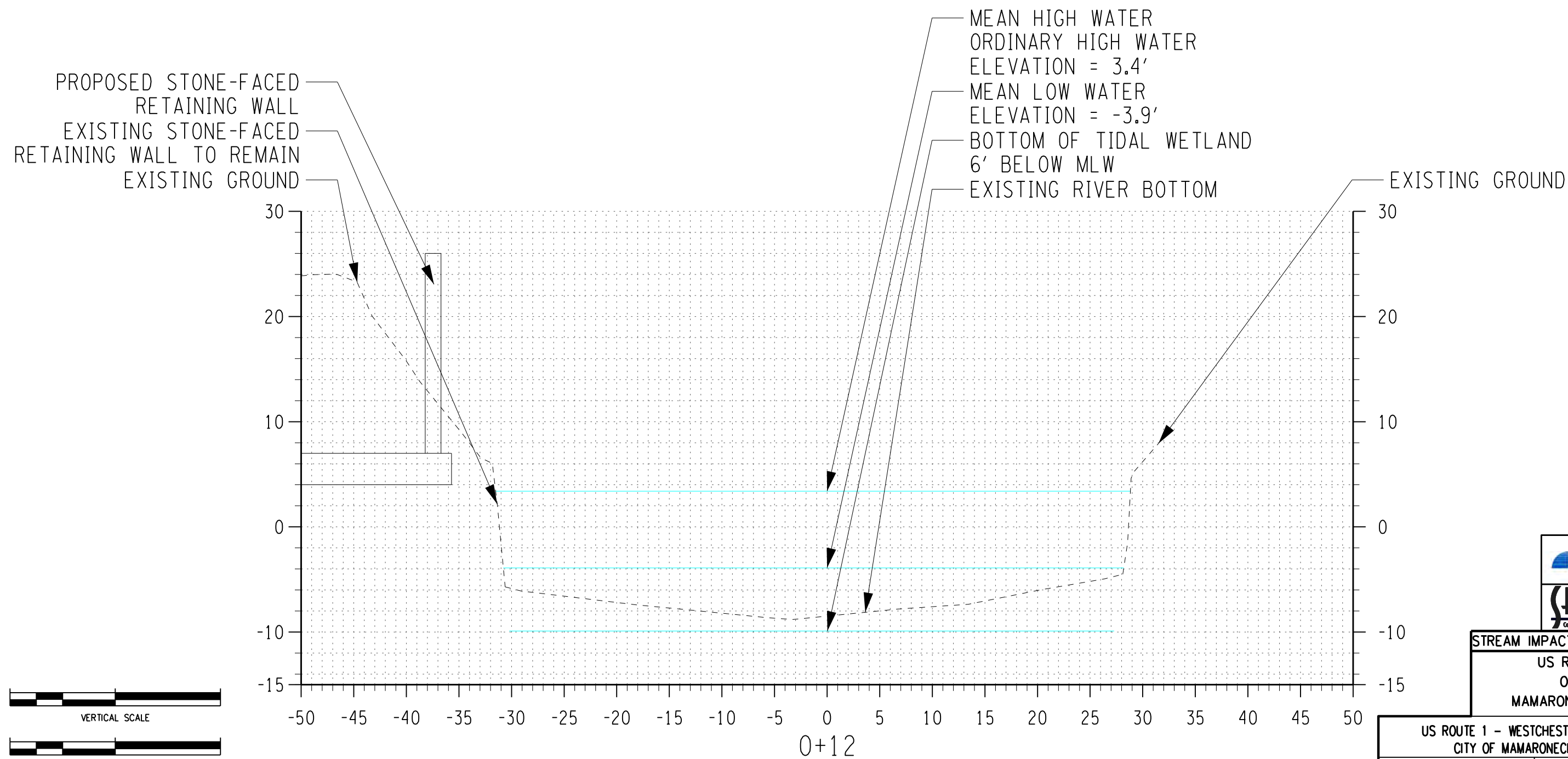


SOUTHWEST STONE-FACED RETAINING WALL CROSS SECTION

P.I.N.
CONTRACT NO.
ALIGNMENT:



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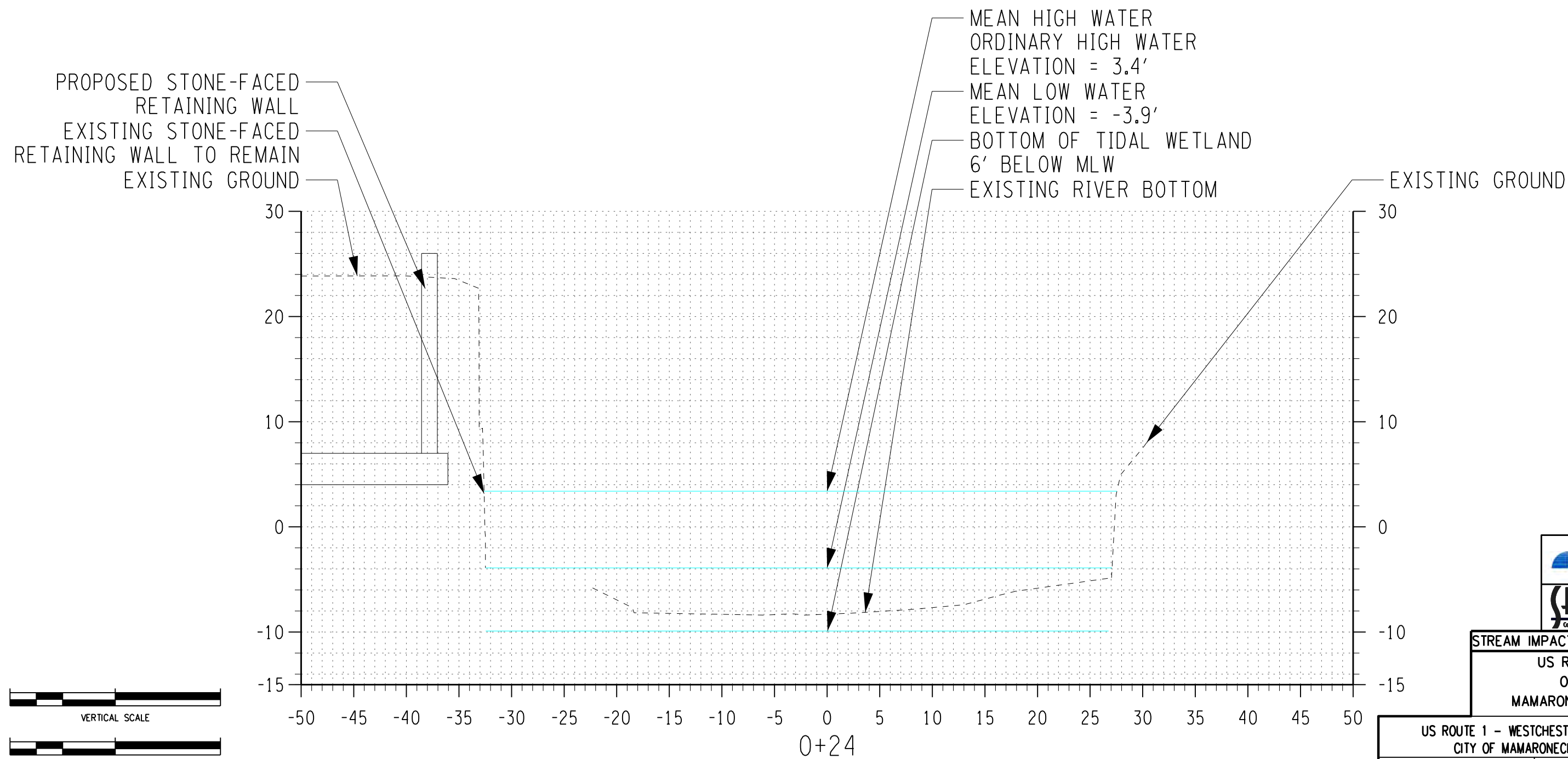


STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

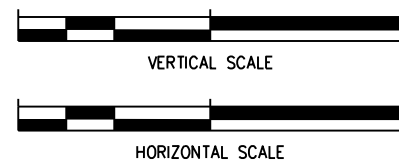
US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

SOUTHWEST STONE-FACED RETAINING WALL CROSS SECTION

P.I.N.
CONTRACT NO.
ALIGNMENT:



FILE NAME = DGN\$SYTIME0123456
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STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY
CITY OF MAMARONECK, NY

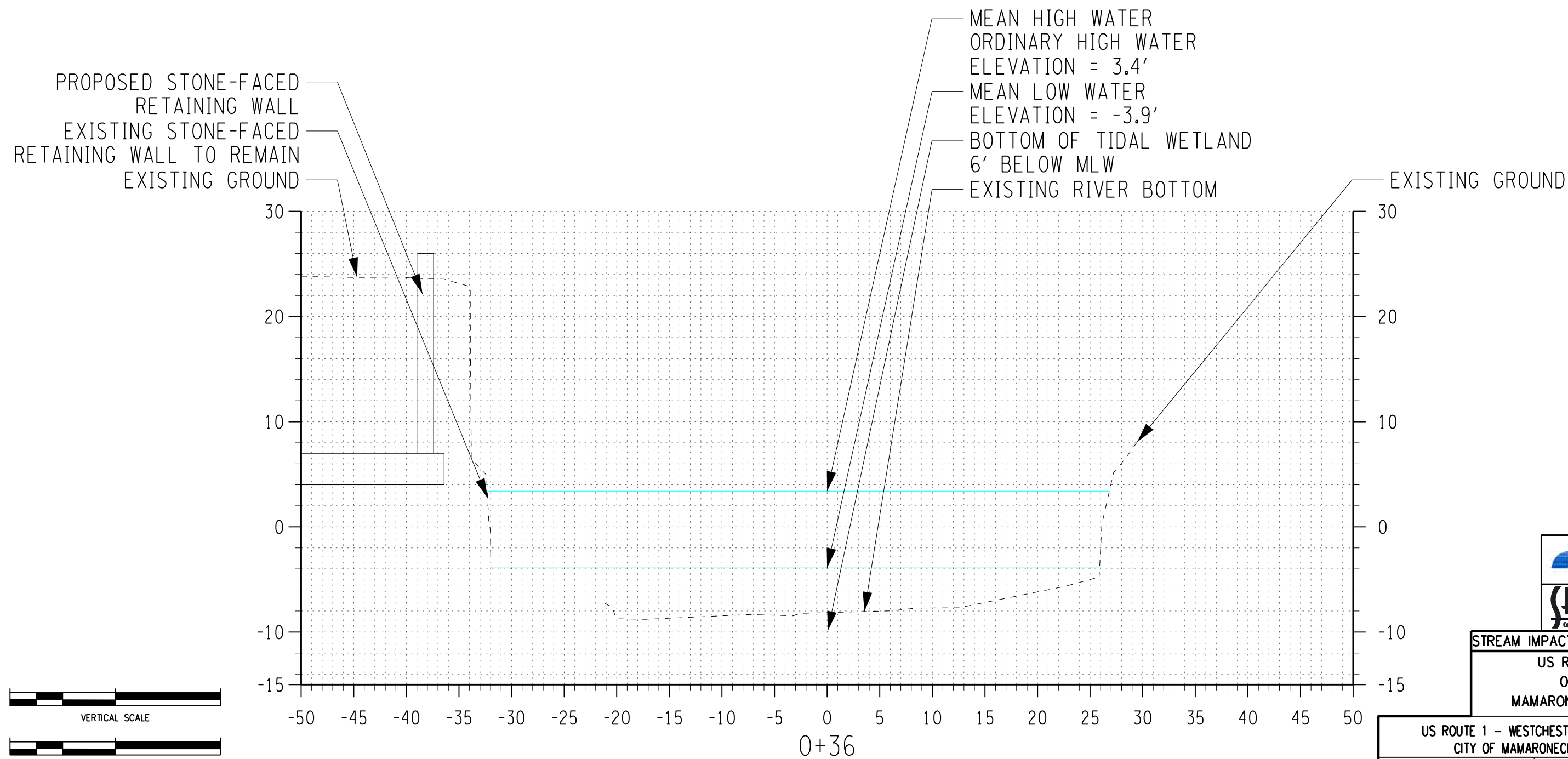
SCE PROJECT NO.
19137.03

DATE
JULY 2021

PIN 8473.14

SOUTHWEST STONE-FACED RETAINING WALL CROSS SECTION

P.I.N.
CONTRACT NO.
ALIGNMENT:



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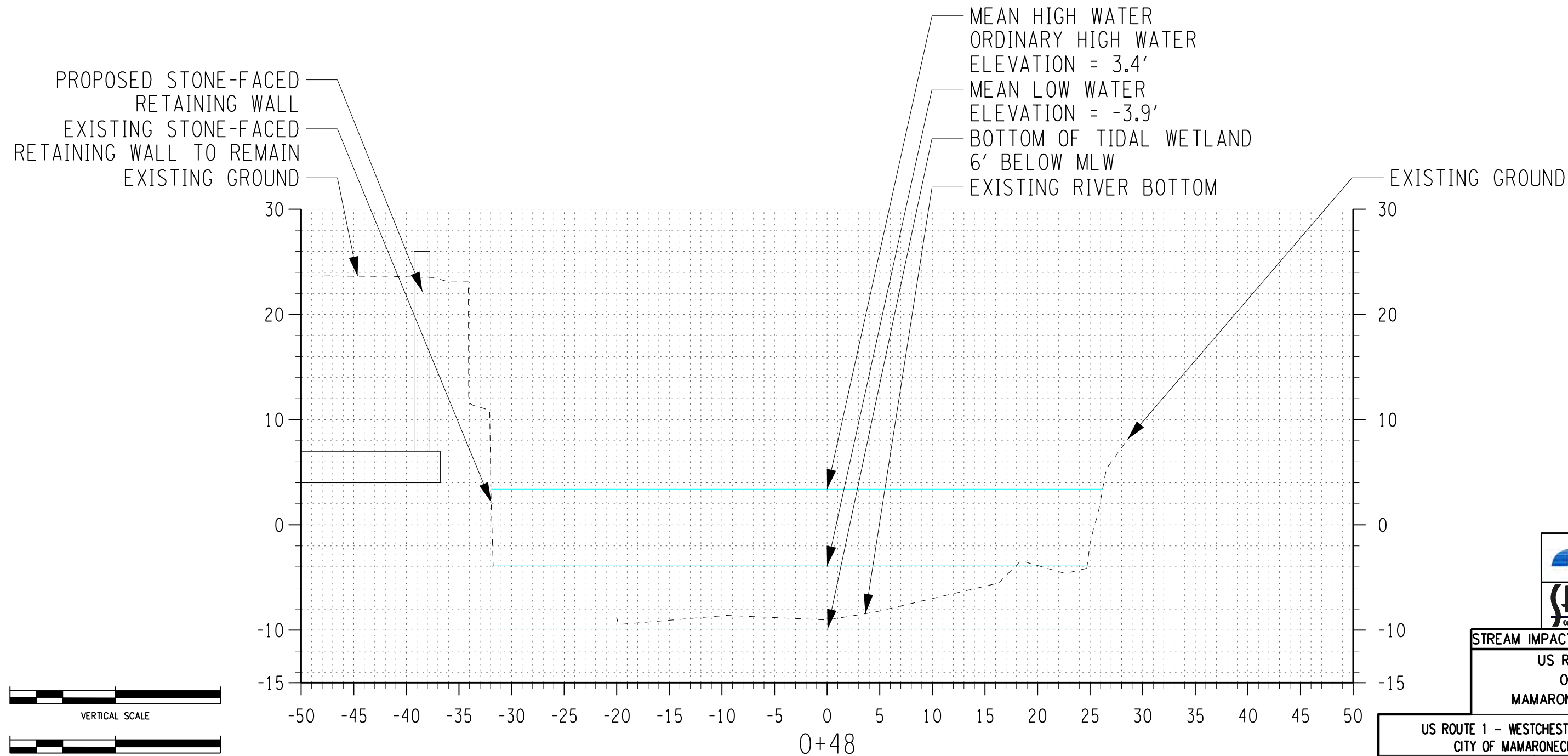


STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

SOUTHWEST STONE-FACED RETAINING WALL CROSS SECTION

P.I.N.
CONTRACT NO.
ALIGNMENT:



FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
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STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY
CITY OF MAMARONECK, NY

SCE PROJECT NO.
19137.03

DATE
JULY 2021

PIN 8473.14

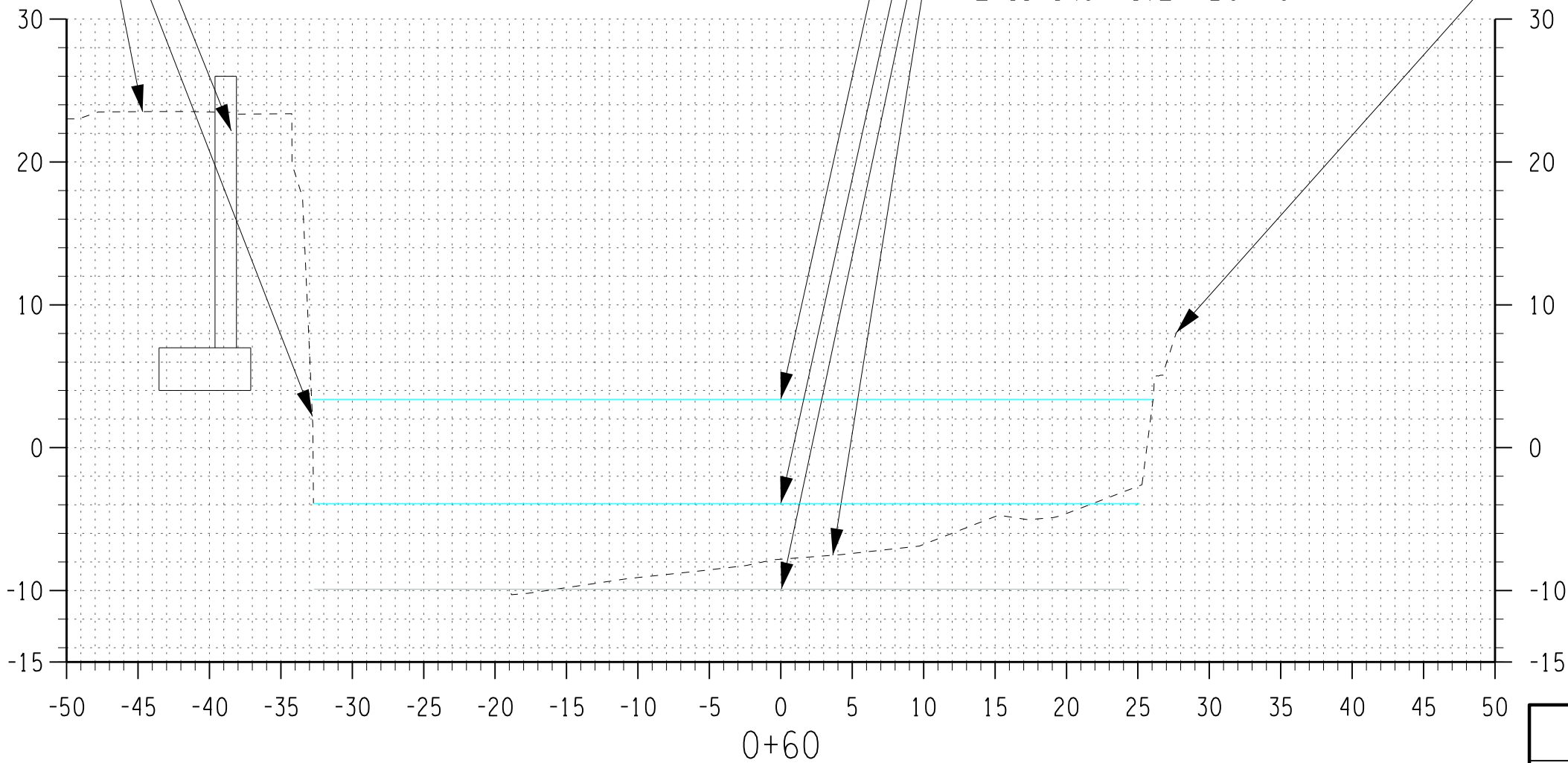
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CONTRACT NO.
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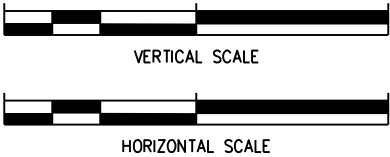
PROPOSED STONE-FACED
RETAINING WALL
EXISTING STONE-FACED
RETAINING WALL
EXISTING GROUND

MEAN HIGH WATER
ORDINARY HIGH WATER
ELEVATION = 3.4'
MEAN LOW WATER
ELEVATION = -3.9'
BOTTOM OF TIDAL WETLAND
6' BELOW MLW
EXISTING RIVER BOTTOM

EXISTING GROUND



FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
USER = DGN\$USERNAME



STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

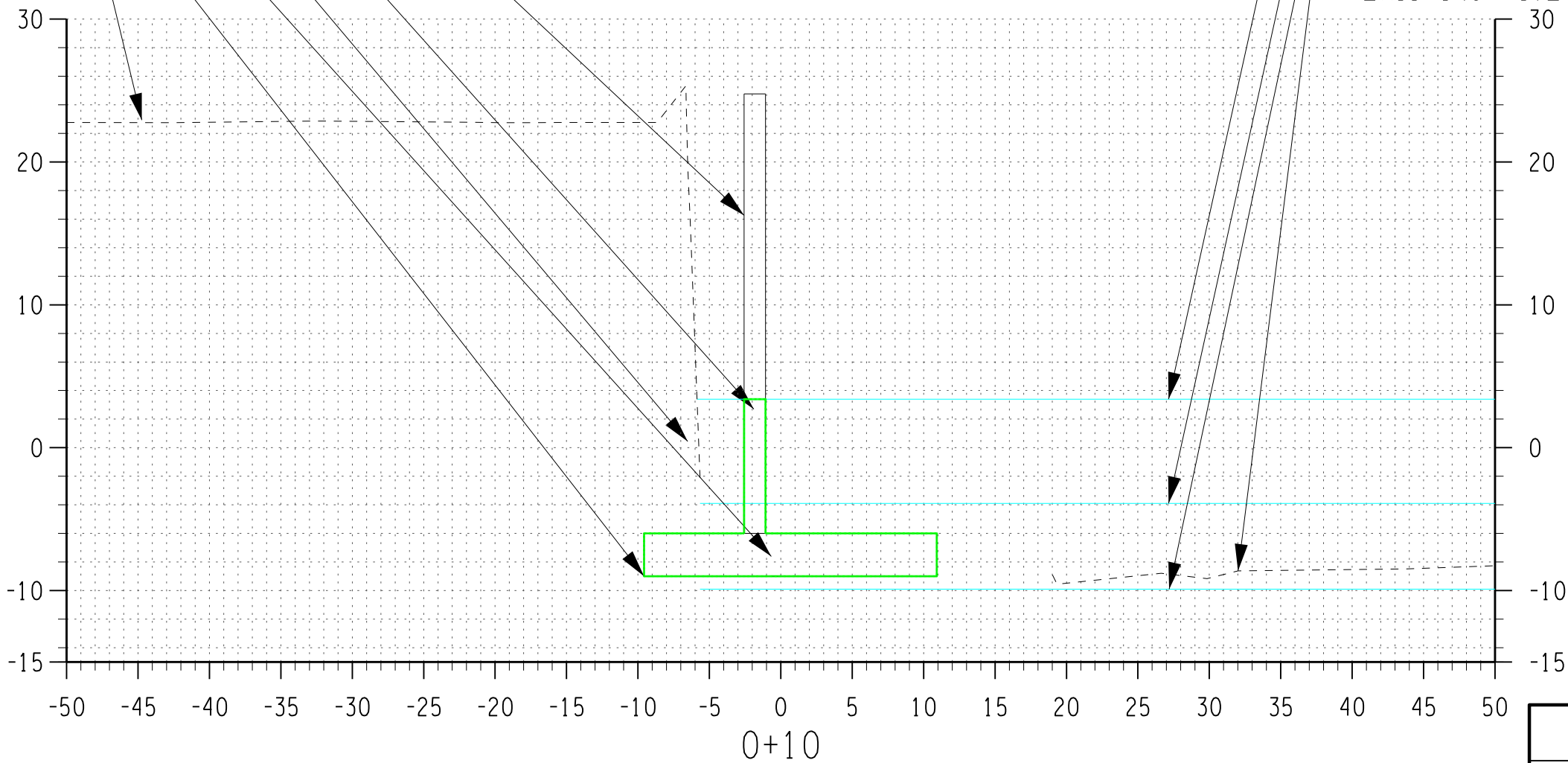
US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

SOUTHWEST FASCIA WINGWALL CROSS SECTION

P.I.N.
CONTRACT NO.
ALIGNMENT:

PROPOSED FASCIA
WINGWALL
OHW IMPACT DUE
TO FILL = 75.60 SF
FILL BEHIND WALL
CALCULATED SEPARATELY
PROPOSED FASCIA
MOMENT SLAB
ESTIMATED ROCK
ELEVATION
EXISTING GROUND

MEAN HIGH WATER
ORDINARY HIGH WATER
ELEVATION = 3.4'
MEAN LOW WATER
ELEVATION = -3.9'
BOTTOM OF TIDAL WETLAND
6' BELOW MLW
EXISTING RIVER BOTTOM



FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
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STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

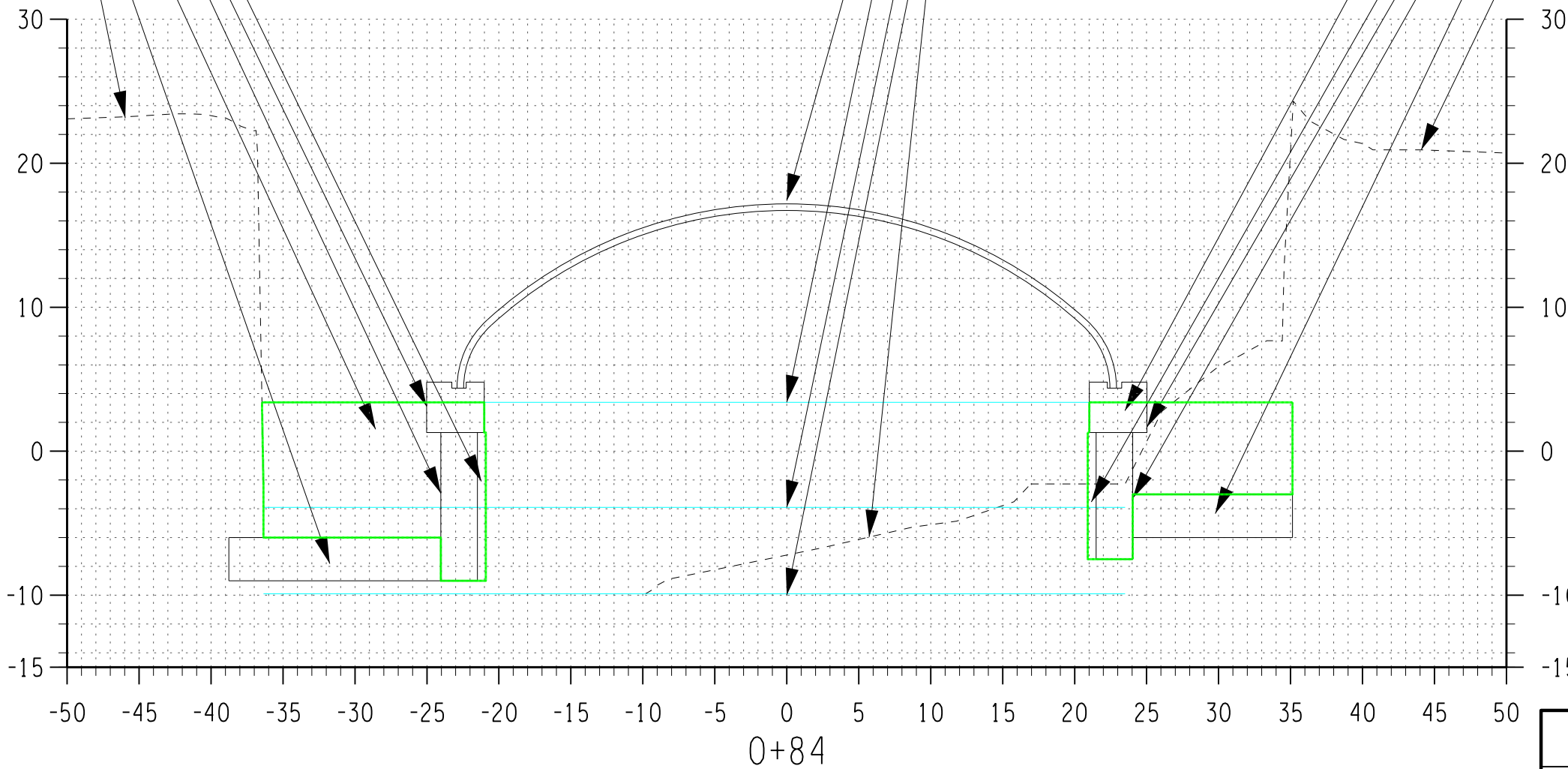
FILL BEHIND NEW FASCIA CROSS SECTION

P.I.N.
CONTRACT NO.
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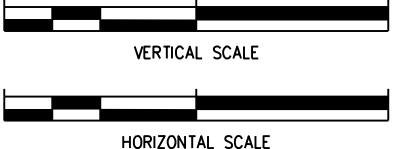
PRECAST WALL PANEL
PROPOSED PILE CAP
PROPOSED 30" DIA.
DRILLED SHAFT
OHW IMPACT DUE
TO FILL = 154.64 SF
PROPOSED FASCIA
MOMENT SLAB
EXISTING GROUND

PROPOSED BRIDGE LINER
MEAN HIGH WATER
ORDINARY HIGH WATER
ELEVATION = 3.4'
MEAN LOW WATER
ELEVATION = -3.9'
BOTTOM OF TIDAL WETLAND
6' BELOW MLW
EXISTING RIVER BOTTOM

OHW IMPACT DUE
TO FILL = 104.81 SF
PRECAST WALL PANEL
PROPOSED PILE CAP
PROPOSED 30" DIA.
DRILLED SHAFT
PROPOSED FASCIA
MOMENT SLAB
EXISTING GROUND



FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
USER = DGN\$USERNAME



STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

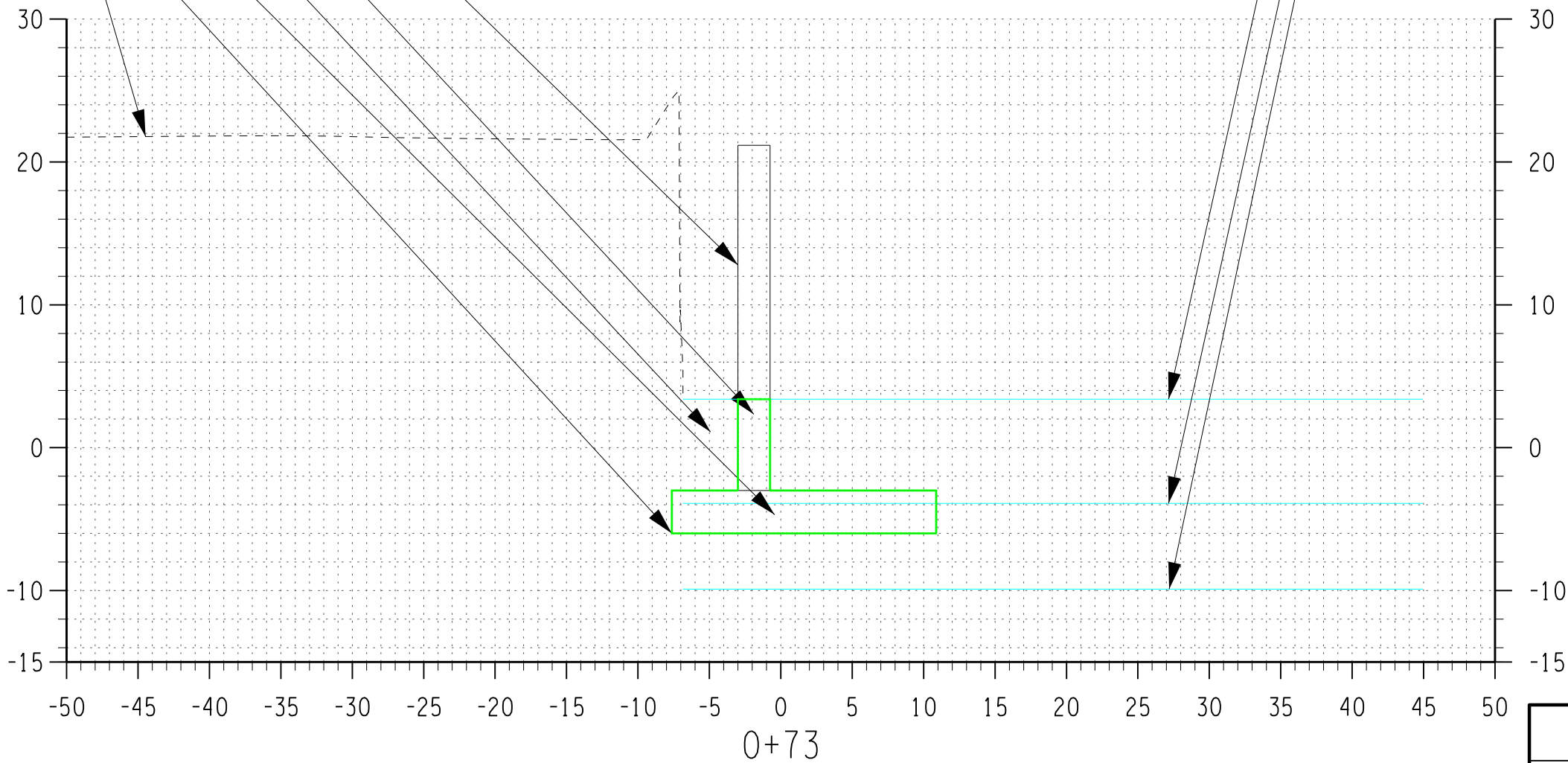
US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

SOUTHEAST FASCIA WINGWALL CROSS SECTION

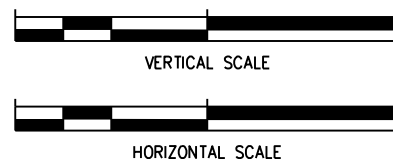
P.I.N.
CONTRACT NO.
ALIGNMENT:

PROPOSED FASCIA
WINGWALL
OHW IMPACT DUE
TO FILL = 69.90 SF
FILL BEHIND WALL
CALCULATED SEPARATELY
PROPOSED FASCIA
MOMENT SLAB
ESTIMATED ROCK
ELEVATION
EXISTING GROUND

MEAN HIGH WATER
ORDINARY HIGH WATER
ELEVATION = 3.4'
MEAN LOW WATER
ELEVATION = -3.9'
BOTTOM OF TIDAL WETLAND
6' BELOW MLW



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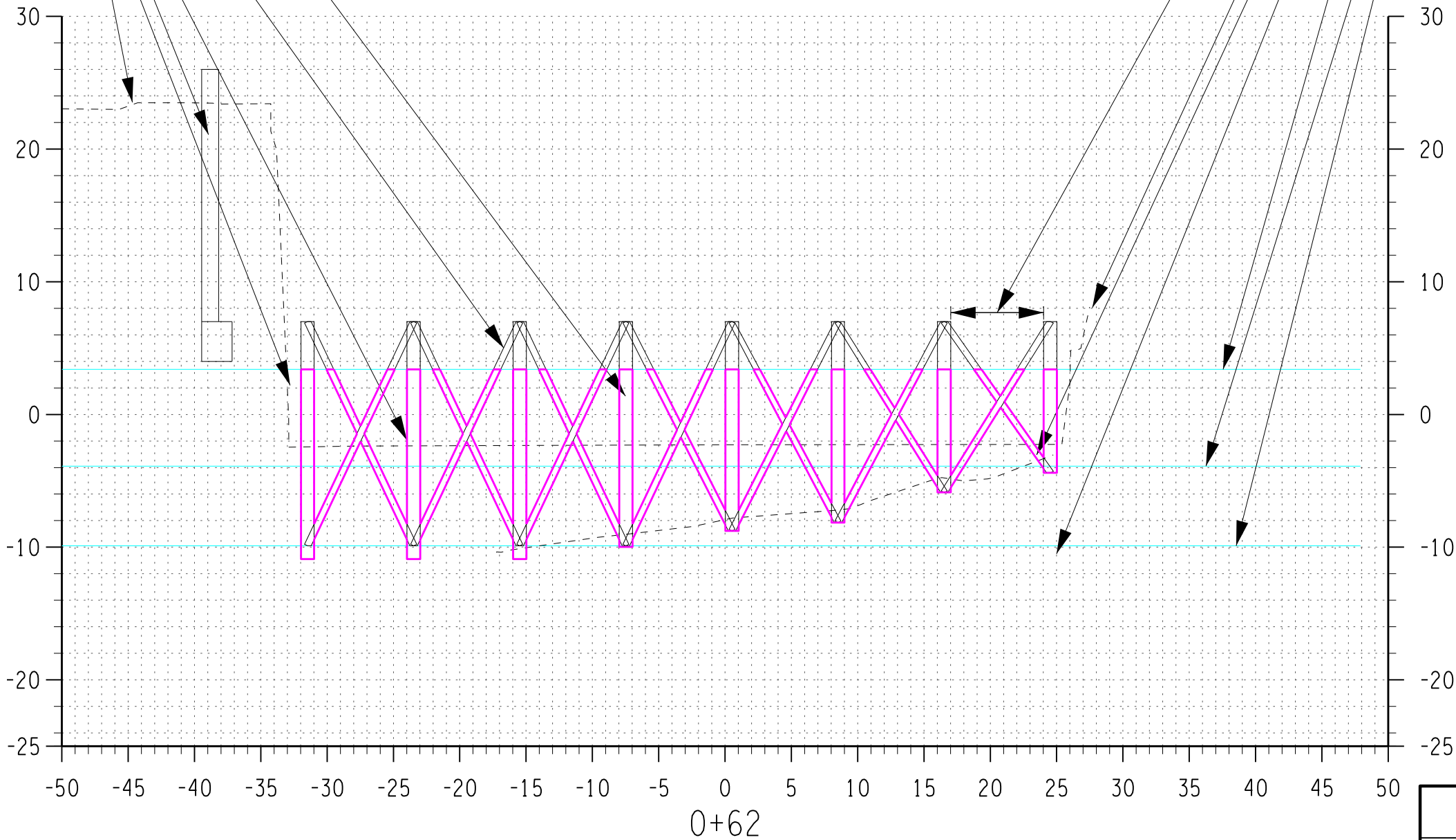
STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

SCAFFOLDING SECTION

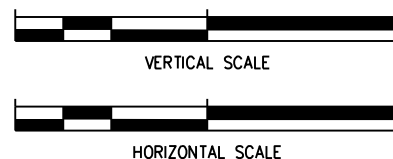
TEMPORARY TIDAL
WETLAND IMPACT PER ROW
OF LEGS = 190.33 SF
6" WIDE CROSS
BRACES (TYP.)
12" WIDE POLE (TYP.)
PROPOSED RETAINING WALL
EXISTING STONE FACED
RETAINING WALL
EXISTING GROUND

LEGS ARE SPACED
8' ON CENTER
EXISTING GROUND
EXISTING RIVER BOTTOM
ASSUME POLE SINKS
12" IN MUCK
MEAN HIGH WATER
ORDINARY HIGH WATER
ELEVATION = 3.4'
MEAN LOW WATER
ELEVATION = -3.9'
BOTTOM OF TIDAL WETLAND
6' BELOW MLW



P.I.N.
CONTRACT NO.
ALIGNMENT:

FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
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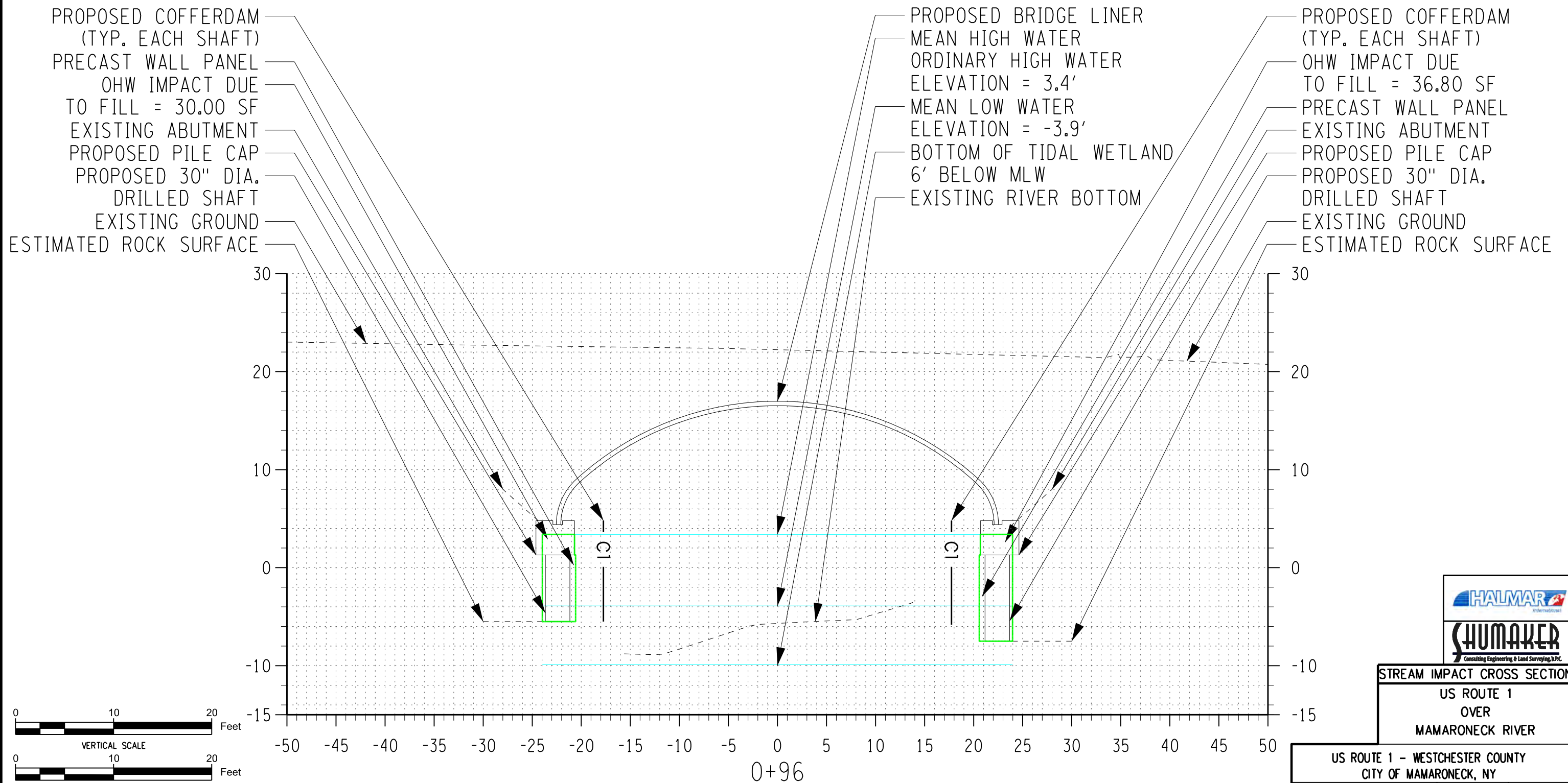


STREAM IMPACT CROSS SECTION
US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

P.I.N.
CONTRACT NO.
ALIGNMENT:

FILE NAME = DGN\$SYTIME0123456
DATE/TIME = DGN\$SYTIME0123456
USER = DGN\$USER\$NAME



STREAM IMPACT CROSS SECTION

US ROUTE 1
OVER
MAMARONECK RIVER

US ROUTE 1 - WESTCHESTER COUNTY CITY OF MAMARONECK, NY		
SCE PROJECT NO. 19137.03	DATE JULY 2021	PIN 8473.14

AREA OF PROPOSED SC STREAM AND TIDAL WETLAND IMPACT - UNDER AND SOUTH OF BRIDGE					
LOCATION	SHAFT NUMBER	PERMANENT IMPACT (SF)	TEMPORARY IMPACT (SF)	PERMANENT STREAM IMPACT (LF)	TEMPORARY STREAM IMPACT (LF)
WEST SIDE	7	INCLUDED IN LAST LINE	17.63	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
WEST SIDE	6	INCLUDED IN LAST LINE	16.99	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
WEST SIDE	5	INCLUDED IN LAST LINE	16.99	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
WEST SIDE	4	INCLUDED IN LAST LINE	16.99	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
WEST SIDE	3	INCLUDED IN LAST LINE	16.99	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
WEST SIDE	2	INCLUDED IN LAST LINE	16.99	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	7	INCLUDED IN LAST LINE	14.42	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	6	INCLUDED IN LAST LINE	17.00	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	5	INCLUDED IN LAST LINE	17.00	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	4	INCLUDED IN LAST LINE	17.00	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	3	INCLUDED IN LAST LINE	17.00	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
EAST SIDE	2	INCLUDED IN LAST LINE	17.00	INCLUDED IN LAST LINE	INCLUDED IN LAST LINE
UNDER & SOUTH OF BRIDGE	N/A	986.87	1307.33	85	8
VOLUME OF PROPOSED SC STREAM AND TIDAL WETLAND IMPACT - UNDER BRIDGE					
LOCATION	AREA (SF)	WIDTH (LF)	VOLUME (CF)	VOLUME OF IMPACT (CY)	
WEST ABUTMENT	30	71.28	2138.4	79.20	
EAST ABUTEMENT	36.8	72.52	2668.66	98.84	
VOLUME OF PROPOSED SC STREAM AND TIDAL WETLAND IMPACT - SOUTH OF EXISTING BRIDGE					
LOCATION	AREA (SF)	WIDTH (LF)	VOLUME (CF)	VOLUME OF IMPACT (CY)	
WEST NEW BRIDGE FASCIA CONSTRUCTION FILL BETWEEN PROPOSED AND EXISTING BRIDGE	154.64	17.02	2631.97	97.48	
EAST NEW BRIDGE FASCIA CONSTRUCTION FILL BETWEEN PROPOSED AND EXISTING BRIDGE	104.81	18.05	1891.82	70.07	
SOUTHWEST FASCIA WINGWALL	75.60	15.14	1144.58	42.39	
SOUTHEAST FASCIA WINGWALL	69.90	13.53	945.75	35.03	
AREA OF PROPOSED SC STREAM IMPACT ONLY - NORTH OF BRIDGE					
LOCATION	SHAFT NUMBER	PERMANENT STREAM IMPACT (SF)	TEMPORARY STREAM IMPACT (SF)	PERMANENT STREAM IMPACT (LF)	TEMPORARY STREAM IMPACT (LF)
NORTH OF BRIDGE	N/A	N/A	555.14	N/A	10

ATTACHMENT F: PHOTOGRAPHS

Photos taken from NYSOPRHP Consultation Submission

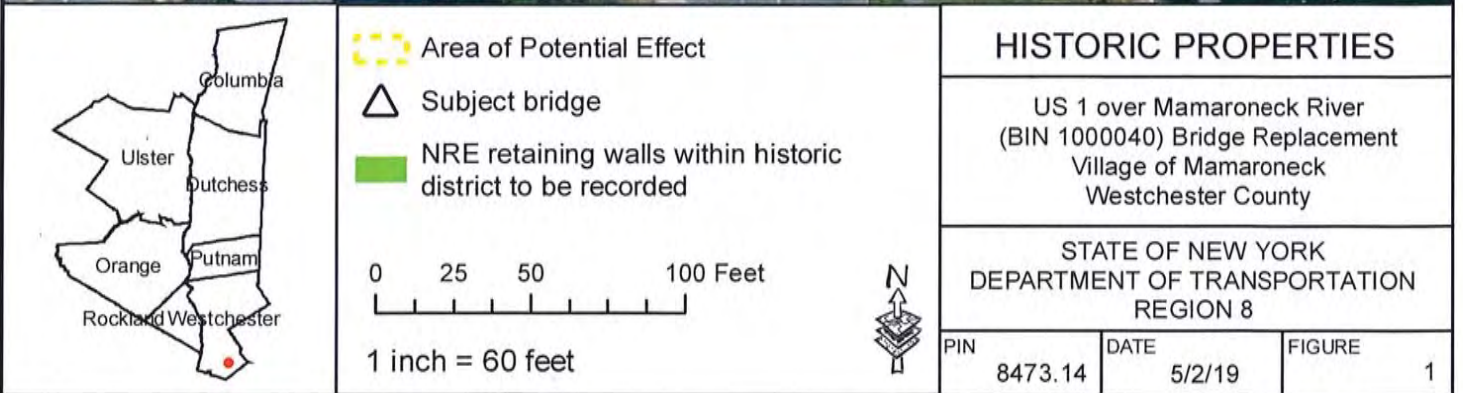
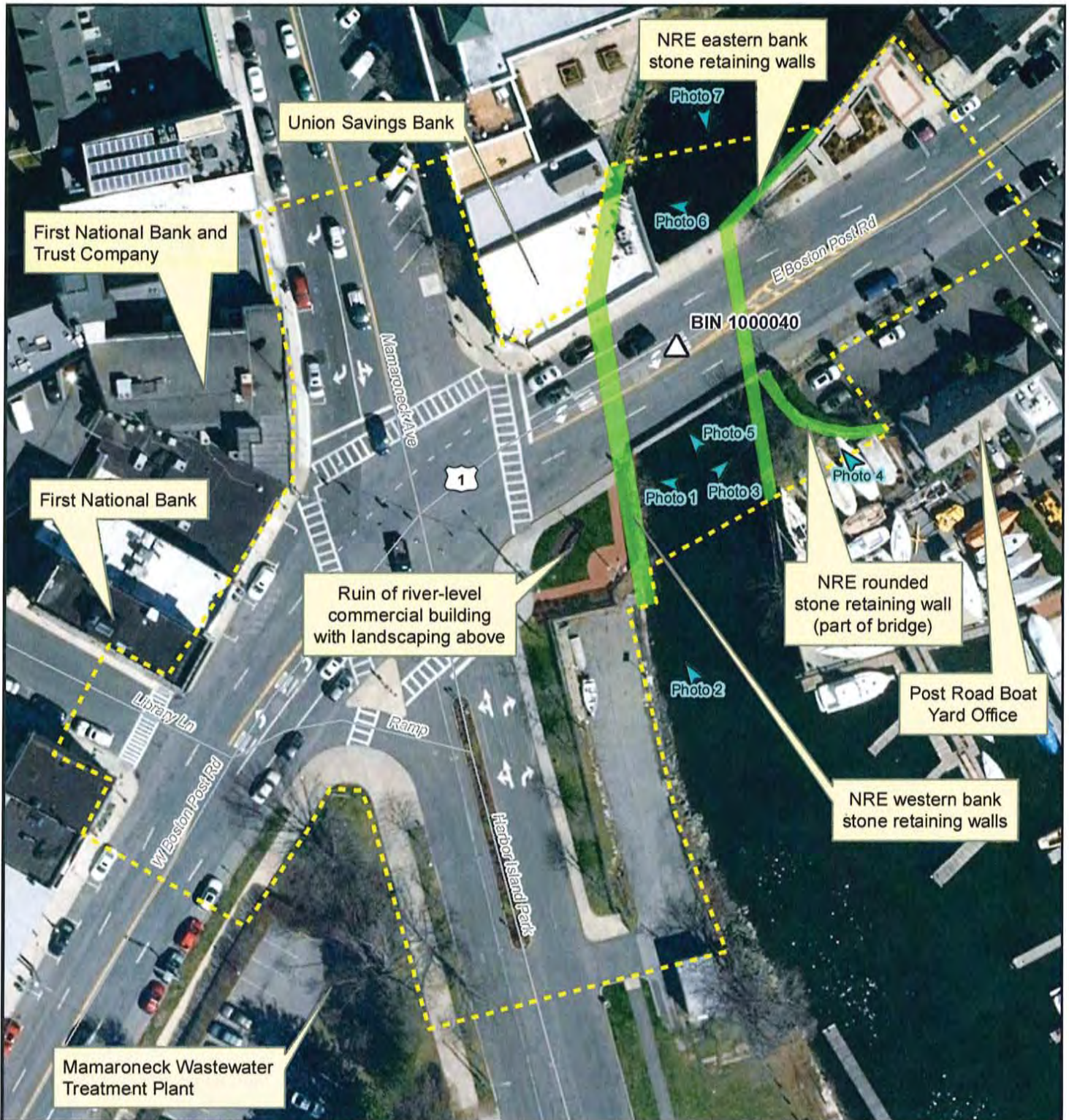




Photo 1: Western bank stone retaining wall located south of the US 1 bridge with building ruin above. View to the northwest.



Photo 2: Western bank stone retaining wall located south of the US 1 bridge. View to the north.



Photo 3: Eastern bank stone retaining wall located south of the US 1 bridge. View to the east.



Photo 4: Rounded stone retaining wall associated with the US 1 bridge, located in southeast quadrant of the bridge. View to the north from the boat yard property.



Photo 5: Western bank stone retaining wall located north of the US 1 bridge. View to the north from south of the bridge.



Photo 6: Western bank stone retaining wall located north of the US 1 bridge, underneath the Union Savings Bank building. View to the west.



Photo 7: Eastern bank stone retaining wall located north of the US 1 bridge. View to the south.

ATTACHMENT G: PROJECT DRAWINGS

PROJECT MANAGER G. BARTUCCI

CHECK L. ARMENDINGER

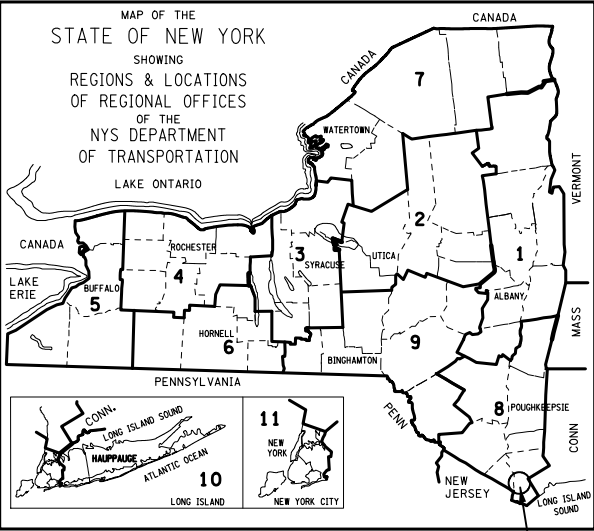
DRAFTING J. ISSA & R. ROZEIK

CHECK P. LANTIGUA

DESIGN J. MORALES

JOB MANAGER K. SHAO

DESIGN SUPERVISOR G. BARTUCCI



Department of Transportation

DESIGN-BUILD CONTRACT FOR LOWER WESTCHESTER BRIDGE BUNDLE
REHABILITATION OF ROUTE 1 OVER MAMARONECK RIVER

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL."

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 09/18/2020

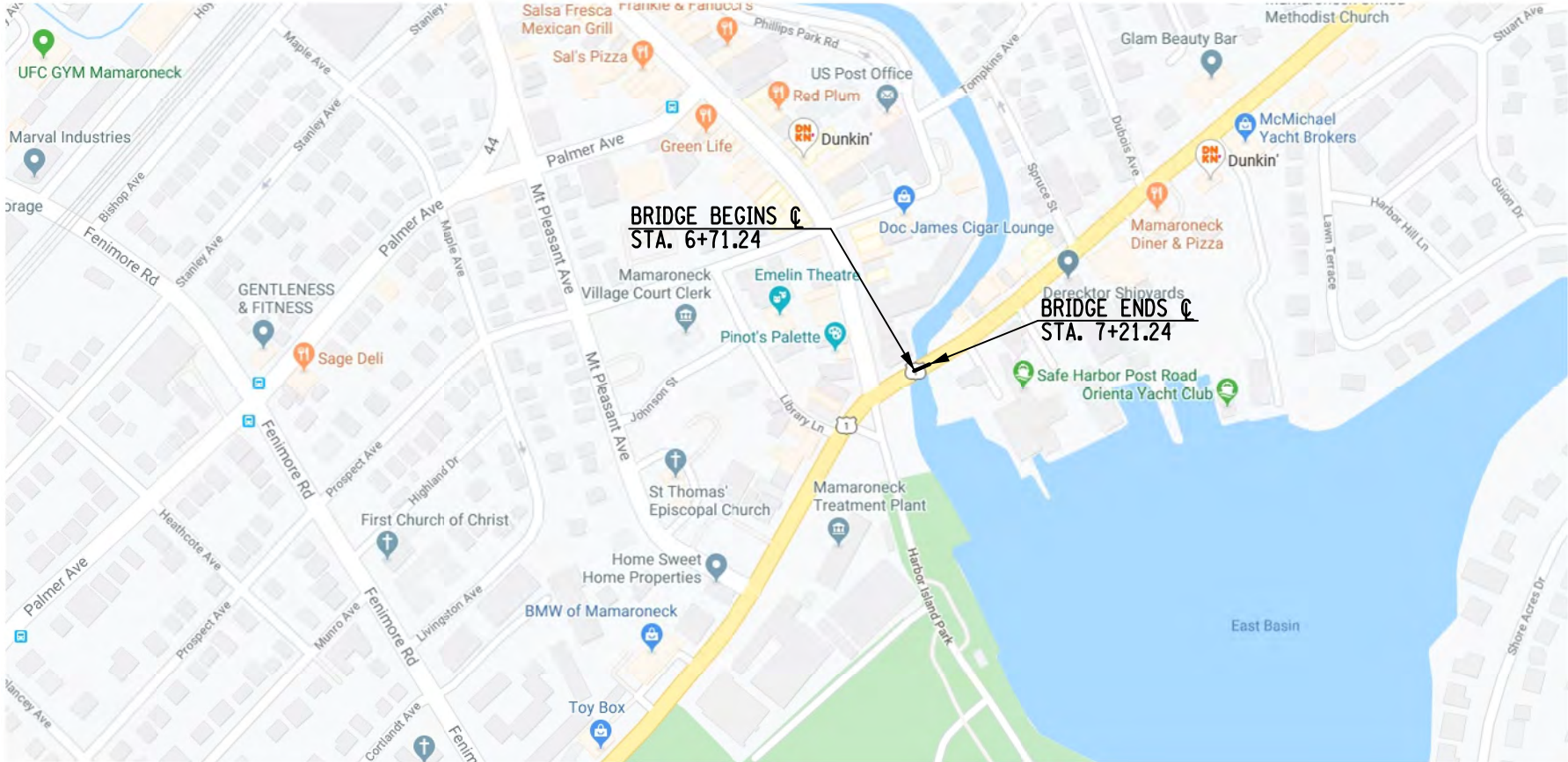
RFC DESIGN FOR DU-16 ARCH BRIDGE - ROUTE 1 OVER MAMARONECK RIVER DATE: 07/09/2021

SITE OF WORK

CONTRACT D900049

WESTCHESTER COUNTY

CONTRACTOR'S NAME		HALMAR INTERNATIONAL LLC	
AWARD DATE		MAY 14, 2020	
COMPLETION DATE			
FINAL ACCEPTANCE DATE			
REGIONAL DIRECTOR			
ENGINEER IN CHARGE			
FINAL COST TOTAL			
FISCAL SHARE		COST(S)	



PROJECT LOCATION



RECOMMENDED BY

RECOMMENDED BY

RECOMMENDED BY

RECOMMENDED BY

APPROVED BY

REGIONAL DESIGN ENGINEER

DATE

REGIONAL CONSTRUCTION ENGINEER

DATE

REGIONAL DIRECTOR OF OPERATIONS

DATE

REGIONAL TRAFFIC ENGINEER

DATE

REGIONAL DIRECTOR

DATE

ROUTE 1 OVER MAMARONECK RIVER		
CITY OF MAMARONECK		
COUNTY: WESTCHESTER		
FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	001
CAPITAL PROJECT IDENTIFICATION NO. 8101.46		
INDEX ON SHEET NO. 003		

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DATE/TIME = 09-JUL-2021 17:05
USER = r-rozeik

DESIGN SUPERVISOR G. BARTUCCI

DESIGN J. MORALES

CHECK P. LANTIGUA

DRAFTING J. ISSA & R.ROZEIK

CHECK L. ARMENDINGER

PROJECT MANAGER G. BARTUCCI

DESIGN UNIT: RFC DESIGN DU-16 ROUTE 1 ARCH BRIDGE

BRIDGE IDENTIFICATION NUMBER (BIN): 1000040
LOCATION DESCRIPTION: ROUTE 1 OVER MAMARONECK RIVER

THE LEAD STRUCTURAL ENGINEER CERTIFIES THE ATTACHED DOCUMENTS FOR:

- ☒ DOCUMENTS WERE SUBMITTED TO THE DESIGN BUILDER FOR REVIEW ON: 07/05/2021
☐ REVIEW COMMENTS WERE RECEIVED ON: 07/08/2021
☐ REVIEW COMMENTS WERE SATISFACTORILY ADDRESSED ON: 07/09/2021


KANG-QUN DAVE SHAO, PE
LEAD STRUCTURAL ENGINEER
07/09/2021
DATE

THE DESIGN MANAGER CERTIFIES THE ATTACHED DOCUMENTS FOR:

- ☐ ACCURACY
☐ ADEQUACY
☐ CONFORMANCE TO STANDARDS OF PRACTICE
☐ COMPLIANCE WITH CODES AND STANDARDS
☐ COST EFFECTIVENESS
☐ QUALITY
☐ FITNESS FOR PURPOSE AND/OR FUNCTION AS SPECIFIED AND/OR IN THE CONTRACT
☐ CONFORMANCE WITH THE STANDARD PRACTICES AND SPECIFICATIONS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION


GERARD BARTUCCI, P.E.
DESIGN MANAGER
07/09/2021
DATE

THE DESIGN QUALITY CONTROL (QC) ENGINEER CERTIFIES THE ATTACHED DOCUMENTS FOR:





- ☐ DESIGN CHECKS HAVE BEEN COMPLETED
☐ WORK CONFORMS TO CONTRACT REQUIREMENTS
☐ ANY DEVIATIONS OR DESIGN EXCEPTIONS HAVE BEEN DOCUMENTED
☐ DESIGN QC ACTIVITIES ARE FOLLOWING THE QUALITY PLAN OF THE DESIGN-BUILDER
☐ ALL OUTSTANDING ISSUES OR COMMENTS FROM DESIGN REVIEWS HAVE BEEN SATISFACTORILY RESOLVED






CHARLES THORN, P.E.
DESIGN QUALITY CONTROL ENGINEER
07/09/2021
DATE

THE ATTACHED DOCUMENTS ARE RELEASED FOR CONSTRUCTION BY:


MATTHEW KATKOCIN, P.E.
DESIGN-BUILD PROJECT MANAGER
07/09/2021
DATE


JOSEPH MUSKUS, P.E.
QUALITY MANAGER
07/09/2021
DATE

AFFIX SEAL: ON:	ALTERED BY: ON:	DESIGN QUALITY ASSURANCE ENGINEER WSP USA	RFC DESIGN		PIN 8101.46		BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
		DQAE DATE THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS	DESIGN UNIT: DU16 Date: 07/09/2021						DESIGN UNIT SIGNATURES INTERIM DESIGN DU-16 US ROUTE 1 OVER MAMARONECK RIVER	DRAWING NO. CVR-2 SHEET NO. 002
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	US ROUTE 1 ARCH BRIDGE							
			OVER MAMARONECK RIVER							
			CITY OF MAMARONECK							
			COUNTY: WESTCHESTER REGION: 8							
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.										
									Department of Transportation	

US ROUTE 1 ARCH BRIDGE	PIN 8101.46	BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
OVER MAMARONECK RIVER				INDEX OF DRAWINGS & ABBREVIATIONS	
CITY OF MAMARONECK				US ROUTE 1 OVER MAMARONECK RIVER	DRAWING NO. IND-1
COUNTY: WESTCHESTER REGION: 8					SHEET NO. 003
  					

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DATE/TIME = 09-JUL-2021 17:05
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DESIGN SUPERVISOR G. BARTUCCI

DESIGN J. MORALES

JOB MANAGER K.SHAO

DRAFTING J. ISSA & R. ROZEIK

CHECK L. ARMENDINGER

PROJECT MANAGER G. BARTUCCI

ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE		DINV	INVERT		IANT_P	ANTENNAS		MDL1P	DEED LINE, TYPE 1		S	SINGLE POST		UEB	ELECTRIC, BOX
	ACOGO	COGO		DS	STRUCTURE, RECTANGULAR		IASCTS	ACCOU. SPEED/COUNT SNSR.S		MDL2P	DEED LINE, TYPE 2		S-P	SINGLE POST, PROPOSED		UEM	ELECTRIC, METER
	ACS	CURVE TO SPIRAL		DSI	STRUCTURE, INVERT		ICABPAD	CABINET & PAD		MDL3P	DEED LINE, TYPE 3		SB-P	BACK TO BACK, PROPOSED		UEMH	ELECTRIC, MANHOLE
	ADPL_P	DETOUR, POINT OF INTERSECT.		DSM	STRUCTURE, MANHOLE		ICCTV	CCTV SITE		MDL4P	DEED LINE, TYPE 4		SDEL	DELINEATORS		UEPT	ELECTRIC, POLE, TRANS.
	AEQN	EQUATION		DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96		ICDPD	CDPD TRANSCEIVER		MDL5P	DEED LINE, TYPE 5		SPM	PARKING METER		UGM	GAS, METER
	AEQNAHD	EQUATION AHEAD		DSR	STRUCTURE, ROUND		ICELLT	CELL PHONE TOWER		MEEP	EASEMENT, EXISTING		SRM	REFERENCE MARKERS		UGMH	GAS, MANHOLE
	AEQNBK	EQUATION BACK		DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R		ICJB	CONDUIT JACK OR BORING		MEPAP_P	EASEMENT, PERM., APPROX.		SRSC3	SHLD, CTY, 123 DIG.		UGLM	GAS, LINE MARKER
	AEVT	EVENT STATION		DST"X" _P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U		ICNTLCAB	CONTROLLER CABINET		MEPP_P	EASEMENT, PERM., BACK LINE		SRSC4	SHLD, CTY, 4 DIG.		UGP	GAS/FUEL PUMP
	APC	POINT OF CURVATURE	ENVIRONMENTAL				ICPB	COMMUNICATION PULL BOX		MEPSP_P	EASEMENT, PERM., SHAPE		SRSC2	SHLD, CTY TOUR, 1-2 DIG.		UGV	GAS, VALVE
	APCC	POINT OF COMPOUND CURVATURE					ICTD	CONDUIT TURNING DOWN		MFAP_P	FEE ACQUISITION, APPROX.		SRSC4	SHLD, CTY TOUR, 3-4 DIG.		UGVT	GAS, VENT
	API	POINT OF INTERSECTION		EIOP_P	STR., INLET, OUTLET PROT.		ICTU	CONDUIT TURNING UP		MFP_P	FEE ACQUISITION, BACK LINE		SRSI	SHLD, INTERSTATE		ULP	LIGHTING, POLE
	APOB	POINT OF BEGINNING		EIPGB_P	STR., INLET PROT., GRAVEL BAG		ICVTRT	COMM. VEH. ROAD TRANSCEIVER		MFSP_P	FEE ACQUISITION, SHAPE		SRSN2	SHLD, NATIONAL, 2 DIG.		ULPM	LIGHTING, POLE, MEDIAN
	APOC	POINT OF CURVATURE		EIPHS_P	STR., INLET PROT., HAY/STRAW		IDEFAULT	DEFAULT		MHBAP	HIGHWAY BNDRY., APPROX.		SRSN3	SHLD, NATIONAL, 3 DIG.		ULPP	LIGHTING, POLE, PED.
	APOE	POINT OF END		EIPP_P	STR., INLET PROT., PREFAB.		IEZR	E-ZPASS READER		MHBCP	HISTORICAL, BLDG. CORNERS		SRSS2	SHLD, STATE, 2 DIG.		UMFC	MISC. FILLER CAP
	APOL	POINT ON LINE		EIPSF_P	STR., INLET PROT., SILT FENCE		IEZTR	TRANSMITTAL READER		MHBP	HIGHWAY BNDRY, PT.		SRSS3	SHLD, STATE, 3 DIG.		UOLM	OIL, LINE MARKER
	APOS	POINT ON SPIRAL		ERCB	RISER, CONCRETE BOX		IFOXCAB	FIBER OPTIC X-CONNECT CABINET		MJCP	PT., JURIS. CITY		SRSS4	SHLD, STATE, 4 DIG.		UP	POLE, WITH UTILITY
	APOT	POINT ON TANGENT		ETRS_P	TRAP, SEDIMENT		IFUSSPL	FUSION SPLICE		MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL				UPD	POLE, DEAD (NO UTILITY)
	APOVT	POINT ON VERTICAL TANGENT		EWFG	WETLAND FLAG		IHARADV	HAR ADVISORY SIGN		MPCC	PT., CROSS CUT					TCBJ	BOX, JUNCTION
	APORC	POINT ON REVERSE CURVE	GEOTECHNICAL				IHARST	HAR SITE		MPDH	PT., DRILL HOLE		TCBP	BOX, PULL BOX		USMH	SANITARY SEWER MANHOLE
	APT	POINT OF TANGENCY					ILC	LOAD CENTER		MPF	PT., FENCE LOCATION		TCBS	BOX, SPLICE		UTB	TELEPHONE, BOOTH
	APVC	POINT OF VERTICAL CURVATURE		IMECSPL	MECHANICAL SPLICE		MPIP	PT., IRON PIPE		UTLM	TELEPHONE, LINE MARKER						
	APVCC	POINT OF VERT. CMPND CURVE		IMSCS	PORT. SPEED & COUNT SENSOR		MPIR	PT., IRON ROD		UTMH	TELEPHONE, MANHOLE						
	APVI	POINT OF VERT. INTERSECTION		IMSCTS	MICRO SPEED & COUNT SENSOR		MPM	PT., MONUMENT		UTVLM	CABLE TV, LINE MARKER						
	APVRC	POINT OF VERT. REVERSE CURVE		IMT	MICROWAVE TRANSCEIVER		MPMM	PT., MONUMENT, MISC.		UTVPB	CABLE TV, PULL BOX						
	APVT	POINT OF VERTICAL TANGENCY		IOVHVS	PERM. OVERHEAD VMS		MPN	PT., NAIL		UUB	UNKNOWN, BOX						
	ASC	SPIRAL TO CURVE		IPASCS	PORT. ACCOU. SPD & CNT. SENSOR		MPRS	PT., RAILROAD SPIKE	TRAFFIC WORK ZONE				UUJB	UNKNOWN, JUNCTION BOX			
	ASPI	SPIRAL POINT OF INTERSECTION	LANDSCAPE				MPST	PT., SPIKE					TWZAP_P	ARROW PANEL		UUMH	UNKNOWN, MANHOLE
	ASTS	SPIRAL TO SPIRAL					IPSS	PAVEMENT SURFACE SENSOR		MPTW	PT., TREE W/ WIRE		TWZAPC_P	ARROW PANEL, CAUTION MODE		UUPB	UNKNOWN, PULL BOX
	AST	SPIRAL TO TANGENT		IPVMS	PERM. VMS		MPWL	PT., WALL LOCATION		TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT		UUVL	UNKNOWN, VALVE			
	ATS	TANGENT TO SPIRAL		IRM	RAMP METER	ROW ACQUISITION				TWZBCD_P	BARRICADE (TYPE IID)		UUVT	UNKNOWN, VENT			
	AVEVT	VERTICAL EVENT POINT		IRWIS	RDWY WEATHER INFO. SENSOR					TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)		UUW	UNKNOWN, WELL			
	AVHIGH	VERTICAL HIGH POINT		ISP	SOLAR PANEL		TWZFLG_P	FLAGGER		UWFH	WATER, FIRE HYDRANT						
	AVLOW	VERTICAL LOW POINT		ISST	SPREAD SPECT. TRANSCEIVER		TWZFT_P	FLAG TREE		UWM	WATER, METER						
BRIDGE				ITDB	TELEPHONE DEMARCATION BLK		TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)		UWMH	WATER, MANHOLE						
				ITP	SUBSURFACE TEMP. PROBE		TWZLUM_P	LUMINAIRE (TEMPORARY)		UWV	WATER, VALVE						
CONTROL				IVTRT	VEHICLE TO RDWY TRANSCEIVER		TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC		UWW	WATER, WELL						
				IWIMD	WEIGHT IN MOTION DETECTOR		TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR	1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED). 2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.). 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES. 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS). 5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS. 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.								
	IWVR	WIRELESS VIDEO REPEATER		TWZSGN_P	SIGN (TEMPORARY)												
	IWVRC	WIRELESS VIDEO RECEIVER		TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)												
	IWVTT	WIRELESS VIDEO TRANSMITTER		TWZWL_P	WARNING LIGHT												
ROADWAY				RES_P	ELEVATION, SPOT		TWZWV_P	WORK VEHICLE									
				RGA	GUIDE RAIL, ANCHOR		TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR									
	RGP	GUIDE POST, SINGLE															

US ROUTE 1 ARCH BRIDGE

OVER MAMARONECK RIVER

CITY OF MAMARONECK

COUNTY: WESTCHESTER

REGION: 8

PIN 8101.46

BRIDGES 1000040

CULVERTS 890715

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

LEGEND, LINE AND POINT SYMBOLOGY (SHEET 1 OF 2)

US ROUTE 1 OVER MAMARONECK RIVER

CONTRACT NUMBER D900049

DRAWING NO. LEG-1

SHEET NO. 004

HALMAR International

MCLAREN CONSULTING GROUP

NEW YORK OPPORTUNITY

Department of Transportation

FILE NAME = D900049_cph_leg-2.dgn
DATE/TIME = 09-JUL-2021 17:05
USER = r-rozeik

DESIGN SUPERVISOR G. BARTUCCI
JOB MANAGER K. SHAO

DESIGN J. MORALES
CHECK P. LANTIGUA

DRAFTING J. ISSA & R. ROZEIK
CHECK L. ARMENDINGER

PROJECT MANAGER G. BARTUCCI

ALIGNMENT			LANDSCAPE			ROADWAY			TRAFFIC WORK ZONE			
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION				
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		RCZ_P	CLEAR ZONE		TWZBT_P	BARRIER, TEMPORARY	
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW		RG	GUIDE RAIL, MISCELLANEOUS		TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS	
	AT_P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM		TWZCD_P	CHANNELIZING DEVICE	
BRIDGE				LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN		TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING	
	BR	RAIL		LAW	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	UTILITIES			
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	STYLE	NAME	DESCRIPTION	
CONTROL				LFILL_P	FILL LIMIT		RGP_P	GUIDE POST		UC	CONDUIT, UNDERGROUND	
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCH	CONDUIT, HANGING	
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UCO	CONDUIT, OVERHEAD	
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UE	ELECTRIC LINE, UNDERGROUND	
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEH	ELECTRIC LINE, HANGING	
	DCP_P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UEO	ELECTRIC LINE, OVERHEAD	
	DDG_P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS_P	RAIL, PHOTO, LARGE SCALE		UETO	ELECTRIC TRANSMISSION, OVERHEAD	
	DDP_P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UESS	ELECTRIC, SUBSTATIONS	
	DDS_P	DITCH, STONE LINED		MDL	DEED LINE		RRPSS	RAIL, PHOTO, SMALL SCALE		UFO	FIBER OPTIC, UNDERGROUND	
	DFL_P	FLOW LINE		MEE	EASEMENT, EXISTING		RRS	RUMBLE STRIP		UFOH	FIBER OPTIC, HANGING	
	DSSD	SLOTTED DRAIN		MEP_P	EASEMENT, PERMANENT		RRSL_S_P	RAIL, SURVEY, LARGE SCALE		UFOO	FIBER OPTIC, OVERHEAD	
	DUD_P	UNDERDRAIN		MEPA_P	EASEMENT, PERMANENT, APPROX.		RRSSS	RAIL, SURVEY, SMALL SCALE		UG	GAS, UNDERGROUND	
ENVIRONMENTAL				MET_P	EASEMENT, TEMPORARY	SIGNS				UGH	GAS, HANGING	
	EBLHS	BALE, STRAW		META_P	EASEMENT, TEMPORARY, APPROX.		SBLB	BILLBOARDS		UGO	GAS, OVERHEAD	
	ECT	CURTAIN, TURBIDITY		MF_P	FEE ACQUISITION, W/ ACCESS		SM	MULTIPLE POST		UIC	INFORM CABLE, UNDERGROUND	
	EDMC	DAM, COFFER		MFA_P	FEE ACQUISITION, APPROXIMATE		SSO	STRUCTURE, OVERHEAD		UICH	INFORM CABLE, HANGING	
	EDMEC_P	DAM, EARTHEN CHECK		MFS_P	FEE ACQUISITION, SHAPE		SSOC	STRUCTURE, OVHD. CANTILEVER		UO	OIL LINE, UNDERGROUND	
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA_P	FEE ACQUISITION, W/O ACCESS	STRIPING				UOH	OIL LINE, HANGING	
	EDMPC_P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STB*	BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE	
	EDMSC_P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDB*	DOUBLE BROKEN LINE		UPGW	POLE, GUY WIRE	
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STD*	DOTTED LINE LONG		USA	SANITARY SEWER, UNDERGROUND	
	EFNSV	FENCE, SILT & VEGETATION		MHBW	HWY BOUNDARY, FACE OF WALL		STDS*	DOTTED LINE SHORT		USAH	SANITARY SEWER, HANGING	
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STFB*	FULL BARRIER LINE		USAF	SANITARY SEWER, FORCE MAIN, UGND	
	EWAA_P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STPB*	PARTIAL BARRIER LINE		USAFH	SANITARY SEWER, FORCE MAIN, HANG	
	EW	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STRCT	ROUNDABOUT, CAT TRACKS		UT	TELEPHONE, UNDERGROUND	
	EWFS	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STRYL	ROUNDABOUT, YIELD LINE		UTH	TELEPHONE, HANGING	
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STSB	STOP BAR		UTO	TELEPHONE, OVERHEAD	
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STSE*	SOLID, EDGE		UTV	CABLE TV, UNDERGROUND	
				MJPB	JURISDICTION, PUBLIC LANDS		STXL	X WALK, LADDER LINE		UTVH	CABLE TV, HANGING	
				MJS	JURISDICTION, STATE		STXLB	X WALK, LADDER BAR LINE		UTVO	CABLE TV, OVERHEAD	
				MJT	JURISDICTION, TOWN		* = W (WHITE) OR Y (YELLOW)				UUU	UNKNOWN, UNDERGROUND
				MJV	JURISDICTION, VILLAGE		TRAFFIC CONTROL				UUH	UNKNOWN, HANGING
				MPL	PROPERTY LOT LINE		TCSW	SIGNAL, SPAN WIRE		UUO	UNKNOWN, OVERHEAD	
				MPLA	PROPERTY LOT LINE, APPROXIMATE						UW	WATER LINE, UNDERGROUND
				MSL	SUB LOT LINE						UWH	WATER LINE, HANGING
											UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).

2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).

3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.

4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).

5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.

6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

US ROUTE 1 ARCH BRIDGE	PIN 8101.46	BRIDGES 1000040	CULVERTS 890715	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
OVER MAMARONECK RIVER				LEGEND, LINE AND POINT SYMBOLOGY (SHEET 2 OF 2)	DRAWING NO. LEG-2
CITY OF MAMARONECK				US ROUTE 1 OVER MAMARONECK RIVER	SHEET NO. 005
COUNTY: WESTCHESTER	REGION: 8				

HALMAR International

Mclaren ENGINEERING GROUP applied ingenuity

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

US Route 1 Over Mamaroneck Joint Permit Application

Page 54 of 187

1. SEALING OF STRUCTURAL CONCRETE ITEM 559.16960025 SHALL APPLY TO ALL EXPOSED CONCRETE OF THE SUBSTRUCTURES.

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 50.
2. ALL STEEL ARCH LINER PLATES, INCLUDING STIFFENERS IF REQUIRED, CONNECTION PLATES, BOLTS, AND SHIMS, SHALL BE GALVALNIZED.
3. STUD SHEAR CONNECTORS SHALL BE WELDED PRIOR TO GALVANIZING. THE WORKERS DO NOT WALK ON ANY SURFACE WITH INSTALLED STUD SHEAR CONNECTOR.
4. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.
5. FOR THE VARIOUS LUMP SUM STRUCTURAL STEEL ITEMS IN THE CONTRACT, THE "TOTAL WEIGHT FOR PROGRESS PAYMENT" IS AS FOLLOW:

ITEM	TOTAL WEIGHT FOR PROGRESS PAYMENT (POUNDS)	BIN
564.0501	-	1000040






6. THE DETAILS FOR THE BARRIER REINFORCEMENT ARE FOR THE SLIP-FORMED OR CAST-IN-PLACE OPTION ONLY.

1. EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19.
2. EXISTING BRIDGE SIDEWALKS AND PARAPETS SHALL BE REMOVED UNDER ITEM 202.120001.
3. ACCORDING TO THE REQUIREMENTS OF 202-3.01 GENERAL AND SAFETY REQUIREMENTS, A REMOVAL PLAN, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER FOURTEEN (14) DAYS PRIOR TO BEGINNING THE DEMOLITION.
4. REFER TO HASP FOR SAFETY AND HEALTH REQUIREMENTS.

4. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

1. ALL REINFORCEMENT TO BE EPOXY COATED EXCEPT AS NOTED BELOW:
ALL FOOTING REINFORCEMENT SHALL BE PLAIN STEEL BARS.

1. DRILLED HOLES SHALL BE CLEANED OF EXCESS GALVANIZED COATING THAT PREVENTS PROPERBOLT INSTALLATION.
2. REASONABLE ACCOMMODATIONS FOR THE PREVENTION OF WET STORAGE STAINING (WHITE RUST) OF HOT-DIPPED GALVANIZED (HDG) MATERIALS SHALL BE PROVIDED AT ALL TIMES. STORAGE OF HDG MATERIALS OUTDOORS SHOULD BE AVOIDED IF POSSIBLE. STORAGE (OR SHIPPING) OF HDG MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE AVOIDED. IF OUTDOOR STORAGE IS UNAVOIDABLE, EXAMPLES OF REASONABLE ACCOMMODATIONS ARE AS FOLLOWS: STORE MATERIALS OFF OF THE GROUND AWAY FROM ALL VEGETATION, USE NON-RESINOUS WOODEN SPACERS TO ALLOW VENTILATION AND AVOID MOISTURE BUILD UP, INCLINE MEMBERS TO ALLOW DRAINAGE. EXAMPLES OF NON-RESINOUS WOODS ARE: POPLAR, ASH AND SPRUCE. WHITE RUST THAT IS DETERMINED TO BE DETRIMENTAL TO THE INTENDED USE OF THE MEMBER OR HAVE A NEGATIVE VISUAL IMPACT ON THE STRUCTURE SHALL BE REPAIRED IN ACCORDANCE WITH THE NYS STEEL CONSTRUCTION MANUAL. WHITE RUST THAT IS DETERMINED TO BE CAUSED BY IMPROPER STORAGE OR SHIPPING OF HDG MATERIALS SHALL BE REPAIRED AT NO COST TO THE STATE.
3. REASONABLE ACCOMMODATIONS FOR THE PREVENTION OF WET STORAGE STAINING (WHITE RUST) OF HOT-DIPPED GALVANIZED (HDG) MATERIALS SHALL BE PROVIDED AT ALL TIMES. STORAGE OF HDG MATERIALS OUTDOORS SHOULD BE AVOIDED IF POSSIBLE. STORAGE (OR SHIPPING) OF HDG MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE AVOIDED. IF OUTDOOR STORAGE IS UNAVOIDABLE, EXAMPLES OF REASONABLE ACCOMMODATIONS ARE AS FOLLOWS: STORE MATERIALS OFF OF THE GROUND AWAY FROM ALL VEGETATION, USE NON-RESINOUS WOODEN SPACERS TO ALLOW VENTILATION AND AVOID MOISTURE BUILD UP, INCLINE MEMBERS TO ALLOW DRAINAGE. EXAMPLES OF NON-RESINOUS WOODS ARE: POPLAR, ASH AND SPRUCE. WHITE RUST THAT IS DETERMINED TO BE DETRIMENTAL TO THE INTENDED USE OF THE MEMBER OR HAVE A NEGATIVE VISUAL IMPACT ON THE STRUCTURE SHALL BE REPAIRED IN ACCORDANCE WITH THE NYS STEEL CONSTRUCTION MANUAL. WHITE RUST THAT IS DETERMINED TO BE CAUSED BY IMPROPER STORAGE OR SHIPPING OF HDG MATERIALS SHALL BE REPAIRED AT NO COST TO THE STATE.

AFFIX SEAL: ON:		ALTERED BY: ON:		DESIGN QUALITY ASSURANCE ENGINEER WSP USA												
		DATE THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		RFC DESIGN												
				DESIGN UNIT: <u>DU16</u>												
				Date: <u>07/09/2021</u>												
				AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		US ROUTE 1 ARCH BRIDGE		PIN 8101.46		BRIDGES 1000040		CULVERTS		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER D900049
				OVER MAMARONECK RIVER												
				CITY OF MAMARONECK								GENERAL NOTES		DRAWING NO. ST5-01		
												US ROUTE 1 OVER MAMARONECK RIVER		SHEET NO. 006		
				COUNTY: WESTCHESTER		REGION: 8										
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.																
																

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DESIGN SUPERVISOR G. BARTUCCI
JOB MANAGER K. SHAO

DESIGN J. MORALES

CHECK P. LANTIGUA

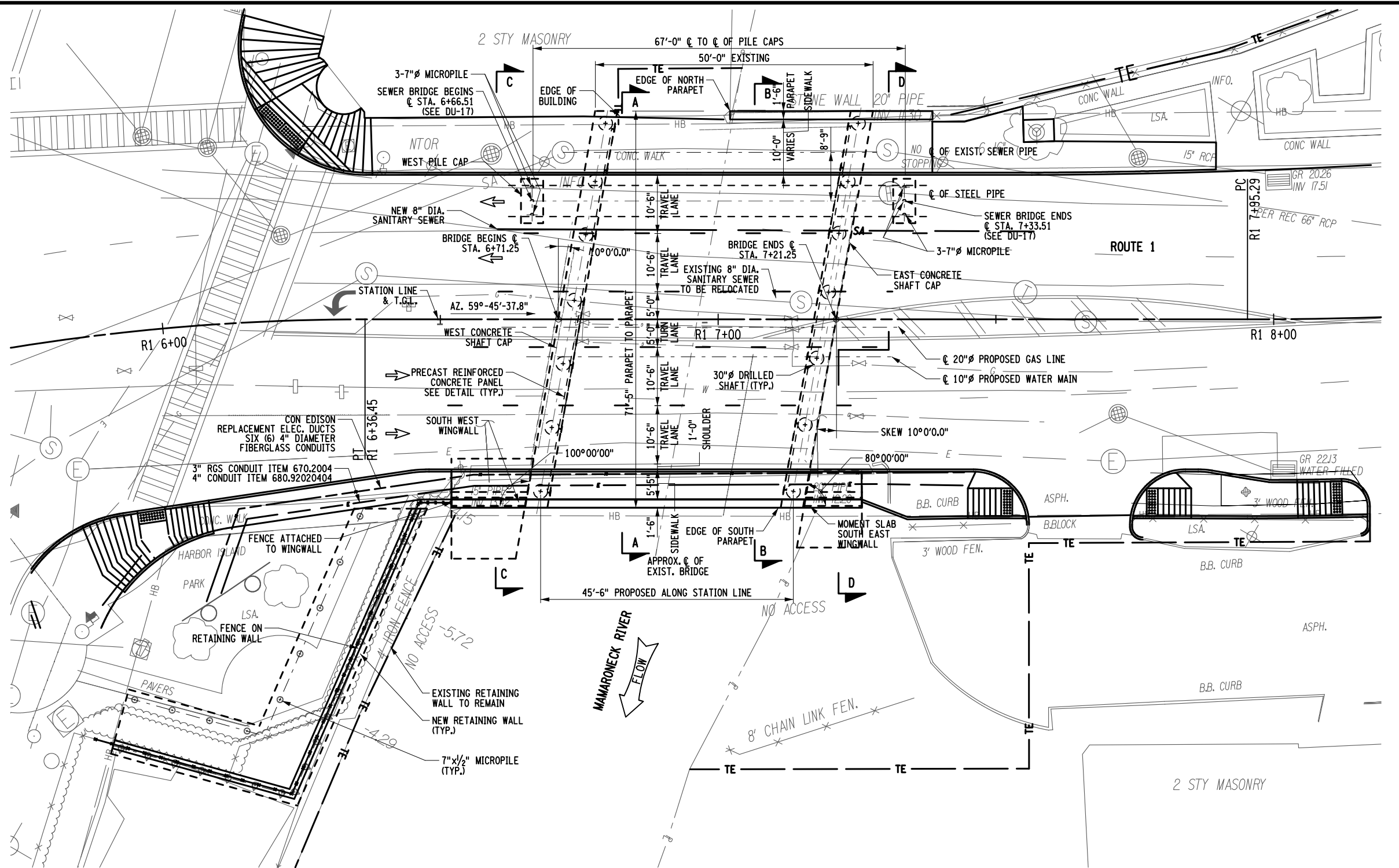
DRAFTING J. ISSA & R. ROZEIK

CHECK L. ARMENDINGER

PROJECT MANAGER G. BARTUCCI

LOAD RATING (LFD)		
INVENTORY	HS	TONS
OPERATING	HS	TONS
LRFR RATING FACTORS		
INVENTORY	HL-93	
OPERATING	HL-93	

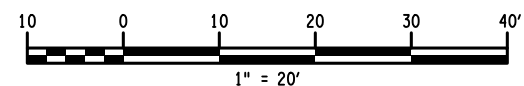
HYDRAULIC DATA				
DRAINAGE AREA		24 SQ. MILES	BASIC FLOOD	DESIGN FLOOD
RECURRENCE INTERVAL (YEARS)			50	100
PEAK DISCHARGE		(FT./S)	5052	5760
HIGH WATER ELEVATION AT POINT OF MAX. BACKWATER		EXISTING	6.53	6.94
		PROPOSED	6.53	6.94
AVG. VELOCITY THRU STRUCT. @ DESIGN FLOOD (FT./SEC.).			6.7	7.4
SCOUR ANALYSIS:		MINIMUM CHANNEL EL. -FT.		
	Q100 SCOUR DEPTH (FT)	Q100 SCOUR ELEV. (FT)	Q500 SCOUR DEPTH (FT)	Q500 SCOUR ELEV. (FT)
BEGIN ABUTMENT	-	-	-	-
END ABUTMENT	-	-	-	-
SCOUR DEPTH IS MEASURED FROM MINIMUM CHANNEL ELEVATION				



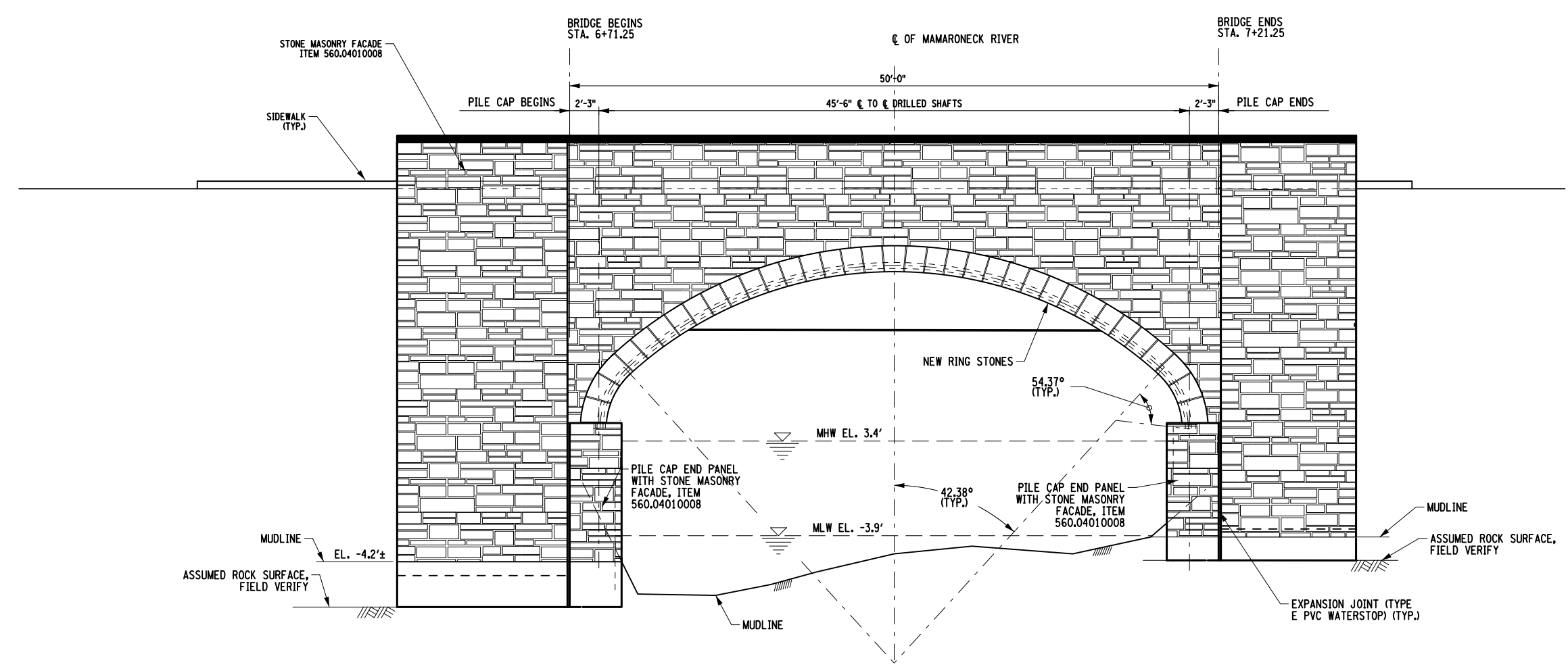
PROPOSED BRIDGE PLAN

SCALE: 1" = 20'-0"

NOTE:
PRIOR DRILLING SHAFTS AND MICROPILES, GAS AND OTHER UTILITIES TO BE RELOCATED, SEE DU-18 SHEETS UTP-01 AND 02 FOR TEMPORARY AND PERMANENT UTILITIES LAYOUT.
SECTION A-A SHOWN ON ST5-06
SECTION B-B SHOWN ON ST5-07
SECTION C-C SHOWN ON ST5-08
SECTION D-D SHOWN ON ST5-09



AFFIX SEAL: ON:	ALTERED BY: ON:	DESIGN QUALITY ASSURANCE ENGINEER WSP USA	RFC DESIGN DESIGN UNIT: DU16 Date: 07/09/2021		US ROUTE 1 ARCH BRIDGE OVER MAMARONECK RIVER CITY OF MAMARONECK COUNTY: WESTCHESTER REGION: 8		PIN 8101.46	BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.			BRIDGE GENERAL PLAN US ROUTE 1 OVER MAMARONECK RIVER		DRAWING NO. ST5-02 SHEET NO. 007		Department of Transportation	

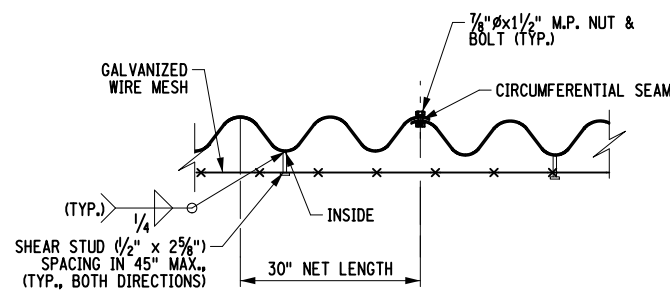


PROPOSED ARCHITECTURAL TREATMENT SOUTH ELEVATION
SCALE: 1" = 10'-0"

AFFIX SEAL: ON:	ALTERED BY: ON:	DESIGN QUALITY ASSURANCE ENGINEER WSP USA	RFC DESIGN				CONTRACT NUMBER D900049				
		DQAE _____ DATE _____	DESIGN UNIT: DU16		PIN 8101.46	BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	DRAWING NO. ST5-03 SHEET NO. 008		
		THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		Date: 07/09/2021							
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	US ROUTE 1 ARCH BRIDGE							COUNTY: WESTCHESTER REGION: 8	
			OVER MAMARONECK RIVER								
			CITY OF MAMARONECK								
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.			US ROUTE 1 OVER MAMARONECK RIVER		Department of Transportation		McLaren Engineering Group		NEW YORK STATE OF OPPORTUNITY		

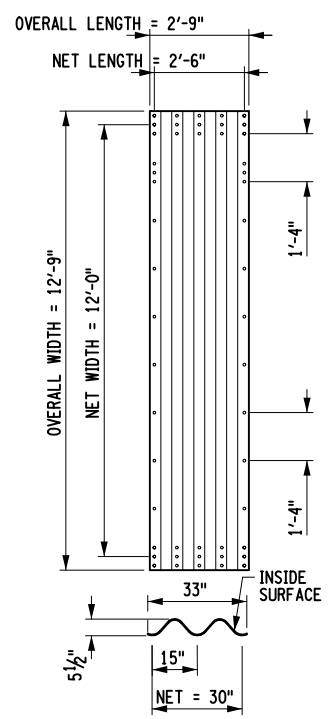
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DATE/TIME = 09-JUL-2021 17:05
USER = r-rozeik

PROJECT MANAGER G. BARTUCCI
CHECK L. ARMENDINGER
DRAFTING J. ISSA & R. ROZEIK
CHECK P. LANTIGUA
DESIGN J. MORALES
JOB MANAGER K. SHAO
DESIGN SUPERVISOR G. BARTUCCI



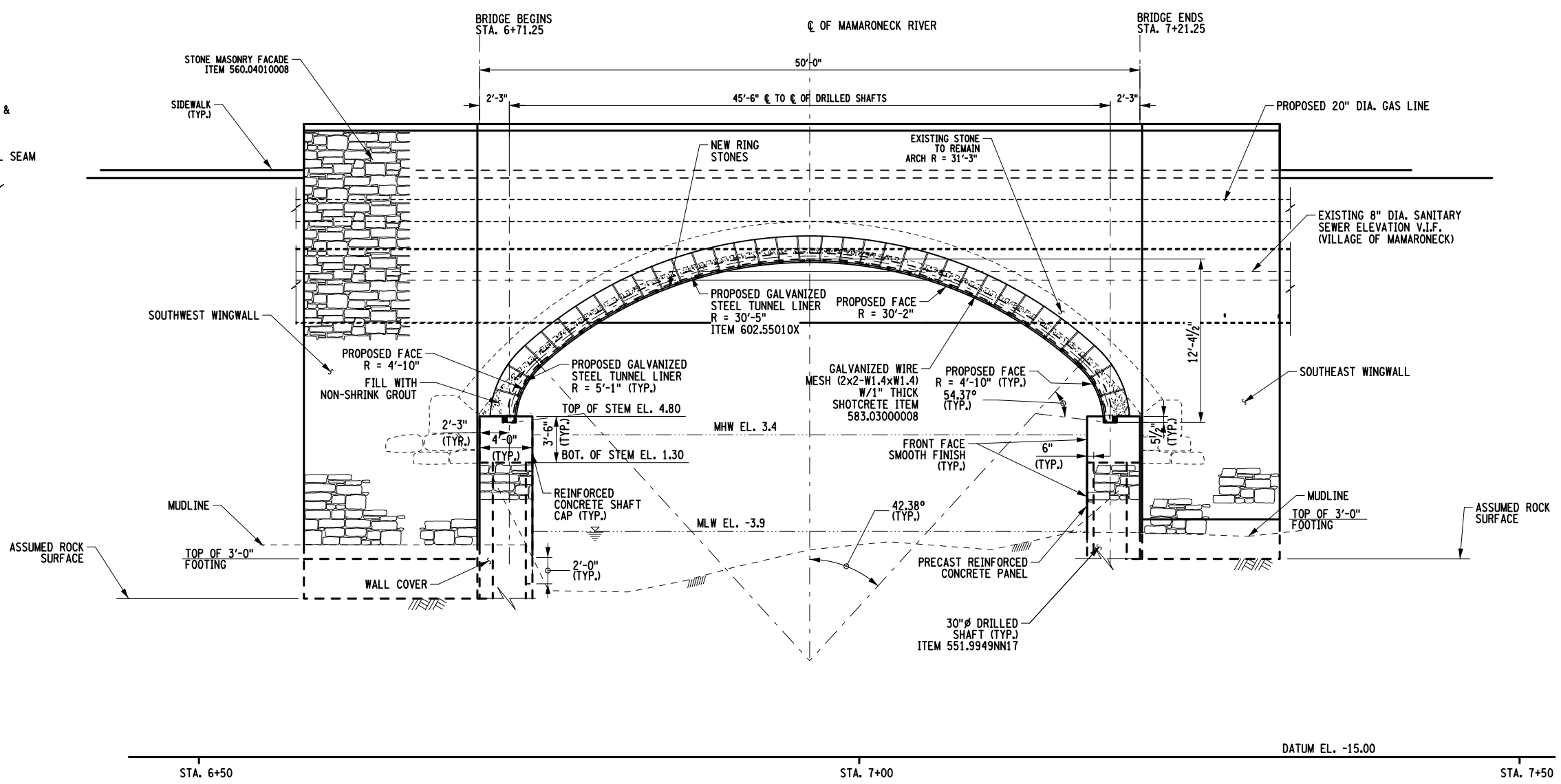
STANDARD 15"x5.5" CORRUGATION

- NOTES:
- 5/16 (.318) PLATE SHALL BE TWO CORRUGATIONS.
 - 7/8" BOLT DIAMETER PER ASTM A449.



STANDARD CORRUGATION PLAN

SCALE: N.T.S.

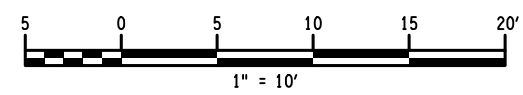


PROPOSED BRIDGE SOUTH ELEVATION

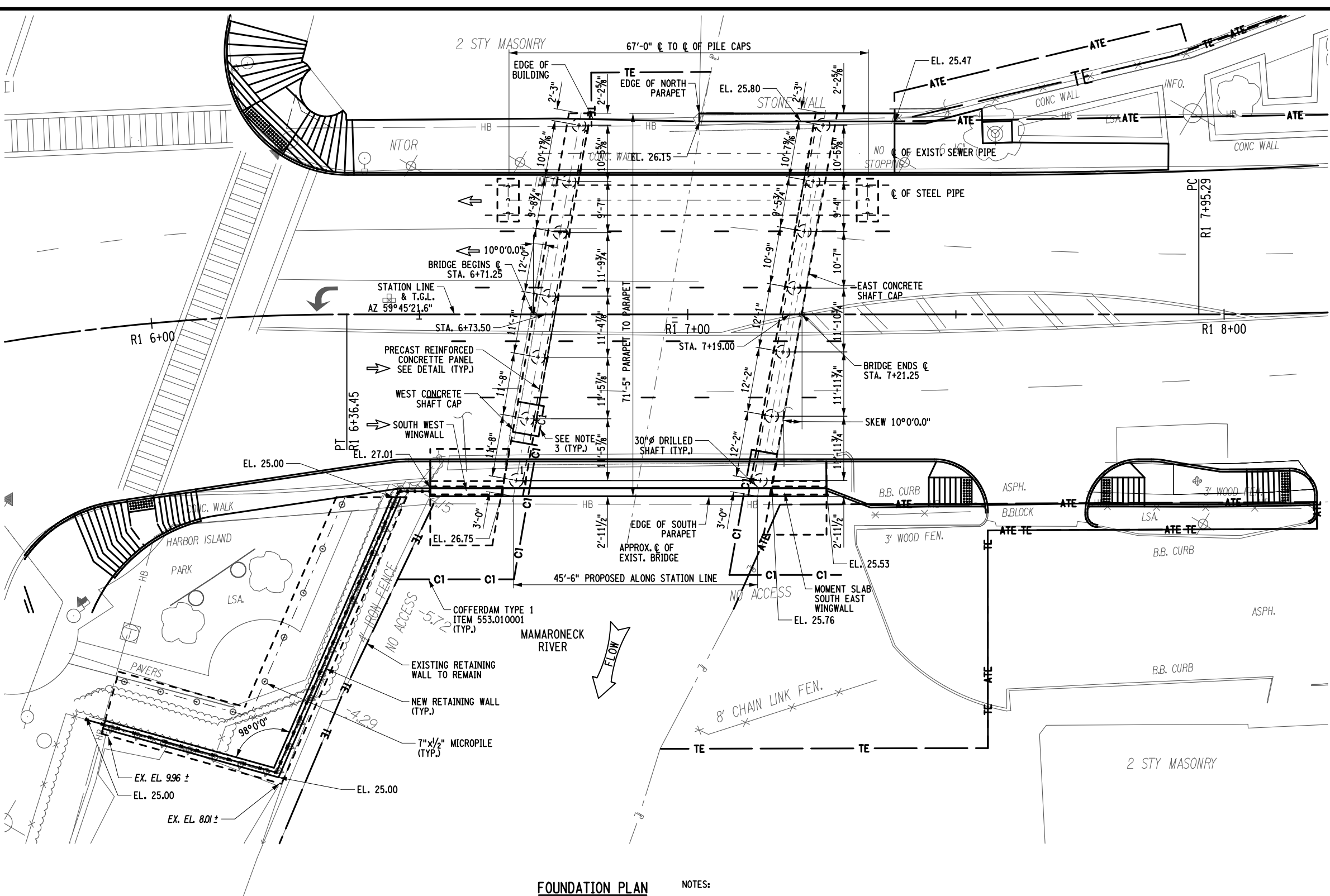
SCALE: 1" = 10'-0"

- NOTES:
- NON-SHRINK GROUT SHALL CONFORM TO SECTIONS 701-05 OF NEW YORK STATE DOT STANDARD SPECIFICATIONS, MEET ASTM C1107.
 - MEASUREMENTS ARE TO THE INSIDE CRESTS OF THE CORRUGATIONS.
 - DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
 - CIRCUMFERENTIAL PLATE LENGTHS ARE IN TERMS OF S = 16 INCHES.
 - SEE DRAWING NO. ST5-02 FOR PROPOSED BRIDGE SOUTH ELEVATION VIEW.
 - ALL COMPOUND ARCH RADII AND THEIR CORRESPONDING ANGLES ARE ASSOCIATED WITH THE ARCH SECTION THAT IS NORMAL TO THE ABUTMENTS.

AFFIX SEAL: ON:		ALTERED BY: ON:		DESIGN QUALITY ASSURANCE ENGINEER WSP USA	
		DQAE		DATE	
		THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS			
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		RFC DESIGN		DESIGN UNIT: DU16	
		Date: 07/09/2021			
		US ROUTE 1 ARCH BRIDGE		PIN 8101.46	
		OVER MAMARONECK RIVER		BRIDGES 1000040	
		CITY OF MAMARONECK		CULVERTS	
		COUNTY: WESTCHESTER		REGION: 8	
		IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.			
		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER D900049	
		BRIDGE ELEVATION AND DETAILS		DRAWING NO. ST5-04	
		US ROUTE 1 OVER MAMARONECK RIVER		SHEET NO. 009	
				Department of Transportation	

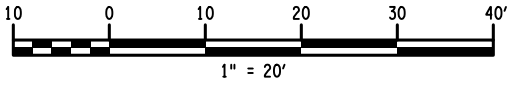


DRILLED SHAFT					
BEGIN SHAFT CAP			END SHAFT CAP		
NO.	STATION	OFFSET	NO.	STATION	OFFSET
1	STA. 6+68.04	30.96' R	1	STA. 7+13.53	30.96' R
2	STA. 6+70.07	19.47' R	2	STA. 7+15.66	18.98' R
3	STA. 6+72.10	07.98' R	3	STA. 7+17.77	07.00' R
4	STA. 6+74.11	03.4' L	4	STA. 7+19.87	04.90' L
5	STA. 6+76.19	15.24' L	5	STA. 7+21.73	15.49' L
6	STA. 6+77.88	24.82' L	6	STA. 7+23.38	24.82' L
7	STA. 6+79.73	35.29' L	7	STA. 7+25.23	35.29' L



FOUNDATION PLAN
SCALE: 1" = 20'-0"

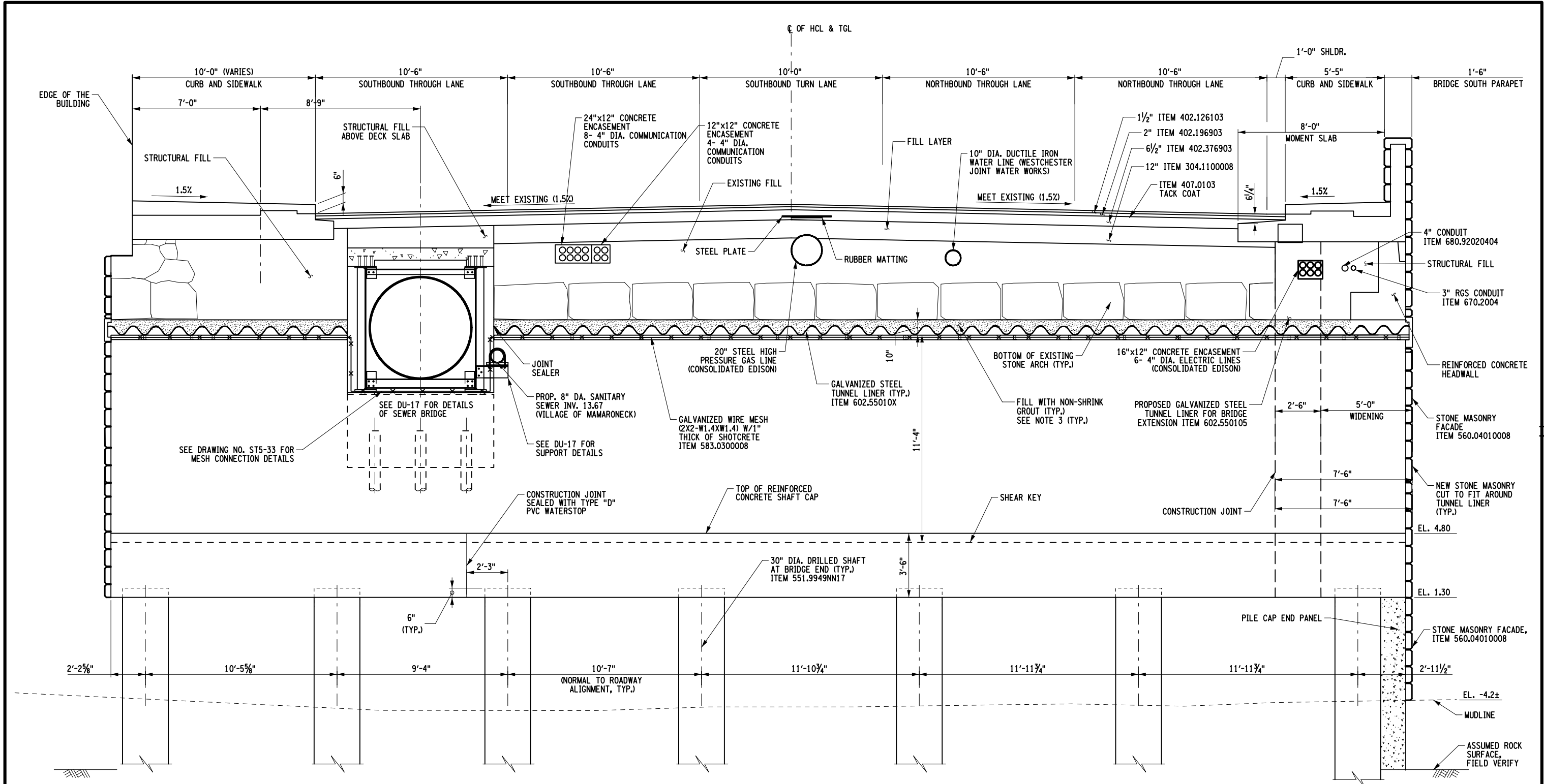
- NOTES:
- PRIOR TO DRILLING SHAFTS AND MICROPILES, GAS AND OTHER UTILITIES TO BE RELOCATED, SEE DU-18 SHEETS UTP-01 AND 02 FOR TEMPORARY AND PERMANENT UTILITIES LAYOUT.
 - UTILITIES NOT SHOWN FOR CLARITY.
 - DRILLED SHAFTS TO BE CONSTRUCTED ONE AT A TIME. SEE COFFERDAM DETAIL SHOWN ON ST5-32.



AFFIX SEAL: ON:	ALTERED BY: ON:	DESIGN QUALITY ASSURANCE ENGINEER WSP USA	RFC DESIGN DESIGN UNIT: DU16 Date: 07/09/2021		PIN 8101.46		BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
	AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		US ROUTE 1 ARCH BRIDGE OVER MAMARONECK RIVER CITY OF MAMARONECK COUNTY: WESTCHESTER REGION: 8		DRILLED SHAFT LAYOUT PLAN US ROUTE 1 OVER MAMARONECK RIVER		DRAWING NO. ST5-05 SHEET NO. 010		NEW YORK STATE OF OPPORTUNITY. Department of Transportation	
	THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		DATE		McLaren		McLaren		McLaren	
	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.									

FILE NAME = 847314_sph_00_sec.dwg
DATE/TIME = 09-JUL-2021 17:06
USER = r-rozeik

PROJECT MANAGER G. BARTUCCI
CHECK L. ARMENDINGER
DRAFTING J. ISSA & R. ROZEIK
CHECK P. LANTIGUA
DESIGN J. MORALES
JOB MANAGER K. SHAO
DESIGN SUPERVISOR G. BARTUCCI



PROPOSED BRIDGE SECTION A-A (UP STATION)

SCALE: $\frac{3}{16}'' = 1'-0''$

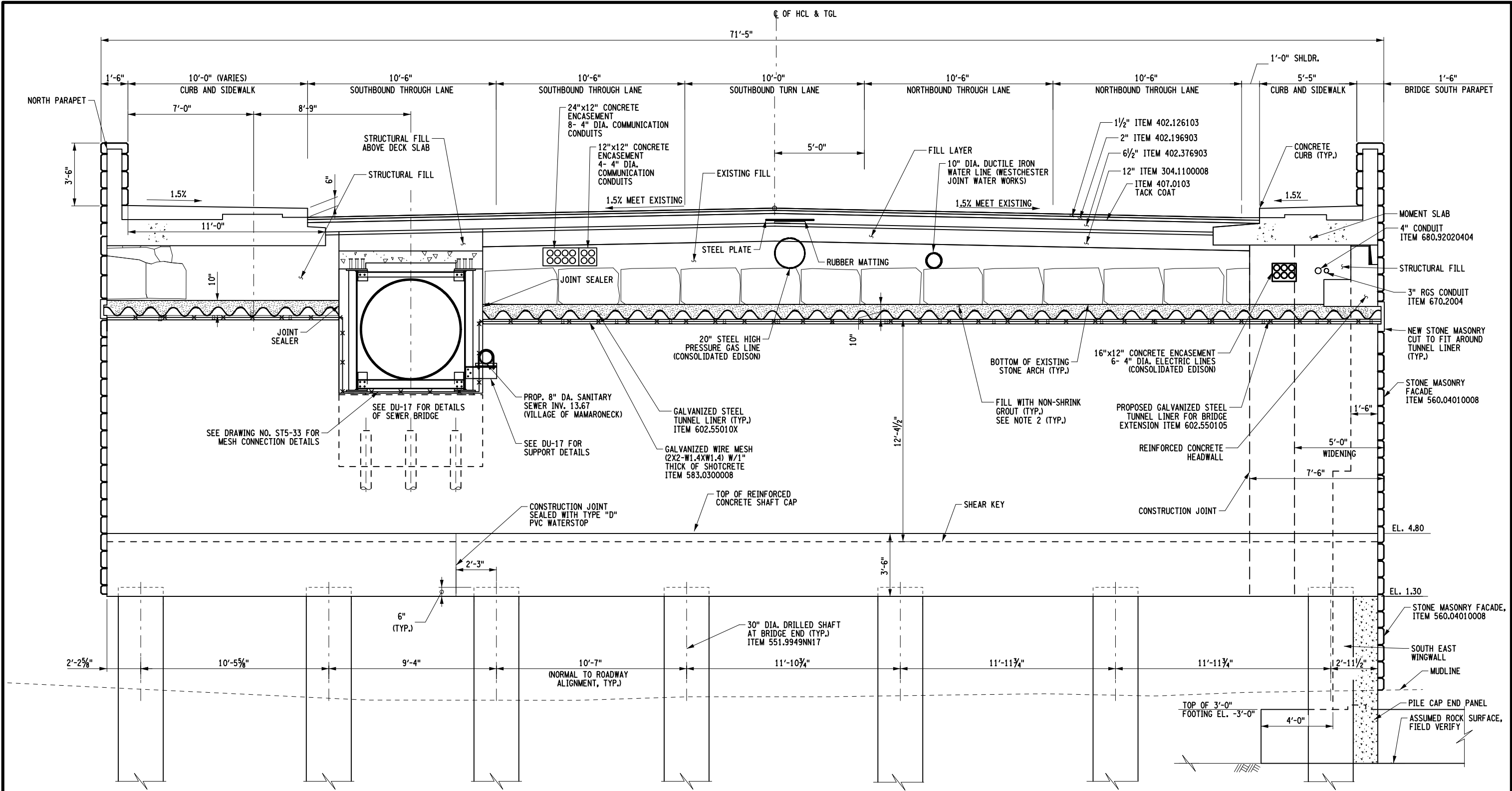
NOTES:

1. NO WINGWALL FOOTING SHOWN FOR CLARITY.
2. SEE DRAWINGS NO. ST5-02 FOR PROPOSED SECTION A-A.
3. NON-SHRINK GROUT SHALL CONFORM TO SECTIONS 701-05 OF NEW YORK STATE DOT STANDARD SPECIFICATIONS, MEET ASTM C1107.

AFFIX SEAL: ON:		ALTERED BY: ON:		DESIGN QUALITY ASSURANCE ENGINEER WSP USA		RFC DESIGN		NOTES:	
		DQAE THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		DATE		DESIGN UNIT: DU16		PIN 8101.46	
				DATE: 07/09/2021		BRIDGES 1000040			
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		US ROUTE 1 ARCH BRIDGE		CULVERTS		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
				OVER MAMARONECK RIVER				BRIDGE TYPICAL SECTION (SHEET 1 OF 2)	
				CITY OF MAMARONECK				US ROUTE 1 OVER MAMARONECK RIVER	
				COUNTY: WESTCHESTER		REGION: 8		DRAWING NO. ST5-06 SHEET NO. 011	
				IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		HALMAR International		McLaren	
						NEW YORK STATE OF OPPORTUNITY		Department of Transportation	

FILE NAME = 847314_gph_00_sec_tpyl_conc_opt.dgn
DATE/TIME = 09-JUL-2021 17:06
USER = r-rozeik

PROJECT MANAGER G. BARTUCCI
CHECK L. ARMENDINGER
DRAFTING J. ISSA & R. ROZEIK
CHECK P. LANTIGUA
DESIGN J. MORALES
JOB MANAGER K. SHAO
DESIGN SUPERVISOR G. BARTUCCI



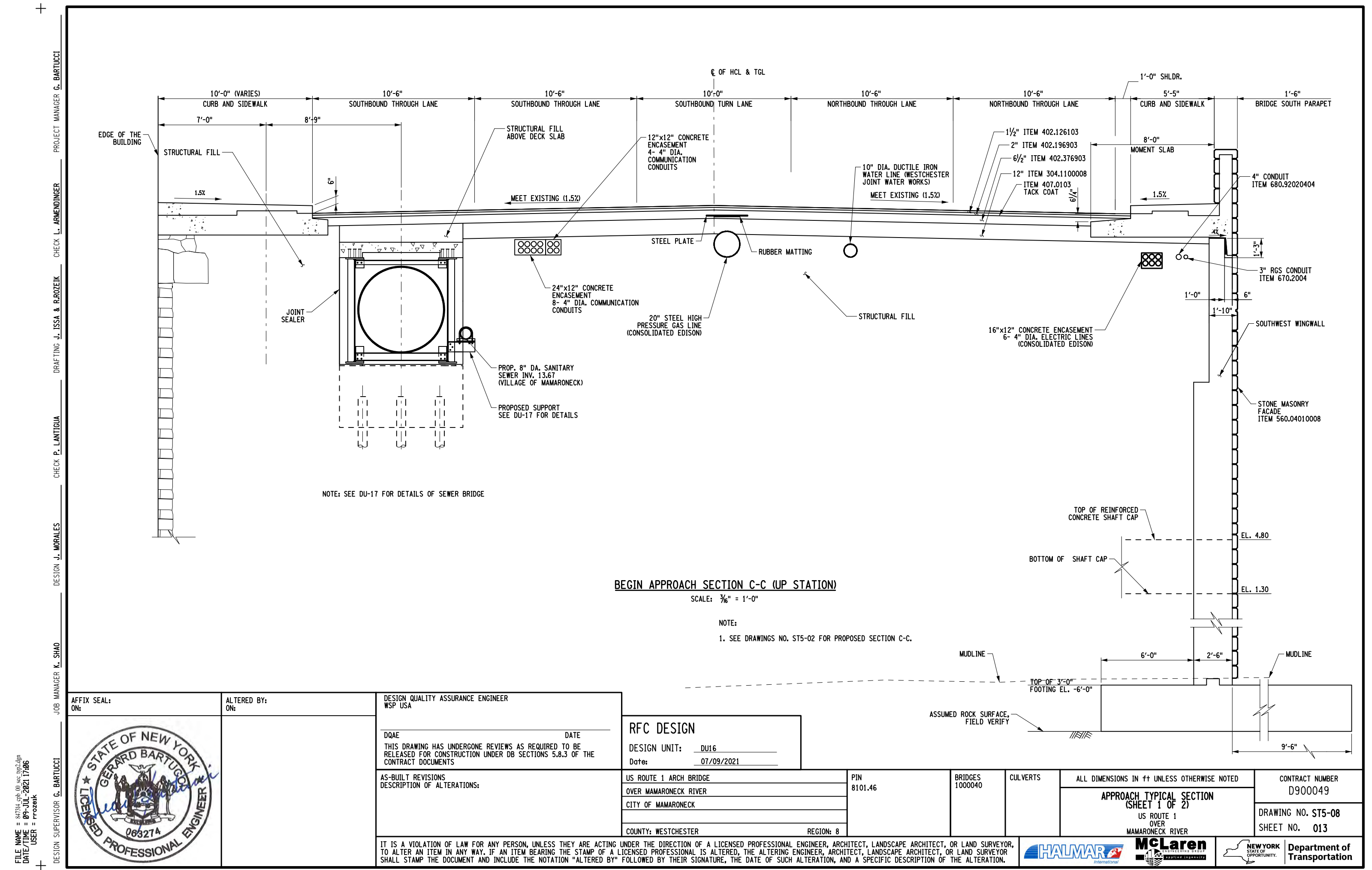
PROPOSED BRIDGE SECTION B-B (UP STATION)

SCALE: 3/8" = 1'-0"

AFFIX SEAL: ON:		ALTERED BY: ON:		DESIGN QUALITY ASSURANCE ENGINEER WSP USA		RFC DESIGN		DESIGN UNIT: DU16		DATE: 07/09/2021		US ROUTE 1 ARCH BRIDGE		PIN 8101.46		BRIDGES 1000040		CULVERTS		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER D900049	
		DATE		THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		CITY OF MAMARONECK		COUNTY: WESTCHESTER		REGION: 8		OVER MAMARONECK RIVER		BRIDGE 1000040		CULVERTS		BRIDGE TYPICAL SECTION (SHEET 2 OF 2) US ROUTE 1 OVER MAMARONECK RIVER		DRAWING NO. ST5-07 SHEET NO. 012	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.																							

NOTE:

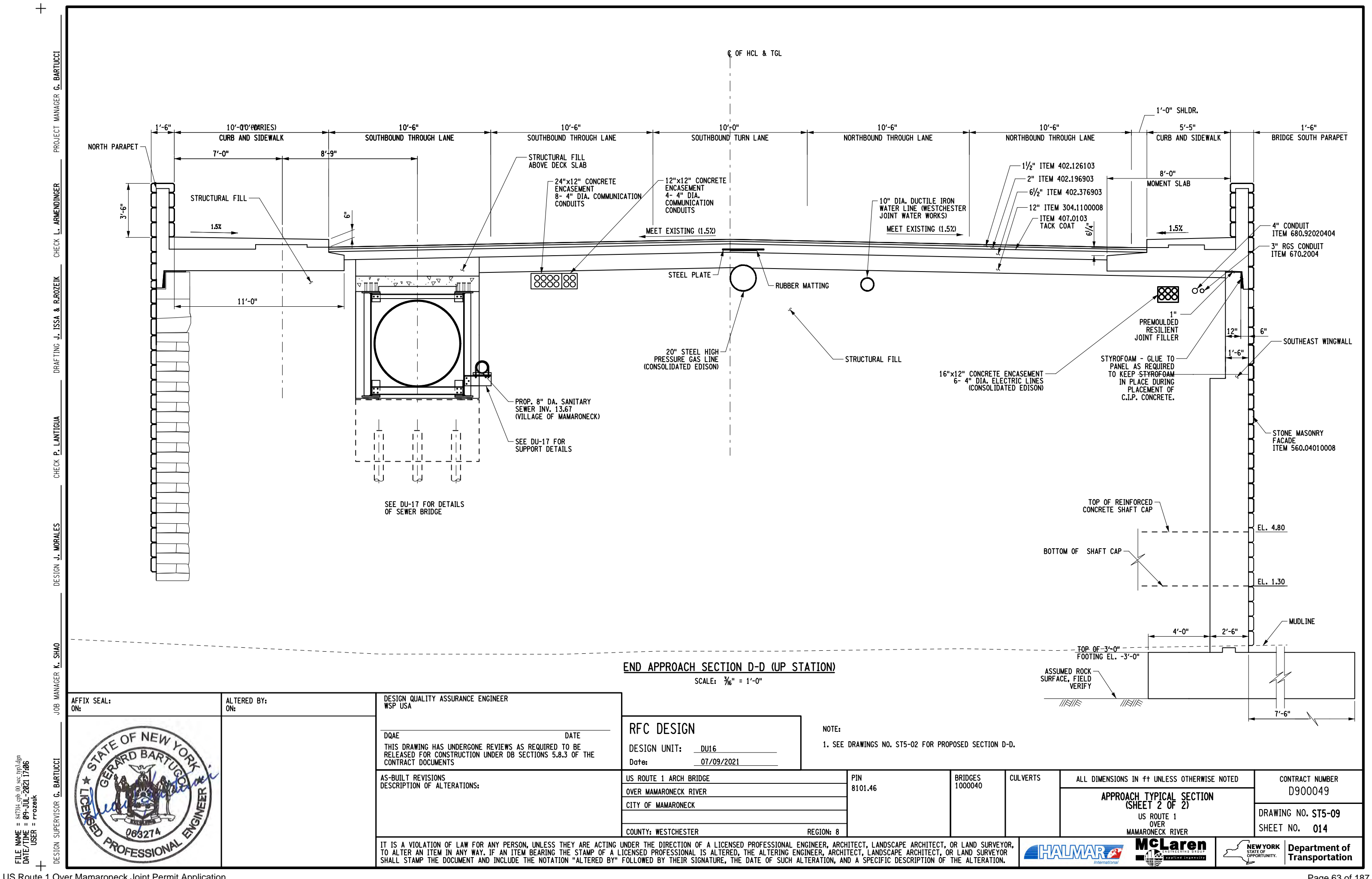
- SEE DRAWINGS NO. ST5-02 FOR PROPOSED SECTION B-B.
- NON-SHRINK GROUT SHALL CONFORM TO SECTIONS 701-05 OF NEW YORK STATE DOT STANDARD SPECIFICATIONS, MEET ASTM C1107.



FILE NAME = 847314_sph_00_sec.dwg
DATE/TIME = 09-JUL-2021 17:06
USER = rrozeik

DESIGN SUPERVISOR G. BARTUCCI
JOB MANAGER K. SHAO
DESIGN J. MORALES
CHECK P. LANTIGUA
DRAFTING J. ISSA & R. ROZEIK
CHECK L. ARMENDINGER
PROJECT MANAGER G. BARTUCCI

AFFIX SEAL: ON:		ALTERED BY: ON:		DESIGN QUALITY ASSURANCE ENGINEER WSP USA		RFC DESIGN		PIN 8101.46		BRIDGES 1000040		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER D900049							
		DQAE		DATE		THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS		DESIGN UNIT: DU16						APPROACH TYPICAL SECTION (SHEET 1 OF 2) US ROUTE 1 OVER MAMARONECK RIVER		DRAWING NO. ST5-08							
		AS-BUILT REVISIONS				DESCRIPTION OF ALTERATIONS:		US ROUTE 1 ARCH BRIDGE								SHEET NO. 013							
								OVER MAMARONECK RIVER															
								CITY OF MAMARONECK															
								COUNTY: WESTCHESTER		REGION: 8													
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																		Department of Transportation					



PROJECT MANAGER G. BARTUCCI
CHECK L. ARMENDINGER
DRAFTING J. ISSA & R. ROZEIK
CHECK P. LANTIGUA
DESIGN J. MORALES
JOB MANAGER K. SHAO
DESIGN SUPERVISOR G. BARTUCCI

FILE NAME = 847314.dgn
DATE/TIME = 09-JUL-2021 17:06
USER = rrozeik

AFFIX SEAL:
ON:

ALTERED BY:
ON:

DESIGN QUALITY ASSURANCE ENGINEER
WSP USA

DATE

THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

RFC DESIGN

DESIGN UNIT: DU16

Date: 07/09/2021

US ROUTE 1 ARCH BRIDGE

OVER MAMARONECK RIVER

CITY OF MAMARONECK

COUNTY: WESTCHESTER

REGION: 8

PIN

8101.46

BRIDGES

1000040

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

APPROACH TYPICAL SECTION
(SHEET 2 OF 2)

US ROUTE 1
OVER
MAMARONECK RIVER

CONTRACT NUMBER

D900049

DRAWING NO. ST5-09

SHEET NO. 014

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

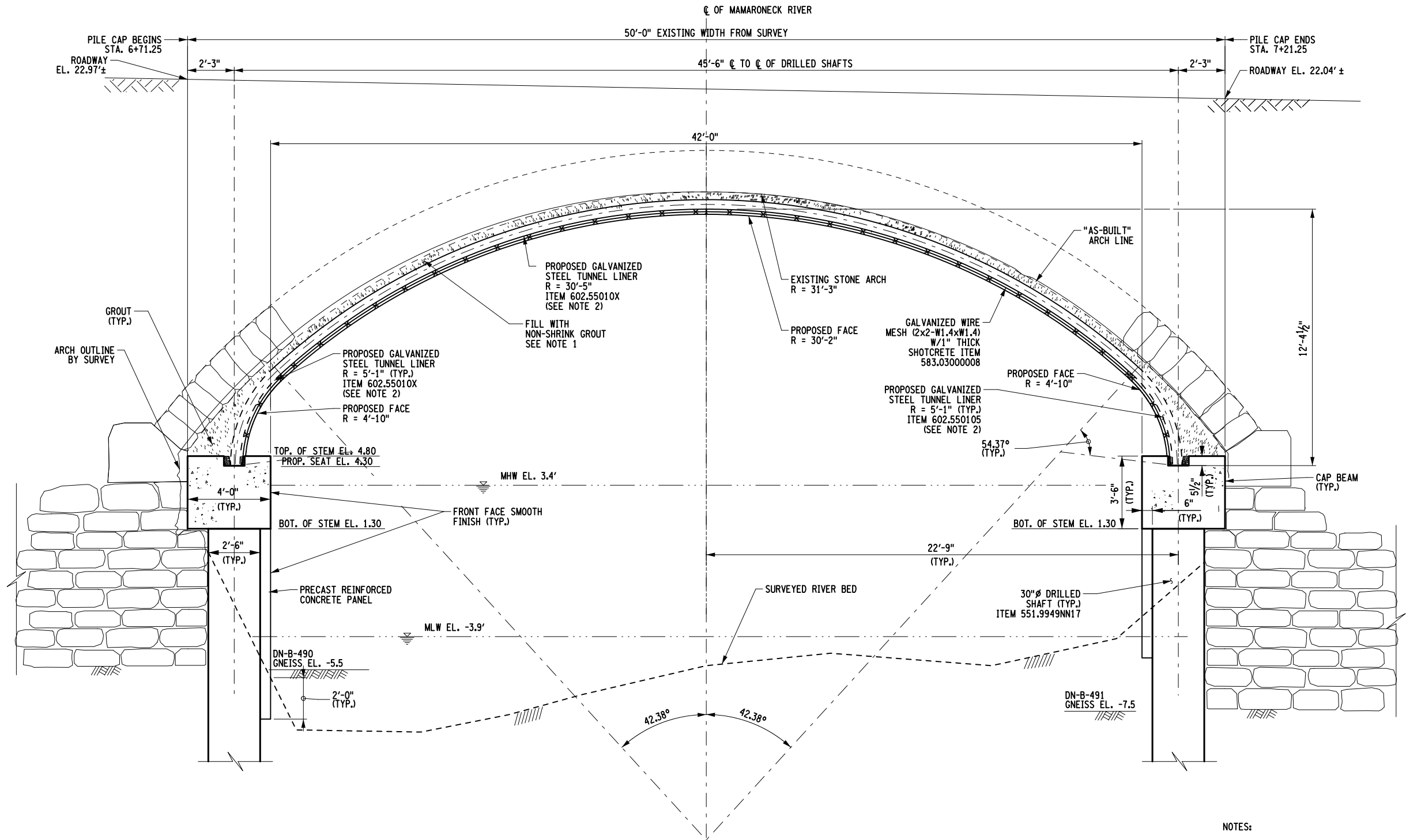
HALMAR

NOTE:

1. SEE DRAWINGS NO. ST5-02 FOR PROPOSED SECTION D-D.

FILE NAME = 847314_sph_00_sec_hypsopt_CL.shad.dgn
DATE/TIME = 09-JUL-2021 17:06
USER = r-rozeik

PROJECT MANAGER G. BARTUCCI
CHECK L. ARMENDINGER
DRAFTING J. ISSA & R. ROZEIK
CHECK P. LANTIGUA
DESIGN J. MORALES
JOB MANAGER K. SHAO



PROPOSED CENTERLINE SECTION
FACING NORTH

SCALE: $\frac{3}{16}$ " = 1'-0"

NOTES:

1. NON-SHRINK GROUT SHALL CONFORM TO SECTIONS 701-05 OF NEW YORK STATE DOT STANDARD SPECIFICATIONS, MEET ASTM C1107.
2. ALL COMPOUND ARCH RADII AND THEIR CORRESPONDING ANGLES ARE ASSOCIATED WITH THE ARCH SECTION THAT IS NORMAL TO THE ABUTMENTS.
3. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
4. CIRCUMFERENTIAL PLATE LENGTHS ARE IN TERMS OF S = 16 INCHES.
5. SEWER BRIDGE IS NOT SHOWN FOR CLARITY.
6. ALL OTHER HORIZONTAL DIMENSIONS ARE ALONG WITH THE ROADWAY ALIGNMENT.

AFFIX SEAL: ON:	ALTERED BY: ON:	DESIGN QUALITY ASSURANCE ENGINEER WSP USA	RFC DESIGN				PIN 8101.46		BRIDGES 1000040	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900049
		DQAE _____ DATE _____	DESIGN UNIT: DU16		US ROUTE 1 ARCH BRIDGE OVER MAMARONECK RIVER CITY OF MAMARONECK COUNTY: WESTCHESTER REGION: 8					PROPOSED BRIDGE ELEVATION TUNNEL LINER US ROUTE 1 OVER MAMARONECK RIVER	DRAWING NO. ST5-10 SHEET NO. 015	
		THIS DRAWING HAS UNDERGONE REVIEWS AS REQUIRED TO BE RELEASED FOR CONSTRUCTION UNDER DB SECTIONS 5.8.3 OF THE CONTRACT DOCUMENTS	Date: 07/09/2021									
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:										
		IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.										

