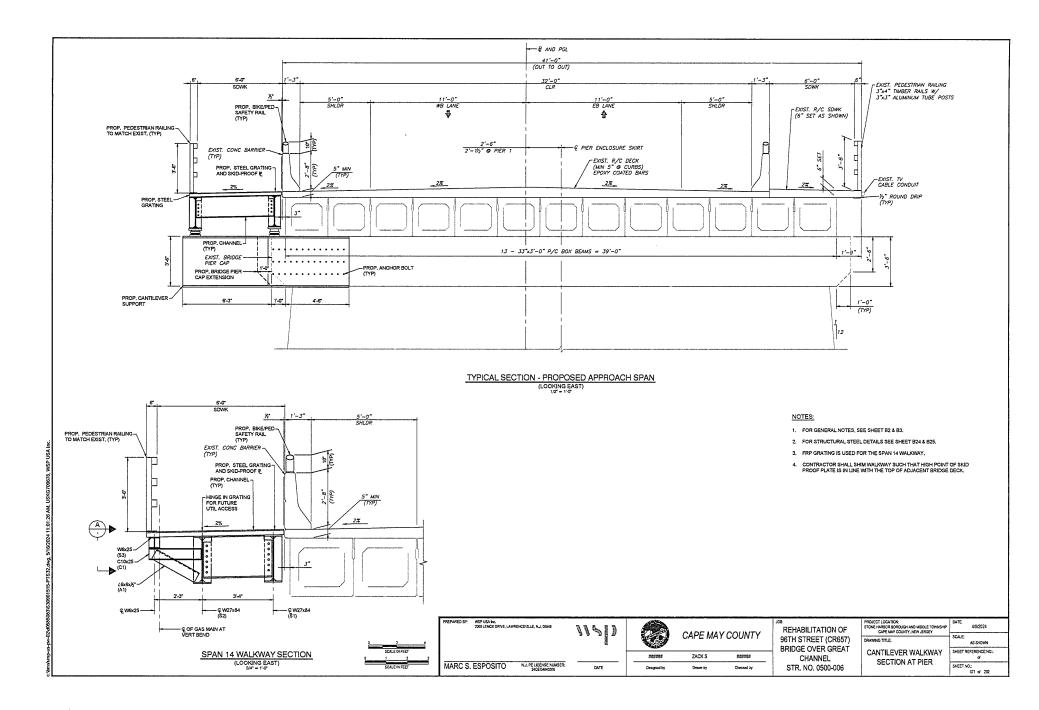


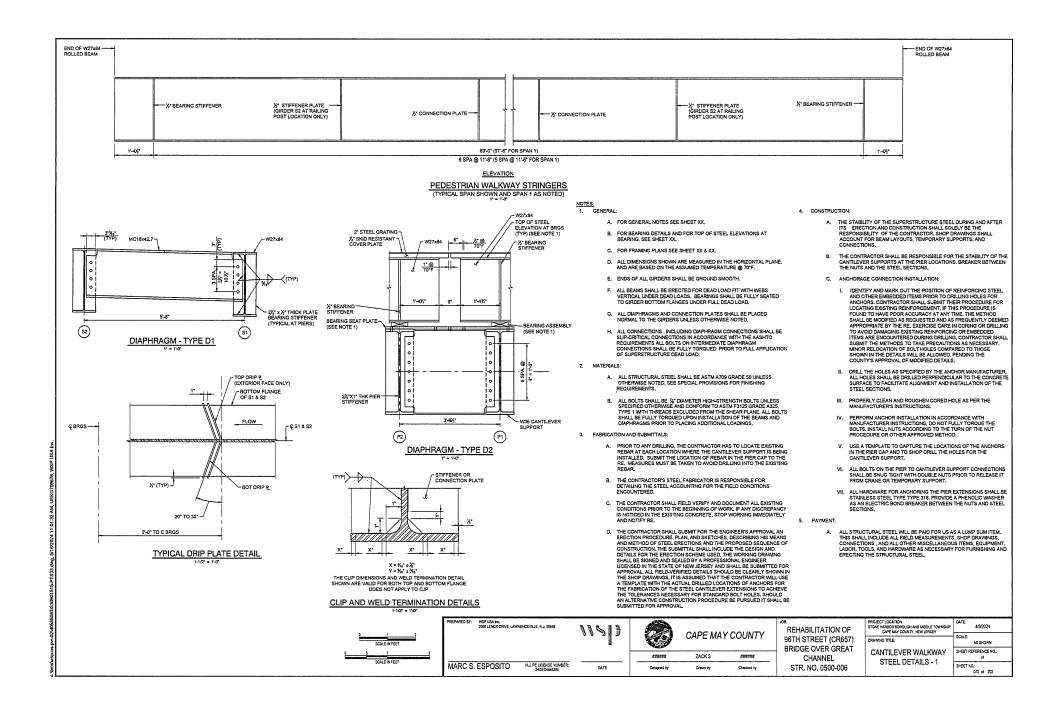


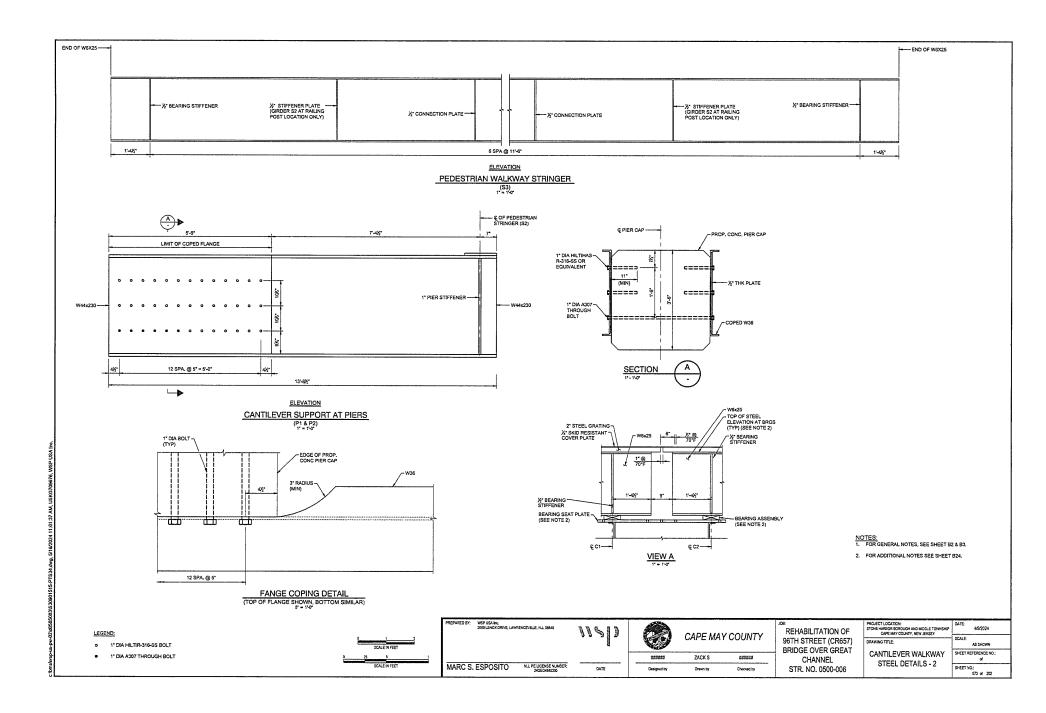


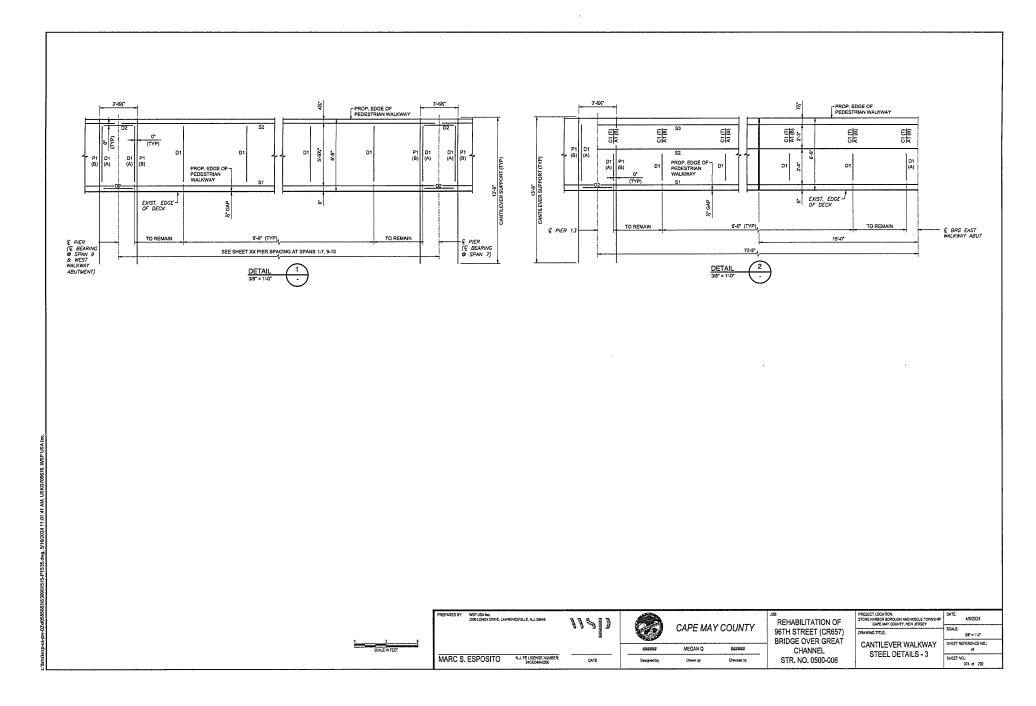


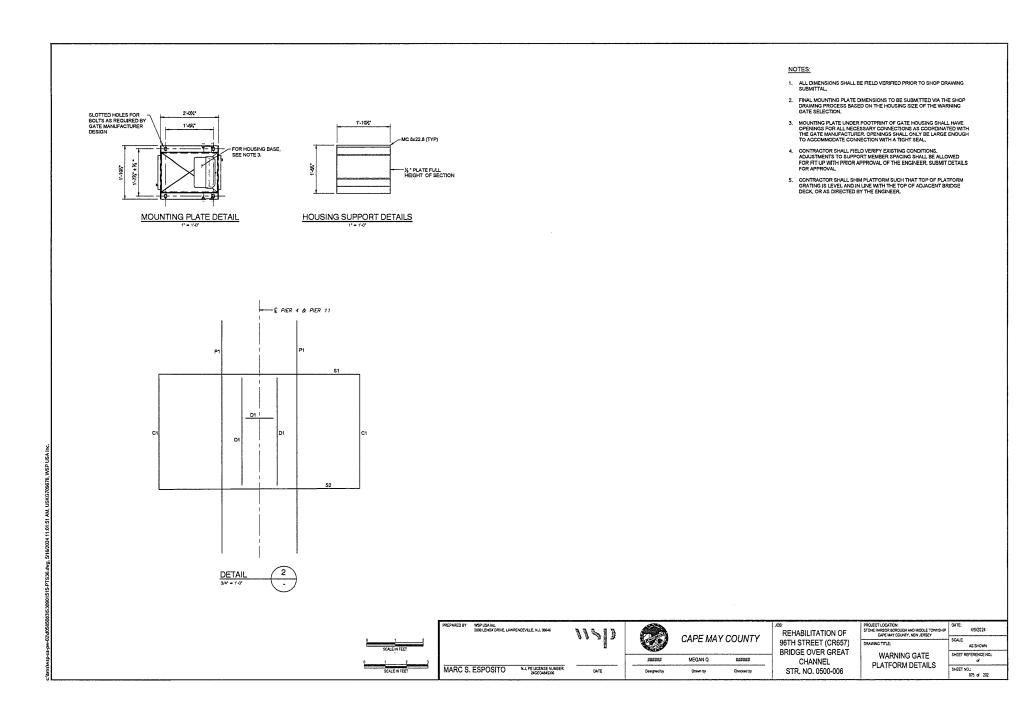


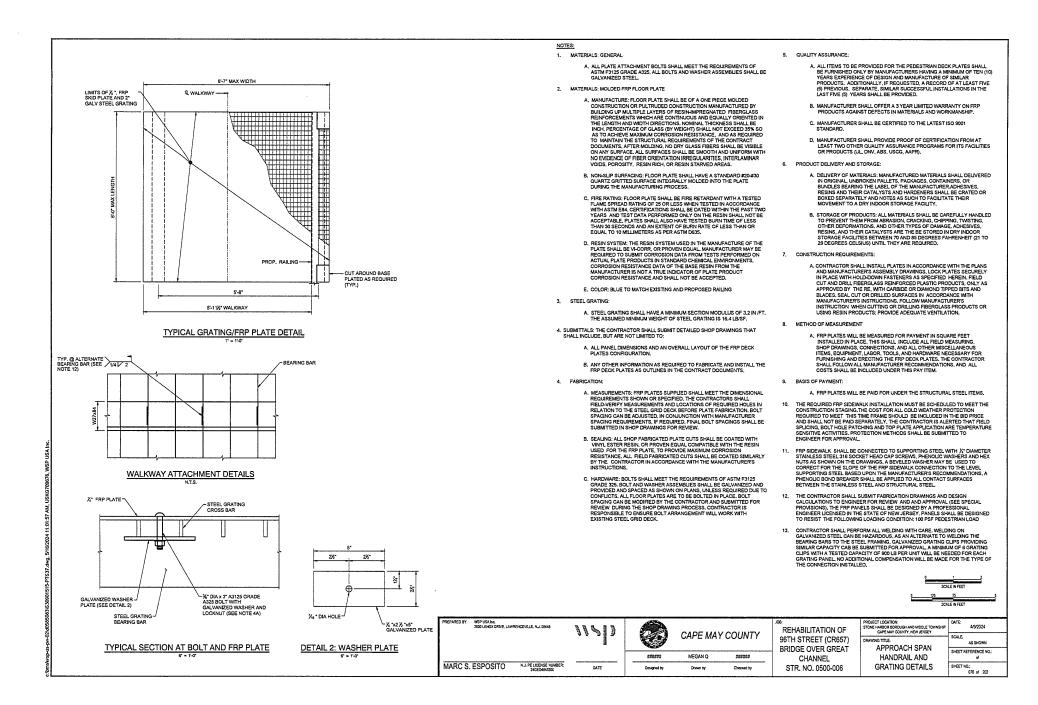


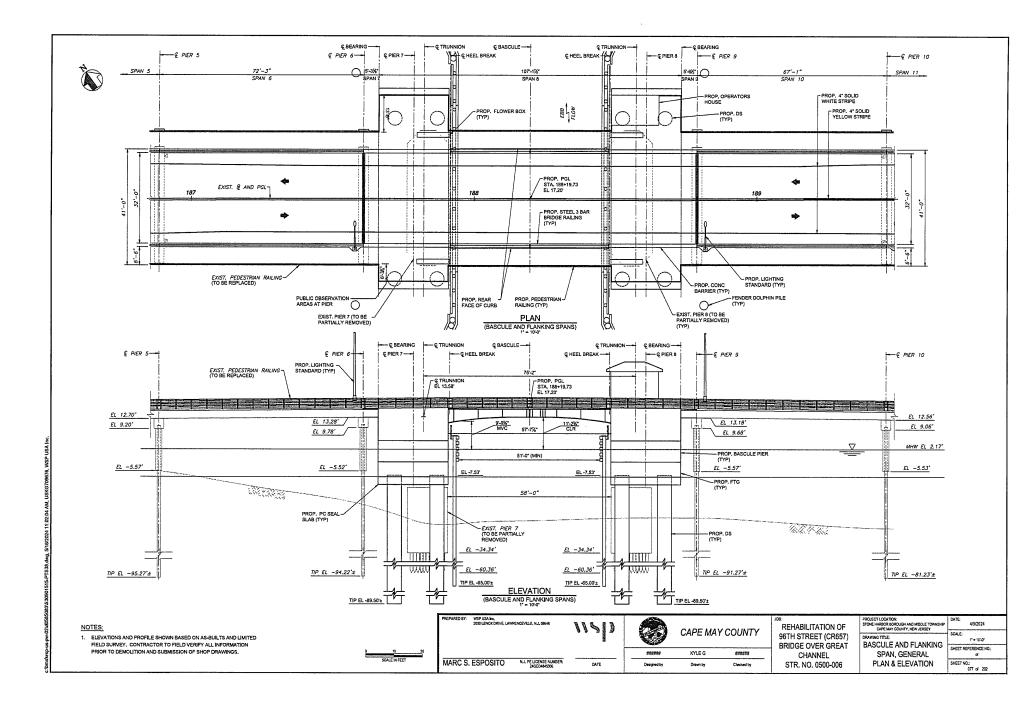


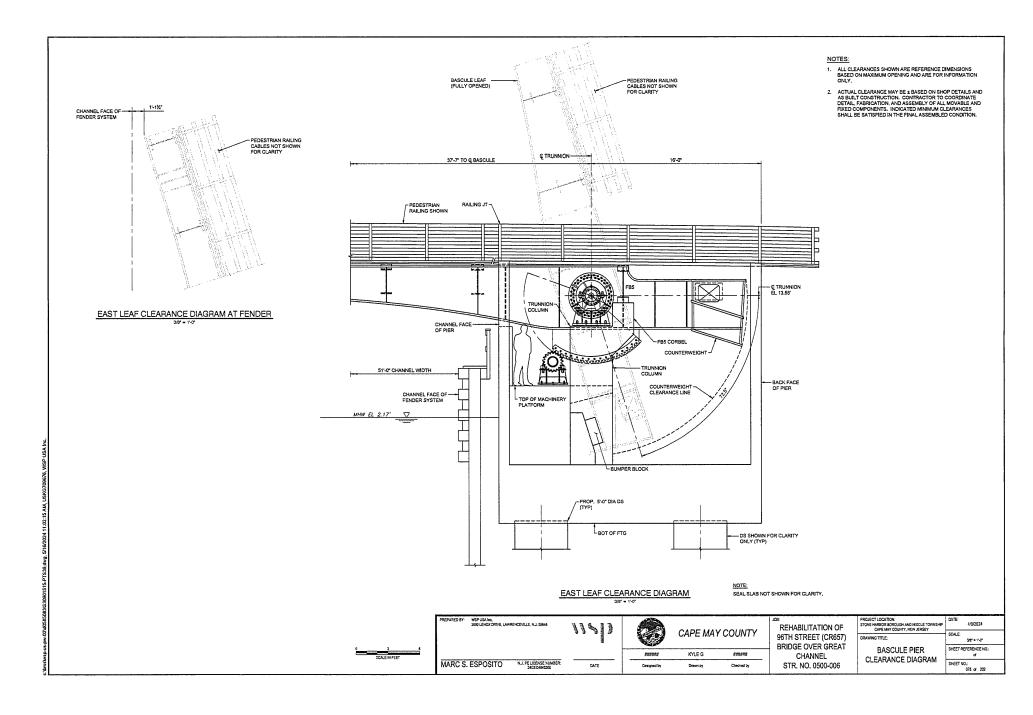


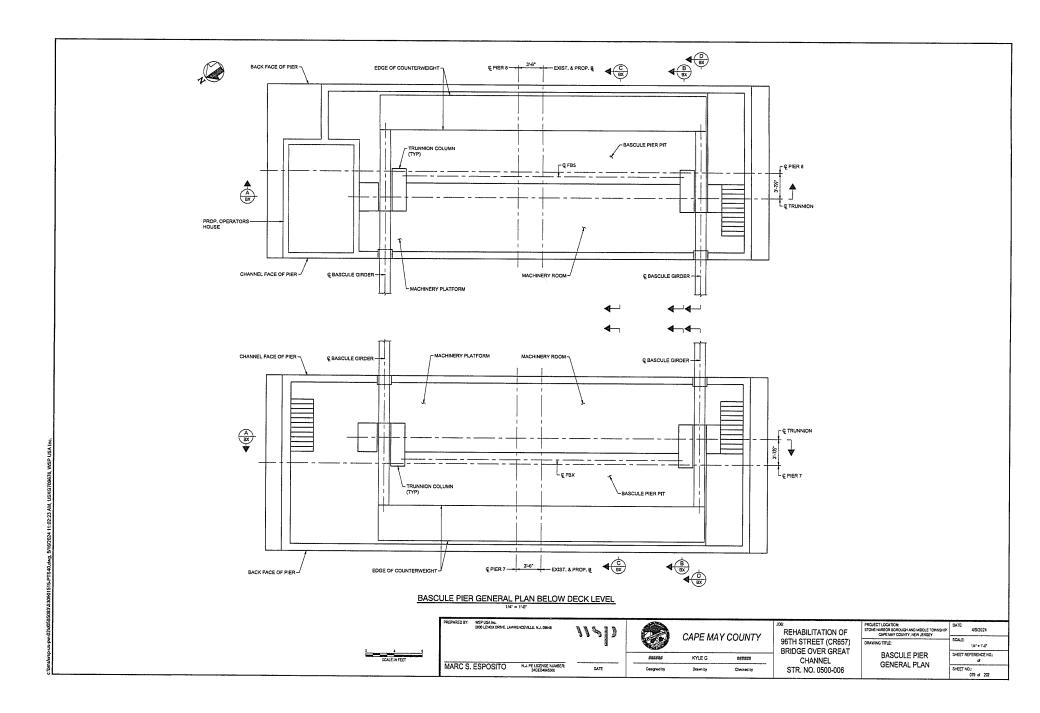


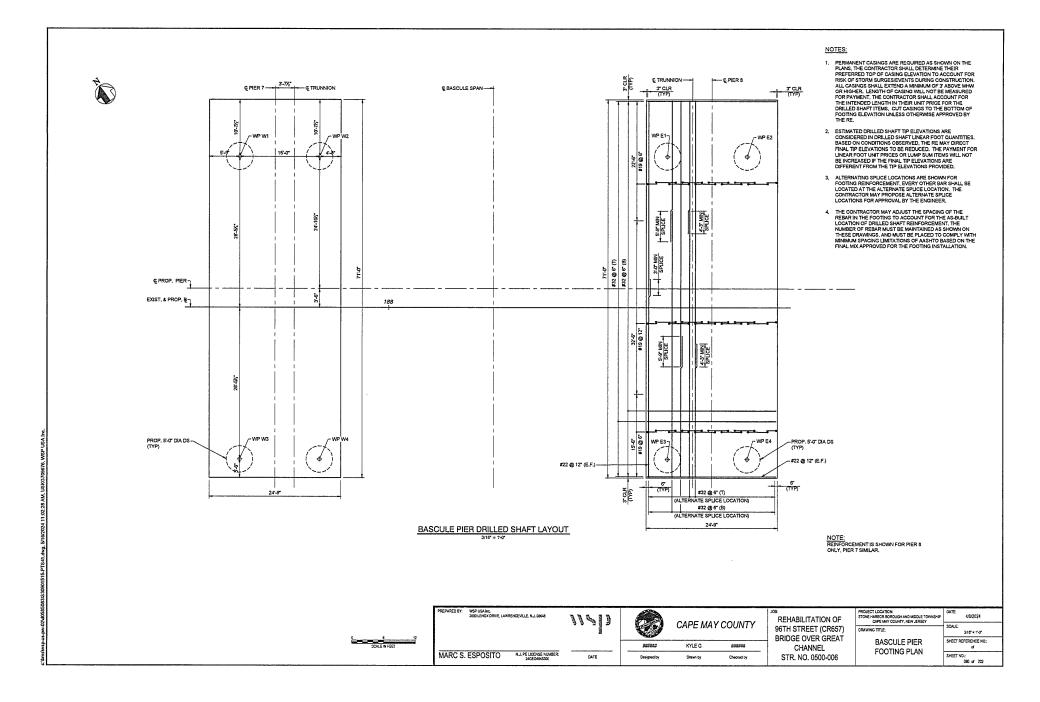


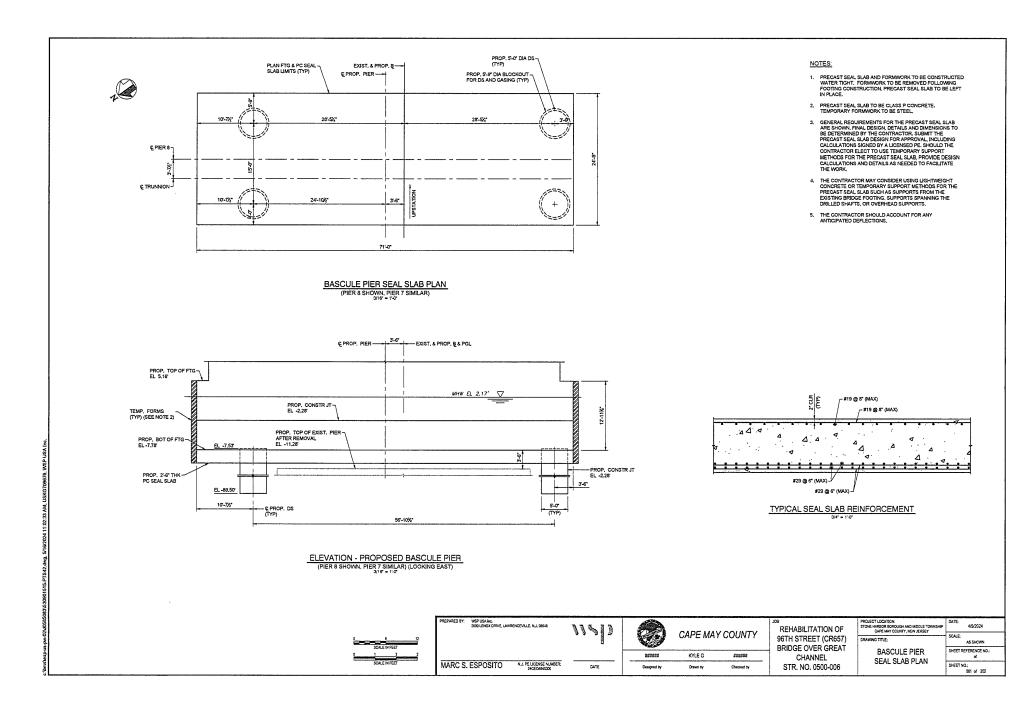


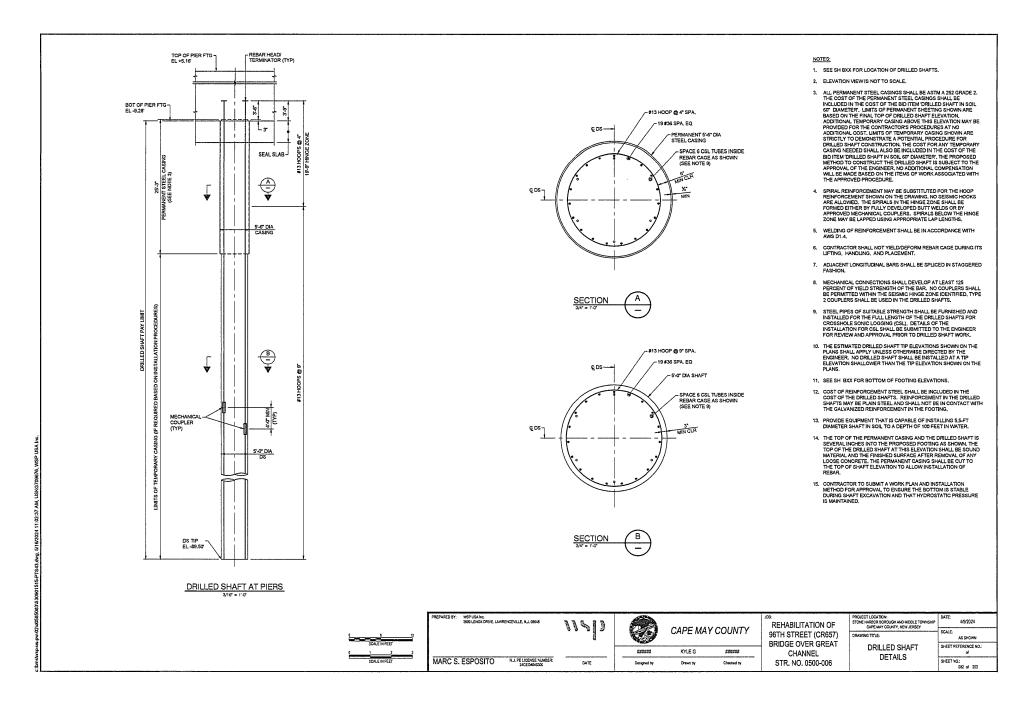


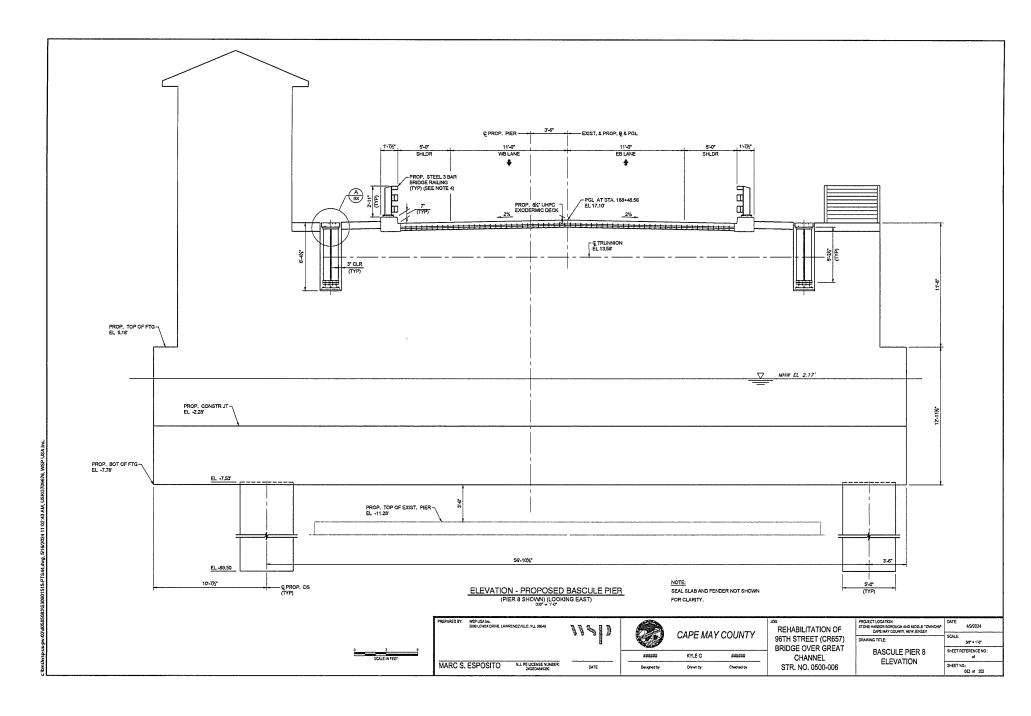




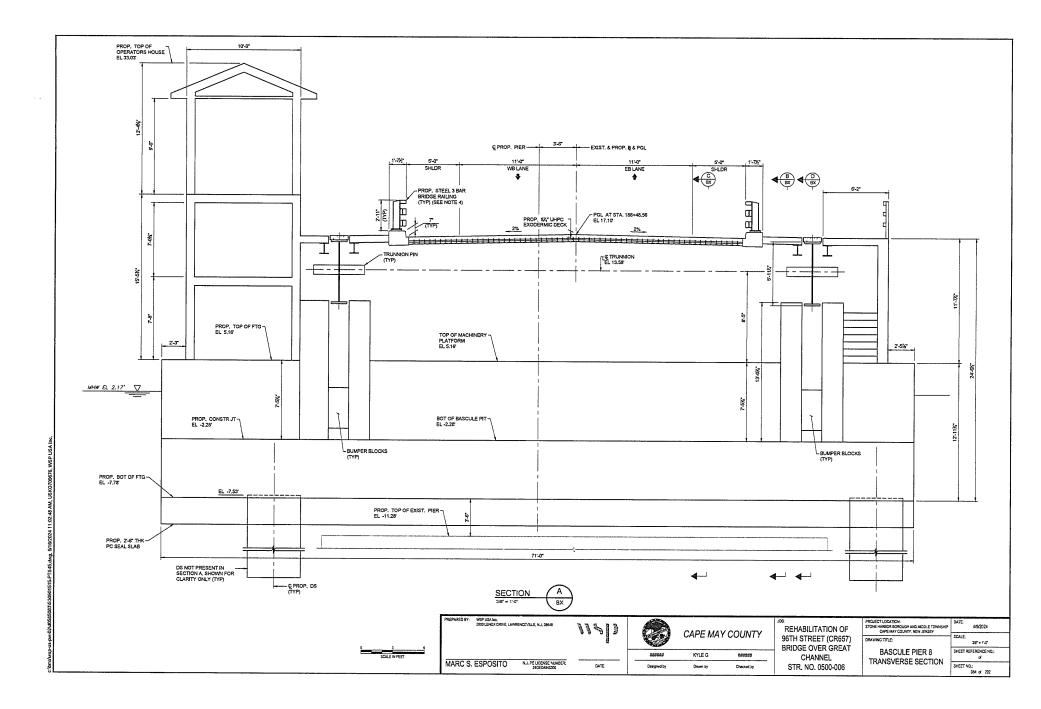


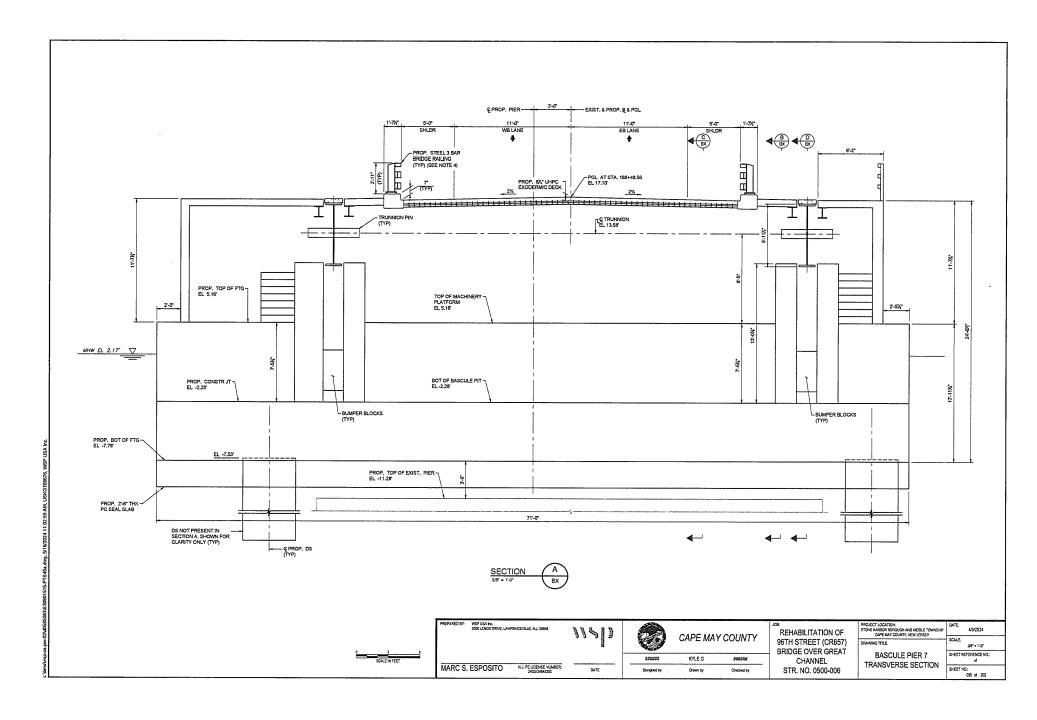


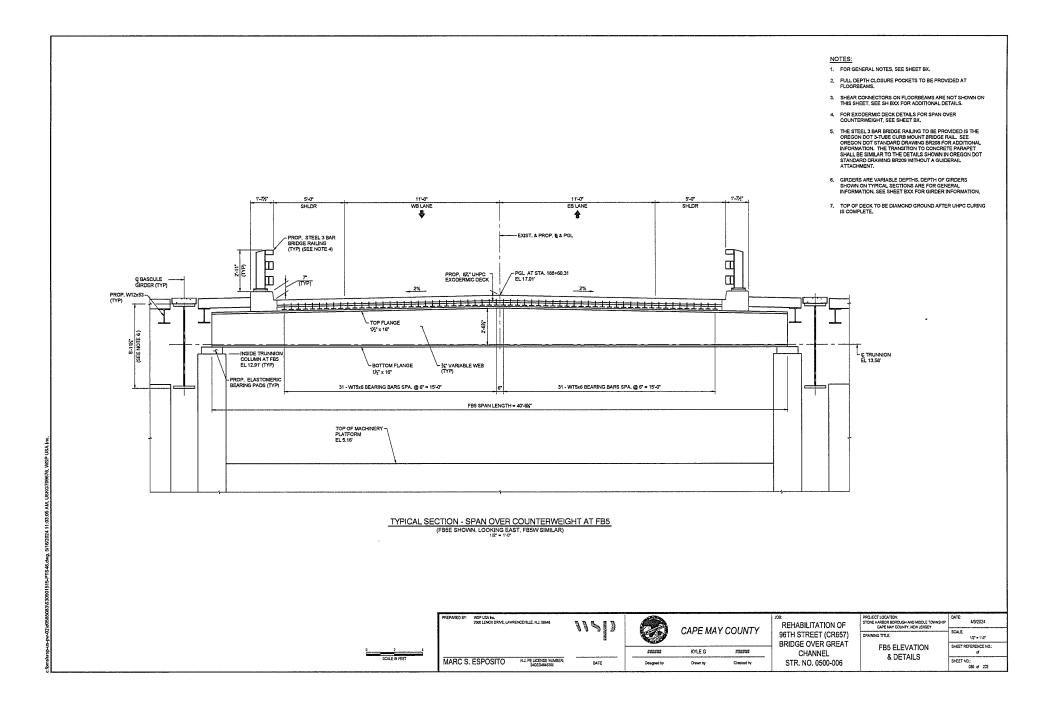


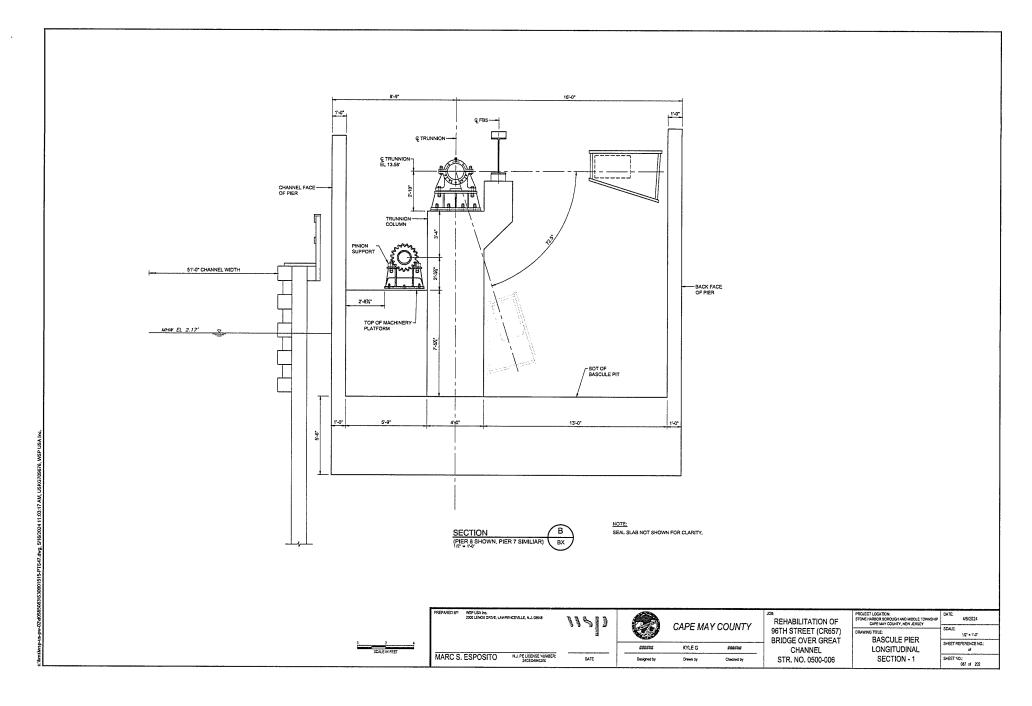


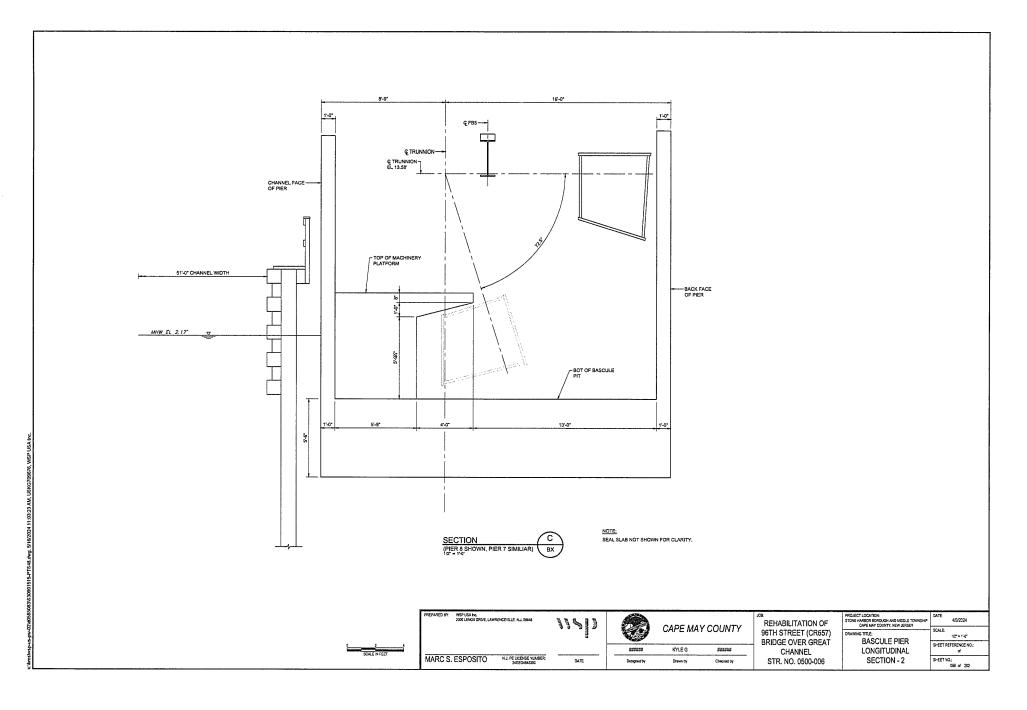
-

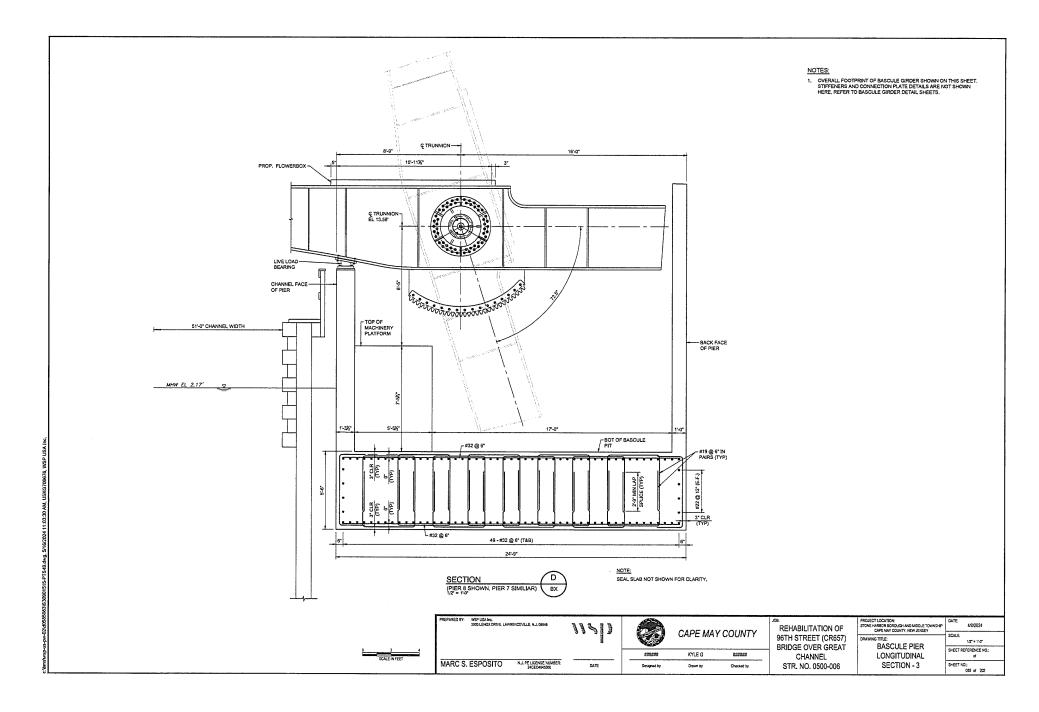












BASCULE SPAN ASSEMBLY NOTES:

GENERAL:

- DEVELOP AND IMPLEMENT PROCEDURES INCRESSART TO GETAIN SATISFACTORY ALIGNMENT. DEVELOP AND IMPLEMENT A SASCULE SPAN ASSCIENT WORK PLAN INCLUDING ALL INCRESSART TEMPORARY SUPPORTS. TE-PACKS, FALSEWORK, SHORING, JACKING, ETC., AND PROCODURES TO SAFELY PRECT THE BACKULE LEAVES. SUBMIT FOR APPROVAL THE SEQUENCE OF CONSTRUCTION OF THE SPAN AND METHODS EMPLOYED INCLUDING THE USE OF ANY TEMPORARY ELEMENTS IN REDED TO FACILITATE THE WORK PLAN. THE SUBMISSION MAY BE DEVELOPED AS THE CONTRACTOR DEEMS INCRESSARY TO CONNET THE PROCEDURES, A NARRATIVE, DEVENINGS, CATLOGUE CUTS, AND DESIGN FOR TEMPORARY ELEMENTS ARE ALL ANTICIPATED AS PART OF THE BASCULE SPAN ASSEMBLE'S WORK PLAN.
- REVIEW AND APPROVAL OF THE BASCULE SPAN ASSEMBLY WORK PLAN FOR COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF THE CONTRACT DOCUMENTS AND IS NOT A RELIEF OF RESPONSIBILITY FOR THE SATISFACTORY ALIGNMENT AND SAFE ERECTION OF THE BASCULE SPANS.
- PERFORM SHOP FABRICATION OF STRUCTURAL STEEL FOR THE BASCULE LEAVES IN ACCORDANCE WITH THE PROVISIONS STATED HEREIN, THE PLANS, APPROVED SHOP DRAWINGS, SECTIONS 506 AND 514 OF THE SPECIFICATIONS, AND AASHTOIANSI/AWS BRIDGE WELDING CODE D1.5.
- 4. BLSURE THE FABRICATION AND SHOP ASSEMBLY OF THE BASCILLE LEAVES IS PERFORMED AS ASHOP CENTIBEE FABRICATION UNDER THE ASSOLULITY CERTIFICATION PROGRAM AS MEETING THE REQUIREMENTS OF CATEGORY IIIF OR OBR MULOR REDGE]. FABRICATOR MULST DEMONSTRATE SUCCESSINUL FABRICATION AND ASSEMBLY OF TWO DOUBLE LEAVE BASCILLE BRIDGES IN THE PAST 10 YEARS WITH OWNERS LETTERS OF RECOMMENDATION SUBMIT EXPERIENCE FOR APPROVAL
- CONSTRUCTION WHICH REQUIRES CLOSURE OF THE SPAN TO VEHICULAR TRAFFIC MUST COMMENCE AFTER THANKSGIVING WEEKEND, AND TERMINATE PRIOR TO THE FOLLOWING MENORIAL DAY HOLDAY WEEKEND FOR EACH FEAR OF CONSTRUCTION, THE DURATION OF EACH VEHICULAR SHUTDIONN PERIOD IS LIMITED TO A MAXIMUM OF 90 CONSECUTIVE CALENDRA DIVAS AND IS SUBJECT TO APPROVAL BY THE COUNTY.
- ANY WORK TO BE PERFORMED USING SINGLE LANE CLOSURES SHALL BE PERFORMED USING NIGHT HOURS IF PERFORMED WITHIN THE PEAK SEASON UNLESS OTHERWISE APPROVED BY THE COUNTY. THE PEAK SEASON IS DEFINED IN THE PROJECT SPECIFICATIONS.

BASCULE SPAN SHOP ASSEMBLY:

GENERAL:

- ASSEMBLE THE BACULE SPAN (BOTH LEWES) IN THE SHOP INTS ENTRETY AND MATCH MARK FOR THE ASSEMBLY IN THE FIELD, SHOP ASSEMBLY THALLOSS GRIDERS, COUNTERNEIGHTS BOXES, FLOORBEAMS, FLOORBEAM BRACKETS, SPAN LOCK CONNECTIONS AND A THEMPLATE FOR VERIFYING SPAN LOCK ATTURP, EXODERING COECK, SIDEWALK BRACKETS, AND SIDEWALK, INCLUDE LATERAL BRACING IN THE SHOP ASSEMBLY, HOWEVER, USE UNDERSIZE BOLTS FOR FASTEMBLA UTERAL BRACING.
- 2. THE SHOP ASSEMULT INCLUDES THE PERMANENT INSTALLATION OF THE TRUNNION SHAFT, TRUNNION HUB AND TRUNNION RING ASSEMULT IN EACH GIRDER, ASSEMULE THE STEEL FOR EACH LEAF AFTER BOTH TRUNNION ASSEMULTS ARE SET TRUE. LEVEL AND COLINEAR WITE EACH OFTER FOR TRUNNION ASSEMULTS ARE STALLATION, IT IS REGURED THAT THE MOST INTERPORT TRUNK AND ASSEMULT INSTALLATION, IT IS REGURED THAT THE MOST INTERPORT TRUNK AND ASSEMULT INSTALLATION, IT IS REGURED THAT THE MOST INTERPORT TRUNK AND ASSEMULT INSTALLATION, IT IS REGURED THAT THE MOST INTERPORT AND ASSEMULT INSTALLATION, IT IS REGURED THAT THE MOST INTERPORT AND ASSEMULT INSTALLATION, IT IS REGURED TRUNKION MULTED AND DEPEND WITH ONE CONTINUOUS SET OF A COMBINED BORING BUR, MILLING MACHINE, HOWEVER, ALTERNATIVE PROCEDURES PROPOSED BY THE CONTRACTOR AND APPROVED BY THE COUNTY WOULD BE ACCEPTABLE.
- 3. THE SHOP ASSEMBLY SHALL RESULT IN BASCLLE GIRDERS THAT ARE STRAIGHT AND PARALLEL TO EACH OTHER FLOOREBANK SHORESTS, AND SIDEWAUK BRACKETS SHALL BE FERPENDICULAR TO THE GIRDERS, WEBS OF GIRDERS SHALL BE VERTICAL, WEBS OF FLOOREBANKS AND FLOOREBANK BRACHTS SHALL BE PERPENDICULAR TO THE GIRDER FLANGES, ALL MEMBERS SHALL BE CAMBERED TO THE APPROVED VALUES.
- 4. THE BASCULE SPAN INSTALLATION AND SHOP ASSEMBLY IS SUBJECT TO STRICT TOLERANCE REGUREMENTS AS SPECIFIED THROUGHOUT THE CONTRACT FLANS AND SPECIAL PROVIDENCS. ANY EVENTTOH THESE TOLERANCES IN THE ASSULT THE CAUSE FOR RELECTION OF THE NON-CONFORMING ELEMENT(3), SHOULD REPLACEMENT BE NEEDED OF ANY ELEMENT TO ACCOMMODATE THE PROPER FIT OR ALIGNMENT OF THE BASCULE SPAN, IT SHALL BE REPLACED AT NO ADDITIONAL COST TO THE COUNTY.

BASCULE SPAN FIELD ERECTION:

6.

ASSEMBLY AND ERECTION CONCEPTS:

- 1. PROVIDE FOR THE STABILITY OF THE SPAN DURING ALL PHASES OF ERECTION AND CONSTRUCTION.
- THERE SHALL BE NO SEPARATE PAYMENT FOR THE "EMPORANCE SUPPORTS. TELEFORMER BRACINE, TEMPORARY LITTING ECUMPRET FOR THE TEMPORARY SLALANCE MATERIAL REQUIRED THROUGHOUT THE CONSTITUCION FOR INSTALLATION, STABILITY, OR ANY OTHER TEMPORARY NEED, COST FOR DESIGN, INSTALLATION AND REMOVAL SHALL BE INCLUDED IN THE VARIOUS BID ITEMS INCLUDED IN THE CONTRACT DOCUMENTS.
- RETAIN A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW LERSEY TO DESIGN ALL TEMPORARY SHORING, BRACING, SUPPORTS, FALSEWORK, JACCING, TEACKS, DR. AW OTHER TEMPORARY PROVISION TO ALLOW FOR CONSTRUCTION OF THE BASCULE SPAN, SUBMT ALL CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 4. THE ERECTION OF THE STRUCTURAL STEEL FRAMING SHALL BE PERFORMED WITH MATCHANKS ESTABLISHED DURING SHOP ASSEMBLY SUCH THAT THE RELATIVE POSITION OF CONNECTED COMPONENTS WILL BE TO THE ASSEMBLED CONFIGURATION ESTABLISHED IN THE SHOP AT THE TIME OF COMPLETE STRUCTURE ASSEMBLY.
- FOR THE BASCULE SPAN ERECTION, THE CONTRACTOR HAS THE OPTION TO EITHER COMPLETELY ERECT EACH LEAF IN POSITION OR HAVE EACH LEAF DELIVERED TO THE SITE PARTIALLY OR FULLY ASSEMBLED.
- THE CONTRACTOR SHALL SUBMIT DETAILS THAT DESCRIBE THE PROPOSED PROCEDURE, INCLUDING COMPLETE DETAILS AND CALCULATIONS FOR THE PROPOSED SUPPORTS AND RECURED LETING OPERATIONS DURING AL PHASES OF THE WORK, INCLUDING OFF-SITE ERECTION, SHPMENT TO THE SITE, AND LIFTING INTO FLACE TO THE ENKINEE FOR REVLEW PRORT OT THE STAT OF ERECTION, PROPOSED JUTING POINTS ARE TO BE IDENTIFIED, ALL PROCEDURES AND CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL EXAMINED.
- OTHER THAN THE TRUNNION ASSEMBLIES, MECHANICAL AND ELECTRICAL COMPONENTS TO BE LOCATED ON THE SPANS SHALL NOT BE MOLINED TO THE PARTALLY OR FULLY ASSEMBLED SPAN DURING SHIPMENT. BEARDINGS AND THEIR HOUSINGS SHOULD BE INSTALLED ON THE TRUNNION SHAFTS IN THE FIELD PRIOR TO ERECTION OF THE BASCULE GROERS.
- PRIOR TO ANY CLOSING OR RESTRICTION OF THE NAVIGATION CHANNEL, AND PRIOR TO THE START OF ANY WORK, THE CONTRACTOR MUST OBTAIN THE APPROVAL OF THE USCG.
- 9. THE FIELD ERECTION SHALL RESULT IN BASCULE GIRDERS THAT ARE STRUCT AND PARALLEL TO SCH-OHRER, EL CONREGMES TAOLORIEMS BASCHT, AND SIGNAL BRACKETS SHALL BE FERPENDICULAR TO THE CIRCIERS, WEBS OF GIRDERS SHALL BE VERTICAL, WEBS OF FLOREMEAR AND FLOREMER BRACKETS SHALL BE PERPENDICULAR TO THE GIRDER FLANGES, ALL MEMBERS SHALL BE CAMBERED TO THE APPROVED VALUES.
- 10. CONTINUOUSLY MONITOR AND RECORD TRUNNION AND GIRDER ALIGNMENTS AND ATTITUDE DURING THE SEQUENCE OF ERECTION.
- GENERALLY, FULL MAKEUP AND TIGHTENING OF CONVECTIONS IS TO PROGRESS IN THE SAME MANNER AS ERECTION OF THE FRAMING AND IN ACCORDANCE WITH THE APPROVED BASCULE SPAN ASSEMBLY WORK PLAN.
- 12. TEMPERATURE: CLOSING OF SPAN FOR VERIFICATION OF ALIGNMENT SHOULD BE ACCOMPUSHED IN THE EARLY MORNING IMMEDIATELY FOLLOWING SUNRISE TO AVOID TEMPERATURE EFFECTS.
- 13. MAINTAIN A COUNTERMEIGHT HEAVY CONDITION AT ALL TIMES DURING ERECTION. ADJUST THE BALANCE AFTER THE ERECTIONIS COMPLETE IN ACCORDANCE WITH THE APPROVED BASCULE SPAN ASSEMBLY WORK PLAN. COMMENCE LOADING OF FINAL STEEL COUNTERWEIGHT BALLAST ONLY AFTER ERECTION AND COMPLETION OF THE ASSEMBLY OF THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN ACCORDING IN THE BASCULE CIRCERS AND ALL MAIN AND SECONDARY MEMBERS BETWEEN ACCORD AS AND ALL MAIN AND SECONDARY MEMBERS AND ADDITION AND ALL MAIN AND ASSEMBLY AND ALL MAIN AND SECONDARY MEMBERS BETWEEN ADDITION AND ADDITION AND ASSEMBLY AND ADDITION ADDITION AND THE BALAST CACHING IN THE BASCULE AND ADDITION AND ADDITION AND THE TIME THAT BALAST CACHING IN MEMBERS AND ALL MAIN AND ADDITION AT THE TIME THAT BALAST CACHING IN A ADDITION A
- COMMENCE ERECTION OF EXODERMIC PANELS ON THE LEAVES ONLY AFTER INSTALLATION OF STEEL COUNTERWEIGHT BALLAST IN THE COUNTERWEIGHT; THE INTENT OF THIS PROVISION IS TO BRING EACH LEAF INTO A COUNTERWEIGHT HEAVY CONDITION PRIOR TO ERECTION OF THE GRID FLOORING.
- 15. A LAND SURVEYOR LICENSED IN THE STATE OF NEW LERSEY SHALL PERFORM ALL SURVEY WORK REGULTED FOR BASCULE SPAN ERECTION. THE DEGREE OF ACUTACY OF THE WORK SHALL BE FIRST ORDER. A WRITTEN PROCESURE FOR OBTAINING FIRST OFICER ACUTACY SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PROTOT THE STATY OF ANY SURVEY WORK AN IMPORTANT ASPECT OF THE SURVEY IS PROTER POSITION. SOUTH AURIES DOLL THAT WHEN IT LOWERED IT SEATS IN THE PROTER POSITION.

16. THE BASCULE LEAVES SHALL BE SURVEYED TO VERITY SPAN GEOMETRY, BASCULE GROERS MUST BE IN-UNE AND PARALLE. MEASUREMENTS SHALL BE TAKEN ARGOSS THE CHANNEL AND SHALL BE BASC OCHECKED BY MEASURING THE DAGONAL SPAN DIMENSIONS, MEASUREMENTS TAKEN TO VERITY SPAN GEOMETRY SHALL BE SUBMITED TO THE ENGINEER FOR REVIEW PROR TO FINAL DRULING OF THE TRUNNON BEARING MOUNTING BOLTS. THE BASCULE SPAN ERECTION IS SUBJECT TO STRUCT DERANCE REQUIREMENTS AS SPECIFIED THROUGHOUT THE CONTRACT FUNIS AND SPECIAL PROVISIONS, ANY DEVANTON RROM THESE TOLERANCES IN THE ASSULT CONTONS ON-SITE MAY BE THE CAUSE FOR REJECTION OF THE NON-CONFORMING ELEMENT(S). SHOULD REPLACEMENT BE KEEDED OF ANY ELEMENT TO ACCOMPORTING ELEMENT(S). SHOULD REPLACEMENT BE KEEDED OF ANY ELEMENT TO ACCOMPORTING ELEMENT(S). SHOULD REPLACEMENT BE KEEDED OF ANY ELEMENT TO ACCOMMODATE THE ROPER FIT OR ALIGNMENT OF THE BASCULE SPAN, IT'S HALL BE REPLACED AT NO ADOITIONAL COSIT TO PHE COUNTY.

ASSUMED CONSTRUCTION SEQUENCE:

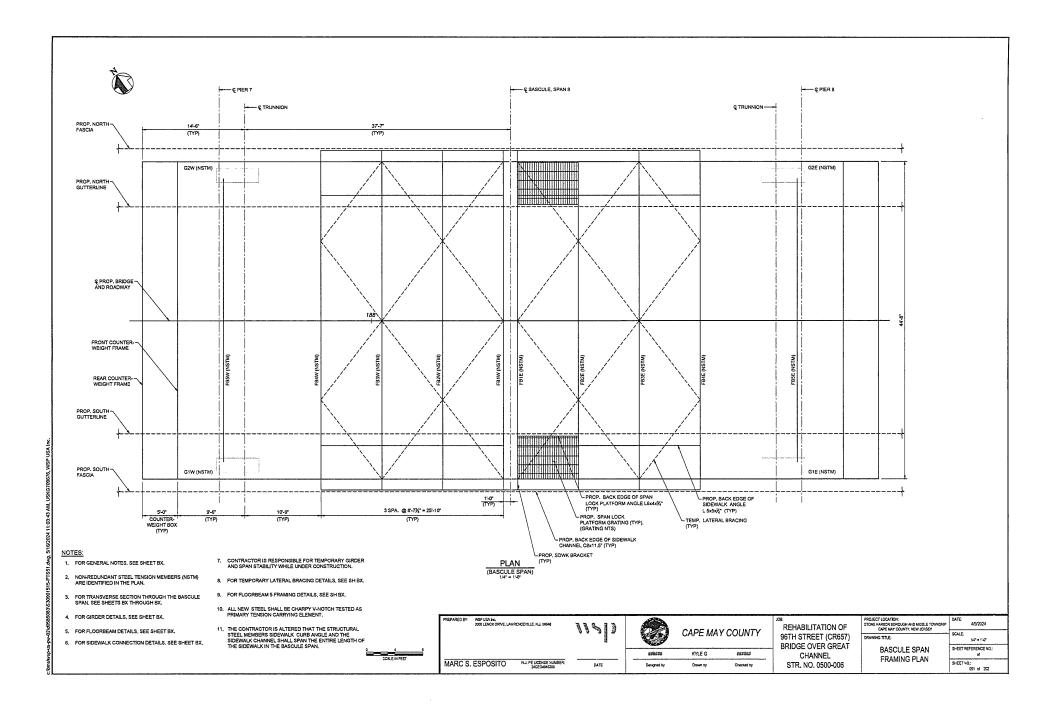
- 1. INSTALL COUNTERWEIGHT PIT SHORING SYSTEM.
- 2. ERECT FIRST LEAF'S BASCULE GIRDERS. THE CONTRACTOR SHALL PROPOSE WHICH LEAF TO BE ERECTED FIRST IN THE BASCULE SPAN ASSEMBLY WORK PLAN.
- 3. INSTALL COUNTERWEIGHT STEEL FRAMING.
- 4. INSTALL COUNTERWEIGHT BALLAST TO THE EXTENT NECESSARY TO MAINTAIN A COUNTERWEIGHT HEAVY CONDITION DURING INSTALLATION OF THE REMAINING STEEL FRAMING, THE REACTION FORCE AT THE COUNTERWEIGHT SHOULD BE APPROXIMATELY 8 KIPS FOLLOWING FRAMING INSTALLATION.
- INSTALL REMAINDER OF THE BASCULE SPAN FRAMING INCLUDING FLOORBEAMS AND SIDEWALK BRACKETS.
- INSTALL COUNTERWEIGHT BALLAST TO THE EXTENT NECESSARY TO MAINTAIN A COUNTERWEIGHT HEAVY CONDITION DURING INSTALLATION OF THE BASCULE SPAN DECK AND SIDEWALK GRATING/SIGL/PROOP PLATES.
- 7. INSTALL EXODERMIC DECK PANELS AND ALL CLOSURE POURS.
- 8. INSTALL SIDEWALK GRATING/SKID PROOF PLATES.
- AFTER A MINIMUM OF THREE DAYS AND THE CLOSURE POURS HAVE ACHIEVED A STRENGTH OF 14 KSI, ERECTION MAY CONTINUE.
- UTILIZING A CRANE OR OTHER MEANS DESIGNED BY THE CONTRACTOR, RAISE THE LEAF INTO THE FULLY OPEN POSITION AND THE BACK AND SECURE THE LEAF. NO HOLES MAY BE DRILLED INTO ANY PERMANENT ELEMENTS FOR THE LEAF-RAISING OR TIE-BACK ELEMENTS.
- 11. REPEAT STEPS FOR THE SECOND LEAF.

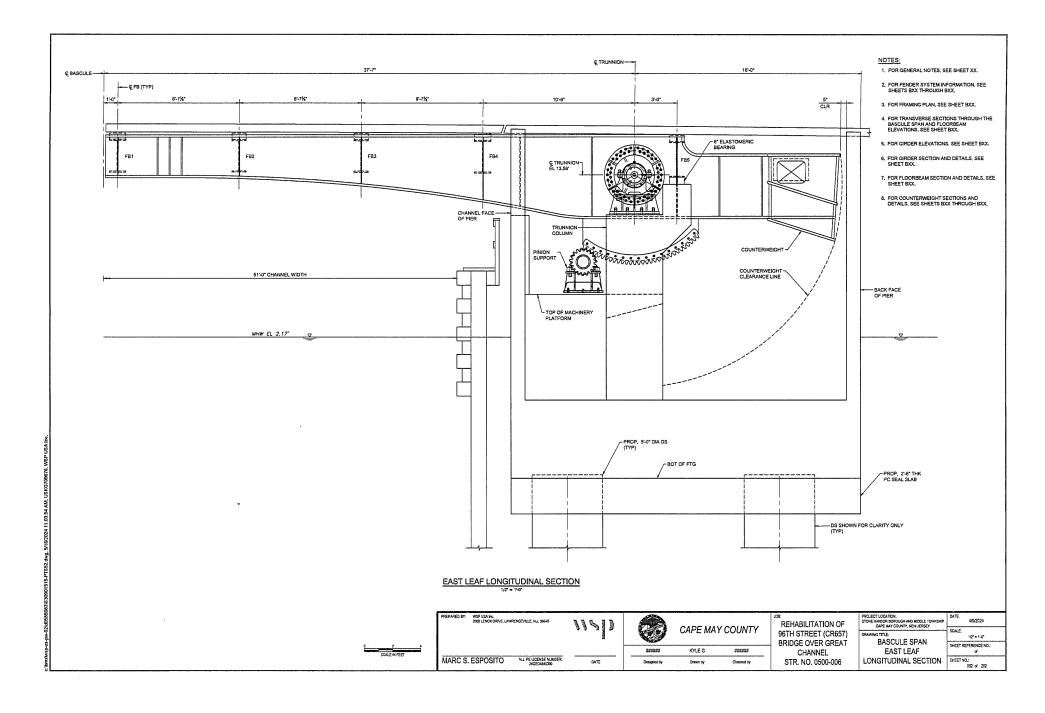
NOTE: IT IS ANTICIPATED THAT THE SPAN WILL BE ERECTED IN THE LOWERED POSITION, SHOULD AN ALTERNATE POSITION FOR ERECTION BE PROPOSED. THE CONTRACTOR SHALL VERIFY THE ADEQUACY OF CONNECTIONS BASED ON THE SEQUENCE OF INSTALLATION AND PROVIDE ANY ADDITIONAL CAPACITY NEEDED TO SUCCESSFULLY COMPLETE THE REPECTION SEQUENCE.

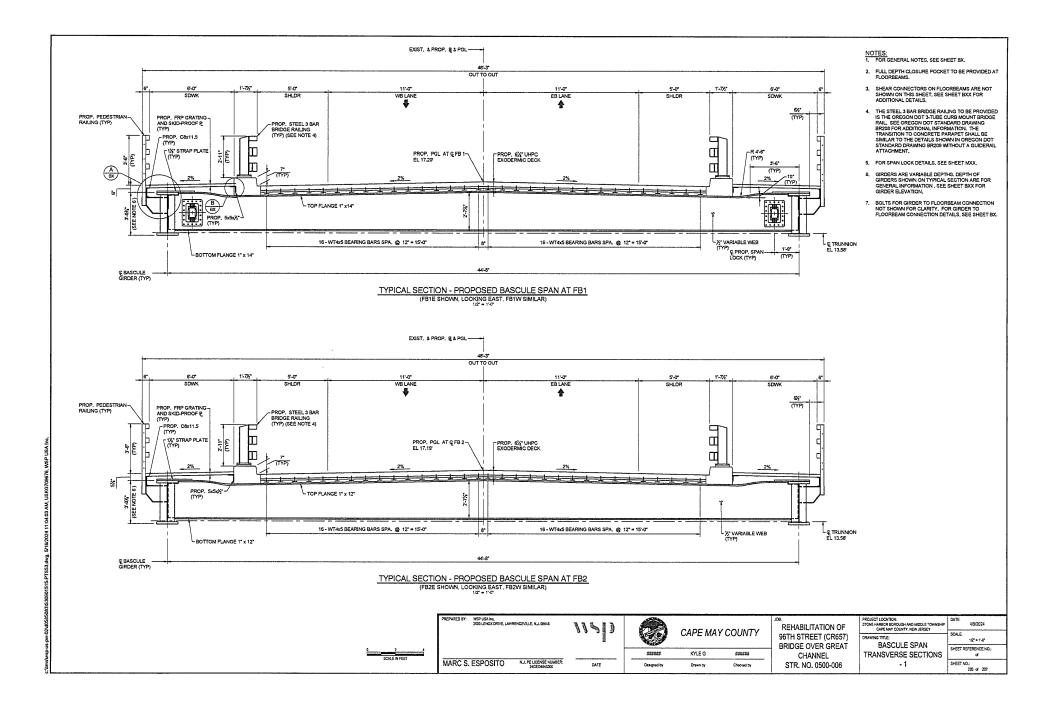
RACK ALIGNMENT NOTES AND PROCEDURES:

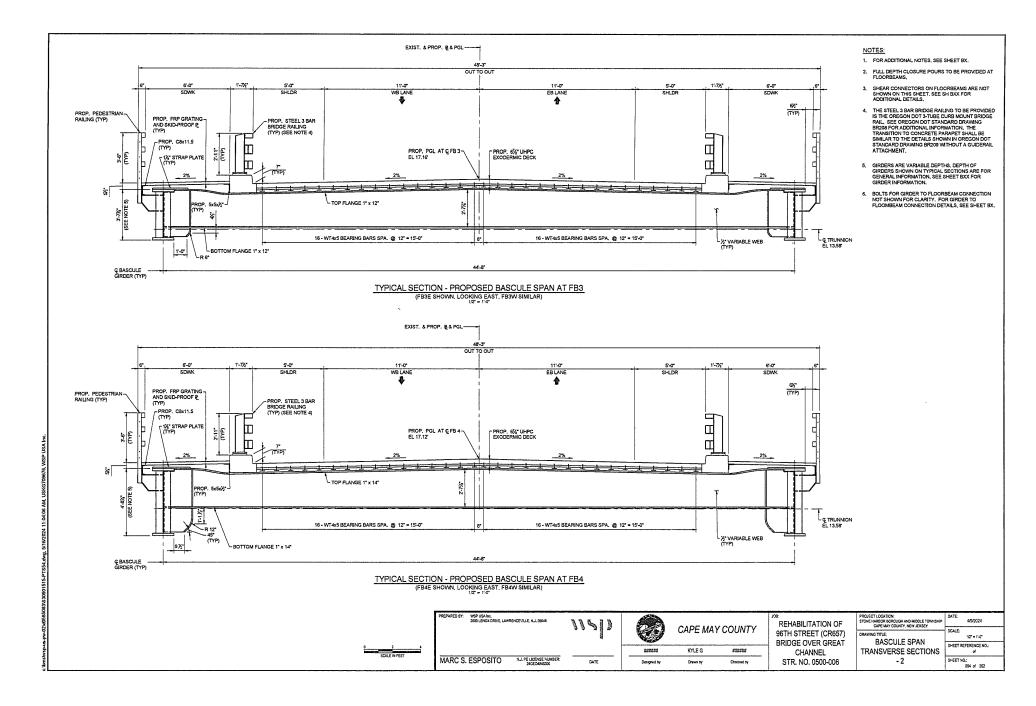
- 1. REFERENCE SHOP ASSEMBLY RACK SEGMENTS NOTES.
- AFTER THE BASCULE STEEL IS ERECTED AND THE SPAN HAS BEEN PREUNIVARILY BALANCED. THE FOLLOWAR PROCEDURE SHALL BE FOLLOWED TO ALIGA AND INSTALL THE RACK IN THEIR FINAL, POSITIONS, IF PROPER ALLGAMENT IS NOT ACHIEVED UPON COMPLETION OF THE BASCULE SPAN ASSEMUXT, THE CONTRACTOR WILL HAVE TO FIELD ADJUST AND REALIGN THE RACK SEGMENTS TO ACHEVE THE SPECIFIED RACK ALIGNMENT FOR PROPER NATING CONTACT WITH IT MATTING PINON.
- 3. FINAL RACK ALIGNMENT SHALL BE ACHIEVED IN THE FIELD AFTER FULL APPLICATION OF DEAD LODD TO PROVIDE THE REQUIRED RACK AND PINON TOOTH CONTRACT BY ADJUSTING THE SHIME BETWEEN EACH RACK FRAME AND EACH BASCULE GIRDER BOTTOM FLANGE. UTILEZ THERED OR CUSTOM MILLED SHIME AS NEEDED. FIELD ADJUSTMENTS OF THE BOLTED CONNECTION OF THE RACK SEGMENTS TO THE RACK FRAME SHALL BE PERFORMED ONLY IF REQUIRED AFTER ALL OTHER MEANS TO ADJUST THE ALIGNMENT HAVE BEEN EXAMISTED. FINAL FINANED BODY BOLTS BETWEEN THE RACK FRAME SHALL BE PERFORMED ONLY IF REQUIRED AFTER ALL OTHER MEANS TO ADJUST THE ALIGNMENT HAVE BEEN EXAMISTED. FINAL FINANED BODY BOLTS BETWEEN THE RACK FRAME AND BASCULE GIRDER BOTTOM FLANGE SHALL BE INSTALLED AFTER RACK AND FINAN TOOTH CONTRACT HAS BEEN ACHIEVED AFTER ALL APPLICATION OF DEAD DOITION TOOTH CONTRACT HAS BEEN ACHIEVED AFTER RALL APPLICATION OF DEAD DOITION TO FINAND BEAMS ON THE SUPPORT WELDMENTS PRIOR TO DRILLING AND REAMING FINAL HOLES IN THE SUPPORT WELDMENTS.
- THE CONTRACTOR SHALL SUBMIT PROPOSED DETAILS FOR AUGMING THE RACKS IN ACCORDANCE WITH THE PROCEDURE ABOVE TO THE ENSINEER FOR REVIEW AND APPROVIL, PRIOR TO THE STATO FOW ORK: ITS NOTED THAT THE PROCEDURE FOLLOWED AT ONE RACK FRAME. MAY NOT BE SUTTABLE FOR OTHER RACK FRAMES, CONSIDER FACH CASE INDEPENDENTLY TO PROVIDE THE PROCEDURE ALLOWMENT.

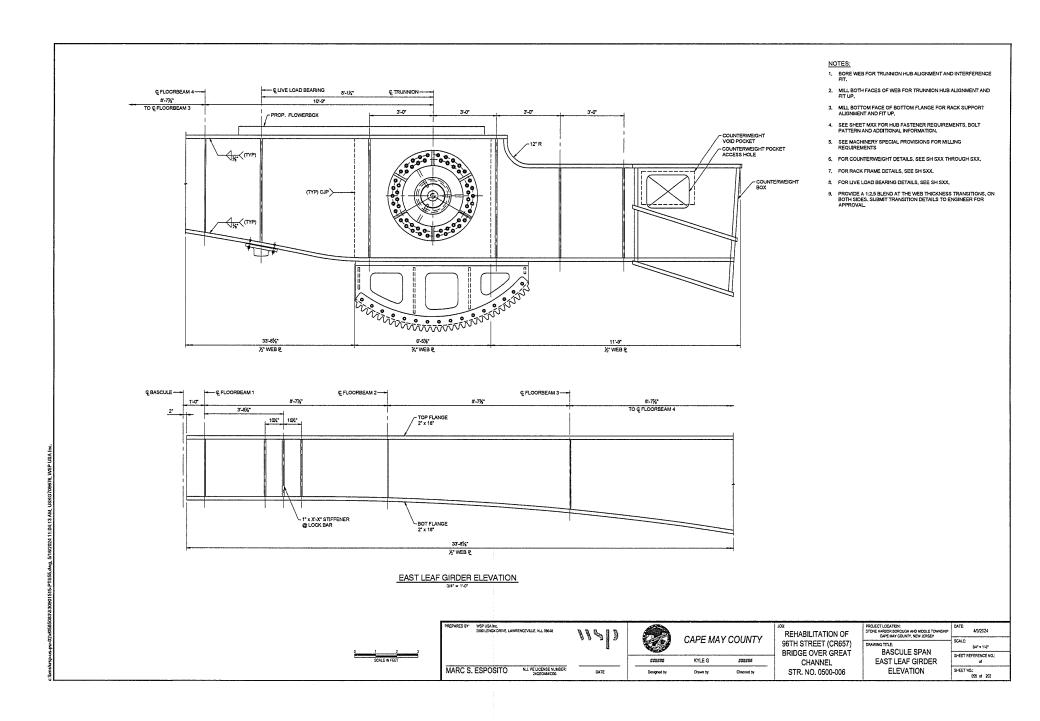
PREPARED BY	: WSP USA Inc. 2000 LENOX DRIVE, LAWR	ENCEVILLE, N.J. 08648	116]]	8	CAPE MAY COUNTY		REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STONE HARDOR BORQUCH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE: AS SHOWN	
				******	KYLE G	<i>E31160</i>	CHANNEL	BASCULE SPAN ASSEMBLY NOTES	SHEET REFERENCE NO.; of	
MARC	S. ESPOSITO	N.J. PE LICENSE MUMBER: 24GEC4845300	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006	ASSEMIDLT NOTES	SHEET NO.: 090 of 202	

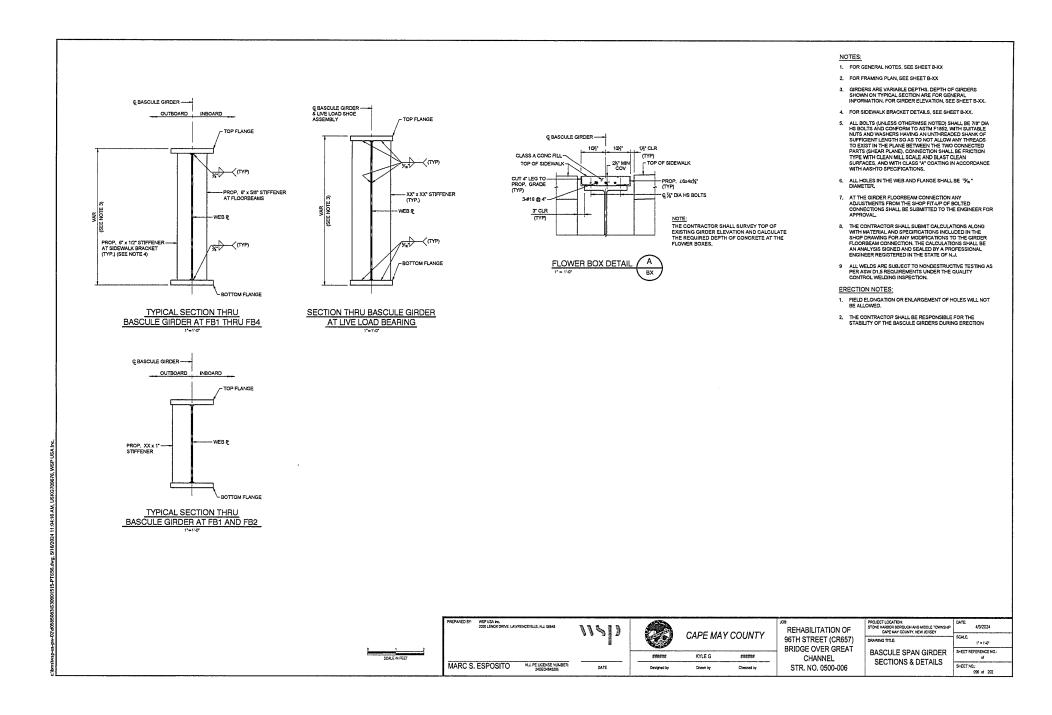


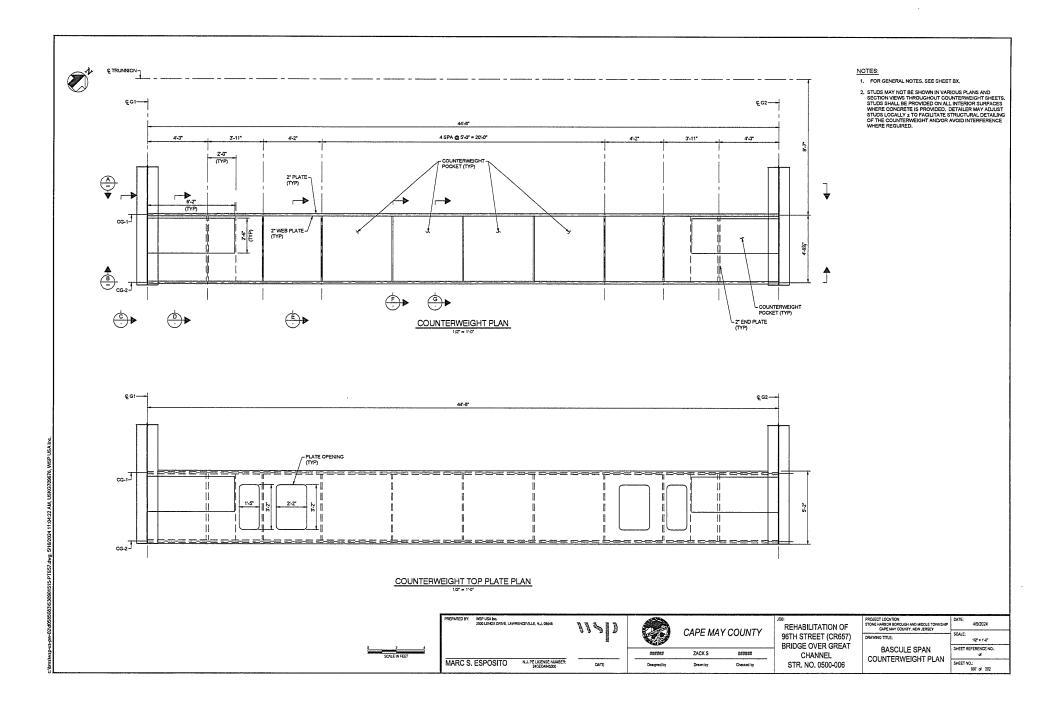


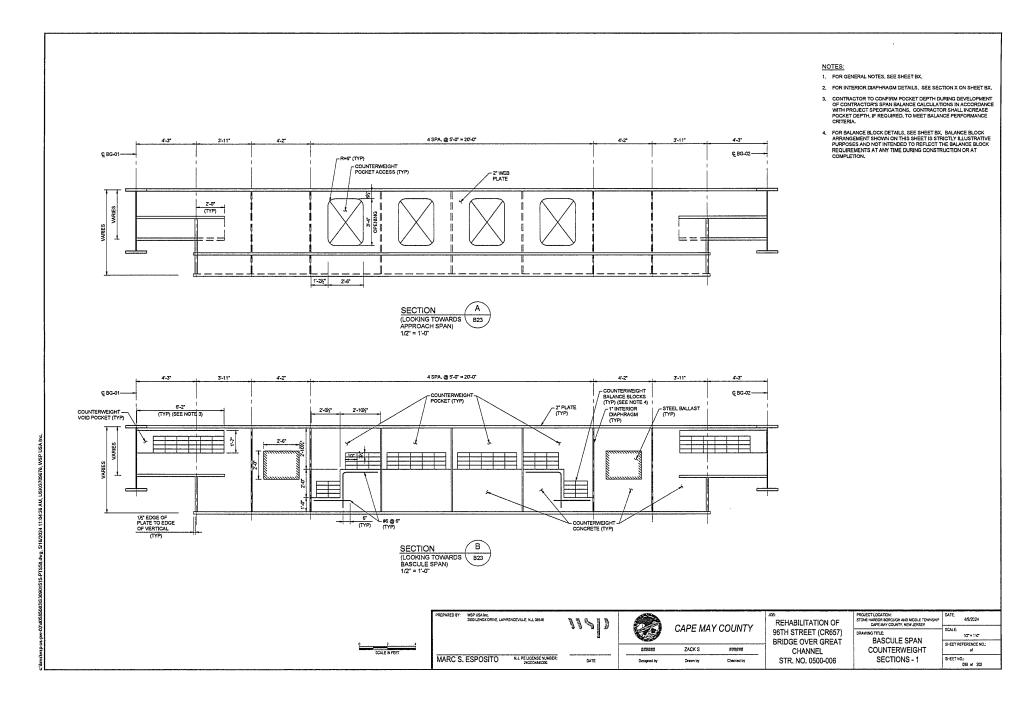


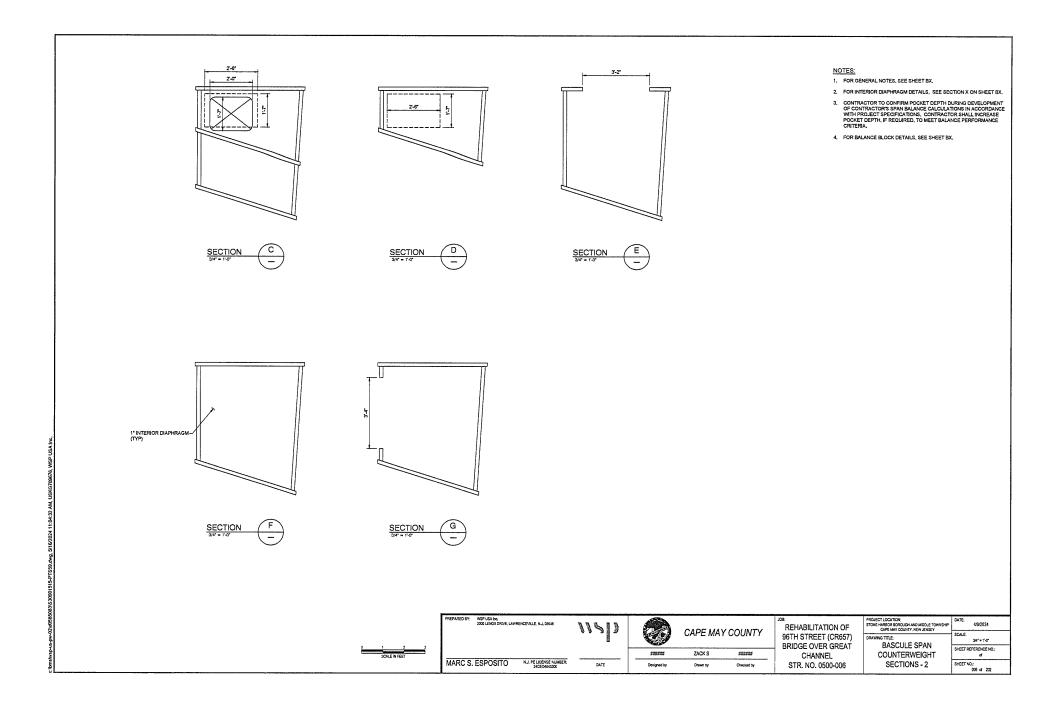


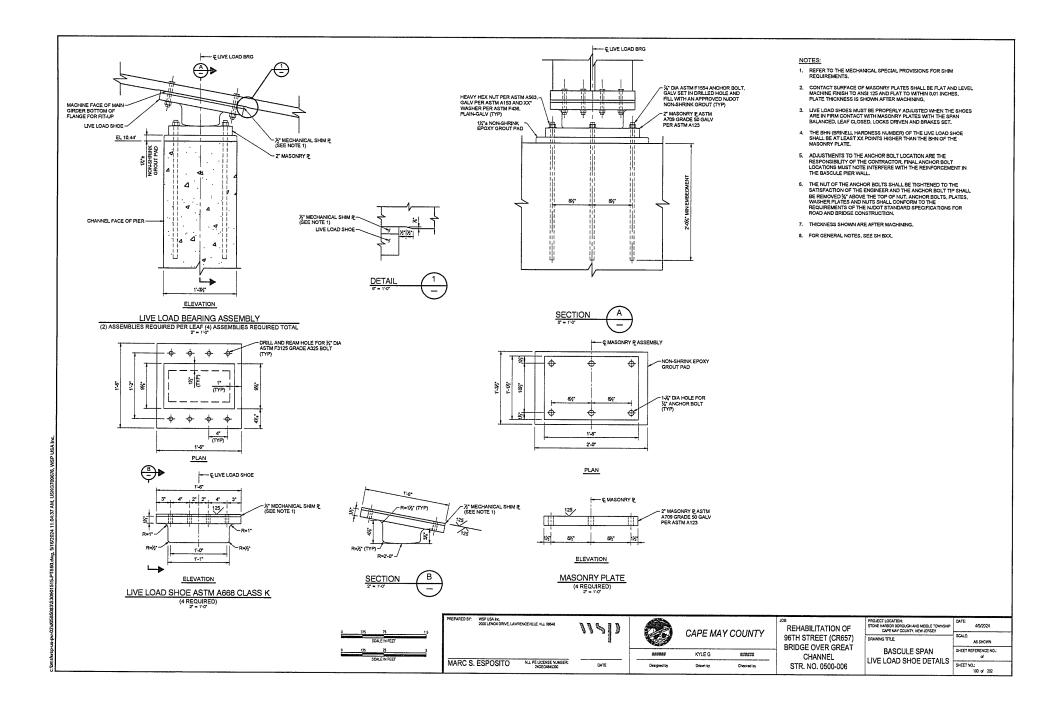


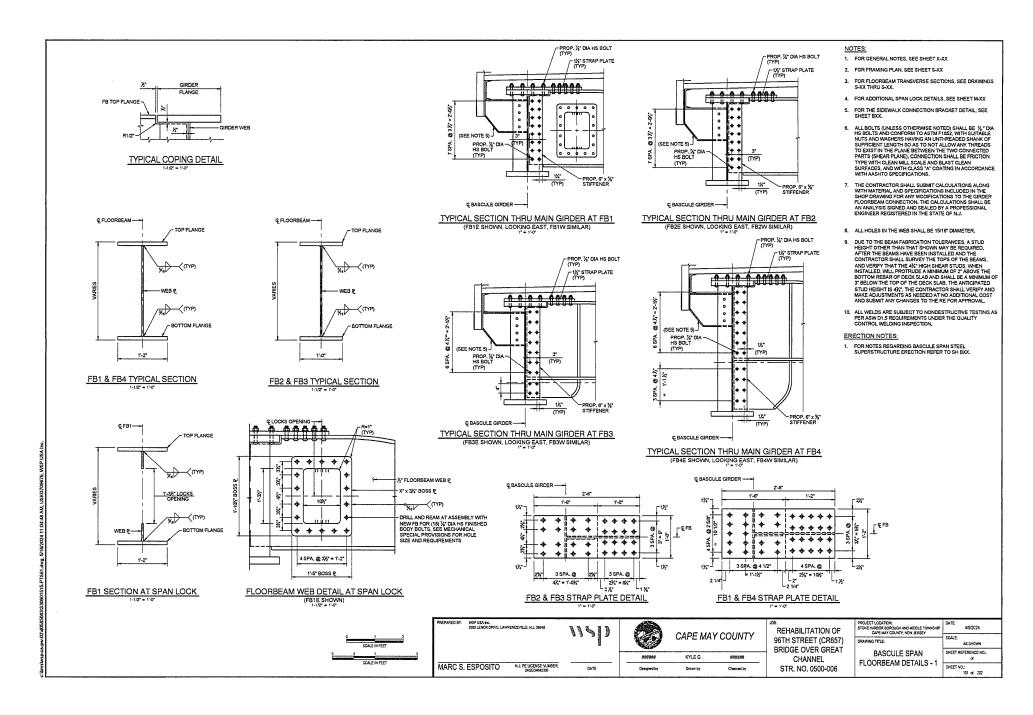






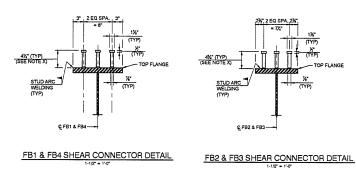




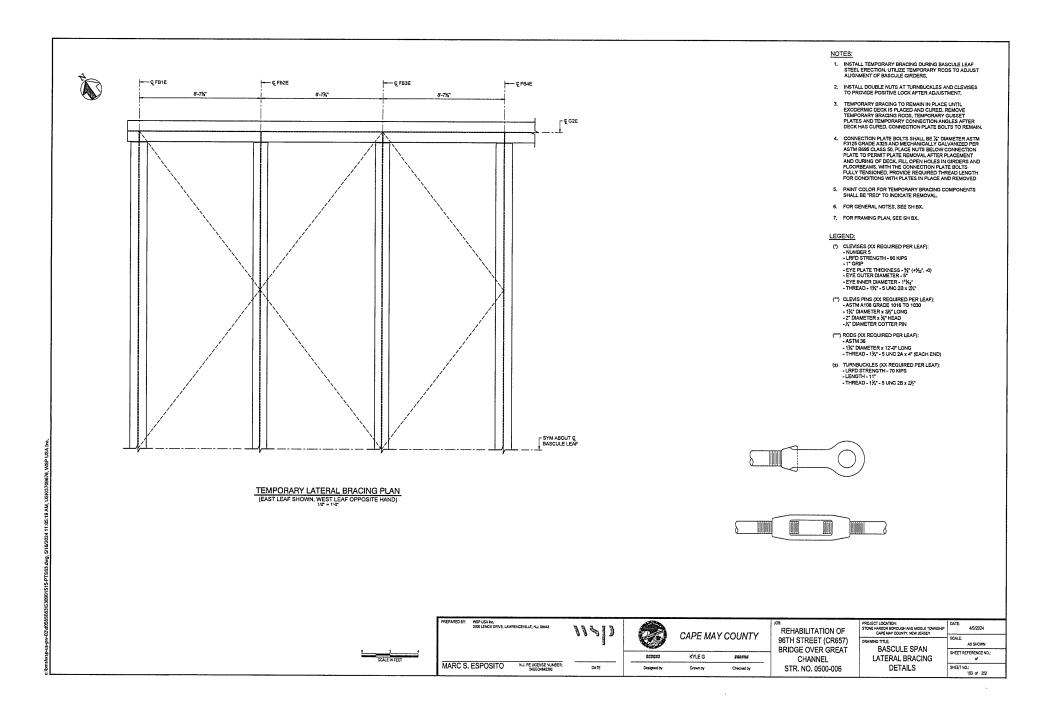


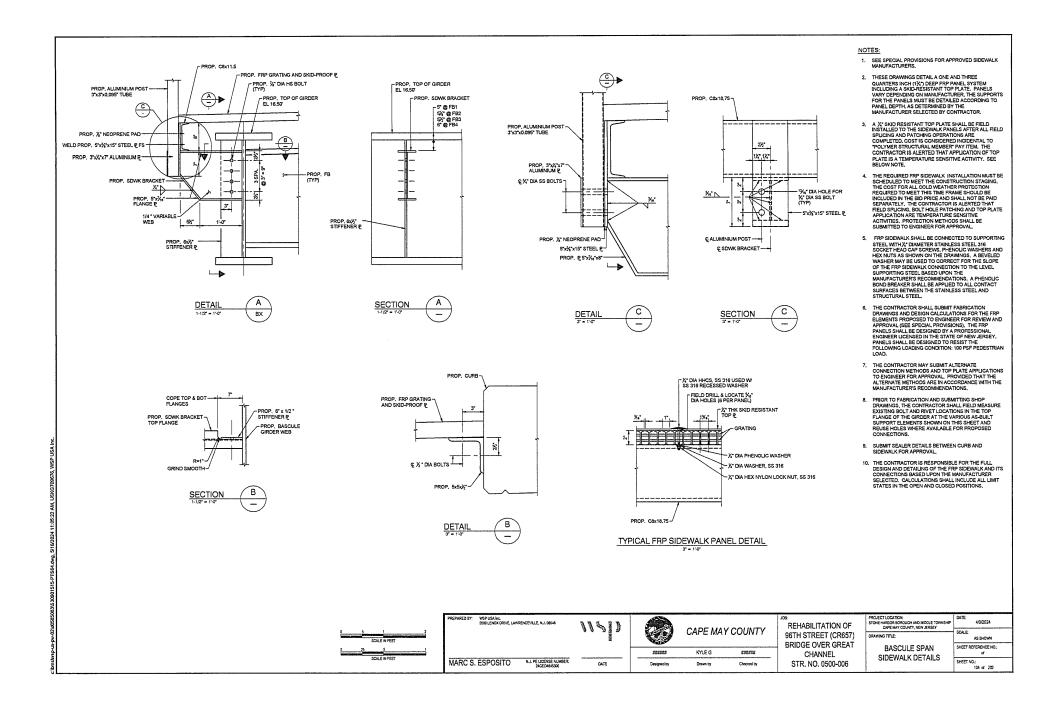


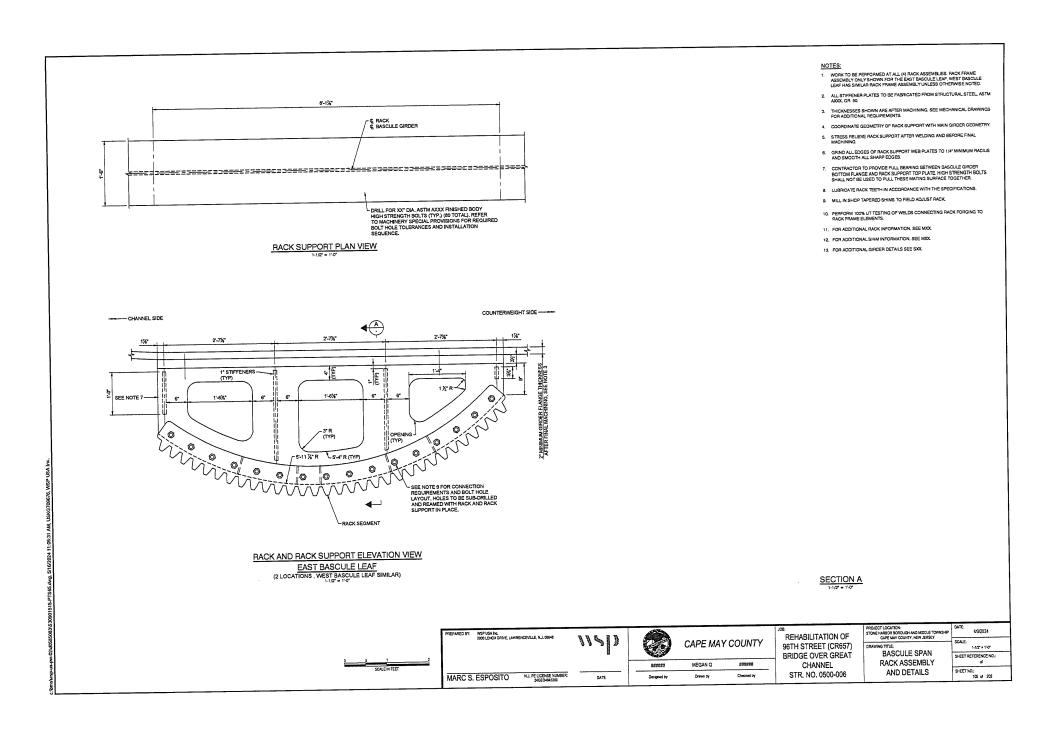
1. CONTRACTOR SHALL PLACE SHEAR CONNECTORS AROUND DECK PANEL COMPONENTS. EXACT LOCATIONS CAN VARY, BUT THE CONT OF SHEAR CONNECTORS MUST BE MAINTAINED. A MINIMUM 1.57 GLEAR FROM STUD TO EDGE OF POOLET MUST BE HELD. AN ESTIMATE POOLET SIZE IS THE ONLY AND THE CONTRACT PHENE TO MODIFY THE MUST MUST BE CONTRACT PHENE TO MODIFY CLEARANCE, OR PREFENCES, A REVISED DETAIL SHALL BE SUBMITTED FOR APPROVAL.

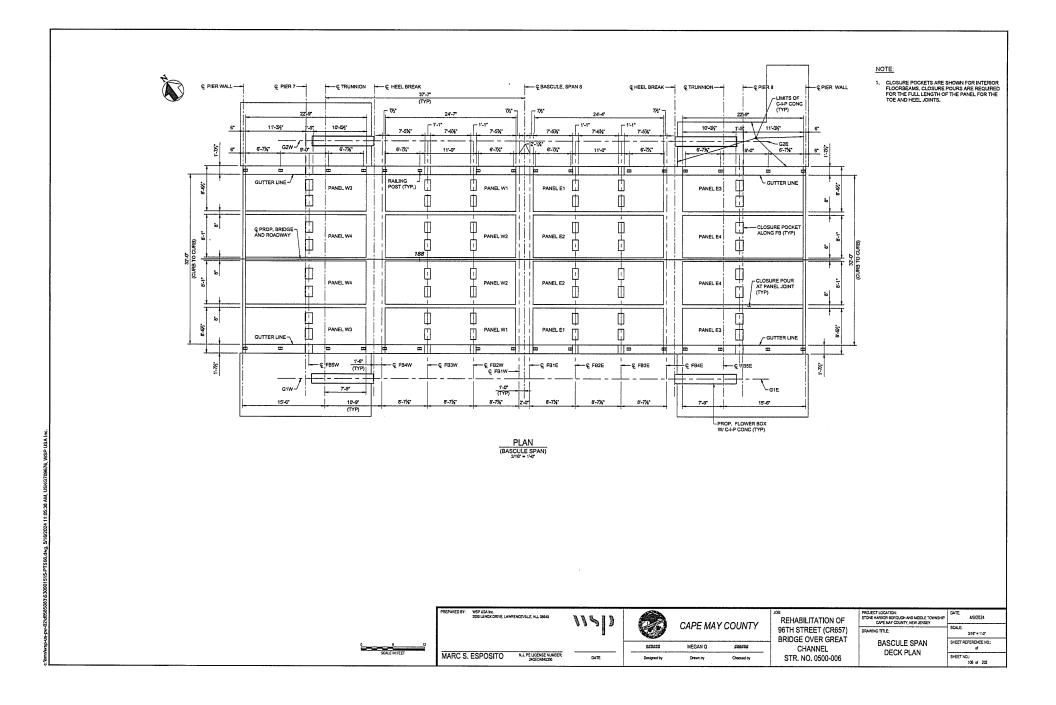


<u>85_1</u> 2	PREPARED BY: WSP USA IC. 2000 LENOX DRIVE, LAWRENCEVILLE, NJL 00449	1120	CAPE MAY COUNTY REHABILITATION OF 96TH STREET (CR657)	STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY	DATE: 4/9/2024 SCALE: >-1/2" + 1'-0"		
SOLENTET	MARC S. ESPOSITO	DATE	Designed by	KYLE G ####### Drawn by Checkad by	BRIDGE OVER GREAT CHANNEL STR. NO. 0500-006	BASCULE SPAN FLOORBEAM DETAILS - 2	SHEET REFERENCE NO.: of SHEET NO.: 102 of 202









NOTES:

THE FOLLOWING NOTES APPLY TO THE EXODERMIC DECK PANELS. FOR ADDITIONAL NOTES, SEE THE GENERAL NOTES.

1. PROVIDE UHPC FOR CLOSURE POCKETS IN ACCORDANCE WITH THE SPECIAL PROVISIONS

2. STEEL

- (A) THE STEEL GRID COMPONENTS, WT SECTIONS, DISTRIBUTION BARS AND MISCELLANEOUS PLATES SHALL BE FABRICATED FROM STEEL MEETING THE REQUIREMENTS OF ASTIM ATOR GRADE SO, UNCLINICS SHALL BE IN CONFORMANCE WITH THE ASSITIONING BRIDGE WELDING CODE D1.5. WT SECTIONS MAY ALSO BE ASTM 4932 AS AN ALTERNATIVE.
- (B) VERTICAL SHEET METAL FORM PANS (BULKHEADS) INSTALLED IN GRID PRIOR TO GALVANIZATION SHALL CONFORM TO ASTM ASSO GR A101 1. GALVANIZED SHEET METAL FORMS INSTALLED FOLLOWING GRID PANE. GALVANIZATION SHALL CONFORM TO ASTM A653. FLAT FORM PANS SHALL BE 20 GAGE.
- (C) ALL COMPONENTS IN STEEL GRID FOR EXODERMIC DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- (D) ANY DEFECTS AND DAMAGES IN GALVANZING SHALL BE REPAIRED AS PER SPECIFICATIONS, SEE SPECIAL PROVISIONS FOR PRECAUTIONS.

3. REINFORCEMENT STEEL

- (A) ALL REINFORCEMENT STEEL IN THE EXODERMIC DECK PANELS AND IN ALL CASTINFPLACE CONCRETE ADJOINING THE EXODERMIC DECK PANELS, SUCH AS IN PANEL SPICIE JOINTS, FOR SUCR FLOORBANG AND ANT EXPRANSION JOINTS, SHALL BE ASTM ARIS GRADE 60, GALVANIZED PER ASTM A767 CLASS I.
- (B) UNLESS NOTED OTHERMISE, MINMUM CONCRETE COVER MEASURED FROM THE FACE OF UNPC TO THE FACE OF VIA GALVARZED REINFORCING BAR SHALL BE 1.75" AT THE OTH OF THE EXODERING DECK (IPPC OVERLAY SHALL NOT BE PERMITTED TO CONTRIBUTE TO THE COVER PROVIDED). 2" AT SIDE EDGES AND 1" AT THE BOTTOM OF THE EXODERING DECK.
- (C) MINIMUM LAP SPLICE LENGTH IS 1'-9" FOR #13 AND 2'-3" FOR #16 GRADE 60 BARS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- (D) TRANSVERSE REINFORCING BARS (PARALLEL TO WT SECTIONS) SHALL BE ADJUSTED TO MAINTAIN A 1⁺ MINIMUM CLEARANCE BETWEEN REINFORCING BARS AND WT WEBS.
- (E) FINAL BAR DETAILING SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBNITTED TO THE COUNTY FOR APPROVAL. ALL DARS IN THE SCHEDULES PROVIDED SHALL BE ACCOUNTED FOR IN THE FINAL PARLES. BAR ELISIOTIS FROVIDED ARE MINIMUMS. THE CONTRACTOR MAY CHOOSE TO MAKE BARS LONGER AT NO ADDITIONAL COST. THE REBRA SHALL BE THE LENGTH REQUIRED TO MEET THE LIMITS SHOWN IN THE DETAILS WHILE MAINTAINING THE MINIMUM COVER LISTED ABOVE.
- 4. FABRICATION
 - (A) A GENERIC GRID SYSTEM IS SHOWN ON THE DRAWINGS. MINOR DEVIATIONS, AS MANUFACTURED BY INDIVIDUAL SUPPLIERS, WILL BE CONSIDERED FOR APPROVAL IN THE SHOP DRAWINGS. DETAILS SUGGESTED BY MANUFACTURER TO BE SUBMITTED FOR APPROVAL
 - (8) EXODERING PANELS ARE DIMENSIONED TO THE ANTICIPATED LIMITS OF THE PANEL SPLICE JOINTS OR DECK JOINTS, THE CONTRACTOR MAY PROPOSE FABRICATING LARGER PANELS THAN WHAT IS SHOWN IN THESE PLANS, SUBMIT ALL DETAILS OF PROPOSED OPERATION TO DEPARTMENT FOR APPROVAL INCLUDING SHPPING METHOD. THE USE OF LARGER PARELS IS CONTINGENT VEROTINE ON UTION APPROVAL. MINIMUM SPACING OF STELL GRID AND REINFORCEMENT STEEL SHOWN SHALL BE MAINTMED.
 - (C) THE DIMENSIONAL TOLERANCES FOR EACH STEEL GRID PANEL SHALL BE IN ACCORDANCE WITH THE CURRENT FUBLISHED STANDARDS OF THE BRIDGE GRID FLOORING MANUFACTURERS ASSOCIATION.
 - (D) CONTRACTOR SHALL SLIBMT DETAILED SHOP DRAWINGS AND CALCULATIONS PREPARED AND SALED SHA JUGNSED PROFESSIONAL EXQUIRER IN THE STATE OF NEW JERSEY. THE CONTRACTOR SHALL DEVELOP THE DETAILED SEQUENCE OF WORK TASKS TO BE PREPROFENCE, DRAW WORK, LIPTING, HANDLING, AND LEVELING OF EXODERNIC PARELS, CALCULATIONS SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL.
 - (E) OMIT DISTRIBUTION BARS OVER FLOORBEAMS AND/OR STRINGERS AS NECESSARY TO PROVIDE CLEARANCE FOR SHEAR CONNECTORS AND LEVELING BOLTS.
 - (F) WT SECTION LAYOUT HAS BEEN DEVELOPED TO MINIMIZE CONFLICTS WITH THE SCUPPERS, ONLY A SINGLE WT SECTION SHALL BE CUT AT EACH SCUPPER LOCATION TO AVOID THE CONFLICT BETWEEN THESE ELEMENTS, SEE SH, BXX FOR DETAILS.

(G) RAILING POST SPACING SHALL NOT EXCEED 11'-0".

(H) SCUPPERS SHALL BE SET BELOW ANY OVERPOUR IN THE PRECAST CONCRETE DECK SO THAT THEY ARE FLUSH WITH THE FINAL RIDING SURFACE.

- THE TOP SURFACE OF THE EXODERING PANELS SHALL BE BROOM FINISH, THE SURFACE WILL BE GROUND DOWN AFTER INSTALLATION, 1/4" MINIMUM OVERPOUR THICKNESS IS REQUIRED AND NOT SHOWN ON ALL THE DETAILS WITHIN THE PLANS,
- (J) CONTRACTOR MAY PROPOSE MINOR CHANGES TO PANEL DIMENSIONS TO GROUP SIMILAR PANELS TOGETHER INTO ONE PANEL SIZE. ALL SCUPPER, JUNCTION BOX, MINIMUM AND MUXIMUM THANSVERSE JOINT WOTHS, AND SHEAR CONNECTOR REQUIREMENTS MUST BE MAINTAINED. PROPOSED CHANGES MUST BE SUBMITTED TO THE COUNTY FOR APPROVAL.

5. INSTALLATION

(T)

- (A) CONTRACTOR SHALL PERFORM RELD SURVEY OF EXISTING DECX ELEVATIONS BEFORE REMOVAL OF EXISTING DECK AND SHALL PERFORM RELD SURVEY OF TOP OF PANEL SUPPORTING ELEMENTS TO REMAIN AND AFTER INSTALLATION OF PROPOSED ELEMENTS (INVERE: APPLICABLE) PRORT TO INSTALLATION OF EXODERING DECK PANELS. CONTRACTOR SHALL SUBMIT HAUNCH CALCULATIONS BASED ON THESE SURVEYS TO THE COUNTY FOR APPROVAL
- (B) PRIOR TO EXODERMIC DECK PANEL INSTALLATION, THE TOP SURFACES OF PROPOSED STRINGERS, EXISTING STRINGERS TO REMAIN, AND PROPOSED FLOORBEAMS SHALL BE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS.
- (C) SHEAR CONNECTORS MUST BE INSTALLED ON STRINGERS AND FLOORBEAMS AS INDICATED ON THESE DRAININGS. THE CONTRACTOR MAY CHOOSE TO INSTALL SHEAR CONNECTORS PRIOR TO FINAL PLACEMENT OF EXODERMIC DECK PANELS, CONTRACTOR MUST COORDINATE LOCATION OF SHEAR CONNECTORS WITH EXODERING PANELS IN OF ODER TO PROVIDE THE REQUIRED QUANTITY OF SHEAR CONNECTORS, RESPECT SPACING LIMITATIONS OF SHEAR CONNECTORS, AND AVOID CONNECTS WITH THE WY SECTIONS NOR FEAR IN PARELS.
- (D) PANELS SHALL BE STABILIZED DURING INSTALLATION TO AVOID "WALKING" OF THE PANELS. THE CONTRACTOR SHALL SUBMIT DETAILS OF STABILIZATION TO THE COUNTY FOR APPROVAL.
- (E) PROVIDE A MINIMUM OF THREE LEVELING AND SUPPORT BOLTS ALONG EACH STRINGER FOR ALL DECK PANELS WIDER THAN 5. TWO BOLTS PER SUPPORT MEMBER FOR PANELS LESS THAN 5' WILL BE PERMITTED, SEE SH, BXX FOR DETAILS.
- (7) FINAL PANEL ELEVATIONS SHALL BE ATTAINED BY ADJUSTING THE TORQUE ON LEVELING SCREWS TO PROMOTE AN EQUAL DISTRIBUTION OF PANEL DEAD LOAD TO ALL PANEL SUPPORTING ELEMENTS. THE TORQUE SCHEDULE SHALL BE SUBMITED WITH THE SHOP PORVINGS FOR THE PANELS. ALL LEVELING BOLTS SHALL BE EQUALLY TORQUED TO APPROXIMATELY THE SAME VALUE WITH NO MORE THAN 10 FERCENT DEVIATION FROM THE AVERAGE.
- (G) THE SHEET METAL FORMS SHALL BE INSTALLED IN SUCH A MANNER AS TO MINIMIZE LEAKAGE.
- (H) CONCRETE FOR TRANSVERSE JOINTS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE TRANSVERSE JOINTS ARE FILLED,
- (I) CONCRETE DAMS / HAUNCH ANGLES SHALL BE USED TO RETAIN CONCRETE PLACED WITHIN THE HAUNCH ABOVE THE TOP FLANGE OF THE STRINKERS, GIRDERS, AND FLOORBEAMS. THE PROPOSED METHOD FOR RETAINING HAUNCH CONCRETE SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL
- (J) WELDING OF INTEGRAL VERTICAL BULKHEADS WILL ONLY BE ALLOWED PRIOR TO GALVANZING, WELDS FOR THE BULKHEADS WILL ONLY BE ALLOWED WITHIN THE BOTTOM 1*0F THE WIT SECTIONS, HAUNCH ANGLES SHALL NOT BE WELDED TO STRINGERS, FLOORBEAMS, OR GIRDERS WITHIN NEGATIVE MOMENT REGIONS,
- (6) IF PANELS ARE STACKED FOR STORAGE PRIOR TO FIELD INSTALLATION BLOCKING OR SOME OTHER MEANS FOR CLUSHONING SHALL BE PROVIDED SO THAT THE PANELS DO NOT BEAR ON THE EMBEDDED ANCHOR BOLTS. ALTERNATIVELY, AT THE CONTRACTOR'S OPTION, COUPLING MUTS WHICH CAN DEVELOP A MINIMUM OF 125% OF THE SPECIFIED YELD STRENGTH OF THE ANCHOR BOLTS MAY BE SET FLUSH WITH THE TOP OF THE PRECAST CONCRETE TO RECEIVE FIELD PLACED ANCHOR BOLTS AT NO ADDITIONAL COST. SEE SH SBX SFOR THE DETAILS.
- (L) A RIGID LIFTING FRAME SHALL BE USED AND CONCRETE TENSILE STRESSES SHALL BE CONTROLLED DURING HANDLING. SEE SPECIAL PROVISIONS FOR REQUIREMENTS. FOR PRAVILSE CONTINUING SCUPPERS, PAREL LIFTING OPERATIONS THAT ENGAGE A DISCONTINUOUS (CUT) MAIN BAR WILL NOT BE PERMITTED.
- (M) PRECAST PANELS SHALL REACH A MINIMUM AGE OF 75 DAYS PRIOR TO INSTALLATION. PANELS SHALL BE STORED IN A SAFE LOCATION AND THE FINAL ACCEPTANCE OF THE PANELS IS SUBJECT TO THE APPROVAL OF THE RE.
- 7. FOR EXODERMIC DECK RELATED QUANTITIES, SEE SH. BXX.

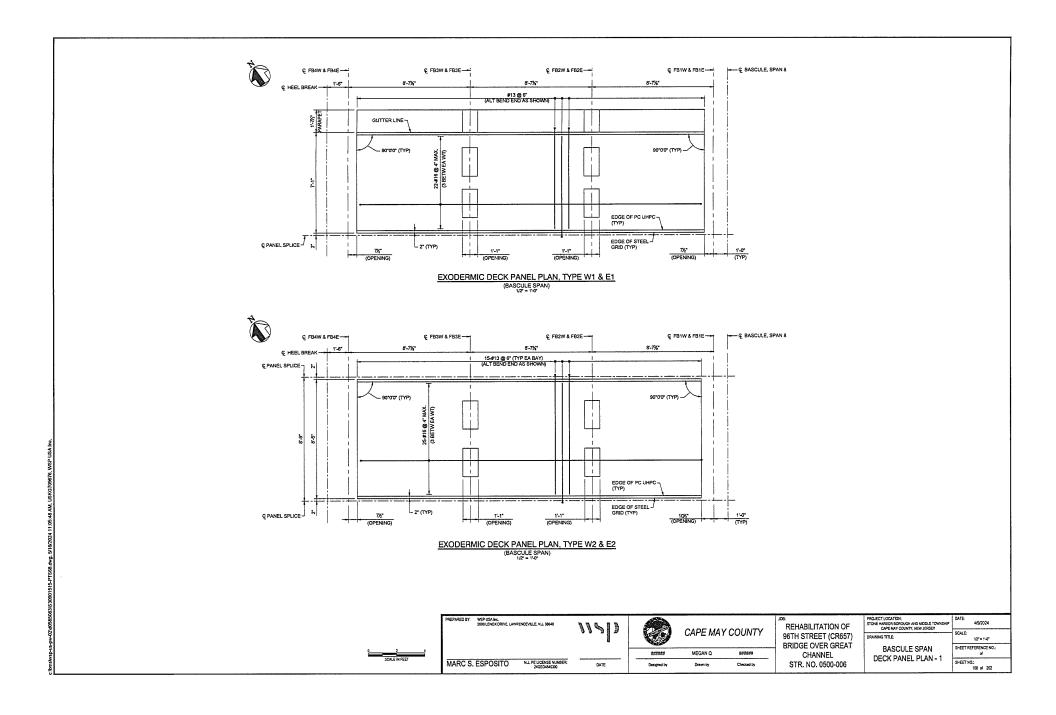
PREPARED BY:	WSP USA Inc. 2008 LENOX DRIVE, LAWR	ENCEVILLE, N.J. 08643	112])		CAPE MA	Y COUNTY	REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE: AS SHOWN
				<i></i>	KYLE G	######	CHANNEL	EXODERMIC DECK	SHEET REFERENCE NO.: of
MARC S.	ESPOSITO	N.J. PE LICENSE NUMBER: 24GE04845300	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006	PANEL NOTES	SHEET NO.: 107 of 202

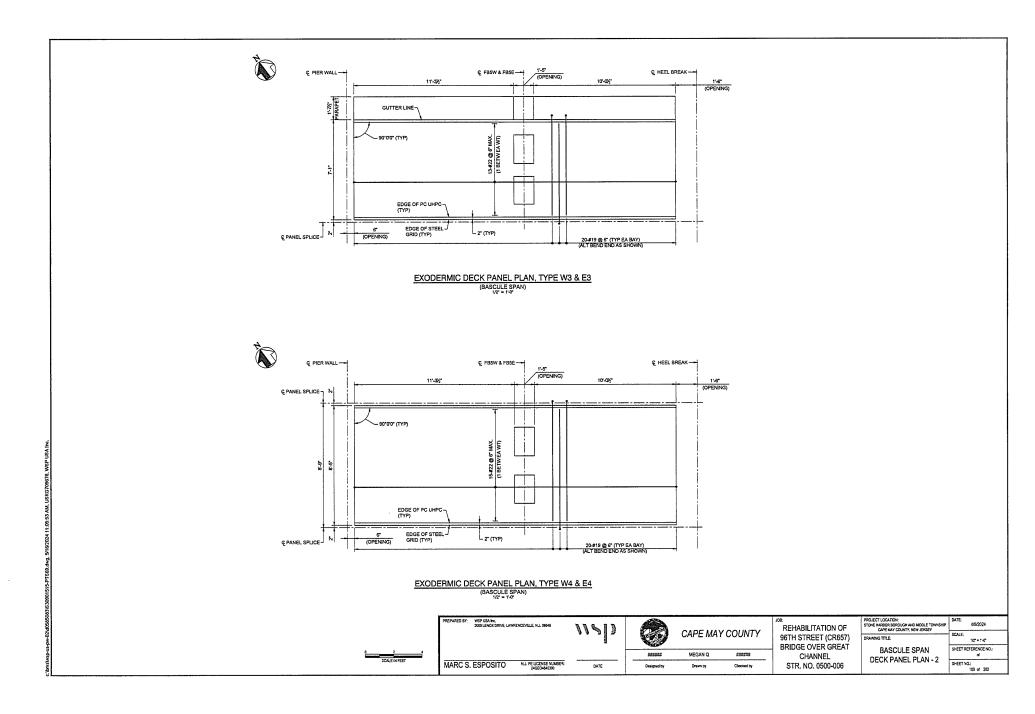
8. FOR LOCATION OF SCUPPERS BY BASELINE STATION, SEE SH, BXX,

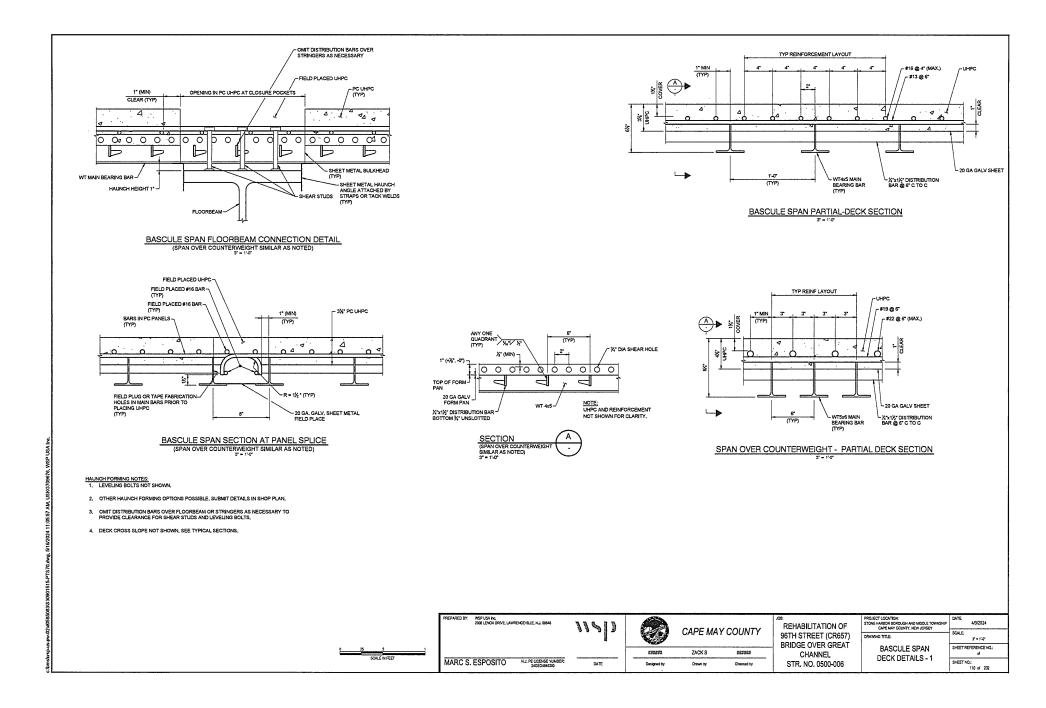
9. ALL PANELS WITH GIONIFICANT GEOMETRIC VARIATIONS ANDOR FEATURES SUCH AS SCUPPERS OR LIGHT STANDARDS HAVE GENE GENE DETAILED, PANELS WITH MINOR GEOMETRIC VARIATIONS OR WHERE THE INCLUSION OF A FEATURE WILL RESULT IN DETAILS SUILAR TO THOSE PROVIDED FOR ANOTHER PANEL TYPE MAY HOT HAVE BEEN PROVIDED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE COUNTY FOR APPROVAL FOR ALL PANELS. NOTES ARE PROVIDED WITHIN THE PANEL DETAILS TO INDICATE WHERE SUMLARITIES EXIST FOR THE PANELS NOT SHOWN AND WHCH DETAILS SHOULD BE FOLLOWED FOR THESE PANELS.

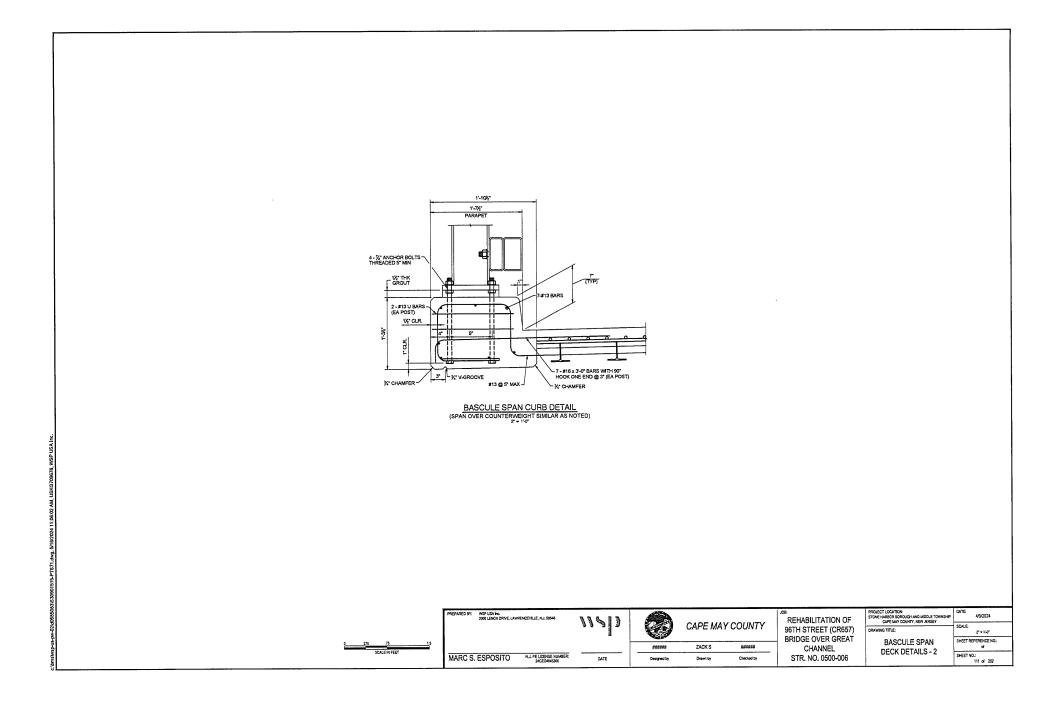
SUGGESTED PANEL INSTALLATION SEQUENCE:

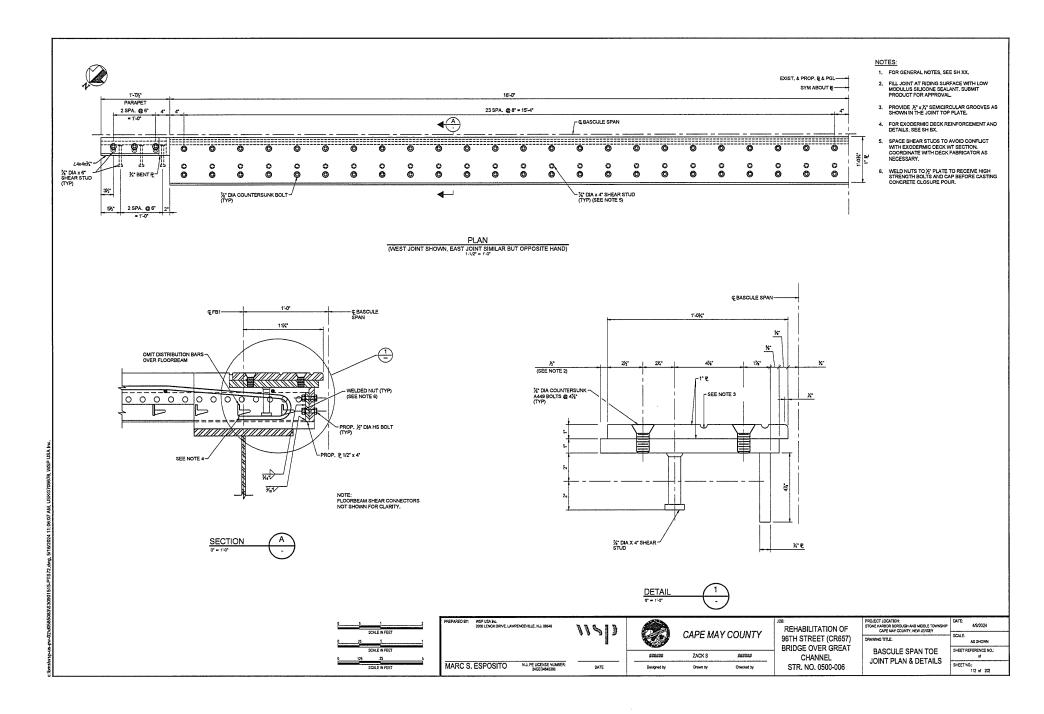
- 1. PREPARE ALL SURFACES IN ACCORDANCE WITH THE SPECIFICATIONS.
- FORM HAUNCHES BETWEEN THE BOTTOM OF EXODERMIC PANEL AND TOP OF STRINGERS AND FLOORBEAMS.
- 3. FULLY EXTEND LEVELING BOLTS TO PREVENT PANEL WEIGHT FROM BEING TRANSFERRED TO THE HAUNCH FORMS.
- 4. PLACE ALL EXODERMIC DECK PANELS.
- ADJUST LEVELING DEVICES TO BRING PANELS TO CORRECT GRADE AND ELEVATION. ENSURE THAT THERE ARE NO GAPS IN THE HAUNCH FORMS.
- INSTALL SHEAR CONNECTORS ON ALL STRINGERS AND FLOORBEAMS AND FIELD APPLY GALVANIZING COMPOUND TO SHEAR CONNECTORS.
- 7. INSTALL FIELD PLACED R.M.C. AND JUNCTION BOXES.
- POUR UHPC OVER PANEL SUPPORTING ELEMENTS FOR CLOSURE POCKETS AND AT PANEL SPLICES.
- AFTER UHPC OVER PANEL SUPPORTING ELEMENTS FOR CLOSURE POCKETS AND AT PANEL SPLICES HAS CURED, PLACE CAST-IN-PLACE UHPC AT DECK JOINT BLOCKOUTS.

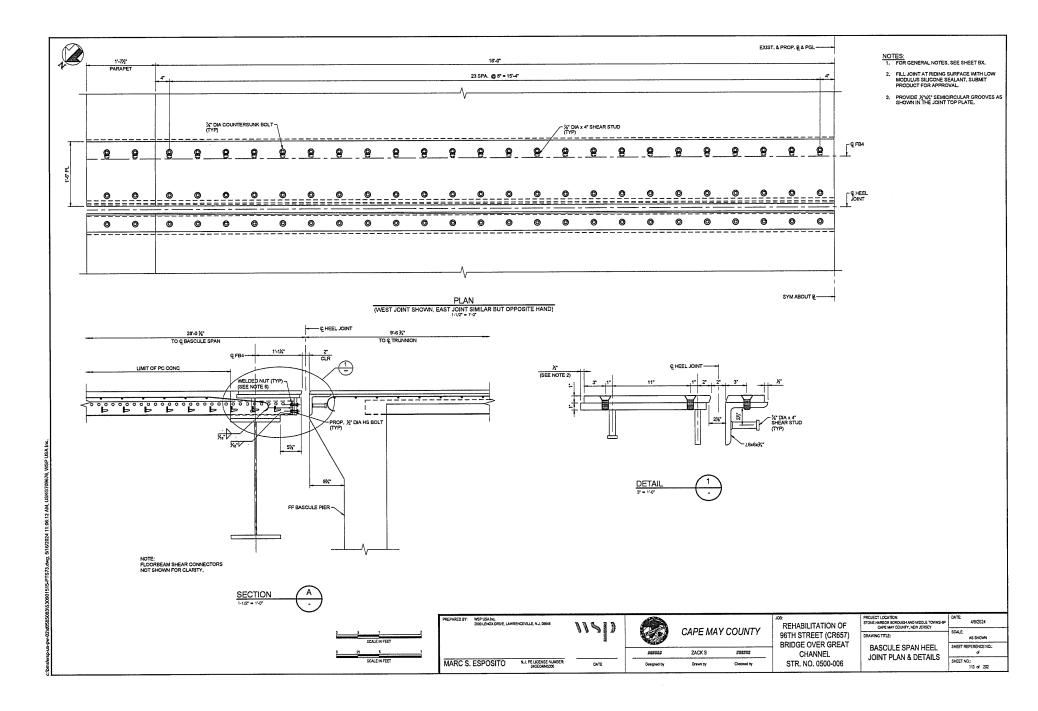


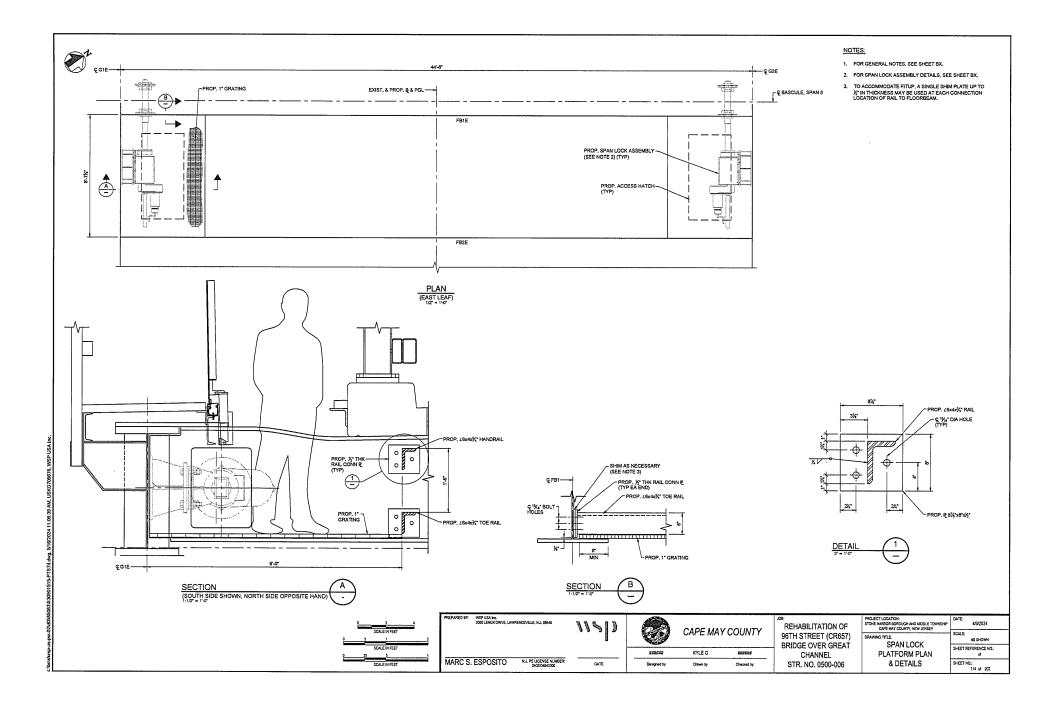






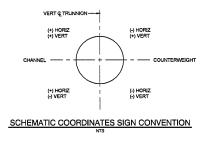






		TOE REACTION	WE	IGHT	X-DIST	MX	Y-DIST	My
		(LBS)	(LBS)	(KIPS)	(FT)	(K-FT)	(FT)	(K-FT)
	EXODERMIC DECK							
	SIDEWALK							
	SIDEWALK BRACKETS							
	CURB RAILING							
	CURB RAILING POSTS							
9	HANDRAIL							
FORWARD	HANDRAIL POSTS							
2	SPAN LOCK							
2	SPAN LOCK PLATFORM							
	LATERAL BRACING							
	BASCULE GIRDERS							
	FLOORBEAMS							
	JOINTS							
	TOTAL FORWARD							
	COUNTERWEIGHT FRAME							
~	COUNTERWEIGHT CONCRETE							
REAR	STEEL BALLAST							
Ζ.	BALANCE BLOCKS							
	TOTAL REAR							
	TOE REACTION							
	TOTAL							
Ę	CENTER OF GRAVITY, X							
·	CENTER OF GRAVITY, Y							
	DEGREES ABOVE HORIZONTAL							

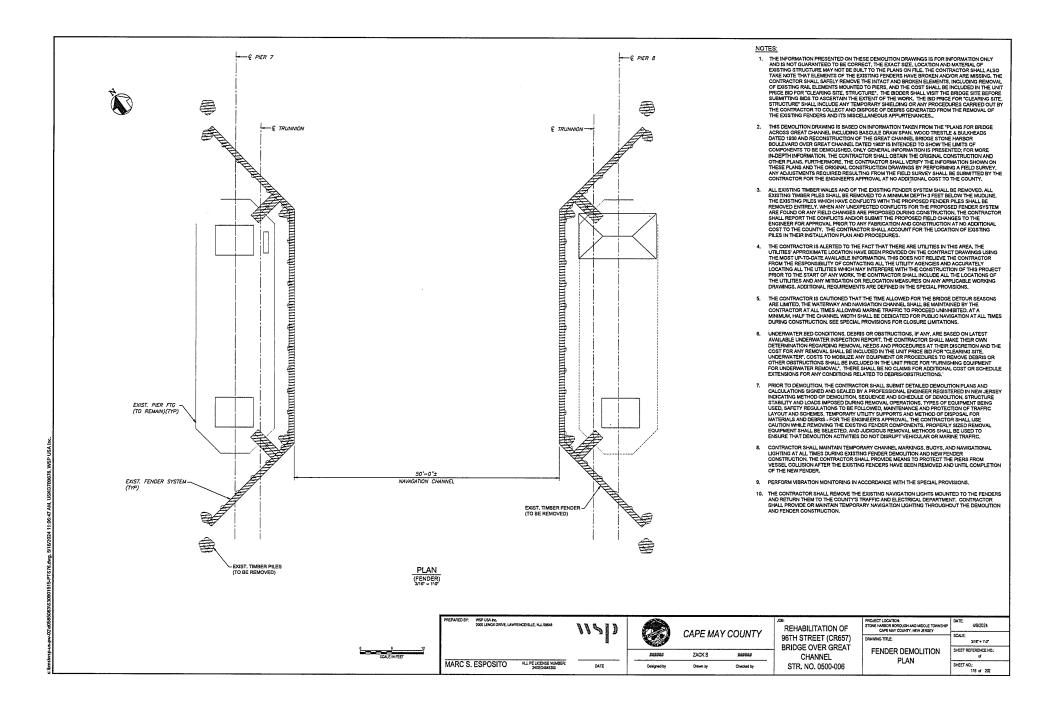
		SUMMA	RY OF PRO	OPOSED CO	NDITION - WE	ST LEAF		
		TOE REACTION	WE	IGHT	X-DIST	MX	Y-DIST	My
		(LBS)	(LBS)	(KIPS)	(FT)	(K-FT)	(FT)	(K-FT)
	EXODERMIC DECK							
	SIDEWALK							
	SIDEWALK BRACKETS							
	CURB RAILING							
	CURB RAILING POSTS							
ອ	HANDRAIL							
-ORWARD	HANDRAIL POSTS							
£.	SPAN LOCK							
5 C	SPAN LOCK LOCK RECIEVER							
	LATERAL BRACING							
	BASCULE GIRDERS							
	FLOORBEAMS							
	JOINTS							
	TOTAL FORWARD							
	COUNTERWEIGHT FRAME							
~	COUNTERWEIGHT CONCRETE							
REAR	STEEL BALLAST							
æ	BALANCE BLOCKS							
	TOTAL REAR							
	TOE REACTION							
	TOTAL							
뒫	CENTER OF GRAVITY, X							
-	CENTER OF GRAVITY, Y							
	DEGREES ABOVE HORIZONTAL							

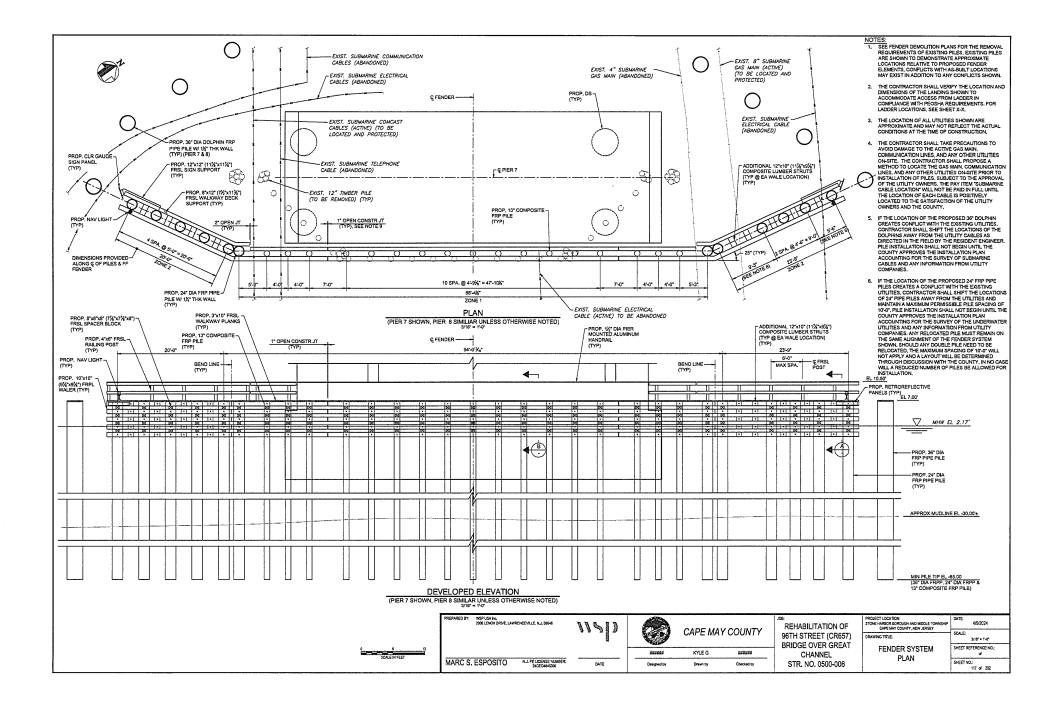


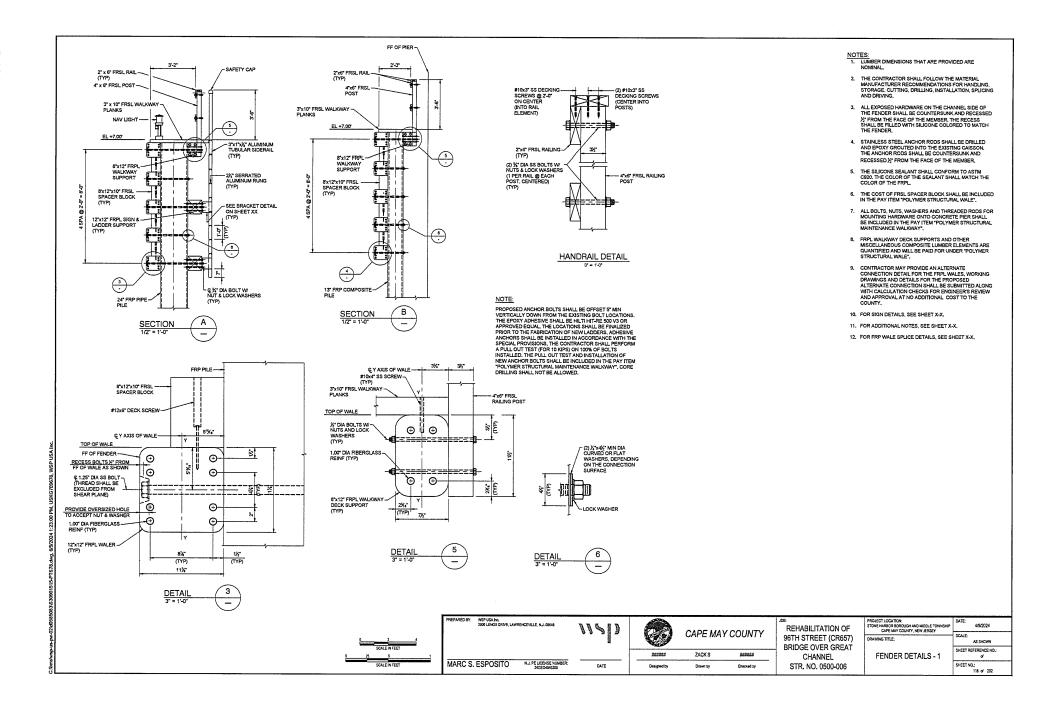
PREPARED BY:	WSP USA Inc. 2000 LENOX DRIVE, LAWRENCEVILLE, N.J., 08546	11613		0405.44		REHABILITATION OF	PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY	
			U	CAPE MA	YCOUNTY	96TH STREET (CR657) BRIDGE OVER GREAT		SCALE: AS SHOWN SHEET REFERENCE N
			******	KYLE G	######	CHANNEL	BASCULE SPAN BALANCE TABLE	SHEET REFERENCE
MARC S.	ESPOSITO NJ. PE LICENSE NUMBER: 24GED4845300	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006	DALANGE TABLE	SHEET NO .: 115 of 20

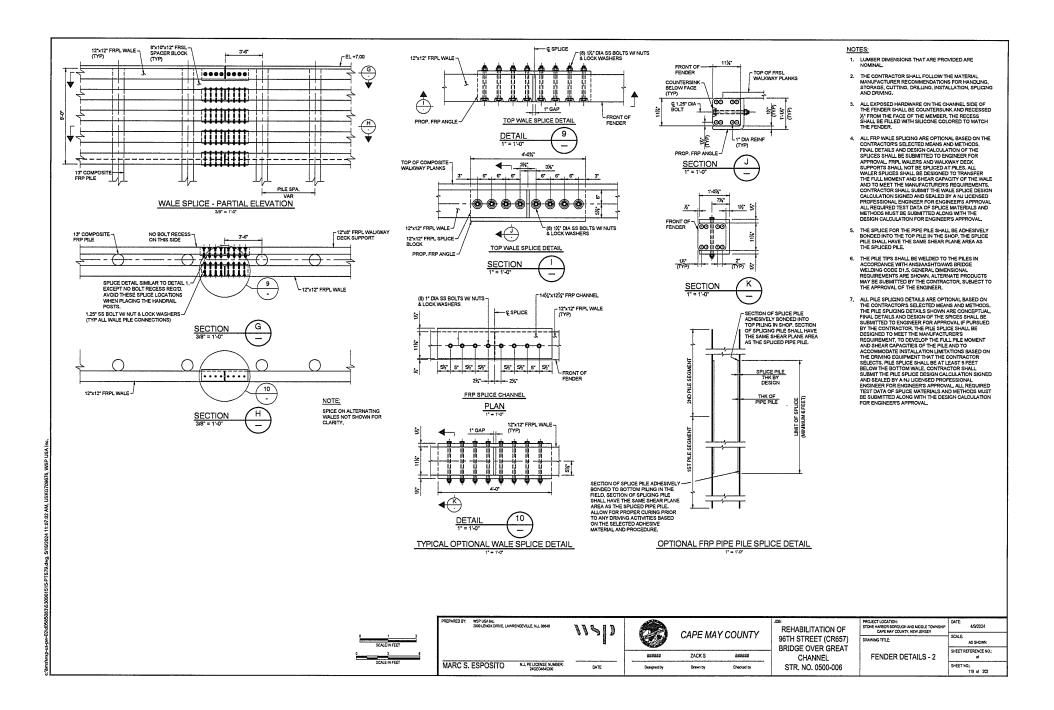
NOTES:

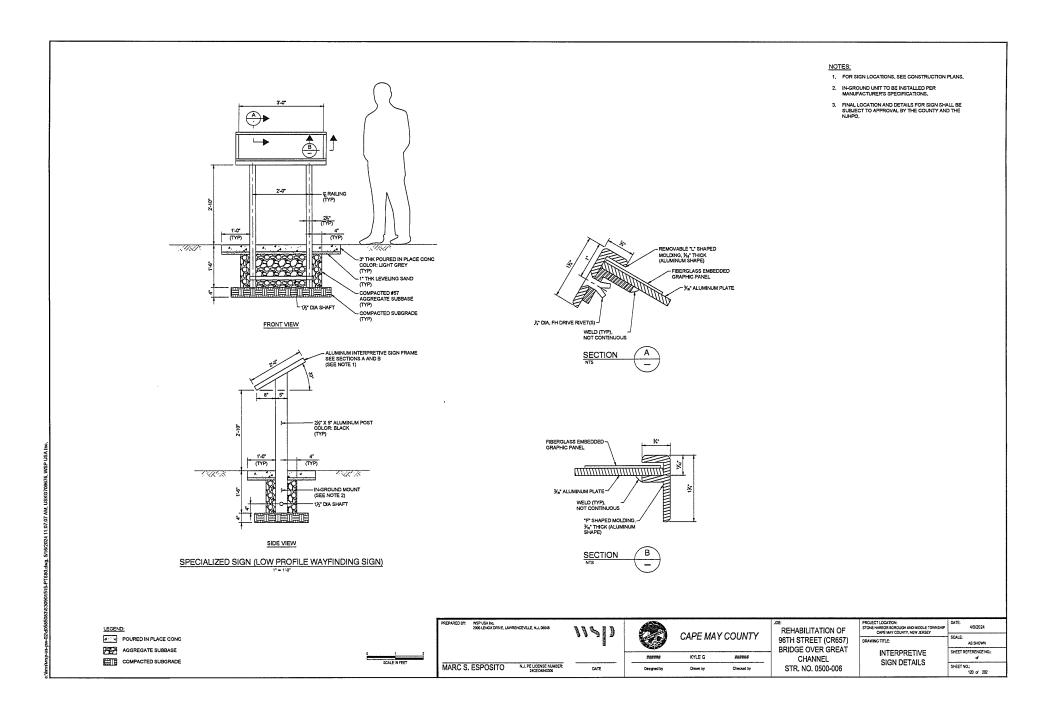
- 1. THE VALUES SHOWN IN THE BALANCE TABLE ARE FOR THE BASCULE SPAN IN THE CLOSED POSITION WITH SPAN LOCKS WITHDRAWN AND ARE IN ACCORDANCE WITH THE SCHEMICT MOMENT SIGN CONVENTION SHOWN ON THIS SHEET.
- THE CONTRACTOR SHULL PREPARE AND SUBMIT A DETAILED
 BASCULE LEAF CONTRUCTION BALANCE PROCEDURE IN
 ACCORDANCE WITH THE DEPEALA PROVISION AND IN THE FORMAT
 SHOWN ON THIS SHEET, THE CONTRACTOR IS ALERTED THAT
 COUNTERVECHT LOADING WAY REQUIRE BATALING AND
 REMEMBED THAT
 COUNTERVECHT LOADING WAY REQUIRE BATALING ARD
 DURING CONSTRUCTION AND BEFORE CONSILATED
 SLADS DURING CONSTRUCTION AND BEFORE CONSILATED
 PLOCEMENT OR REPORE DEPENDENCEMENT
- 3. THE COUNTERWEIGHT BOX SHALL BE FULLY SHORED DURING PLACEMENT OF COUNTERWEIGHT CONCRETE AND STEEL SLABS.
- THE VALUES SHOWN IN THE BALANCE TABLES ASSUME AN AVERAGE UNIT WEIGHT OF 1 SPECTAND, 2015TF DOLT THE CANTENNEUT THE SPECTAND AND SPECTAND THE CANTENNEUT BEFER TO THE SPECAL REPORTSIONS FOR ADDITIONAL INFORMATION, ALL CONCRETE SHALL BE PAID FOR UNDER ITEM "SPAN BALANCE CONCRETE FLU".
- 5. ALL STEEL FOR THE BALLAST SLABS SHALL BE ASTM A36 OR APPROVED COMMERCIAL GRADE STEEL.
- ALL COST FOR THE BALLAST SLABS INCLUDING BUT NOT LIMITED TO, POSITIONING AND REPOSITIONING IS TO BE INCLUDED UNDER ITEM "SPAN BALANCE STEEL BALLAST".
- PROVIDE 100 ADDITIONAL BALANCE BLOCKS PER LEAF FOR FIELD ADJUSTMENTS, STORE SPARE COUNTERWEIGHT BLOCKS AT THE SITE AS DIRECTED BY THE R.E.
- ALL COST FOR THE BALANCE BLOCKS INCLUDING, BUT NOT LIMITED TO, POSITIONING AND REPOSITIONING IS TO BE INCLUDED UNDER ITEM "SPAN BALANCE BLOCKS".
- 9. THE LOCATIONS AND QUANTITIES OF BALANCE MATERIAL SHOWN ON THE PLANS ARE APPROXIMATE, THE EXACT QUANTITY, LOCATION AND SIZE OF BALANCE MATERIAL SHALL BE DETERMINED AND DOCUMENTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE CONTRACTOR IN RESPONSIBLE FOR DETERMINING THE STEEL BALLAST SLABS AND BALANCE BLOCK NECESSARY TO BALANCE ME BASCULE SHAN, QUANTIES AND DIMENSIONS SHOWN THROUGHOUT THE PLANS ARE BIDDING PURPOSES ONLY.
- 10. THE BALANCE TABLE SHOWN IN THIS SHEET FOR THE FINAL CONCITION. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE LEAF DURING THE VARIOUS CONSTRUCTION STACES. IF REQUIRED, INCLIDING PROVISIONS SUPPLEMENTAL BALANCE MATERIAL AS DESCRIBED IN THE SPECIAL PROVISIONS.
- 11. THE LOCATIONS AND QUANTITIES OF BALANCE MATERIAL SHOWN IN THESE PLANS ARE APPROXIMATE, DETERMINE AND DOCUMENT THE EXACT QUANTITY, LOCATION AND SIZE OF BALANCE MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- 12. DOCUMENT COUNTERWEIGHT POCKET DIMENSIONS AND TABULATE COUNTERWEIGHT BLOCKS IN THE COUNTERWEIGHT POCKETS, PERFORM STRAIN GAUGE TESTING IN ACCORDANCE WITH SPECIAL PROVISIONS, SUPPLEMENT THE CONTRACTOR'S SPAN BALANCE COMPUTATIONS WITH RESULT FROM STRAIN GAUGE TESTING,
- 13. UPON COMPLETION OF THE BALANCING, DOWNWARD TOE REACTIONS OF 1.5 KIPS (WITHIN TOLERANCES LISTED IN THE SPECIAL PROVISIONS) SHALL BE ACHIEVED AT EACH GIRDER
- 14. ALL PROPOSED WEIGHTS IN THE COUNTERWEIGHT POCKETS SHALL BE ADEQUATELY SECURED IN POSITION
- 15. CONTRACTOR SHALL SUBAT PROPOSED PROCESSME AND COLULATIONS OF PROVING AND ADDRESS TO THE COLULATIONS OF PROVING AND ADDRESS TO THE REACTOR IS MAINTAINED AND THEME IS NO VERSITIESS TO EXISTING STRUCTURAL WEBERS, VALUES PROVIDED ON THIS SHEET ARE ESTIMATES ONLY.
- 16. PREPARE AND SUBMIT BALANCE TABLE COMPUTATIONS IN ACCORDANCE WITH THE SPECIAL PROVISIONS, PREPARE BALANCE COMPUTATIONS BASED ON INFORMATION FROM APPROVED SHOP DRAWINGS.

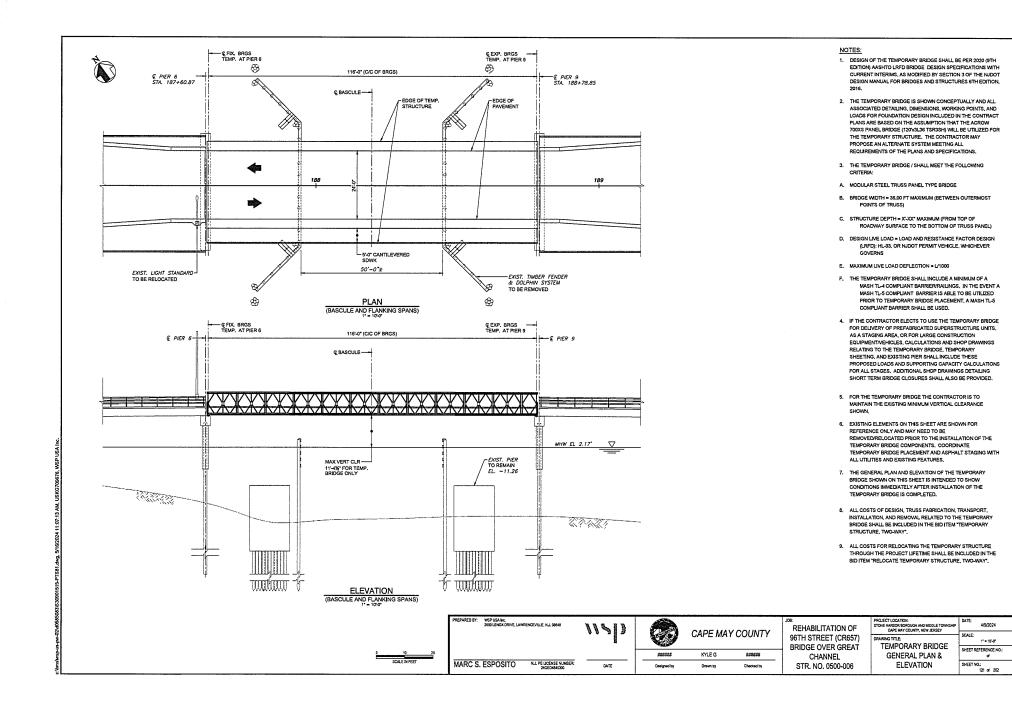


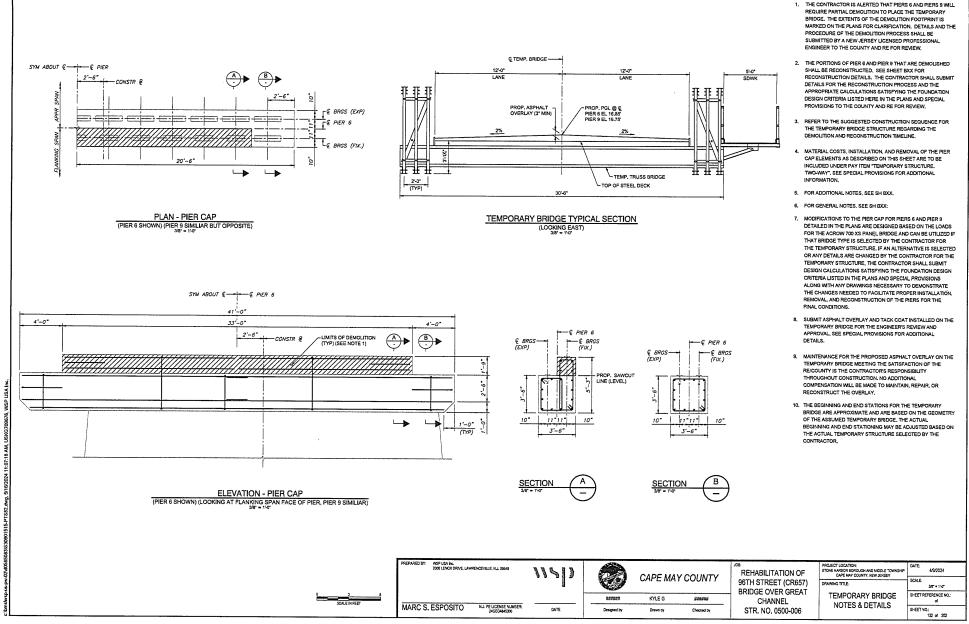












NOTES:

1. THE CONTRACTOR IS ALERTED THAT PIERS 6 AND PIERS 9 WILL

- GENERAL MACHINERY NOTES 1. DETAILS OF MACHINERY SHALL CONFORM TO THE LRFD, 2023 STANDARD SPECIFICATIONS MOVABLE HOHWAY BIRDOES, SRD EDITION (ALL INTERIM REVISIONS) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY NAD TRANSPORTATION OF FOLLS, UNLESS OTHERMISE SHOWN ON PLANS, OR PROVIDED FOR IN SPECIFICATIONS, WELDING SHALL BE IN ACCORDANCE WITH AWS BRIDGE WELDING CODE AASHTO/AWS-D1.5//D1.5: 2020 INCLUDING ALL INTERIM REVISIONS,
- 2. ANY REFERENCE TO THE "SPECIFICATIONS" INCLUDES REFERENCE TO ALL SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS AND SPECIFICATIONS REFERENCED HERE-IN,
- 3. VERIFY ALL FIELD SENSITIVE DIMENSIONS FOR PROPER COORDINATION AND ALIGNMENT WITH MACHINERY SUPPORTS.
- 4. MENTION OF A MANUFACTURER'S NAME OR MODEL DOES NOT REPRESENT A PREFERENCE, BUT IS USED TO SET A STANDARD.
- 5. MODEL NUMBERS AND DETAILS OF REDUCERS, COUPLINGS, BEARINGS, AND THER STANDARD COMPONENTS ARE BASED ON MANUFACTURERS CATALOG DATA CURRENT AT THE TIME THE PLANS WERE PREPARED. EQUIVALENT MODELS FROM OTHER MANUFACTURERS MAY BE SUBSTITUTED AT THE OPTION OF THE CONTRACTOR AND WITH THE SUBSTITUTED AT THE OPTION OF THE CONTRACTOR AND WITH THE APPROVAL OF THE COUNTY, ALL RELATED STRUCTURAL, MECHANICAL, AND ELECTRICAL DETAILS SHALL BE REVISED BY THE CONTRACTOR TO SUIT CERTIFIED DIMENSIONS OF THE COMPONENTS ACTUALLY FURNISHED AT NO ADDITIONAL COST TO THE COUNTY.
- 6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE IMPORTANCE OF PROMPT SUBMISSION OF SHOP DRAWINGS FOR APPROVAL, DETAIL DRAWINGS, ASSEMBLY DRAWINGS AND ERECTION DRAWINGS SHALL BE SUBMITTED TOGETHER AS A COMPLETE PACKAGE, MACHINERY MATERIALS Submitted Local Barl NA CLIMPLE CHARGENCE MACHINETY MAIl Eduar Approved Data Data San CLIMPLE CHARGENCE MACHINETY MAIl Eduar Approved Data Data San CLIMPLE CHARGENCE AND A SA OTED SHOP DRAWINGS OR CATALOG CUTS SHALL NOT BE CONSIDERED AS ACCEFFICIELE THE STANDARD OF PURCHASHING OR FABRICATION OF MACHINERY MATERIALS OR COMPONENTS, ADDITIONALLY, THERE WILL BE NO PARTILL PAYNETY OR SHOP DRAWING SUBMISSION.
- 7. TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD AND PROTECT NEW BRIDGE MACHINERY COMPONENTS PRIOR TO INSTALLATION AND THROUGHOUT THE WORK.
- ADDITIONAL SUPPLEMENTARY REQUIREMENTS ARE SHOWN IN MACHINERY MATEMAL LISTS. WHERE ACCEPTANCE REQUIREMENTS ARE NOT READLY DEFINED BY THE REFERENCED SATIN OR SPECIFICATION. THEY SHALL BE ACREED UPON BY THE MANUFACTUREN AND PRICHASES AND INCLUDED IN THE PURCHASE GORDER PRIOR TO FABRICATION.
- 9. ALL DIMENSIONS FOR MACHINE FINISHED SURFACES SHALL BE HELD TO ± 0.10 INCH EXCEPT AS OTHERWISE REQUIRED, SHOWN ON THE PLANS, BY SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER,
- 10, MACHINE ALL, MATING SURFACES OF MACHINERY PARTS, SUPPORTS, AND EXTERNAL EDGES.
- 11. DETAIL AND MACHINE EDGES AND CORNERS OF ALL MACHINERY PARTS WITH SUITABLE FILLETS AND CHAMFERS, PROVIDE A 1/2" MINIMUM RADIUS OR WTH SUITABLE FILLETS AND CHAMFERS, PROVIDE A ¼" MINIMUM RADIUS OF CHAMFER IF THE PART THICKNESS IS LESS THAN '1' AND X'IF THE PART THICKNESS IS EQUAL TO OR GREATER THAN '1' UNLESS OTHERMISE NOTED. IN THE CASE OF MATING PARTS, PROVIDE ALLOWINGES ACCOUNTING FOR THE PROPER IT AND ASSEMBLY. SHOW SUCH DETAILS ON SHOP DRAWINGS.
- 12. PROVIDE CASTINGS WITH CORNERS AND EDGES THAT HAVE SUITABLE FILLETS AND RADIL IN GENERAL, PROVIDE & MINIMUM & R FOR FILLETS OR RADII OF SECTIONS EQUAL OR GREATER THAN 2" AND ½" R FOR FILLE IS ON LESS THAN 2", SPOT FACE ALL BOLT HOLES IN CASTINGS.
- 13. MACHINERY DIMENSIONS SHOWN ON DRAWINGS ARE DIMENSIONS AFTER MACHINING.
- 14. PROVIDE MACHINERY SUPPORTS THAT ARE FLAT, LEVEL, AND PARALLEL TO EACH OTHER AND THE MOLINTING BASE PLATE. THICKNESS OF MOUNTING PLATES GIVEN ARE FOR AFTER FINISHING.

15. FITS AND FINISHES FOR MACHINERY SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED

SURFACE	FIT	FINISH (MICROINCHES)
MACHINERY BASE ON STEEL	-	(MICROINCHES) 125
MACHINERY BASE ON MASONRY	-	250
SHAFT JOURNALS	RC6	8
JOURNAL BUSHING	RC6	16
SPLIT BUSHING IN BASE	LC1	125
SOLID BUSHING IN BASE (TO 1/2" WALL)	FN1	63
SOLID BUSHING IN BASE (OVER 1/2" WALL)	FN1	63
HUBS ON SHAFT (TO 2" BORE)	FN2	32
HUBS ON SHAFT (OVER 2" BORE)	FN2	83
HUBS ON MAIN TRUNNION	FN2	63
SLIDING BEARINGS	RC6	32
KEYS AND KEYWAYS	ANSI B17.1	63
TEETH OF OPEN SPUR GEARS		
(UNDER 1.75 CIAMETRAL PITCH)	-	125

THE ABOVE FITS FOR CYLINDRICAL PARTS SHALL ALSO APPLY TO THE DIMENSIONS OF NON-CYLINDRICAL PARTS,

16. MACHINERY DIMENSIONS SHOWN ON THE DRAWINGS ARE DIMENSIONS AFTER MACHINING, UNLESS OTHERMISE INDICATED OR REQUIRED FOR THE PROPER ASSEMBLY OF PART, DIMENSIONAL TOLERANCES FOR MACHINERY IN GENERAL SHALL BE AS FOLLOWS:

SURFACE STRAIGHTNESS	- 0.010
FLATNESS	0 0.010
PARALLELISM	// 0.005 -
PERPENDICULARITY (PER LINEAR FT.)	⊥ 0.005 -
ANGULARITY (PER LINEAR FT.)	∠ 0.02 -
POSITION (FEATURES WITHIN A COMPONENT)	⊕ 0.02 −
CONCENTRICITY	0 0.005 -
CIRCULAR RUNOUT	/ 0.005
REFERENCE DIMENSION (BASED ON MANUFACTURER'S AVAILABLE DATA)	- <u>xxx</u>

17. PROVIDE WELDMENTS COMPRISED OF ASTM A709 GRADE 50 STRUCTURAL STEEL FOR SUPPORTS OF MECHANICAL COMPONENT

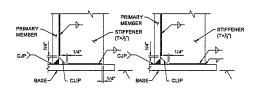
18, PROVIDE TYPE 316 STAINLESS STEEL SHIMS FOR LEVELING AND ALIGNING ALL MACHINERY COMPONENTS, PROVIDE SHIMS OF % INCH NOMINAL THICKNESS, UNLESS OTHERWISE SPECIFIED, WITH ADJUSTMENT VARIATIONS AS DESCRIBED IN THE SPECIFICATIONS,

19. PROVIDE ASTM A449 OR ASTM F3125 GRADE A325 H.S. (HIGH STRENGTH)

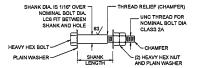
PROVIDE ASTM A449 OR ASTM F3125 GRADE A325 H.S. (HIGH STRENGTH) A FASTMERS OF THE FOLLOWING TYPES: A. H.S. MACHINERY BOLTS: USED TO CONNECT MACHINERY TO SUPPORTS INLESS OTHERMISE NOTED. B. H.S. TURNED BOLT: USED TO MUNTAIN A LIGNMENT OF MACHINERY COMPORTS. C. H.S. STRUCTURE BOLT: USED TO CONNECT MACHINERY SUPPORTS TO STRUCTURAL STEEL

MACHINERY WELDMENT NOTES: 1. CLIP STIFFENERS AS NECESSARY TO AVOID OVERLAP OF WELDS OR CLEAR

- FILLET WELDS BY A MINIMUM OF 1/4".
- 2. WHERE CJP IS NOT REQUIRED, MILL ALL VERTICAL PLATES TO BEAR ON HORIZONTAL PLATES PRIOR TO WELDING,
- 3. WHERE MACHNING IS REQUIRED, STRESS RELIEVE ALL WELDMENTS AFTER WELDING AND BEFORE MACHNING. UNLESS OTHERMISE APPROVED.
- 4. BREAK ALL SHARP EDGES.
- UNLESS À SURFACE IS DESIGNATED TO BE GALVANIZED, BLAST CLEAN BOTTOM SURFACE TO "MEAR WHITE" CONDITION AND ANCHOR PROFILE PER PAINTING SPECIFICATIONS, DO NOT PANTI BOTTOM SURFACE. APRIL'O CORROSION INHEITOR TO PROTECT SURFACE DURING SHIPPING AND STORAGE, RENVOE ALL CORROSION INHEITOR D'RORTO TO INSTALTION AND GROUTING.



TYPICAL MACHINERY WELDMENT DETAIL



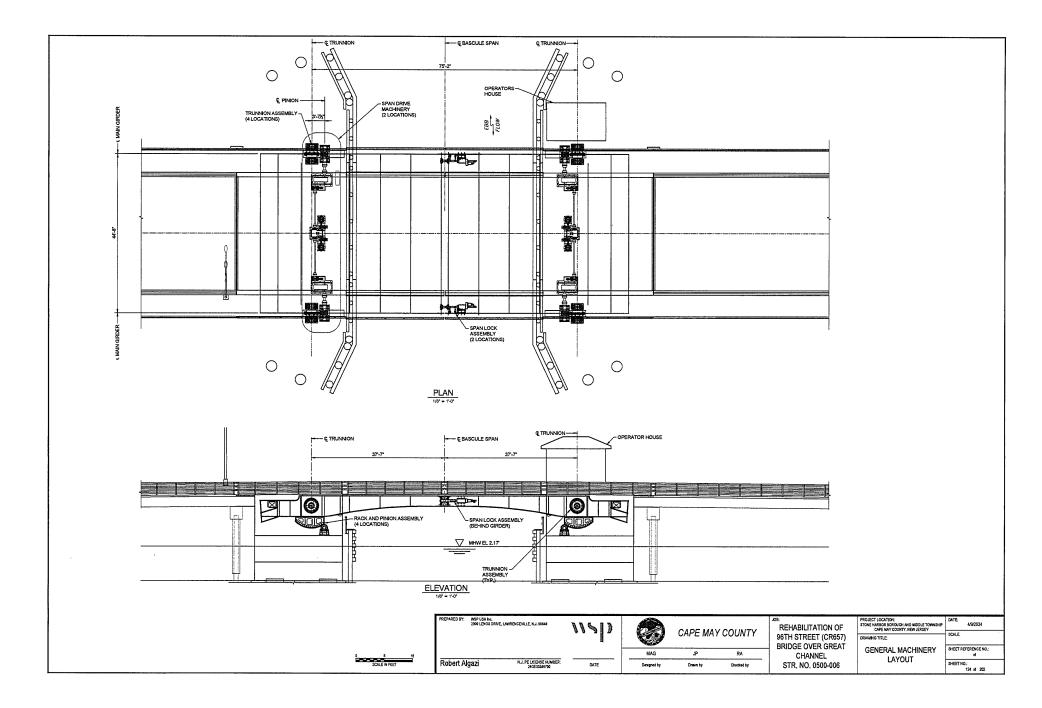
TYPICAL H.S. TURNED BOLT DETAIL SHANK LENGTH TO BE 1/4" LESS THAN GRIP THICKNESS OF CONNECTION. REFER TO SPECIAL PROVISIONS FOR BOLT TENSIONING REQUIREMENTS.

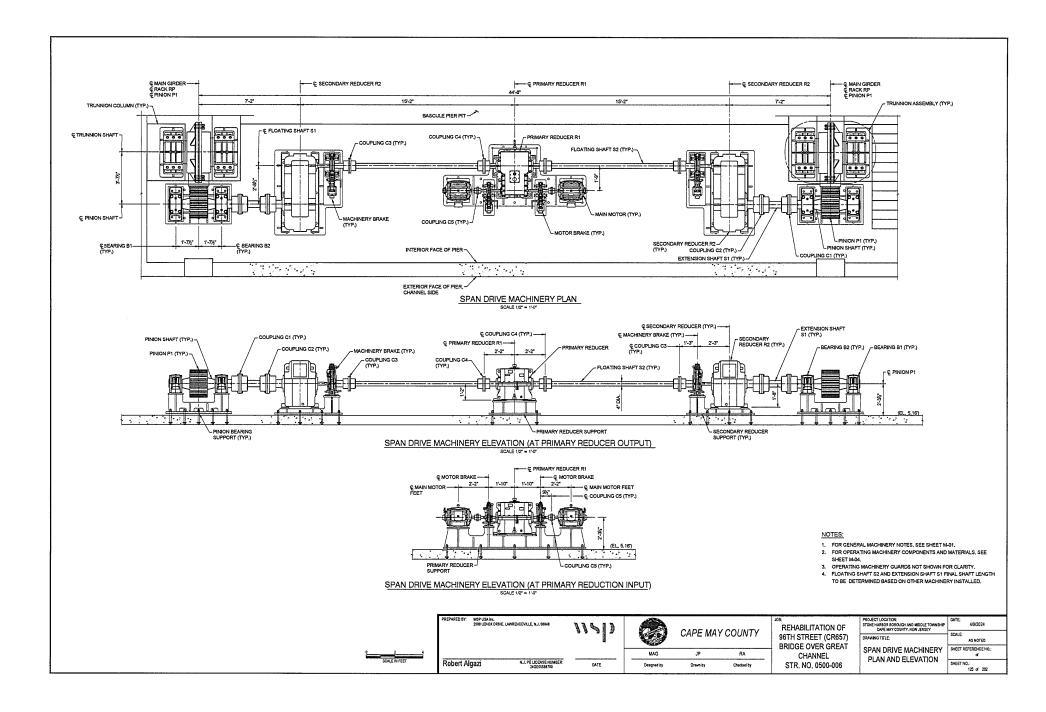
- OPERATING MACHINERY: 1. DURING NORMAL OPERATION (UTILITY), EACH OPERATING DURING NORMAL OPERATING MIGHNEY SASEMBLY IS OSTIGUTUPT, EACH OPERATING SPAN UNFORMLY TO FULL SING MIGHNEY AND A SECONDS, RUN TO CONSTANTSEED IN A MINIMUM OF 10 SECONDS RUN TO CONSTANTSEED, DEGELEMENTE THE SPAN UNFORMLY FOR A MINIMUM OF 10 SECONDS AND CREEP TO ITS FINAL POSITION. THE OPERATING IMALIS APPROXIMATELY TO SECONDS FOR THE LEVE AGAINST A WIND LOAD OF 10 JENG FT, ON ANY VERTICAL PROCECTION OF THE OPEN SPAN, NORMAL AND MAXIMUM ANGLES OF OPENING FOR THE BASCULE LEAVES IS 72.5 DEGREES.
- 2 THE BACK AND THE PINION TOOTH LOADS (TANGENTIAL) AT THE RACK AND THE PINION TOOTH LOADS (TANGENTIAL) AT 100% FULL LOAD MOTOR TORQUE AND RATED SPEED WITH AN OVERALL EFFICIENCY OF 82% IS APPROXIMATELY 41.1 MPS. THE RACK AND PINION TOOTH LOAD (TANGENTIAL) AT THE MAXIMUM STARTING TORQUE REQUIRED AS PER THE 2023 AASHTO LFRD MOVABLE BRIDGE DESIGN IS 81.25 KIPS.

- SPAN LOCK MACHINERY. 1. DURING NORMAL OPERATION, EACH SPAN LOCK MACHINERY ASSEMBLY IS DESIGNED TO SIMULTANEOUSLY DISENSAGEENAAGE RECEIVING SOCKETS LOCATED AT THE TO GYO THE SPAN, WITH THE SPAN SAELED AND THE SPAN LOCKS DRIVEN, THE SPAN LOCK MACHINERY IS DESIGNED TO TRANSITY A MAXIMAN BHARL (DAD OF TSA KIRS, THE OPERATING TIME TO FULL DRIVE THE LOCK BARS IS APPROXIMETEL YI 25 ECODOS.
- 2. DURING MANUAL OPERATION, EACH SPAN LOCK SHALL BE HAND CRANKED. THE TIME REQUIRED TO MANUALLY PULL/DRIVE EACH LOCK BAR IS 10 MINUTES.

SPAN SUPPORT SYSTEM NOTES: 1. THE WEIGHT OF THE LEAF IS SUPPORTED BY THE TRUNNION ASSEMBLY WHERE SPAN LOADS (DEAD LOAD, LIVE LOAD, AND IMPACT) ARE TRANSFERRED TO THE TRUNNION BEARINGS. THE TRUNNION ASSEMBLY INCLUDES TRUNNION SHAFT, PILLOW BLOCK CYLINDRICAL SLEEVE BEARINGS, BEARING HOUSING, AND TRUNNION SHAFT HUB.

PREPARED BY: WSP USA No. 2009 LENOX DRIVE, LAWRENCEVILLE, N.J. 68448	119])		CAPE MA	Y COUNTY	REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STORE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024
		MAG	JP	RA	CHANNEL	GENERAL MACHINERY NOTES	SHEET REFERENCE NO.: of
Robert Algazi NJ. PE LICENSE NUMBER: 24GE05568700	DATE	Designed by	Drawn by	Checked by	STR. NO. 0500-006	NULES	SHEET NO.: 123 of 202





			TORQUE		DRIVING HALF**			DRIVEN HALF**			MANUF
PART	QTY	SIZE	RATING (IN-KIPS)	TYPE	NOMINAL BORE (IN)	KEY (IN × IN)		ID∞R X×F	NOMINAL BORE (IN)	KEY (IN x IN)	
C1	4	1055G52	655.2	SINGLE ENGAGE, GEAR	7	13/4 × 11/2	F	R	7	13/4 × 11/2	FALK
22	4	1055G52	655.2	SINGLE ENGAGE, GEAR	•	•	R	F	7	13/4× 11/2	FALK
ß	4	1035G52	163.8	SINGLE ENGAGE, GEAR	4	1×1	F	R	•	•	FALK
C4	4	1035G52	163.8	SINGLE ENGAGE, GEAR	•	•	R	F	4	1×1	FALK
CS	4	1060T10	6.05	STEELFLEX GRID	•	•	F	F	•	•	FALK

SIZE TO MATCH SHAFTS OF SPECIFIED COMPONENTS, SHAFT SIZE MAY CONTROL COUPLING SIZE.
 FLEXIBLE HUBS ON FLOATING AND EXTENSION SHAFTS.

1			TABLE OF OPERATING MACHINER	BEARINGS			
PART	οτγ	SHAFT DIAMETER (IN)	DESCRIPTION	DYNAMIC	STATIC		
100			Distant Hell	RATING	RATING	MANUFACTURER	
B1	B1 4 7		SPLIT TYPE PILLOW BLOCK WITH SPHERICAL	301.6	382		
	BI 4	'	ROLLER BEARING (FLOAT)	301.6	302	SKF	
87	B2 4 7		SPLIT TYPE PILLOW BLOCK WITH SPHERICAL	201.0	303		
04	B2 4	4 /	ROLLER BEARING (FIXED)	301.6	382	SKF	

		TABLE OF OP	ERATING MACHINE	ERY BRAKES	
PART	QTY	TORQUE SETTING (LB-FT)	NEMA TORQUE RATING (LB-FT)	WHEEL DIA. (IN)	MANUFACTURER
MOTOR BRAKE	4	90	100	8	BUBENZER
MACHINERY BRAKE	4	600	550	13	BUBENZER

			т	ABLE OF OPERATING MACHINERY GEARING		
ID	PART	QTY	RATIO	DESCRIPTION	TORQUE RATING AT 1.0 AGMA SERVICE FACTOR (FT-KIPS)	MANUFACTURER
RP	RACK SEGMENT	ENT 4 7.10		3.5 IN CIRCULAR PITCH 20 DEG INVOLUTE	63.6	
P1	PINION	4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FULL DEPTH	(AT PINION SHAFT)	-
R1	PRIMARY REDUCER	2	13.95:1	CUSTOM DOUBLE REDUCTION PARALLEL SHAFT DIFFERENTIAL REDUCER MAIN INPUT: 25 HP AT 864 RPM THROUGH HARDENED GEARING	1.59 (AT OUTPUT SHAFT)	NUTTALL
R2	SECONDARY REDUCER	4	40:1	CUSTOM TRIPLE REDUCTION PARALLEL SHAFT REDUCER SINGLE INPUT AND SINGLE OUTPUT. INPUT: 12.5 HP AT 62 RPM THROUGH HARDENED GEARING	63.6 (AT OUTPUT SHAFT)	NUTTALL

	OPERAT	NG MACHINERY MATERIAL LIST	
ID	COMPONENT	MATERIAL	DESIGNATION
RP	RACK SEGMENT	ALLOY STEEL FORGING	ASTM GRADE A290 GRADE 4 CLASS I
P1	PINION AND INTEGRAL SHAFT	ALLOY STEEL FORGING	ASTM GRADE A291 GRADE 7 CLASS H
S1	EXTENSION SHAFT	ALLOY STEEL FORGING	ASTM A668 CLASS D
52	FLOATING SHAFT	ALLOY STEEL FORGING	ASTM A668 CLASS D
	KEYS	ALLOY STEEL FORGING	ASTM A668 CLASS K
-	SHIMS	STAINLESS STEEL	ASTM A240, TYPE 316

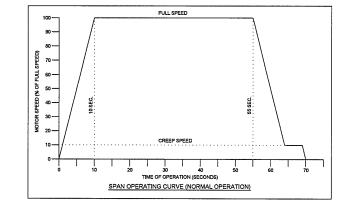


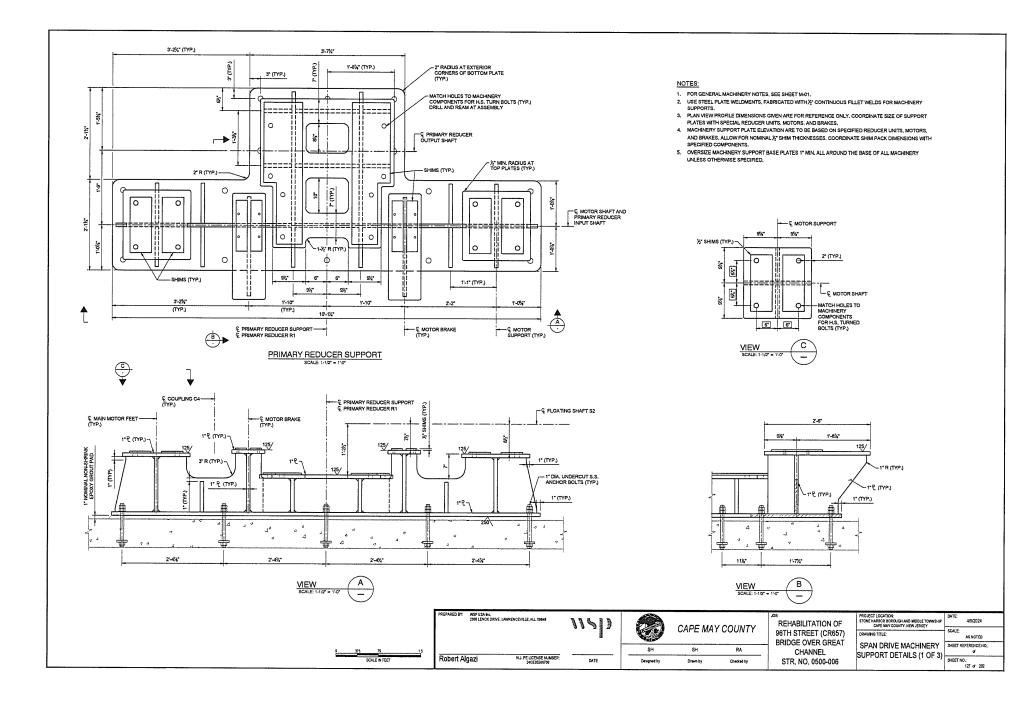
TABLE OF REQUIRED MOTOR TORQUES			
Starting Torque, Ts	123.2 ft-lb	Constant Velocity Torque, Tcv	107.1 ft-lb
Acceleration Torque, Ta	55.0 ft-lb	150% Motor Rated Torque	227.96 ft-lb

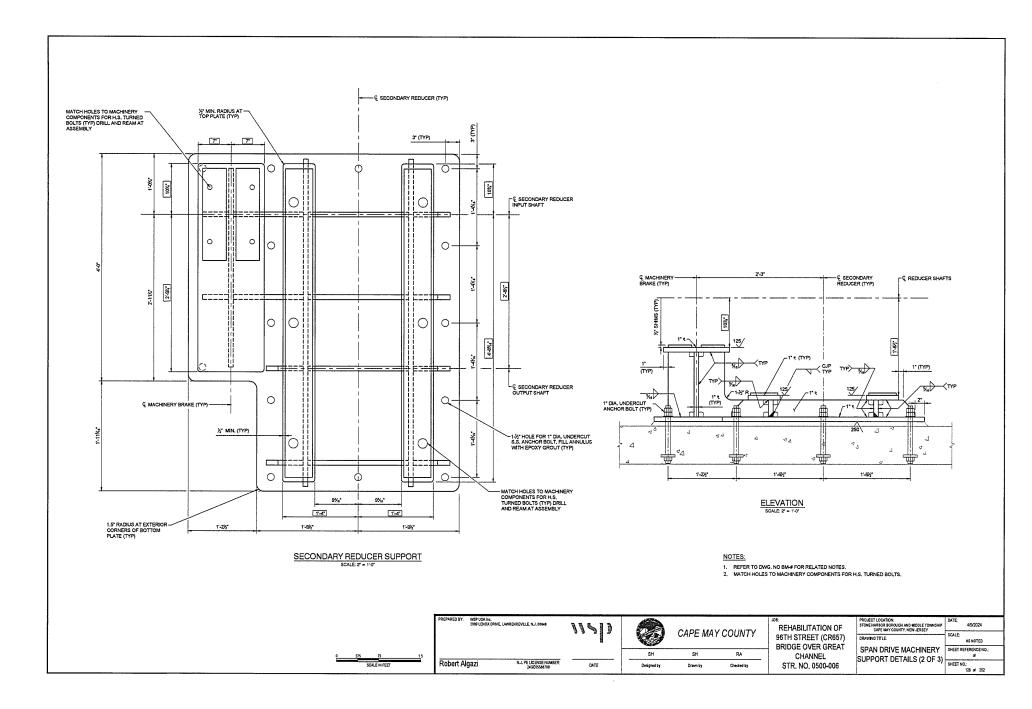
INCLUDES THE EFFICIENCIES OF THE GEARS.

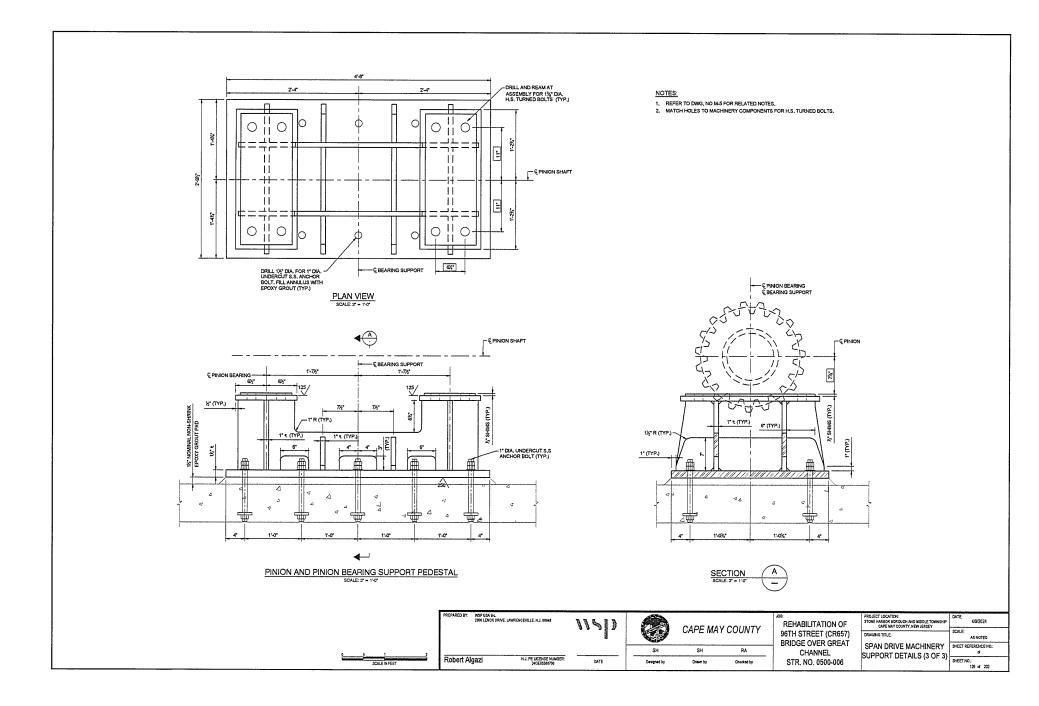
NOTES:

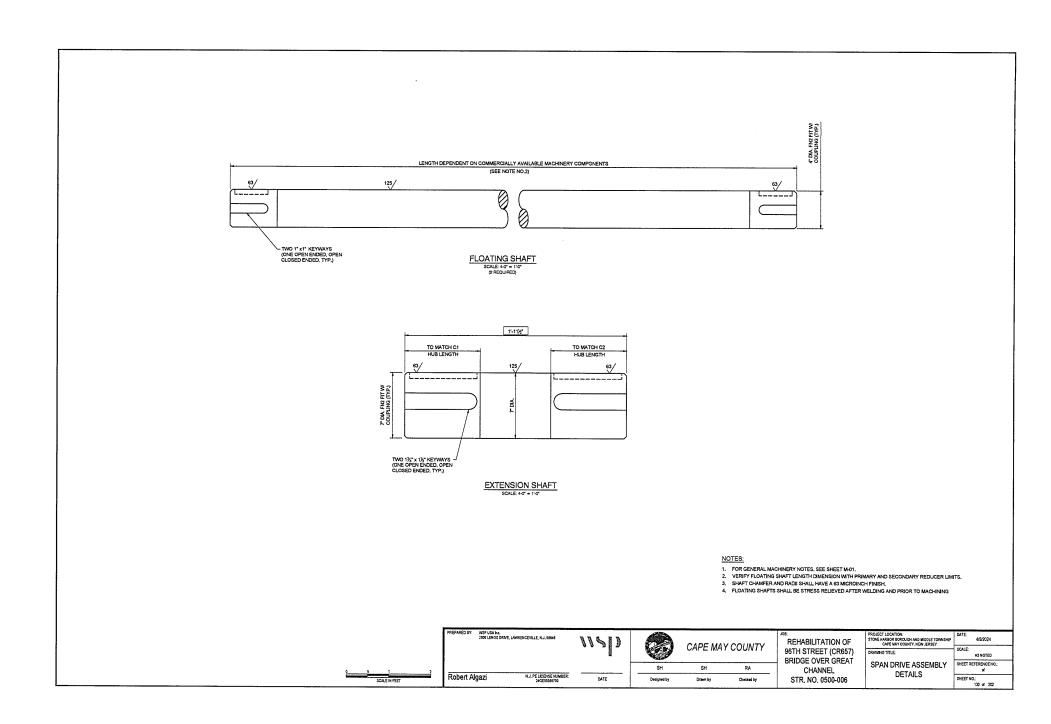
1. FOR GENERAL MACHINERY NOTES, SEE SHEET M-01, 2. MANUFACTURERS SHOWN OR AN APPROVED EQUAL MAY BE CONSIDERED,

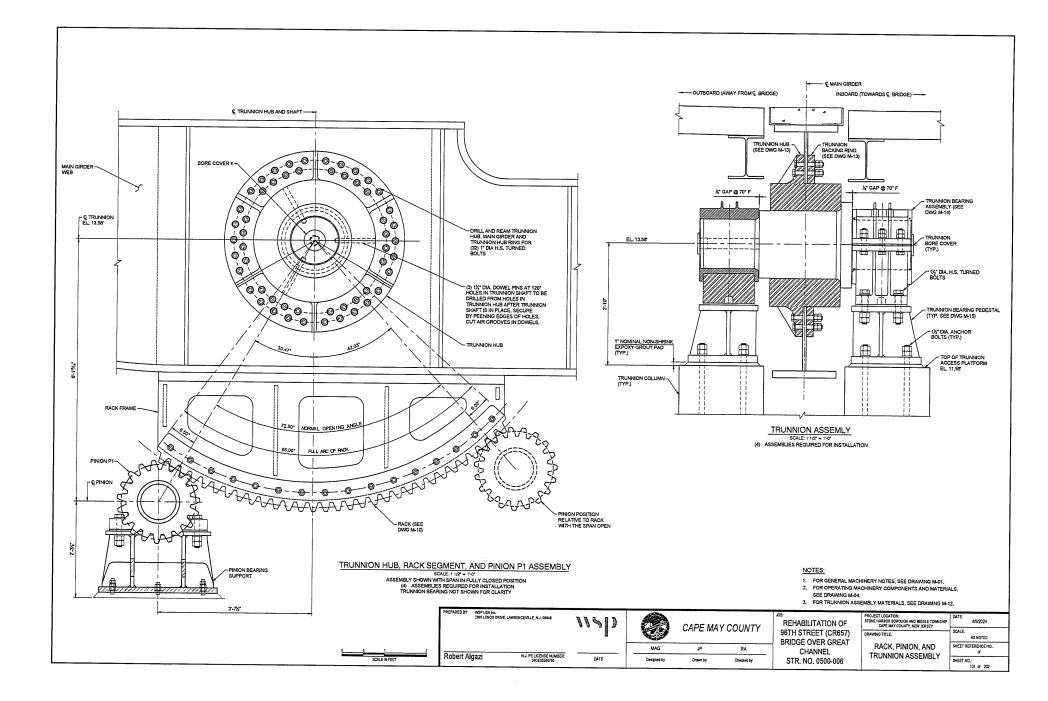
EPARED BY: WSP USA Inc. 2009 LENOX DRIVE, LAWRENCEVILLE, N.J. 0848 PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY Ś 4/9/2024 1191) REHABILITATION OF CAPE MAY COUNTY 96TH STREET (CR657) SCALE: DRAWING TITLE: AS NOTED BRIDGE OVER GREAT SPAN DRIVE MACHINERY SHEET REFERENCE NO .: RA MAG JB CHANNEL TABLES Robert Algazi N.J. PE LICENSE NUMBER: 24GE05566700 SHEET NO.: 126 of 202 DATE STR, NO, 0500-006 Designed by Drawn by Checked by

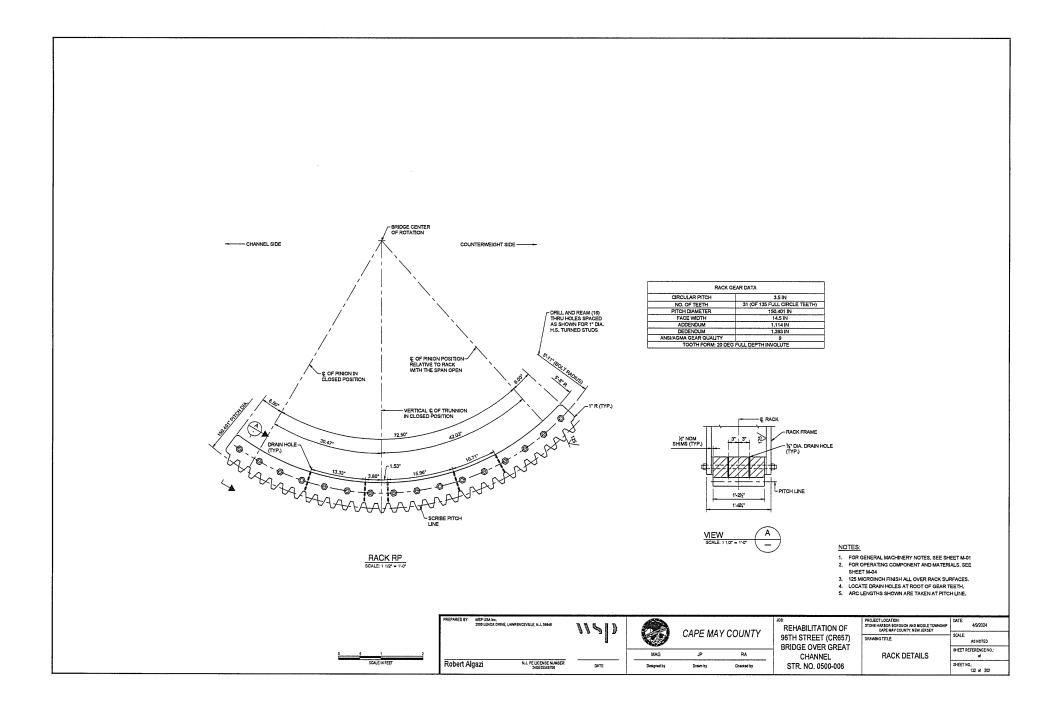


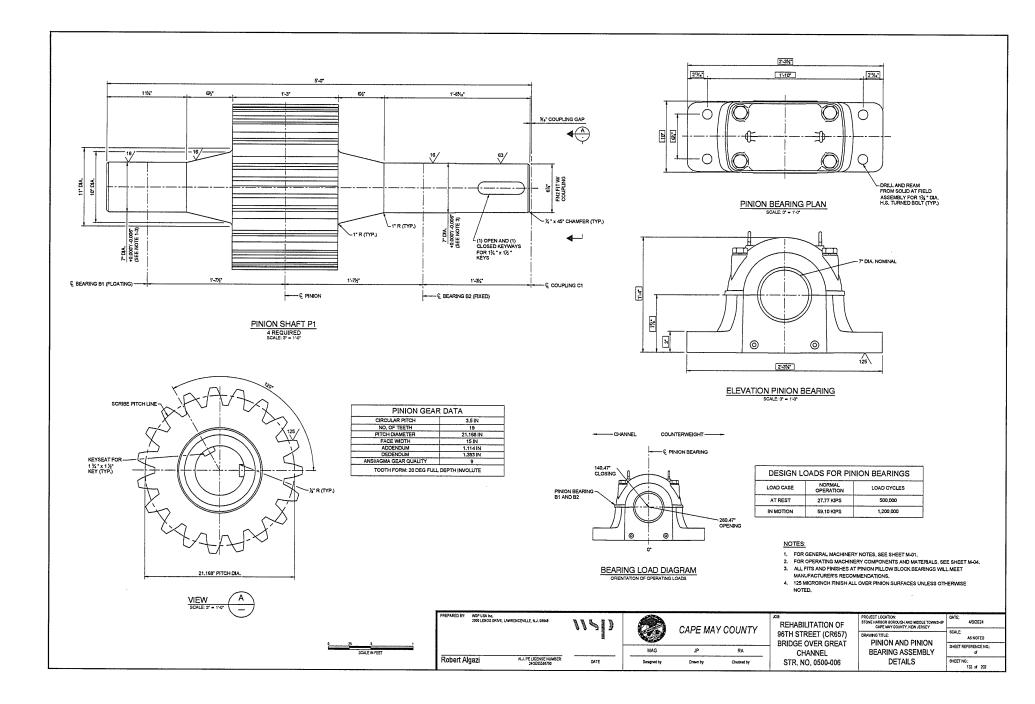


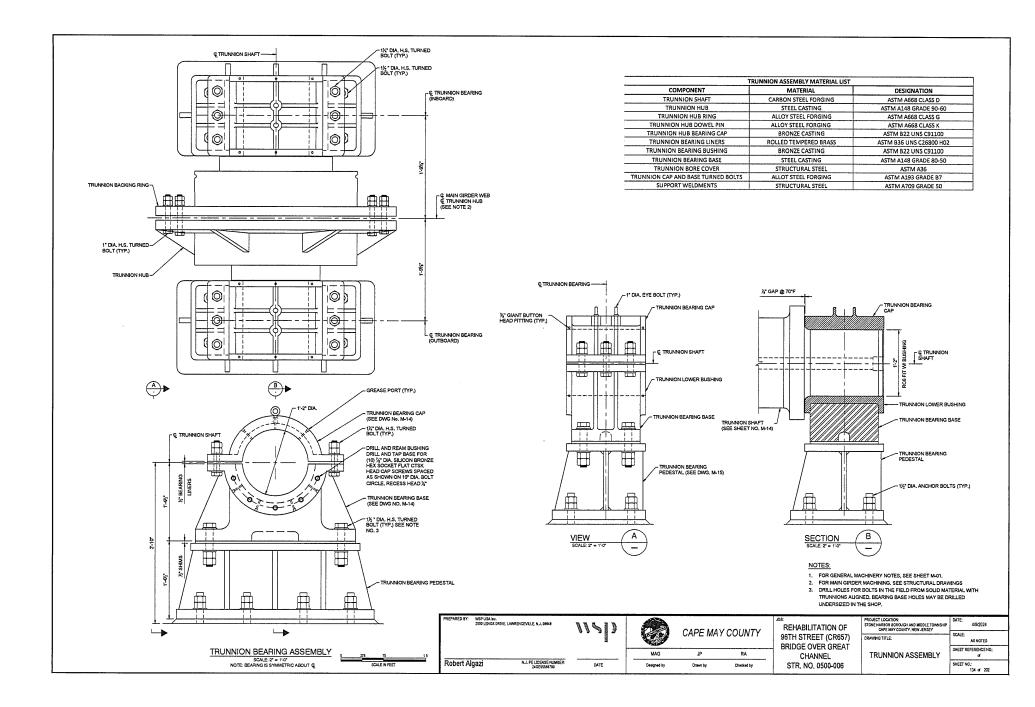


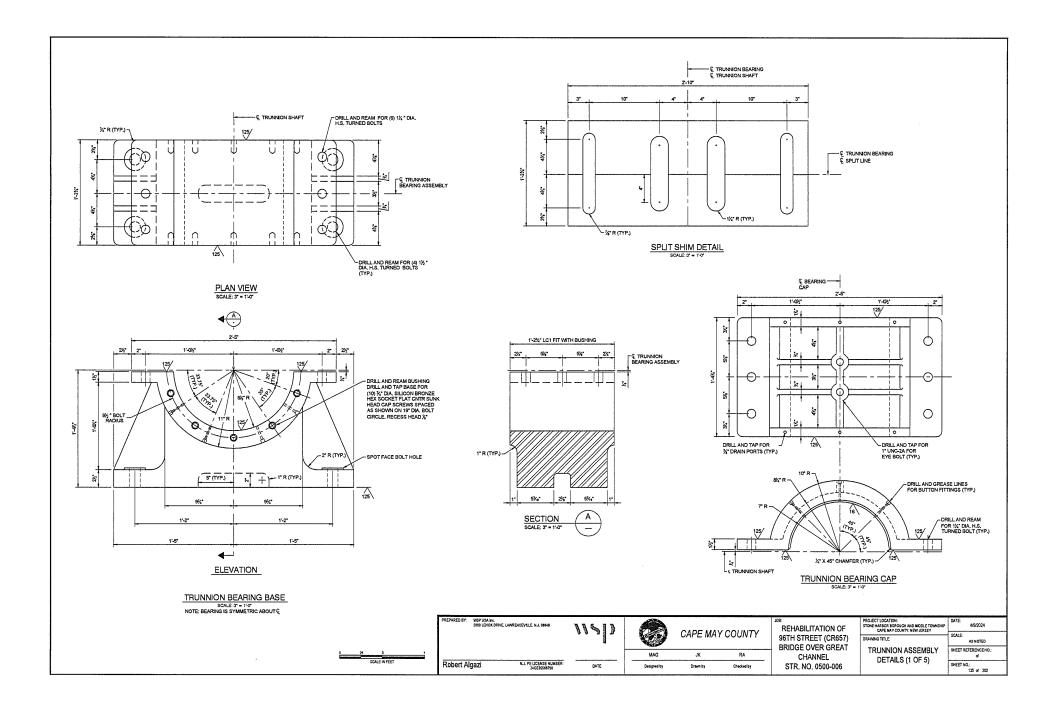


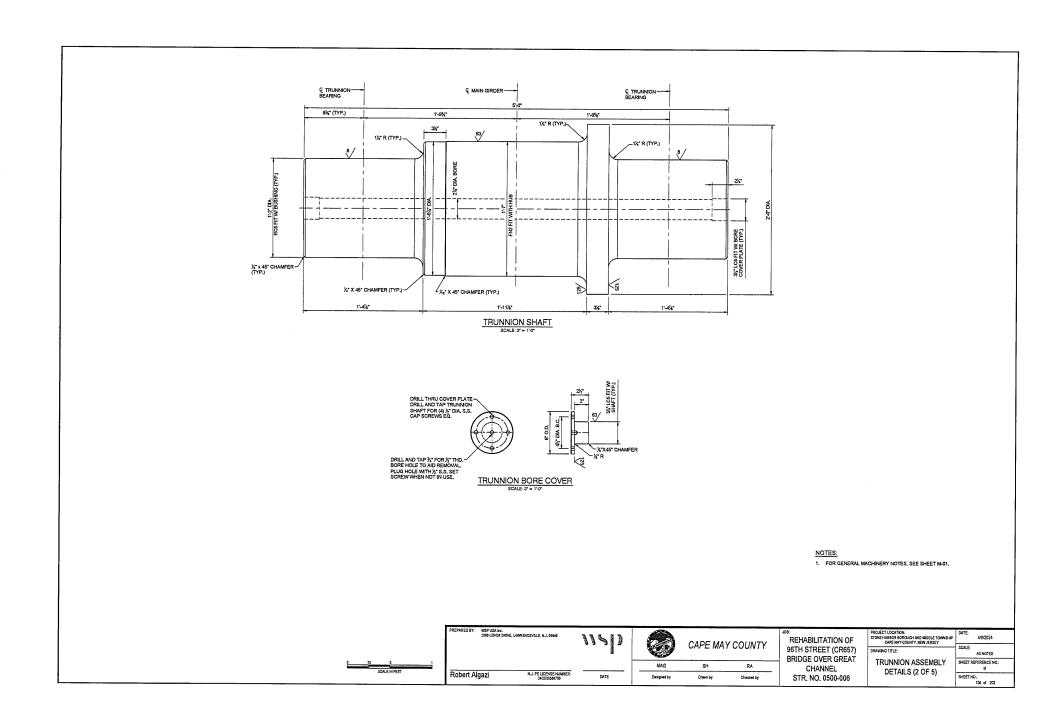


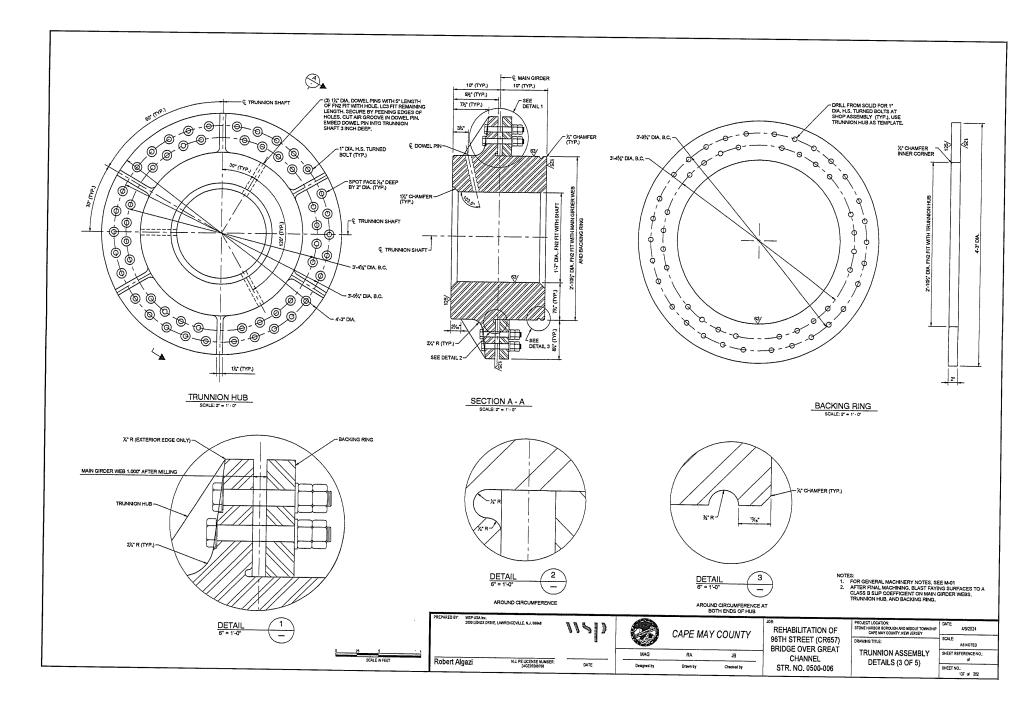


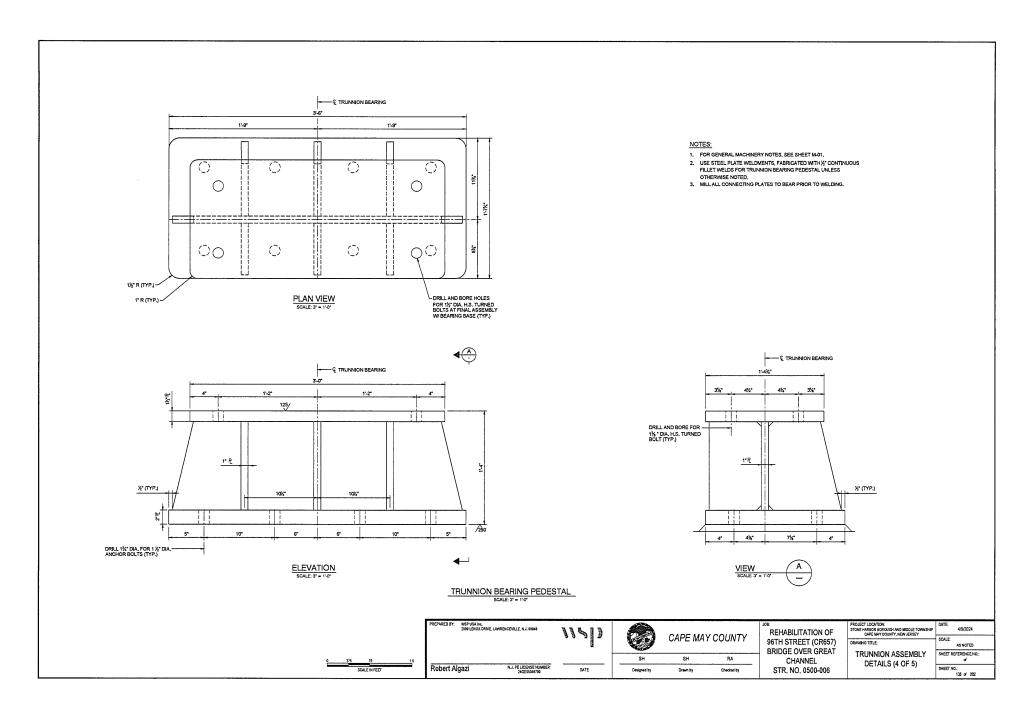


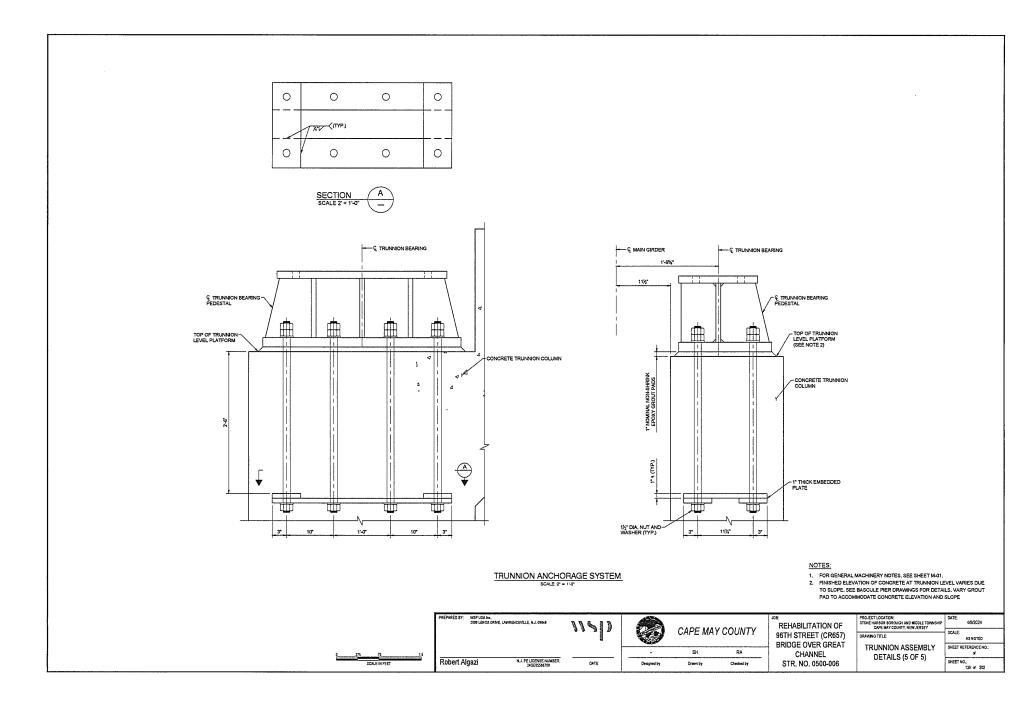


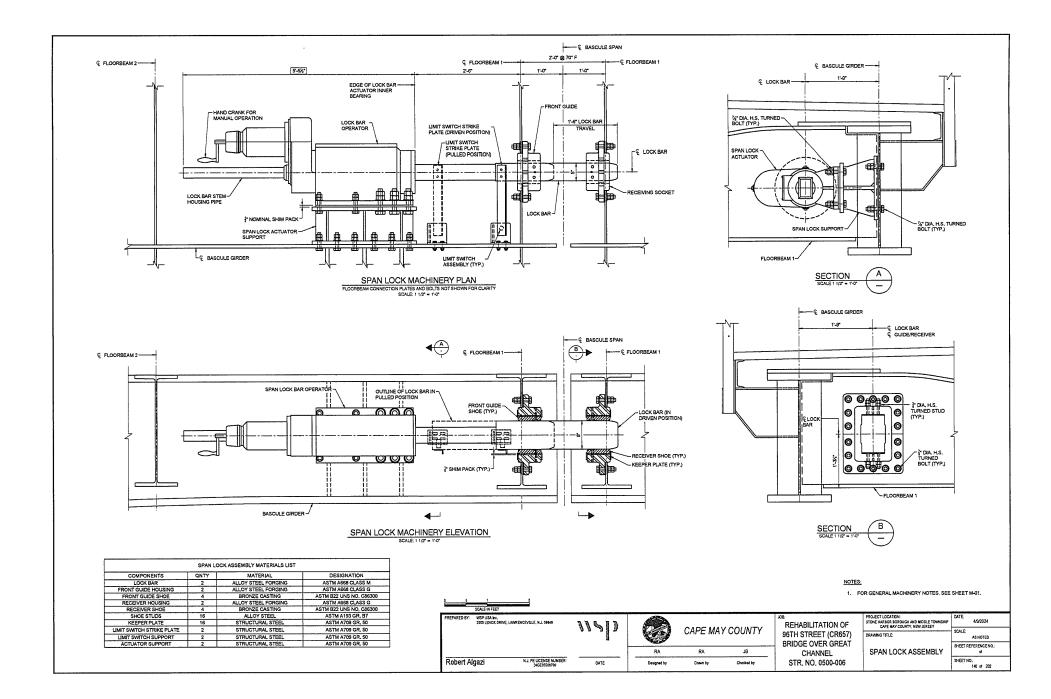


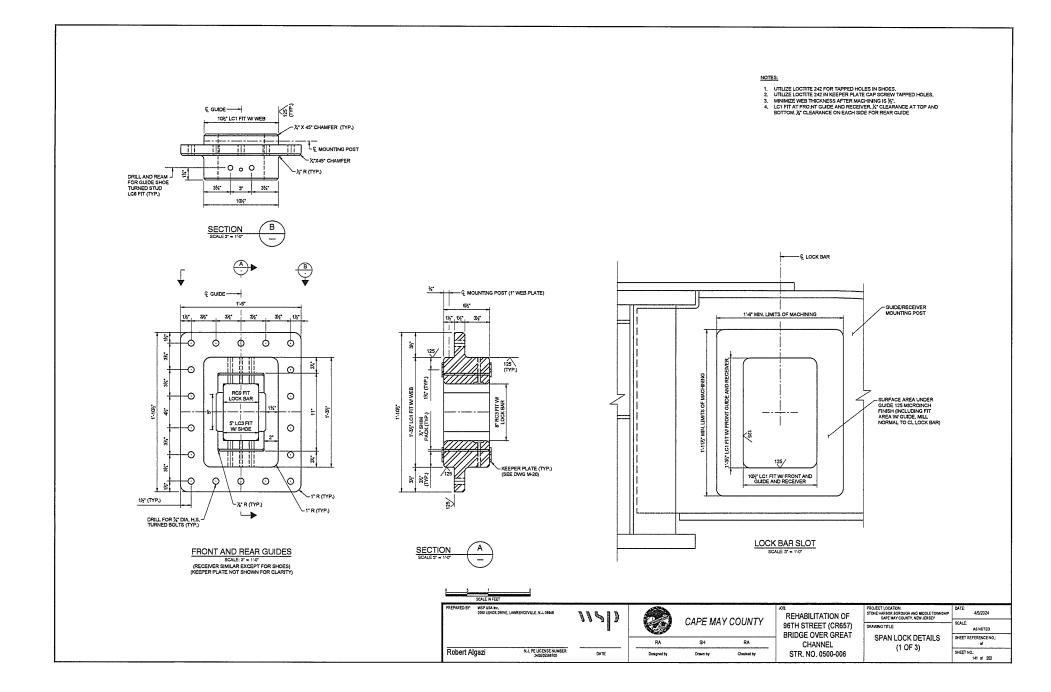


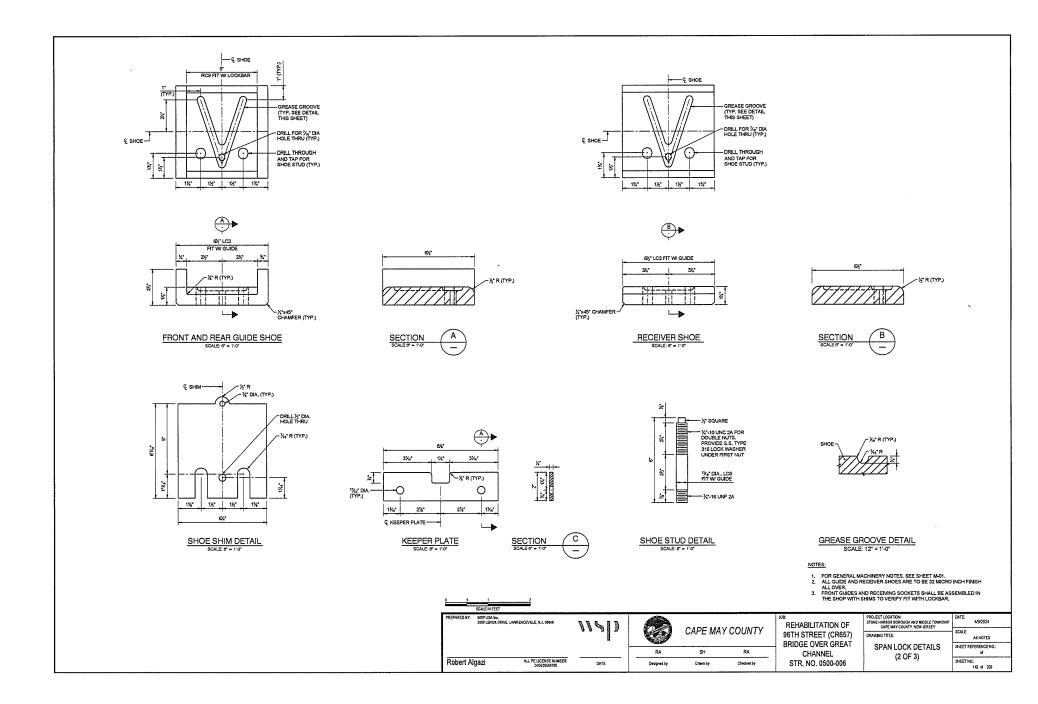


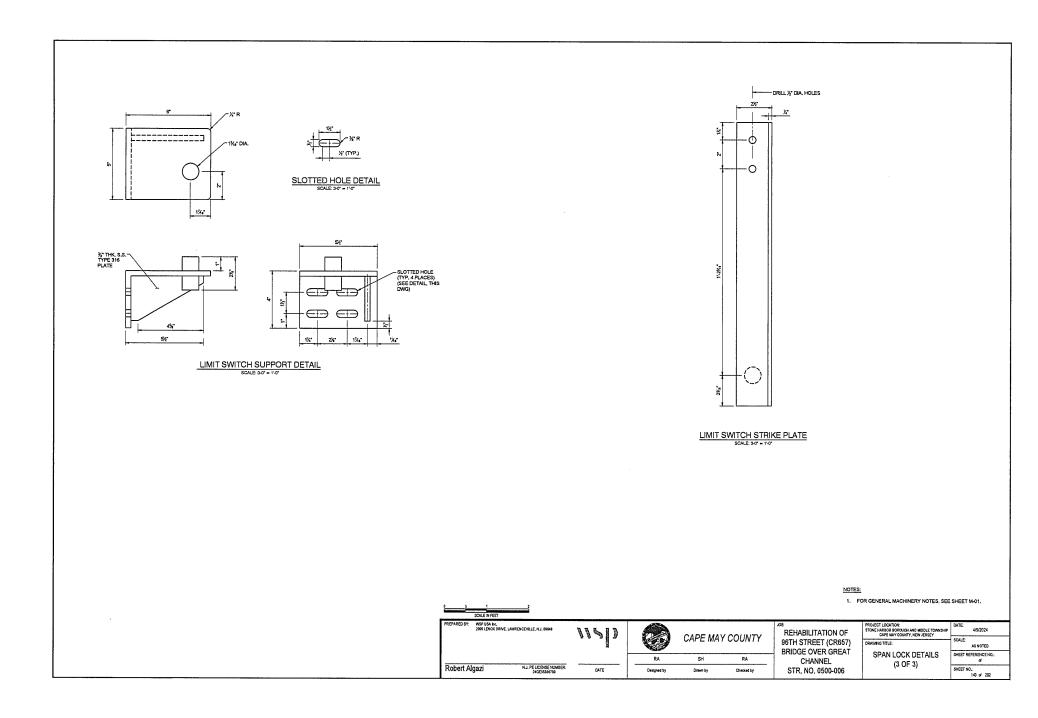


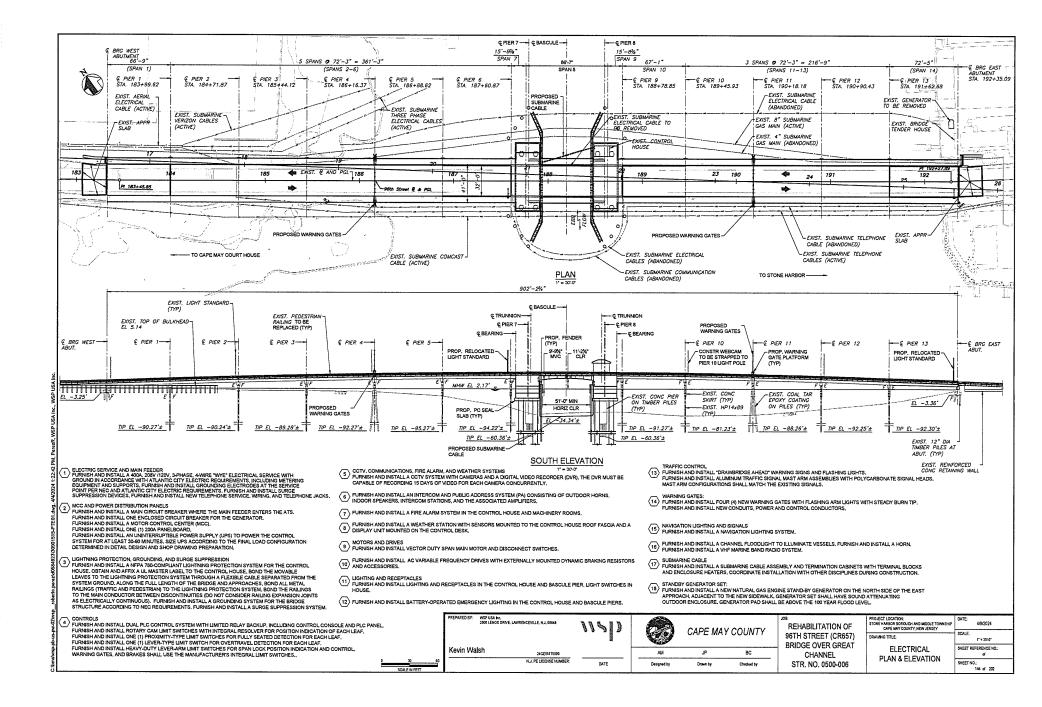


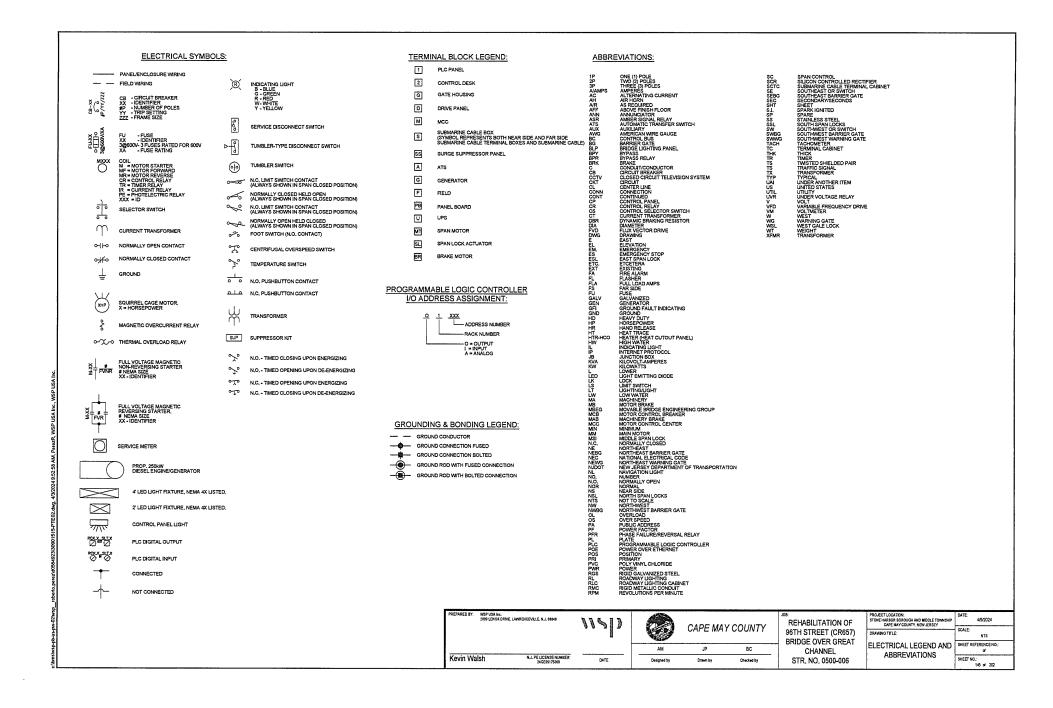












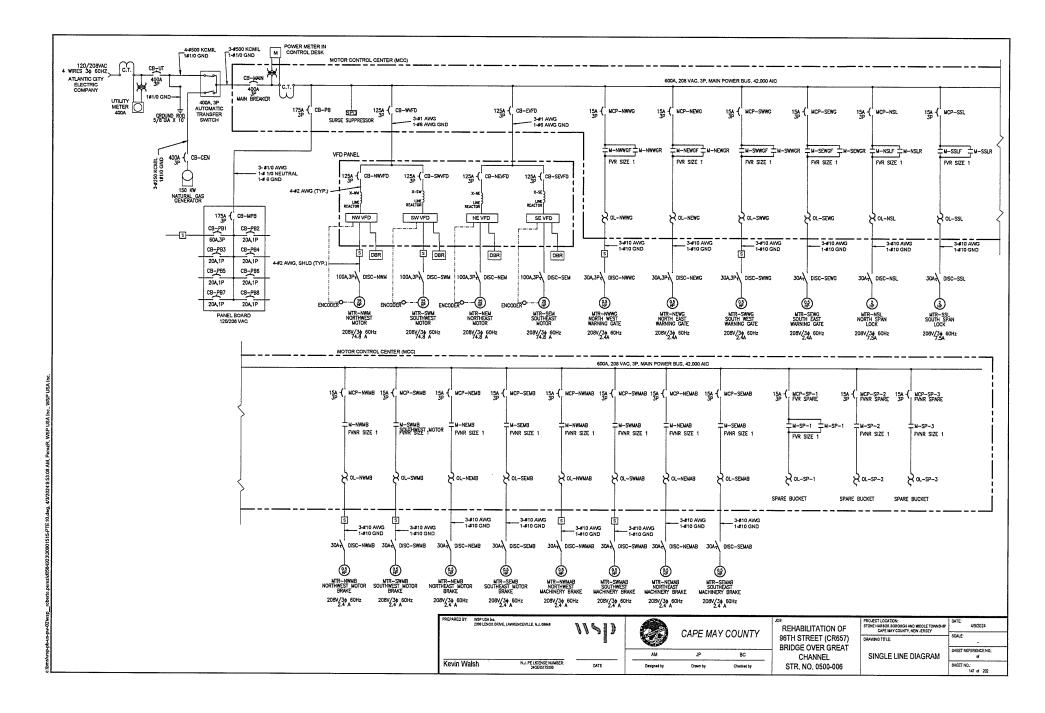
GENERAL ELECTRICAL NOTES:

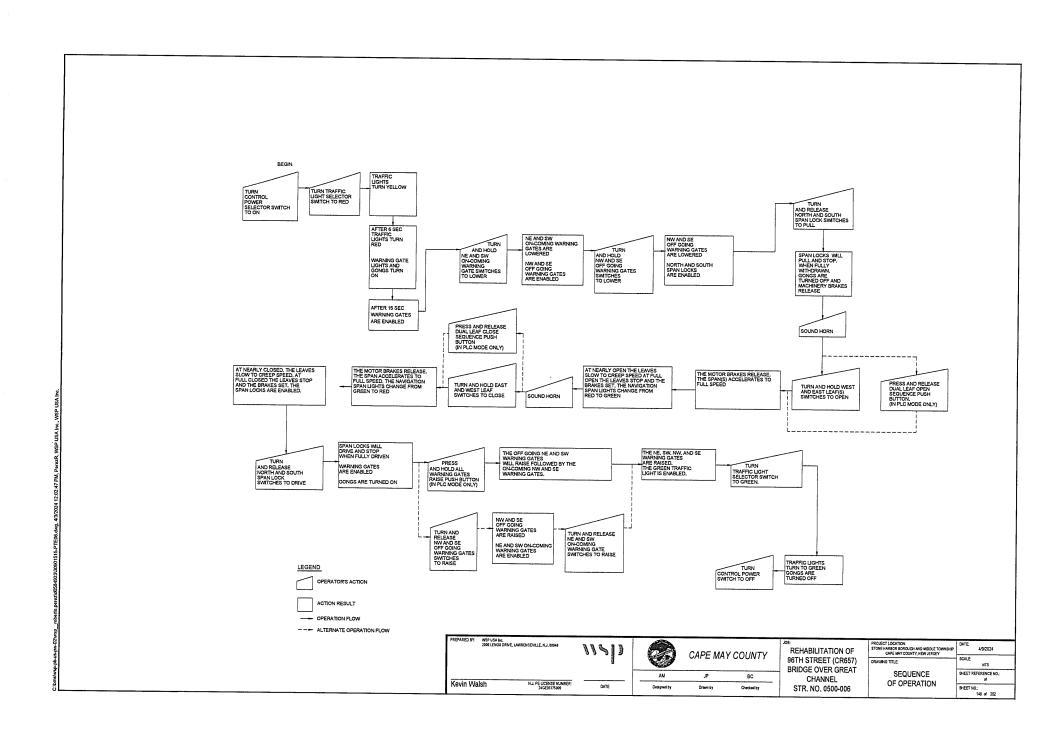
- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE, ASHTO, U.S., COAST GUARD, NEW JERSEY DEPARTMENT OF TRANSPORTATION, MOVABLE BRIDGE ENGINEERING GROUP, AND LOCAL ORDINANCES & REGULATIONS.
- 2. PROVIDE EQUIPMENT GROUNDING AND BONDING PER NATIONAL ELECTRICAL CODE ARTICLE 250 REQUIREMENTS, ALL JUNCTION BOXES SHALL BE GROUNDED AND BONDED (DOOR, BACK PANEL, AND HOUSING).
- 3. ALL WIRKING AND CONDUCT PURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW. SELECT ALL WIRES TO BE TYPE X/P STRANDED COPPER, WITHINSLAUTOR NATE OF ROOVOLT, F AN AND MINIMUM, PYCE COATED RIGID GALVANZED STEEL THINNIMUM SIZE CONDUCT UNLESS OTHERWISE NOTED. ALL EXISTING WIRKING AND CONDUCT, IF REPLACED WITH NEW, SHALL BE DISCONNECTED AND REMOVED. MAXIMUM LENGTH OF FLEXIBLE METALLIC CONDUCT SHALL NOT EXCEED IS INFORMED. MAXIMUM LENGTH OF FLEXIBLE METALLIC CONDUCT
- 4. USE SEAL TIGHT, METALLIC LIQUID TIGHT FLEXIBLE CONDUIT WITH INTERNAL GROUNDING, FOR FINAL CONNECTIONS TO MOTORS, AND LIMIT SWITCHES OR ANY EQUIPMENT THAT MAY EXCESSIVE VIBRATION, SUPPORT METALLIC FLEXIBLE CONDUITS WITHIN 3 FEET OF THE DEVICES OR JUNCTION BOXES.
- 5. INSTALL ALL CONDUIT SUPPORTS PER ASHTO LERD MOVAELE HIGHWAY BRIDGE TOTAL ANGULAR CONDUIT SUPPORTS PER ASHTO LERD MOVAELE HIGHWAY BRIDGE TOTAL ANGULAR CONDUIT BEINDS BETWEEN PLULUINGTON BOXES TO 2170 GERES. RADUS OF CONDUIT BEINDS SHALL BE PER NE. C. 2020 ARTICLE SALES, ALL PLUL BOXES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. IF REQUIRED, ADDITIONAL BOXES AND LE PROVIDE WITHOUT ADDITIONAL COST TO CONTY.
- 6. RUN ALL CONDUTS AT RIGHT ANGLES OR PARALLEL TO BRIDGE HOUSE/BRIDGE LINES, RACK NEATLY AND FASTEN SECURELY, USE INSULATED BUSHINGS AND DOUBLE, NTS, ROYOUP EULUNCTION BOSKAS A REQUIRED TO ACILITATE WRING, METALLIC LIQUID TIGHT CONDUT HUBS SHALL BE USED AT ALL LOCATIONS WHERE CONDUTS ENTER BOXES OR ENLOSURES, PUC COATED WHERE REQUIRED,
- CONDUIT AND WIRE MAY BE SUBJECTED TO SUCH MODIFICATIONS AS REQUIRED TO SUIT CONDITIONS AT BRIDGEHOUSE OR OF EQUIPMENT AND TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES, ALL CONDUIT TO BE PROPERLY GROUNDED AND BONDED USING PROPER GROUNDED TITINGS.
- 8. FURNESH AND INSTALL EXPANSION INTINING WITH INTERNAL OROUNDING AND BONDING OF THE APPOINT DRY BURGEVIER CONDUCTIVE TASES THEOLOGY. STRUCTURAL BEPANSION JOINTS, EXPANSION/DEFLECTION FITTINGS NOT SHOWN ON THE PLAN SHALL BE FURNESHED AND INSTALLED AS INCESSARY ON DETERMINED IN THE FILEL DEVANSION AND DEFLECTION FITTINGS SHALL NOT BE USED TO CORRECT POORLY ALIONED CONDUTS. ANY CONCULTURALLATIONS OF MEETING THIS REQUIREMENTS WILL BE RESCRED.
- 9. BREATHERS AND DRAINS MUST BE PROVIDED IN ALL JUNCTION BOXES. HOLE SIZE AS REQUIRED BY APPROVED DRAIN/BREATHER FITTING.
- 10. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE APPROXIMATE, EXACT LOCATIONS SHALL BE DETERMINED BASED UPON APPROVED SHOP DRAMINGS AND ACCURATE FIELD MEASURED DIMENSIONS, STRIP HEATERS MUST BE PROVIDED FOR OUTSIDE EQUIPMENT.
- ILUPON COMPLETION OF ELECTRICAL INSTALLATION. THE CONTRACTOR SHALL TEST THE COMPLETE ELECTRICAL SYSTEM FOR ACCEPTANCE AS PER SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS. THE SYSTEM SHALL BE TESTED STEP FOR SHORT CIRCUITS, GROUNDS, PROPER OPERATION, AND INTERLOCKS IN THE PRESENCE OF THE ENGINEER MANUFACTURER, AND COUNTY PRESENTATIVE. ALL PROVISS SHALL BE RECORDED. THE CONTRACTOR SHALL DEVELOP A DETAILED TESTING PROCEDURE TO BE APPROVED BY THE ENGINEER OF RECORD.
- THE LECTROL EQUIPMENT BEING REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR AT DECOUNTY & LOUT TO ELEVERED TY, AND TO MANNE TO CLURCH TO BE URRED OVER AT DECOUNTY & LOUT TO ELEVERED TY, AND TO MANNE TO CLURCH TO BE URRED OVER DETERMINED THE EXCILATE TWO WEEKS PROTO THE ELEVENTHE BING REMOVED. ALL HANDLING AND DELIVERY INCLUDING LOADING OF MICO ADDING OF MARCES SHALL BE INCLUDE WINNING GATES BEILIVERY INCLUDING LOADING AND DELIVERY INCLUDING ADDITION TO ANY OTHER ITEMS DEBUGED MECESSARY FOR SALVAGE BY THE ENGINEER AS FEM LIST IN THE SPECIAL PROVISIONS.
- 13. EACH RELAY AND CONTACTOR SHALL BE FURNISHED WITH MANUFACTURER'S SUPPRESSOR KIT, AS REQUIRED.
- 14. THE CONTRACTOR SHALL INCLUDE ON EACH SHEET OF THE ELECTRICAL SCHEMATICS AND SHOP DRAWINGS, AN ALPHABETICAL LIST OF ALL SYMBOLS WITH DESCRIPTIONS.
- 15, ALL CONTACTORS SHALL BE PROVIDED WITH 2 NORMALLY OPEN AND 2 NORMALLY CLOSED AUXILIARY CONTACTS.

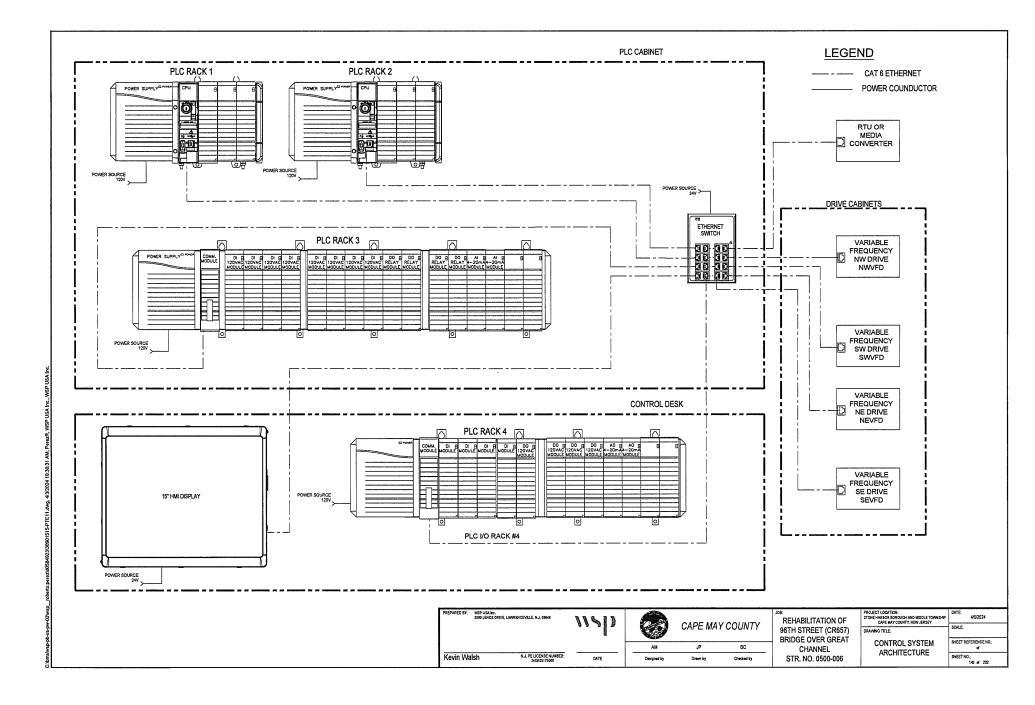
16. FURNISH AND INSTALL BRASS TAGS ON BOTH ENDS OF ALL CONDUITS.

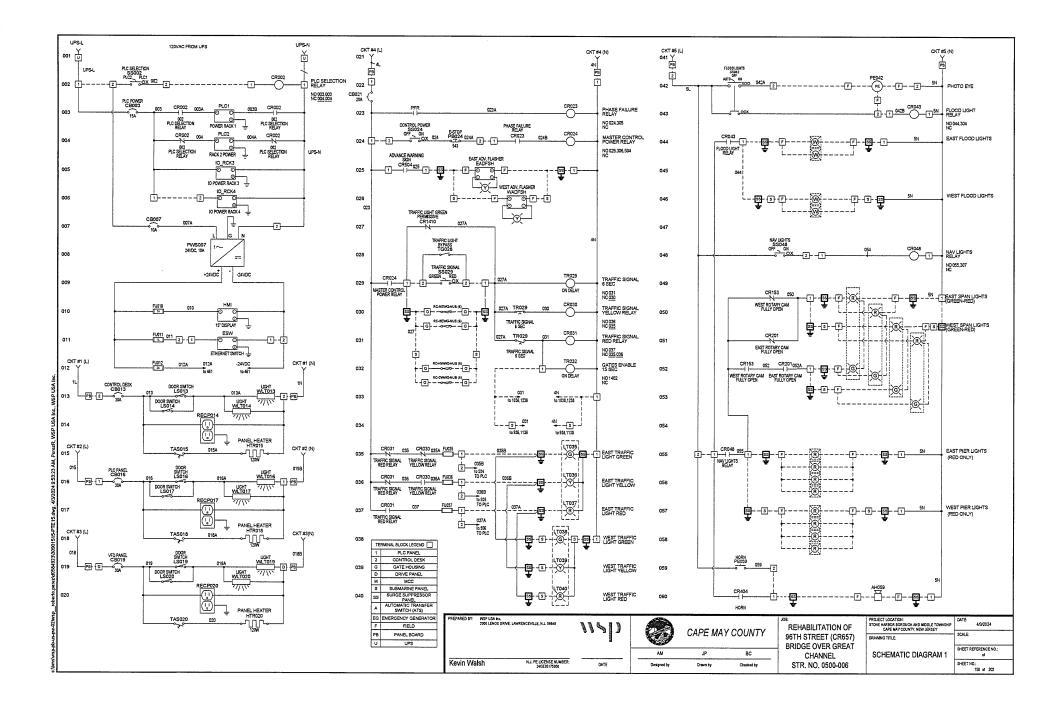
NSN I

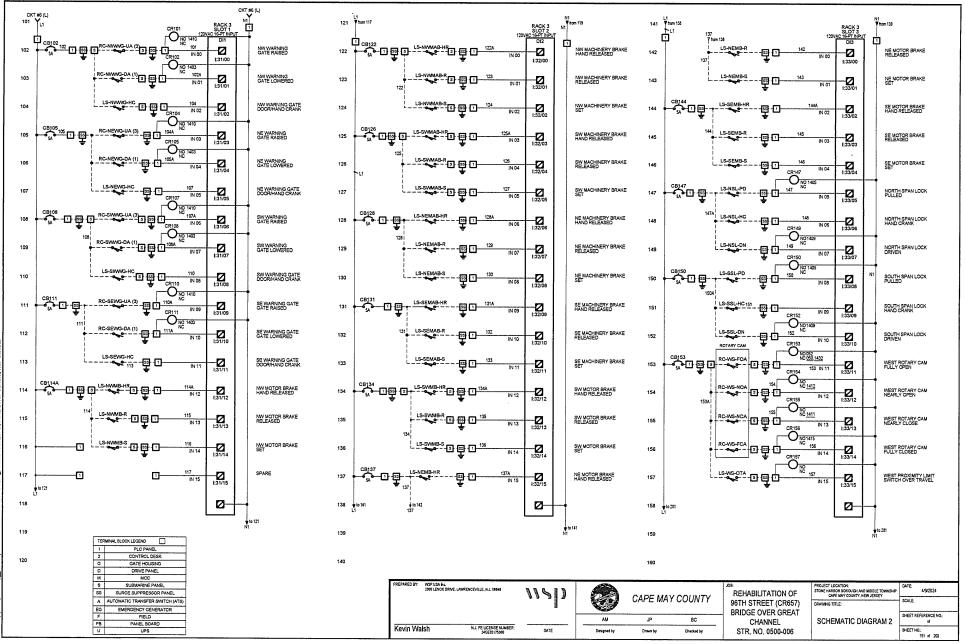
PR	IEPARED BY; WSP USA he, 2009 LENOX DRIVE, LAWRENCEVILLE, NJ, 6848	119])		CAPE MA	Y COUNTY	REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STORE HARBOR BOROLICH AND MIDDLE TOWNSHIP CAPE NAY COUNTY, NEW JERSEY DRAWING TITLE	DATE: 4/9/2024 SCALE: NTS SHEET REFERENCE NO.:
			AM	JP	BC	CHANNEL	ELECTRICAL GENERAL NOTES	of
Ī	Kevin Walsh N.J. PE LICENSE N. 24GE0517500		Designed by	Drawn by	Checked by	STR. NO. 0500-006	NOTES	SHEET NO.: 146 of 202





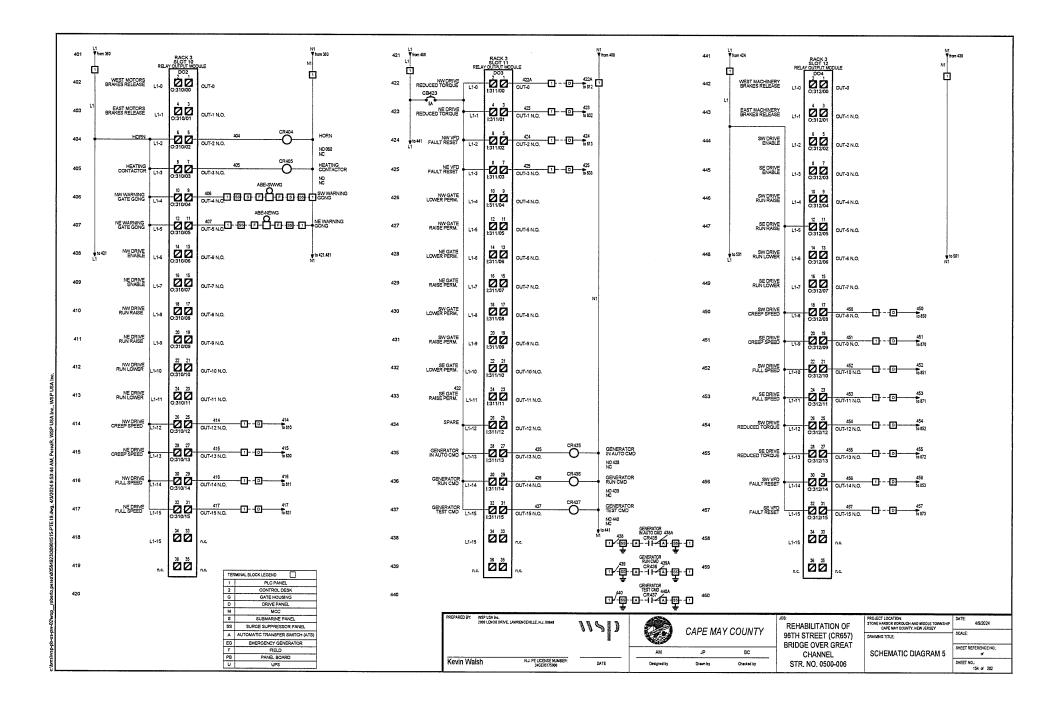


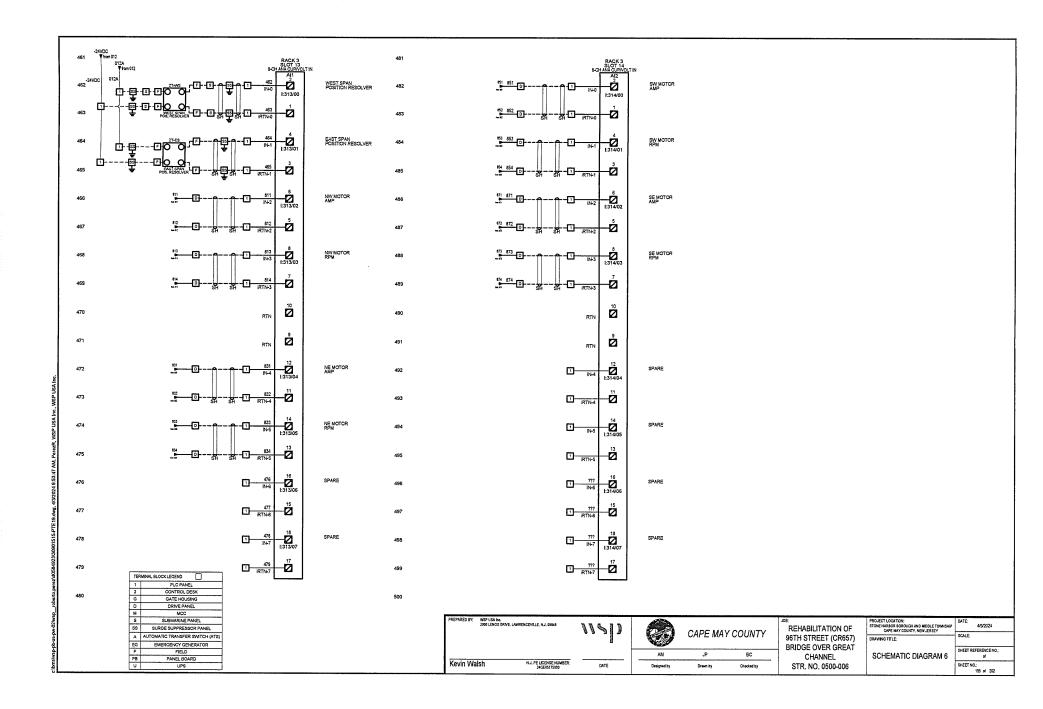




	11 201 Yan 153	N1 ACK 3 N1 OT A N1 Then 159	L1 221 ∳fram 218	N1 RACK 3 N1	241 ¥ron 231	RACK 3 SLOTE NI 1204/CJAFT PAUL 1006
	U CB202 202 ← 3 ← U - 53 +	EAST ROTARY CAM FULLY OPEN				IN 00 DI NW WARNING GATE
	203 RC-ES-NOA				243	IN 01 1:36/01 SW WARNING GATE
		EAST ROTARY CAM NEARLY CLOSE		ME MOTOR BRAKE DISCONNECT	244	IN 02 1:30/02
	205 • • • • • • • • • • • • • • • • •	Z EAST ROTARY CAM FULLY CLOSED		5 SE MOTOR 103 1:35/03 BRAKE DISCONNECT		IN 03 1:36/03
		EAST PROXIMITY LIMIT SWITCH OVER TRAVEL		6 NW MACHINERY 104 I:35/04 BRAKE DISCONNECT	1 1309	IN D4 1:39/04
	207 100 100 100 100 100 100 100 100 100 1	AV05		7 SW MACHINERY 105 1:35/05 BRAKE DISCONNECT	247 CLSSL 	1:36/05
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	208 • • • • • • • • • • • • • • • • • • •	SW VED FAULT		1:35/06		1:36/06
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	209 10 10 10 10 10 10 10 10 10 10 10 10 10	Savo7	229 DISC-SEMAB	1:35/07	_	1:36/07
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	210 tem 65 0 1 iv 08	SAUDE SE VED FAULT		1:35/08		1:36/08
	211 tos 8	S409	L1	1:35/09	Dischick	1:36/09
$ \frac{1}{2} 1$		34/10	232 +	1:35/10	↓	1:36/10
214 mm mm <t< td=""><td>213 toon P30</td><td>34/11</td><td></td><td>N 11 I:35/11 BRAKE OVERLOAD</td><td></td><td>0 1521,1531</td></t<>	213 toon P30	34/11		N 11 I:35/11 BRAKE OVERLOAD		0 1521,1531
	214 to a 5 1 IN 12	34/12		1:35/12	254 ton t18 CR255	IN 12 1:36/12
	215A	34/13		1:35/13		1:36/13
	CB217 CENLEAN	24 34/14	236	1:35/14		IN 14 I:36/14 TORQUE PROVING
219 220 TERMINAL BLOCK LEERIN COLLECTION OF 3 SUBMARINE PANEL 5 SUB	Ť Ť	34/15	237 L	1:35/15		IN 15 L36/15 TORQUE PROVING
240 260 260 260 260 260 260 260 260 260 26]				
230 G CATE HOUSING D DRIVE PAREL N MCC 5 SUBMARINE PAREL 5 SUBMARI		i to 221 N1		Ň		NI
EG EMERGENCY GENERATOR F FIELD PB PNELBOARD	220 G GATE HOUSING D DRIVE PANEL M MCC S SUGMARIKE FANEL SS SUGMARIKE FANEL A AUTOMATIC TRANSFER SWITCH (ATS) EG EMERGENCY GENERATOR F FIELD				CAPE MAY COUNTY	DRAWING TITLE:

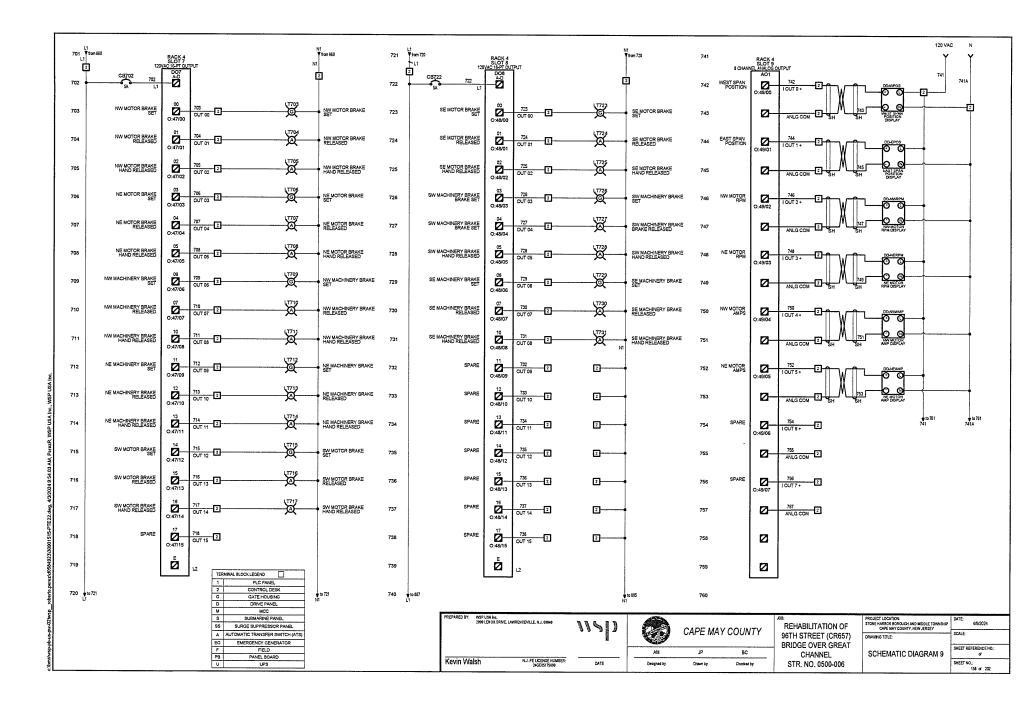
			··· ··· ···										
WLSFS CR302	RACK 3 SLOT 7 120VAC 16-PT INPUT	N1 V from 259	321 ♥tam 319		120	RACK 3 SLOT 8 /AC 16-PT INPUT	N1 V from 319	341		L1 V from 339	RACK 3 SLOT 9 COLITENT MODULE		N1 from 339 N1
~~[]- (왕- 19 - ~~ 19 - (왕- 1) - ~~~~	DI7	WEST LIMIT SWITCH FULLY SEATED	322 CB322		1 322A IN 00		SPARE	342	NW WARNING GATE LOWER	L1-0			
	IN 01 1:37/01	EAST LIMIT SWITCH FULLY SEATED	323	Ū	1 323 IN 01	1:38/01	SPARE	343	NW WARNING GATE RAISE	64	1:39/01 or	JT-1 N.O.	
	IN 02 1:37/02	FLOOD LIGHTS ON	324		1 324 1N 02	1:38/02	SPARE	344	NE WARNING GATE LOWER	L1-2	6 5 1:39/02 OI	л-2 N.O.	
CR023 305	IN 03 1:37/03	PHASE FAILURE	325	•ū	1 325 IN 03	1:38/03	SPARE	345	NE WARNING GATE RAISE	L1-3	8 7 [:39/03] o	JT-3 N.O.	
CR024 306	IN 04 1:37/04	CONTROL POWER	326		326 IN 04	1:38/04	SPARE	346	SW WARNING GATE LOWER	L1-4	10 9 1:39/04 or	JT-4 N.O.	
NAV UGHTS RELAY CR048 307	IN 05 1:37/05	NAVIGATION LIGHT ON	327		327 IN 05	1:38/05	SPARE	347	SW WARNING GATE RAISE	L1-5	12 11 1:39/05 O	JT-5 N.O.	
	IN 06 1:37/06	NE GATE STARTER FORWARD/RAISE	328	•D	328 IN 06	1:38/06	SPARE	348	SE WARNING GATE LOWER	L1-6	14 13	JT-6 NLO,	
M-NEWGR 309	IN 07 1:37/07	NE GATE STARTER REVERSEACWER	329	•D	1 329 IN 07	1:38/07	SPARE	349	SE WARNING GATE RAISE	L1-7	16 15 1:39/07 O	JT-7 N.O.	
M-NWWGF ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	IN 08 1:37/08	NU GATE STARTER FORWARD/RAISE	330		1 330 IN 08	1:38/08 N	SPARE	350	NORTH SPAN LOCK DRIVE	L1-8	18 17 1:39/08 OI	Л-8 N.O.	
302 M-WWWGR 925 311 925	IN 09 1:37/09	NW GATE STARTER REVERSEACWER	331	•Ū	1 331 IN 09	1:38/09	SPARE	351	NORTH SPAN LOCK PULL	L1-9	20 19 20 1:39/09 OU	JT-9 N.O.	
M-SEWGF 312 1223	IN 10 1:37/10	SE GATE STARTER FORWARDIRAISE	332	•Ū	1 332 IN 10	1:38/10	SPARE	352	SOUTH SPAN LOCK DRIVE	L1-10	22 21 239/10 OL	JT-10 N.O.	
M-SEWGR	IN 11 1:37/11	SE GATE STARTER REVERSEACWER	333		1 333 IN 11	1:38/11	SPARE	353	SOUTH SPAN LOCK PULL	L1-11	24 23 24 23 1:39/11 ol	л-11 н.о.	
M-SWNGF M1- 314 1128	IN 12 E37/12	SW GATE STARTER FORWARD/RAISE	334		334 IN 12	1:38/12	SPARE	354	SPARE	L1-12	26 25 01 1:39/12 ol	JT-12 N.O.	
M-SYWGR 315	IN 13	SW GATE STARTER REVERSEACWER	335	·	1 335 IN 13	1:38/13	SPARE	355	SPARE	L1-13	28 27 0 0 1:39/13 OL	JT-13 N.O.	
	IN 14 1:37/14	SPARE	336	•	1 336 IN 14	1:38/14	SPARE	356	SPARE	L1-14	30 29 20 20 1:39/14 OL	JT-14 N.O.	
	IN 15 1:37/15	SPARE	337	_ _	1 337 IN 15	1:38/15	SPARE	357	SPARE	L1-15	32 31 [:39/15 OK	Л-15 N.O.	
	Ø	+	338			Ø	•	358		L1-15	»، ۵ 🖸		
		to 321 N1	339 to 341			I	to 341 N1	359		na	1 10 10 10	i.	
2 CONTROL DESK G GATE HOUSING D DRIVE PANEL			340					360		¥ to 401 L1			₩ to 401 N1
S SUBMARINE PANEL SS SURGE SUPPRESSOR PANEL A AUTOMATIC TRANSFER SWITCH (ATS)				PREPARED BY: WSP USA Inc. 2009 LENOX D	RIVE. LAWRENCEVILLE, N.J. 08348	<i>We</i> D)	CAPE MAY	COUNTY			PROJECT LOCATION: STONE HARBOR BOROLICH AND M CAPE MAY COUNTY, NEW DRAWING TITLE:	DDLE TOWNSHIP DATE: 4/9/2024 JERSEY SCALE:
EQ EMERGENCY GENERATOR F FIELD PB PANEL BOARD U UPS				Kevin Walsh	N.J. PE LICENSE NUMBER: 24GE05175000	DATE	AM Desgned by	JP Drawn by	BC Checked by	BRIDGE ON CHA	VER GREAT		GRAM 4 SHEET REFERENCE NO.: SHEET NO.: 153 of 202
_	MSFS Oto TAFT	NURSE Concernance Concernance <t< td=""><td>NUSC CONCENTRATION USAGE TRATER CONTROL POWER USAGE TRATER CONTROL POWER</td><td>NAS CONSTRUCTION SECTION FOR THE STATE SECTION FOR THE STATE</td><td>WHAT WATE <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td></t<>	NUSC CONCENTRATION USAGE TRATER CONTROL POWER USAGE TRATER CONTROL POWER	NAS CONSTRUCTION SECTION FOR THE STATE SECTION FOR THE STATE	WHAT WATE WATE <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								

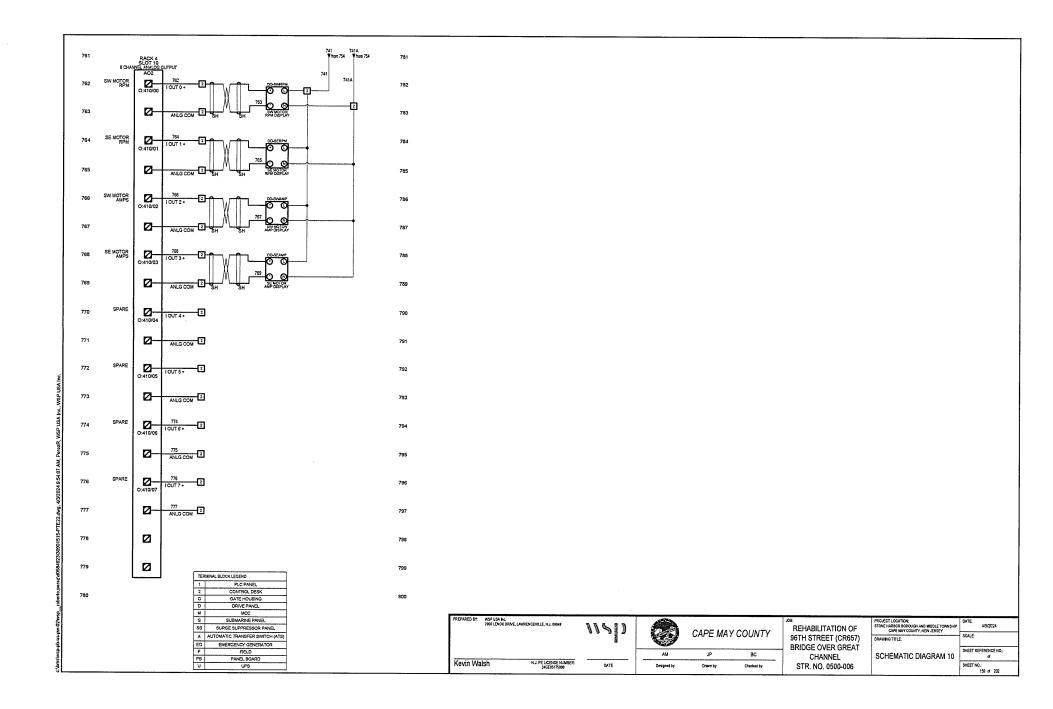


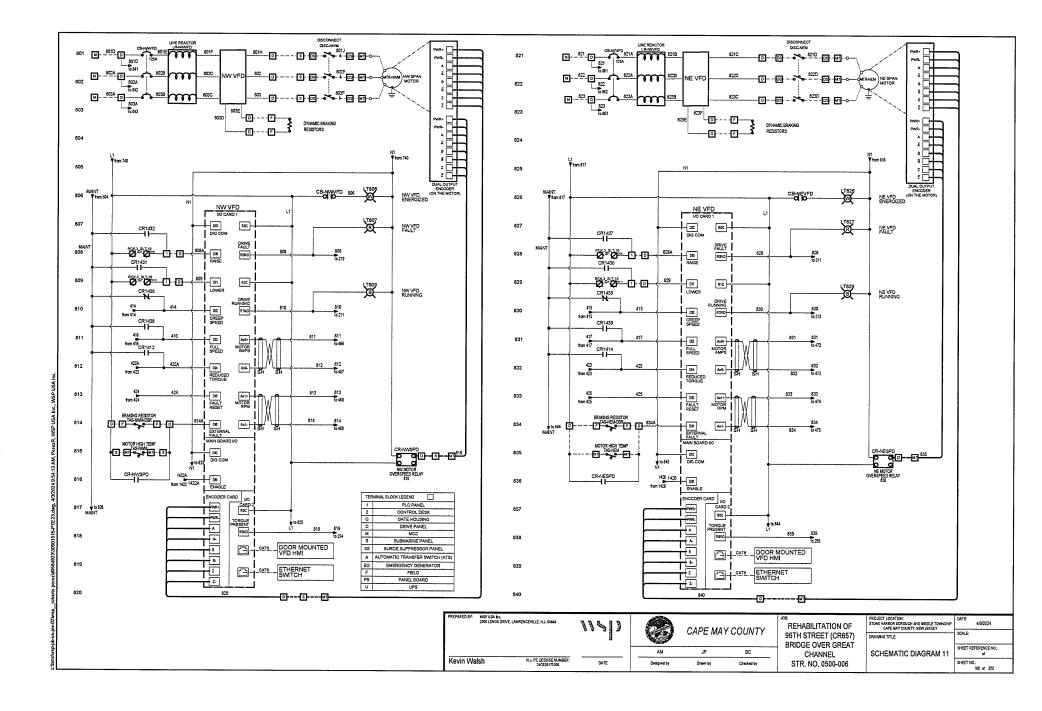


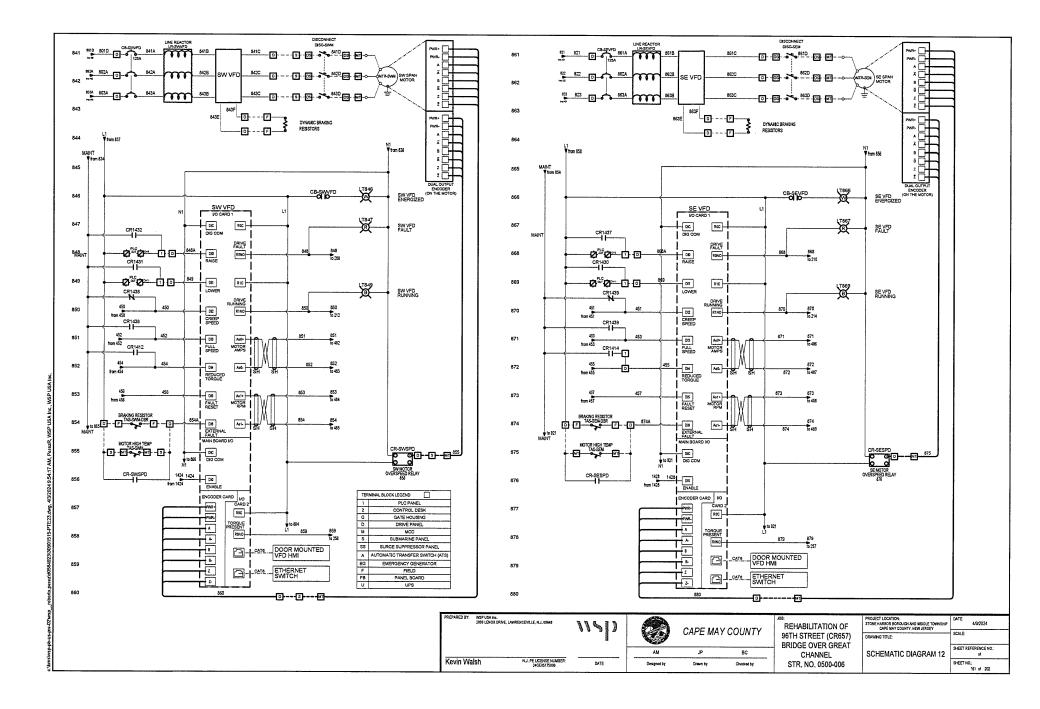
501	L1 ▼from 424		RACK 4	N1 ¶ tam 438	L1 521 Tran 520			RACK 4	N1 ▼fram 520	L1 541 ∳ftor	n 540		N1 V⊂1K A ¥tom 540
502	CB502 6.0 5.0 5.0	MODE SELECTION SS502 MAINT_ PROG OX502A	RACK 4 120VAC 16-PT INFUT DI9 IN 00	PROGRAM MODE		SE WARNING GATE SS522 STOP LOWER RAISE	12 522A IN 00	RACK 4 SLOT 2 WAC 16-PT INPUT DI10	SE WARNING GATE LOWER	542 L1	CB542 PE	1542 542A	
503				2 MAINTENANCE MODE	523		523 CR524 IN 01	I:42/00	SE WARNING GATE RAISE	543	• • • • •	510P 5024 543 024 IN 01 14	E-STOP
504			IN 02 1:41/02	TRAFFIC LIGHT GREEN	524	SPAN LOCKS BYPASS TG524	CH524 NO 1406,1408 NC 1406,1408	1:42/02	NORTH SPAN LOCKS PULL	544	FAULT PB: SW	N 02 1:45	NW VFD FAULT RESET
505		4 to 806 MAINT 0368 from 036	036B	TRAFFIC LIGHT YELLOW	525	NORTH SPAN LOCK SS525 STOP PULL DRNE XXXX	525 IN 03	1:42/03	NORTH SPAN LOCKS DRIVE	545	SW FAULT PB	e	SW VFD FAULT RESET
506		037A form 037 SS 507 AUTO RUM OFF_TEST	037A	TRAFFIC LIGHT RED	526	SOUTH SPAN LOCK SS527 STOP	526 IN 04	1:42/04	SOUTH SPAN LOCKS PULL	546	FAULT	IN 04 1:43	A NE VFD FAULT RESET
507	+		IN 05 1:41/05	GENERATOR IN AUTO	527		527 IN 05	1:42/05	SOUTH SPAN LOCKS DRIVE	547		547 547 IN 05 1:45 SELECTOR 1:45 548 170	SE VFD FAULT RESET
508		508	IN 05 1:41/06	GENERATOR	528	ALL WARNING GATES RAISE PB529	528 IN 06	1:42/06	SOUTH SPAN LOCKS PULL	548			NW VFD SELECT
509			0 IN 07 1:41/07	GENERATOR TEST	529	WEST LEAF SPAN SS530	529 IN 07	1:42/07	ALL WARNING GATES RAISE	549	م	■ 0X0 549 CR550 IN 07 It-45 CR550 NO 1424 ■ 0X2 127 550 NC 1422	WEST VFDS AUTO SELECT
510		12 12 12 12 12 12 12 12 12 12 12 12 12 1	IN 08 1:41/08	WARNING GATE BYPASS M	530	LOWER RAISE	530 IN 08	1:42/08	WEST SPAN LOWER	550	BR BYF	IN 08 1:45	SW VFD SELECT
511		LOWES 511 516.521,529 	IN 09 1:41/09	NW WARNING GATE LOWER	531	DUAL LEAF SPAN STOP PB532	531 IN 09	1:42/09	NI RAISE	551	••		N1 BRAKES BYPASS
512		LOVER AND ST 12 NE WARNING GATE STOP LOVER AND ST 13 134,102,102 134,102,102	IN 10 1:41/10	NW WARNING GATE RAISE	532	EAST LEAF SPAN SSS33 LOWER RAISE	532 IN 10 533	1:42/10	DUAL SPAN STOP	552	÷	SELECTOR 553 JTO 1:43 3:45 3:45	FULLY CLOSED BYPASS
513	-	334,1027,1029 514	IN 11 :41/11	NE WARNING GATE LOWER	533		533 IN 11 534	1:42/11	EAST SPAN LOWER	553	÷		A NE VFD SELECT
514		SW WARNING CATE SS515 STOP LOWER RAISE SCOOL	IN 12 1:41/12	NE WARNING GATE RAISE	534	START OPEN SECUENCE PBS35	12 S35	1:42/12	EAST SPAN RAISE	554	• • • •	0X0 554 CR555 IN 12 1:43 I ONO 1423 0XX 12 555 NO 1423	
515		1127,1129	IN 13 1:41/13	SW WARNING GATE LOWER SW WARNING GATE RAISE	535	START CLOSE SECUENCE PB536	IN 13 536	1:42/13	DUAL LEAF OPEN SECUENCE	555			
517		0	IN 14 t:41/14	GATE RAISE SPARE	536		IN 14	1:42/14	DUAL LEAF CLOSE SECUENCE	556		2 IN 14 1:43	24 /14
518			517 20 IN 15 1:41/15		538		IN 15	1:42/15		557	2	2] IN 15 I:43	/15
519					539					559			2
	to 521	TERMINAL BLOCK LEGEND	-	e to 521 N1	540 w10541				to 541	560 ¥to6	01		₩ to 501 N1
		O ORVE PAREL M MCC 3 SUBMARIE PAREL 38 SURGE SUPPRESSOR PAREL 40 ALTOMINE TRANSPERS MICH (ATS) EG EMERGENKY GENERATOR F FRED P5 PAREL BOARD U UPS			u	PREPARED BY WSP USA 64. 2000 LENOX DRIM Kevin Walsh	E, LAWRENCEVILLE, N.J. 0848 N.J. PE LICENSE M. MARER: N.J. PE LICENSE M. MARER: N.J. PE LICENSE M. MARER:	DATE	Mi Image: Image and the second sec	Li CAPE MAY COUN JP BC Drawn by Checked	VTY BRIDGE OVE CHANI	T (CR657) DRAWING TITLE: ER GREAT NEL SCHEMATIC DIAG	DLE TOWNSHIP RRSEY SCALE SHEFT REFERENCE ND

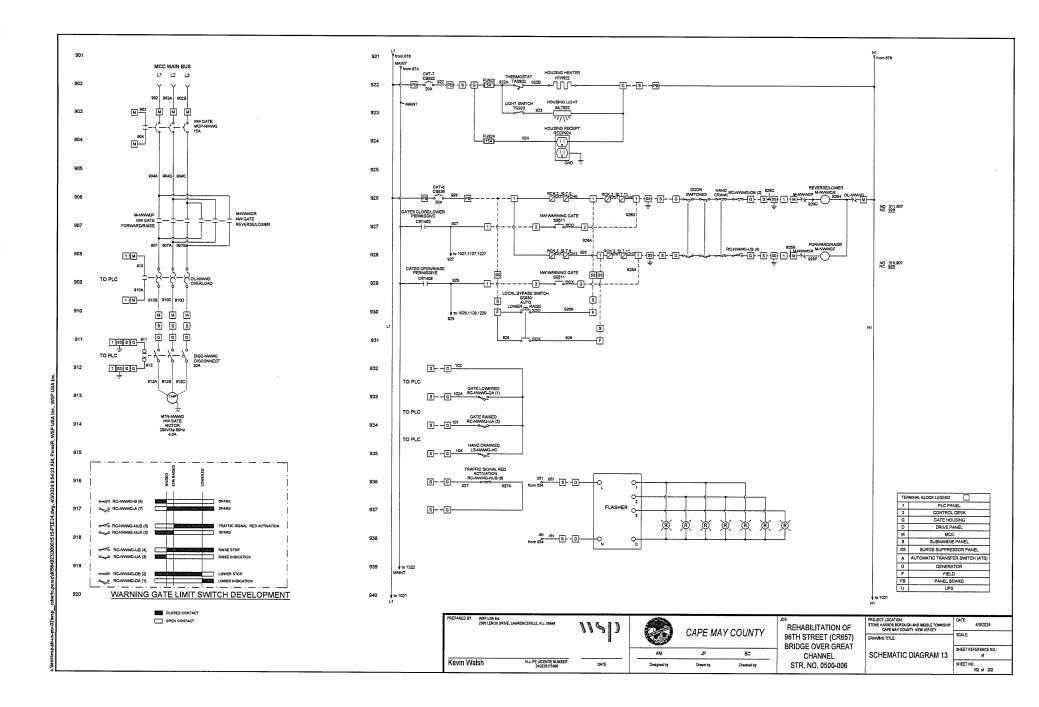
601	L1 ▼from 543			N1. ▼from 560	Ľ		N*	11 1 tan 620 641	u		N1
L1	1	120	RACK 4 SLOT 4 WAC 16-PT INPUT DI12	• from 560	6211 tom 520	RACK 4 SLOT 5 120VAC 16-PT OUTPUT		fan 620 641	L1 V from 640 L1 2 120VA	RACK 4 SLOT 6 C 15-PT OUTPUT	W from 640
602	CB602 602 2	602A IN 00	1:44/00	2 SPARE	622 CB622A		Ē	642	CB642		
603	2	2 603 IN 01	1:44/01	SPARE	623 DESK TRAFFIC L G	IGHT 00 623 REEN 0:45/00 OUT 00 2	LT623	DESK TRAFFIC 643 LIGHT GREEN 643	NORTH SPAN LOCK PULLED	00 643 01 0UT 00 2	NORTH SPAN LOCK PULLED
604	•E	504 IN 02	1:44/02	SPARE	624 DESK TRAFFIC I	LIGHT 01 624 LIGW 0:45/01 OUT 01 2	LEST A	DESK TRAFFIC 644	NORTH SPAN LOCK DRIVEN	01 644 0:46/01 OUT 01 2	NORTH SPAN LOCK DRIVEN
605		2 605 IN 03	1:44/03	SPARE	625 DESK TRAFFIC L	LIGHT RED 02 625 2 0:45/02 OUT 02 2	17625	DESK TRAFFIC 645 LIGHT RED 645	SOUTH SPAN LOCK PULLED	02 645 0:46/02 OUT 02 2	SOUTH SPAN LOCK PULLED
606	2	2 606 IN 04	1:44/04	SPARE	626 CONTROL PC	OVER 03 626 C:45/03 OUT 03	LT626	CONTROL POWER 646	SOUTH SPAN LOOK DRIVEN	03 645 0:46/03 OUT 03 2	SOUTH SPAN LOCK DRIVEN
607	2	2 607 IN 05	1:44/05	SPARE	627 NAVIGATION LK	GHTS 0:45/04 OUT 04 2	UT627	NAVIGATION LIGHTS 647	WEST LEAF FULLY CLOSED	04 647 0:46/04 OUT 04 2	WEGT LEAF FULLY CLOSED
608	2	2 608 IN 06	1:44/06	SPARE	628 FLOOD LK	GHTS 05 628 ON 0:45/05 CUT 05 2	LT628	FLCOD LIGHTS 648 ON 648	WEST LEAF NEARLY CLOSED	0:46/05 0UT 05	WEST LEAF NEARLY CLOSED
609	2	2 <u>509</u> IN 07	1:44/07	SPARE	629 FAULT L	DRIVE 06 629 JGHT 0:45/06 CUT 08 2	LT623	NORTHWEST DRIVE 649 FAULT 649	WEST LEAF NEARLY OPEN	0;46/06 0UT 06 2	WEST LEAF NEARLY OPEN
610	2	2 510 IN 08	1:44/08	SPARE	630 SW D FAULT L	OUT 07 630 OUT 07 0:45/07 OUT 07	LT639	SOUTHWEST DRIVE 650 FAULT 650	WEST LEAF FULLY OPEN	07 650 0:46/07 0UT 07 2	WEST LEAF FULLY OPEN
611	2	611 IN 09	1:44/09	M SPARE	631 NW WAR GATE DOWN L	NING JGHT 0:45/08 OUT 8		MW WARNING 651 GATE DOWN 651	EAST LEAF FULLY CLOSED	0:46/08 OUT 8	AST LEAF FULLY CLOSED
612	2	612 IN 10	1:44/10	SPARE	632 NW WAR GATE UP L	NING IGHT 0:45/09 CUT 9		, NWWARNING 652 GATE UP 652	EAST LEAF NEARLY CLOSED	0:46/09 OUT 9 2	EAST LEAF NEARLY CLOSED
613	2	2 613 IN 11	1:44/11	SPARE	633 SW WARN GATE DOWN L	NING JGHT 0:45/10 OUT 10	LT633	SW WARNING 653 GATE DOWN 653	EAST LEAF NEARLY OPEN	0:46/10 OUT 10 2	EAST LEAF NEARLY OPEN
614	2	2 614 IN 12	1:44/12	SPARE	634 SW WARN GATE UP L	NING JGHT 0:45/11 OUT 11	L1634	SW WARNING 654 GATE UP 654	EAST LEAF FULLY OPEN	0:46/11 CUT 11 2	EAST LEAF FULLY OPEN
615	2	2 615 IN 13	1:44/13	SPARE	635 GATE DOWN L	NING JGHT 0:45/12 OUT 12 Z	L T635	NE WARNING 655 GATE DOWN 655	NE DRIVE FAULT LIGHT	14 655 0:46/12 OUT 12 Z	R FAULT
616	2	2 616 IN 14	1:44/14	SPARE	636 NE WAR GATE UP L	NING IGHT 0:45/13 OUT 13 Z	LT636	NE WARNING 656 GATE UP 656	SE DRIVE FAULT LIGHT	15 656 0:46/13 OUT 13 Z	SOUTHEAST DRIVE
617	2	2 617 IN 15	1:44/15	SPARE	637 GATE DOWN L	NING IGHT 0:45/14 OUT 14	LT637	SE WARNING 657 GATE DOWN 657	SPARE	0:46/14 OUT 14 2	2
618			Ø		638 SE WARI GATE UP L	NING IGHT 0:45/15 OUT 15 2	Tess	SE WARNING 658 GATE UP 658	SPARE	0;46/15 OUT 15	2
619	TERMINAL BLOCK	EGEND			639			659			
620	to 621 C C	ONTROL DESK ATE HOUSING BRIVE PANEL MCC		to 621 M1	640 ta641 L1		N1	lo 641 660	to 701 L1	-	u 10 701 N1
	S SURGE : A AUTOMATIC	MARINE PANEL SUPPRESSOR PANEL TRANSFER SWITCH (ATS)				PREPARED BY: WSP USA Inc. 2010 LENCX DRIVE, LAWRENCEVILLE, N.J. 01048	116[)	CAPE N	IAY COUNTY	REHABILITATION OF	IOJECT LOCATION: ONE MASOR BOROUCH AND MIDDLE TOXINSHIP CAPE MAY COUNTY, NEW JERSEY SANNO TITLE SCALE
	F	ENCY GENERATOR FIELD ANEL BOARD UPS				Kevin Walsh NJ. PELICENSE NJM NGERSTRAM	BER: DATE	AM JP Designed by Drawn by	BC Checked by	BRIDGE OVER GREAT	SCHEMATIC DIAGRAM 8

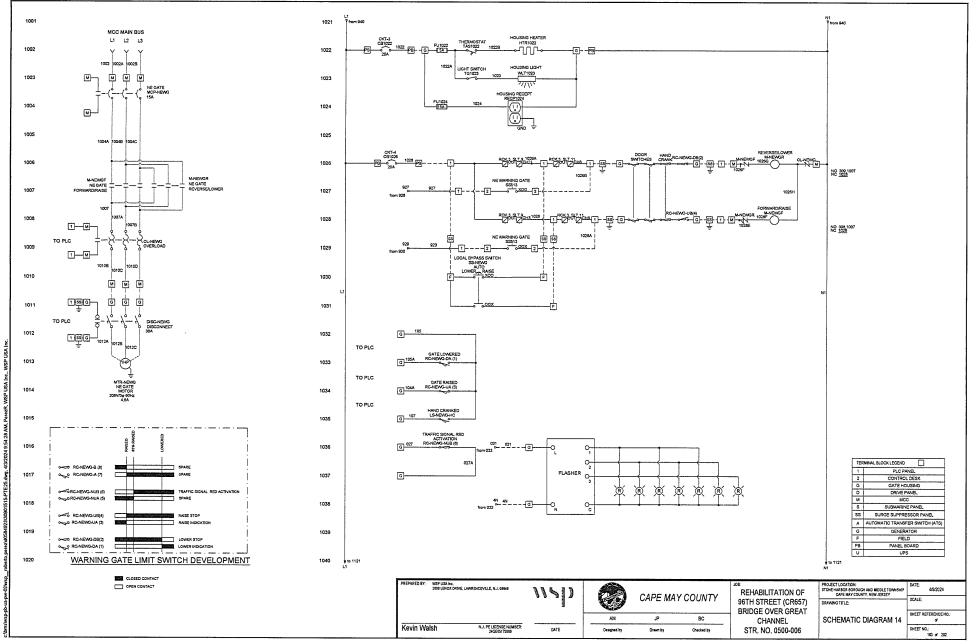


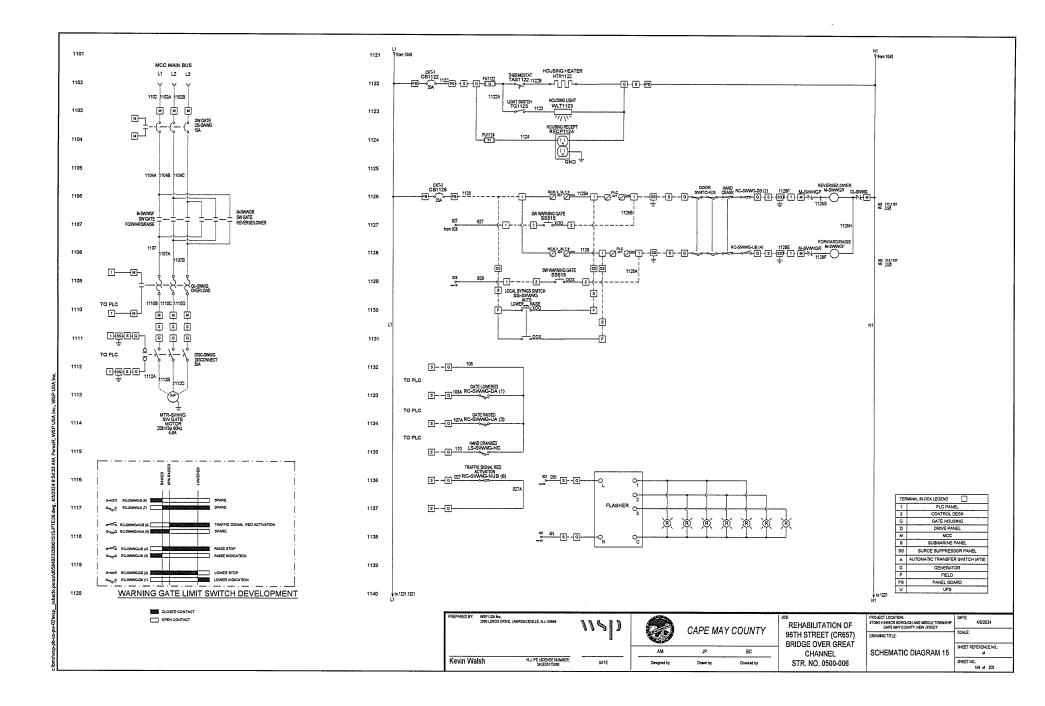


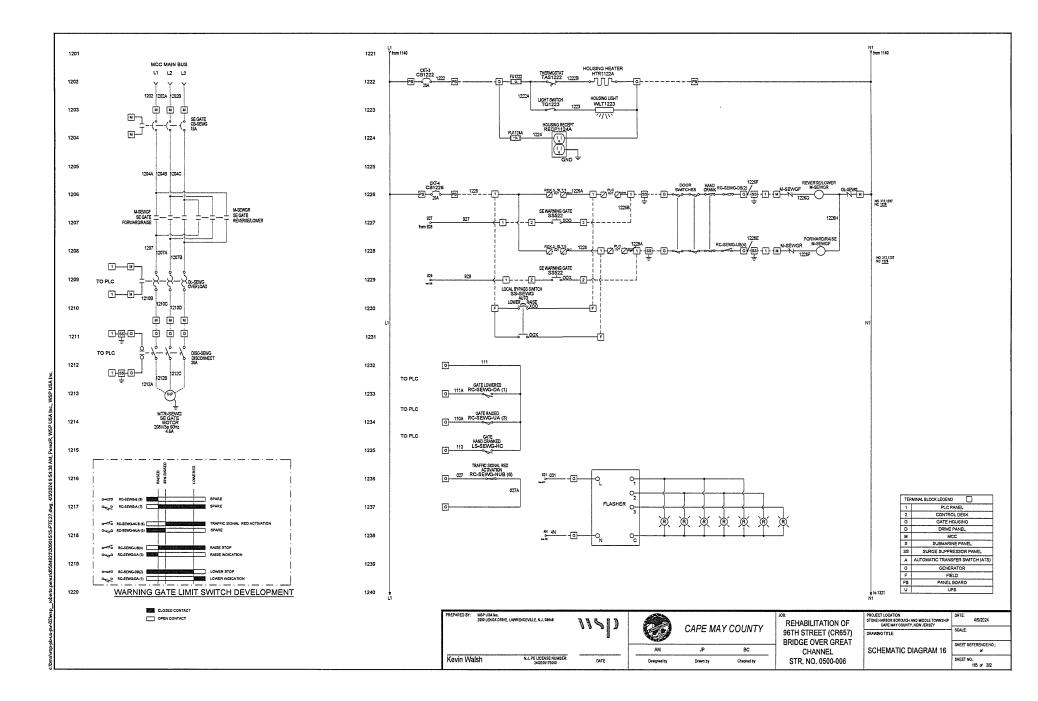


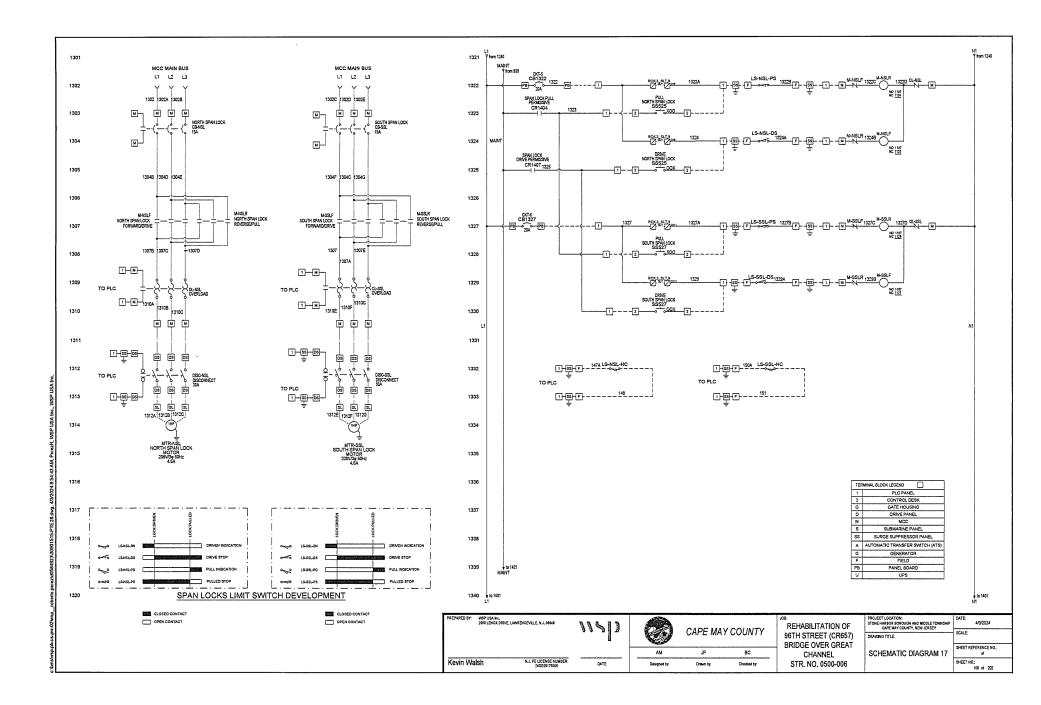


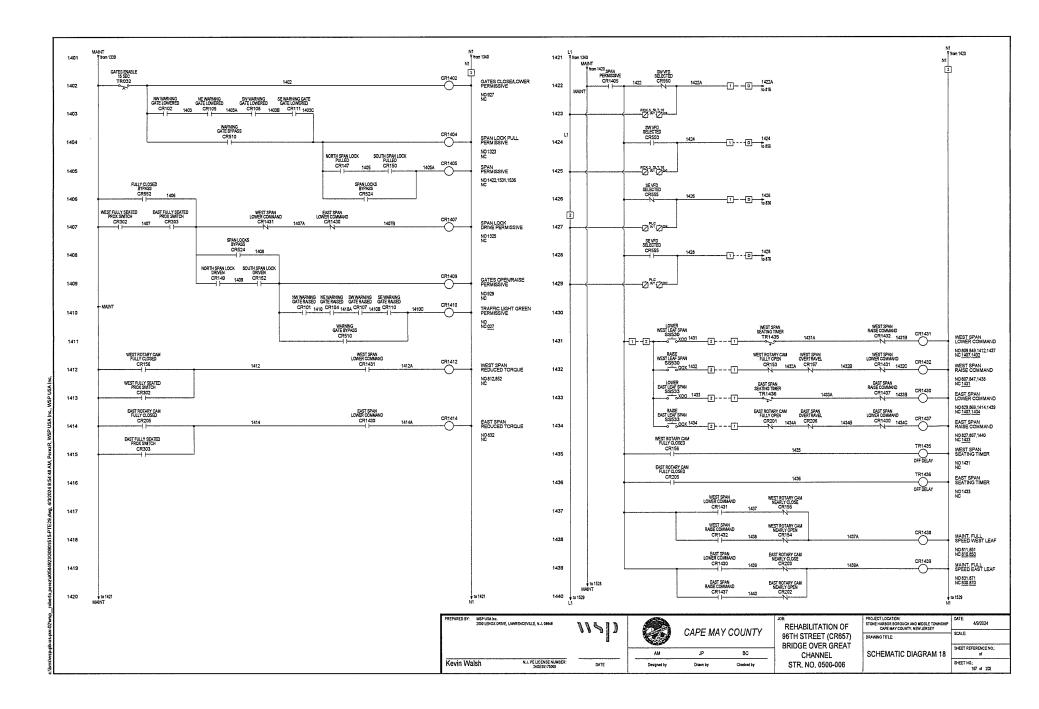


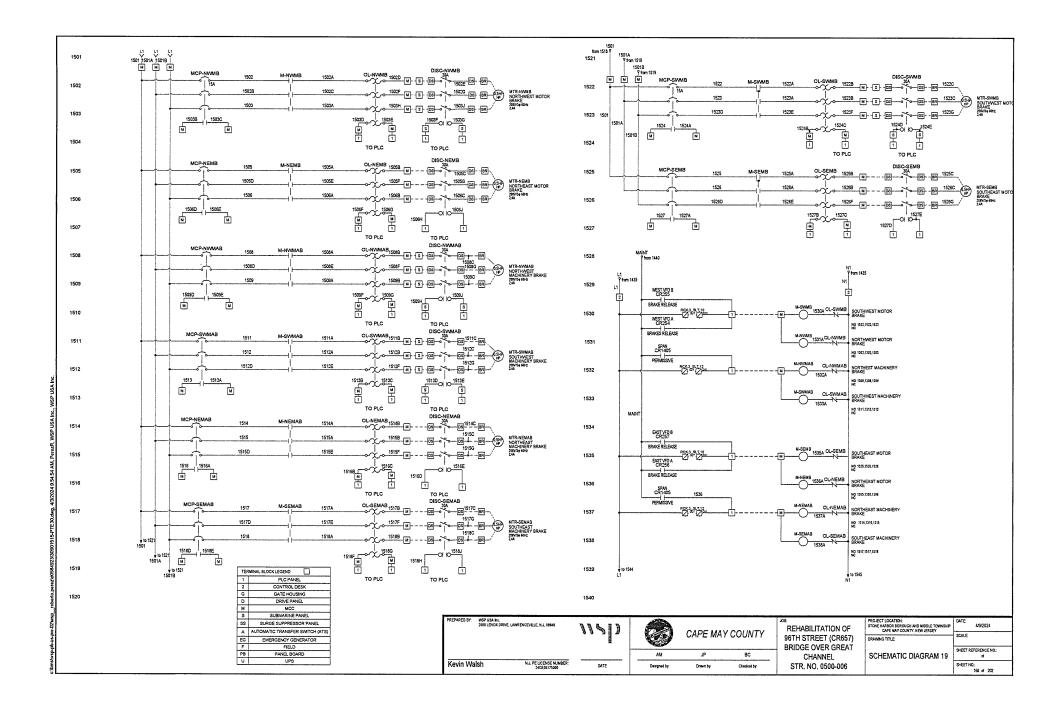


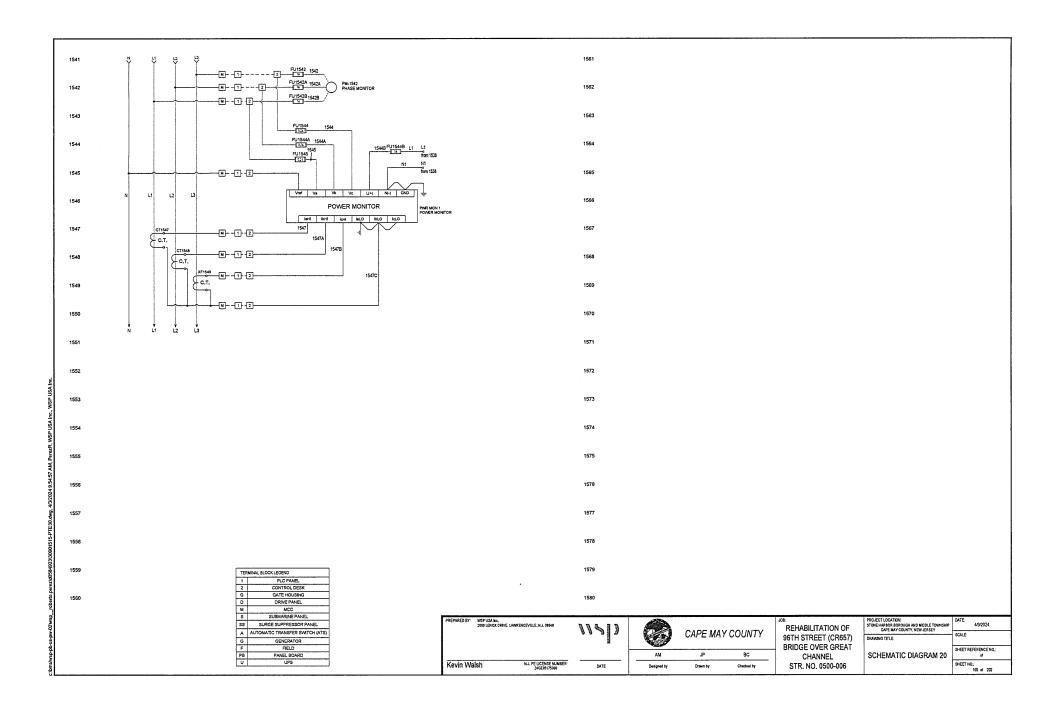












MODULE TAG	ADDOCCC			
	10000000	INPUT/OUTPUT	EQUIPMENT	FUNCTION
Al1	1:313/00	IN-0	WEST SPAN	POSITION RESOLVER
A11	1:313/01	IN-1	EAST SPAN	POSITION RESOLVER
Alt	1:313/02	IN-2	NW MOTOR	AMP
Al1	1:313/03	IN-3	NWMOTOR	RPM
Al1	1:313/04	IN-4	NE MOTOR	AMP
AIT	1:313/05	IN-5	NE MOTOR	RPM
Al1	1313/05	IN-0	SPARE	
AJ1	1:313/07	IN-7	SPARE	

		RACK 4 SLOT 10 /	WALOG OUTPUT MODULE	2
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
A02	0:410/00	I OUT 0 +	SWMOTOR	RPM
A02	0:410/01	1 OUT 1 +	SEMOTOR	RPM
AO2	O:410/02	10UT 2+	SWMOTOR	AMPS
A02	O:410/03	10UT 3+	SE MOTOR	AMPS
A02	O:410/04	1 OUT 4 +	SPARE	
AO2	Q:410/05	IOUT 5+	SPARE	
AQ2	Q:410/06	I OUT 6+	SPARE	
AO2	O:410/07	1 OUT 7 +	SPARE	

			<u>l/0 4-20</u>	MA ANALOGS							
RACK 3 SLOT 14 ANALOG INPUT MODULE 2											
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION							
A12	1:314/00	IN-O	SWMOTOR	AMP							
AI2	1:314/01	IN-1	SWMOTOR	RPM							
AI2	1:314/02	IN-2	SEMOTOR	AMP							
AI2	1:314/03	IN-3	SE MOTOR	RPM							
AJ2	1:314/04	IN-4	SPARE								
AI2	1:314/05	IN-5	SPARE								
AI2	1:314/06	IN-6	SPARE								
AI2	1:314/07	(N+7	SPARE								

RACK 4 SLOT 9 ANALOG OUTPUT MODULE 1									
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION					
A01	O:48/00	IOUT 0+	WEST SPAN	POSITION					
A01	O:49/01	I OUT 1 +	EAST SPAN	POSITION					
A01	0:49/02	1 OUT 2 +	NW MOTOR	RPM					
A01	0:49/03	LOUT 3 +	NE MOTOR	RPM					
A01	O:49/04	1 OUT 4 +	NWMOTOR	AMPS					
AQ1	0:49/05	1 OUT 5 +	NE MOTOR	AMPS					
AQ1	0:49/08	IOUT 6+	SPARE						
AO1	O:49/07	10077+	SPARE						

I/O 120VAC DIGITAL INPUTS

MODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
		-		
DI1	1:31/00	IN 00	NW WARNING	GATE RAISED
DI1	E31/01	IN 01	NW WARNING	GATE LOWERED
DI1	1:31/02	IN 02	NW WARNING GATE	DOOR/HAND CRANK
DI1	1:31/03	IN 03	NE WARNING	GATE RAISED
Dit	E31/04	IN 04	NE WARNING	GATE LOWERED
Dit	1:31/05	IN 05	NE WARNING GATE	DOOR/HAND CRANK
Dit	1:31/06	IN 06	SWWARNING	GATE RAISED
Dit	1:31/07	IN 07	SW WARNING	GATE LOWERED
DIt	1:31/08	IN 08	SW WARNING GATE	DOOR/HAND CRANK
DI1	1:31/09	IN 09	SE WARNING GATE	GATE RAISED
DI1	1.31/10	IN 10	SE WARNING GATE	GATE LOWERED
Di1	1:31/11	IN 11	SE WARNING GATE	DOOR/HAND CRANK
DI1	1:31/12	IN 12	NW MOTOR BRAKE	HAND RELEASED
Dit	£31/13	IN 13	NW MOTOR BRAKE	RELEASED
DI1	L31/14	IN 14	NW MOTOR BRAKE	SET
DIT	1:31/15	IN 15	SPARE	

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DI4	1:34/00	IN 00	EAST ROTARY CAM	FULLY OPEN
D14	1:34/01	IN 01	EAST ROTARY CAM	NEARLY OPEN
DI4	1:34/02	IN 02	EAST ROTARY CAM	NEARLY CLOSE
014	1:34/03	IN 03	EAST ROTARY CAM	FULLY CLOSED
D14	134/04	IN 04	EAST LEVER LIMIT	SWITCH OVER TRAVE
DI4	1:34/05	IN 05	NW VFD	FAULT
DI4	1:34/06	IN 08	SW VFD	FAULT
DI4	1:34/07	IN 07	NE VFD	FAULT
D14	1:34/08	IN 08	SE VFD	FAULT
D14	1:34/09	IN 09	NW VFD	RUNNING
D14	1:34/10	IN 10	SW VFD	RUNNING
D14	1:34/11	IN 11	NE VFD	RUNNING
D14	1:34/12	IN 12	SE VFD	RUNNING
DI4	1:34/13	IN 13	ATS NORMAL POWER	
D14	1:34/14	IN 14	ATS GENERATOR POWER	
DI4	1:34/15	IN 15	GENERATOR	MALFUNCTION

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DI7	1:37/00	IN 00	WEST FULLY SEATED	LIMIT SWITCH
DI7	1:37/01	IN 01	EAST FULLY SEATED	LIMIT SWITCH
Di7	1:37/02	IN 02	NAVIGATION	LIGHT ON
DI7	1:37/03	IN 03	PHASE FAILURE	
DI7	1:37/04	IN 04	CONTROL POWER	ON
D(7	1:37/05	IN 05	FLOOD UGHTS	ON
DI7	1:37/06	IN 06	NE GATE STARTER	RAISE
DI7	1:37/07	IN 07	NE GATE STARTER	LOWER
DI7	1:37/08	IN C8	NW GATE STARTER	RAISE
DI7	1:37/09	IN 09	NW GATE STARTER	LOWER
DI7	1:37/10	IN 10	SE GATE STARTER	RAISE
D17	1:37/11	IN 11	SE GATE STARTER	LOWER
D17	1:37/12	IN 12	SW GATE STARTER	RAISE
DI7	1:37/13	IN 13	SW GATE STARTER	LOWER
DI7	1:37/14	IN 14	SPARE	
DI7	1:37/15	IN 15	SPARE	

MODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
Diž	1:32/00	IN 00	NW MACHINERY BRAKE	HAND RELEASED
Di2	1:32/01	IN 01	NW MACHINERY BRAKE	RELEASED
Ci2	1:32/01	IN 02	NW MACHINERY BRAKE	SET
DI2	1:32/03	IN 03	SW MACHINERY BRAKE	HAND RELEASED
DI2	1:32/04	IN 04	SW MACHINERY BRAKE	RELEASED
DI2	1:32/05	IN 05	SW MACHINERY BRAKE	SET
DI2	1:32/06	IN 06	NE MACHINERY BRAKE	HAND RELEASED
Di2	1:32/07	IN 07	NE MACHINERY BRAKE	RELEASED
Di2	1:32/08	IN 08	NE MACHINERY BRAKE	SET
D12	1:32/09	IN 09	SE MACHINERY BRAKE	HAND RELEASED
DI2	1:32/10	IN 10	SE MACHINERY BRAKE	RELEASED
DI2	1:32/11	IN 11	SE MACHINERY BRAKE	SET
DI2	1:32/12	IN 12	SW MOTOR BRAKE	HAND RELEASED
	1:32/13	IN 13	SW MOTOR BRAKE	RELEASED
DI2	1:32/14	IN 14	SW MOTOR BRAKE	SET
DI2	1:32/15	IN 15	NE MOTOR BRAKE	HAND RELEASED

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DIS	1:35/00	IN 00	NW MOTOR	BRAKE DISCONNECT
DIS	1:35/01	IN 01	SWMOTOR	BRAKE DISCONNECT
DIS	1:35/02	IN 02	NE MOTOR	BRAKE DISCONNECT
DIS	1:35/03	IN 03	SEMOTOR	BRAKE DISCONNECT
D15	1:35/04	IN 04	NW MACHINERY	BRAKE DISCONNECT
D#5	1:35/05	IN 05	SWMACHINERY	BRAKE DISCONNECT
DI5	1:35/08	IN 08	NE MACHINERY	BRAKE DISCONNECT
DIS	1:35/07	IN 07	SE MACHINERY	BRAKE DISCONNECT
DIS	1.35/08	IN C8	NWMOTOR	BRAKE OVERLOAD
C15	1:35/09	IN 09	SWMOTOR	BRAKE OVERLOAD
DIS	1:35/10	IN 10	NE MOTOR	BRAKE OVERLOAD
DIS	1:35/11	IN 11	SE MOTOR	BRAKE OVERLOAD
DIS	1:35/12	IN 12	NW MACHINERY	BRAKE OVERLOAD
DIS	1:35/13	IN 13	SW MACHINERY	BRAKE OVERLOAD
DIS	1.35/14	IN 14	NE MACHINERY	BRAKE OVERLOAD
DIS	135/15	IN 15	SE MACHINERY	BRAKE OVERLOAD

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DI3	1:33/00	IN 00	NE MOTOR BRAKE	HAND RELEASED
DI3	1:33/01	IN 01	NE MOTOR BRAKE	RELEASED
DI3	1:33/02	IN 02	SE MOTOR BRAKE	HAND RELEASED
DI3	1:33/03	IN 03	SE MOTOR BRAKE	RELEASED
DI3	1:33/04	IN 04	SE MOTOR BRAKE	SET .
DI3	1:33/05	IN 05	NORTH SPAN LOCK	PULLED
DI3	1:33/06	IN 08	NORTH SPAN LOCK	HAND CRANK
DI3	1:33/07	IN 07	NORTH SPAN LOCK	DRIVEN
DI3	1:33/08	IN 08	SOUTH SPAN LOCK	PULLED
DI3	1:33/09	IN 09	SOUTH SPAN LOCK	HAND CRANK
DI3	1:33/10	IN 10	SOUTH SPAN LOCK	DRIVEN
DI3	1:33/11	IN 11	WEST ROTARY CAM	FULLY OPEN
DI3	1:33/12	IN 12	WEST ROTARY CAM	NEARLY OPEN
DI3	1:33/13	IN 13	WEST ROTARY CAM	NEARLY CLOSE
DI3	1:33/14	IN 14	WEST ROTARY CAM	FULLY CLOSED
CX3	1:33/15	IN 15	WEST LEVER LIMIT	SWITCH OVER TRAVEL

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DIG	1:36/00	IN 00	NW WARNING GATE	OVERLOAD
DHB	1:36/01	IN 01	SW WARNING GATE	OVERLOAD
DIS	1:36/02	IN 02	NE WARNING GATE	OVERLOAD
DIS	1:36/03	IN 03	SE WARNING GATE	OVERLOAD
Dis	1:36/04	IN 04	NORTH SPAN LOCK	OVERLOAD
D/6	1:36/05	IN 05	SOUTH SPAN LOCK	OVERLOAD
Die	1:36/06	IN 08	NORTH SPAN LOCK	DISCONNECT
C16	1:36/07	IN C7	SOUTH SPAN LOCK	DISCONNECT
D(6	136/08	IN C8	NW MOTOR	DISCONNECT
DIG	136/09	IN 09	SWMOTOR	DISCONNECT
Dis	1:36/10	IN 10	NE MOTOR	DISCONNECT
DIS	136/11	IN 11	SEMOTOR	DISCONNECT
DIG	1:36/12	IN 12	NW VFD	TORQUE PROVING
DI6	1:36/13	IN 13	SW VFD	TORQUE PROVING
Di6	1:36/14	IN 14	NE VFD	TORQUE PROVING
DIS	1:36/15	IN 15	SE VFD	TORQUE PROVING

PREPARED BY:	WSP USA IN: 2000 LENCX DRIVE, LAWRENCEVILLE, N.J. 08648	112[]	0	CAPE MA	Y COUNTY	BEHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/5/2024 SCALE:
			AM	JP	BC	CHANNEL	IO LIST 1 OF 3	SHEET REFERENCE NO.: of
Kevin W	alsh N.J. PE LICENSE NUMBER: 24GE05175000	DATE	Designed by	Drawn by	Checked by	STR. NO, 0500-006		SHEET NO.: 170 of 202

I/O 120VAC	DIGITAL	INPUTS	(CONT.)

MODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
Dia	1:11/00	IN 00	SPARE	
DI8	1:11/01	IN 01	SPARE	
Cit	1:11/02	IN 02	SPARE	
Dis	1:11/03	IN 03	SPARE	
DIS	1:11/04	IN 04	SPARE	
DIS	1:11/05	IN 05	SPARE	
DIS	1:11/06	IN 06	SPARE	
Dis	1:11/07	IN 07	SPARE	
DIS	1:11/08	IN 08	SPARE	
DIS	1:11/09	IN 09	SPARE	
DIS	1:11/10	IN 10	SPARE	
Dis	1:11/11	IN 11	SPARE	
Cita	1:11/12	IN 12	SPARE	
CH8	1:11/13	IN 13	SPARE	
DI8	1:11/14	IN 14	SPARE	
DIS	1:11/15	IN 15	SPARE	

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DI9	1:41/00	IN 00	PROGRAM MODE	
D19	1:41/01	IN 01	MAINTENANCE MODE	
DI9	1:41/02	IN 02	TRAFFIC LIGHT	GREEN
Dia	1:41/03	IN 03	TRAFFIC LIGHT	YELLOW
D19	1:41/04	IN 04	TRAFFIC LIGHT	RED
D19	1:41/05	IN 05	GENERATOR	IN AUTO
DIS	1:41/08	IN D8	GENERATOR	RUN
DI9	L:41/07	IN 07	GENERATOR	TEST
D19	1;41/08	IN 08	WARNING	GATE BYPASS
610	1:41/09	IN 09	NW WARNING	GATE LOWER
610	1:41/10	IN 10	NW WARNING	GATE RAISE
019	1:41/11	IN 11	NE WARNING	GATE LOWER
019	1:41/12	IN 12	NE WARNING	GATE RAISE
C(9	1:41/13	IN 13	SWWARNING	GATE LOWER
DI9	1:41/14	IN 14	SWWARNING	GATE RAISE
DIS	1:41/15	IN 15	SPARE	

	INPUT/OUTPUT	EQUIPMENT	FUNCTION
:42/00	IN 00	SE WARNING	GATE LOWER
1:42/01	IN 01	SE WARNING	GATE RAISE
1:42/02	IN 02	NORTH SPAN LOCKS	PULL
1:42/03	IN 03	NORTH SPAN LOCKS	DRIVE
1:42/04	IN 04	SOUTH SPAN LOCKS	PULL
1:42/05	IN 05	SOUTH SPAN LOCKS	DRIVÉ
1:42/06	IN 06	SOUTH SPAN LOCKS	PULL
1:42/07	IN 07	ALL WARNING	GATES RAISE
1:42/08	IN 08	WEST SPAN	LOWER
:42/09	IN 09	WEST SPAN	RAISE
1:42/10	IN 10	DUAL SPAN	STOP
1:42/11	IN 11	EAST SPAN	LOWER
1:42/12	IN 12	EAST SPAN	RAISE
1:42/13	IN 13	EAST SPAN	STOP
t42/14	IN 14	START OPEN	SECUENCE
	42/01 42/02 42/03 42/04 42/05 42/06 42/08 42/07 42/08 42/09 42/10 42/11 42/12 42/13	142011 1401 14202 1402 14202 1402 14202 1402 14205 1403 14205 1405 14205 1405 14205 1406 14205 1406 14207 1407 14208 1406 14209 1409 14211 1411 14212 1412 14213 1414	HOT SEYMARING HOT SEYMARING HOT SEYMARING HOT NOT HOT NOT HADD NOT HADD NOT HADD NOT HADD NOT HADDS NOT HADDS NOT HADDS NOT HADDS NOT HADNO NOT HADDS NOT HADDS NOT HADNO NOT HAD

MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
	1:43/00	IN 00	LAMP TEST	
	1:43/01	IN 01	E-STOP	
DI11	1:43/02	IN 02	NW VFD	FAULT RESET
DI11	1:43/03	IN 03	SW VFD	FAULT RESET
DI11	1:43/04	IN 04	NE VFD	FAULT RESET
DI11	1:43/05	IN 05	SE VFD	FAULT RESET
DI11	1:43/08	IN 06	NW VFD	SELECT
Dit1	1:43/07	IN 07	WEST VFDS	AUTO SELECT
DI11	1:43/08	IN 06	SW VFD	SELECT
D(11	1:43/09	IN 09	BRAKES BYPASS	
DI11	1:43/10	IN 10	FULLY CLOSED	BYPASS
Di11	1:43/11	IN 11	NE VFD	SELECT
DI11	1:43/12	IN 12	EAST VFDS	AUTO SELECT
DI11	1:43/13	IN 13	SE VFD	SELECT
DI11	1:43/14	IN 14	SPARE	

		RACK 4 SLOT 4, 120V	AC DIGITAL INPUT MODUI	LE 12
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DI12	1:44/00	IN 00	SPARE	
DI12	1:44/01	IN 01	SPARE	
DI12	1:44/02	IN 02	SPARE	
Di12	1:44/03	IN 03	SPARE	
DI12	1:44/04	IN 04	SPARE	
DI12	1:44/05	IN 05	SPARE	
DI12	1:44/08	IN 08	SPARE	
Di12	1:44/07	IN 07	SPARE	
DI12	1:44/08	IN 08	SPARE	
DI12	1:44/09	IN 09	SPARE	
Di12	1:44/10	IN 10	SPARE	
DI12	1:44/11	IN 11	SPARE	
DI12	1:44/12	IN 12	SPARE	
Di12	1:44/13	IN 13	SPARE	
DI12	1:44/14	IN 14	SPARE	
DI12	1:44/15	IN 15	SPARE	

I/O RELAY OUTPUT MODULES

MODULE TAG	4009555	INPUT/OUTPUT	EQUIPMENT	FUNCTION
	1:39/00	OUT-0 N.O	NWWARNING	GATE LOWER
D01	1:39/01	OUT-1 N.O.	NW WARNING	GATE RAISE
DO1	1:39/02	OUT-2 N.O.	NE WARNING	GATE LOWER
D01	1:38/03	OUT-3 N.O.	NE WARNING	GATE RAISE
D01	1:39/04	OUT-4 N.O.	SW WARNING	GATE LOWER
DO1	1:39/05	OUT-5 N.O.	SW WARNING	GATE RAISE
DO1	1:39/06	OUT-8 N.O.	SE WARNING	GATE LOWER
DO1	1:39/07	OUT-7 N.O.	SE WARNING	GATE RAISE
DO1	1:39/08	OUT-8 N.O.	NORTH SPAN	LOCK DRIVE
D01	1:39/09	OUT-9 N.O.	NORTH SPAN	LOCK PULL
DO1	1:38/10	OUT-10 N.O.	SOUTH SPAN	LOCK DRIVE
DO1	1:39/11	OUT-11 N.O.	SOUTH SPAN	LOCK PULL
D01	1:39/12	OUT-12 N.O.	SPARE	
DO1	1:39/13	OUT-13 N.O.	SPARE	
D01	1:39/14	OUT-14 N.O.	SPARE	
DO1	1:39/15	OUT-15 N.O.	SPARE	

		RACK 3 SLOT 10	RELAY OUTPUT MODULE 2	
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DO2	0:310/00	OUT-0 N.O.	WEST MOTORS	BRAKE RELEASE
D02	0:310/01	OUT-1 N.O.	EAST MOTORS	BRAKE RELEASE
D02	0:310/02	QUT-2 N.O.	HORN	
DO2	0:310/03	OUT-3 N.O.	HEATING	CONTACTOR
D02	0:310/04	OUT-4 N.O.	NWWARNING	GATE GONG
D02	0:310/05	OUT-5 N.O.	NE WARNING	GATE GONG
002	O:310/06	OUT-8 N.O.	NWDRIVE	ENABLE
002	O:310/07	OUT-7 N.O.	NE DRIVE	ENABLE
D02	0:310/08	OUT-8 N.O.	NW DRIVE	RUN RAISE
D02	O:310/09	OUT-9 N.O.	NE DRIVE	RUN RAISE
DO2	0:310/10	CUT-10 N.O.	NWORIVE	RUNLOWER
D02	0:310/11	OUT-11 N.O.	NE ORIVE	RUNLOWER
D02	0:310/12	CUT-12 N.O.	NWORIVE	CREEP SPEED
DO2	0:310/13	OUT-13 N.O.	NEORIVE	CREEP SPEED
D02	0:310/14	OUT-14 N.O.	NW DRIVE	FULL SPEED
D02	0:310/15	CUT-15 N.O.	NEORIVE	FULL SPEED

		RACK 3 SLOT 11	RELAY OUTPUT MODULE :	3
MODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DO3	1.311/00	OUT-0 N.O.	NW DRIVE	REDUCED TORQUE
DO3	1:311/01	OUT-1 N.O.	NEDRIVE	REDUCED TORQUE
003	1:311/02	OUT-2 N.O.	NW DRIVE	FAULT RESET
003	1:311/03	OUT-3 N.O.	NE DRIVE	FAULT RESET
DO3	1:311/04	OUT-4 N.O.	NW GATE	LOWER PERM.
DO3	1:311/05	OUT-5 N.O.	NWGATE	RAISE PERM.
DO3	1:311/06	OUT-8 N.O.	NE GATE	LOWER PERM.
DO3	1:311/07	OUT-7 N.O.	NE GATE	RAISE PERM.
003	1:311/08	OUT-8 N.O.	5W GATE	LOWER PERM.
DO3	1:311/09	OUT-9 N.O.	SWGATE	RAISE PERM,
DO3	L311/10	OUT-10 N.O.	SE GATE	LOWER PERM.
DO3	1:311/11	OUT-11 N.O.	SE GATE	RAISE PERM.
DO3	1:311/12	OUT-12 N.O.	SPARE	
DO3	L311/13	OUT-13 N.O.	GENERATOR	IN AUTO CMD
DOS	1:311/14	OUT-14 N.O.	GENERATOR	RUN CMD
DO3	1:311/15	OUT-15 N.O.	GENERATOR	TEST CMD

		RACK 3 SLOT 12	RELAY OUTPUT MODULE 4	
WODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
D04	0:312/00	OUT-0 N.O.	WEST MACHINERY	BRAKES RELEASE
D04	0:312/01	OUT-1 N.O.	EAST MACHINERY	BRAKES RELEASE
DO4	0:312/02	OUT-2 N.O.	SW DRIVE	ENABLE
D04	0:312/03	OUT-3 N.O.	SE DRIVE	ENABLE
D04	O:312/04	OUT-4 N.O.	SW DRIVE	RUN RAISE
D04	0:312/05	OUT-5 N.O.	SE DRIVE	RUN RAISE
D04	0:312/08	OUT-8 N.O.	SW DRIVE	RUN LOWER
D04	0:312/07	OUT-7 N.O.	SEDRIVE	RUN LOWER
D04	0:312/08	OUT-8 N.O.	SW DRIVE	CREEP SPEED
DO4	O:312/09	OUT-8 N.O.	SE DRIVE	CREEP SPEED
DO4	0:312/10	OUT-10 N.O.	SW DRIVE	FULL SPEED
DO4	0:312/11	OUT-11 N.O.	SE DRIVE	FULL SPEED
D04	0:312/12	OUT-12 N.O.	SW DRIVE	REDUCED TORQUE
DO4	0:312/13	OUT-13 N.O.	SE DRIVE	REDUCED TORQUE
D04	0:312/14	OUT-14 N.O.	SW DRIVE	FAULT RESET
DO4	0:312/15	OUT-15 N.O.	SE DRIVE	FAULT RESET

	WSP USA Inc. 2030 LENOX DRIVE, LAWRENCEVILLE, N.J. 00548	<i>we</i> b	0	CAPE MA	Y COUNTY	REHABILITATION OF	PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE:
			AM	JP	BC	CHANNEL	IO LIST 2 OF 3	SHEET REFERENCE NO.: of
Kevin Wals	Sh N.J. PE LICENSE NUMBER: 24GE05175000	DATE	Designed by	Orawin by	Checked by	STR. NO. 0500-006		SHEET NO .: 171 of 202

I/O 120VAC DIGITAL OUTPUTS

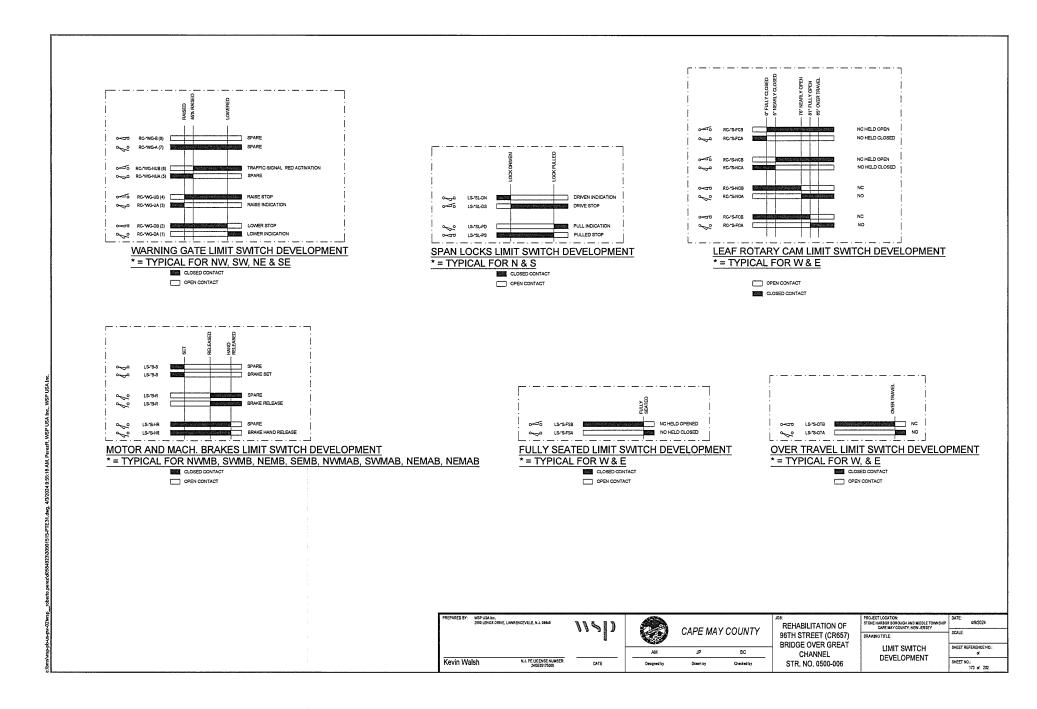
MODULE TAG	ADORESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DOS	O:45/00	OUT 00	DESK TRAFFIC LIGHT	GREEN
DOS	0:45/01	OUT 01	DESK TRAFFIC LIGHT	YELLOW
DOS	0:45/02	OUT 02	DESK TRAFFIC LIGHT	RED
005	0:45/03	OUT 03	CONTROL POWER	ON
005	0:45/04	OUT 04	NAVIGATION LIGHTS	ON
DO5	0:45/05	OUT 05	FLOOD LIGHTS	ON
DOS	0:45/06	OUT DS	NW DRIVE	FAULT LIGHT
DOS	0:45/07	OUT 07	SW DRIVE	FAULT LIGHT
DOS	0:45/08	OUT 08	NW WARNING GATE	DOWN LIGHT
DOS	O:45/09	OUT 09	NW WARNING GATE	UPLIGHT
DOS	0:45/10	OUT 10	SW WARNING GATE	DOWN LIGHT
005	0:45/11	OUT 11	SW WARNING GATE	UPLIGHT
DOS	O:45/12	OUT 12	NE WARNING GATE	DOWN LIGHT
DOS	0:45/13	OUT 13	NE WARNING GATE	UPLIGHT
DOS	0:45/14	OUT 14	SE WARNING GATE	DOWN LIGHT
DOS	0:45/15	OUT 15	SE WARNING GATE	UPLIGHT

		TORUM 4 SECT 6, 120V	AC DIGITAL OUTPUT MODU	
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DOS	C:46/00	00 TUO	NORTH SPAN	LOCK PULLED
DOS	O:46/01	OUT 01	NORTH SPAN	LOCK DRIVEN
DO6	0:46/02	OUT 02	SOUTH SPAN	LOCK PULLED
DOS	0:46/03	OUT 03	SOUTH SPAN	LOCK DRIVEN
DOS	0:46/04	OUT 04	WEST LEAF	FULLY CLOSED
DOS	0:45/05	OUT 05	WEST LEAF	NEARLY CLOSED
DOS	0:46/06	OUT 05	WEST LEAF	NEARLY OPEN
DOS	0:48/07	OUT 07	WEST LEAF	FULLY OPEN
DOS	O:46/08	OUT 08	EAST LEAF	FULLY CLOSED
DOS	0:46/09	OUT 09	EAST LEAF	NEARLY CLOSED
DOS	O;46/10	OUT 10	EAST LEAF	NEARLY OPEN
DOS	0:46/11	OUT 11	EAST LEAF	FULLY OPEN
DOB	O:48/12	OUT 12	NE DRIVE	FAULT
DOB	0:45/13	OUT 13	SE DRIVE	FAULT
DOS	0:46/14	OUT 14	SPARE	
DOA	0:48/15	OUT 15	SPARE	

		the sector of th	AC DIGITAL OUTPUT MODULE 3	
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
D07	0:47/00	OUT 00	NW MOTOR BRAKE	SET
D07	0:47/01	OUT 01	NW MOTOR BRAKE	RELEASED
D07	0:47/02	OUT 02	NW MOTOR BRAKE	HAND RELEASED
D07	0:47/03	OUT 03	NE MOTOR BRAKE	SET
007	C:47/04	OUT 04	NE MOTOR BRAKE	RELEASED
D07	0:47/05	OUT 05	NE MOTOR BRAKE	HAND RELEASED
D07	0:47/06	OUT 06	NW MACHINERY BRAKE	SET
D07	0:47/07	OUT 07	NW MACHINERY BRAKE	RELEASED
007	0:47/08	007 08	NW MACHINERY BRAKE	HAND RELEASED
007	0:47/09	CUT 09	NE MACHINERY BRAKE	SET
D07	0:47/10	OUT 10	NE MACHINERY BRAKE	RELEASED
D07	0:47/11	OUT 11	NE MACHINERY BRAKE	HAND RELEASED
D07	0:47/12	OUT 12	SW MOTOR BRAKE	SET
D07	0:47/13	OUT 13	SW MOTOR BRAKE	RELEASED
D07	0:47/14	OUT 14	SW MOTOR BRAKE	HAND RELEASED

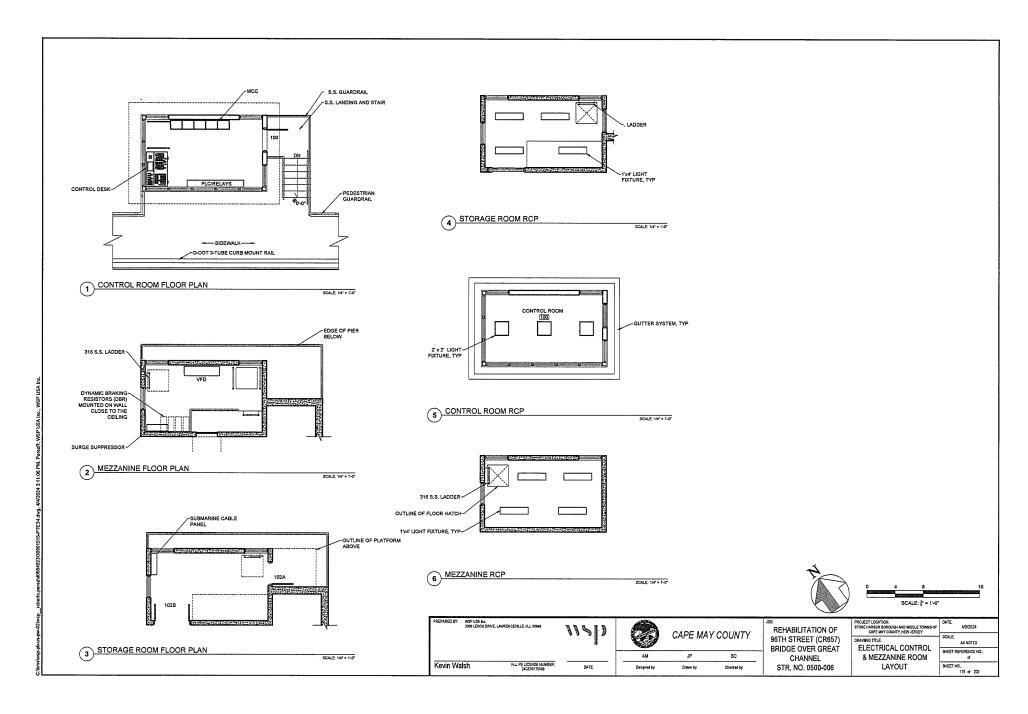
MODULE TAG	ADDRESS	INPUT/OUTPUT	EQUIPMENT	FUNCTION
DO8	0:48/00	OUT 00	SE MOTOR BRAKE	SET
DO8	0:48/01	OUT 01	SE MOTOR BRAKE	RELEASED
DOS	0:48/02	OUT 02	SE MOTOR BRAKE	HAND RELEASED
DO8	0:48/03	OUT 03	SW MACHINERY BRAKE	SET
DO8	0:48/04	OUT 04	SW MACHINERY BRAKE	RELEASED
DO8	0:48/05	OUT 05	SW MACHINERY BRAKE	HAND RELEASED
DO8	0.48/06	OUT 06	SE MACHINERY BRAKE	SET
DOS	0.48/07	OUT 07	SE MACHINERY BRAKE	RELEASED
DO8	0.48/08	OUT 08	SE MACHINERY BRAKE	HAND RELEASED
DO8	O:48/09	OUT 09	SPARE	
DO8	O:48/10	OUT 10	SPARE	
DO8	0:48/11	OUT 11	SPARE	
DO8	0:48/12	OUT 12	SPARE	
DO8	0.48/13	OUT 13	SPARE	
DOS	0:48/14	OUT 14	SPARE	

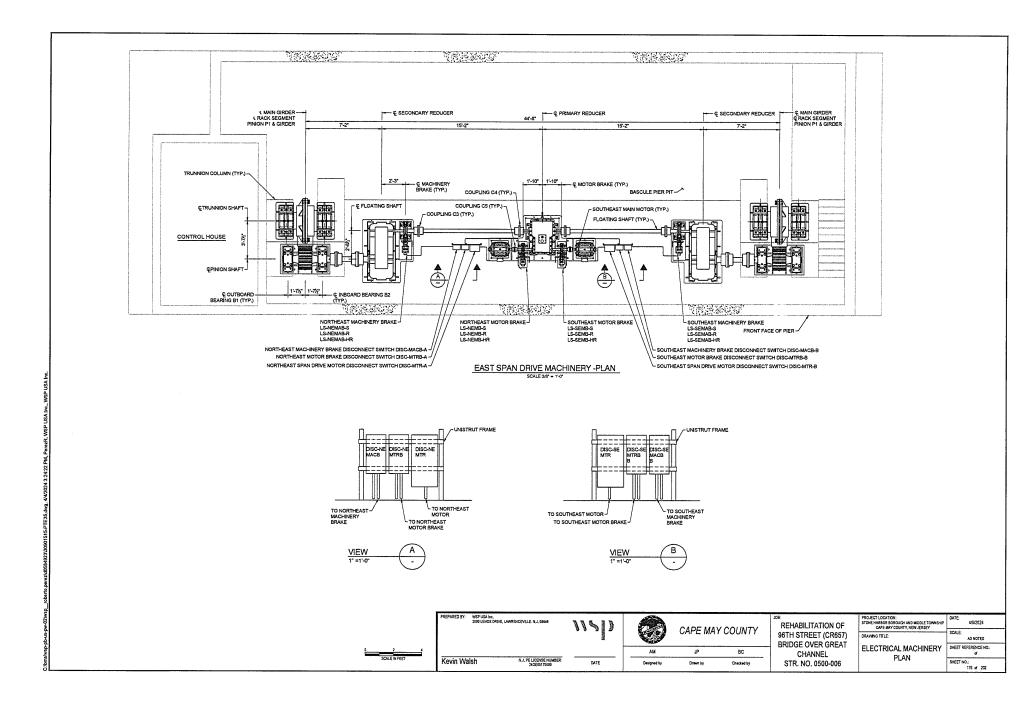
PREPARED BY W3P USA IN. 2000 LENOX DRIVE, LAWRENCEVILLE, N.J. 08448	112])		CAPE MA	Y COUNTY	REHABILITATION OF 96TH STREET (CR657) BRIDGE OVER GREAT	PROJECT LOCATION: STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	DATE: 4/9/2024 SCALE:
		АМ	JP	BC	CHANNEL	IO LIST 3 OF 3	SHEET REFERENCE NO.: of
Kevin Walsh N.J. PE LICENSE NUMBER: 24GE05175000	DATE	Designed by	Drawn by	Checked by	STR. NO, 0500-006		SHEET ND.: 172 of 202

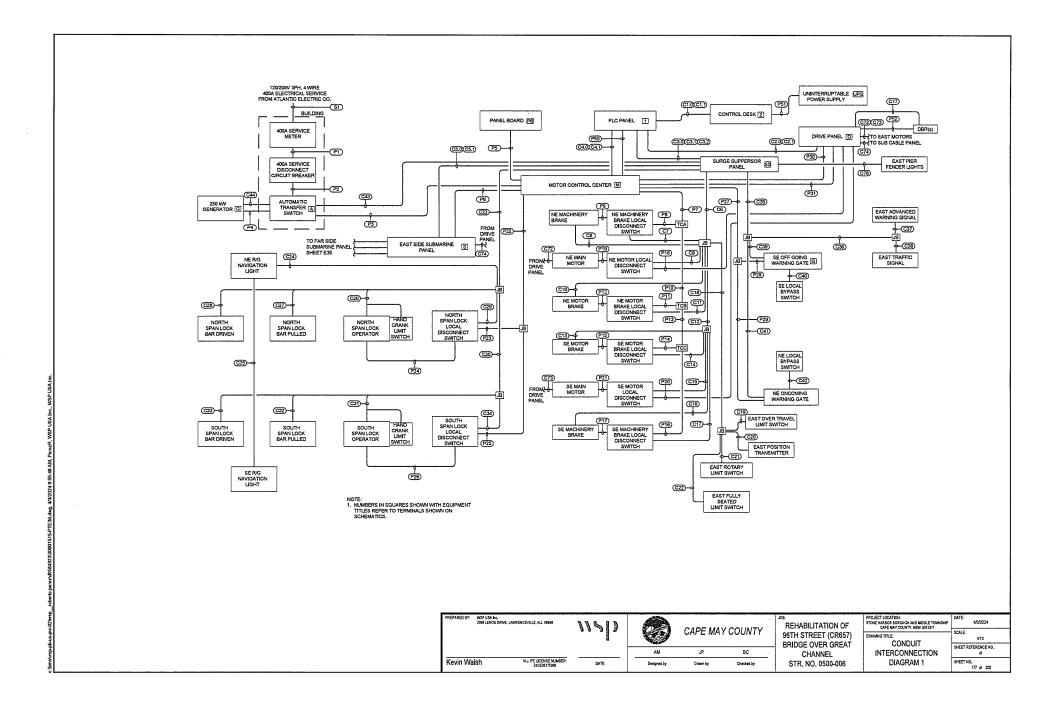


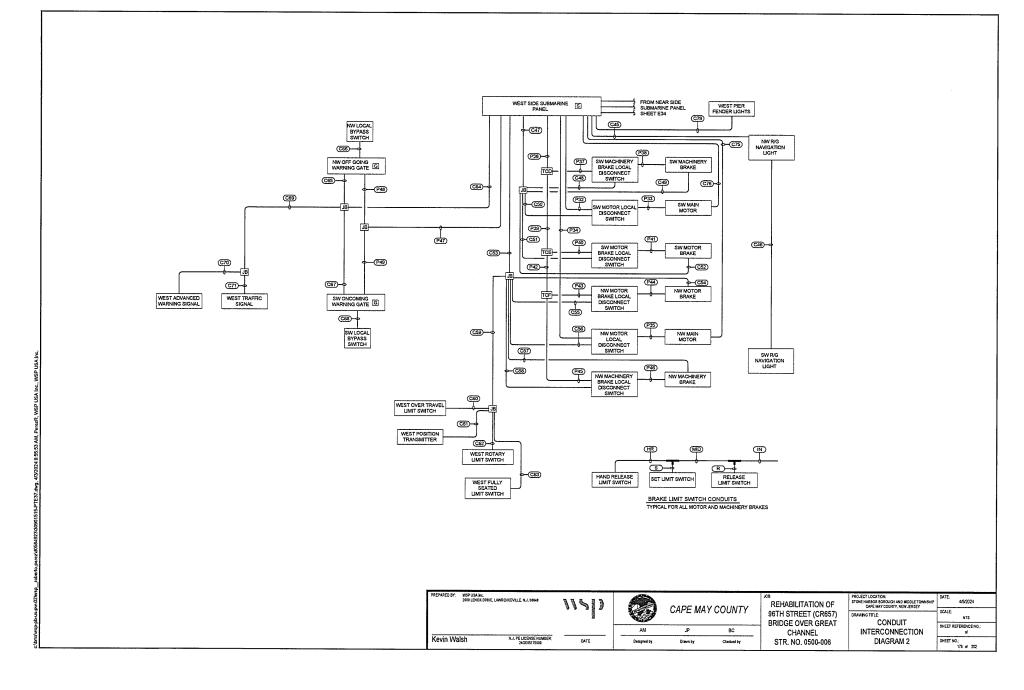
	VOLT AN		IPS	BREAKER		crt	Βv	S CONN	C XT	BRE	BREAKER		VOLT AMPS		ſ
DESCRIPTION	A		c	POLE	AMP	No	e		ĥó	AMP	POLE	Â		с	DESCRIPTION
CONTROL POWER	1500			1	20	1	H		2	15	1	240			WARNING GALE
CONTROL DESK LIGHT AND RECEPT.			600	1	20	3	Н	-+	4	20	1			2400	MAIN PANEL LIGHT
DRIVE PANEL LIGHT	2400			1	20	5	Н	\rightarrow	6	20	1	500		_	TRAFFIC LIGHTS
CONTROL HOOM				1	20	7	Н	+	8	20	1				ELECTRICAL ROOM
CONTROL ROOM RECEPT				1	20	9	Н	\vdash	10	20	1				ELECTRICAL ROOM RECEPT
NAVIGATION LIGHTS			0.64	1	20	11	Н		12	20	1			1248	HORN COMPRESSOR
						13	Н	\vdash	14	20	1				
CONTROL ROOM				2	20	15	Н		16	20	2				ELECTRICAL ROOM
HEAT POMP				-		17	H		18						HEAT PUMP
TOTAL	-		-					S/N				-			
BUS A:		VA	-	MAI	N BA	REAK	EA	RATI	VG:	175	<u>A</u>		court		DEMAND AMPS
BUS C: TOTAL		VA	-										ONTIN	wous	AHPS: - A
CONNECTED LOAD:		VA	_		(FU	u s	12	e neu	TRA	.)			РНЛ	SINC	3 @ 208 VOLTS

PREPARED BY: WSP U 2000 U		112])	8	CAPE MAY CC	DUNTY	REHABILITATION OF	STONE HARBOR BOROUGH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	0ATE: 4/9/2024 SCALE: NTS
			АМ	JP	BC	CHANNEL	ELECTRICAL PANEL SCHEDULES	SHEET REFERENCE NO.: of
Kevin Walsh	N.J. PE LICENSE NUMBER: 24GE05175000	DATE	Designed by	Drawn by C	Checked by	STR. NO. 0500-006	SUNCOULES	SHEET NO.: 174 of 202







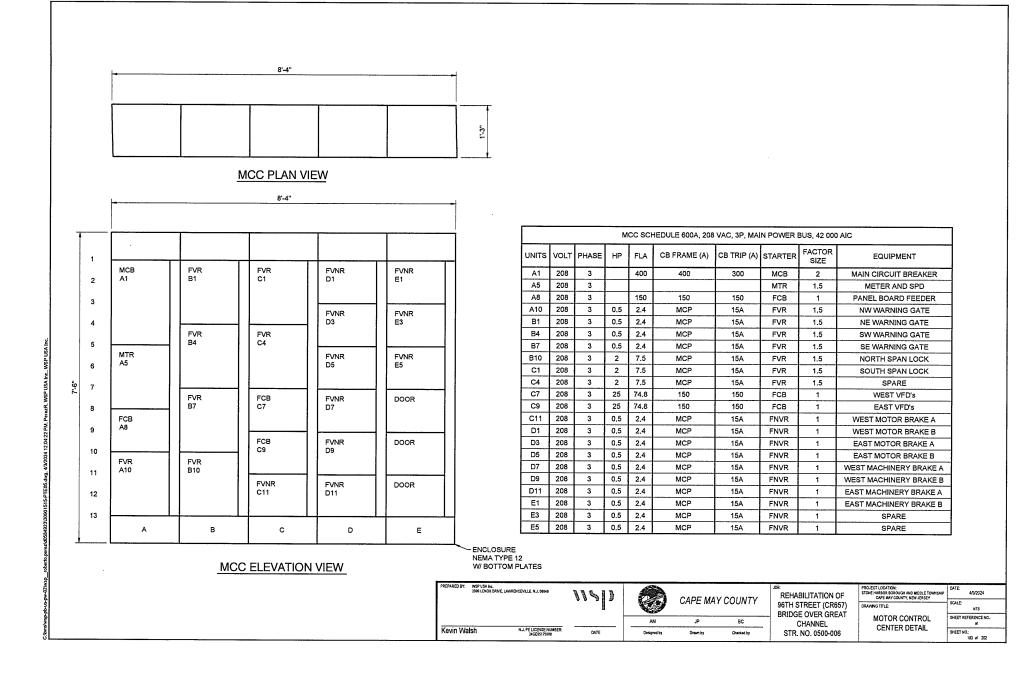


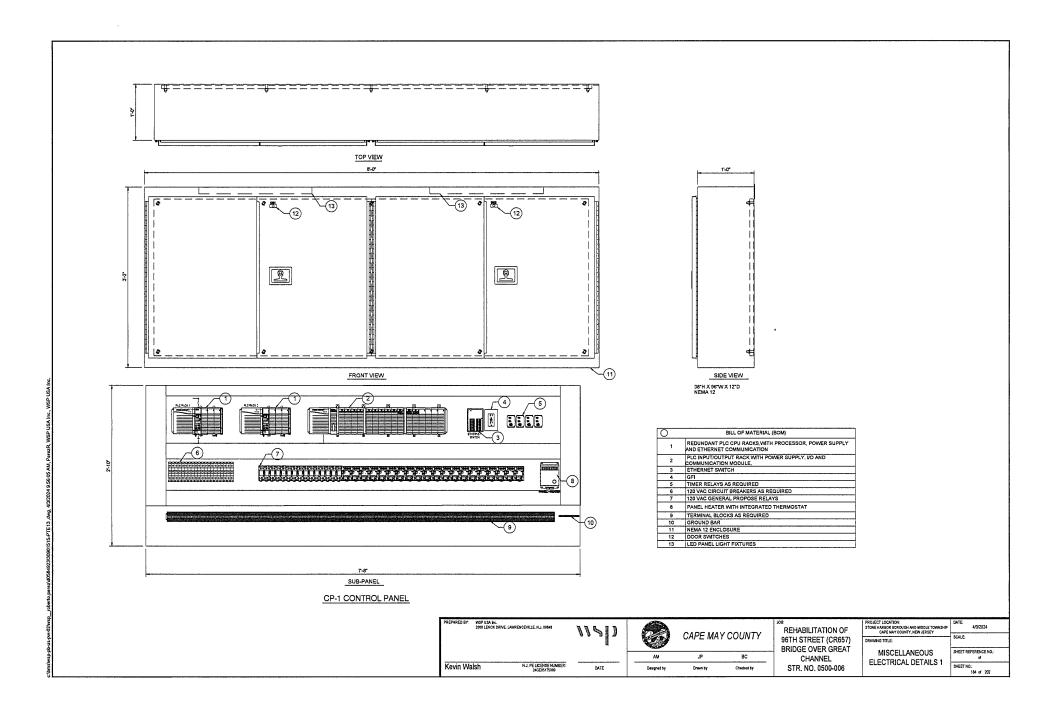
CONDUIT	SIZE	VOLTS	FROM	то	NO	AWG	WIRE NUMBERS
51	3 1/2	208	HAND HOLE	METER	4 1	500 1/0	511, 512, 513, N
P1	3 1/2	208	METER	MAIN DISCONNECT CIRCUIT BREAKER	4	500 1/0	LIA, IZA, ISA, N GND
P2	3 1/2	208	MAIN DISCONNECT CIRCUIT BREAKER	AUTOMATIC TRANSFER SWITCH	4	500 1/0	L11A, L12A, L13A, N GND
P3	3 1/2	208	AUTOMATIC TRANSFER SWITCH	MOTOR CONTROL CENTER	4	500 1/0	L118, L128, L138, N GND
P4	3 1/2	208	AUTOMATIC TRANSFER SWITCH	150 KW GENERATOR	4	500 1/0	L21, L22, L23, N GND
PS	2 1/2	208	MOTOR CONTROL CENTER	PANELBOARD	4	1/0	L31,L32,L33, N GND
P6	2 1/2	208	MOTOR CONTROL CENTER	EAST-SIDE SUBMARINE CABLE	22 8 6	10 10 2	11108, 11102, 11100, 15020, 15027, 15034, 15088, 15086, 15098, 15118, 15128, 15127, 15228, 15238, 15237, 5108, 910C, 9100, 45P S01H,802,803,841C, 842C, 843C, SND
P7	1 1/2	208	MOTOR CONTROL CENTER	TEE CONDULET A	16	10	GNU 15148, 15158, 15157, 15058, 15057, 15068, 15178, 15177, 15188, 15258, 15268, 15267, 4 59 GND
P8	1	208	TEE CONDULET A	LOCAL DISCONNECT NORTHEAST MACHINERY BRAKE	4	10 10 10	15148, 15159, 1515F, 15P GND
P9	1	208	LOCAL DISCONNECT NORTHEAST MACHINERY BRAKE	NORTHEAST MACHINERY BRAKE	4	10	1514C, 1515C, 1515G, 1 SP GND
P10	1 1/2	208	TEE CONDULET A	TEE CONDULET B	12 3	10 10	15058, 1505F, 15068, 15178, 1517F, 15188, 15258, 15268, 1526F, 3 SP GND
P11	1	208	TEE CONDULET B	LOCAL DISCONNECT NORTHEAST MOTOR BRAKE	4	10 10	15058, 1505F, 15068, 1 SP GND
P12	1	208	LOCAL DISCONNECT NORTHEAST MOTOR BRAKE	NORTHEAST MOTOR BRAKE	4	10 10	1505C, 1505G, 1506C, 15P GND
P13	1	208	TEE CONDULET B	TEE CONDULET C	8 2	10 10	15178, 1517F, 15188, 15258, 15268, 1526F, 2 SP GND
P14	1	208	TEE CONDULET C	LOCAL DISCONNECT SOUTHEAST MOTOR BRAKE	4	10 10	15258, 15268, 1526F, 1 SP GND
P15	1	208	LOCAL DISCONNECT SOUTHEAST MOTOR BRAKE	SOUTHEAST MOTOR BRAKE	4	10 10	1525C, 1526C, 1526G, 1 SP GND
P16	1	208	TEE CONDULET C	LOCAL DISCONNECT SOUTHEAST MACHINERY BRAKE	4	10 10	15178, 1517F, 15188, 1 SP GND
P17	1	208	LOCAL DISCONNECT SOUTHEAST MACHINERY BRAKE	SOUTHEAST MACHINERY BRAKE	4	10 10	1517C, 1517G, 1518C, 1 SP GND
P18	1 1/2	208	DRIVE PANEL	LOCAL DISCONNECT NORTHEAST MAIN MOTOR	4	2 2	821C, 822C, 823C, 15P GND
P19	1 1/2	208	LOCAL DISCONNECT NORTHEAST MAIN MOTOR	NORTHEAST MAIN MOTOR	4	2 2	821D, 822D, 8230, 15P GND
P20	1 1/2	208	DRIVE PANEL	LOCAL DISCONNECT SOUTHEAST MAIN MOTOR	4	2 2	861C, 862C, 863C, 15P GND
P21	1 1/2	208	LOCAL DISCONNECT SOUTHEAST MAIN MOTOR	SOUTHEAST MAIN MOTOR	4	2 2	861D, 862D, 863D, 15P GND
P22	1	208	MOTOR CONTROL CENTER	SPAN LOCKS JUNCTION BOX (POWER)	8 2	10 10	1310A, 1310B, 1310C, 1310F, 1310F, 1310G, 25P GND
P23	1	208	SPAN LOCKS JUNCTION BOX (POWER)	NORTH SPAN LOCK LOCAL DISCONNECT	4	10 10	1310A, 1310B, 1310C, 15P GND
P24	1	208	NORTH SPAN LOCK LOCAL DISCONNECT	NORTH SPAN LOCK	4	10 10	1312A, 1312B, 1312C, 15P GND
P25	1	208	SPAN LOCKS JUNCTION BOX (POWER)	SOUTH SPAN LOCK LOCAL DISCONNECT	4	10 10	1310F, 1310F, 1310G, 15P GND
P26	1	208	SOUTH SPAN LOCK LOCAL DISCONNECT	SOUTH SPAN LOCK	4	10 10	1312F, 1312F, 1312G,15P GND
P27	1	208	MOTOR CONTROL CENTER	EAST WARNING GATES JUNCTION BOX (POWER)	8	10 10	12108, 1210C, 1210D, 1010B, 1010C, 1010D, 2 SP GND
P28	1	208	EAST GATES JUNCTION BOX (POWER)	SOUTHEAST OFF WARNING GATE	4	10 10	12108, 1210C, 12100, 15P GND
P29	1	208	EAST GATES JUNCTION BOX (POWER)	NORTHEAST ON WARNING GATE	4	10 10	10108, 1010C, 10100, 15P GND
P30	2 1/2	208	MOTOR CONTROL CENTER	DRIVE PANEL	8 2	1 6	801D, 802A, 803A, 821, 822, 823, 25P GND
P31	2 1/2	208	DRIVE PANEL	MOTOR CONTROL CENTER	8 2	1 6	801H, 802, 803, 841C, 842C, 843C, 25P GND
P32	1 1/2	208	WEST SUBMARINE CABLE	LOCAL DISCONNECT SOUTHWEST MAIN MOTOR	4	2 2	841C, 842C, 843C, 15P GND
P33	1 1/2	208	LOCAL DISCONNECT SOUTHWEST MAIN MOTOR	SOUTHWEST MAIN MOTOR	4	2 2	841D, 842D, 843D, 15P GND
P34	1 1/2	208	WEST SUBMARINE CABLE	LOCAL DISCONNECT NORTHWEST MAIN MOTOR	4	2 2	801H, 802, 803, 15P GND
P35	1 1/2	208	LOCAL DISCONNECT NORTHWEST MAIN MOTOR	NORTHWEST MAIN MOTOR	4 1 16	2 2 10	801, 8027, 8037, 8037, 159 GND 1518, 15128, 15128, 1528, 15238, 15238, 15237, 15020, 15037, 15038, 15085,
P36 P37	1 1/2	208	WEST SUBMARINE CABLE	TEE CONDULET D	4	10	12106, 1220, 1220, 1220, 1220, 1220, 1220, 1200,
P37 P38	1	208 208	TEE CONDULET D LOCAL DISCONNECT SOUTHWEST MACHINERY BRAKE	MACHINERY BRAKE SOUTHWEST MACHINERY BRAKE	1	10	511C, 1512C, 1512C, 1512C
P38 P39	1 1/2	208	MACHINERY BRAKE TEE CONDULET D	SOUTHWEST MACHINERY BRAKE	1 12	10 10 10 10	GND 15228, 15238, 15238, 1502D, 1502F, 1503H, 1508B, 1508F, 1509B,35P GND
- 33	1 4/4	208			3	10	
				PREPARED BY: WSP USA be: 2000 LENOX DRIVE, UMWRENCEVILLE, N.J. 086	18	119	96TH STREET (CR657) DRAWNG TITLE SEET (CR657) DRAWNG TITLE SEET (CR657) DRAWNG TITLE SEET REVEAL OF THE SEET
				Kevin Walsh NJ. PE LICENSE 34GE05175	NUMBER:	DATE	CHANNEL SCHEDULE 1
				24GE05175	~~	C	STR, NO. USUC-UUS

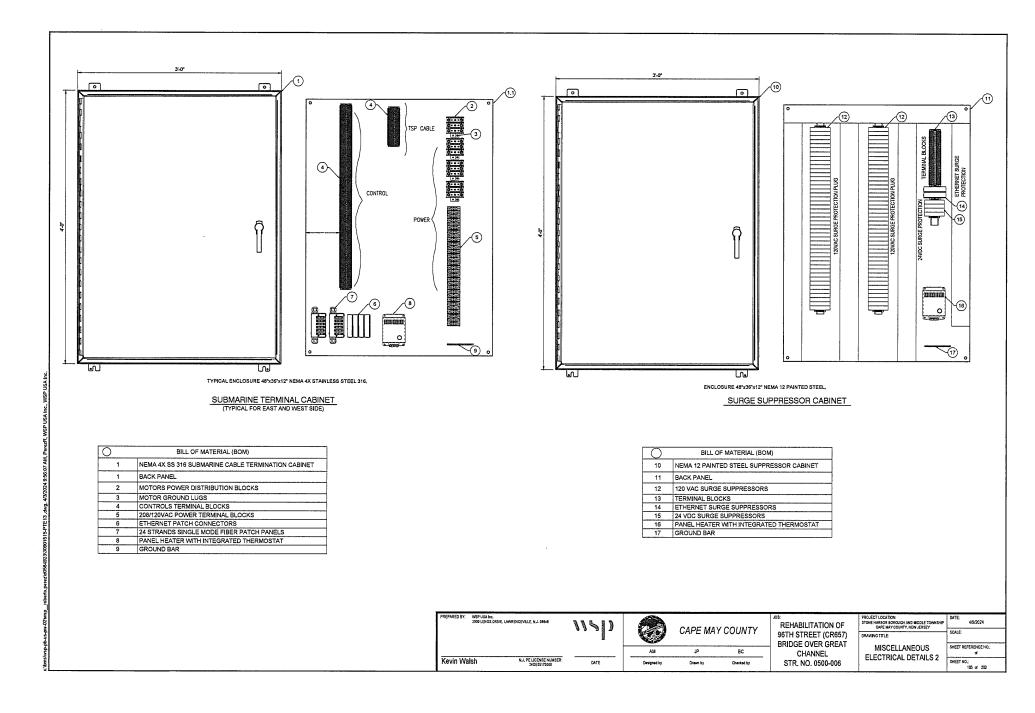
CONDUIT	SIZE INCH	VOLTS	FROM	то	NO	AWG	WIRE NUMBERS
P40	1	208	TEE CONDULET E	LOCAL DISCONNECT SOUTHWEST MOTOR BRAKE	4	10 10	1522B, 1523B, 1523F, 15P GND
P41	1	208	LOCAL DISCONNECT SOUTHWEST MOTOR BRAKE	SOUTHWEST MOTOR BRAKE	4	10 10	1522C, 1523C, 1523G, 15P GND
P42	1	208	TEE CONDULET E	TEE CONDULET F	8 2	10 10	1502D, 1502F, 1503H, 1508B, 1508F, 1509B, 25P GND
P43	1	208	TEE CONDULET F	LOCAL DISCONNECT NORTHWEST MOTOR BRAKE	4	10 10	1502D, 1502F, 1503H, 1SP GND
P44	1	208	LOCAL DISCONNECT NORTHWEST MOTOR BRAKE	NORTHWEST MOTOR BRAKE	4	10 10	1502E, 1502G, 1503J, 15P GND
P45	1	208	TEE CONDULET F	LOCAL DISCONNECT NORTHWEST MACHINERY BRAKE	4	10	1508B, 1508F, 1509B, 1SP GND
P46	1	208	LOCAL DISCONNECT NORTHWEST MACHINERY BRAKE	NORTHWEST MACHINERY BRAKE	4	10	1508C, 1508G, 1509C, 15P GND
P47	1	208	WEST SUBMARINE CABLE	WEST GATES JUNCTION BOX (POWER)	8	10	9108, 910C, 910D, 1108, 1110C, 1110D, 25P GND
P48	1	208	WEST GATES JUNCTION BOX (POWER)	NORTHWEST WARNING GATE	4	10	9108, 910C, 910D, 1SP GND
P49	1	208	WEST GATES JUNCTION BOX (POWER)	SOUTHWEST WARNING GATE	4	10	1108, 1110C, 1110D, 15P
P50	1	208	MCC	PLC PANEL	4	10	GND L1,L2,L3, N
P51	1	208	CONTROL DESK	UNINTERRUPTIBLE POWER SUPPLY	2	10 12	GND UPS-L, UPS-N
P52	2 1/2	208	ORIVE PANEL	DYNAMIC BRAKING RESISTOR	8	12	GND 803D, 803E, 843E, 843F, 823E, 823F, 863E, 863F
		120			45	12	003, 023, 027, 0358, 0368, 037A, 10268, 11268, 1128A, 12268, 1228A, 1322A, 1323 1324, 1325, 1327A, 1329, 510, 524, 552, 9268, 927, 928A, 929,
C1.0	2 1/2		PLC PANEL	CONTROL DESK			1324, 1325, 1327A, 1329, 510, 524, 552, 9268, 927, 928A, 929, UPS-L, 1026A, 002, 011, 024A, 027A, 5L, 042B, 054, 059, 1431, 1432, 1433, 1434, 85P.
		24VDC			1 2	12 12	GND 011,-24VDC
C1.1	1	208 4-20 MA	PLC PANEL	CONTROL DESK	4	12 14 - 16	L1, L2, L3, N 1547, 1547A, 1547B, 1547C; SHIELDED TWISTED PAIRS (STP)
					47	12	1422A, 1424, 1426, 1428, 414, 415, 416, 417, 422A, 423, 424, 425, 450, 451, 452, 453, 454, 455, 456, 457, 808A, 809, 828A, 829, 848A, 849, 868A, 869,
C2.0	2 1/2	120	PLC PANEL	DRIVE PANEL			808, 810, 811, 812, 813, 814, 819, 828, 830, 831, 832, 833, 834, 839, 848 850, 851, 852, 853, 854, 859, 868, 870, 871, 872, 873, 874, 879, N,85P
	<u> </u>	1 20.14			1 10	12 14 - 16	GND 811, 812, 813, 814, 831, 832, 833, 834, 851, 852, 853, 854, 871, 872, 873
C2.1	1	4-20 MA	PLC PANEL	DRIVE PANEL	79	12	874; SHIELDED TWISTED PAIRS (STP) 102, 1026A, 1026B, 105, 108, 111, 1126B, 1128A, 114, 122,1226B, 1226F, 1228A,
					13		1228F, 125, 128, 131, 1322A, 1322B, 1324, 1324A, 1327A, 1327B, 1329, 1329A, 13 137, 144, 147A, 150A, 153A, 202, 215A, 217, 222, 222, 222, 222, 222, 222, 222
C3.0	2 1/2	120	PLC PANEL	SURGE SUPRESSOR PANEL			222, 246, 246, 250, 250, 250, 302, 302, 926B, 926C, 928A, 928B, 926, 926A, 9 101, 102A, 104, 104A, 105A, 107, 107A, 108A, 110, 110A, 111A, 113, 114A, 105
				*****	1	12	GND
1					78	12	025, 027,027A, 4N, 044, 050, 052A, 055, 059, 5N, 115, 116, 122A, 123, 124, 125A, 126, 127, 128A, 129, 130, 131A, 132, 133, 134A, 135, 136, 137A, 142, 143, 144, 145, 146, 147A, 147, 148, 148, 148, 148, 148, 148, 148, 148
C3.1	2 1/2	120	PLC PANEL	SURGE SUPRESSOR PANEL			144A, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 203 202B, 204, 205, 206, 215, 216, 217A, 222A, 223, 224, 225, 226, 227, 228, 2 248, 249, 250A, 251, 252, 253, 302A, 303, 406, 407, N1, 105P
		24 VDC			1	12 12	GND 012A,-24VDC,
C3.2	3/4	24 VDC 4-20MA	PLC PANEL	SURGE SUPRESSOR PANEL	2 2 42	14-16	462, 463, 464, 465; STP
C4	1 1/2	120	PLC PANEL	MOTOR CONTROL CENTER	42	12	1226F, 1228E, 13228, 1324A, 13278, 1329A, 1530, 1531, 1535, 1536, 222, 242, 24 246, 230A, 231, 232, 233, 234, 235, 236, 237, 242A, 243, 244, 245, 246A, 2 302, 308, 309, 310, 311, 313, 313, 315, 359
C4.1	1	4-20 MA	PLC PANEL	MOTOR CONTROL CENTER	1	12 14 -16	GND 1547, 1547A, 1547B, 1547C ; SHIELDED TWISTED PAIRS (STP)
	-				72	12	025, 027, 027A, 4N, 044, 050, 052A, 055, 101, 102A, 104, 107A, 108A, 110, 114A 115, 116, 122A, 123, 124, 125A, 126, 127, 134A, 135, 136, 153, 154, 155, 1
C5.0	2 1/2	120	SURGE SUPRESSOR PANEL	EAST SUBMARINE CABLE			157, 222A, 223, 226, 227, 250A, 251, 302A, 102, 108, 1126B, 1128A, 114, 122, 125, 134, 153A, 222, 222, 222, 222, 250, 302, 406, N1, 926B, 926C, 928A, 928B, 92
					1	12	926A, 928, 105P GND
C5.1	3/4	24 VDC 4-20MA	SURGE SUPRESSOR PANEL	EAST SUBMARINE CABLE	2	12 14-16	012A, -24VDC 462, 463; (STP)
		120			40	12	222, 228, 128, 128A, 129, 130, 250, 252, 137, 137A, 142, 143, 224, 144, 144A, 144 146, 222, 225, 250, 253, 131, 131A, 132, 133, 229, 202, 206, 202A, 202B, 204,
C6	2 1/2		SURGE SUPRESSOR PANEL	NORTHEAST MACHINERY JUNCTION BOX (CONTROL)	1	12	205, 302, 303, 65P GND
		24VDC 4-20 MA			2	12 14	012A, -24VDC 464, 465, (STP)
C7	3/4	120	NORTHEAST MACHINERY JUNCTION BOX (CONTROL)	LOCAL DISCONNECT NORTHEAST MACHINERY BRAKE	3 1	12 12	222, 228, 15P GND
CS	3/4	120	NORTHEAST MACHINERY JUNCTION BOX (CONTROL)	NORTHEAST MACHINERY BRAKE	5 1	12 12	128, 128A, 129, 130, 15P GND
ca	3/4	120	NORTHEAST MACHINERY JUNCTION BOX (CONTROL)	LOCAL DISCONNECT NORTHEAST MOTOR	3	12 12	250, 252, 15P GND
C10	3/4	120	NORTHEAST MACHINERY JUNCTION BOX (CONTROL)	NORTHEAST MOTOR BRAKE	5	12	137, 137A, 142, 143, 15P GND
C11	3/4	120	NORTHEAST MACHINERY JUNCTION BOX	LOCAL DISCONNECT NORTHEAST MOTOR	3	12	222, 224, 1SP
C11	1	120	(CONTROL) NORTHEAST MACHINERY JUNCTION BOX	BRAKE SOUTHEAST MACHINERY JUNCTION BOX	1 16	12	GND 144, 144A, 145, 146, 222, 225, 250, 253, 131, 131A, 132, 133, 229, 35P
	L	120	(CONTROL)	(CONTROLS)	1	12	GND
			PREPARED BY:	WSP USA Inc. 2000 LENCX DRIVE, LAWRENCEVILLE, N.J. 08648	<i>]]</i> a	- 1 3	
					23,	פור	CAPE MAY COUNTY 96TH STREET
						•	BRIDGE OVER
			Kevin Wa	Ish NJ. PE LICENSE NUMBER:		ATE	AMP CHANNI Designed by Drewn by Charaked by STR. NO. 05
							Designed by Drawn by Checked by STR NO 05

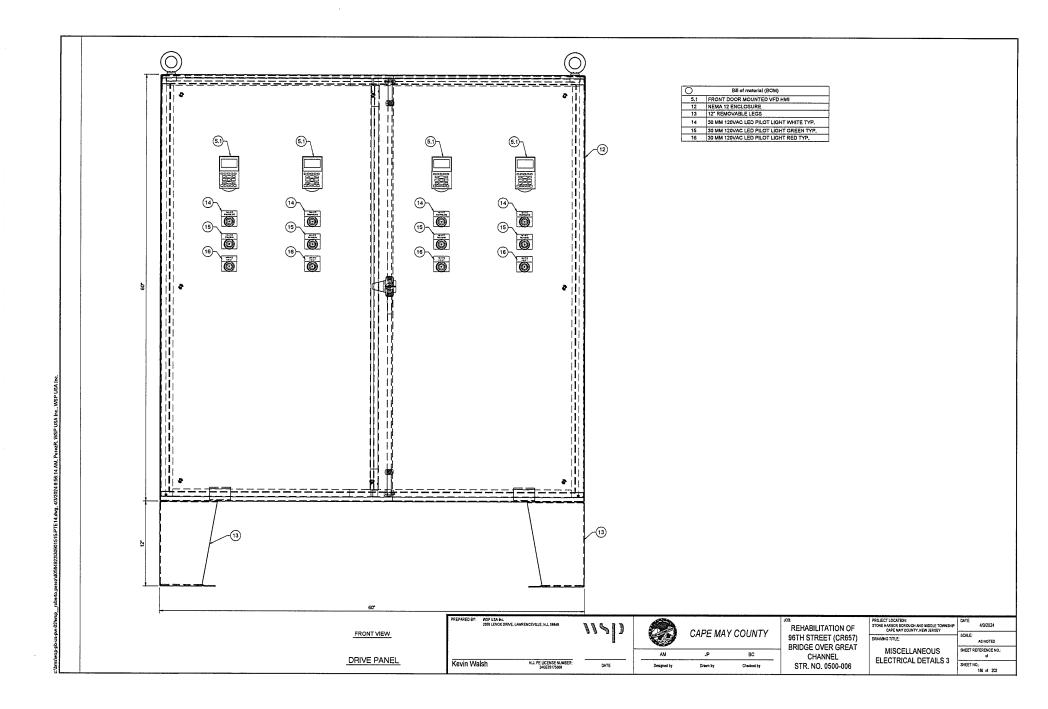
CONDUIT NUMBER	SIZE INCH	VOLTS	FROM	то	NO	AWG	WIRE NUMBERS
C13	3/4	120	SOUTHEAST MACHINERY JUNCTION BOX (CONTROLS)	SOUTHEAST MOTOR BRAKE	5 1	12 12	144, 144A, 145, 146,15P GND
C14	3/4	120	SOUTHEAST MACHINERY JUNCTION BOX (CONTROLS)	LOCAL DISCONNECT SOUTHEAST MAIN MOTOR BRAKE	3	12 12	222, 225, 15P GND
C15	3/4	120	SOUTHEAST MACHINERY JUNCTION BOX (CONTROLS)		3	12 12 12	250, 253, 15P GND
C16	3/4	120	SOUTHEAST MACHINERY JUNCTION BOX		5	12	SND 131, 131A, 132, 133, 15P GND
C17	3/4	120	(CONTROLS) SOUTHEAST MACHINERY JUNCTION BOX	LOCAL DISCONNECT SOUTHEAST	3	12	222, 229, 15P
 ,		120	(CONTROLS)	MACHINERY BRAKE	1 10	12	GND 202, 206, 202A, 202B, 204, 205, 302, 303, 25P
C18	1	24VDC	NORTHEAST MACHINERY JUNCTION BO (CONTROL)	EAST LIMIT SWITCHES JUNCTION BOX	1 2	12 14 12	GND 012A, -24VDC,
C19	3/4	4-20 MA 120	EAST LIMIT SWITCHES JUNCTION BOX	EAST OVERTRAVEL LIMIT SWITCH	3	12 12 12	464, 465, (STP) 202, 206, 1SP
C20	3/4	24 VDC	EAST LIMIT SWITCHES JUNCTION BOX	EAST POSITION TRANSMITTER	2	12	GND 012A,-24VDC
C21	3/4	4-20 MA 120	EAST UMIT SWITCHES JUNCTION BOX	EAST ROTARY LIMIT SWITCHES	1 7	12	464, 465; (STP) 202, 202A, 202B, 204, 205, 25P
C22	3/4	120	EAST LIMIT SWITCHES JUNCTION BOX	FULLY SEATED LIMIT SWITCH	3	12	GND 302, 303, 15P
				NORTHEAST SPAN LOCK JUNCTION BOX	1	12	GND 050, 0524,5N, 147A, 148, 147, 1322A, 1322B, 149, 1324, 1324A, 248, 246, 35P
C23	1	120	SURGE SUPRESSOR PANEL	(CONTROLS)	1	12	GND
C24	3/4	120	NORTHEAST SPAN LOCKS JUNCTION BO (CONTROLS)	NORTHEAST NAVIGATION LIGHT (R/G)	4	12 12	050, 052A, SN, 1SP GND
C25	3/4	120	NORTHEAST NAVIGATION LIGHT (R/G)	SOUTHEAST NAVIGATION LIGHT (R/G)	4	12 12	050, 052A,5N, 15P GND
C26	3/4	120	NORTHEAST SPAN LOCKS JUNCTION BOX (CONTROLS)	NORTHEAST SPAR EOCK	3 1	12 12	147A, 148, 15P GND
C27	3/4	120	NORTHEAST SPAN LOCKS JUNCTION BO (CONTROLS)	LIMIT SWITCH	5 1	12 12	147A, 147, 132ZA, 1322B, 15P GND
C28	3/4	120	NORTHEAST SPAN LOCKS JUNCTION BO (CONTROLS)	NORTHEAST SPAN LOCK DRIVEN BAR LIMIT SWITCH	5 1	12 12	147A, 149, 1324, 1324A, 15P GND
C29	3/4	120	NORTHEAST SPAN LOCKS JUNCTION BOY (CONTROLS)	LOCAL DISCONNECT NORTHEAST SPAN LOCK	3 1	12 12	248, 246, 15P GND
C30	1	120	NORTHEAST SPAN LOCKS JUNCTION BO	SOUTHEAST SPAN LOCKS JUNCTION BOX (CONTROLS)	13 1	12 12	150A, 151, 150, 1327A, 1327B, 152, 1329A, 249, 246, 35P GND
C31	3/4	120	SOUTHEAST SPAN LOCKS JUNCTION BO		3	12 12	150A, 151, 15P GND
C32	3/4	120	SOUTHEAST SPAN LOCKS JUNCTION BOX	SOUTHEAST SPAN LOCK PULLED BAR	5	12	150A, 150, 1327A, 1327B, 15P GND
C33	3/4	120	(CONTROLS) SOUTHEAST SPAN LOCKS JUNCTION BOX	LIMIT SWITCH SOUTHEAST SPAN LOCK DRIVEN BAR LIMIT SWITCH	5	12	150A, 152, 1329, 1329A, 15P
C34	3/4	120	(CONTROLS) SOUTHEAST SPAN LOCKS JUNCTION BOX	LOCAL DISCONNECT SOUTHEAST SPAN	1 3	12	GND 249, 246, 15P
64	3/4	120	(CONTROLS)	LOCK	1 44	12	GND 025. 035B. 036B. 037A. 4N. 027.027A. 031. 110A. 111. 111A. 113. 1222. NI. 1226.
C35	2 1/2	120	SURGE SUPRESSOR PANEL	EAST GATES JUNTION BOX (CONTROLS)		12	1226A, 1228, 1226B, 1226F, 1228A, 1228F, 104A, 105, 105A, 407, 107, 1022, 1026, 1026A, 1028, 1026B, 1026F, 1028A, 1028E, 105P
C36	3/4	120	EAST GATES JUNTION BOX (CONTROLS)	EAST TRAFFIC SIGNALS JUNCTION BOX	7	12	GND 025, 0358, 0368, 037A ,4N, 25P GND
C37	3/4	120	TRAFFIC SIGNALS JUNCTION BOX	EAST ADVANCE WARNING SIGN	3	12 12 12	025, 4N, 15P GND
C38	3/4	120	TRAFFIC SIGNALS JUNCTION BOX	EAST TRAFFIC SIGNAL	5	12	0358, 0368, 037A ,4N, 15P GND
C39	1 1/2	120	EAST GATES JUNTION BOX (CONTROLS)	SOUTHEAST OFF WARNING GATE	22	12	027,027A, 031, 4N, 110A, 111, 111A, 113, 1222, N1, 1226, 1226A, 1228, 1226B, 1226F, 1228A, 1228F, 55F
				SOUTHEAST WARNING GATE BYPASS	1	12	1226, 1226, 1228, 15P
C40	3/4	120	SOUTHEAST OFF WARNING GATE	SWITCH	1 23	12	GND 027.027A.031, 4N.104A, 105, 105A, 107, 407, 1022, N1, 1026, 1026A, 1028, 1026B,
C41	1 1/2	120	EAST GATES JUNTION BOX (CONTROLS)	NORTHEAST ON WARNING GATE	1	12	1026F, 1028A, 1028E, 55P GND
C42	3/4	120	NORTHEAST ON WARNING GATE	NORTHEAST WARNING GATE BYPASS SWITCH	4 1	12 12	1026, 10264, 1028, 15P GND
C43	3/4	120	SURGE SUPRESSOR PANEL	AUTOMATIC TRANSFER SWITCH	7	12 12	215, 216, 215A, 217,217A, 25P GNO
C44	3/4	120	AUTOMATIC TRANSFER SWITCH	EMERGENCY GENERATOR	3	12 12	217,217A, 15P, AS RECOMMENDED BY THE GENERATOR MANUFACTURER GND
C45	3/4	120	WEST SUBMARINE CABLE	NORTHWEST NAVIGATION LIGHT R/G	4 1	12 12	050, 052A, 5N, 1SP GND
C46	3/4	120	NORTHWEST NAVIGATION LIGHT R/G	SOUTHWEST NAVIGATION LIGHT R/G	4 1	12 12	050, 052A, 5N, 1SP GND
C47	1	120	WEST SUBMARINE CABLE	SOUTHWEST MACHINERY JUNCTION BOX (CONTROL)	16 1	12 12	227, 222, 125, 125A, 126, 127, 251, 250, 223, 134, 134A, 135, 136, 3SP GND
C48	3/4	120	SOUTHWEST MACHINERY JUNCTION BO		3 1	12 12	227, 222, 15P GND
C49	3/4	120	SOUTHWEST MACHINERY JUNCTION BO		5 1	12	125, 1254, 126, 127, 15P
C50	3/4	120	SOUTHWEST MACHINERY JUNCTION BO	LOCAL DISCONNECT SOUTHWEST MOTOR	3	12 12	251, 250, 15P GND
		1		IEPARED BY: WSP USA Inc. 1000 LENOX DRIVE, LAWRENCEVILLE, N.J. 08445	-		108: PROJECT LOCATION: DATE
				2000 LENCK DRIVÉ, LAWRENCEVILLÉ, N.J. 98648		116	
							901n STREEL (CR057) DRAWING INTE NTS
			_				AM JP BC CHANNEL SCHEDULE 3
			l h	Kevin Walsh NJ. PE LICENSE NUI 24GE05175000	MOEN:	DATE	Desgned by Drawn by Checked by STR. NO. 0500-006 SUITEDULE 3 SHEET NO.: 121 of

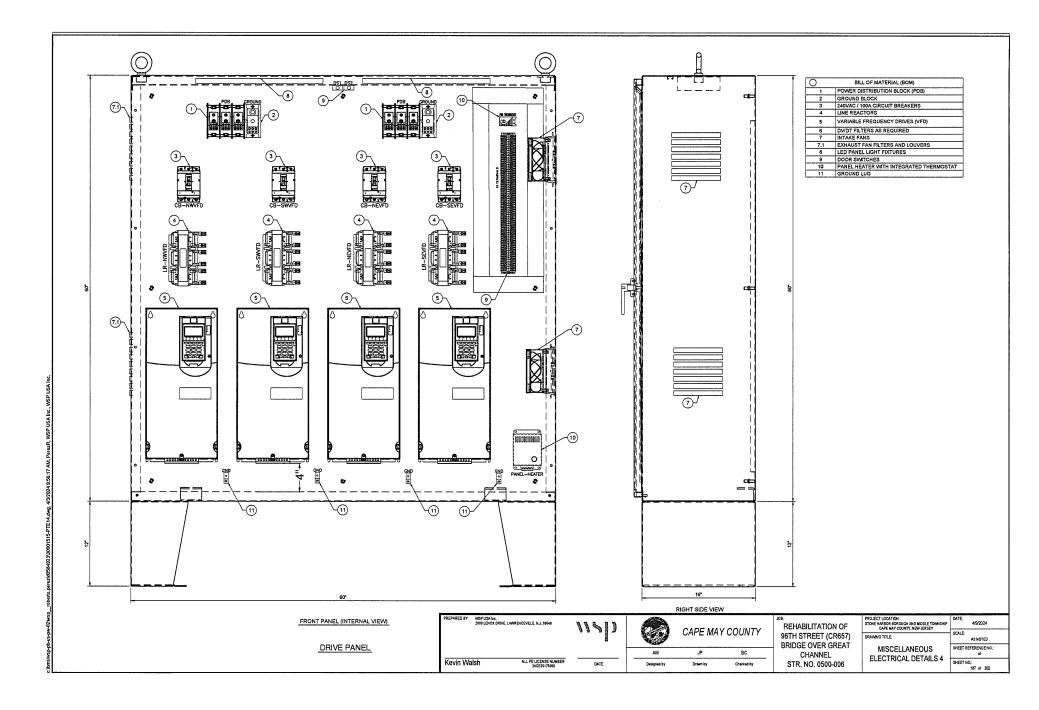
AM JP BC CHANNEL CONDUIT AND CABLE SHEET	CONDUIT NUMBER	SIZE INCH	VOLTS	FROM	то	NO	AWG	WIRE NUMBERS			
	C51	3/4	120	SOUTHWEST MACHINERY JUNCTION BOX (CONTROL)	LOCAL DISCONNECT SOUTHWEST MOTOR BRAKE	3 1	12 12	223, 222, 1SP GND			
	C52	3/4	120	SOUTHWEST MACHINERY JUNCTION BOX (CONTROL)	SOUTHWEST MOTOR BRAKE	5	12 12	134, 134A, 135, 136, 15P GND			
	C53	1	120		NORTHWEST MACHINERY JUNCTION BOX (CONTROL)	16 1		114, 114A, 115, 116, 222A, 222, 250A, 250, 122, 122A, 12: GND	3, 124, 226, 3SP		
	C54	3/4	120	NORTHWEST MACHINERY JUNCTION BOX		5		114, 114A, 115, 116, 15P			
Get 4.9 1.0 MONUT Disconter Machine (D) 1.0 2 2.0 2	C55	3/4	120	NORTHWEST MACHINERY JUNCTION BOX	LOCAL DISCONNECT NORTHWEST MOTOR	3	12	222A, 222, 1SP			
	CS6	3/4	120	NORTHWEST MACHINERY JUNCTION BOX		3		250A, 250, 15P			
Col Mode Unit Monther Mannender Auferbander Image: Col Image:	C57	3/4	120	NORTHWEST MACHINERY JUNCTION BOX	NORTHWEST MACHINERY BRAKE	5	12	122, 122A, 123, 124, 15P			
c. 1 10 NOTIFIE TRANSMERT NET UNIT SINC 164 JUNIT S			120	NORTHWEST MACHINERY JUNCTION BOX	LOCAL DISCONNECT NORTHWEST			226, 222, 1SP			
C I Note: Note: </td <td></td> <td></td> <td></td> <td></td> <td>MACHINERY BRAKE</td> <td>-</td> <td>12</td> <td>153A, 157, 153, 154, 155, 156, 302, 302A, 45P</td> <td></td> <td></td> <td></td>					MACHINERY BRAKE	-	12	153A, 157, 153, 154, 155, 156, 302, 302A, 45P			
cols 3.44 1.30 WHIT WHIT WHOTES LANGE ONE OF WHIT WHIT WHOTES LANGE ONE OF WHIT WHIT WHIT WHIT WHIT WHIT WHOTES LANGE ONE OF WHIT WHIT WHIT WHIT WHIT WHIT WHOTES LANGE ONE OF WHIT WHIT WHIT WHIT WHIT WHIT WHIT WHIT	C59	1		(CONTROL)	WEST LIMIT SWITCHES JUNCTION BOX	1 2	12	012A, -24VDC			
cm Ave Av	C60	3/4		WEST LIMIT SWITCHES JUNCTION BOX	WEST OVERTRAVEL LIMIT SWITCH	3		153A, 157, 1SP			
cols juil juil juil juil juil juil juil juil	C61	3/4		WEST LIMIT SWITCHES JUNCTION BOX	WEST POSITION TRANSMITTER			012A, -24VDC			
cm im im< im< <th< td=""><td>C62</td><td>3/4</td><td>1</td><td></td><td></td><td>7</td><td></td><td>153A, 153, 154, 155, 156, 2SP</td><td></td><td></td><td></td></th<>	C62	3/4	1			7		153A, 153, 154, 155, 156, 2SP			
Col. 21/2 <th< td=""><td>C63</td><td>3/4</td><td>120</td><td>WEST LIMIT SWITCHES JUNCTION BOX</td><td>WEST FULLY SEATED LIMIT SWITCH</td><td></td><td>12</td><td>302, 302A, 1SP</td><td></td><td></td><td></td></th<>	C63	3/4	120	WEST LIMIT SWITCHES JUNCTION BOX	WEST FULLY SEATED LIMIT SWITCH		12	302, 302A, 1SP			
isola 13/2 12/2 13/2	C64	2 1/2	120	WEST SUBMARINE CABLE JUNCTION BOX	WEST GATES JUNTION BOX (CONTROLS)		12	027, 027A, 922, 1122, N1, 101, 102, 102A, 104, 108, 107A, 100 926B, 926C, 928A, 928B, 926, 926A, 928, 1126B, 1126F, 112 1128, 025, 035B, 036B, 037A, 105P	3A, 110, 031, 4N, 406, BA, 1128E, 1126, 1126A,		
cite 10 1	C65	1 1/2	120	WEST GATES JUNTION BOX (CONTROLS)		1 22	12	GND 027, 027A, 922, N1, 101, 102, 102A, 104, 031, 4N, 926B, 924 926A, 928, 55P	ł		
ανακητικού του	C66	3/4	120	NORTHWEST OFF GOING		4	12	926, 926A, 928, 1SP			
cale 1/4					SOUTHWEST ON	23	12	GND 027, 027A, 1122, N1, 406, 108, 107A, 108A, 110, 031, 4N, 1 1128E, 1126, 1126A, 1128, 55P	126B, 1126F, 1128A,		
no. 1/4 1/2 <td>C68</td> <td>3/4</td> <td>120</td> <td>SOUTHWEST ON</td> <td></td> <td>4</td> <td>12</td> <td>GND 1125, 1126A, 1128, 15P</td> <td></td> <td></td> <td></td>	C68	3/4	120	SOUTHWEST ON		4	12	GND 1125, 1126A, 1128, 15P			
CPU M4 120 WEST TRAFFIC SIGNALS JUNCTION BOX WEST ADVANCED WARKING SIGNAL 1 12 CDA CR0 CR0 CR0 <thcr0< th=""> <thcr0< th=""> <thcr0< t<="" td=""><td></td><td></td><td>120</td><td></td><td>1025741044v</td><td>6</td><td>12</td><td>025, 0358, 0368, 037A, 4N, 15P</td><td></td><td></td><td></td></thcr0<></thcr0<></thcr0<>			120		1025741044v	6	12	025, 0358, 0368, 037A, 4N, 15P			
CTI 3/4 120 VEST TRAFFIC SIGNALS JUNCTION BOX WEST TRAFFIC SIGNALS 5 12 035, 035, 035, 037, 037, 037, 037, 037, 037, 037, 037	C70	3/4	120	WEST TRAFFIC SIGNALS JUNCTION BOX	and the second se	3	12	025, 4N, 1SP			
C2 1 200C 120 DRIVE PAREL NORTHAST MAIN MOTOR 1 22 1 453, 4 3F (MAC) RECORP CABLE '4' (A - A, B - B, D - C, PWR-, PWR) C73 1 2204C DRIVE PAREL SOUTHAST MAIN MOTOR 1 22 1 453, 4 3F (MAC) RECORP CABLE '4' (A - A, B - B, D - C, PWR-, PWR) C73 1 2204C DRIVE PAREL SOUTHAST MAIN MOTOR 1 22 1 453, 4 3F (MAC) RECORP CABLE '4' (A - A, B - B, D - C, PWR-, PWR) C74 1 2004C DRIVE PAREL SOUTHAST MAIN MOTOR 1 22 1 100 A + 20 + A, B - B, D - C, PWR-, PWR) C74 1 2004C DRIVE PAREL SOUTHAST MAIN MOTOR 1 22 1 100 A + 20 + D, D - C, PWR-, PWR) C74 1 2004C DRIVE PAREL EAST SUBMARINE CABLE JUNCTION BXX 1 22 1 100 A + 20 + D, D - C, PWR-, PWR) C75 1 2004C WEST SUBMARINE CABLE JUNCTION BXX 1 22 1 100 A + 20 + D, D - C, PWR-, PWR) 1 2004C WEST SUBMARINE CABLE JUNCTION BXX NORTHWEST MAIN MOTOR 1 22 1 100 A + 20 + D, D - C, PWR-, PWR)	C71	3/4	120	WEST TRAFFIC SIGNALS JUNCTION BOX		5		035B, 036B, 037A, 4N, 1SP			
C73 1 20/0C DRIVE PAREL SOUTHEAST MAIN MOTOR 1 22 87. 437 (MOTOR ENCODER CABE "/ (A, A, B, B, b, 2, 2, NWE, NWE)) C74 1 22/0C DRIVE PAREL SOUTHEAST MAIN MOTOR 1 22 87. 437 (MOTOR ENCODER CABE "/ (A, A, B, B, b, 2, 2, NWE, NWE)) C74 1 22/0C DRIVE PAREL EAST SUBMARINE CABLE JUNCTION BOX 1 22 82.0 4 37 MOTOR ENCODER CABE "/ (A, A, B, B, b, 2, 2, NWE, NWE)) C74 1 20/0C DRIVE PAREL EAST SUBMARINE CABLE JUNCTION BOX 1 22 82.0 4 37 MOTOR ENCODER CABE "/ (A, A, B, B, b, 2, 2, NWE, NWE)) C75 1 20/0C DRIVE PAREL EAST SUBMARINE CABLE JUNCTION BOX NORTHWEST MAIN MOTOR 1 22 83.5 4 37 MOTOR ENCODER CABLE "MA, A, B, B, b, 2, 2, NWE, PWE) C75 1 20/0C WEST SUBMARINE CABLE JUNCTION BOX NORTHWEST MAIN MOTOR 1 22 83.5 4 37 MOTOR ENCODER CABLE "MA, A, B, B, b, 2, 2, NWE, PWE) NWE C76 1 20/0C WEST SUBMARINE CABLE JUNCTION BOX SOUTHWEST MAIN MOTOR 1 22 63.5 4 37 MOTOR ENCODER CABLE "MA, A, B, B, 2, 2, NWE, PWE) NWE C77 1 20/0C MEET SUBMARINE CABLE JUNCTION BOX<	C72	1		DRIVE PANEL	NORTHEAST MAIN MOTOR	1 1 3	22 22 12	835, 4 STP (MOTOR ENCODER CABLE "A" (A+, A-, B+, B-, Z+, Z-, 840, 4 STP (MOTOR ENCODER CABLE "B" (A+, A-, B+, B-, Z+, Z-, 14, 8344, SSP	PWR+, PWR-) PWR+, PWR-)		
C74 1 24 VDC DRIVE PANEL EAST SUBMARINE CABLE JUNCTION BOX 1 22 1 22 22 23 853 + 457 MOTOR ENCODER CABLE "Y(A, A, B, B, C - Z, PWR, PWR) 100/CC 120/CC 24/UC 24/UC 853 + 457 MOTOR ENCODER CABLE "Y(A, A, B, B, Z - Z, PWR, PWR) 11 222 853 + 457 MOTOR ENCODER CABLE "Y(A, A, B, B, Z - Z, PWR, PWR) 82/L 4 57 MOTOR ENCODER CABLE "Y(A, A, B, B, Z - Z, PWR, PWR) 12 24/UC 853 + 457 MOTOR ENCODER CABLE "Y(A, A, B, B, Z - Z, PWR, PWR) 1 12/2 11 120 655 + 457 MOTOR ENCODER CABLE "Y(A, A, B, B, Z - Z, PWR, PWR) 1 1 1 12 24/UC WEST SUBMARINE CABLE JUNCTION BOX NORTHWEST MAIN MOTOR 1 22/L ENCODER CABLE "Y(A, A, B - B, Z - Z, PWR, PWR) 1<	C73	1		DRIVE PANEL	SOUTHEAST MAIN MOTOR	1	22 22 12	875, 4 STP (MOTOR ENCODER CABLE "A" (A+, A-, B+, B-, Z+, Z-, 880, 4 STP (MOTOR ENCODER CABLE "B" (A+, A-, B+, B-, Z+, Z-, L1, 874A, ISP	PWR+, PWR-) PWR+, PWR-)		
C75 1 24VDC 120VAC WEST SUBMARINE CABLE JUNCTION BOX NORTHWEST MAIN MOTOR 1 22 13 32 - 35 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 120 - SSD = 55 PM OTOR ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR, - PWR.) 121 - CONDITIONE ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR., - PWR.) 121 - CONDITION ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR., - PWR.) 121 - CONDITION ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR., - PWR.) 121 - CONDITION ENCODER CABLE "4"(A, A, B, - B, - Z, - Z, - PWR.) - ENCODE	C74	1	120VAC	DRIVE PANEL	EAST SUBMARINE CABLE JUNCTION BOX	1 1 1 3 1	22 22 22	815 = 4 STP MOTOR ENCODER CABLE "A"(A+, A-, B+, B-, Z+, Z, P 820 = 4 STP MOTOR ENCODER CABLE "B"(A+, A-, B+, B-, Z+, Z, P 855 = 4 STP MOTOR ENCODER CABLE "B"(A+, A-, B+, B-, Z+, Z, P 860 = 4 STP MOTOR ENCODER CABLE "B"(A+, A-, B+, B-, Z+, Z, P 11. 814A, 854A, 15P	WR+, PWR-) WR+, PWR-1		
C76 1 24VOC 120VAC WEST SUBMARINE CABLE JUNCTION BOX SOUTHWEST MAIN MOTOR 1 22 1 23 1 22 1 25 5 4 STP MOTOR ENCODER CABLE TATAs, As, Br., Br., Zr., Zr, PWRr, PWR-) LI, BSAA, 15P C77 1 120VAC DRIVE PANEL DYNAMIC BRAKING RESISTORS 6 112 12 CRN CRN SouthWest Main Motor 1 12 12 CRN SouthWest Main Stan, Stan	C75	1		WEST SUBMARINE CABLE JUNCTION BOX	NORTHWEST MAIN MOTOR	1 1 3 1	22	815 = 4 STP MOTOR ENCODER CABLE "A"(A+, A-, B+, B-, Z+, Z-, P 820 = 4 STP MOTOR ENCODER CABLE "B"(A+, A-, B+, B-, Z+, Z-, P L1, 814A, 1SP	WR+, PWR-) WR+, PWR-)		
C77 1 120V/C DRIVE PANEL DYNAMIC BRAKING RESISTORS 6 12 11, 81AA, 83AA, 85AA, 87AA, 15P C78 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 1 12 OSS, N, 15P C79 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 1 12 OSS, N, 15P C80 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 1 12 OSS, N, 15P C81 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 3 12 O4A, N, 15P C81 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 3 12 O4A, N, 15P C81 3/4 120V/C SURGE SUPRESSOR PANEL EAST PIER LIGHTS 3 12 O4A, N, 15P C82 3/4 120V/C SURGE SUPRESSOR PANEL AIR HORN 3 12 O4A, N, 15P C83 3/4 120V/C SURGE SUPRESSOR PANEL AIR HORN 3 12 O4A, 043, N, 15P C83 3/4 120V/C SURGE SUPRESSOR PANEL AIR HORN <t< td=""><td>C76</td><td>1</td><td>1</td><td>WEST SUBMARINE CABLE JUNCTION BOX</td><td>SOUTHWEST MAIN MOTOR</td><td>1</td><td>22 22 12</td><td>860 = 4 STP MOTOR ENCODER CABLE "8"(A+, A-, B+ , B-, Z+ , Z-, P L1, 854A, 1SP</td><td>WR+, PWR-) WR+, PWR-)</td><td></td><td></td></t<>	C76	1	1	WEST SUBMARINE CABLE JUNCTION BOX	SOUTHWEST MAIN MOTOR	1	22 22 12	860 = 4 STP MOTOR ENCODER CABLE "8"(A+, A-, B+ , B-, Z+ , Z-, P L1, 854A, 1SP	WR+, PWR-) WR+, PWR-)		
C78 3/4 120vAc SURGE SUPRESSOR PAREL EAST PIER LIGHTS 3 12 C05, 5N, 15P C79 3/4 120vAc WEST SUBMARINE CABLE JUNCTION BOX WEST FIER LIGHTS 3 12 C05, 5N, 15P C30 3/4 120vAc SURGE SUPRESSOR PAREL EAST FIER LIGHTS 3 12 C05, 5N, 15P C30 3/4 120vAc SURGE SUPRESSOR PAREL EAST FIER LIGHTS 3 12 C04, 5N, 15P C31 3/4 120vAc SURGE SUPRESSOR PAREL EAST FLOOD LIGHTS 3 12 C04, 5N, 15P Conv Conv C32 3/4 120vAc SURGE SUPRESSOR PAREL AIR HORN 3 12 C04, 5N, 15P Conv C33 3/4 120vAc SURGE SUPRESSOR PAREL AIR HORN 3 12 C04, 5N, 15P Conv C33 3/4 120vAc CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 C04, 5N, 15P Conv SURGE COUNTY REHABILITATION OF SOTH ELECTRIC SENSOR REHABILITATION OF SOTH ELECTRIC SENSOR REHABILITATION OF SOTH ELECTRIC SENSOR REHABILITATION OF SOTH ELECTRIC SENSOR SURE SURC	C77	1	120VAC	DRIVE PANEL	DYNAMIC BRAKING RESISTORS	6 1		L1, 814A, 834A, 854A , 874A, 15P			
C79 3/4 120VAC WEST SUBMARINE CABLE JUNCTION BOX WEST FIER LIGHTS 3 12 C05, 5N, S5P C80 3/4 120VAC SURGE SUPRESSOR PAREL EAST FLOOD LIGHTS 3 12 CMA, SN, ISP C81 3/4 120VAC SURGE SUPRESSOR PAREL EAST FLOOD LIGHTS 3 12 CMA, SN, ISP C82 3/4 120VAC SURGE SUPRESSOR PAREL AIR HORN 3 12 CMA, SN, ISP C83 3/4 120VAC SURGE SUPRESSOR PAREL AIR HORN 3 12 CMA, D28, SN, ISP	C78	3/4	120VAC	SURGE SUPRESSOR PANEL	EAST PIER LIGHTS	3 1		055, 5N, 1SP			
CB0 3/4 120VAC SURGE SUPRESSOR PAREL EAST FLOOD LIGHTS 3 12 CMAIL SN, 15P C31 3/4 120VAC WEST SUBMARINE CABLE JUNCTION BOX WEST FLOOD LIGHTS 3 12 CMAIL SN, 15P C32 3/4 120VAC SURGE SUPRESSOR PAREL AIR HORN 3 12 CMAIL SN, 15P C33 3/4 120VAC SURGE SUPRESSOR PAREL AIR HORN 3 12 CMAIL SN, 15P C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 CMAIL SN, 15P SN SN SP C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 CMAIL SN, 15P SN SN SP C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 CMAIL SN, 15P SN SN SP C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 CMAIL SN SN SP SN S	C79	3/4	120VAC	WEST SUBMARINE CABLE JUNCTION BOX	WEST PIER LIGHTS	3 1		GND			
C42 3/4 120VAC SURGE SUPRESSOR PAREL AIR HORN 3 12 000 pm (5 N), 15 P C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 042A, 042B, 5N, 15 P C33 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 042A, 042B, 5N, 15 P CALL CONTROL DESK PHOTO-ELECTRIC SENSOR 4 12 042A, 042B, 5N, 15 P CALL	C80	3/4	120VAC	SURGE SUPRESSOR PANEL	EAST FLOOD LIGHTS	3 1	12 12	GND			
CG3 3/4 120VAC CONTROL DESK PHOTO-ELECTRIC SENSOR 1 12 GND PREPARED BY: WEP USA ME. 2000 LEVOL DIMME, LAMRENCEVILLE M.J. 8844 Image: Control desk Image: Con	C81	3/4	120VAC	WEST SUBMARINE CABLE JUNCTION BOX	WEST FLOOD LIGHTS	1		GND			
Image: Second Column					AIR HORN	1		GND			
2000 LENCK CAME, LANDELE N.L. 2004 Image: Comparison of the mail of the	C83	3/4	120VAC	CONTROL DESK	PHOTO-ELECTRIC SENSOR	4		042A, 042B, SN, 1SP GND			
AM JP BC CHANNEL CONDITIAND CABLE				PREPARED BY	WSP USA hr. 2003 LENOX DRIVE, LAWRENCEVILLE, N.J. 08548	11	S)	CAPE MAY COUNTY	REHABILITATION OF 96TH STREET (CR657)	STONE HARBOR BOROUCH AND MIDDLE TOWNSHIP CAPE MAY COUNTY, NEW JERSEY DRAWING TITLE:	4/9/; SCALE; N
Kevin Walsh N. # EUDER WINDER DATE Despinal by Drawn by Chadwelly STR, NO, 0500-006 SCHEDULE 4 SHEET								AM JP BC	CHANNEL	CONDUIT AND CABLE SCHEDULE 4	SHEET REFEREN

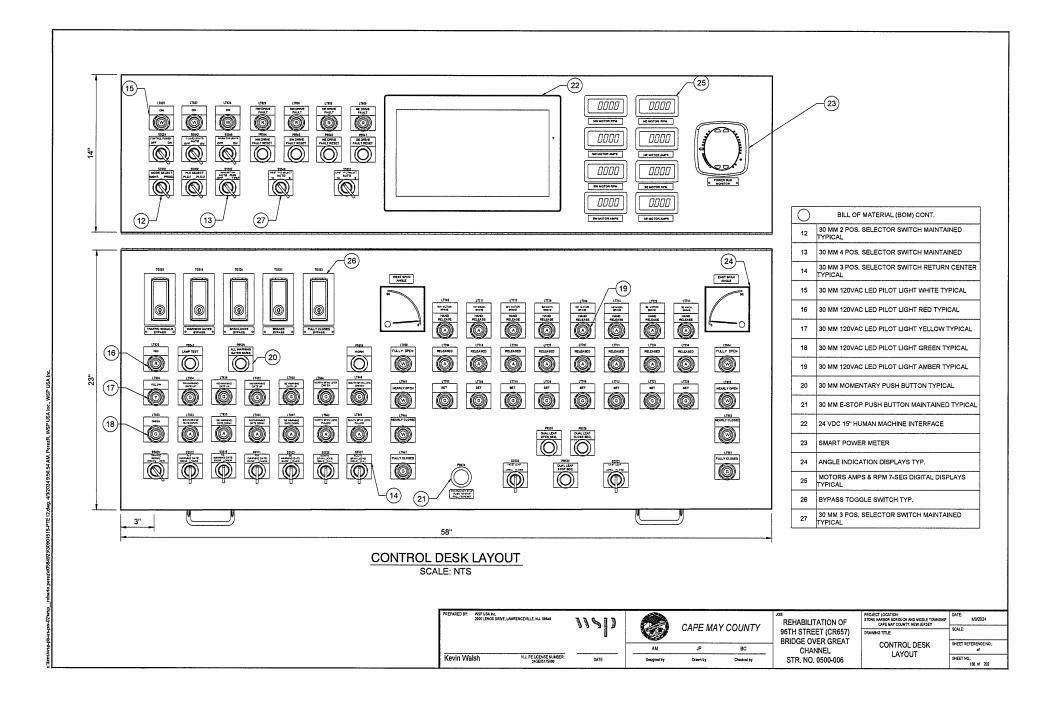


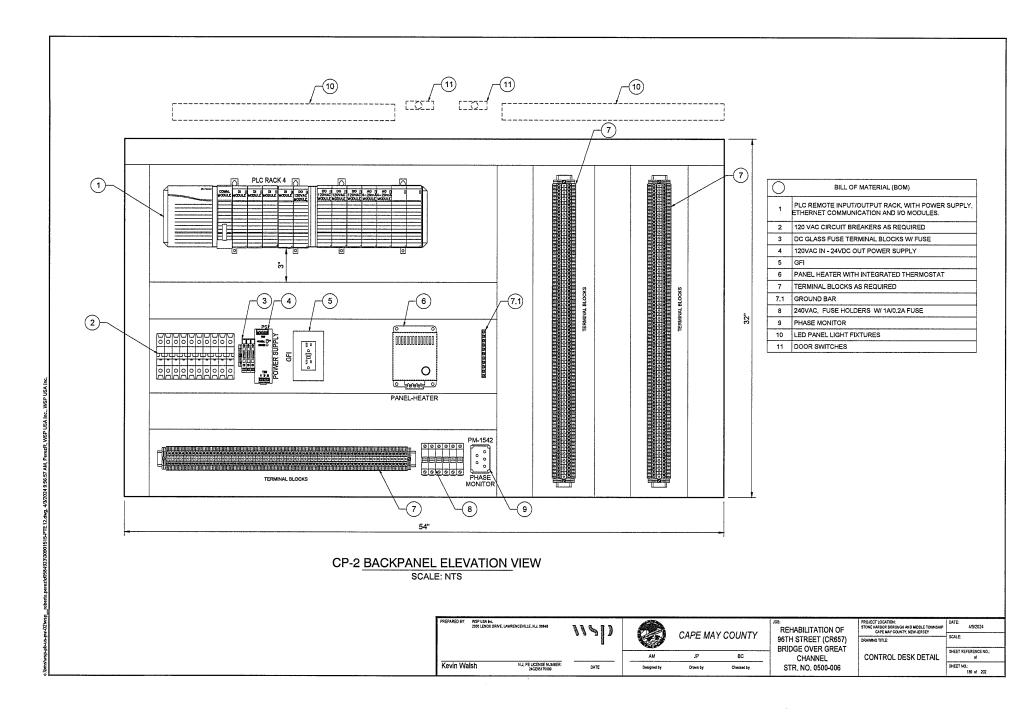


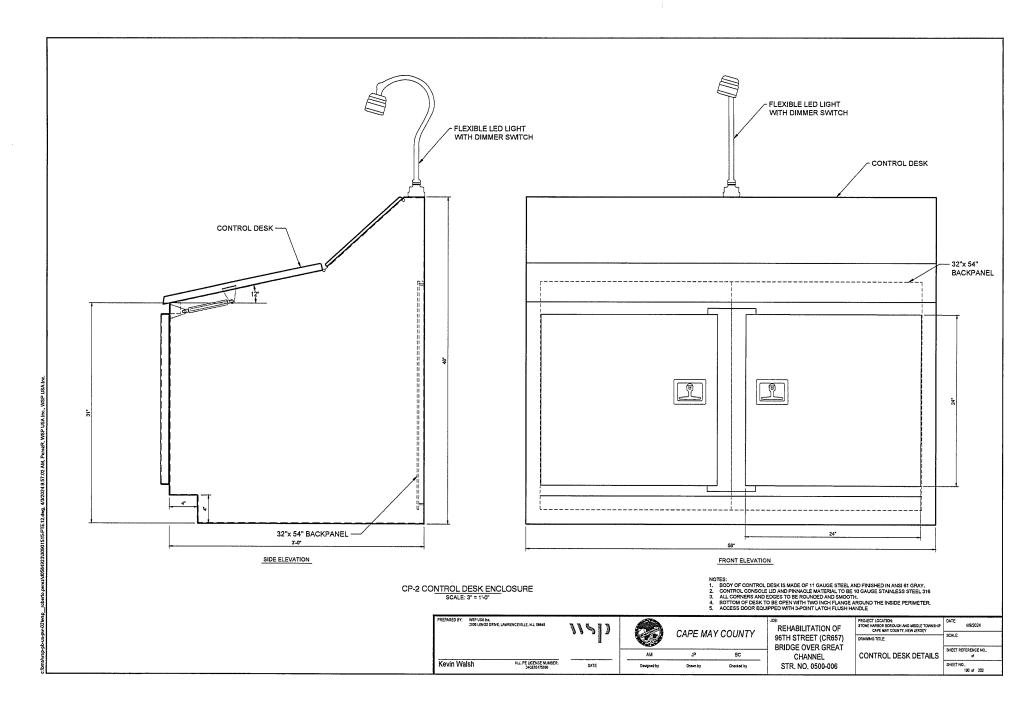


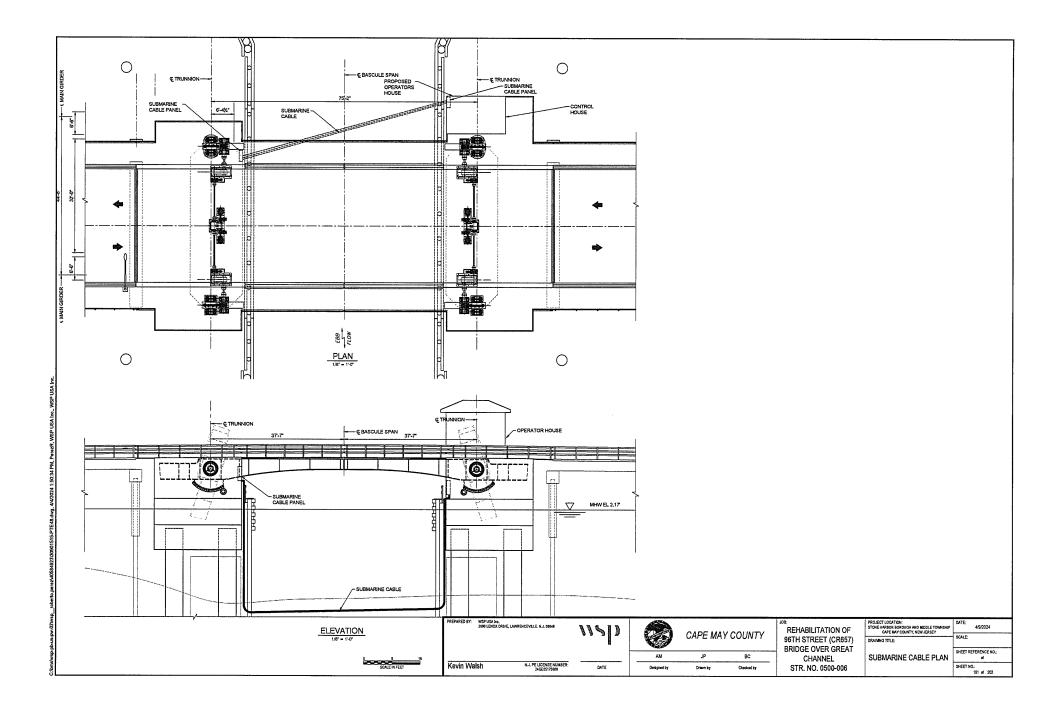


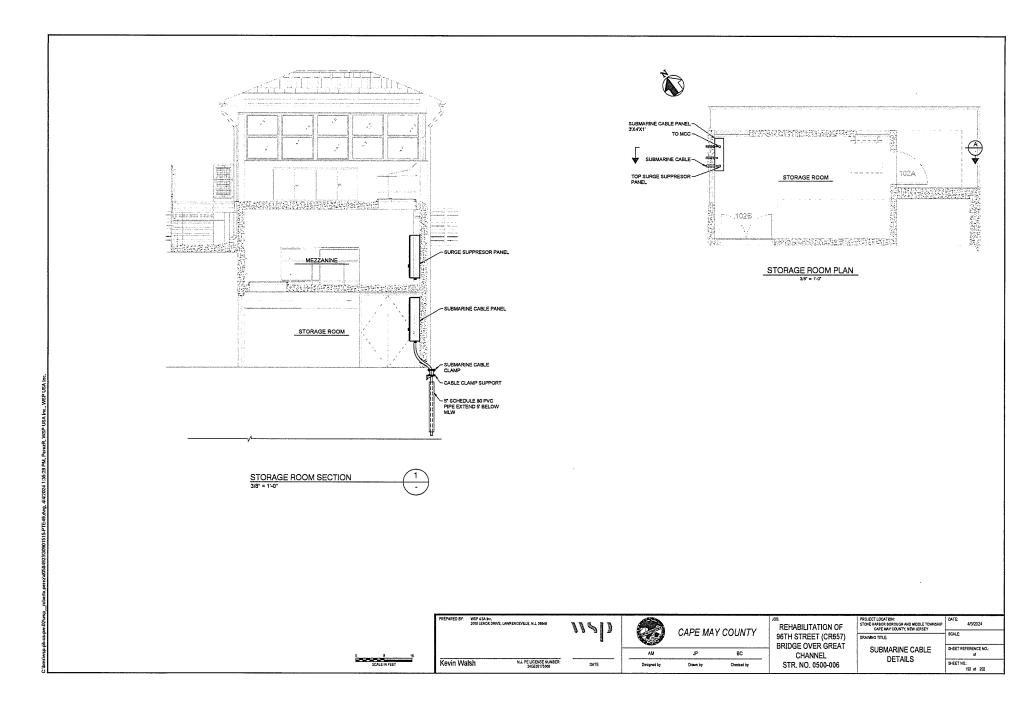


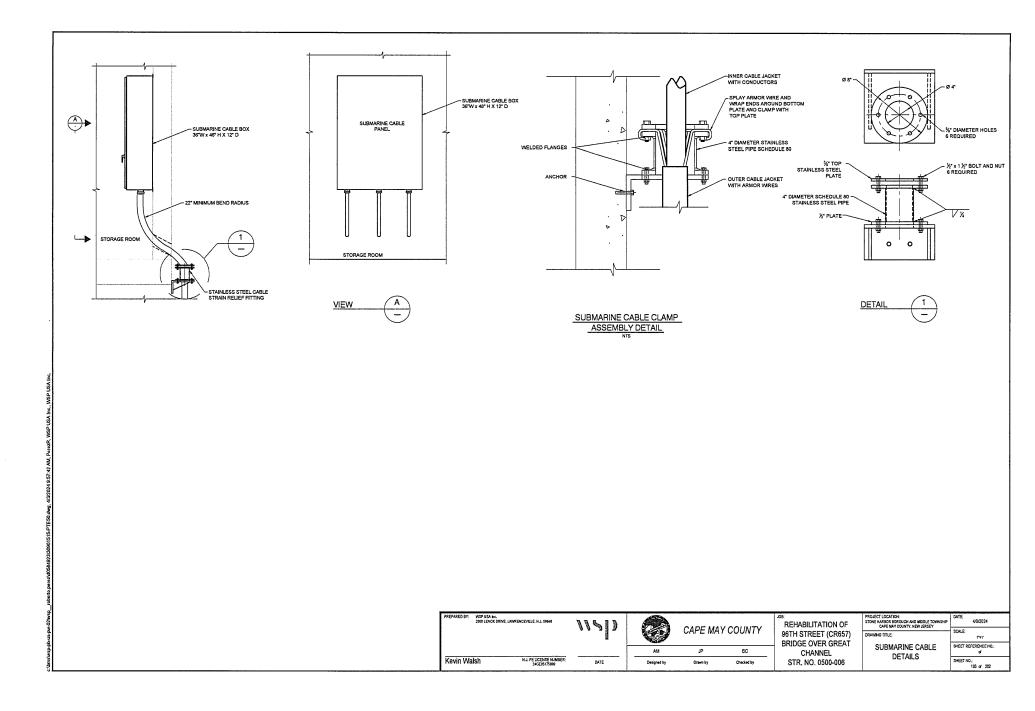


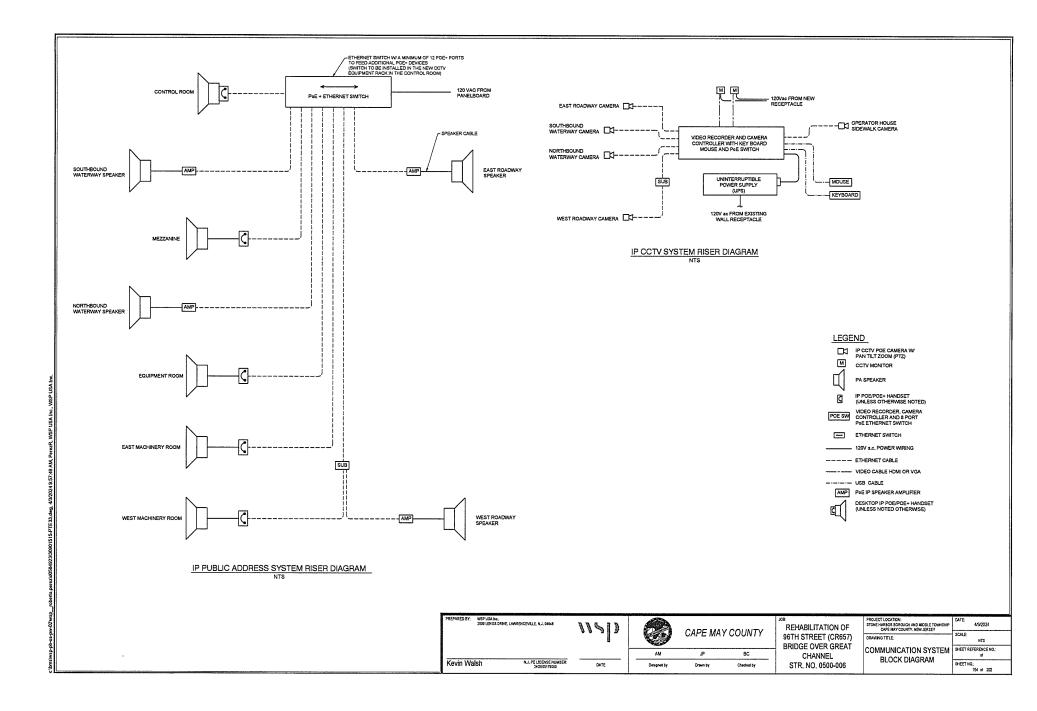


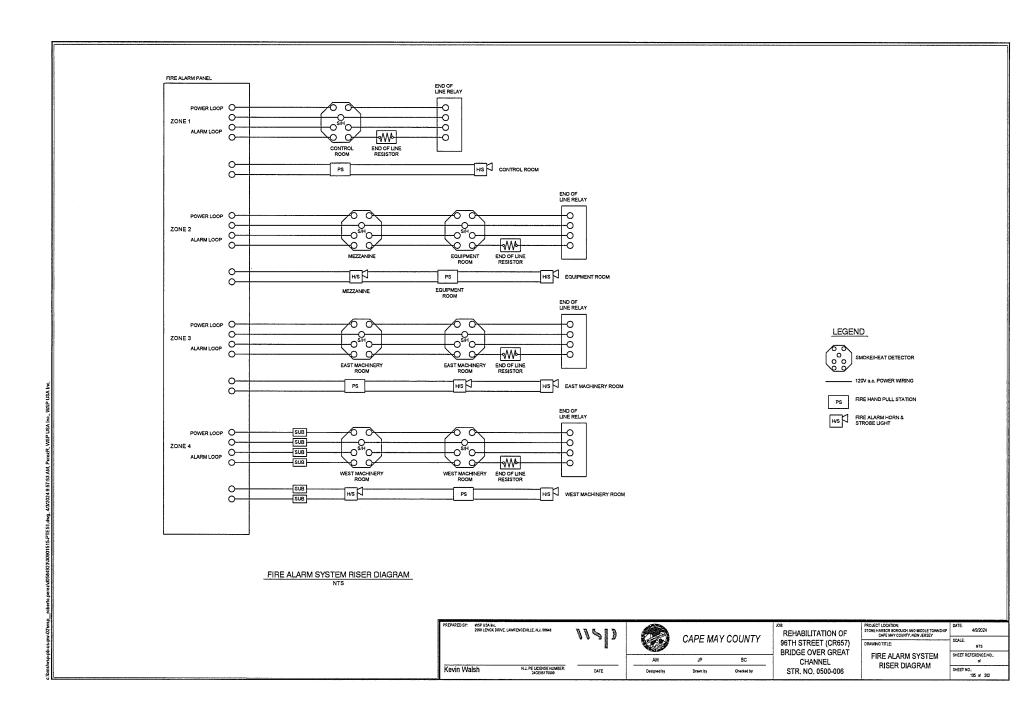








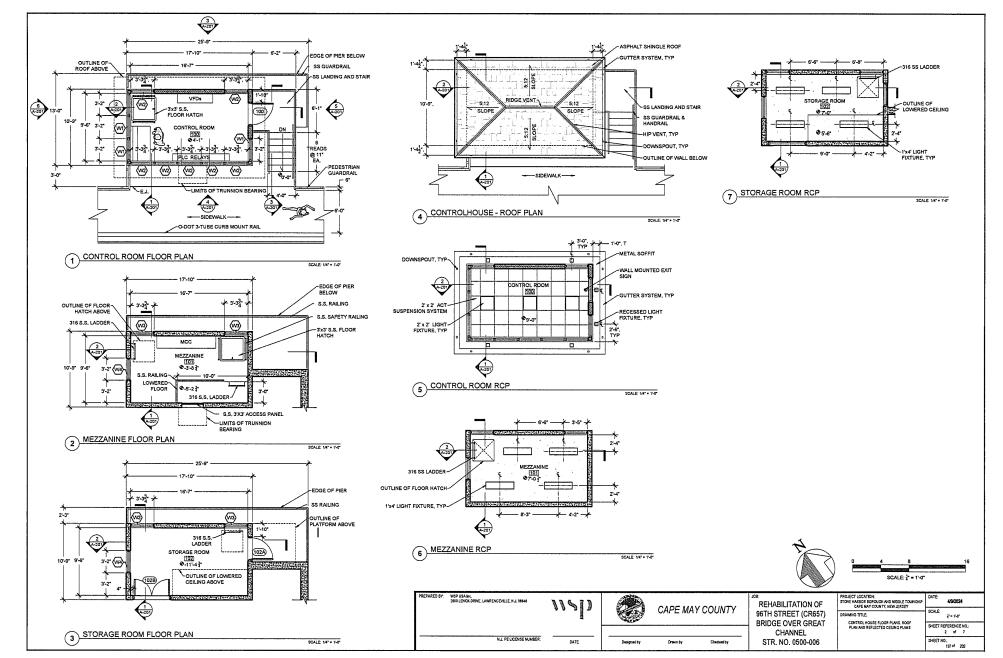


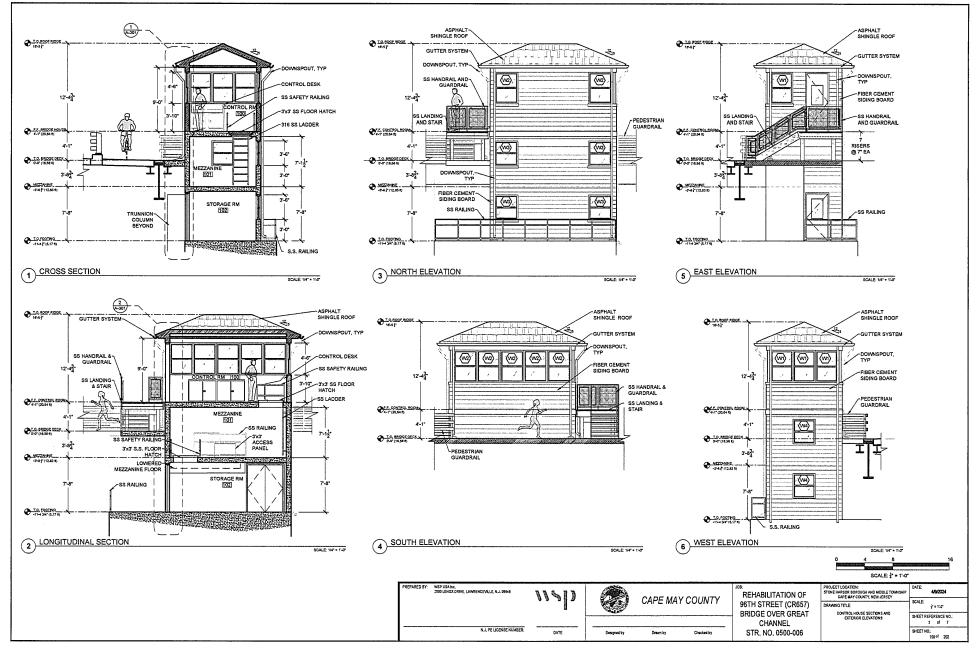


GENERAL NOTES	ABBREVIATIONS	SYMBOLS	MATERIALS LEGEND				IATION
1. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN STRICT CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE AND	ALUM. ALUMINUM NO. NUMBER A.F.F. ABOVE FINISH FLOOR N.T.S. NOT TO SCALE			PROJECT NAME:		CODE INFORM (CR657)BRIDGE OVER GR	
THE NEW JERSEY STATE UNFORM CONSTRUCTION CODE AND INTERNATIONAL BUILDING CODE OF NEW JERSEY AND ALL ITS SUB CODES, OSHA AND ADA REQUIREMENTS AND ANY OTHER LOCAL, REGIONAL, OR FEDERAL, REGULATIONS,	ALT. ALTERNATE APPROX. APPROXIMATE O.A. OVERALL ARCH. ARCHITECT O.A.I. OUTSIDE AIR INTAKE	PARTITON TYPE A WINDOW TYPE	CONCRETE	LOCATION:	MIDDLE TOW	ION NSHIP BOROUGH OF STOP N JERSEY, 08247	
 THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY EXISTING CONDITIONS AND REVIEW THESE CONDITIONS WITH THE PLVIS BEFORE, DURING NOA AFTER CONSTRUCTION, NO ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THE PLVIS AND SPECIFICATIONS SHALL BE REVIOLAT TO THE 	ARCH'L. ARCHITECTURAL O.C. ON CENTER OPNG. OPENING BD. BOARD OPP. OPPOSITE BLDG. BUILDING ORIG. ORIGINAL	DI DEMOLITION KEYNOTES	HEIDTEITE HEIDTEITE HEIDTEITE HEIDTEITE HEIDTEITE HEIDTEITE HARD	CODE (N.J.A.C. 5:2	DE REFERENCE 3 ET SEQ), THE	WILL BE THE NEW JERSEY JNIFORM CONSTRUCTION	CODE ADOPTS SEVERAL
ATTENTION OF THE ARCHITECT IN WRITING IMMEDIATELY.	BOT. BOTTOM O.H. OVERHEAD O.D. OVERFLOW DRAIN C.J. CONTROL JOINT CLG. CEILING PART PARTITION			MODEL CODES TH	AT ARE REFERE	NCED AS SUBCODES. THI CONSTRUCTION CODE AN	ESE SUBCODES ARE AN ID ARE AS FOLLOWS:
3. ALL WALL THICKNESS ARE NOMINAL DIMENSIONS ONLY ROUNDED TO THE NEAREST WHOLE INCH, REFER TO WALL SECTIONS AND DETAILS FOR THEIR ACTUAL THICKNESS.	CU CONDENSING UNIT PTN. PARTITION CLO. CLOSET PLAS. PLASTIC		STEEL		NATIONAL MO	DDEL CODE	UCC REFERENCE
 ALL DIMENSIONS ARE FROM THE FACE OF METAL STUD, FACE OF GYPSUM BOARD BOARD UNLESS OTHERWISE NOTED. 	COL. COLUMN PL. LAM. PLASTIC LAMINATE C.M.U. CONCRETE MASONRY PL. PLATE UNIT PLYWD. PLYWOOD		PLYWOOD	ACCESSIBILITY	ANSI-A117,1	2017-EXEMPT-SECTION	N.J.A.C. 5:23-3.14
5. EXCEPT WHERE OTHERWISE INDICATED, ALL WALLS AND PARTITION ARE DIMENSIONED TO THEIR "NOMINAL" SIZES. WHERE DIMENSIONS	CONC. CONCRETE PANL PANEL CONST. CONSTRUCTION PR. PAIR CONT. CONTINUOUS PTD, PAINTED	Drawing Title		PLUMBING	1103.2.2 NATIONAL ST 2021	ANDARD PLUMBING CODE	
ARE NOTED AS THIN.", PROVIDE MIN. CLEAR TO FINISH SURFACES. 6. SEFORE COMMENCING WORK, THE CONTRACTOR SHALL PROPERLY IDENTIFY AND MARK-UP ALL EXISTING UTILITIES.	DET. DETAIL P.V.C. POLYVINYL CHLORIDE DIA. DIAMETER P.S.I. POUNDS PER SQUARE	Sheet No		ELECTRICAL		ECTRICAL CODE (NFPA70)	N.J.A.C 5:23-3.16
7. DO NOT SCALE DRAWINGS.	DIM. DIMENSION P.S.F. POUNDS PER SQUARE DN. DOWN FOOT DR. DOOR	Drawing Scale	SHIM	ENERGY	ASHRAE 90.1	-2019	N.J.A.C. 5:23-3.18
 MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER EXECUTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE 	DWG, DRAWING R. RISER RAD. RADIUS EA. EACH RB RUBBER BASE		GYPSUM BOARD	MECHANICAL	a lange ta get finde	IAL MECHANICAL CODE 20	the contract of the second second
DRAWINGS. 9. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS. SYMBOLS AND LEGENDS. ALL NOTES ARE TO BE REVIEWED AND	ELEC. ELECTRIC RCP REFLECTED CEILING PLAN ELECTL ELECTRICAL R.D. ROOF DRAIN ENCL. ENCLOSURE RE. REFERENCE EL. ELEVATION REF. REFERENCE	A BUILDING SECTION	GRAVEL / POROUS FILL	GEN	onule Wenterstein I		
APPLIED TO RELATED BUILDING COMPONENTS. 10. WHERE PIPING IS TO BE CONCEALED, THE HUNG OR FURRED CEILING IN THIS AREAS ARE NOT TO BE INSTALLED UNTIL THOSE PIPES HAVE BEEN PROFERLY TESTED.	EQUIP, EQUIPMENT REQUIP. EQ. EQUAL REQ'D, REQUIRED EXIST. EXISTING REINF, REINFORCING REV. REVISION	BULLING SECILON		USE AND OCCUPANCY	BUSINESS B	RITERION / DESIGNATION	PREFERENC SECTION 304
PPES HAVE BEEN PROPERLY TESTED. 11. ALL STRUCTURAL STEEL LESS THAN & FROM EXTERIOR SHALL BE PROPERLY WATERPROOFED.	E.T.R. EXISTING TO REMAIN RM. ROOM EXP. EXPANSION R.O. ROUGH OPENING EXT. EXTERIOR R.O.D. ROOF OVERFLOW DRAI E.J. EXPANSION JOINT			OCCUPANCY	80314233 8	NON-SEPARATED	SECTION 504,3
12 EXCEPT AS OTHERMOSE INDICATED, DOOR SADDLES OR DIVIDING STRIPS ARE REGULIRED AT INTERIOR DOOR OPENINGS WHERE DIFFERENT TYPES OF FLOOR FINISHES OCCUR IN IMMEDIATELY ADJOINING ROOMS, POSITION ON LINE OF CENTER DOOR WHEN	F.D. FLOOR DRAIN SECT. SECTION F.E. FREIGHT ELEVATOR SHO. SHOWER	PLAN DETAIL OR SECTION DETAIL		CONSTRUCTION CLASSIFICATION		118 (28)	TABLE 601
DOOR IS CLOSED.	FID. FOUNDATION SIM. SHORER FDN. FOUNDATION SIM. SIMILAR FIN. FINISH SK SKETCH FL. FLOOR SPECS, SPECIFICATIONS	FOR DEAL OR SECTION DEAL		FIRE SUPPRESSION		NO	TABLE 903.2.13
13. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINTELS, STRUTS, BRACKETS, HANGERS, ETC, WHEREVER NECESSES ANY TO SUPPORT OR BRACK ALL INNISHES, EOUPMENT RECESSES, HEADS OVER OPENINGS, FURNITURE, ETC.	FLUOR. FLUORESCENT SQ. SQUARE FT. FOOT / FEET S/STL. STAINLESS STEEL FTG. FOOTING STL. STEEL					UILDING HEIGHTS & CLASSIFICATION T	
14. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND ELECTRICAL CONDUITS PRIOR TO STARTING ANY EXCAVATION OPERATIONS. SHOULD ANY CONDUITS	STD. STANDARD GA. GAUGE STRUCT. STRUCTURE GALV. GALVANIZED STRUCT. STRUCTURAL GL. GLASS SUSP. SUSPENDED			BUILDING AREA	ALLOWABLE	PROPOSED	IBC PREFEREN
BE ENCOUNTERED WHICH WERE NOT KNOWN TO EXIST, THE CONTRACTOR SHALL STOP WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE ARCHITECT,	GL. GLASS SUSP, SUSPENDED GWB GYPSUM WALL BOARD GYP. BO. GYPSUM BOARD T/ TOP OF T.O. TOP OF			CONTROL ROOM	23,000 S.F.	192. S.F.	
15. SWEEPING, BRUSHING, AND OTHER GENERAL, CLEANING OF COMPLETED WORK AND THE REMOVAL OF DEBRIS SUPPLIES MATERIALS. TOOLS NOT IN ACTIVE USE. SCAFFOLING AND OTHER EGUIPMENT NO LONGER INCEEDED SHALL BE CARRIED OUT ON AN ONGOING BASIS. IN ADDITION, REMOVE STAINS, SPOTS, MARKS, AND DITF ROM PINISH "MORK. THE 40B TO BE MINITANED FREE	HDWR, HARDWARE TEL TELEPHONE HDWD, HARDWOOD TERR, TERRAZZO H.M. HOLLOW METAL TRANS, TRANSFORMER H.P. HIGH POINT TYP, TYPICAL			MEZZANINE EQUIPMENT ROOM	23,000 S.F. 23,000 S.F.	192. S.F. 192 S.F.	508.2
OF RUBBISH. DISPOSE OF ALL RUBBISH IN ACCORDANCE WITH LOCAL ORDINANCES.	HT. HEIGHT TBD. TO BE DETERMINED H.V.A.C. HEATING, VENTILATION, & AIR CONDITIONING U.L. UNDERWRITER'S LARDRATORY			TOTAL	46.000 S.F.	PROPOSED AREA OF BUILDING	576 S F
 ALL HEIGHTS INDICATED ON REFLECTED CEILING PLANS ARE FROM TOP OF FINISHED FLOOR TO BOTTOM OF CEILING / FIXTURE SPECIFIED, U.O.N., THE CONTRACTOR SHALL FURNISH & INSTALL ALL CLIPS, ANGLES 	HORIZ. HORIZONTAL UNFIN, UNFINSHED HR. HOUR U.O.N. UNLESS OTHERWISE NOTED I.D. INSIDE DIAMETER UTIL. UTILLY						
AND MISC. STEEL TO SECURE FRAMING TO STRUCTURE 18. HINGE SIDE OF DOOR TO BE 4" FROM ADJACENT WALL OR AS OTHERWISE MENTIONED,	IN. INCH / INCHES INCL. INCLUDING V.B. VINYL BASE INFO, INFORMATION V.C.T. VINYL COMPOSITION			NO. OF STORIES	THREE STORIES	TWO STORIES	TABLE 504
OTHERWISE MENTIONED. 19. ALL METAL FLASHING SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.	INSUL. INSULATION TILE INV. INVERT VERT, VERTICAL INV. INVERT VEST. VESTIBULE IT INIT V.I.F. VERIPY IN FIELD			BUILDING HEIGHT	55	A	STUAL 26
20. ALL EXPOSED INTERIOR/EXTERIOR METAL ITEMS TO BE PRIMED AND PAINTED (INCLUDING GALVANIZED METALS) UNLESS OTHERWISE NOTED.	VOL VOLUUE LAM, LAMINATE VTR VENT THRU ROOF	MEANS OF EGRESS FROM BUIL		MANYIMALIMA		E PER OCCUPAN	
	LC. LONG W/ WITH L.P. LOW POINT W.C. WATER CLOSET LT. LIGHT WEIGHT WDW. WINDOW LT. WT. LIGHT WEIGHT W.F. WIDE FLANGE						
	MACH. MACHINE W.O. WINDOW OPENING M.H. MANHOLE W.P. WORKING POINT	OCCUPANT LOAD NO. OF EXIT REQUIR BUSINESS (B) 2 OCC. Actual 1	ED NO. OF EXIT PROVIDED	LC BUSINESS (B)	DCATION	G 150/ GROSS FLR. ARE	ROSS FLOOR
	MAYL MAYEROL MAX. MAXIMUM MECH. MECHANICAL						
	MEMB. MEMBRANE Min. Minimum Misc. Miscellaneous		-				
	MLDG. MOLDING MTD. MOUNTED MTL METAL MFD. METAL FLOOR DECK						
	MDF. MEDIUM DENSITY FIBERBOARD MRD. METAL ROOF DECK MULLI. MULLION	PREPARED BY: WSP USA Inc. 2000 LENOX DRIVE LAWRENCEVILLE. 18		*® REHABIL	ITATION	PROJECT LOCATION: STONE HARBOR BOROUGH AND N	IDDLE 49/2024
	MULL. MULLION N NORTH N.I.C. NOT IN CONTRACT	N.J. 09948	SS CAPE MAY COUNT		STREET	STONE HARBOR BOROUGH AND N TOWNSHIP CAPE MAY COUNTY, NEW JERS	EY SCALE N/A
		N.J. PE LICENSE NUMBER:		- OVER C	GREAT	GENERAL NOTES, ABBREVIATIO SYMBOLS, LEGEND AND BUILDIN	SHEET REFERENCE NO.: NS, 1 of 7
		NUL RE LIGENSE NUMBER:	DATE Designed by Drawn by Checked by	STR. NO.		CODE	SHEET NO.: 196 of 202

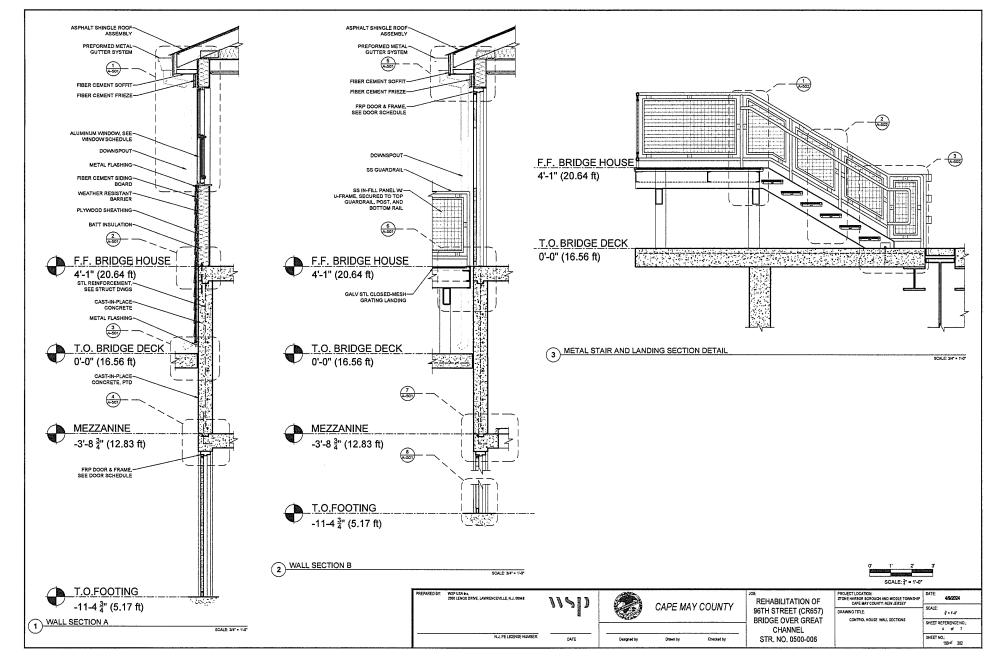
C:Users\USRD671902\OneDrive - WSP O365\Documents\96th St Bridge\30901515-A001.dwg, 3/14/2024 10:28:33 AM, AutoCAD PDF (High Quality Print).pc3



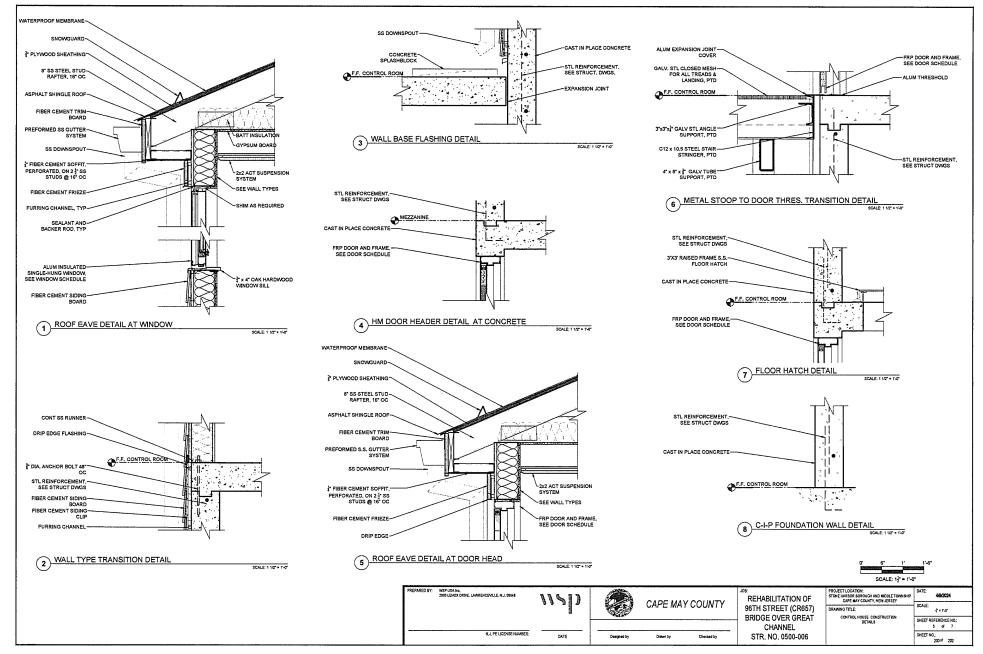




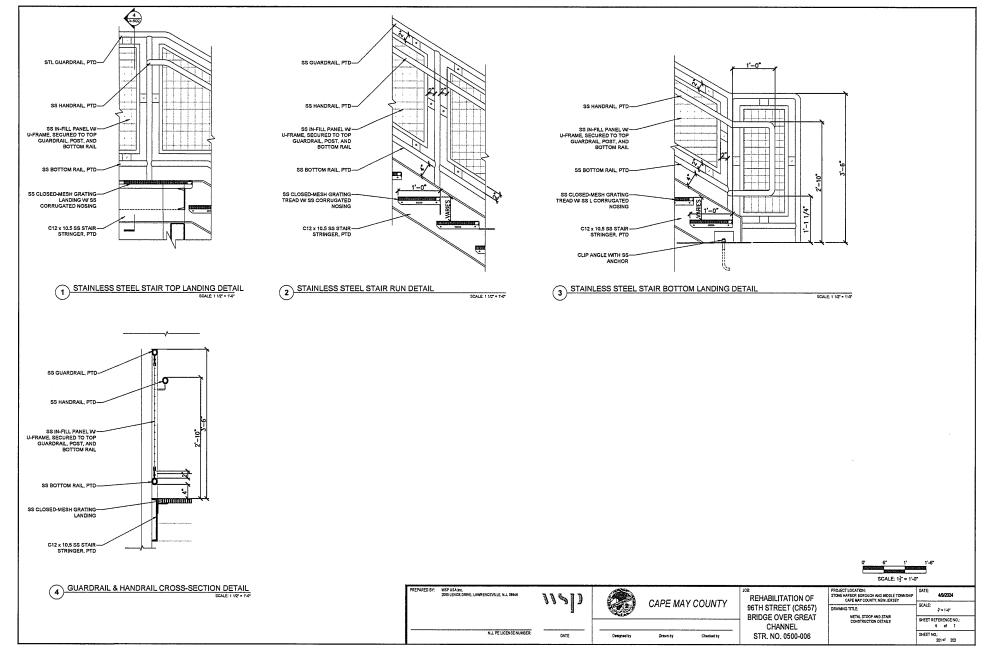
\USLRV100ClF01\Jobs\30901515 - 96th St. Bridge over Great Channel\5.0 Project Data\5.17 Architectural\Working drawings\30901515-A201.dwg, 4/3/2024 2:01:16 PM, AutoCAD PDF (High Quality Print).pc3



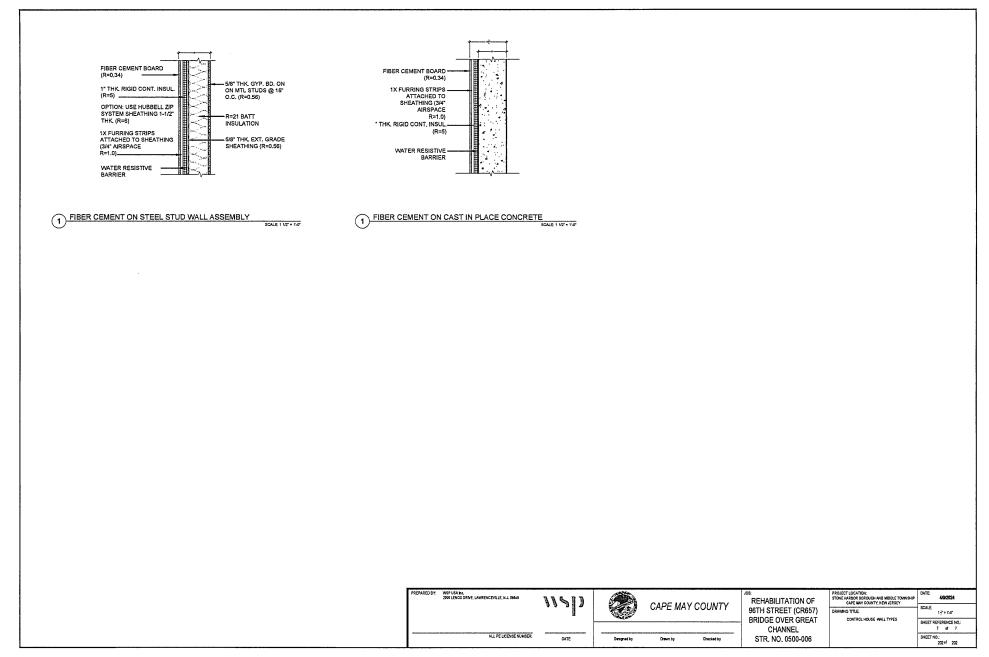
\USLRV100CIF01\Jobs\30901515 - 96th St. Bridge over Great Channel\5.0 Project Data\5.17 Architectural\Working drawings\30901515-A301.dwg, 4/3/2024 2:07:54 PM, AutoCAD PDF (High Quality Print).pc3



\USLRV100ClF01\Jobs\30901515 - 96th St. Bridge over Great Channel\5.0 Project Data\5.17 Architectural\Working drawings\30901515-A501.dwg, 4/3/2024 2:56:13 PM, AutoCAD PDF (High Quality Print).pc3



\USLRV100ClF01\Jobs\30901515 - 96th St. Bridge over Great Channel\5.0 Project Data\5.17 Architectural\Working drawings\30901515-A502.dwg, 4/2/2024 10:20:51 PM, AutoCAD PDF (High Quality Print).pc3



\USLRV100ClF01\Jobs\30901515 - 96th St. Bridge over Great Channel\5.0 Project Data\5.17 Architectural\Working drawings\30901515-A601.dwg, 3/14/2024 9:57:34 AM, AutoCAD PDF (High Quality Print).pc3