

FILE NAME = FILE: p:\APP\BRIIUS.corp\pbnrnet\projectwise\prod\Documents\BRIARCLIFF\PROJECTS\WSP_Civil_Group\Town of Yorktown\CommonDrawings\3_CADD\MicroStation\ContractDwg\8761_cph_rmd.dgn
 DATE/TIME = DATE: 3/2/2020 11:20:11 AM
 USER = PLOTTED BY: USJ504206

PROJECT MANAGER DW
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 DESIGN SUPERVISOR MM

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LEGEND - LINE

	ABUTTERS LOT LINE
	PROPERTY LINE
	EASEMENT
	HIGHWAY BOUNDARY
	METAL/CHAIN LINK FENCE
	WIRE FENCE
	WOOD/PLASTIC FENCE
	SEWER LINE
	DRAIN LINE
	WATER LINE
	GAS LINE
	UNDERGROUND ELECTRIC
	UNDERGROUND CABLE
	TELEPHONE LINE
	OVERHEAD WIRES
	STONE WALL
	TREE LINE
	INTERMEDIATE CONTOURS
	INDEX CONTOURS
	WETLAND LINE

LEGEND - SYMBOL

	X-CUT		SIGN (SINGLE POSTED)
	CONCRETE/STONE BOUND		SIGN (DOUBLE POSTED)
	DRILL HOLE		TRAFFIC SIGNAL
	DISK		POST
	IRON PIPE FOUND		MONITORING WELL
	IRON ROD FOUND		MAILBOX
	AIR CONDITIONER		LIGHT POLE
	UNKNOWN MANHOLE		BOLLARD
	AREA DRAIN		HANDICAP PARKING
	ROUND CATCH BASIN		FIRE DEPARTMENT CONNECTION
	CATCH BASIN		FLAG POLE
	DOUBLE CATCH BASIN		BENCHMARK
	CULVERT		VALVE
	DRAIN MANHOLE		VENT
	SEWER MANHOLE		
	ELECTRIC BOX		
	ELECTRIC HANDHOLE		
	ELECTRIC METER		
	ELECTRIC MANHOLE		
	GAS METER		
	GAS MANHOLE		
	GAS VALVE		
	CABLE BOX		
	CABLE MANHOLE		
	TELEPHONE BOX		
	TELEPHONE MANHOLE		
	WATER MANHOLE		
	WATER GATE		
	IRRIGATION CONTROL VALVE		
	FIRE HYDRANT		
	UTILITY POLE WITH RISER		
	UTILITY POLE		
	UTILITY POLE WITH LIGHT		
	UTILITY POLE WITH LIGHT AND RISER		
	UTILITY WITH RISER AND TRANSFORMER		
	DECIDUOUS TREE		
	CONIFER TREE		
	SHRUB		

ABBREVIATIONS

TBM	TEMPORARY BENCHMARK
EOP	EDGE OF PAVEMENT
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
WC	WOOD CURB
CC	CONCRETE CURB
BC	BITUMINOUS CURB
SGC	SLOPED GRANITE CURB
VGC	VERTICAL GRANITE CURB
LSA	LANDSCAPED AREA
FFE	FINISHED FLOOR ELEVATION
SRW	STONE RETAINING WALL
CRW	CONCRETE RETAINING WALL
WRW	WOOD RETAINING WALL
BRW	BRICK RETAINING WALL
SWL	SINGLE WHITE LINE
SYL	SINGLE YELLOW LINE
DLW	DASHED LINE WHITE
DLY	DASHED LINE YELLOW
DYL	DOUBLE YELLOW LINE
DWL	DOUBLE WHITE LINE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
CI	CAST IRON
INV.	INVERT

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					DRAWING NO. INDEX
	TOWN OF YORKTOWN					SHEET NO. 2
COUNTY: WESTCHESTER	REGION: 8					
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ESTIMATE OF QUANTITIES - HILL BOULEVARD

ITEM NO.	DESCRIPTION	UNIT	PIN QUANTITY
201.06	CLEARING AND GRUBBING	LS	0.5
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	660
203.03	EMBANKMENT IN PLACE	CY	640
203.21	SELECT STRUCTURE FILL	CY	920
203.25	SAND BACKFILL	CY	9
205.0402	LABORATORY ANALYSIS FOR HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTIC	EA	1
205.0403	LABORATORY ANALYSIS FOR IGNITIBILITY	EA	1
205.0406	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (GASOLINE RANGE ORGANICS)	EA	1
205.0407	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE ORGANICS)	EA	1
206.01	STRUCTURE EXCAVATION	CY	2480
206.05	TEST PIT EXCAVATION	EA	2
206.0201	TRENCH AND CULVERT EXCAVATION	CY	220
207.20	GEOTEXTILE BEDDING	SY	400
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	168
209.13	SILT FENCE - TEMPORARY	LF	100
304.1100008	SUBBASE COURSE (MODIFIED)	CY	407
402.128103	12.5 F1 TOP COURSE HMA, 80 SERIES COMPACTION	TON	90
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	140
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	280
407.0103	STRAIGHT TACK COAT	GAL	70
552.17	SHIELDS AND SHORING	SF	600
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1
555.08	FOOTING CONCRETE, CLASS HP	CY	350
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	31000
562.0101	REINFORCED CONCRETE SPAN UNITS	SY	270
562.03	WINGWALL WITH FOOTING	SY	136
564.0501	STRUCTURAL STEEL, TYPE 1	LS	1
568.51	STEEL BRIDGE RAIL (FOUR RAIL)	LF	72
568.70	TRANSITION BRIDGE RAILING	LF	128
595.5000018	SHEET APPLIED WATERPROOFING MEMBRANE	SF	64
603.6005	REINFORCED CONCRETE PIPE CLASS III, 24 INCH DIAMETER	LF	65
603.7305	REINFORCED CONCRETE PIPE END SECTIONS, 24 INCH DIAMETER	EA	1
603.99010008	TRASH RACK	EA	1
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60	LF	8
606.120101	BOX BEAM END PIECE	EA	4
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	140
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	20
609.0901	OPTIONAL CURB (PRECAST TYPE PVF150 OR CAST-IN-PLACE TYPE VF1 50 OR GRANITE TYPE C)	LF	362
609.2201	UNPAINTED HOT MIX ASPHALT CURB (MOUNTABLE)	LF	330
610.1402	TOPSOIL - ROADSIDE	CY	69
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	615
614.060202	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREST HEIGHT - STUMPS CUT FLUSH	EA	5
614.060302	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREST HEIGHT - STUMPS CUT FLUSH	EA	2
614.060402	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREST HEIGHT - STUMPS CUT FLUSH	EA	3
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	6
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	0.8
619.04	TYPE III CONSTRUCTION BARRICADE	EA	8
619.110511	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) STANDARD SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENT SPEC, NO CELLULAR COM REQ	EA	3
619.1701	TEMPORARY CONCRETE BARRIER (UNPINNED)	LF	154
620.04	STONE FILLING (MEDIUM)	CY	110
623.12	CRUSHED STONE (IN PLACE MEASURE)	CY	120
625.01	SURVEY OPERATIONS	LS	0.8
627.50140008	CUTTING PAVEMENT	LF	130
637.11	ENGINEERS FIELD OFFICE - TYPE 1	MNTH	7
650.1010	TRENCHLESS INSTALLATION OF CASING PIPE UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 24" (10" DIAMETER)	LF	115
650.1012	TRENCHLESS INSTALLATION OF CASING PIPE UNDER HIGHWAY WITH A DIAMETER LESS THAN OR EQUAL TO 24" (12" DIAMETER)	LF	115
655.1202	MANHOLE FRAME AND COVER	EA	1
660.21100008	FURNISH & INSTALL STEEL CASING 10"	LF	50

660.21120008	FURNISH & INSTALL STEEL CASING 12"	LF	50
660.70000004	MAINTENANCE OF SANITARY SEWER FLOWS	LS	1
663.0106	6" DUCTILE IRON CEMENT LINED WATER PIPE	FT	6
663.0112	12" DUCTILE IRON CEMENT LINED WATER PIPE	FT	160
663.1006	6" RESILIENT WEDGE GATE VALVE & VALVE BOX	EA	1
663.1212	12" DOUBLE DISK GATE VALVE & VALVE BOX	EA	2
663.1301	HYDRANT	EA	1
663.2001	IRON WATER MAIN FITTINGS (3" - 8")	LB	19.2
663.2002	IRON WATER MAIN FITTINGS (10" - 16")	LB	1536
663.42	REMOVE AND DISPOSE OF EXISTING WATER VALVE & VALVE BOX	EA	1
663.43	REMOVE AND DISPOSE OF EXISTING HYDRANT	EA	1
664.01060004	DUCTILE IRON SEWER PIPE & FITTINGS, 6"	LF	130
664.01080004	DUCTILE IRON SEWER PIPE & FITTINGS, 8"	LF	130
664.01100004	DUCTILE IRON SEWER PIPE & FITTINGS, 10"	LF	175
664.05160003	BRIDGE MOUNTING OF SEWER PIPE, 16"	LF	42
664.40480006	PRECAST SANITARY SEWER MANHOLE (48" DIA)	LF	18
680.94010003	WATERTIGHT DISCONNECT BOX - NEMA 4X	EA	2
683.08020104	3G/4G LTE GATEWAY MODEM WITH ANTENNA	EA	2
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	91

ITEM NO.	DESCRIPTION	UNIT	PIN QUANTITY
201.06	CLEARING AND GRUBBING	LS	0.5
202.19	REMOVAL OF SUBSTRUCTURES	CY	1
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	130
203.03	EMBANKMENT IN PLACE	CY	250
203.21	SELECT STRUCTURE FILL	CY	510
203.25	SAND BACKFILL	CY	6
205.0402	LABORATORY ANALYSIS FOR HAZARDOUS WASTE RCRA TOXICITY CHARACTERISTIC	EA	1
205.0403	LABORATORY ANALYSIS FOR IGNITIBILITY	EA	1
205.0406	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (GASOLINE RANGE ORGANICS)	EA	1
205.0407	LABORATORY ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE ORGANICS)	EA	1
206.01	STRUCTURE EXCAVATION	CY	1080
206.0201	TRENCH AND CULVERT EXCAVATION	CY	80
207.2	GEOTEXTILE BEDDING	SY	210
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	84
209.13	SILT FENCE - TEMPORARY	LF	100
304.1100001	SUBBASE COURSE (MODIFIED)	CY	230
402.128103	12.5 F1 TOP COURSE HMA, 80 SERIES COMPACTION	TON	62
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	104
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	207
407.0103	STRAIGHT TACK COAT	GAL	50
552.15	INTERIM STEEL SHEETING	SF	120
553.030002	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	5
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	1100
562.03	WINGWALL WITH FOOTING	SY	48
568.51	STEEL BRIDGE RAIL (FOUR RAIL)	LF	44
568.70	TRANSITION BRIDGE RAILING	LF	128
595.50000018	SHEET APPLIED WATERPROOFING MEMBRANE	SF	40
603.6003	REINFORCED CONCRETE PIPE CLASS III, 18 INCH DIAMETER	LF	60
603.63180915	PRECAST CONCRETE BOX CULVERT (FILL HEIGHT LESS THAN 24 IN) 18 FOOT SPAN, 9 FOOT RISE	LF	55
603.77	CONCRETE COLLARS	EA	1
606.120101	BOX BEAM END PIECE	EA	4
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	140
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	14
609.0101	STONE CURB (TYPE A)	LF	30
609.0901	OPTIONAL CURB (PRECAST TYPE PVF150 OR CAST-IN-PLACE TYPE VF1 50 OR GRANITE TYPE C)	LF	180
610.1402	TOPSOIL - ROADSIDE	CY	53
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	320
614.060202	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREST HEIGHT - STUMPS CUT FLUSH	EA	2
614.060402	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREST HEIGHT - STUMPS CUT FLUSH	EA	1
615.01010108	MATERIAL FOR STREAM BED ESTABLISHMENT	CY	70
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	0.2
619.04	TYPE III CONSTRUCTION BARRICADE	EA	6
619.110511	PORTABLE, VARIABLE MESSAGE SIGN (PVMS) STANDARD SIZE - FULL MATRIX (LED) NO OPTIONAL EQUIPMENT SPEC, NO CELLULAR COM REQ	EA	3
619.1701	TEMPORARY CONCRETE BARRIER (UNPINNED)	LF	60
620.04	STONE FILLING (MEDIUM)	CY	60
623.12	CRUSHED STONE (IN PLACE MEASURE)	CY	50
625.01	SURVEY OPERATIONS	LS	0.2
627.50140001	CUTTING PAVEMENT	LF	150
647.41	REMOVE AND STORE SIGN PANEL, SIGN ASSEMBLY SIZE I (UNDER 30 SQUARE FEET)	EA	1
660.21160008	FURNISH & INSTALL STEEL CASING 16 NPS (OUTSIDE DIAMETER)	LF	35
663.0112	12" DUCTILE IRON CEMENT LINED WATER PIPE	FT	100
663.1212	12" DOUBLE DISK GATE VALVE & VALVE BOX	EA	2
663.2002	IRON WATER MAIN FITTINGS (10" - 16")	LB	960
680.94010003	WATERTIGHT DISCONNECT BOX - NEMA 4X	EA	1
683.08020104	3G/4G LTE GATEWAY MODEM WITH ANTENNA	EA	1
685.11	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	90
685.12	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	300

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PROJECT MANAGER DW

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JOB MANAGER DW

DESIGN SUPERVISOR MM

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	
PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	
BRIDGES CULVERTS	
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED ESTIMATE OF QUANTITIES	
CONTRACT NUMBER DRAWING NO. EQQ SHEET NO. 3	

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 DATE/TIME = DATE: 3/2/2020 11:20:18 AM
 USER = PLOTTED BY: USJ04206

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GENERAL NOTES:

- DESIGN SPECIFICATION: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF JANUARY 2020. (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS, F'c = 3000 PSI.
- LIVE LOAD: AASHTO HL-93 AND NYS DOT DESIGN PERMIT VEHICLE.
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 1, 2019, WITH CURRENT ADDITIONS AND MODIFICATIONS.
- DETAILS ON THE DRAWINGS LABELED "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURAL FILL.
- THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS IN THE CONTRACT, UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE ATTACHED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REMOUNT IT AFTER CONSTRUCTION IS COMPLETED.
- CONTRACTOR OPERATIONS SHALL BE RESTRICTED TO THE WORK ZONE BOUNDED BY THE CONCRETE BARRIER.
- NO PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES, ON THE PLANS, OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY AN ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.
- MANUAL OF TRAFFIC CONTROL DEVICES OR AS MODIFIED BY THE ENGINEER TO TEMPORARY TRAFFIC CONTROL DEVICES SHALL COMPLY WITH NEW YORK STATE MAINTENANCE AND PROTECTION OF TRAFFIC PROCEDURES AND ALL SUIT FIELD CONDITIONS.
- ALL REINFORCING STEEL TO BE EPOXY COATED.
- THIS BRIDGE AND CULVERT SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL: THE MAINTENANCE AND MANAGEMENT OF ROADWAYS AND BRIDGES.
- NO RECORD PLANS FOR THESE STRUCTURES ARE AVAILABLE AT THE TOWN OF YORKTOWN DPW OFFICE.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS AND DIMENSIONS WITH THOSE SHOWN IN THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN IN THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. ALL FIELD CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS AND SUBMITTED FOR APPROVAL.
- IN CASE OF DISCREPANCY, THE CONTRACTOR SHALL USE FIELD MEASURED DIMENSIONS TO MAKE APPROPRIATE CHANGES OF DETAILS SHOWN IN CONTRACT PLANS AND SHALL SUBMIT SHOP/WORKING DRAWINGS TO THE ENGINEER FOR APPROVAL AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL SCHEDULE AND COORDINATE WORK OPERATIONS WITH THE VARIOUS COMPANIES AND AGENCIES WHOSE UTILITIES AND OTHER FACILITIES MAY BE AFFECTED BY THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS REQUIRED, AND IN A TIMELY MANNER TO AVOID ANY DELAY OF WORK ON THE PROJECT.
- CONDUIT CAUTION NOTE:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONDUITS ARE PRESENT IN OR ABOVE THE CULVERTS. THEIR EXISTENCE AND LOCATIONS SHALL BE FIELD VERIFIED. IF CONDUITS ARE PRESENT AND ARE ENCOUNTERED DURING CONSTRUCTION OPERATIONS, CARE SHALL BE EXERCISED NOT TO DAMAGE CONDUITS, EXPANSION COUPLINGS, OR CONTENTS OF CONDUITS. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE TOWN.
- TREE CLEARING SHALL ONLY OCCUR FROM OCTOBER 1 TO MARCH 31.

WATERWAY DIVERSION STRUCTURE NOTES:

- THE INTENT OF A WATERWAY DIVERSION STRUCTURE IS TO TEMPORARILY DIVERT OR PUMP WATER AROUND AN AREA (STREAM WORK AREA) SO THAT EXCAVATION OR OTHER WORK CAN BE ACCOMPLISHED. ITS PRIMARY PURPOSE IS TO PROVIDE WATER QUALITY PROTECTION. IT IS NOT INTENDED TO BE A SUBSTITUTION FOR OR EQUAL TO A COFFERDAM.
- STREAM FLOW IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION. THIS MAY BE ACCOMPLISHED BY DIVERTING FLOW AROUND THE STREAM WORK AREA (E.G. USING TEMPORARY PIPES), DIVERTING WATER THROUGH THE STREAM WORK AREA (E.G. USING TEMPORARY PIPES), OR BY PUMPING FLOW AROUND OR THROUGH THE STREAM WORK AREA. MATERIALS USED FOR THE DIVERSION SHALL CONFORM TO SECTION 553-2 OF THE NYS STANDARD SPECIFICATIONS. PAYMENT FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE SHALL BE MADE UNDER THE UNIT PRICE BID FOR ITEMS 553.03000X.
- DIVERTED STREAM FLOW SHALL NOT BE DIRECTED TO OR THROUGH UNSTABILIZED AREAS.
- ONLY ONE PAYMENT SHALL BE MADE FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE, EVEN IF THE CONTRACTOR ELECTS TO INSTALL MULTIPLE DIVERSION STRUCTURES AT THE SITE. THE COST OF ADJUSTING, MOVING OR EXTENDING THE TEMPORARY WATERWAY DIVERSION STRUCTURE DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS 553.03000X.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE SIZE, LOCATION, MATERIALS AND SUITABILITY OF THE WATERWAY DIVERSION STRUCTURE FOR THE INTENDED WORK OPERATION AND FOR MAINTAINING CONTINUOUS FLOW THROUGH OR AROUND THE STREAM WORK AREA. AT LEAST 35 CALENDAR DAYS PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THREE COPIES OF THE TEMPORARY WATERWAY DIVERSION STRUCTURE PLAN TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
- IF THE CONTRACTOR PROPOSES A WATER DIVERSION METHOD WHICH INVOLVES THE PUMPING OF STREAM WATER, ALL WATER INTAKE HOSES SHALL BE SCREENED TO PROTECT AQUATIC LIFE. THE SCREEN OPENING SIZE SHALL BE NO LARGER THAN 1/4 INCH SQUARE.
- THE CONTRACTOR MAY NEED TO INSTALL MATERIALS DOWNSTREAM OF THE STREAM WORK AREA TO PREVENT DIVERTED STREAM WATER FROM BACKFLOWING INTO THE WORK AREA. THE CONTRACTOR MAY ALSO NEED TO INSTALL MATERIALS TO PREVENT GROUNDWATER, STORMWATER, OR PRECIPITATION THAT ENTERS THE STREAM WORK AREA FROM EXITING THE WORK AREA IN A TURBID CONDITION. MATERIALS NECESSARY TO ACCOMPLISH THIS SHALL BE PAID FOR UNDER THE WATER DIVERSION ITEM 553.030001.
- NON-TURBID STORMWATER MAY BE DIRECTED AROUND THE STREAM WORK AREA AS LONG AS IT REMAINS NON-TURBID BEFORE ENTERING THE STREAM. MATERIALS NECESSARY TO ACCOMPLISH THIS SHALL BE PAID FOR UNDER THE WATER DIVERSION ITEM 553.030001.
- DEWATERING OF THE STREAM WORK AREA SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS SAND BAGS OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED. DEWATERING OF STREAM WORK AREAS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE, ITEM 553.030001.
- DEWATERING OPERATIONS SHALL NOT DISCHARGE, EITHER DIRECTLY OR INDIRECTLY, TO ANY WATERBODIES UNLESS THE DISCHARGE WATER IS AT LEAST AS FREE AND CLEAR OF SEDIMENT AS THE ADJACENT WATERBODY.
- IF THE CONTRACTOR ELECTS TO LAY BACK AN EXCAVATION THAT IS ADJACENT TO THE TEMPORARY WATERWAY DIVERSION STRUCTURE, ANY REQUIRED EXTENSION OR ADJUSTMENT OF THE DIVERSION STRUCTURE TO PREVENT WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN.
- IF THE CONTRACTOR ELECTS TO USE WATER FROM THE STREAM FOR CONSTRUCTION PURPOSES, ALL WATER INTAKE HOSES SHALL BE SCREENED TO PROTECT AQUATIC LIFE. THE SCREEN OPENING SIZE SHALL BE NO LARGER THAN 1/4 INCH SQUARE. THE WITHDRAWAL OF WATER SHALL NOT CAUSE A DECREASE IN WATER ELEVATION AT THE INTAKE SITE OR DOWNSTREAM OF THE SITE. WATER WITHDRAWAL FOR CONSTRUCTION PURPOSES, IF REQUIRED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE TEMPORARY WATERWAY DIVERSION STRUCTURE - ITEM 553.030001

CULVERT NOTE:

- THE DETAILS SHOWN FOR THE CULVERT BARREL ARE BASED ON THE ASSUMPTION THAT THE WATER IN THE STREAM CHANNEL WILL BE DIVERTED, PUMPED, OR CARRIED IN A FLUME DURING THE ENTIRE CONSTRUCTION OF THE BARREL. SHOULD THE CONTRACTOR DESIRE TO DIVERT THE WATER THROUGH OTHER MEANS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, THE CONSTRUCTION PROCEDURE AND SKETCHES SHOWING THE LOCATION OF THE PROPOSED CONSTRUCTION AND CONTRACTION JOINTS AND THE CHANGES IN THE BAR REINFORCEMENT DETAILS.

STREAM PROTECTION NOTES:

- THE FOLLOWING ENVIRONMENTAL CLASSIFICATIONS ARE NOTED FOR EACH OF THESE TWO PROJECT SITES:
HILL BOULEVARD: BARGER BROOK TRIBUTARY IS CLASSIFIED AS A CLASS C WATERBODY AT THIS LOCATION AND IS LOCATED WITHIN THE 100' BUFFER OF A STATE REGULATED FRESHWATER WETLAND. THE WORK IN THIS WATERBODY IS AUTHORIZED BY NYSDEC GENERAL PERMIT GP-3-18-001, WHICH HAS BEEN OBTAINED FOR THIS PROJECT, AND A USACE NATIONWIDE PERMIT #3 - MAINTENANCE.
VETERANS ROAD: HALLOCKS BILL BROOK IS CLASSIFIED AS A CLASS C WATERBODY AT THIS LOCATION. THE WORK IN THIS WATERBODY IS AUTHORIZED BY A USACE NATIONWIDE PERMIT #3 - MAINTENANCE.
 THE BOUNDARIES OF THE FEDERAL JURISDICTIONAL WETLANDS AND/OR LOCATIONS OF WATERBODIES ARE DEPICTED ON THESE PLANS. NO CONSTRUCTION ACTIVITIES (INCLUDING BUT NOT LIMITED TO GRADING, FILLING, EXCAVATING, CLEARING, STOCKPILING, STORING, OR STAGING) SHALL BE PERMITTED WITHIN THESE AREAS EXCEPT AS DESCRIBED IN THESE PLANS, SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER. ANY WORK IN THE WATERBODY OR WETLAND AREAS NOT SHOWN ON THE PLANS SHALL NOT BE PERFORMED WITHOUT FIRST CONTACTING THE ENGINEER.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENTATION OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. NO WATER SHALL BE RETURNED DIRECTLY TO THE STREAM WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THE WATER TO BE CONTAMINATED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES THE WATER FROM ANY STREAM, THEY SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM AS REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND SUSTAIN FISH LIFE DOWNSTREAM.
- THE EXISTING STREAMBED SHALL NOT BE DISTURBED BEYOND THE LIMITS OF THE TEMPORARY WATERWAY DIVERSION STRUCTURE. THE TEMPORARY WATERWAY DIVERSION STRUCTURE SHOULD BE SIZED WITH REGARD TO THE SEASONAL FLOW OF THE STREAM.
- DEWATERING OF THE AREA SHALL BE ACCOMPLISHED AS SHOWN IN THE PLANS. CLEAN WATER MAY BE PUMPED DIRECTLY INTO THE DOWN GRADIENT STREAM CHANNEL. TURBID WATER SHALL BE DISCHARGED TO AN APPROVED UPLAND VEGETATED AREA OR A PORTABLE SETTLING DEVICE, WITH SEDIMENT FILTER BAGS OUTSIDE OF THE STREAMBED FOR TREATMENT BEFORE DISCHARGING BACK TO THE STREAM. ADDITIONAL TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS FILTER TANKS, HAY BALES OR APPROVED EQUALS, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

REMOVAL / RECONSTRUCTION NOTES:

- EXISTING STRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 206.01 IN THE BRIDGE ESTIMATE.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE, 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.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE TOWN.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

WATER SUPPLY NOTES:

- ALL WATER MAINS SHALL BE CEMENT-LINED CLASS 54 DUCTILE IRON PIPE, SEAL COATED AND PUSH-ON JOINT WITH TYTON JOINTS AND GASKETS, UNLESS OTHERWISE SHOWN OR SPECIFIED.
- ALL WATER MAINS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT, PAID FOR UNDER EACH RESPECTIVE PIPE ITEM.
- ALL TEES, BENDS, ELBOWS, FITTINGS AND DEAD ENDS SHALL BE INSTALLED WITH JOINT RESTRAINT USING MEGA LUG OR APPROVED EQUAL. PUSH-ON TYTON JOINTS AND GASKETS ARE TO BE USED ON ALL PIPE SECTIONS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE THRUST BLOCKS, TIE-RODS, AND OTHER APPROVED MEANS FOR PREVENTING MOVEMENT AT JOINTS, HORI
- DISINFECTION AND TESTING OF NEWLY INSTALLED WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C651-05 OR LATEST EDITION EXCEPT FOR SECTION 4.4.2 AND THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH PERMIT ATTACHED TO THE CONTRACT SPECIFICATIONS. TWO ACCEPTABLE RESULTS OF BACTERIOLOGICAL ANALYSES INCLUDING HETEROTROPHIC PLATE COUNTS AND TOTAL COLIFORM OF WATER SAMPLES ARE TO BE COLLECTED FROM THE NEWLY INSTALLED WATER MAINS AFTER DISINFECTION AND BEFORE USE AT 24 HOUR INTERVALS. NEWLY LINED WATER MAINS, AND UPSTREAM OF SUCH WATER MAINS, SHALL ALSO BE SAMPLED FOR PH AS REQUIRED BY THE DEPARTMENT OF HEALTH. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE DRINKING WATER SAMPLES TO BE DELIVERED TO OR COLLECTED BY A CERTIFIED LABORATORY WITHIN 6 HOURS OF THE SAMPLE COLLECTION. TEST RESULT SHALL BE SUBMITTED TO THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH FOR APPROVAL AND AUTHORIZATION PRIOR TO PLACING THE NEWLY INSTALLED WATER MAINS INTO SERVICE AND COMPLETING THE SERVICE CONNECTIONS.
- FURNISHING AND INSTALLATION OF NEW ADDITIONAL VALVES, WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER, WILL BE PAID FOR UNDER THE BID ITEM FOR THE APPROPRIATE VALVE ITEM. ALL FIRE HYDRANTS SHALL BE REPLACED WITH NEW AT THE SAME LOCATION UNLESS DIRECTED OR SHOWN OTHERWISE.
- THE LOCATIONS OF GATE VALVES AND HYDRANTS AS SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION THE SITE TO VERIFY THE PRECISE LOCATION OF EXISTING GATE VALVES PRIOR TO SUBMITTING HIS BID.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXCAVATIONS FOR REPLACEMENT AND INSTALLATION OF VALVES AND HYDRANTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK THAT CAN BE VERIFIED BY FIELD INSPECTION AND/OR USE OF THE CONTRACT.
- DEPTH OF WATER MAINS VARY, HYDRANT EXTENSIONS SHALL BE PROVIDED BY THE CONTRACTOR (AN DPAID FOR UNDER THE FITTINGS ITEM) WHERE NECESSARY FOR PROPER DEPTH OF BURY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND REPORTING THEM TO THE ENGINEER. HYDRANT EXTENSIONS SHALL BE COMPLETED USING SPOOL PIPE OF APPROPRIATE SIZE AND MEALUG MECHANICAL JOINT RESTRAINTS. WORK SHALL BE COMMENCED ONLY WHEN DIRECTED BY THE ENGINEER.
- ALL NEW HYDRANT ASSEMBLIES SHALL HAVE THRUST BLOCKS. MEGALUS OR APPROVED EQUAL ARE TO BE INSTALLED BETWEEN THE TEE OFF THE WATER MAIN AND THE HYDRANT LATERAL VALVE AND THE HYDRANT BARRLE.
- ALL PROPOSED WATER MAINS SHALL HAVE MINIMUM COVER OF FOUR FEET.
- ALL DIP WATER MAINS AND FITTINGS MUST BE ENCASED IN POLYEHTYLENE SLEEVE PRIOR TO BACKFILL.
- WHERE ORDERED BY THE OWNER, CONTRACTOR SHALL OBTAIN PIPE COUPONS TO VERIFY PIPE IS LINED.
- TOWN OF YORKTOWN WILL EXERCISE THE EXISTING ISOLATION VALVES TO SHUT DOWN WATER MAINS PRIOR TO REPLACEMENT WORK. IF THE ISOLATION VALVES FAIL, BUT FLOW IS MANAGEABLE, CONTRACTOR WILL ATTEMPT TO INSTALL NEW VALVE IN OPEN POSITION BY DEWATERING. IF ISOLATION VALVES ARE INOPERABLE AND/OR FLOW IS EXCESSIVE, CONTRACTOR SHALL INSTALL LINE STOPS OR INSTERTION VALVES AT LOCATIONS APPROVED BY THE OWNER TO FACILITATE INSTALLATION OF THE NEW VALVE. BRACING MUST BE PROVIDED FOR ALL DEAD-END VALVES IN OPEN TRENCH DURING CONSTRUCTION.

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					
	TOWN OF YORKTOWN				GENERAL NOTES 1 OF 2	DRAWING NO. GNN-1
	COUNTY: WESTCHESTER	REGION: 8				SHEET NO. 4
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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RIGHT-OF-WAY NOTES:

- A. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE CURRENT NYSOT STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
- B. IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (CURRENT NYSOT STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- C. IN ACCORDANCE WITH SECTION 107-13 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (CURRENT NYSOT STANDARD SPECIFICATIONS SECTIONS 105-15, 107-13).
- D. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (CURRENT NYSOT STANDARD SPECIFICATIONS SECTION 107-08 AND 107-13).

SURVEY NOTES:

1. THE CONTRACTOR SHALL SURVEY AND STAKEOUT THE BASELINE AND CENTERLINE LOCATIONS AND ALL RIGHT-OF-WAY TAKING (FEE) LINES, PERMANENT OR TEMPORARY EASEMENTS, HIGHWAY BOUNDARY LINES, AND PROPERTY CORNERS DURING THE INITIAL STAGES OF THE PROJECT FOR USE BY THE UTILITY COMPANIES IN THEIR RELOCATION WORK. PAYMENT SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 625.01. THE CONTRACTOR SHALL BE AWARE THAT ALL SURVEY AND STAKEOUT SHALL BE MAINTAINED FOR THE LIFE OF THE PROJECT AND REESTABLISHMENT MAY BE REQUIRED ON MULTIPLE OCCASIONS. THE CONTRACTOR SHALL CONSIDER THIS IN THE BID PRICE FOR ITEM 625.01.

SUBSTRUCTURE NOTES:

1. EXCAVATION BELOW PLANNED FOOTING ELEVATION WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL WILL BE AS DIRECTED BY THE ENGINEER.
2. ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
3. HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03, AND SELECT STRUCTURAL FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
4. EXISTING SUBSTRUCTURE PLANS ARE BASED ON LIMITED FIELD OBSERVATIONS.
5. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND/OR FABRICATION.

SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS:

1. INSTALL DETOUR SIGNAGE AND MPT MEASURES, CLOSE ROADWAY.
2. PERFORM R.O.W. STAKEOUT, CONTACT UTILITIES, AND CLEAR AND GRUB AS NECESSARY TO BEGIN WORK.
3. INSTALL TEMPORARY WATERWAY DIVERSION STRUCTURE.
4. VERIFY LOCATION AND ELEVATION OF EXISTING WATER MAIN, GAS, AND SEWER. ADJUST TEMPORARY WATERWAY DIVERSION STRUCTURE AND ADD WATER TIGHT MEASURES EXCAVATE AND REMOVE EXISTING STRUCTURE AS NECESSARY AS WORK PROCEEDS.
5. PROCEED WITH INSTALLATION OF PROPOSED FOOTINGS/INVERT SLABS.
6. INSTALL 3-SIDED FRAME/BOX CULVERT AND WINGWALLS, BACKFILL, AND PLACE MEDIUM STONE FILL STREAM BANK PROTECTION. REMOVE TEMPORARY WATERWAY DIVERSION STRUCTURE.
7. MILL EXISTING ROADWAY AND INSTALL NEW PAVEMENT. INSTALL GUIDERAIL, SIGNAGE, AND LANDSCAPING.
8. REMOVE DETOUR SIGNAGE AND OPEN BRIDGE TO TRAFFIC.

UTILITY NOTES:

1. THE ACCURACY INDICATED FOR THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE DEFINED AS FOLLOWS:

 QUALITY LEVEL C - RECORD INFORMATION PROVIDED BY UTILITY OWNERS WAS PLOTTED ON THE CONTRACT PLANS, DEPTHS WERE NOT FIELD VERIFIED. PHYSICAL SURFACE FEATURES LIKE MANHOLES, VALVE BOXES AND HYDRANTS HAVE BEEN FIELD LOCATED.

 THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS UNDER SECTIONS 660 THROUGH 680 OF THE STANDARD SPECIFICATIONS, NOR DOES IT RELIEVE THE UTILITY OWNERS OF THEIR OBLIGATION TO ACCURATELY LOCATE THEIR FACILITIES.
2. ALL KNOWN PUBLIC AND PRIVATE UTILITY LINES WITHIN OR ADJACENT TO THE SITE OF THE WORK ARE SHOWN IN THEIR EXISTING APPROXIMATE LOCATIONS ON THE CONTRACT PLANS. THE CONTRACTOR IS CAUTIONED THAT THESE LOCATIONS ARE NOT GUARANTEED, NOR IS THERE A GUARANTEE THAT ALL SUCH LINES IN EXISTENCE ARE ACTIVE, OR HAVE BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL A CODE 53 (16 NYCRR PART 753) PRIOR TO ANY EXCAVATION ACTIVITY AND SHALL ADHERE TO ALL PROVISIONS THEREIN.
3. SHOULD UTILITIES BE ENCOUNTERED DURING CONSTRUCTION WHICH INTERFERE WITH THE WORK AND FOR WHICH PROVISIONS ARE NOT MADE ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORKING IN THE AFFECTED AREA AND NOTIFY THE ENGINEER OF THE EXISTENCE OF THESE UTILITIES AND OF THE EXTENT OF CONFLICT WITH THE WORK. THE ENGINEER SHALL THEN MAKE ARRANGEMENTS WITH THE OWNING UTILITY IN ORDER TO ALLOW THE CONTRACTOR TO PROGRESS THE WORK.
4. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO PREVENT DAMAGE TO SUCH FACILITIES. HE SHALL MAKE SUCH EXPLORATIONS AS MAY BE NECESSARY TO DETERMINE THE DIMENSIONS AND LOCATIONS OF LINES THAT MAY BE SUBJECT TO DAMAGE. NOTIFICATION TO THE VARIOUS OWNERS OF FACILITIES SHALL BE IN ACCORDANCE WITH NEW YORK STATE INDUSTRIAL CODE 753 (EFFECTIVE FEBRUARY 5, 1997).
5. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE EXACT LOCATION OF UTILITY LINES AND SHALL PROTECT AND SUPPORT IN A SUITABLE MANNER AT HIS OWN EXPENSE ALL UNDERGROUND UTILITIES ENCOUNTERED IN HIS EXCAVATING AND TRENCHING OPERATIONS. THE CONTRACTOR SHALL MAKE GOOD ON ANY DAMAGE TO THOSE UTILITIES CAUSED BY HIS OPERATIONS. IF THE NATURE OF THE DAMAGE IS SUCH AS TO ENDANGER THE SATISFACTORY OPERATIONS OF THE UTILITIES AND THE NECESSARY REPAIRS ARE NOT IMMEDIATELY MADE BY THE CONTRACTOR, THE WORK MAY BE DONE BY THE RESPECTIVE OWNING COMPANIES AND THE COST THEREOF CHARGED AGAINST THE CONTRACTOR.
6. DURING ANY CONSTRUCTION ACTIVITIES WHERE UTILITY POLES ARE IN CLOSE PROXIMITY, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A SUPPORT SYSTEM OF THE UTILITY POLE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND IN COORDINATION WITH THE OWNING UTILITY COMPANY.
7. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THE UTILITY COMPANIES AS TO SPECIFIC REQUIREMENTS AND/OR RESTRICTIONS WHEN PERFORMING WORK ADJACENT TO UTILITY LINES, AND PARTICULARLY WHEN WORKING IN THE AREA OF, A POLE RELOCATION, REMOVAL, OR REPLACEMENT.
8. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH ALL KNOWN PUBLIC AND PRIVATE UTILITY COMPANIES OCCUPYING THE WORK SITE. THE CONTRACTOR SHALL, AT THIS MEETING, INFORM THE UTILITY COMPANIES OF HIS SCHEDULE OF OPERATIONS AND SO COORDINATE HIS WORK WITH THESE COMPANIES. CONTACT INFORMATION AND A DESCRIPTION OF THE WORK IS INCLUDED IN THE PROPOSAL BOOK AND OUTLINED HERE AS FOLLOWS:

HILL BOULEVARD:

- A. CON EDISON GAS: RILWAN DUROSINMI 917-418-6517
- B. TURN OF YORKTOWN WATER: KEN RUNDLE 914-245-6111
- C. TOWN OF YORKTOWN SEWER: ED MAHONEY 914-245-3510
- D. TOWN OF SOMERS SEWER: ADAM SMITH 914-248-5181

VETERANS ROAD:

- A. NYSEG ELECTRIC: ROB MCDONOUGH 585-484-2233
- B. TOWN OF YORKTOWN WATER: KEN RUNDLE 914-245-6111
- C. VERIZON: THOMAS MARDLE 914-741-8740
- D. CABLEVISION/CSC HOLDINGS: THOMAS KEENAN 845-296-3533
- F. CROWN CASTLE: RICHARD PITZ 845-554-6091

WORK ZONE TRAFFIC CONTROL NOTES

1. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT VERSION OF SECTION 619 OF THE STANDARD SPECIFICATIONS, THE CURRENT WORK ZONE TRAFFIC CONTROL (619 SERIES) STANDARD SHEETS, ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF THIS CONTRACT, AND AS DIRECTED BY THE ENGINEER.
2. AS DEFINED IN SECTION 101-02 OF THE STANDARD SPECIFICATIONS, THE MUTCD CONSISTS OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
3. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OR SCOPE OF THE WORK ZONE TRAFFIC CONTROL PLAN. SUCH CHANGES TO THE BASIC CONCEPT OR SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF FORTY-FIVE (45) CALENDAR DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
4. ALL VEHICLES AND EQUIPMENT WITHIN THE CONTRACT LIMITS AND ON TRAVEL LANES AND/OR SHOULDERS SHALL BE EQUIPPED WITH AND SHALL OPERATE A MINIMUM OF ONE AMBER ROTATING OR FLASHING LIGHT EMITTING DIODE (LED) BEACON VISIBLE FROM ALL DIRECTIONS FOR A MINIMUM OF 1000 FEET DURING DAYLIGHT. IF VISIBILITY OF A SINGLE BEACON IS BLOCKED BY A PORTION OF THE VEHICLE OR EQUIPMENT, ADDITIONAL BEACONS SHALL BE PROVIDED. BEACONS SHALL BE MOUNTED IN A MANNER WHICH DOES NOT CAUSE GLARE FOR DRIVERS USING THE ROADWAY OR THE OPERATOR OF THE VEHICLE OR EQUIPMENT.
5. CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS SHALL BE PLACED OR STORED DURING NON-WORKING HOURS A MINIMUM OF 30 FEET FROM THE EDGE OF PAVEMENT OR BEHIND TEMPORARY CONCRETE BARRIER OR GUIDE RAIL. EQUIPMENT, VEHICLES, AND MATERIALS STORED BEHIND TEMPORARY CONCRETE OR GUIDE RAIL SHALL NOT BE PLACED OR STORED WITHIN THE APPROPRIATE DEFLECTION SHOWN IN TABLE 619-6, GUIDE RAIL AND TEMPORARY CONCRETE BARRIER STANDARD DEFLECTION DISTANCES, IN THE STANDARD SPECIFICATIONS.
6. PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR THE CONTRACTOR'S WORKERS SHALL BE PARKED, DURING WORKING AND NON-WORKING HOURS, IN ACCORDANCE WITH THE REQUIREMENTS IN THE PRECEDING PARAGRAPH.
7. AT THE START OF CONTRACT WORK ALL TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING, BUT NOT LIMITED TO CONES, DRUMS, CONSTRUCTION BARRICADES, ETC.) SHALL APPEAR IN ACCEPTABLE CONDITION AS DESCRIBED AND PICTURED IN THE CURRENT EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) MANUAL QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE MARGINAL CONDITION AT ANY TIME DURING THE LIFE OF THE CONTRACT.
8. ALL SIGNS SHALL BE IN ACCEPTABLE CONDITION AS DESCRIBED IN THE ATSSA MANUAL QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE LIFE OF THE CONTRACT. NON-STANDARD SIGN LEGENDS ARE NOT ACCEPTABLE.
9. RIGID SIGN PANELS HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE LOWEST SIGN PANEL. FOR SIGNS INCORPORATING AN AUXILIARY PANEL BELOW THE PRIMARY PANEL, THE MINIMUM MOUNTING HEIGHT SHALL BE 6 FEET. FLEXIBLE PANEL AND LIGHTWEIGHT RIGID PANELS SHALL BE MOUNTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

WORK ZONE TRAFFIC CONTROL NOTES (CONT'D)

10. PORTABLE VARIABLE MESSAGE SIGNS SHALL BE PLACED AT LOCATIONS INDICATED IN THE CONTRACT PLANS. PAYMENT SHALL BE MADE UNDER ITEM 619.110511.
11. PORTABLE VARIABLE MESSAGE SIGNS WILL BE USED TO NOTIFY MOTORISTS AT LEAST TWO WEEKS IN ADVANCE OF THE ANTICIPATED START OF WORK DATE. THE SIGNS SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETED AT A LOCATION OR AS DIRECTED BY THE ENGINEER.
12. THE FOLLOWING IS A SUMMARY OF THE ANTICIPATED NEED FOR PORTABLE VARIABLE MESSAGE SIGNS:
 - PVMS 1
LOCATION: EAST MAIN ST WEST BOUND 1/2 MILE FROM HILL BLVD.
DURATION: DURATION OF CONSTRUCTION.
 - PVMS 2
LOCATION: INTERSECTION OF EAST MAIN ST EAST BOUND WITH LEE BLVD.
DURATION: DURATION OF CONSTRUCTION.
 - PVMS 3
LOCATION: INTERSECTION OF HILLBLVD WITH LEE BLVD.
DURATION: DURATION OF CONSTRUCTION.
 - PVMS 4
LOCATION: COMMERCE ST (NORTH BOUND) INTERSECTION WITH UNDERHILL AVE AND KEAR ST.
DURATION: DURATION OF CONSTRUCTION.
 - PVMS 5
LOCATION: SAW MILL RIVER RD (ROUTE 202) INTERSECTION WITH COMMERCE ST.
DURATION: DURATION OF CONSTRUCTION
 - PVMS 6
LOCATION: SAW MILL RIVER RD (ROUTE 202) INTERSECTION WITH GREENWOOD ST.
DURATION: DURATION OF CONSTRUCTION
13. THE CONTRACTOR IS REMINDED THAT, IN ACCORDANCE WITH SECTION 619-3.10 OF THE STANDARD SPECIFICATIONS, PORTABLE VARIABLE MESSAGE SIGNS WITH A PAY UNIT OF EACH SHALL BE RELOCATED OR REORIENTED, IF NECESSARY, UP TO FOUR (4) ITEMS PER YEAR AS CONDITIONS DICTATE AT NO ADDITIONAL COST TO THE TOWN.
14. STANDARD (TYPICAL) MESSAGES FOR PORTABLE VARIABLE MESSAGE SIGNS SHALL BE SUPPLIED TO THE CONTRACTOR BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ANY UNIQUE MESSAGES TO THE ENGINEER FOR APPROVAL.
15. NIGHTTIME CONSTRUCTION IS PROHIBITED IN THIS CONTRACT.

TABLE OF MAINTENANCE JURISDICTION

PART NO.	ROADWAY	LIMITS	FEATURES TO BE MAINTAINED	CL (MI)	LANE (MI)	AGENCY	JURISDICTION
1	HILL BOULEVARD	WITHIN PROJECT LIMITS (H11+61 TO 13+20)	PAVEMENT, SHOULDERS, GUIDE RAILING, INCLUDING SNOW REMOVAL	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C
2	HILL BOULEVARD	20 FT FROM HIGHWAY BOUNDARY	STREAM CHANNEL AND BANKS WITHIN ROW AND FEE TAKING LINES	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C
3	HILL BOULEVARD	WITHIN PROJECT LIMITS (H11+61 TO 13+20)	ENTIRE STRUCTURE	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C
4	VETERANS ROAD	WITHIN PROJECT LIMITS (V12+06 TO V13+30)	PAVEMENT, SHOULDERS, GUIDE RAILING, INCLUDING SNOW REMOVAL	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C
5	VETERANS ROAD	20 FT FROM HIGHWAY BOUNDARY	STREAM CHANNEL AND BANKS WITHIN ROW AND FEE TAKING LINES	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C
6	VETERANS ROAD	WITHIN PROJECT LIMITS (V12+06 TO V13+30)	ENTIRE STRUCTURE	---	---	TOWN OF YORKTOWN	HIGHWAY LAW SEC. 349-C

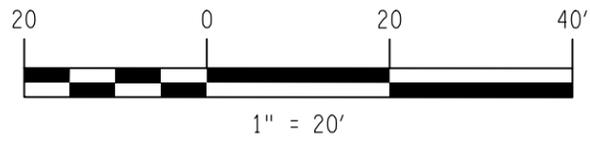
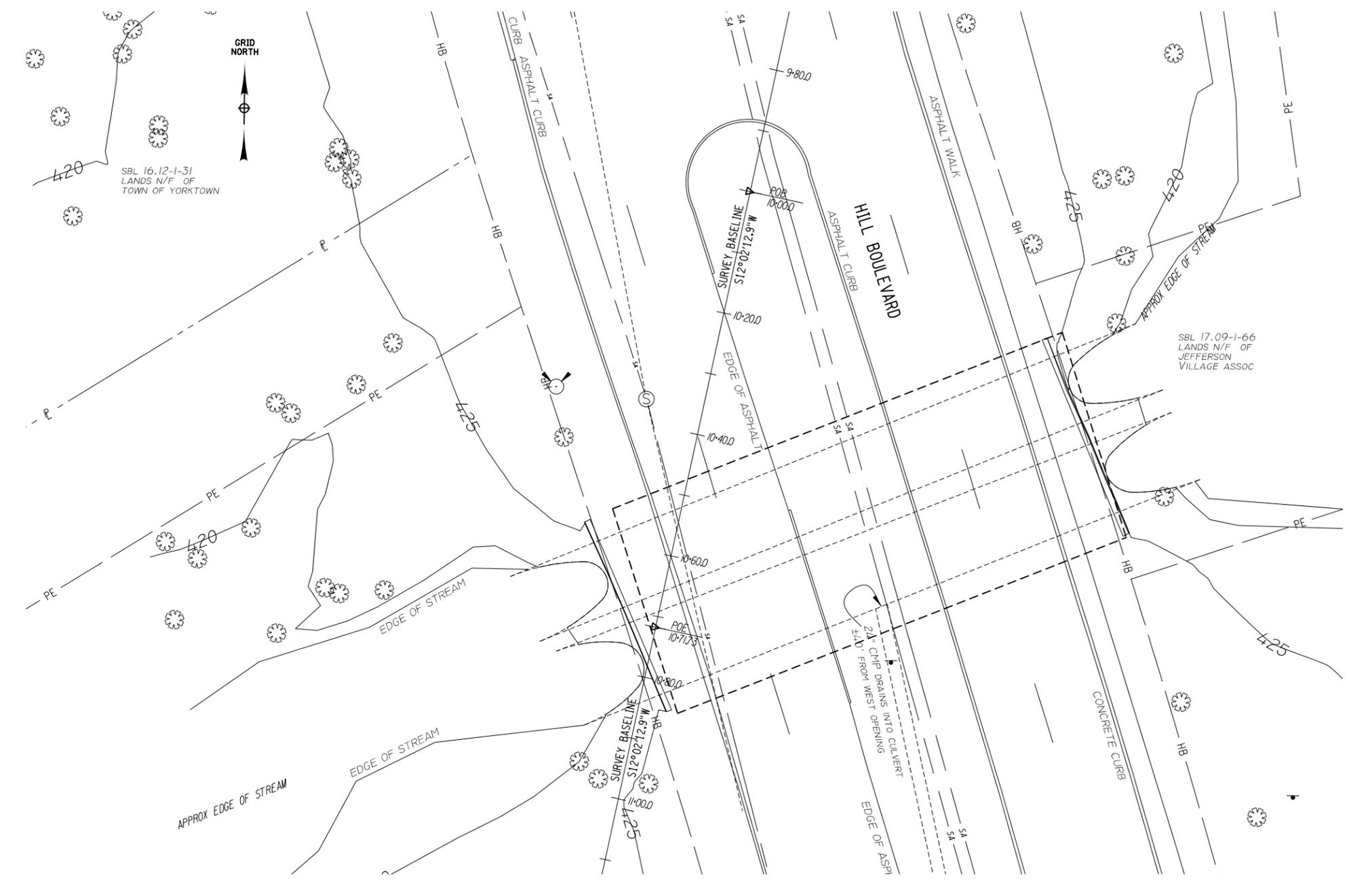
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	
PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	
BRIDGES CULVERTS	
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED GENERAL NOTES 2 OF 2	
CONTRACT NUMBER DRAWING NO. GNN-2 SHEET NO. 5	

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.

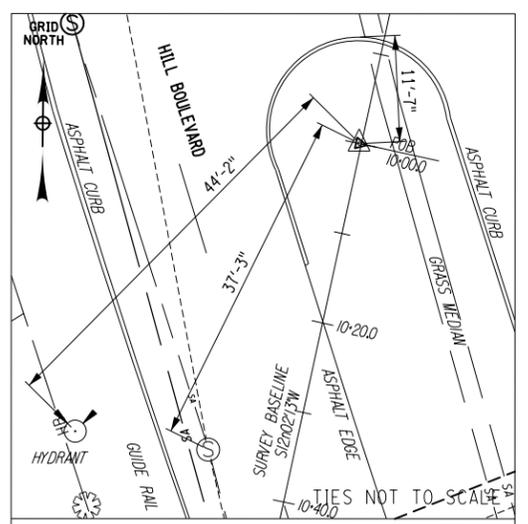


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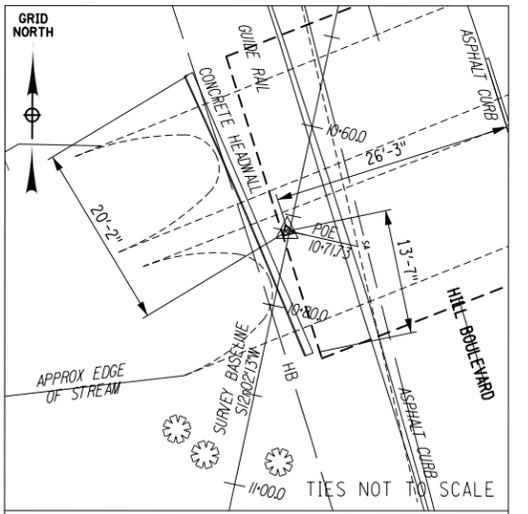


PLAN



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 B-01 SPIKE NAIL

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BSTA. 10+71.73
 B-02 SPIKE NAIL

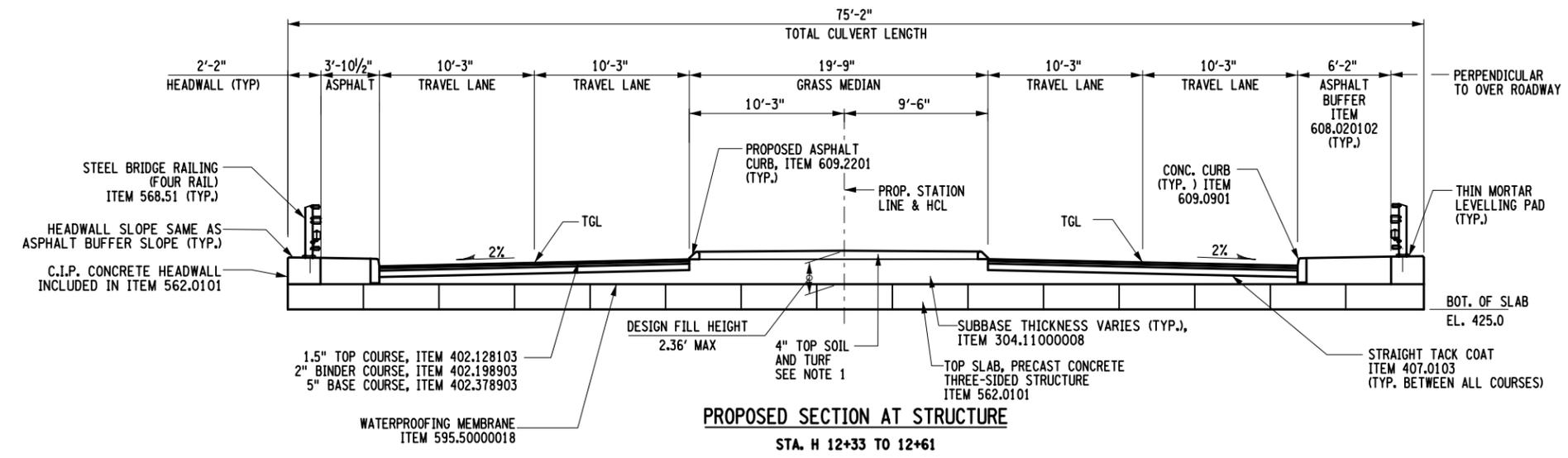
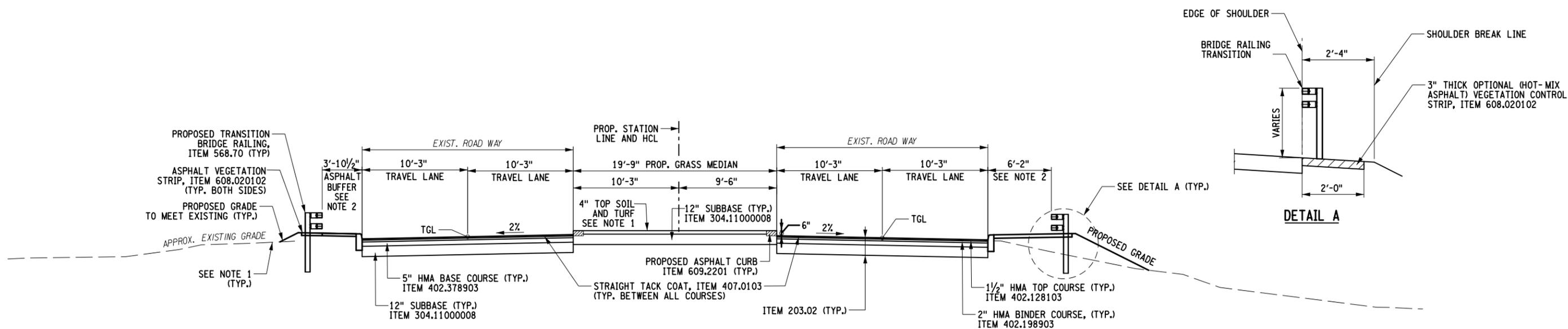
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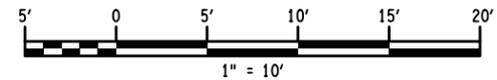
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					
	TOWN OF YORKTOWN	BASELINE TIES				
	COUNTY: WESTCHESTER REGION: 8	HILL BOULEVARD		DRAWING NO. HB-1 SHEET NO. 6		
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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- NOTES:**
- DISTURBED AREAS IN LOCATIONS OUTSIDE PLACEMENT OF MEDIUM STONE FILL (ITEM 620.04), ALONG EDGE OF PAVEMENT SHALL BE RESTORED BY PLACING 4" TOPSOIL (ITEM 610.1402) AND ESTABLISHING TURF (ITEM 610.1601).
 - LIMITS OF ASPHALT BUFFER SHALL BE AS SHOWN ON THE PROPOSED PLAN. PAYMENT SHALL BE MADE UNDER ITEM 608.020102.



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES BIN 2265539	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TYPICAL APPROACH ROADWAY SECTIONS	CONTRACT NUMBER DRAWING NO. HB-3 SHEET NO. 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.				HILL BOULEVARD	

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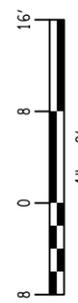
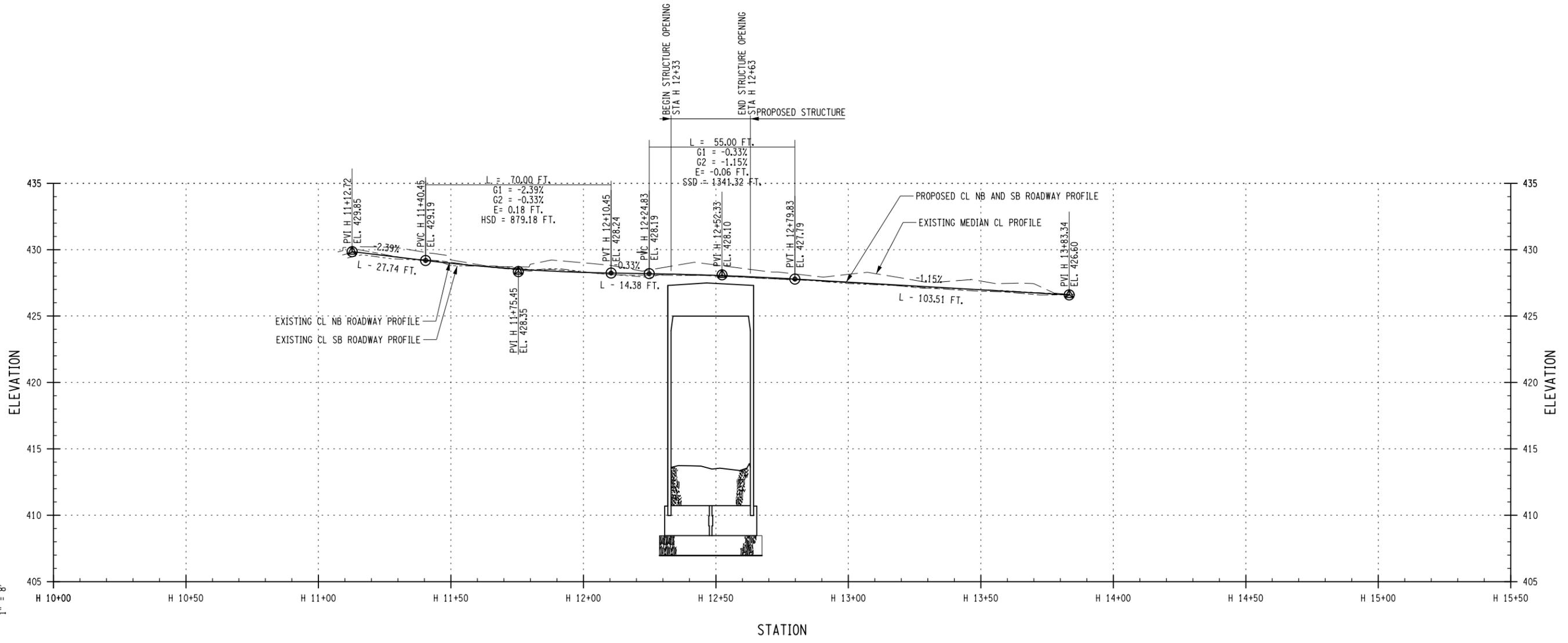
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AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES BIN 2265539	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EXISTING AND PROPOSED PROFILE HILL BOULEVARD	CONTRACT NUMBER DRAWING NO. HB-4 SHEET NO. 9
	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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PLAN

BORING NOTES:

1. THE OBSERVED WATER LEVELS AND/OR CONDITIONS INDICATED IN BORING LOGS ARE AS RECORDED AT THE TIME OF EXPLORATION. ACTUAL WATER LEVELS MAY DIFFER FROM THE OBSERVED WATER LEVEL BECAUSE OF LIMITATIONS IN THE NUMBER AND DURATION OF OBSERVATIONS AND WILL VARY WITH CHANGES IN CLIMATE AND RAINFALL.
2. BASELINE FOR BORINGS NOT SHOWN ON PLAN, BORING LOCATIONS ARE APPROXIMATE.
3. THE BORING LOGS PRESENTED ON THESE PLANS ARE FOR THE PURPOSE OF PROVIDING INTENDED USERS WITH ACCESS TO THE SAME INFORMATION AVAILABLE TO THE ENGINEER. THIS IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATIONS OR JUDGEMENT OF THE CONTRACTOR.

REFERENCES:

1. FOR BRIDGE GENERAL NOTES. SEE DWG. NOS. GNN-1 AND GNN-2.
2. FOR EXISTING BRIDGE PLAN AND ELEVATION, SEE DWG. NO. HB-7.
3. FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. HB-8.
4. FOR SUBSURFACE BORING PROFILES, SEE DWG. NO. HB-6.

LEGEND:

- BORE HOLE LOCATION
- B-* BORING IDENTIFICATION

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	VETERANS ROAD OVER HALLOCKS MILL BROOK		BIN 2265539				
	TOWN OF YORKTOWN					BORING LOCATION PLAN	DRAWING NO. HB-5
	COUNTY: WESTCHESTER REGION: 8					HILL BOULEVARD	SHEET NO. 10
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.							

ATLANTIC TESTING LABORATORIES, Limited

Subsurface Investigation

Client: WSP USA Report No.: CD4309D-01-11-17
 Project: Subsurface Investigation Boring Location: See Boring Location Plan
Bridge and Culvert Replacements
Yorktown, New York
 Boring No.: B-1 Sheet 1 of 2
 Start Date: 10/17/2017 Finish Date: 10/18/2017
 Groundwater Observations
 Date Time Depth Casing
10/17/2017 PM 6.3' 19.0'
10/18/2017 AM 10.5' 19.0'
10/18/2017 AM 9.6' 49.0'
10/18/2017 AM 3.9' CAVED
 Ground Elev.: _____ Boring Advance By: Borehole caved at 12.3 feet.
 Hammer Type: Automatic
 Sampler Hammer Weight: 140 lbs.
 Fall: 30 in.
 NW (3") Casing

ATL-LOG-1-LL_CD4309D-WSP_USA-YORKTOWN_NEWYORK.GPJ_ATL-4-08.GDT_11/8/17

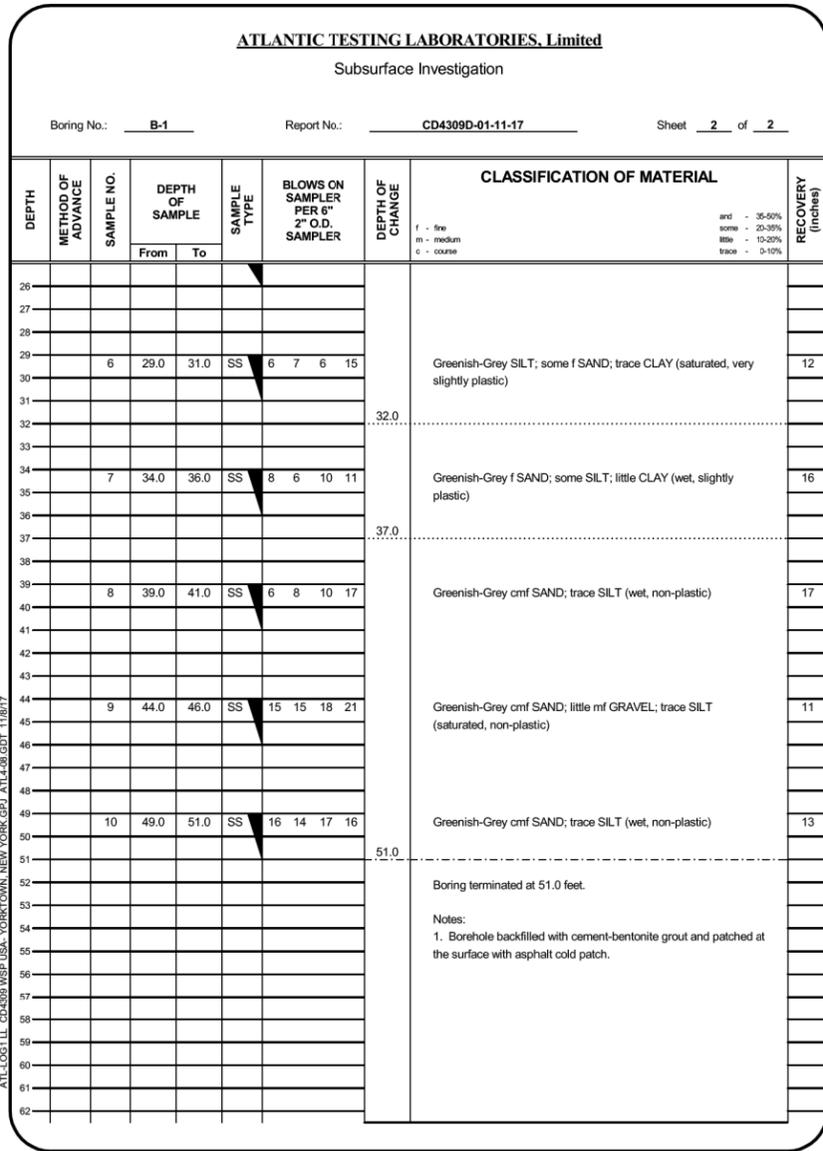
DEPTH	METHOD OF ADVANCE	SAMPLE NO.	DEPTH OF SAMPLE		SAMPLE TYPE	BLOWS ON SAMPLER PER 6" 2" O.D. SAMPLER	DEPTH OF CHANGE	CLASSIFICATION OF MATERIAL	Recovery (Inches)
			From	To					
1	C						0.7	8" ASPHALT PAVEMENT	
2	A								
3	S								
4	T	1	4.0	6.0	SS	7 5 8 8		Greyish-Brown cmf SAND; little cmf GRAVEL; trace SILT (moist, non-plastic)	6
5	N								
6	G								
7									
8									
9		2	9.0	9.6	SS	48 50/1"		Grey c GRAVEL (moist, non-plastic) COBBLE Fragments	1
10									
11							12.0		
12									
13									
14		3	14.0	16.0	SS	5 5 5 5		Greyish-Brown mf SAND; some SILT; trace ORGANIC MATERIAL (moist, non-plastic)	16
15									
16									
17							17.0		
18									
19		4	19.0	21.0	SS	6 7 8 10		Grey SILT; little f SAND (saturated, non-plastic)	17
20									
21									
22									
23									
24		5	24.0	26.0	SS	7 7 8 7		Greenish-Grey SILT; some f SAND (saturated, non-plastic)	16
25									

SS Split Spoon Sample
 NX Rock Core
 SH Undisturbed Sample (Shelby Tube)
 Estimated Groundwater

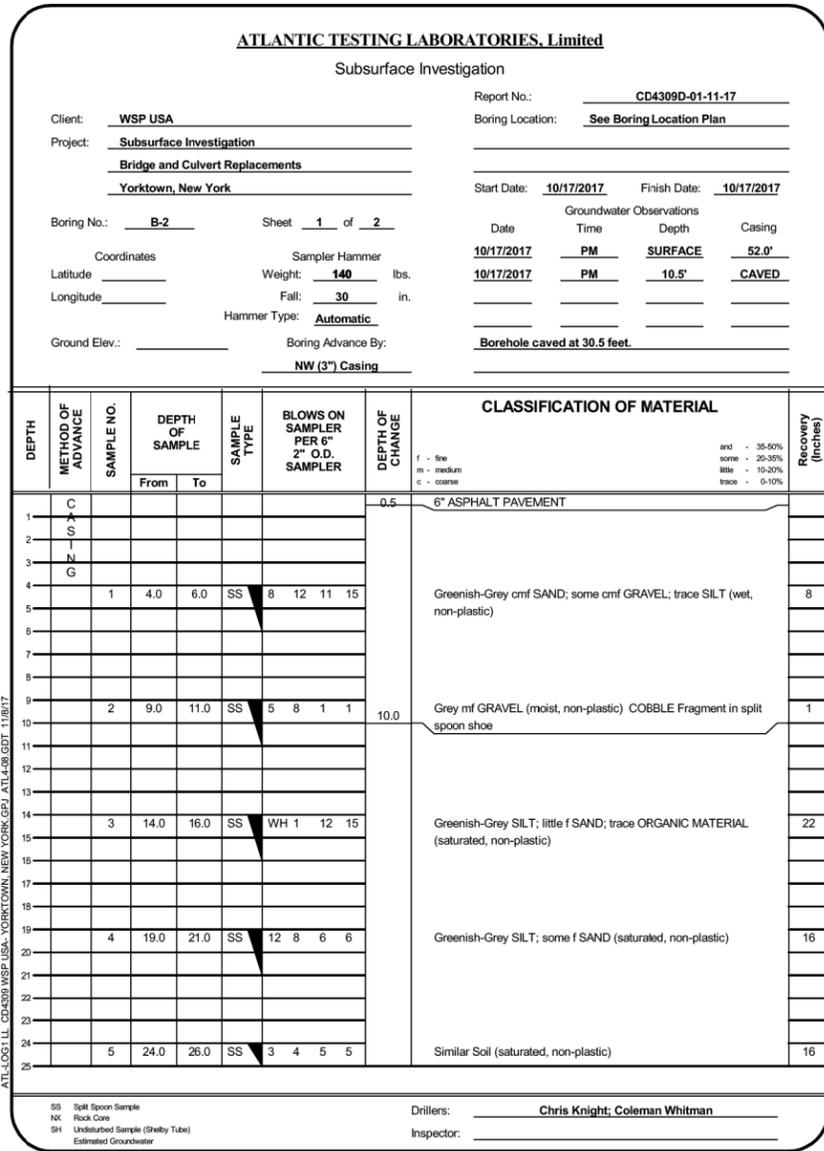
Drillers: Chris Knight; Coleman Whitman
 Inspector: _____

BORING B-1 PROFILE

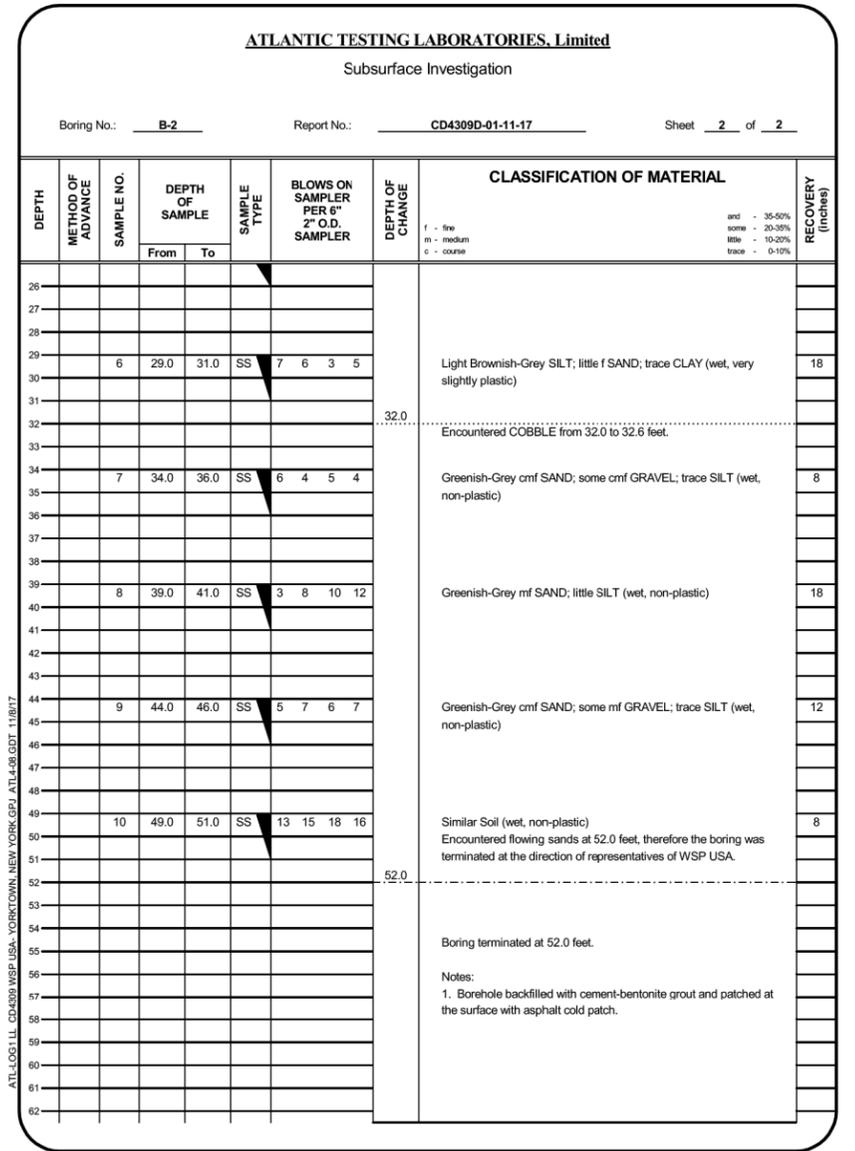




BORING B-1 PROFILE (CONT.)



BORING B-2 PROFILES



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
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.	

REFERENCES:

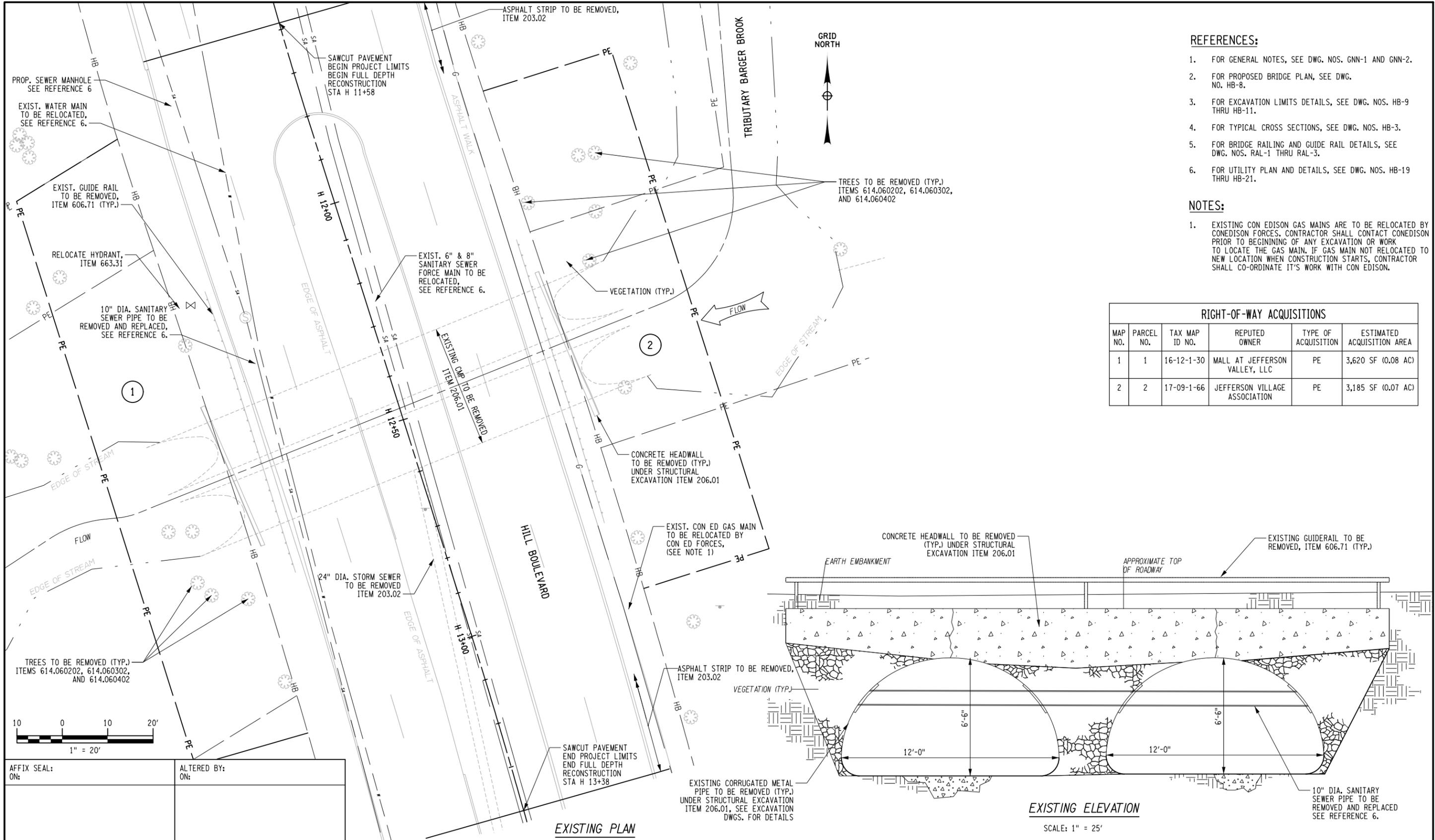
- FOR BORING LOCATION PLAN, SEE DWG. NO. HB-6.

PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES BIN 2265539	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED BORING SUBSURFACE PROFILE HILL BOULEVARD	CONTRACT NUMBER DRAWING NO. HB-6 SHEET NO. 11
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- REFERENCES:**
- FOR GENERAL NOTES, SEE DWG. NOS. GNN-1 AND GNN-2.
 - FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. HB-8.
 - FOR EXCAVATION LIMITS DETAILS, SEE DWG. NOS. HB-9 THRU HB-11.
 - FOR TYPICAL CROSS SECTIONS, SEE DWG. NOS. HB-3.
 - FOR BRIDGE RAILING AND GUIDE RAIL DETAILS, SEE DWG. NOS. RAL-1 THRU RAL-3.
 - FOR UTILITY PLAN AND DETAILS, SEE DWG. NOS. HB-19 THRU HB-21.
- NOTES:**
- EXISTING CON EDISON GAS MAINS ARE TO BE RELOCATED BY CONEDISON FORCES. CONTRACTOR SHALL CONTACT CONEDISON PRIOR TO BEGINNING OF ANY EXCAVATION OR WORK TO LOCATE THE GAS MAIN. IF GAS MAIN NOT RELOCATED TO NEW LOCATION WHEN CONSTRUCTION STARTS, CONTRACTOR SHALL CO-ORDINATE IT'S WORK WITH CON EDISON.

RIGHT-OF-WAY ACQUISITIONS					
MAP NO.	PARCEL NO.	TAX MAP ID NO.	REPUTED OWNER	TYPE OF ACQUISITION	ESTIMATED ACQUISITION AREA
1	1	16-12-1-30	MALL AT JEFFERSON VALLEY, LLC	PE	3,620 SF (0.08 AC)
2	2	17-09-1-66	JEFFERSON VILLAGE ASSOCIATION	PE	3,185 SF (0.07 AC)

AFFIX SEAL: ON:
 ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539			EXISTING PLAN AND ELEVATION
	TOWN OF YORKTOWN					SHEET NO. 12
	COUNTY: WESTCHESTER	REGION: 8			HILL BOULEVARD	

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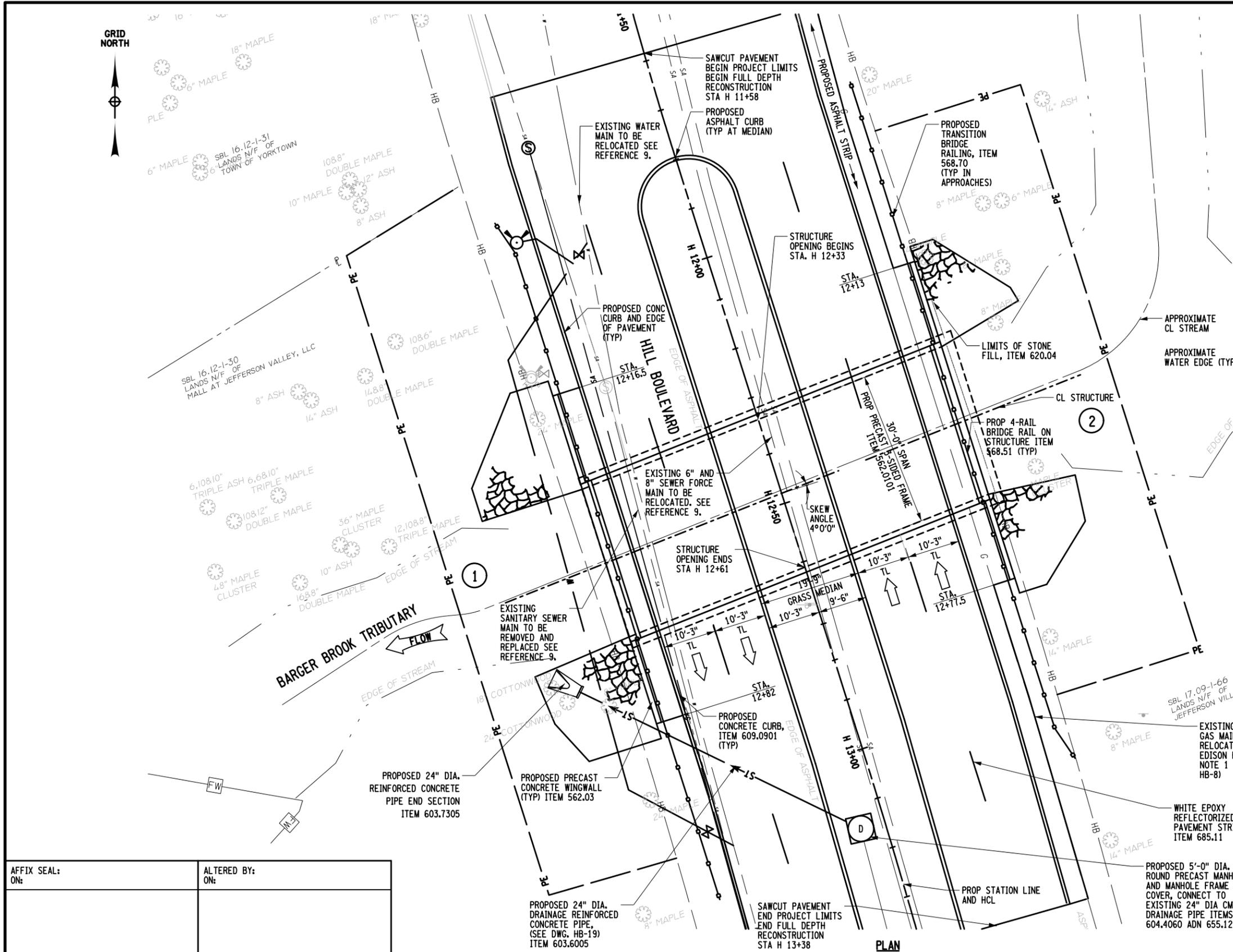
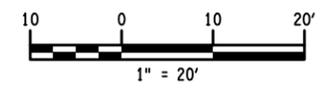
REFERENCES:

1. FOR GENERAL NOTES, SEE DWGS GNN-1 AND GNN-2.
2. FOR EXISTING BRIDGE PLAN AND ELEVATION, SEE DWG HB-7.
3. FOR EXCAVATION LIMIT DETAILS, SEE DWGS HB-9 TO HB-11.
4. FOR TYPICAL CROSS SECTIONS, SEE DWGS HB-3.
5. FOR BRIDGE RAILING DETAILS, SEE DWGS RAL-1 AND RAL-2.
6. FOR INVERT SLAB DETAILS, SEE DWG HB-14.
7. FOR BOX BEAM GUIDE RAIL TRANSITION, SEE DWG RAL-3.
8. FOR PRECAST UNIT SECTIONS, SEE DWG HB-13.
9. FOR UTILITY PLAN AND DETAILS, SEE DWG. NOS. HB-19 THRU HB-21.

RIGHT-OF-WAY ACQUISITIONS					
MAP NO.	PARCEL NO.	TAX MAP ID NO.	REPUTED OWNER	TYPE OF ACQUISITION	ESTIMATED ACQUISITION AREA
1	1	16-12-1-30	MALL AT JEFFERSON VALLEY, LLC	PE	3,620 SF (0.08 AC)
2	2	17-09-1-66	JEFFERSON VILLAGE ASSOCIATION	PE	3,185 SF (0.07 AC)

LEGEND:

— PE — PERMANENT EASEMENT



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN 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.	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020	BIN 2265539		PROPOSED PLAN	DRAWING NO. HB-8
			HILL BOULEVARD	SHEET NO. 13

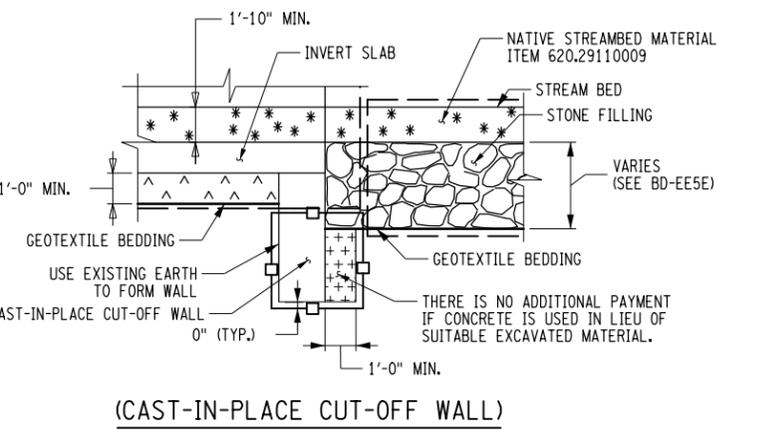
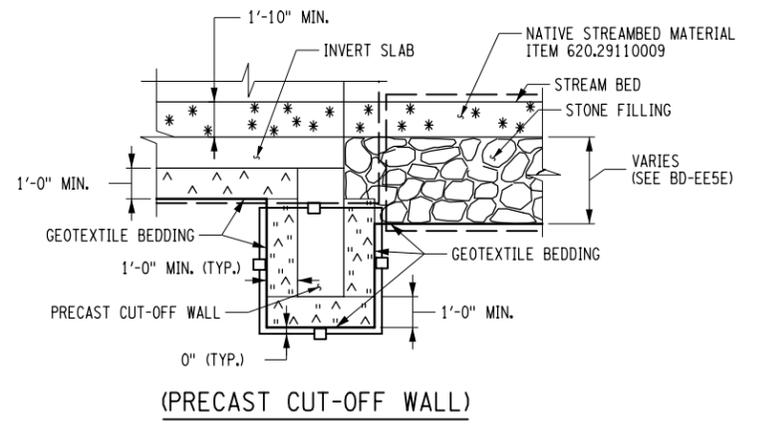
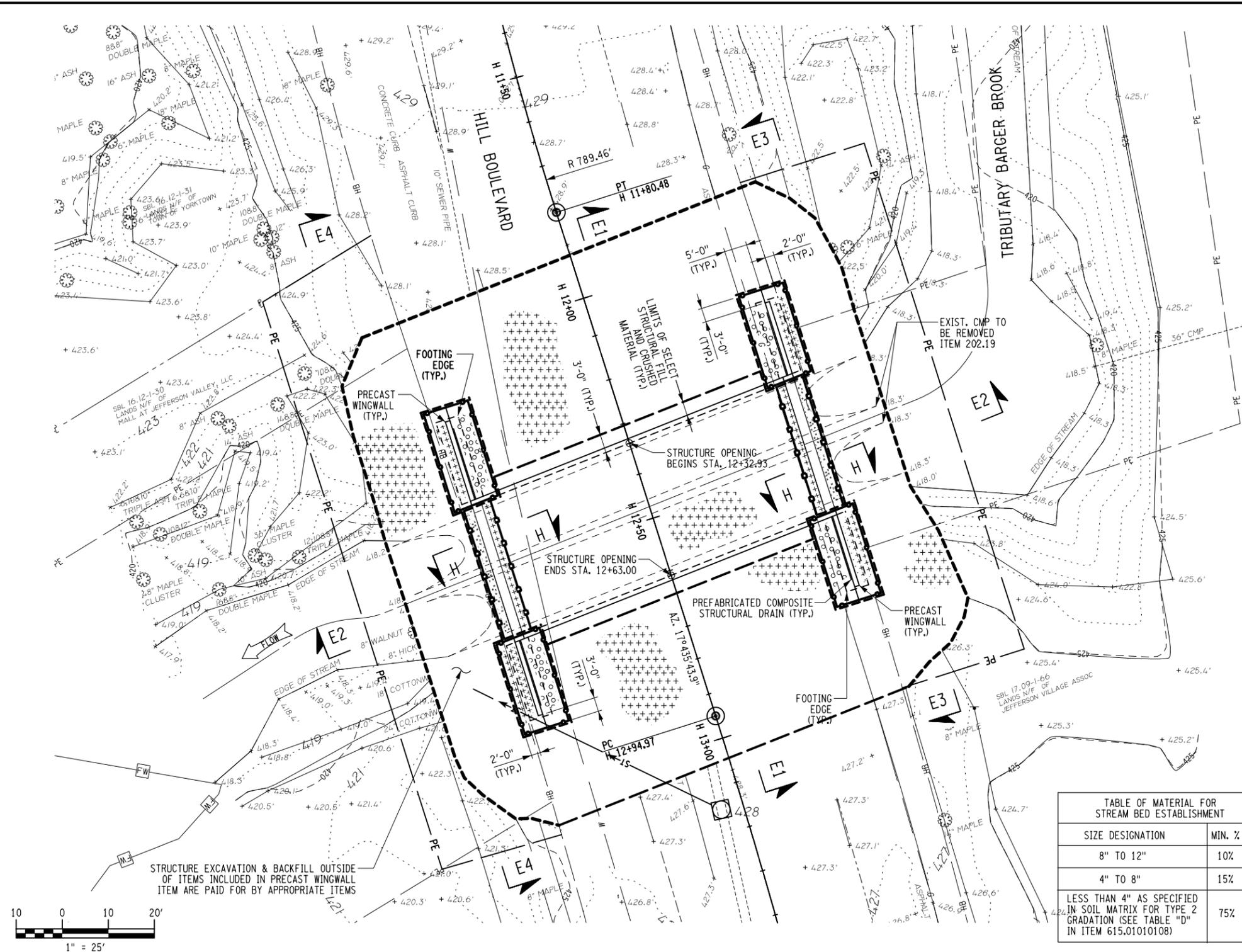


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 DESIGN NS
 JOB MANAGER DW
 DESIGN SUPERVISOR MM



LEGEND:

- EXISTING GROUND SURFACE
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION OR ITEM 206.0201 (TRENCH & CULVERT EXCAVATION)
- CONTROLLED LOW STRENGTH MATERIAL (CLSM) MEETING THE REQUIREMENTS OF SECTION 204. CLSM SHALL BE DESIGNED SO THAT IT FLOWS INTO THE VOIDS OF THE CRUSHED MATERIAL AND SETS UP SUFFICIENTLY WITHIN 24 HOURS TO ALLOW PLACEMENT OF ADDITIONAL MATERIAL. COST TO BE INCLUDED IN PRECAST ITEMS.
- CRUSHED STONE ITEM 623.12.
- MATERIAL FOR STREAM BED ESTABLISHMENT, TYPE 1 SOIL MATRIX, ITEM 615.01010108
- STONE FILLING (MEDIUM) (ITEM 620.04).
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01).
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION - (ITEM 206.0201)
- WITHIN THESE LINES, EXCAVATE IN ACCORDANCE WITH ITEM 206.01. STRUCTURE EXCAVATION AND BACKFILL IN ACCORDANCE WITH ITEM 203.21 SELECT STRUCTURE FILL, ITEM 206.01 SUITABLE EXCAVATED MATERIAL, AND CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION OF 2. FOR PRECAST WINGWALLS ALL THESE ITEMS ARE INCLUDED IN THE PRICE BID FOR THE WINGWALL ITEM.

SIZE DESIGNATION	MIN. %
8" TO 12"	10%
4" TO 8"	15%
LESS THAN 4" AS SPECIFIED IN SOIL MATRIX FOR TYPE 2 GRADATION (SEE TABLE "D" IN ITEM 615.01010108)	75%

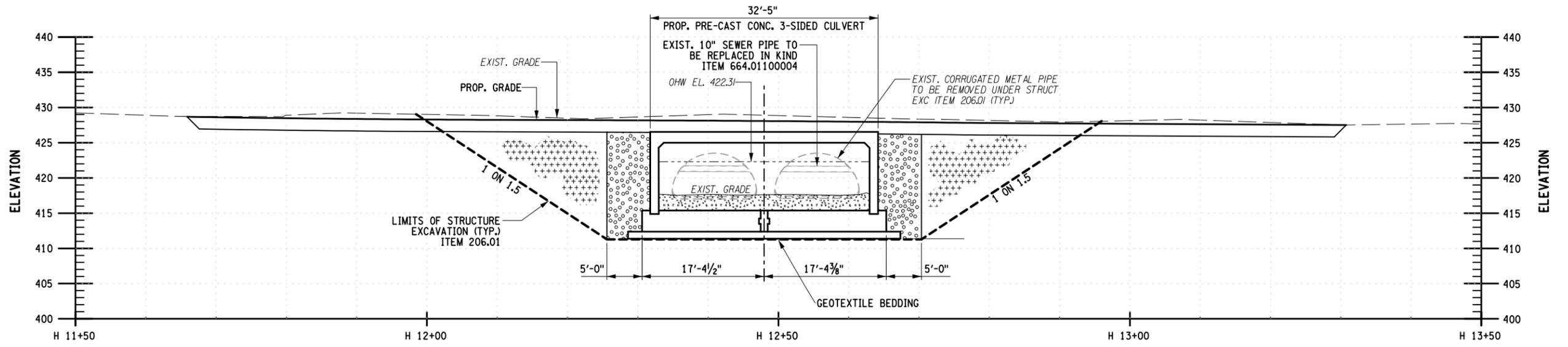
EXCAVATION PLAN
 SCALE: 1" = 30'-0"

- REFERENCES:**
- FOR SECTIONS E1-E1 & E2-E2, SEE DWG. NO. HB-10.
 - FOR SECTIONS E3-E3 & E4-E4, SEE DWG. NO. HB-11.

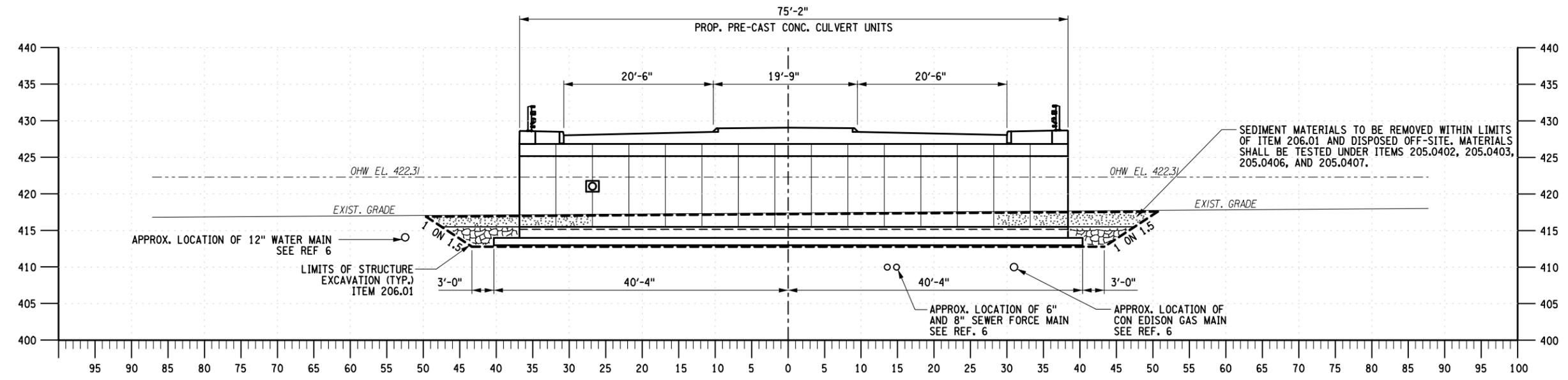
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		EXCAVATION PLAN	DRAWING NO. HB-9
	TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 14
	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.





SECTION E1-E1
SCALE: 1/16" = 1'-0"



SECTION E2-E2
SCALE: 1/16" = 1'-0"

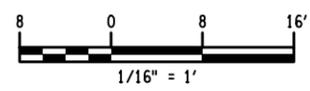
(FOR LOCATION OF SECTIONS E1-E1 & E2-E2, SEE DWG. NO. HB-9)

REFERENCES:

- FOR GENERAL NOTES, SEE DWG. NOS GNN-1 AND GNN-2
- FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. HB-8
- FOR EXCAVATION PLAN, SEE DWG. NO. HB-9.
- FOR TYPICAL CROSS SECTIONS, SEE DWG. NO. HB-3
- FOR BRIDGE RAILING AND GUIDE RAIL DETAILS, SEE DWG. NOS. RAL-1 THRU RAL-3
- FOR UTILITY PLAN AND DETAILS, SEE DWG. NOS. HB-19 THRU HB-21

LEGEND (CONT.):

- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- HIGHWAY EMBANKMENT MATERIAL (ITEM 203.03)
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
- STONE FILLING (MEDIUM) (ITEM 620.04)
- MATERIAL FOR STREAM BED ESTABLISHMENT, SOIL MATRIX TYPE 1 (ITEM 615.010108)



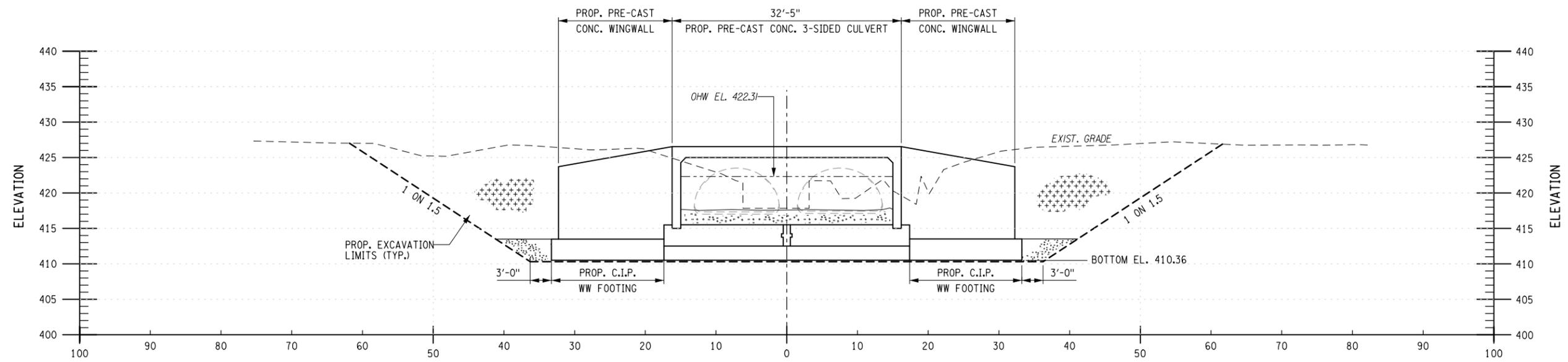
AFFIX SEAL: ON:	ALTERED BY: ON:																								
<p>LEGEND:</p> <p>--- EXISTING GROUND SURFACE</p> <p>--- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)</p> <p>--- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)</p>																									
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	<table border="1"> <tr> <td>HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK</td> <td>PIN 8761.66 8761.71</td> <td>BRIDGES</td> <td>CULVERTS</td> <td>ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED</td> <td>CONTRACT NUMBER</td> </tr> <tr> <td>VETERANS ROAD OVER HALLOCKS MILL BROOK</td> <td>PS&E DATE: MARCH 2020</td> <td>BIN 2265539</td> <td></td> <td>EXCAVATION SECTIONS (1 OF 2)</td> <td>DRAWING NO. HB-10</td> </tr> <tr> <td>TOWN OF YORKTOWN</td> <td></td> <td></td> <td></td> <td>HILL BOULEVARD</td> <td>SHEET NO. 15</td> </tr> <tr> <td>COUNTY: WESTCHESTER</td> <td>REGION: 8</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		EXCAVATION SECTIONS (1 OF 2)	DRAWING NO. HB-10	TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 15	COUNTY: WESTCHESTER	REGION: 8				
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER																				
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		EXCAVATION SECTIONS (1 OF 2)	DRAWING NO. HB-10																				
TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 15																				
COUNTY: WESTCHESTER	REGION: 8																								
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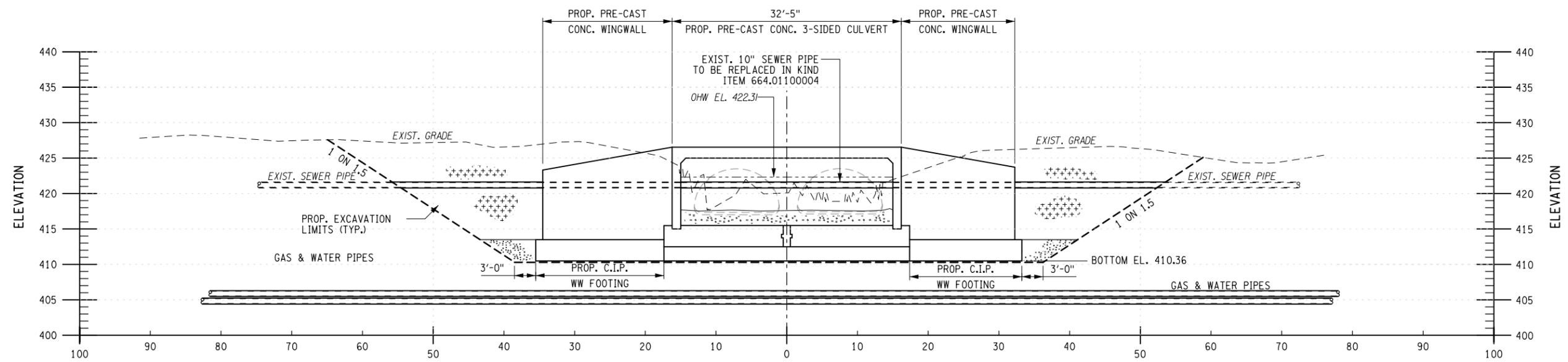
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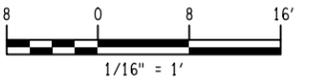
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SECTION E3-E3
 AT EAST WINGWALL
 SCALE: 1/16" = 1'-0"



SECTION E4-E4
 AT WEST WINGWALL
 SCALE: 1/16" = 1'-0"



LEGEND:

	SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
	HIGHWAY EMBANKMENT MATERIAL (ITEM 203.03)
	BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
	STONE FILLING (MEDIUM) (ITEM 620.04)
	MATERIAL FOR STREAM BED ESTABLISHMENT, SOIL MATRIX TYPE 1 (ITEM 615.01010108)

LEGEND: (FOR LOCATION OF SECTIONS E3-E3 & E4-E4, SEE DWG. NO. BH-9)

	EXISTING GROUND SURFACE
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
	PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)

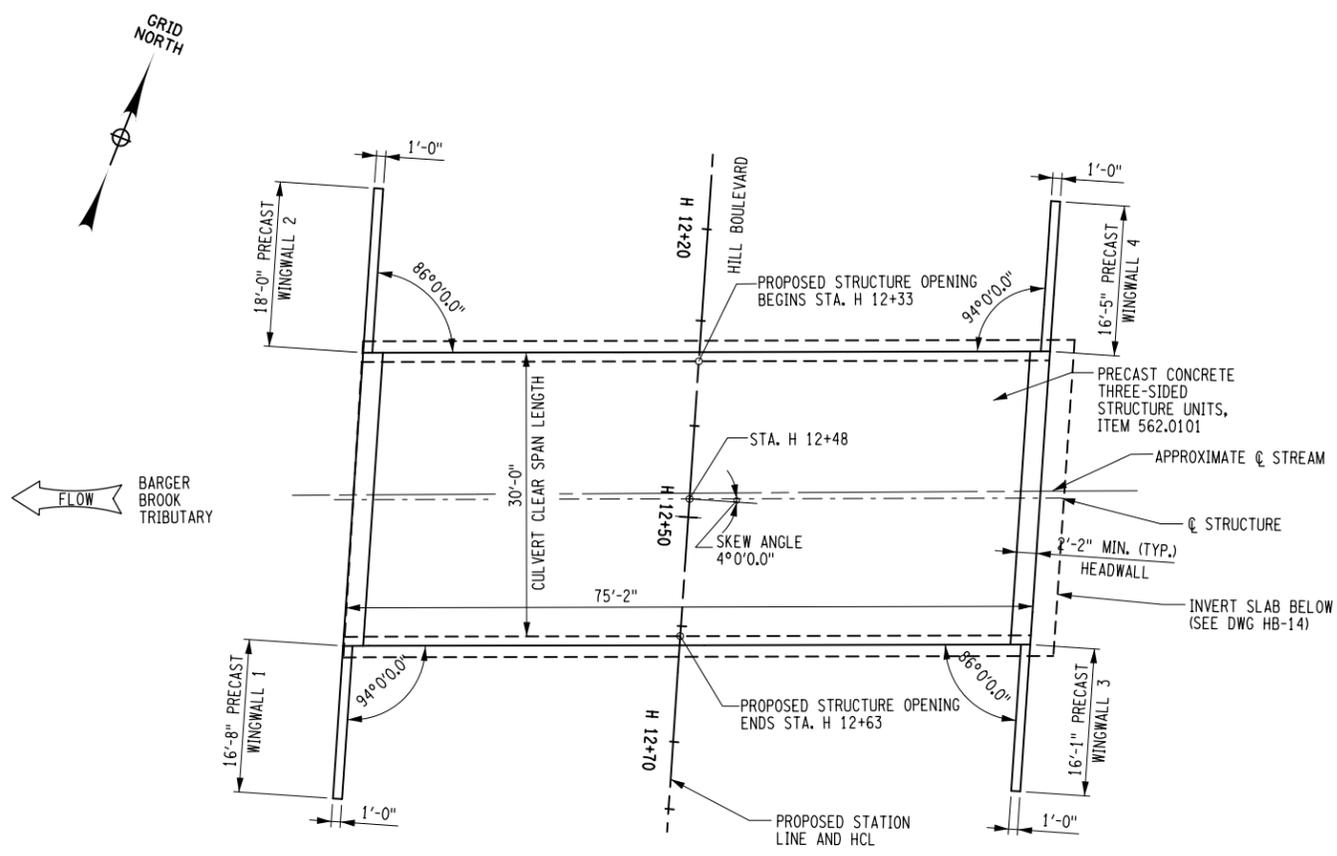
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		EXCAVATION SECTIONS (2 OF 2)	DRAWING NO. HB-11
TOWN OF YORKTOWN					SHEET NO. 16
COUNTY: WESTCHESTER	REGION: 8			HILL BOULEVARD	

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 JOB MANAGER DW
 DESIGN SUPERVISOR MM



ASSUMED UNFACTORED SPAN UNIT REACTIONS		
VERTICAL KIP / FT	DC	4.91
	DW	0.31
	LL	7.75
HORIZONTAL KIP / FT	DC	0.97
	DW	0.09
	LL	1.93
	EH	-2.96

WINGWALL DATA				
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "X"
WINGWALL 1	428.53	428.53	410.36	16'-8"
WINGWALL 2	428.31	428.31	410.36	18'-0"
WINGWALL 3	428.99	428.99	410.36	16'-1"
WINGWALL 4	428.77	428.77	410.36	16'-5"

DIMENSION "X" MEASURED ALONG FRONT OF WINGWALL. FOR WINGWALL SECTIONS AND ELEVATION SEE DWG. NO. HB-21

IF THE REACTIONS OF THE SELECTED SPAN UNIT EXCEED THE VALUES SHOWN IN THE ASSUMED UNFACTORED SPAN UNIT REACTIONS TABLE, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A NYS LICENSED PROFESSIONAL ENGINEER TO VERIFY OR REDESIGN THE SUBSTRUCTURE DESIGN. THE CALCULATIONS SHALL BE PREPARED, STAMPED AND SIGNED BY A NYS PROFESSIONAL ENGINEER AND SUBMITTED TO THE D.C.E.S. FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTING THE SUBSTRUCTURES, ANY ADDITIONAL COSTS ASSOCIATED WITH A REDESIGNED SUBSTRUCTURE SHALL BE AT THE CONTRACTOR'S EXPENSE.

THREE SIDED STRUCTURE DESIGN DATA	
CLEAR SPAN, FT.	30'-0"
FRAME RISE, FT.	10'-0"
• MIN. FILL HEIGHT, FT.	1.9
• MAX. FILL HEIGHT, FT.	2.5
(CSKEW) SKEW ANGLE PERPENDICULAR TO CENTER LINE OF ROADWAY, DEG.	4
LIVE LOAD	HL93 AND NYS PERMIT VEHICLE
RAILING / BARRIER TEST LOAD	TL-4

• BASED ON ASSUMED TOP SLAB THICKNESS OF 17". FABRICATION SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. FILL HEIGHT MEASURED FROM THE TOP OF THE TOP SLAB TO TOP OF PAVEMENT.

LOADING RATING (LFD)		
INVENTORY	HS	
OPERATING	HS	
LRFR RATING FACTORS		
INVENTORY	HS-93	
OPERATING	HS-93	

GEOTECHNICAL DESIGN DATA						
FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (LB / FT ³)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (LB / FT ²)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
30	30	120	2000	0.45	0.8	0.45

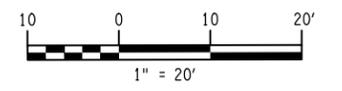
THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE LOAD RATINGS IN BOTH THE LOAD FACTOR RATING (LFD) METHOD AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE REGIONAL STRUCTURES ENGINEER.

HYDRAULIC DATA		
	BASIC FLOOD	DESIGN FLOOD
REQUENCY INTERVAL (YRS)	100	50
PEAK DISCHARGE (FT ³ /S)	685	556
HIGH WATER ELEVATION @ PT. OF MAX BACKWATER	EXISTING	425.51
	PROPOSED	425.05
AVG VELOCITY THRU STRUCTURE @ DESIGN FLOOD	2.6 FT/S	
DRAINAGE AREA	2.7 SQ. MI.	

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020	BIN 2265539		PRECAST UNIT PLAN AND DETAILS	DRAWING NO. HB-12 SHEET NO. 17
			HILL BOULEVARD	

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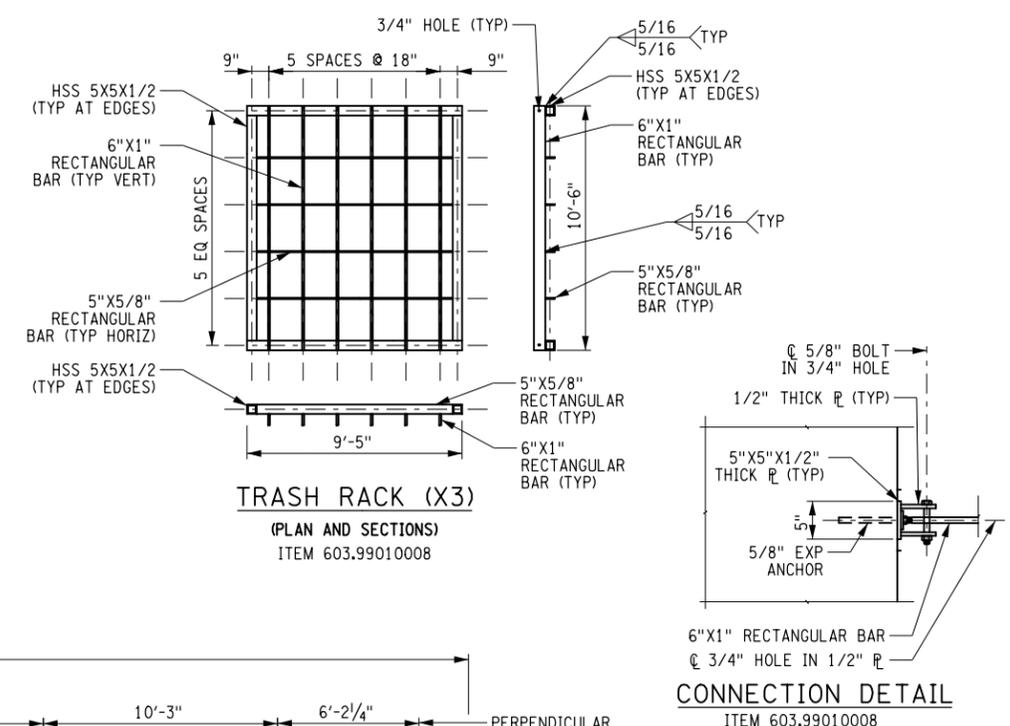
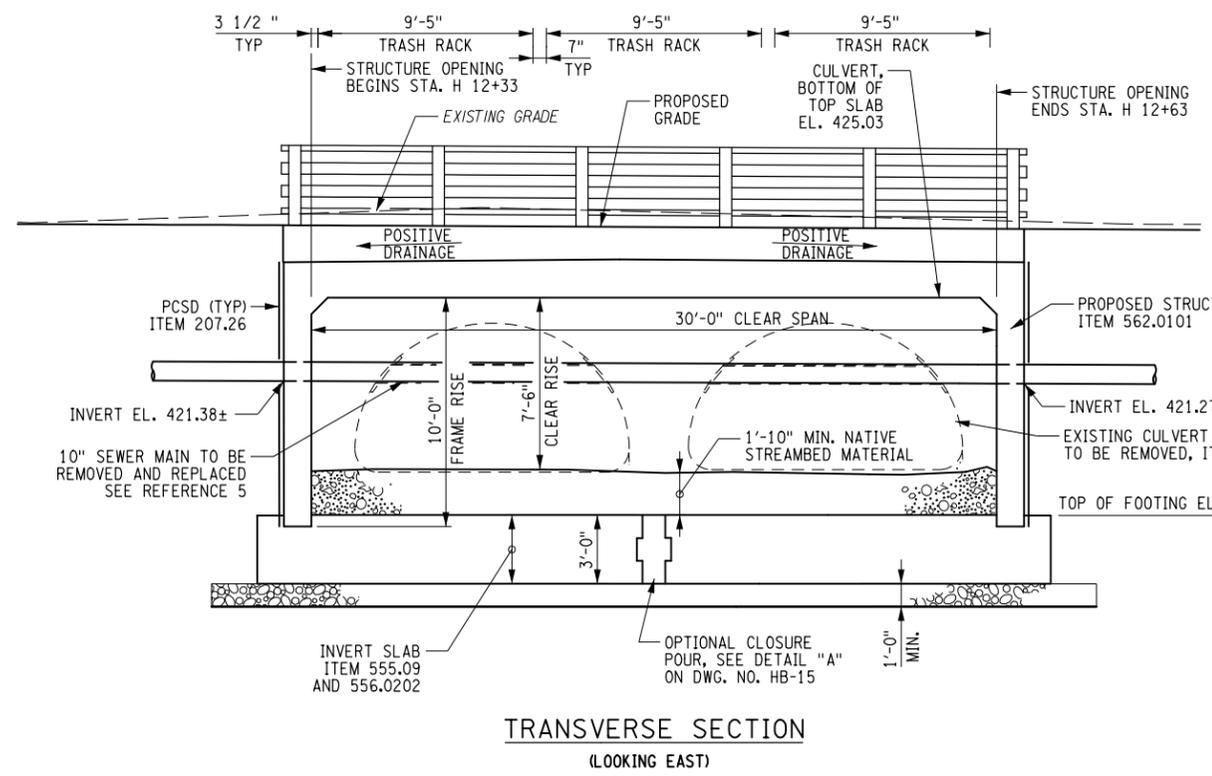
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REFERENCES:

1. FOR PROPOSED GENERAL PLAN, SEE DWG. NO. HB-8.
2. FOR PROPOSED INVERT SLAB DETAILS, SEE DWG. NO. HB-14.
3. FOR PROPOSED BRIDGE RAILING DETAILS, SEE DWG. NOS. RAL-1 AND RAL-2.
4. FOR WINGWALL DETAILS, SEE DWG. NO. HB-16.
5. FOR UTILITY PLAN AND DETAILS, SEE DWG. NOS. HB-19 THRU HB 21.

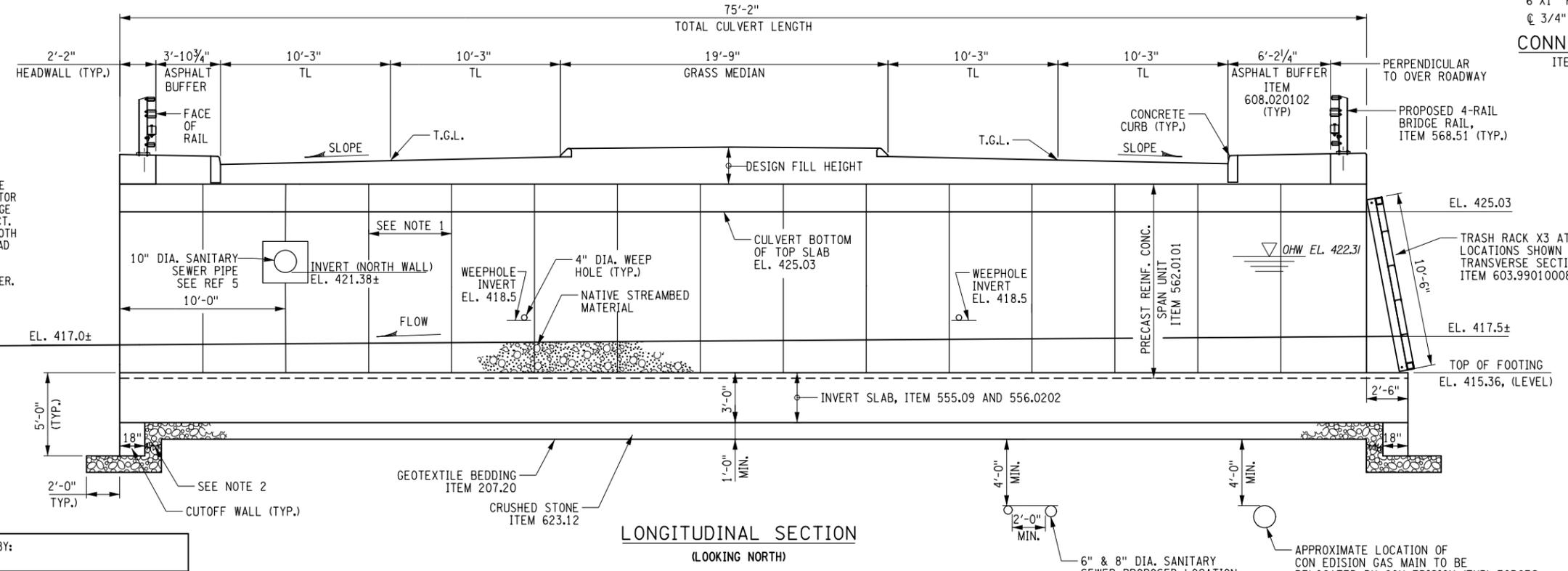
NOTES:

1. THE LENGTH OF EACH SEGMENT STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR.
2. PRECAST CUTOFF WALLS AND WINGWALLS SHALL BE PLACED ON A LEVELING BED OF CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH THE PRIMARY SIZE DESIGNATION OF 2. AFTER PLACING AND LEVELING THE PRECAST UNITS, THE AREAS BENEATH, IN FRONT AND BEHIND THE UNITS SHALL BE GROUTED WITH CONTROLLED LOW STRENGTH MATERIAL MEETING THE REQUIREMENTS OF SECTION 204. COST SHALL BE INCLUDED UNDER ITEM 562.0101.
3. WEEPHOLES SHALL BE PLACED AT A MAXIMUM SPACING OF 25 FEET. COST SHALL BE INCLUDED UNDER ITEM 562.0101.
4. PRECAST UNITS SHALL BE SECURED TO THE INVERT SLAB AS PER THE MANUFACTURER'S RECOMMENDATION.



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

THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE LOAD RATINGS IN BOTH THE LOAD FACTOR RATING (LFD) METHOD AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE REGIONAL STRUCTURES ENGINEER.



AFFIX SEAL: ON: ALTERED BY: ON:

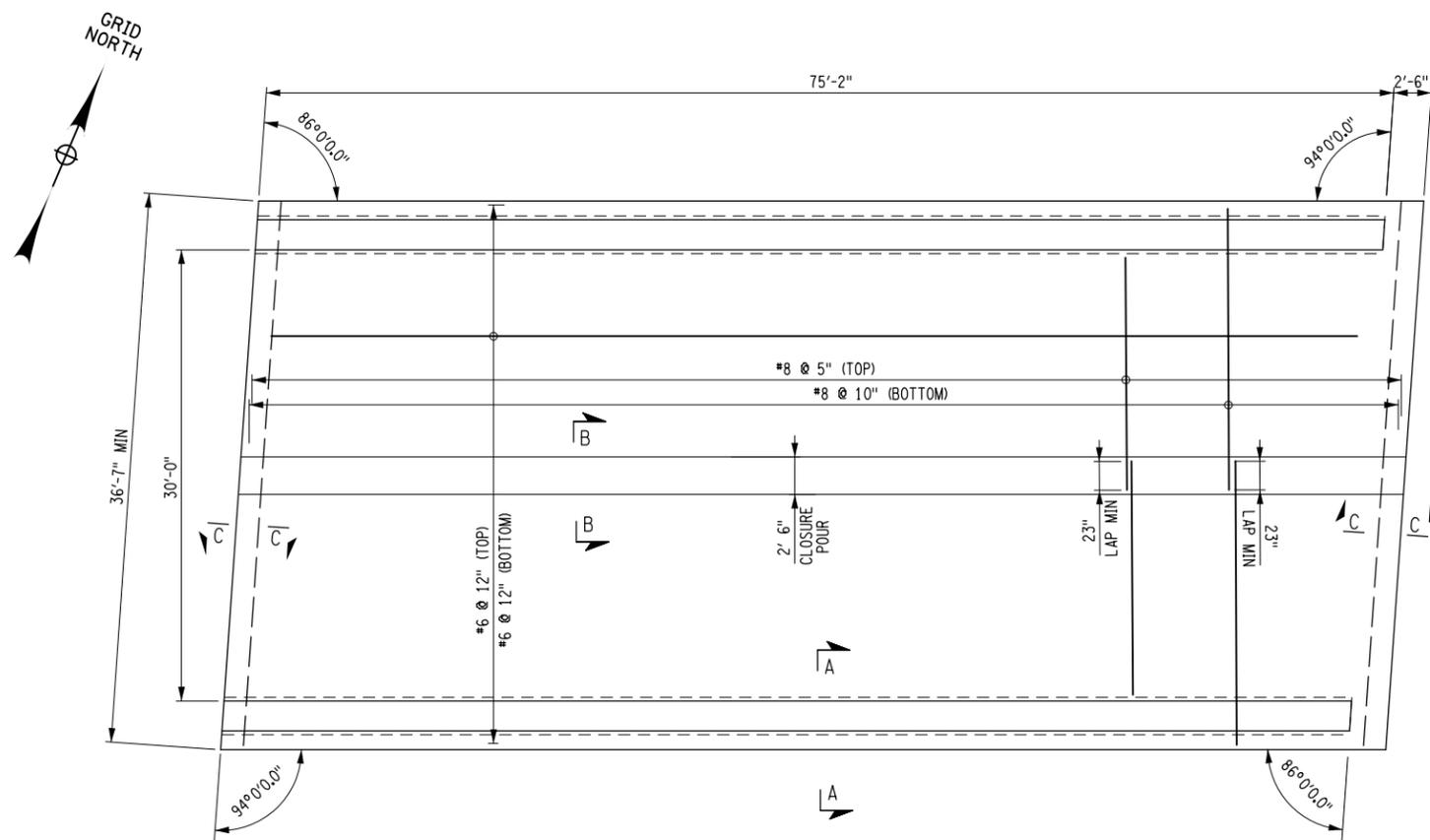
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED PRECAST UNIT SECTIONS	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539			DRAWING NO. HB-13 SHEET NO. 18
	TOWN OF YORKTOWN				HILL BOULEVARD	
	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.



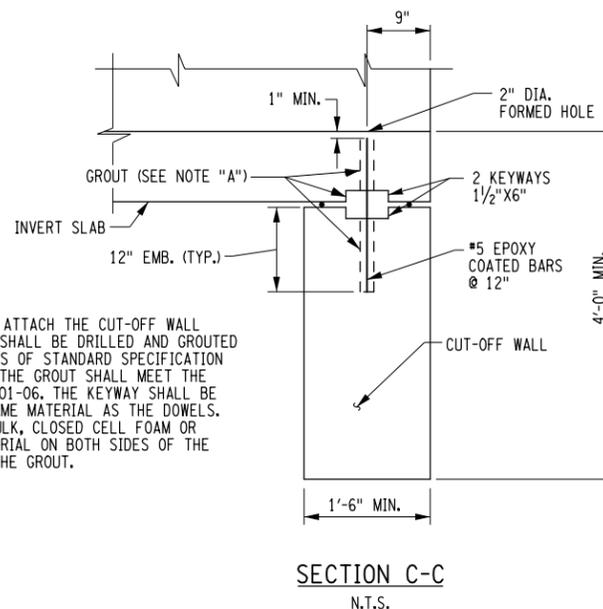
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 DATE/TIME = DATE: 3/2/2020 11:21:24 AM
 USER = PLOTTED BY: USJ504206

DESIGN SUPERVISOR MM PROJECT MANAGER DW
 JOB MANAGER DW CHECK JS DRAFTING JS CHECK NS



INVERT SLAB REINFORCEMENT PLAN

NOTE "A":
 DOWEL BARS USED TO ATTACH THE CUT-OFF WALL TO THE INVERT SLAB SHALL BE DRILLED AND GROUTED PER THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 586 EXCEPT THE GROUT SHALL MEET THE REQUIREMENTS OF § 701-06. THE KEYWAY SHALL BE GROUTED WITH THE SAME MATERIAL AS THE DOWELS. PLACE A BEAD OF CAULK, CLOSED CELL FOAM OR OTHER SUITABLE MATERIAL ON BOTH SIDES OF THE KEYWAY TO CONTAIN THE GROUT.



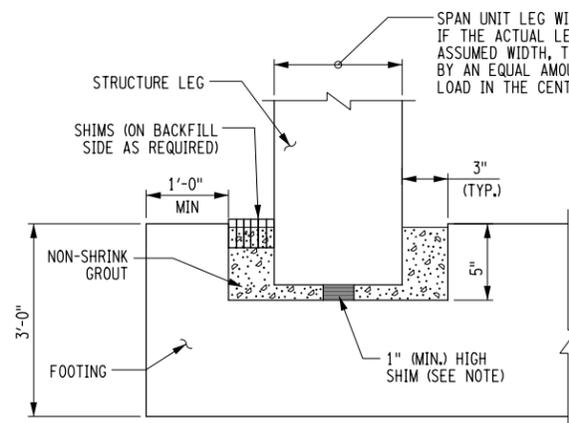
SECTION C-C
 N.T.S.

REFERENCES:

1. FOR FOOTING PLAN AND SECTION, SEE DWG. NO. HB-15.

NOTES:

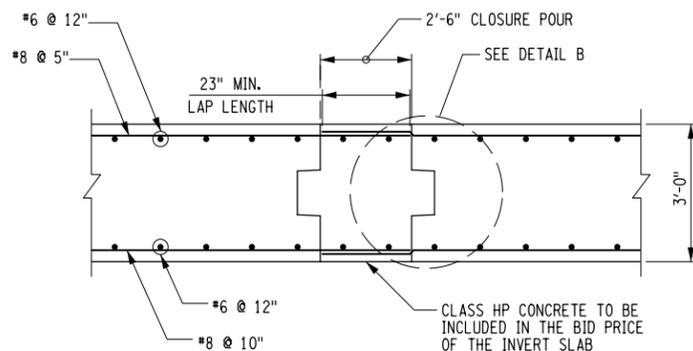
1. CONCRETE COVER SHALL BE 3", UNLESS OTHERWISE NOTED.
2. ALL REINFORCEMENT SHALL BE EPOXY COATED AND PAID FOR UNDER ITEM 556.0202.
3. INVERT SLAB CONCRETE SHALL BE CLASS HP AND PAID FOR UNDER ITEM 555.08.



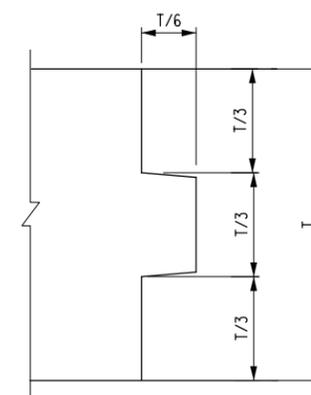
SECTION A-A

SPAN UNIT LEG WIDTH ASSUMED TO BE 12".
 IF THE ACTUAL LEG WIDTH SLAB IS WIDER THAN THE ASSUMED WIDTH, THE FOOTING MUST BE WIDENED BY AN EQUAL AMOUNT TO KEEP THE VERTICAL LOAD IN THE CENTER OF THE FOOTING.

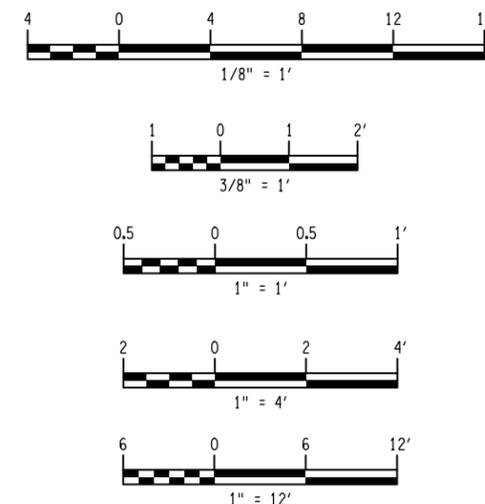
- NOTES:
- ADDITIONAL SHIMS ARE ALLOWED AT THE CONTRACTORS OPTION.
 - GROUT SHALL MEET THE REQUIREMENT OF STD. SPEC 701-05 OR STD. SPEC



SECTION B-B



DETAIL "B"



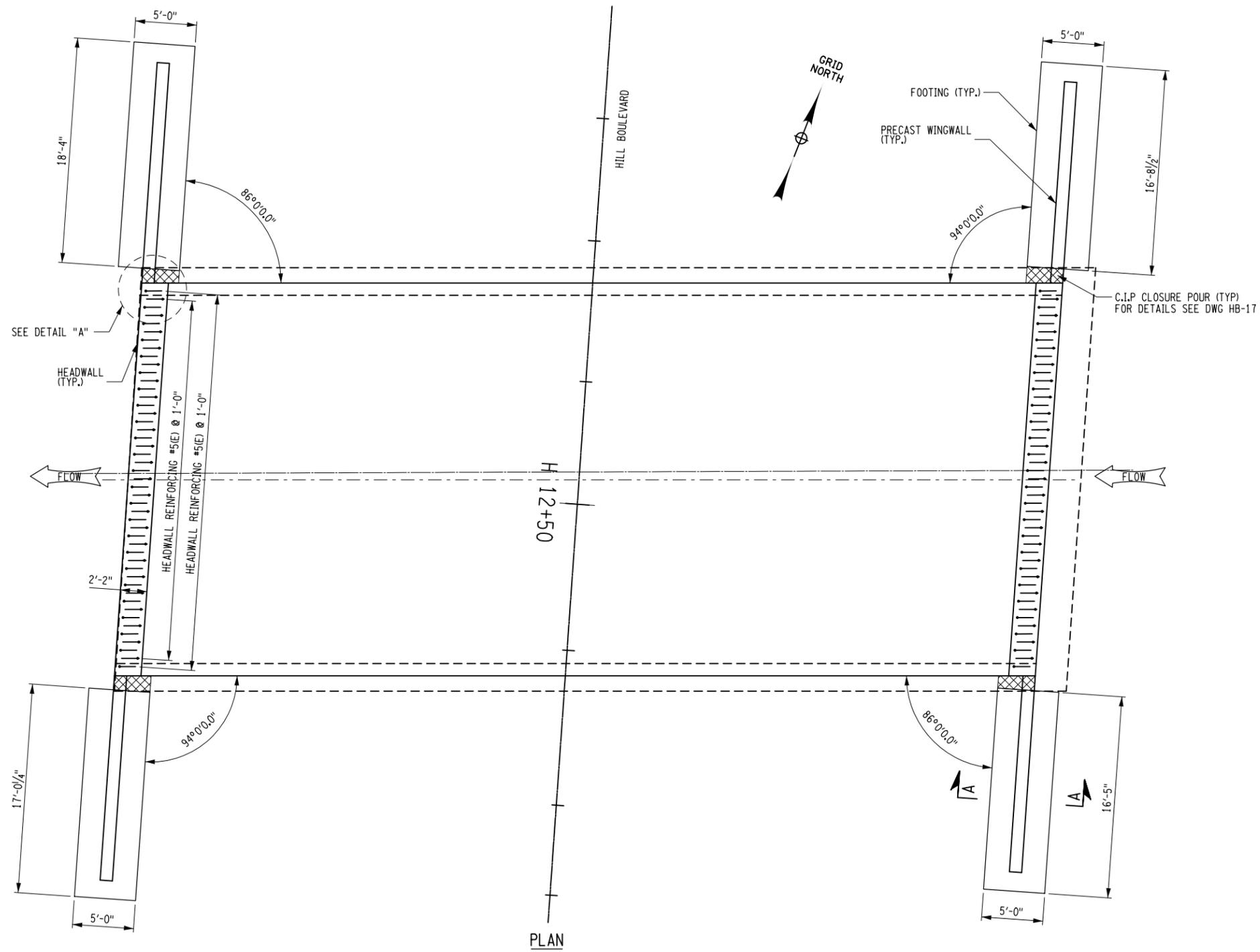
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		INVERT SLAB REINFORCEMENT PLAN	DRAWING NO. HB-14
TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 19
COUNTY: WESTCHESTER	REGION: 8				

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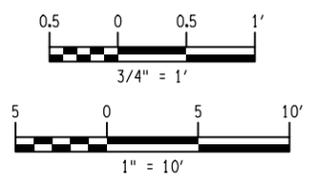
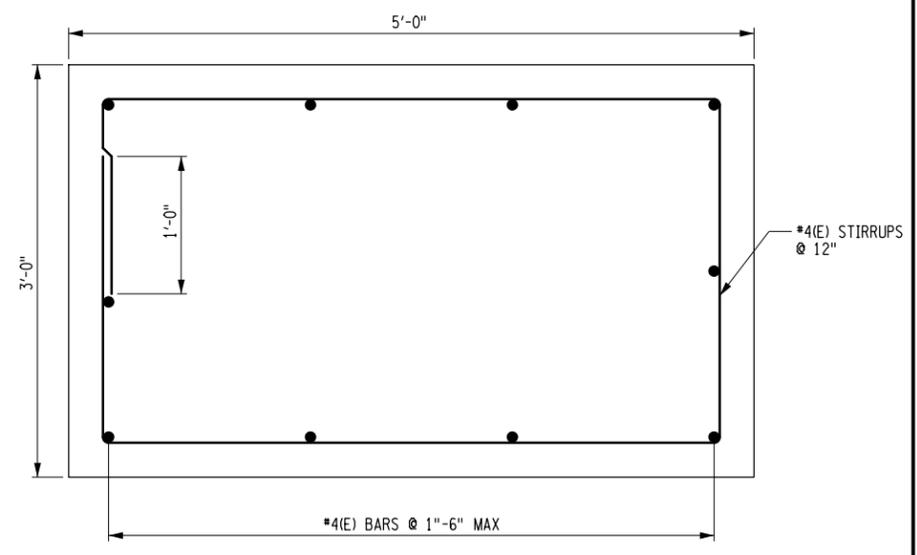
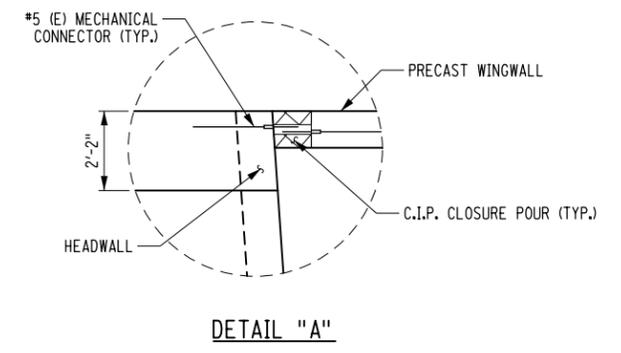
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 USER = PLOTTED BY: USJS04206

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 DESIGN SUPERVISOR MM



NOTES:

- COVER FOR REINFORCEMENT SHALL BE 3". UNLESS OTHERWISE NOTED.
- FOOTING DIMENSIONS DETERMINED FOR A MAXIMUM VERTICAL REACTION OF 10 KLF. CONTRACTOR TO DETERMINE DIMENSIONS FOR REACTIONS WHICH EXCEED THIS LIMITS, AND PROVIDE SUPPORTING CALCULATION TO ENGINEER FOR APPROVAL.
- DESIGN OF WINGWALL FOOTINGS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO MODIFY AS PER PRECAST FABRICATOR'S REQUIREMENTS.
- LONGITUDINAL BARS IN HEADWALLS ARE NOT SHOWN FOR CLARITY. SEE DWG. RAL-1 FOR DETAILS.
- WHERE EPOXY COATED THREADED INSERTS ARE SHOWN, ANY NON-CORROSIVE MECHANICAL CONNECTOR MEETING 709-10 MAY BE USED AS AN ALTERNATIVE.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
- ALL COVER SHALL BE 2" (3" IN FOOTINGS) UNLESS OTHERWISE NOTED.



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		WALL FOOTING AND HEADWALL PLAN AND SECTIONS	DRAWING NO. HB-15
TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 20
COUNTY: WESTCHESTER	REGION: 8				

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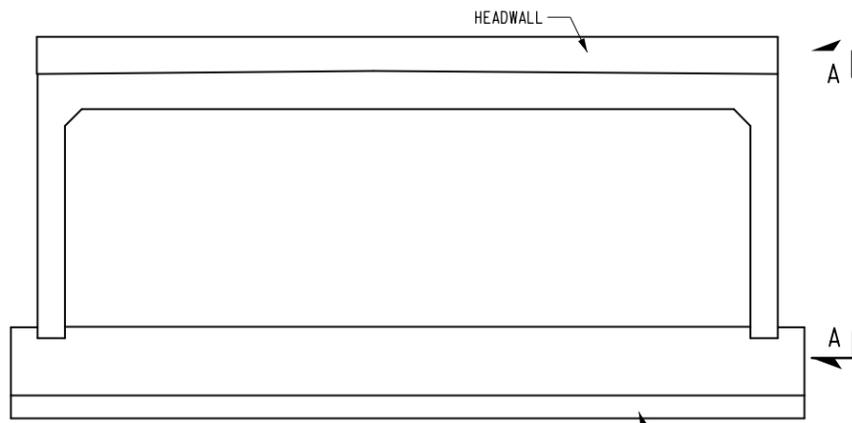
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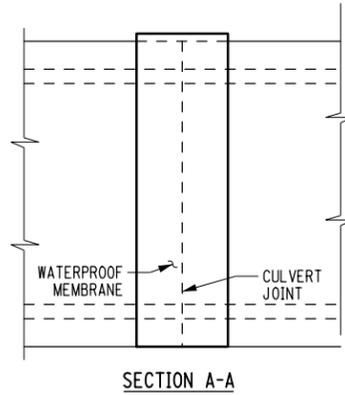
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DESIGN SUPERVISOR MM

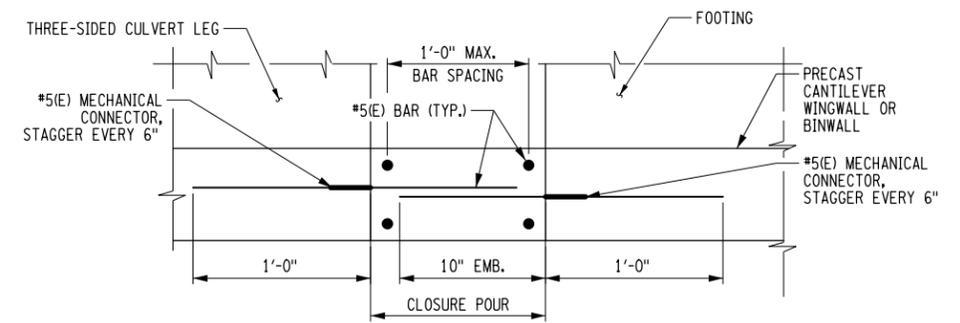


WATERPROOF MEMBRANE SPLICE DETAIL

CUT-OFF WALL, FOR DETAILS SEE "SECTION H-H" ON DWG. NO. HB-9 AND "CLOSURE POUR DETAIL" ON DWG. NO. HB-17

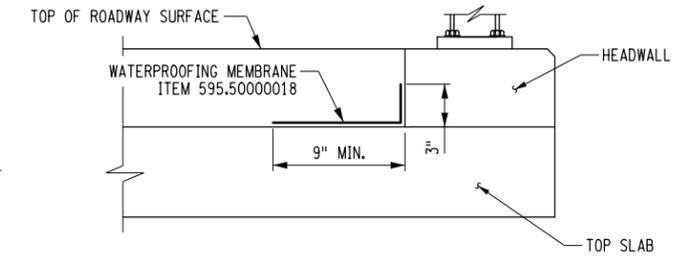


SECTION A-A



SECTION B-B

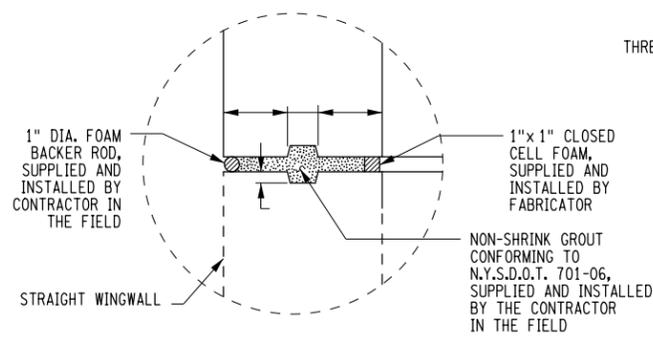
NOTE: PLACE C.I.P. CLOSURE POUR AFTER BACKFILLING USING S.I.P. FORMS.



SECTION D-D
WATERPROOFING MEMBRANE AT HEADWALL

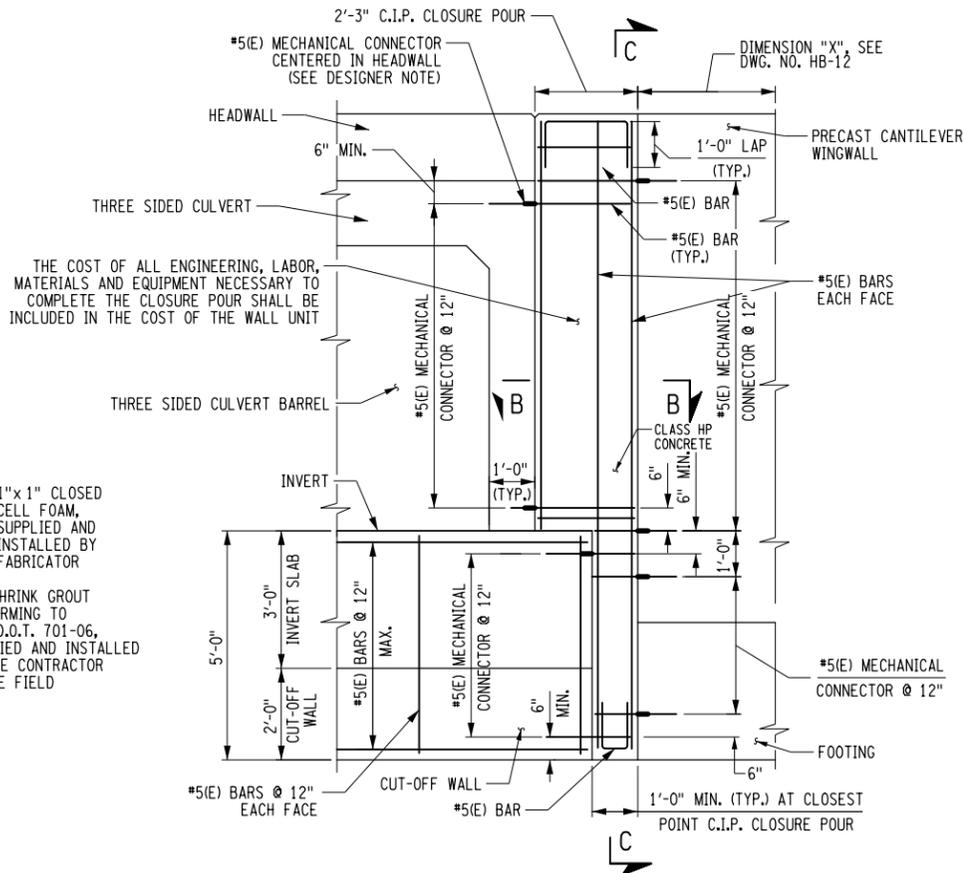
NOTES:

1. ACTUAL CULVERT WALL AND TOP SLAB THICKNESSES, REINFORCEMENT SIZE AND SPACINGS TO BE DETERMINED BY CONTRACTOR.
2. WHERE EPOXY COATED THREADED INSERTS ARE SHOWN, ANY NON-CORROSIVE MECHANICAL CONNECTOR MEETING §709-10 MAY BE USED AS AN ALTERNATIVE.
3. ALL REINFORCEMENT COVER ON CAST IN PLACE CONCRETE SHALL BE 2" UNLESS OTHERWISE NOTED.
4. ALL REINFORCEMENT COVER ON PRECAST UNITS SHALL BE 1" UNLESS OTHERWISE NOTED.

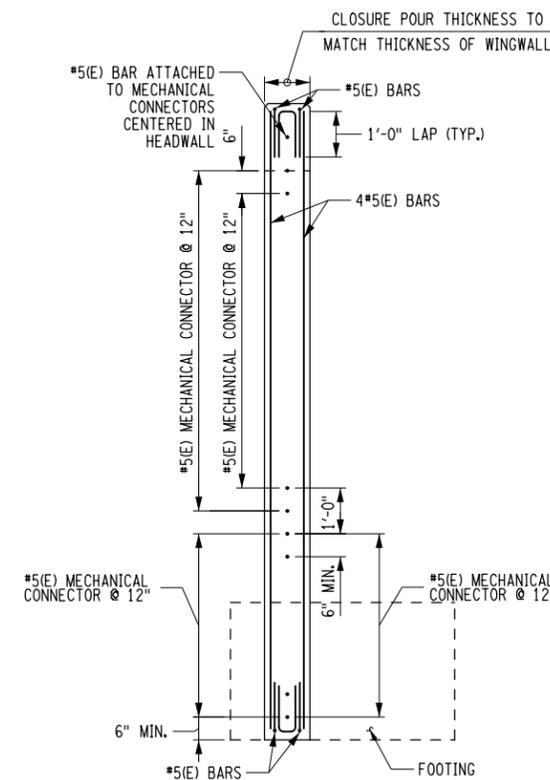


JOINT DETAIL
NOT TO SCALE

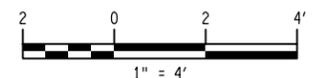
THIS DETAIL SHOWN IS AN EXAMPLE. OTHER DETAILS MAY BE PROPOSED FOR EVALUATION BY THE ENGINEER.



CLOSURE POUR DETAIL



SECTION C-C
CLOSURE POUR REINFORCEMENT SECTION



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER REGION: 8	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020	BIN 2265539		CONNECTION/CLOSURE POUR DETAILS	DRAWING NO. HB-17 SHEET NO. 22
			HILL BOULEVARD	

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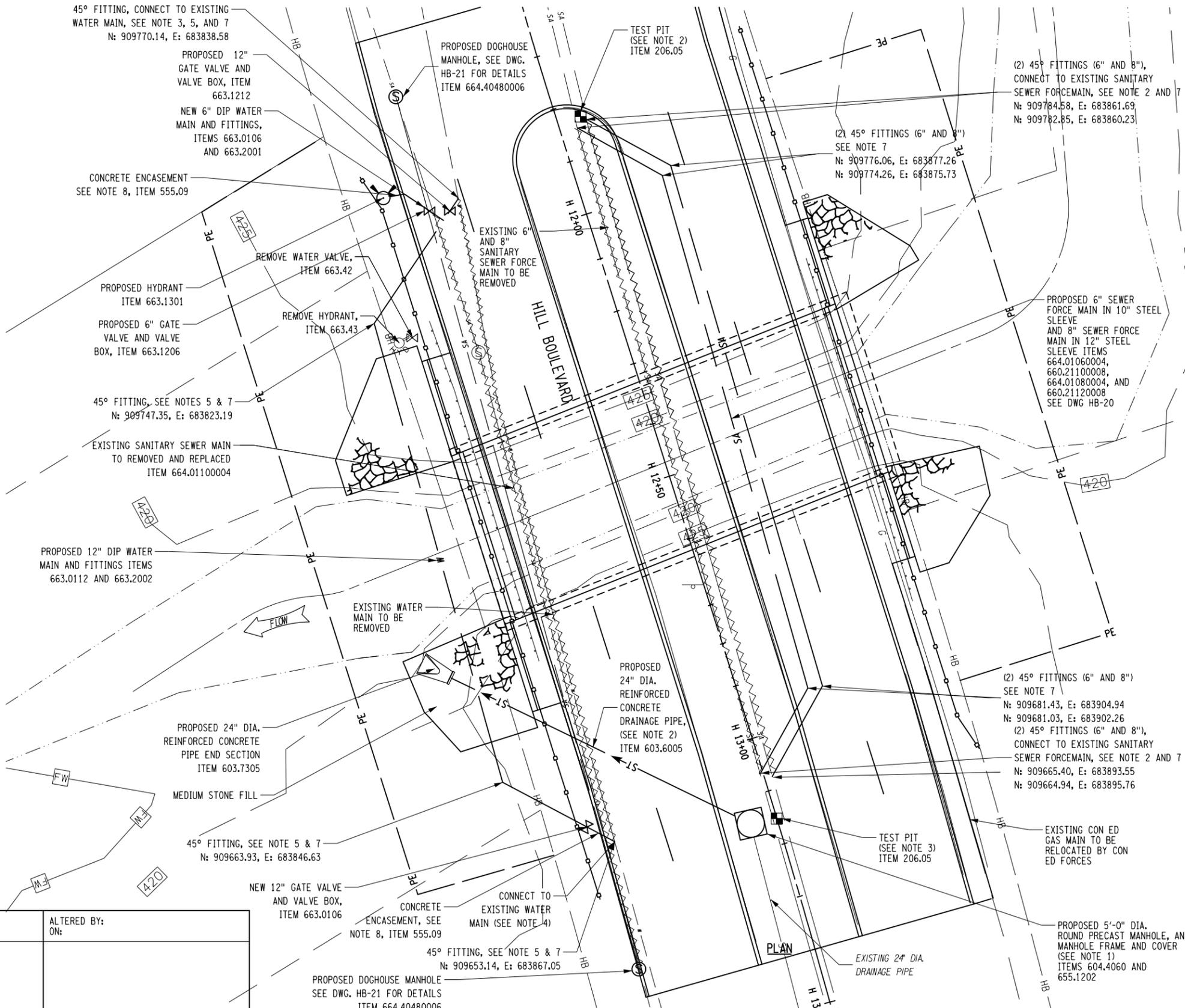
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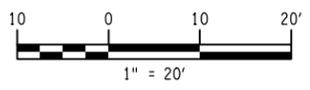


REFERENCES:

- FOR GENERAL NOTES, SEE DWG. NOS. GNN-1 AND GNN-2.
- FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. HB-8
- FOR EXCAVATION LIMITS DETAILS, SEE DWG. NO. HB-9
- FOR TYPICAL CROSS SECTIONS, SEE DWG. NO. HB-3.
- FOR UTILITY PROFILES, SEE DWG. NO. HB-20
- FOR UTILITY DETAILS, SEE DWG. NO. HB-21 WMD-1 THRU WMD-3.

NOTES:

- PROPOSED MANHOLE TO MEET ELEVATION OF EXISTING DRAIN PIPE. CONTRACTOR TO FIELD VERIFY.
- CONTRACTOR TO PERFORM TEST PIT AND PROVIDE ENGINEER WITH THE HORIZONTAL AND VERTICAL CLEAR DISTANCES BETWEEN THE EXISTING 24-INCH DRAINAGE PIPE AND THE EXISTING 8-INCH SEWER FORCE MAIN AND THE INVERT ELEVATIONS OF THE DRAINAGE PIPE FOR REVIEW PRIOR TO PERFORMING AND ASSOCIATED UTILITY RELOCATION WORK. TEST PITS SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO SHOP DRAWING APPROVALS FOR ALL MATERIALS OR STRUCTURES TO BE INSTALLED AT OR BELOW GRADE. THE CONTRACTOR SHALL CONFIRM THE UTILITY LOCATIONS WITH THE UTILITY OWNER BEFORE BEGINNING EXCAVATION. IF A CONFLICT IS CONFIRMED, THE CONTRACTOR SHALL CEASE OPERATIONS AT THE CONFLICT LOCATION AND NOTIFY THE ENGINEER AND UTILITY OWNER IMMEDIATELY. THIS SCENARIO SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR OR JUSTIFICATION FOR DELAY CLAIM. THE CONTRACTOR SHALL BE PREPARED TO CONTINUE WORK AT UNAFFECTED LOCATIONS WITHIN THE PROJEC TLIMITS 9AS APPROVED BY THE ENGINEER) IN THE INTERIM PERIOD WHILE THE ENGINEER AND UTILITY OWNER DETERMIN HOW TO PROCEED. THE CONTRACTOR MAY BE REQUIRED TO PERFORM ADDITIONAL TEST PITS IN ADDITION TO TEST PITS SHOWN ON THE PLANS AS ORDERED BYT THE ENGINEER. IT SHALL BE PAID FOR UNDER ITEM 206.05.
- CONTRACTOR TO VERIFY TYPE OF EXISTING WATER MAIN PIPE. IF TYPE IS DISSIMILAR VS. THE PROPOSED PIPE, CONNECT TO EXISTING WATER MAIN WITH MEGALUG 3800 FITTING OR APPROVED EQUAL.
- SEE WATER MAIN AND SANITARY SEWER FORCEMAIN PROFILES FOR APPROXIMATE LOCATION OF VERTICAL BENDS.
- 3"-8" IRON WATER MAIN FITTING SHALL BE PAID FOR UNDER ITEM 663.2001. 10"-16" IRON WATER MAIN FITTINGS SHALL BE PAID FOR UNDER ITEM 663.2002.
- TRENCH AND CULVERT EXCAVATION SHALL BE PAID FOR UNDER ITEM 206.0201.
- COORDINATES GIVEN TO ASSIST CONTRACTOR IN LOCATING UNDERGROUND UTILITIES A PROPER DEPTH AND HORIZONTAL LOCATION. ACTUAL LOCATION TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY ENGINEER BEFORE INSTALLATION.
- WATER MAIN SHALL BE ENCASED IN CONCRETE WITHIN 10 FEET OF THE SANITARY SEWER MAIN. SEE DWG HB-21 FOR ENCASUREMENT DETAILS.



AFFIX SEAL: ON:	ALTERED BY: ON:
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020	BIN 2265539		UTILITY PLAN	DRAWING NO. HB-19
	TOWN OF YORKTOWN				HILL BOULEVARD	SHEET NO. 24
	COUNTY: WESTCHESTER	REGION: 8				

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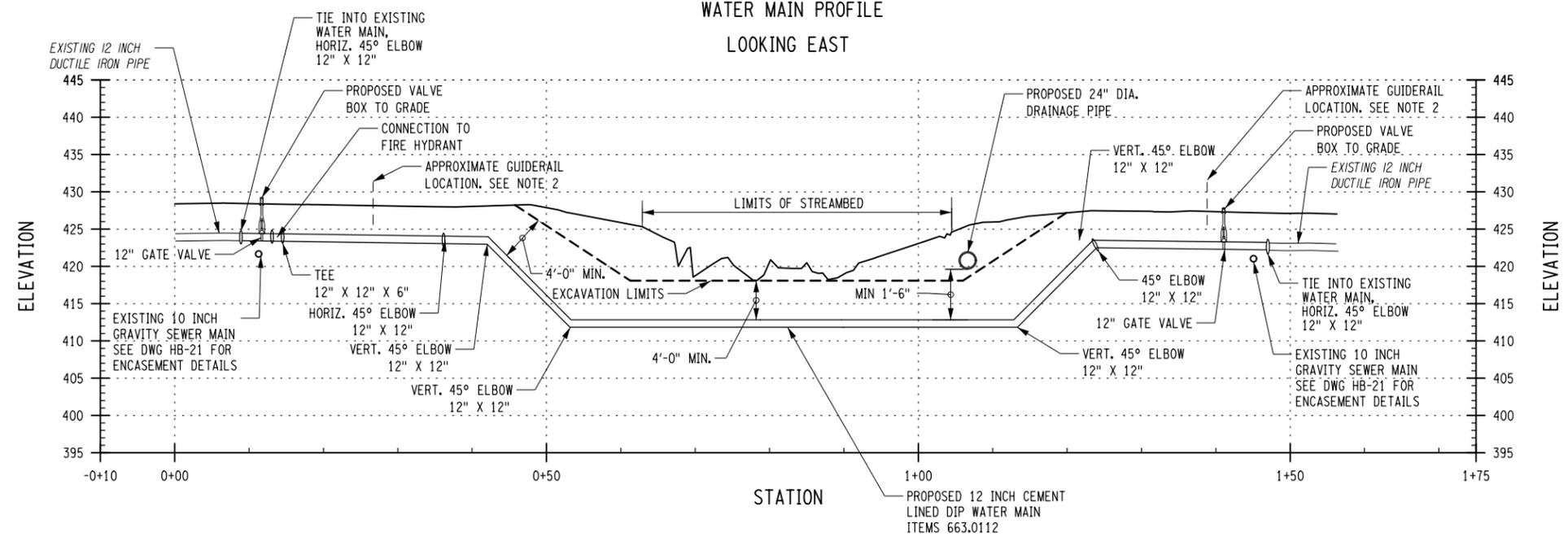
REFERENCES:

- FOR GENERAL NOTES, SEE DWG. NOS. GNN-1 AND GNN-2.
- FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. HB-8
- FOR EXCAVATION LIMITS DETAILS, SEE DWG. NO. HB-9.
- FOR TYPICAL CROSS SECTIONS, SEE DWG. NO. HB-3.
- FOR UTILITY PLAN, SEE DWG. NO. HB-19
- FOR UTILITY DETAILS, SEE DWG. NOS. HB-21 WMD-1 THRU WMD-3.
- FOR SANITARY SEWER BYPASS PLAN, SEE DWG. NO. HB-22.

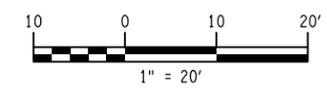
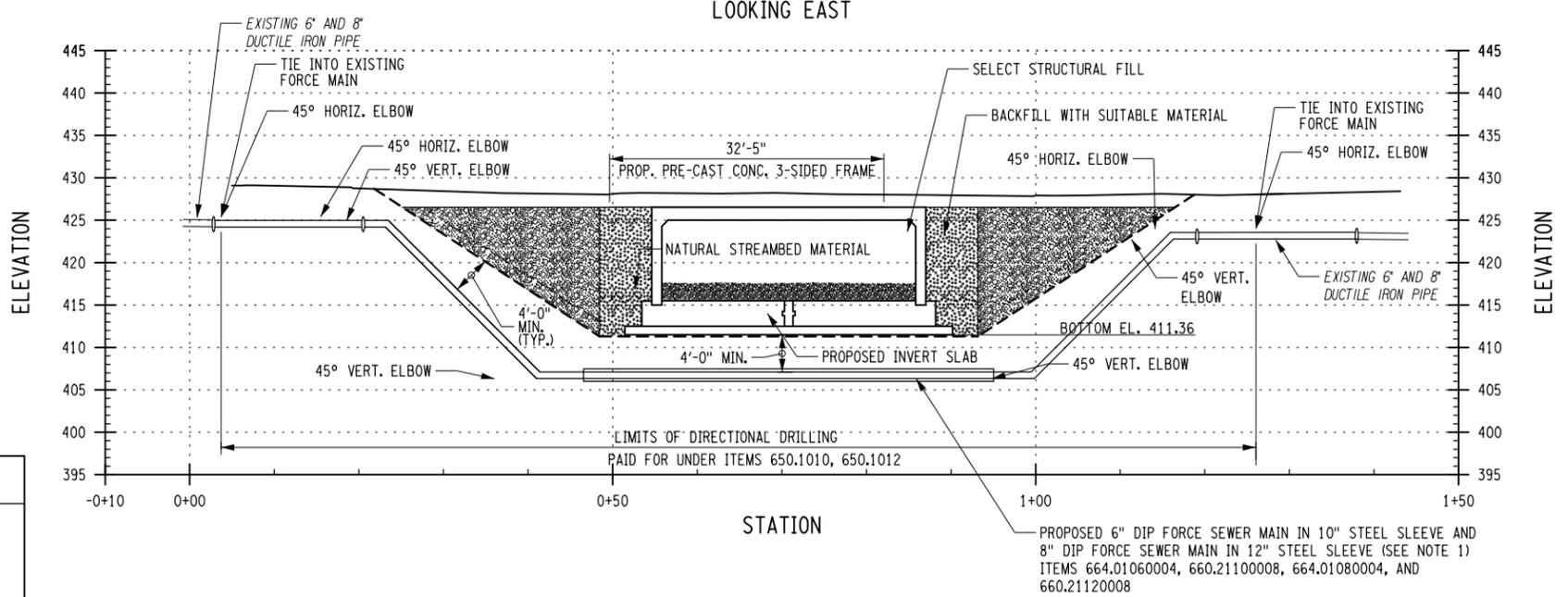
NOTES:

- FORCE MAIN SHALL BE INSTALLED USING DIRECTIONAL DRILLING. PAYMENT SHALL BE INCLUDED UNDER ITEM 664.01060004 AND 664.01080004.
- GUIDERAIL POST SPACING SHALL BE COORDINATED BY CONTRACTOR TO AVOID THE PROPOSED WATER MAIN.

**WATER MAIN PROFILE
LOOKING EAST**



**SEWER MAIN PROFILE
LOOKING EAST**

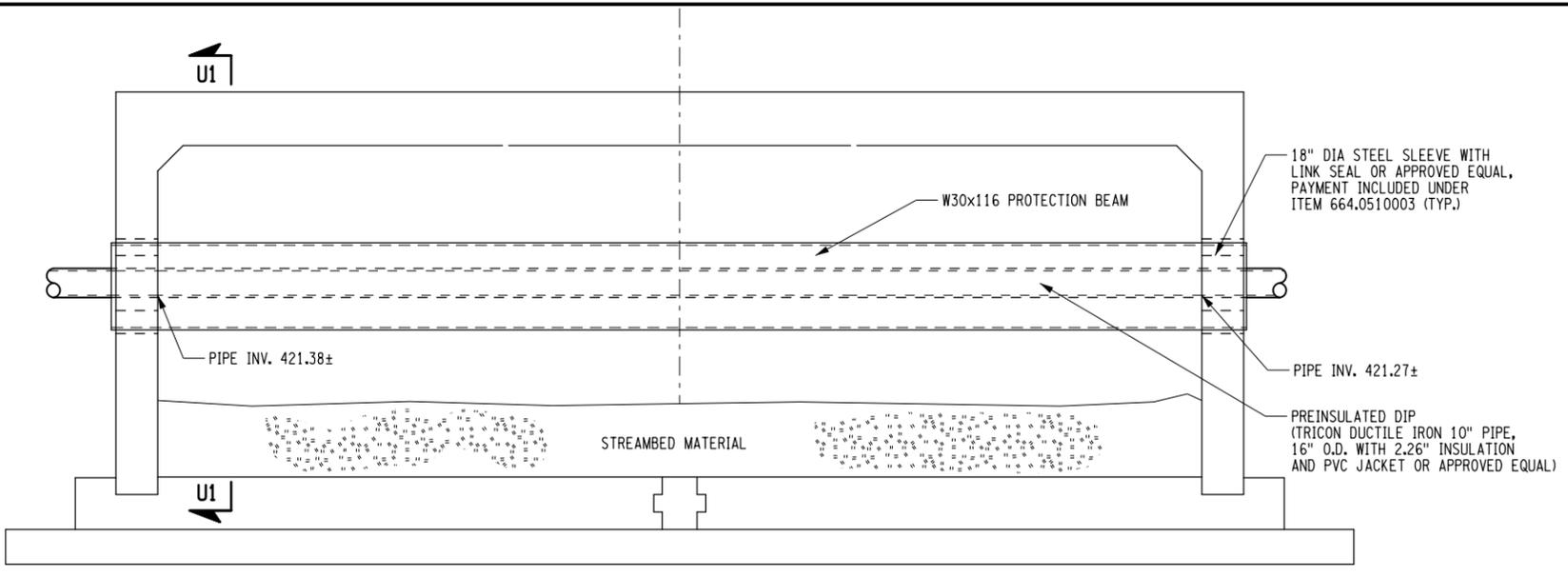


AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	
PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	
BRIDGES BIN 2265539	
CULVERTS	
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
UTILITY PROFILES	
HILL BOULEVARD	
CONTRACT NUMBER	
DRAWING NO. HB-20 SHEET NO. 25	

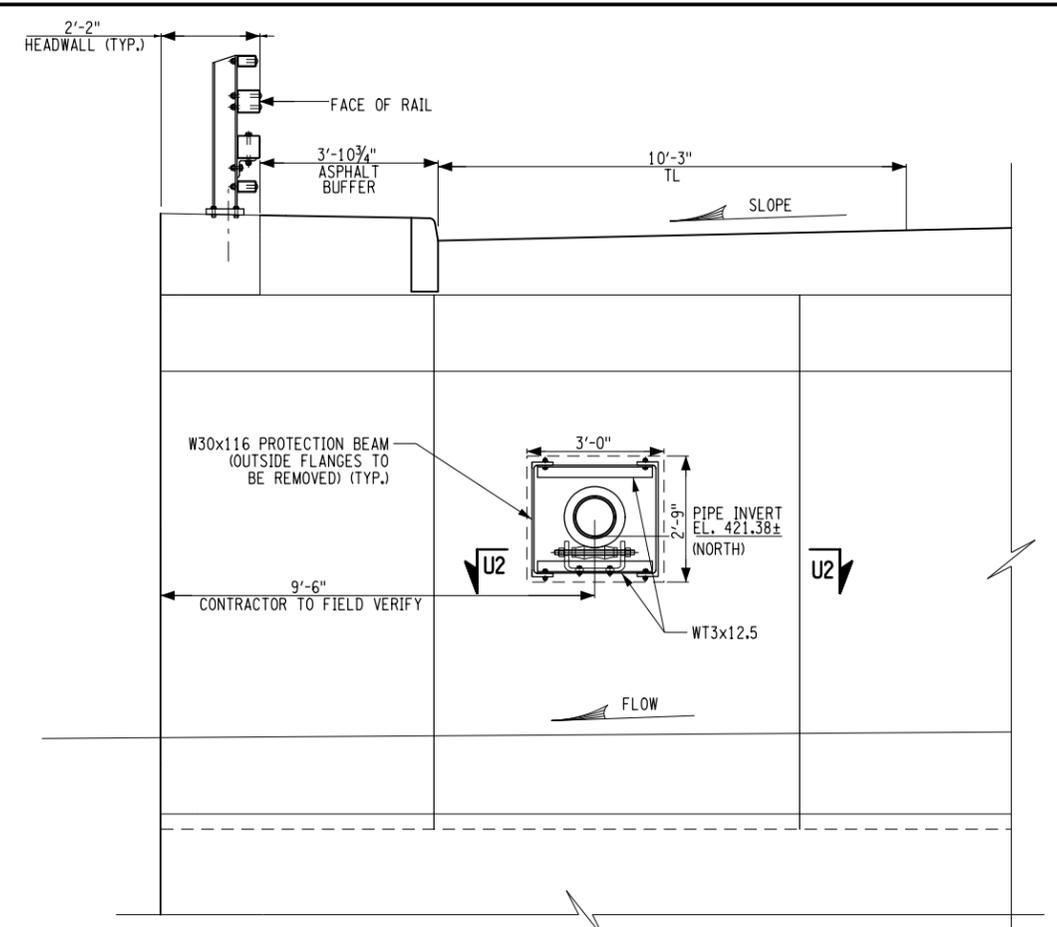
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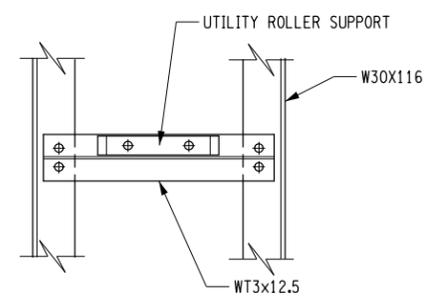
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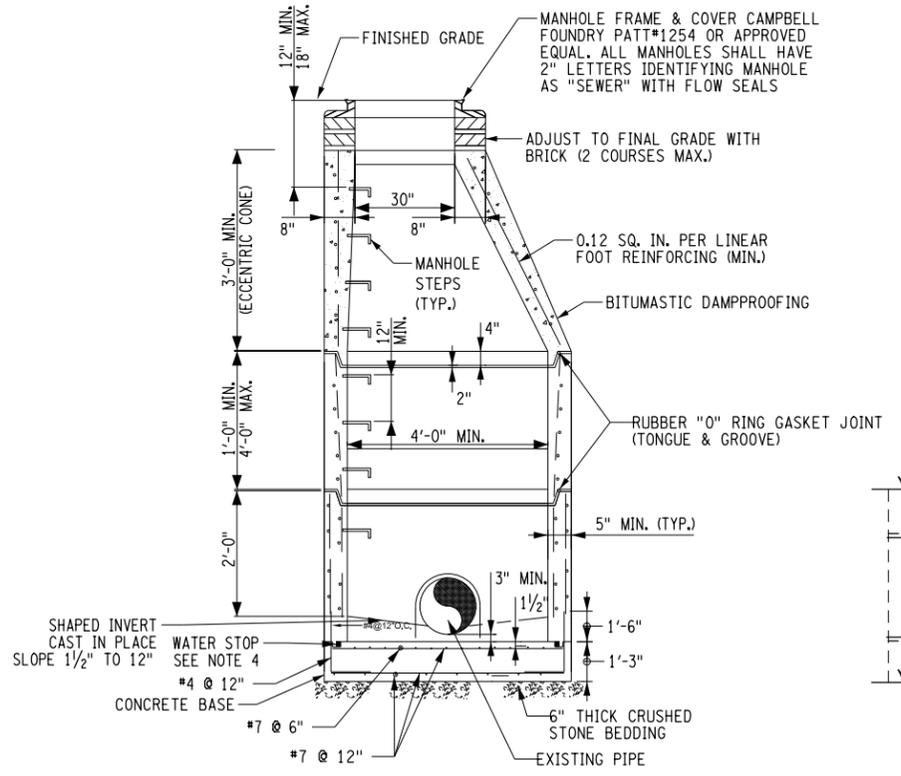
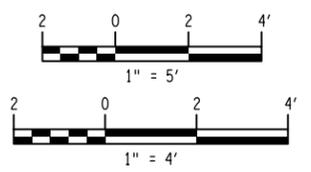
**PROPOSED SEWER PIPE SUPPORT ELEVATION
 LOOKING EAST**



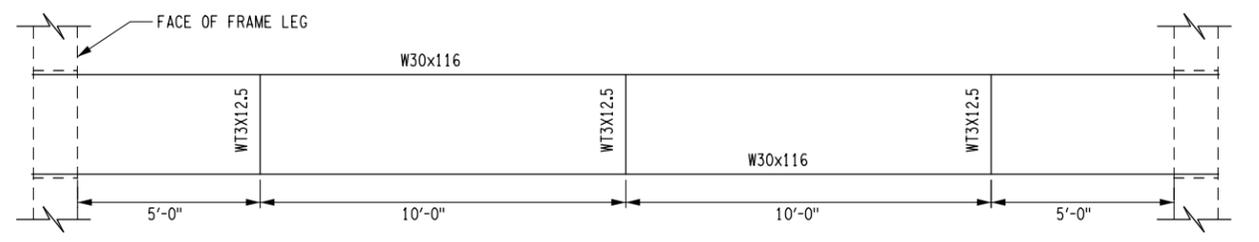
SECTION U1-U1



**SECTION U2-U2
 (N.T.S.)**



**DOGHOUSE MANHOLE DETAIL
 N.T.S.**



PROTECTION SYSTEM FRAMING PLAN

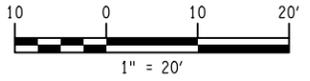
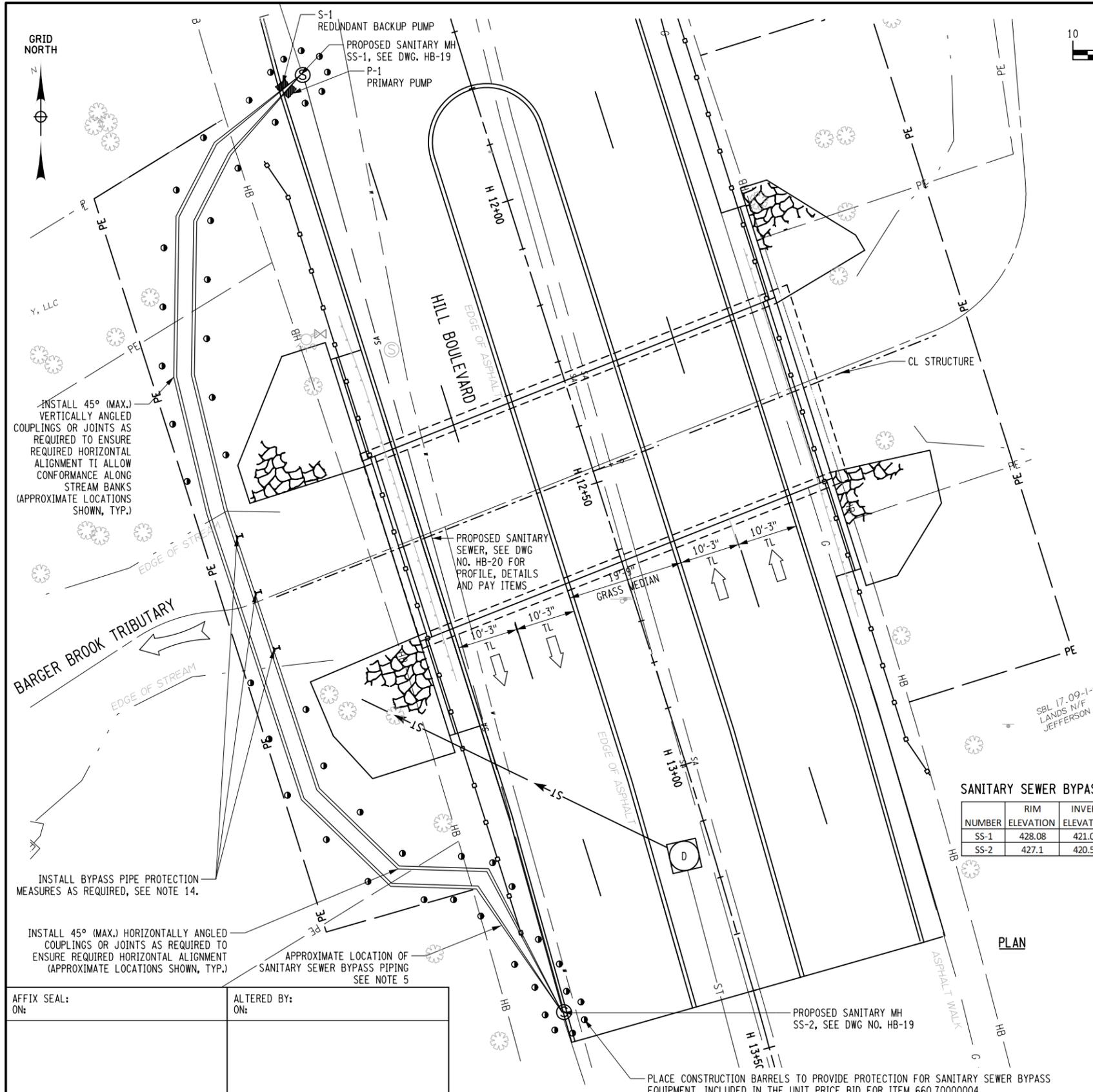
- NOTES:**
- SEWER PIPE ROLLER SUPPORTS SHALL BE PAID FOR UNDER ITEM 664.05160003.
 - STRUCTURAL STEEL SHALL BE PAID FOR UNDER ITEM 564.0501.
 - BOLTS SHALL BE 5/8" DIA., A325 STEEL

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
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.	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	PS&E DATE: MARCH 2020	BIN 2265539	UTILITY DETAILS		DRAWING NO. HB-21 SHEET NO. 26
	HILL BOULEVARD				

FILE NAME =
 DATE/TIME = DATE: 3/2/2020 11:22:02 AM
 USER = PLOTTED BY: USJ504206

DESIGN SUPERVISOR MM
 JOB MANAGER DW
 DESIGN NS
 CHECK JS
 DRAFTING JS
 CHECK NS
 PROJECT MANAGER DW



NOTES:

- THIS PLAN IS CONCEPTUAL IN NATURE AND DEPICTS A SUGGESTED LAYOUT AND SEQUENCE OF WORK.
- ELEVATION INFORMATION PROVIDED IN THE MANHOLE TABLE SHALL BE USED IN THE CONTRACTOR'S SANITARY SEWER BYPASS SYSTEM CALCULATIONS AND IS NOT CONCEPTUAL.
- TEMPORARY BYPASS SYSTEM DESIGN AND CALCULATIONS SHALL BE COMPLETED IN ACCORDANCE WITH "SPECIAL NOTE - MAINTENANCE OF SANITARY SEWER FLOWS" AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. TEMPORARY BYPASS SYSTEM SHALL BE PAID FOR UNDER ITEM 660.70000004.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL LAYOUT TO BE UTILIZED IN HIS DESIGN CALCULATIONS AND BE IMPLEMENTED IN THE FIELD.
- TEMPORARY BYPASS PIPE SHALL BE SIZED BY THE PUMP SUPPLIER BASED ON ACTUAL FIELD CONDITIONS AND CONFIGURATION. CONTRACTOR SHALL SUBMIT ACTUAL BYPASS PLAN TO THE ENGINEER FOR REVIEW DURING SHOP DRAWING PROCESS.
- BYPASS PIPING BENDS SHOWN ARE CONCEPTUAL IN NATURE AND ARE INCLUDED ON THIS PLAN TO SHOW THE MINIMUM ACCEPTABLE CONDITIONS FOR VERTICAL AND HORIZONTAL BYPASS PIPE LAYOUT. THE CONTRACTOR SHALL INCLUDE LOCATION AND ANGLE OF ALL PIPE BENDS ON THE SHOP DRAWINGS FOR THE ENGINEER'S APPROVAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ACTUAL LAYOUT SIGNIFICANTLY DIFFERS FROM CONCEPTUAL LAYOUT.
- THE CONTRACTOR SHALL FIELD VERIFY REQUIRED CLEARANCES FOR THE SANITARY SEWER BYPASS LAYOUT AND INCLUDE CRITICAL DIMENSIONS ON THE SHOP DRAWINGS
- CONTRACTOR SHALL INCLUDE ALL PROPOSED SYSTEM CHARACTERISTICS WITH DESIGN CALCULATIONS FOR THE ENGINEER'S REVIEW.
- THE CONTRACTOR SHALL SCHEDULE AND PERFORM WORK IN MANNER THAT DOES NOT CAUSE OR CONTRIBUTE TO INCIDENCE OF OVERFLOWS, BACKFLOW, RELEASES OR SPILLS OF SEWAGE FROM SANITARY SEWER SYSTEM OR BYPASS OPERATION.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER SHOULD A SANITARY SEWER OVERFLOW (SSO) OCCUR AND TAKE THE NECESSARY ACTION TO CLEAN UP AND DISINFECT THE SPILLAGE TO THE SATISFACTION OF THE OWNER AND APPLICABLE REGULATORY AGENCIES.
- ANY PUNITIVE ACTION TAKEN AGAINST THE OWNER AND OR ENGINEER DUE TO AN UNTIMELY NOTIFICATION BY THE CONTRACTOR, SHALL BE A LIABILITY BORNE SOLELY ON THE CONTRACTOR.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY REGULATORY ACTION (INCLUDING: MONETARY, CIVIL OR CRIMINAL ACTIONS) CAUSED BY SYSTEM FAILURE, IMPROPER OPERATION OR NEGLIGENCE THAT CREATES A SEWAGE SPILL.
- THE CONTRACTOR SHALL BE AWARE THAT THE BYPASS PUMPING SYSTEM IS LOCATED WITHIN A FEMA REGULATED FLOOD ZONE AND IS SUBJECT TO FLUCTUATING WATER LEVELS DURING PRECIPITATION EVENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, INSTALLING AND MAINTAINING ADEQUATE MEASURES TO PROTECT THE SEWER BYPASS PIPING, PUMPS AND OTHER APPURTENANCES FROM INCREASED RIVER FLOW, VELOCITY, TURBULENCE AND FLOOD WATERS PRESENT DURING STORM EVENTS. BYPASS PIPING SHALL BE BURIED AT STREAM CROSSING AT A MINIMUM DEPTH OF 2 FT AND SHALL REMAIN BURIED UNTIL BYPASS PIPE CLEARS LIMITS OF ORDINARY HIGH WATER.
- PROTECTION MEASURES FOR PIPING SHALL BE INSTALLED AT OR NEAR PIPE COUPLINGS OR JOINTS DIRECTLY IMPACTED BY THE CHANGING RIVER FLOW. THE NATURAL FLEXIBILITY OF THE PIPE MATERIAL SHALL BE UTILIZED WHILE PROTECTING JOINTS FROM DEFLECTION WHERE APPLICABLE.
- THE BYPASS SYSTEM SHALL BE CALIBRATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AT THE TIME OF INITIAL OPERATION. THE SYSTEM SHALL BE CALIBRATED TO:
 - MAINTAIN MINIMUM SEWAGE ELEVATIONS IN THE INFLUENT DISCHARGE (MANHOLE NO. BP-1) TO PROVIDE POSITIVE PUMP SUCTION AND ENSURE NO SEWAGE DISCHARGE OR BACKFLOW INTO THE UPSTREAM SYSTEM AND THE SUBSEQUENT FACILITIES OR STRUCTURES SERVICED BY THE SANITARY SEWER SYSTEM.
 - REQUIRED ELEVATIONS SHALL BE DETERMINED BASED ON UPSTREAM SANITARY SEWER SYSTEM CHARACTERISTICS AND PUMP SUCTION HEAD REQUIREMENTS. CONSULTATION WITH VILLAGE PUBLIC WORKS STAFF SHALL BE REQUIRED WHEN DETERMINING SAFE OPERATING ELEVATIONS OF THE SUCTION HEAD PRESENT IN THE BYPASS MANHOLE. THIS MAY REQUIRE LOWERING AND/OR RECONSTRUCTION OF THE INFLUENT MANHOLE'S BOTTOM SLAB AND ASSOCIATED RISER. THIS SHALL BE DETERMINED BY PUMP PROVIDER.
 - ENSURE THAT THE DISCHARGE STRUCTURE (MANHOLE SS-4) AND DOWNSTREAM SANITARY SEWER SYSTEM CAN HANDLE THE INFLOW FROM THE BYPASS PUMP SYSTEM
- WHEN REQUIRED, THE CONTRACTOR SHALL PROVIDE A QUALIFIED OPERATOR FOR THE SANITARY SEWER BYPASS SYSTEM.
- PUMP OPERATOR SHALL BE CAPABLE OF MONITORING ALL REQUIRED INFORMATION AND ADJUSTING PUMP OPERATION TO OPERATE WITHIN SPECIFIED LIMITS, AS DETERMINED DURING ONSITE CALIBRATIONS.

SANITARY SEWER BYPASS MANHOLE TABLE

NUMBER	RIM ELEVATION	INVERT ELEVATION	STATION	OFFSET	DESCRIPTION
SS-1	428.08	421.04	11+69.63	27.16	INFLUENT/SUCTION
SS-2	427.1	420.55	13+34.67	32.16	DISCHARGE

SANITARY SEWER BYPASS PUMP TABLE

NUMBER	REQUIRED PEAK CAPACITY (GPM)	MAX ALLOWABLE BEND (DEGREES)	TELEMETRY REQUIRED	FLOAT ACTIVATION SYSTEM REQUIRED	ALLOWABLE POWER SUPPLY POWER	SOUND ATTENUATION ENCLOSURE REQUIRED	DESCRIPTION	24 HOUR ONSITE MONITORING REQUIRED	INSPECTION INTERVAL (HR)
P-1	2,200	45	YES	YES	ELECTRIC	NO	PRIMARY PUMP	NO	2
S-1	2,200	45	NO	YES	DIESEL OR ELECTRIC	*YES	BACKUP PUMP	**YES	2

*IF DIESEL
 **24 HOUR MONITORING REQUIRED ONLY IF TELEMETRY IS NOT AVAILABLE OR PUMP 1 IS UNDERGOING MAINTENANCE

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					
TOWN OF YORKTOWN	PS&E DATE: MARCH 2020	BIN 2265539	SANITARY SEWER BYPASS PLAN			DRAWING NO. HB-22
COUNTY: WESTCHESTER REGION: 8	HILL BOULEVARD			SHEET NO. 27		

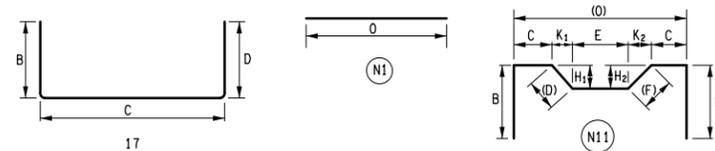


MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R										
HILL BOULEVARD WINGWALL 1 FOOTING																													
4CE1	10	16-6	N1	110													16-6/4												
4CE2	19	14-9	T1	187	0-4/2	4-6	2-6	4-6	2-6		0-4/2	0-3/4																	
4CE3	19	6-10	17	87		2-2	2-6	2-2																					
4CE4	2	8-10	17	12		2-2	4-6	2-2																					
SUBTOTAL EPOXY BARS				396	LB	THIS POUR																							
HILL BOULEVARD WINGWALL 2 FOOTING																													
4CE1	10	17-10	N1	119													17-10												
4CE2	8	6-10	17	36		2-2	2-6	2-2																					
4CE3	20	14-9	T1	197	0-4/2	4-6	2-6	4-6	2-6		0-4/2	0-3/4																	
4CE4	2	8-10	17	12		2-2	4-6	2-2																					
SUBTOTAL EPOXY BARS				365	LB	THIS POUR																							
HILL BOULEVARD WINGWALL 3 FOOTING																													
4CE1	10	16-3	1	108	0-0	16-2/2					0-0			0-0															
4CE2	8	6-10	17	36		2-2	2-6	2-2																					
4CE3	8	14-0	T1	75	0-0	4-6	2-6	4-6	2-6		0-0	0-0																	
4CE4	8	8-10	17	47		2-2	4-6	2-2																					
SUBTOTAL EPOXY BARS				267	LB	THIS POUR																							
HILL BOULEVARD WINGWALL 4 FOOTING																													
4CE1	10	15-11	N1	106													15-11												
4CE2	8	6-10	17	36		2-2	2-6	2-2																					
4CE3	8	14-9	T1	79	0-4/2	4-6	2-6	4-6	2-6		0-4/2	0-3/4																	
4CE4	2	8-10	17	12		2-2	4-6	2-2																					
SUBTOTAL EPOXY BARS				233	LB	THIS POUR																							
HILL BOULEVARD CUT-OFF WALL EAST																													
4CE1	6	35-0	N1	140													35-0												
4CE2	6	5-4	17	21		2-2	1-0	2-2																					
4CE3	36	5-9	T1	138	0-4/2	1-0	1-6	1-0	1-6		0-4/2	0-3/4																	
5CE4	30	2-0	N1	63													2-0												
SUBTOTAL EPOXY BARS				363	LB	THIS POUR																							
HILL BOULEVARD CUT-OFF WALL WEST																													
4CE1	6	35-0	N1	140													35-0												
4CE2	6	5-4	17	21		2-2	1-0	2-2																					
4CE3	36	5-9	T1	138	0-4/2	1-0	1-6	1-0	1-6		0-4/2	0-3/4																	
5CE4	30	2-0	N1	63													2-0												
SUBTOTAL EPOXY BARS				363	LB	THIS POUR																							
HILL BOULEVARD CLOSURE POUR WINGWALL 1																													
5CE1	6	2-8	17	17		1-0	0-8	1-0																					
5CE2	2	3-11	17	8		1-0	1-11	1-0																					
5CE3	4	17-5	N1	73													17-5												
5CE4	2	12-5	N1	26													12-5												
5CE5	12	0-11	N1	11													0-11												
5CE6	26	2-2	N1	59													2-2												
SUBTOTAL EPOXY BARS				194	LB	THIS POUR																							

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R										
HILL BOULEVARD CLOSURE POUR WINGWALL 2																													
5CE1	6	2-8	17	17		1-0	0-8	1-0																					
5CE2	2	3-11	17	8		1-0	1-11	1-0																					
5CE3	4	17-5	N1	73															17-5										
5CE4	2	12-5	N1	26															12-5										
5CE5	12	0-11	N1	11															0-11										
5CE6	26	2-2	N1	59															2-2										
SUBTOTAL EPOXY BARS				194	LB	THIS POUR																							
HILL BOULEVARD CLOSURE POUR WINGWALL 3																													
5CE1	6	2-8	17	17		1-0	0-8	1-0																					
5CE2	2	3-11	17	8		1-0	1-11	1-0																					
5CE3	4	17-5	N1	73															17-5										
5CE4	2	12-5	N1	26															12-5										
5CE5	12	0-11	N1	11															0-11										
5CE6	26	2-2	N1	59															2-2										
SUBTOTAL EPOXY BARS				194	LB	THIS POUR																							
HILL BOULEVARD CLOSURE POUR WINGWALL 4																													
5CE1	6	2-8	17	17		1-0	0-8	1-0																					
5CE2	2	3-11	17	8		1-0	1-11	1-0																					
5CE3	4	17-5	N1	73															17-5										
5CE4	2	12-5	N1	26															12-5										
5CE5	12	0-11	N1	11															0-11										
5CE6	12	2-2	N1	27															2-2										
SUBTOTAL EPOXY BARS				162	LB	THIS POUR																							
HILL BOULEVARD HEADWALL 1																													
5CE1	60	2-8	17	167		0-10	1-10	0-0																					
5CE2	7	31-8	N1	231															31-8										
SUBTOTAL EPOXY BARS				398	LB	THIS POUR																							
HILL BOULEVARD HEADWALL 2																													
3AE1	60	2-8	17	60		0-10	1-10	0-0																					
3AE2	7	31-8	N1	83															31-8										
SUBTOTAL EPOXY BARS				144	LB	THIS POUR																							
HILL BOULEVARD INVERT SLAB																													
6CE1	140	39-3	N1	8244															39-2/2										
8CE2	77	29-6	N1	6065															29-6										
6CE3	154	14-10	N11	3431		2-6	4-9	0-5	2-0	0-5		0-5	0-5		0-0	0-0	0-0	11-6											
8CE4	77	34-6	N1	7092															34-6										
6CE5	140	9-0	17	1893		3-3	2-6	3-3																					
6CE6	8	8-7	17	103		3-3	2-1	3-3																					
SUBTOTAL EPOXY BARS				26828	LB	THIS POUR																							

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

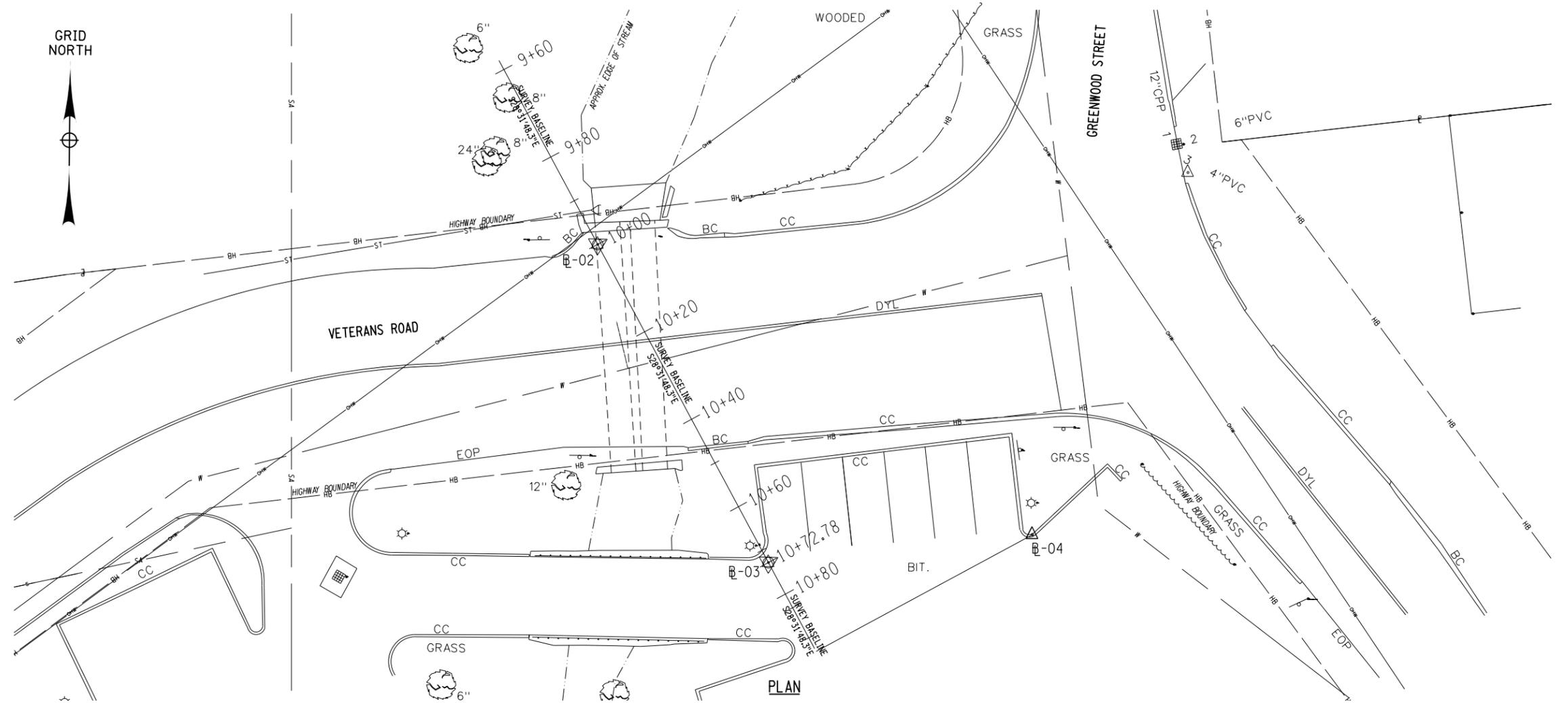


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES BIN 2265539	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					BARLIST
	TOWN OF YORKTOWN					DRAWING NO. HB-23
	COUNTY: WESTCHESTER	REGION: 8			HILL BOULEVARD	SHEET NO. 28
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.						

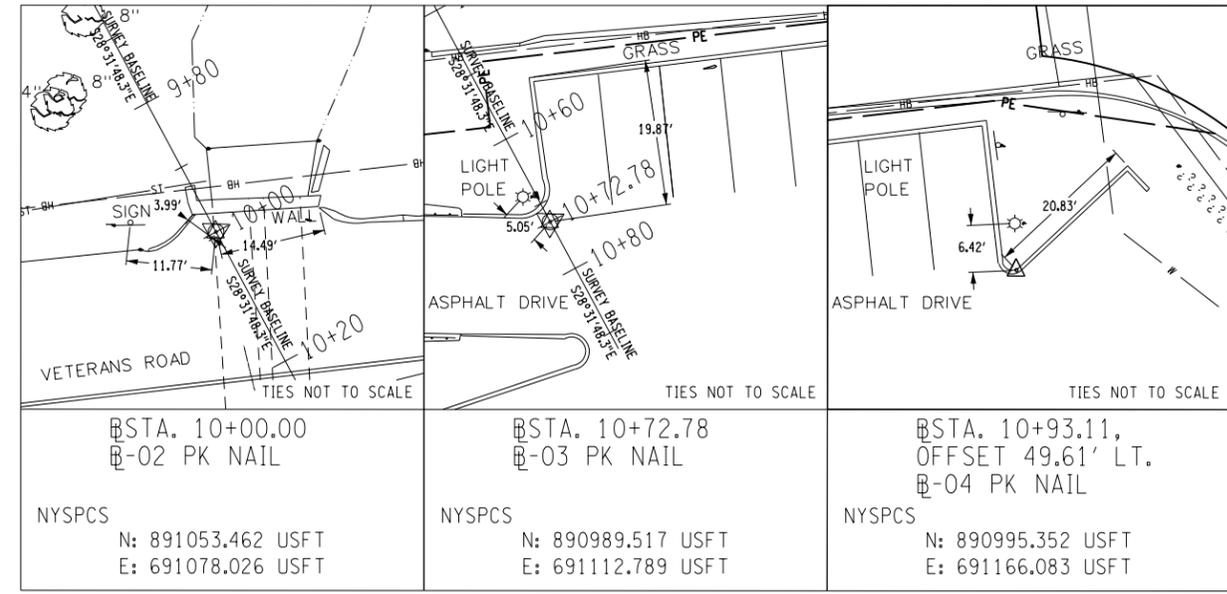


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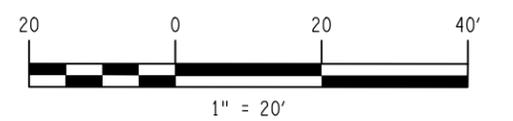


PLAN



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					TOWN OF YORKTOWN
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.					VETERANS ROAD	DRAWING NO. VR-1 SHEET NO. 29

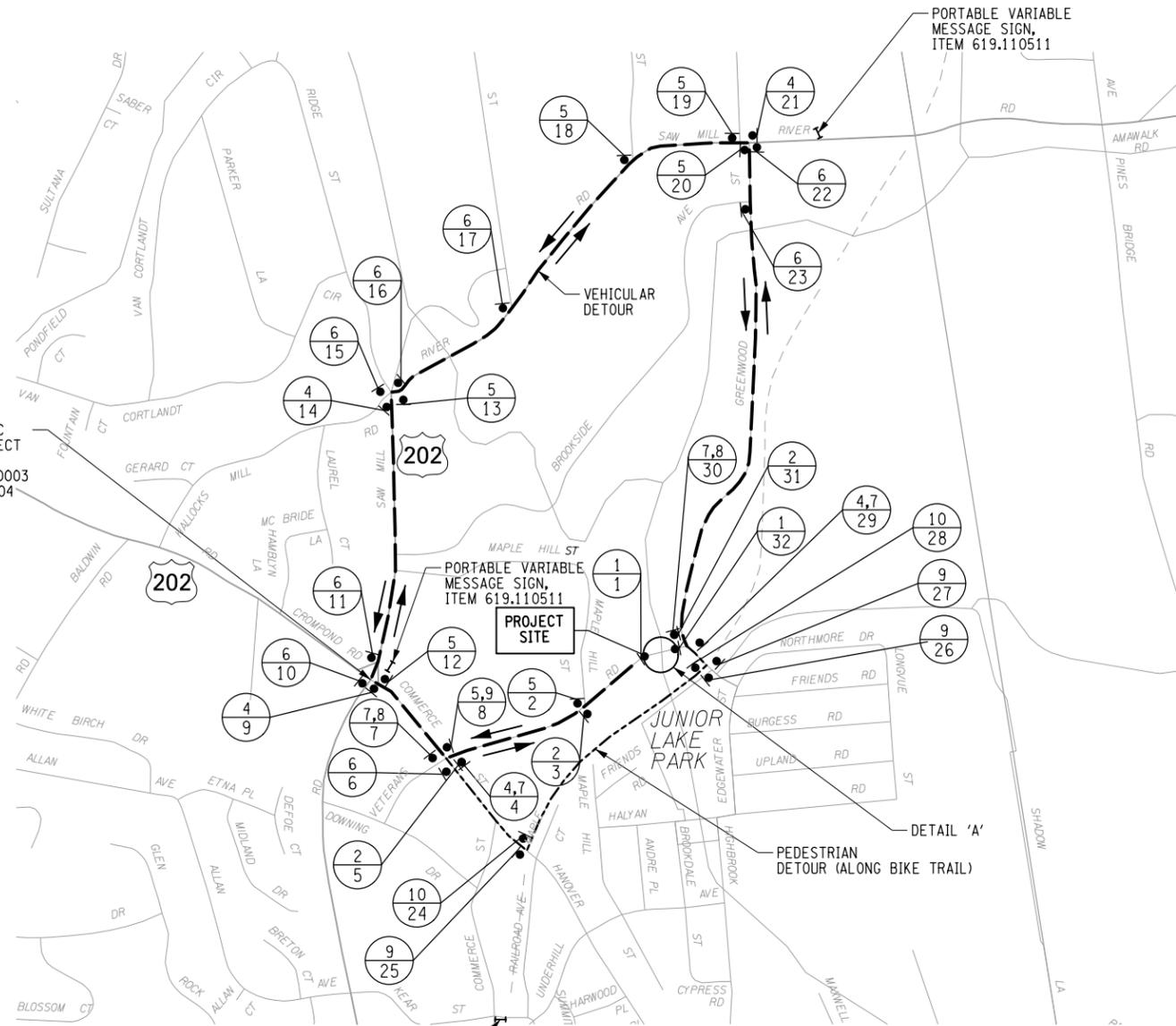


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 DESIGN SUPERVISOR MM

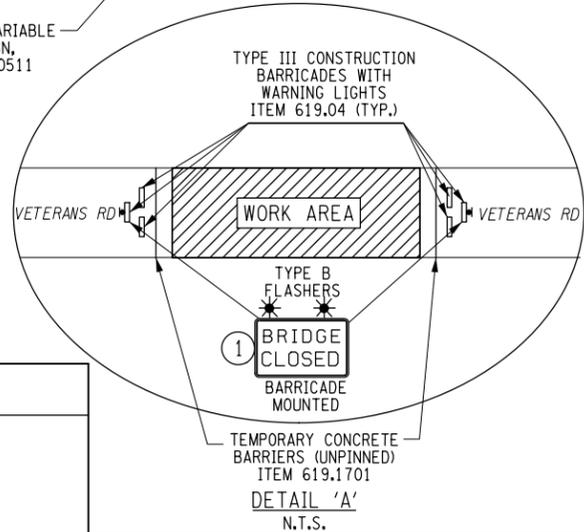


INSTALL TRAFFIC SIGNAL DISCONNECT BOX AND MODEM ITEMS 608.94010003 AND 683.08020104



DETOUR PLAN N.T.S.

PORTABLE VARIABLE MESSAGE SIGN, ITEM 619.110511



MPT NOTES:

1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH "THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE NEW YORK STATE SUPPLEMENT (2010 ED.), AND THE CONTRACT DOCUMENTS THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MAY BE REVISED BY THE ENGINEER-IN-CHARGE TO MEET FIELD CONDITIONS (DRIVEWAYS, ROADWAY ALIGNMENTS, ETC.)
3. THE SIGNING SHOWN IS MINIMUM ONLY. ADDITIONAL SIGNING MAY BE REQUIRED TO MEET TRAFFIC AND/OR FIELD CONDITIONS.
4. DURING NON WORKING HOURS, ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED IN THE CLOSED PORTION OF THE ROADWAY BEHIND THE TRAFFIC BARRIERS.
5. ALL PRIVATE VEHICLES SHALL BE PARKED OUTSIDE THE WORK ZONE AND OFF THE TRAVELED WAY.
6. FOR SIGN POSITIONING DETAILS, SEE STANDARD SHEET 645-03.
7. SIGNS AND SIGN POSTS ARE TO BE PAID FOR UNDER ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL. SIGN POSTS SHALL MEET THE REQUIREMENTS OF ITEM 645.81 BUT SHALL BE PAID FOR UNDER ITEM 619.01.
8. SHOULD FIELD CONDITIONS DICTATE THE NEED, SIGNS MAY BE INSTALLED ON TEMPORARY WOODEN SUPPORTS AS PER NYS DOT STANDARD SHEET 619-04. THE ENGINEER SHALL BE CONSULTED BEFORE PERFORMING SUCH AN INSTALLATION.
9. FOR BIKE TRAIL SIGNAGE, CONTACT DAVID DeLUCIA AT WESTCHESTER COUNTY PARKS: (914) 231-4570.

SIGN #	MUTCD #	LOCATION	TEXT	SIZE (IN)
①	R11-2 (MOD)	1, 32	BRIDGE CLOSED	48 X 30
②	R11-3B (MOD)	3, 5, 31	BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY	60 X 30
④	M4-9	4, 9, 14, 21, 29	VETERANS RD DETOUR ↑	30 X 12 30 X 24
⑤	M4-9R	2, 8, 12, 13, 18, 19, 20	VETERANS RD DETOUR →	30 X 12 30 X 24
⑥	M4-9L	6, 10, 11, 15, 16, 17, 22, 23	VETERANS RD DETOUR ←	30 X 12 30 X 24
⑦	M4-8A	4, 7, 29, 30	END DETOUR	24 X 18
⑧	M4-9AA	7, 30	VETERANS RD DETOUR ↑	30 X 12 30 X 24
⑨	M4-9AL	8, 25, 26, 27	VETERANS RD DETOUR ←	30 X 12 30 X 24
⑩	M4-9AR	27, 28	VETERANS RD DETOUR →	30 X 12 30 X 24

LEGEND:

- ① SIGN NO.
- APPROX. SIGN LOC.
- VEH. DETOUR
- - - PED. DETOUR
- ②/⑧ SIGN NO. LOCATION

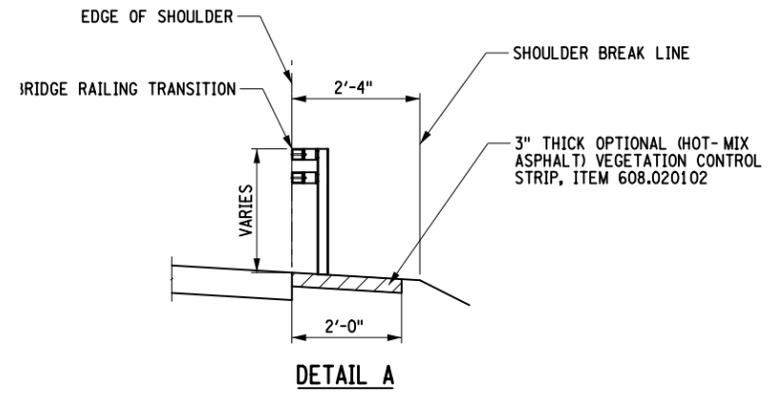
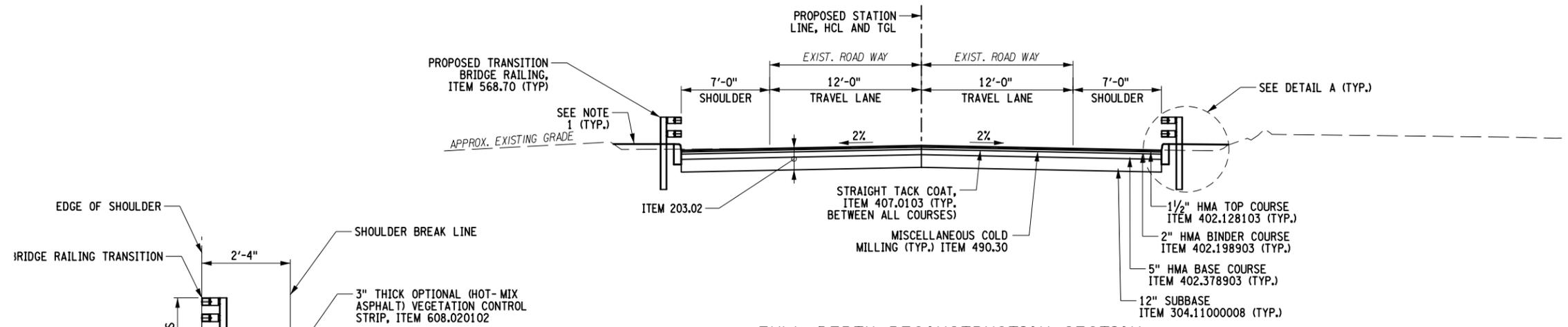
AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020			DETOUR PLAN	DRAWING NO. VR-2
TOWN OF YORKTOWN				VETERANS ROAD	SHEET NO. 30
COUNTY: WESTCHESTER	REGION: 8				

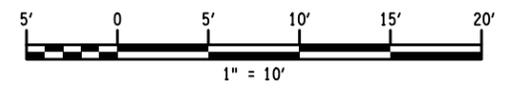
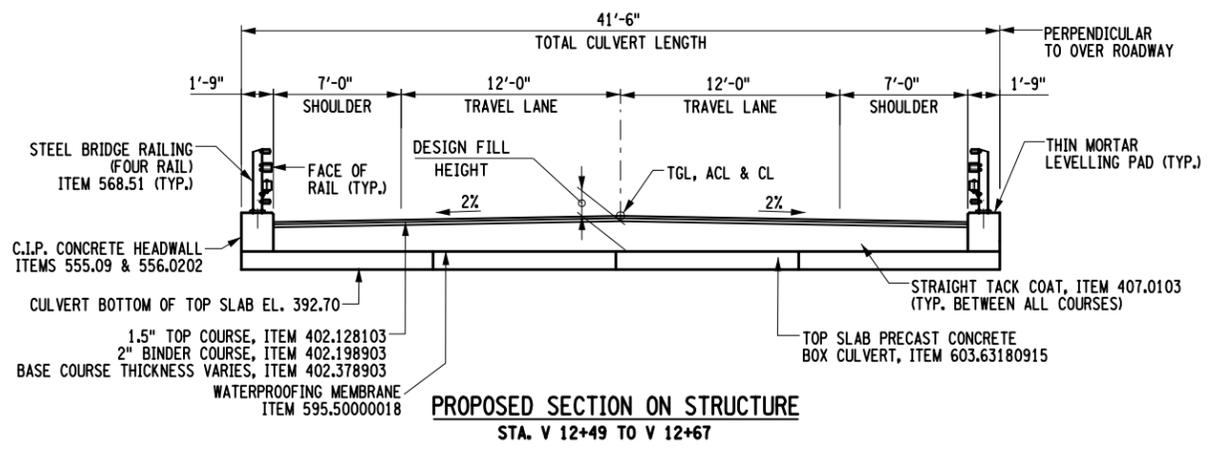
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 USER = DGN#USERNAME

PROJECT MANAGER DW
 CHECK NS
 DRAFTING JS
 CHECK JS
 DESIGN NS
 JOB MANAGER DW
 DESIGN SUPERVISOR MM



- NOTES:**
- DISTURBED AREAS ALONG EDGE OF PAVEMENT SHALL BE RESTORED BY PLACING 4" TOPSOIL (ITEM 610.1402) AND ESTABLISHING TURF (ITEM 610.1601).

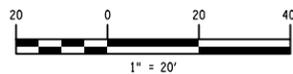
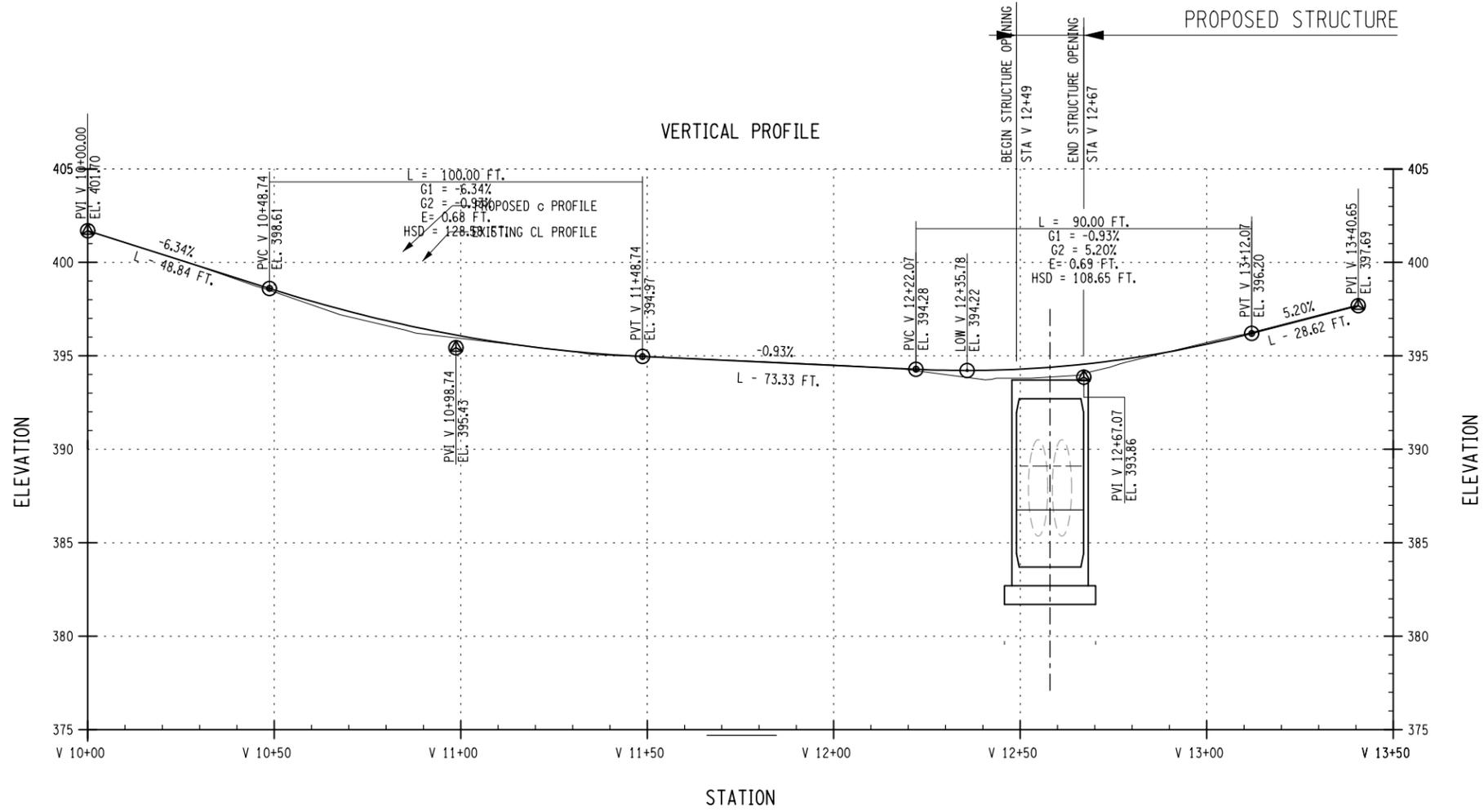


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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					DRAWING NO. VR-3
	TOWN OF YORKTOWN					SHEET NO. 31
	COUNTY: WESTCHESTER	REGION: 8			VETERANS ROAD	

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.

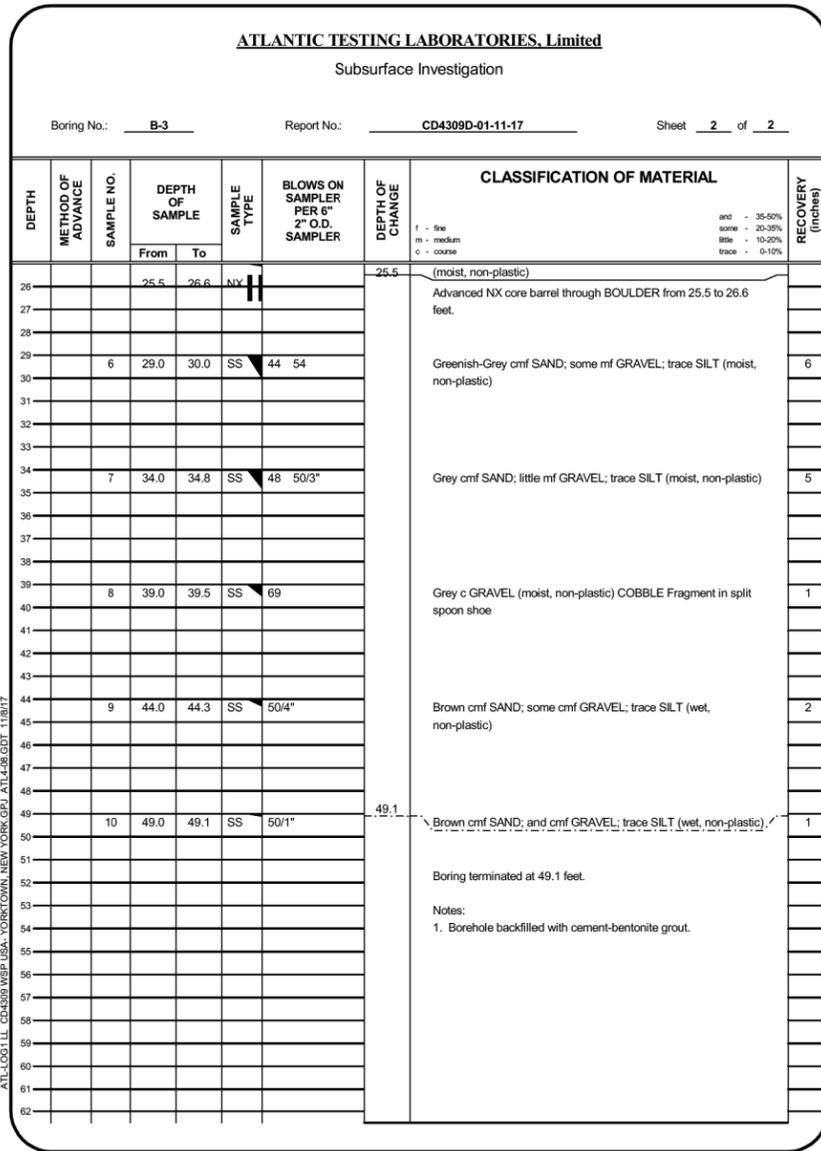




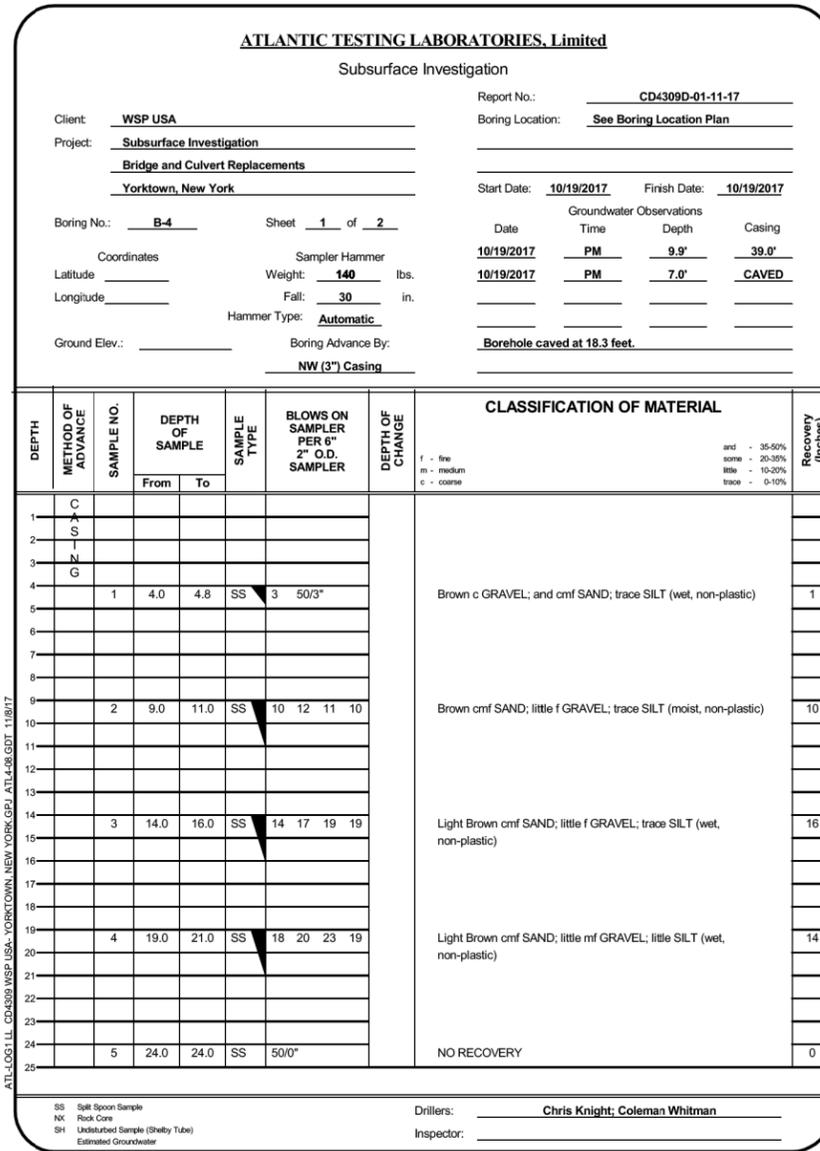
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK				EXISTING AND PROPOSED PROFILES	DRAWING NO. VR-4 SHEET NO. 32
TOWN OF YORKTOWN				VETERANS ROAD		
COUNTY: WESTCHESTER REGION: 8						

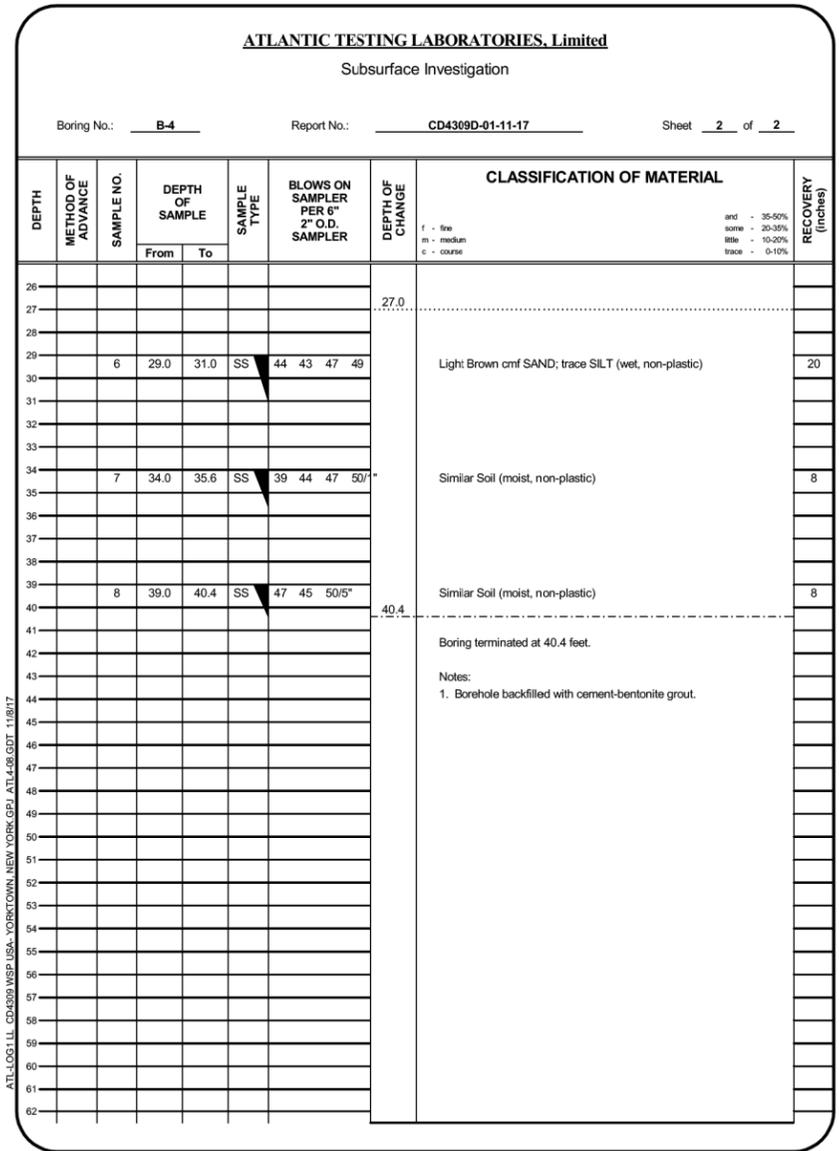
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



BORING B-3 PROFILES (CONT.)



BORING B-4 PROFILES



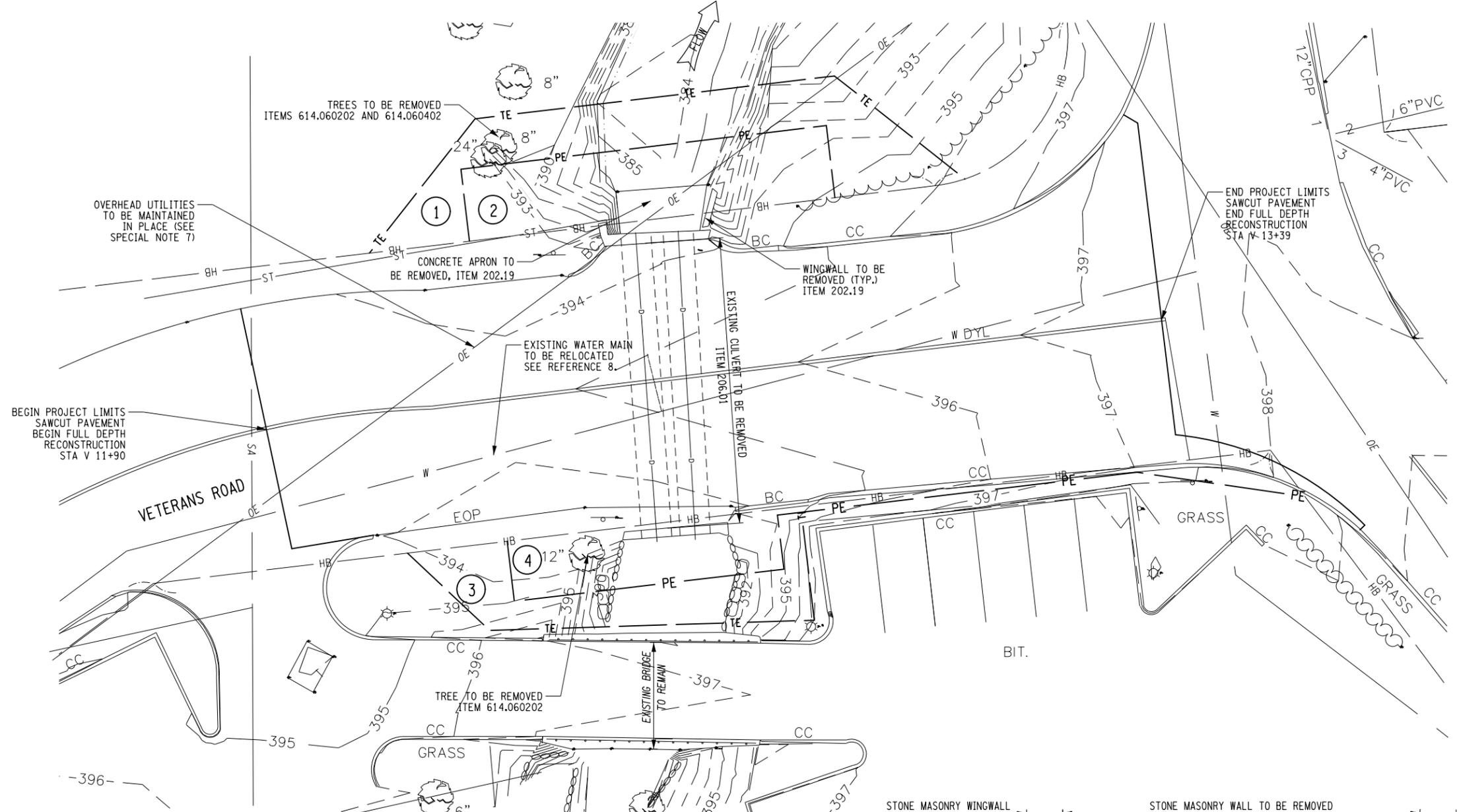
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER	REGION: 8

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.	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BORING SUBSURFACE PROFILE				DRAWING NO. VR-6 SHEET NO. 34
VETERANS ROAD					

REFERENCES:
1. FOR BORING LOCATION PLAN, SEE DWG. NO. VR-6.

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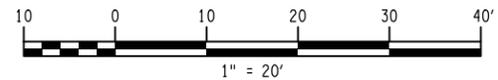
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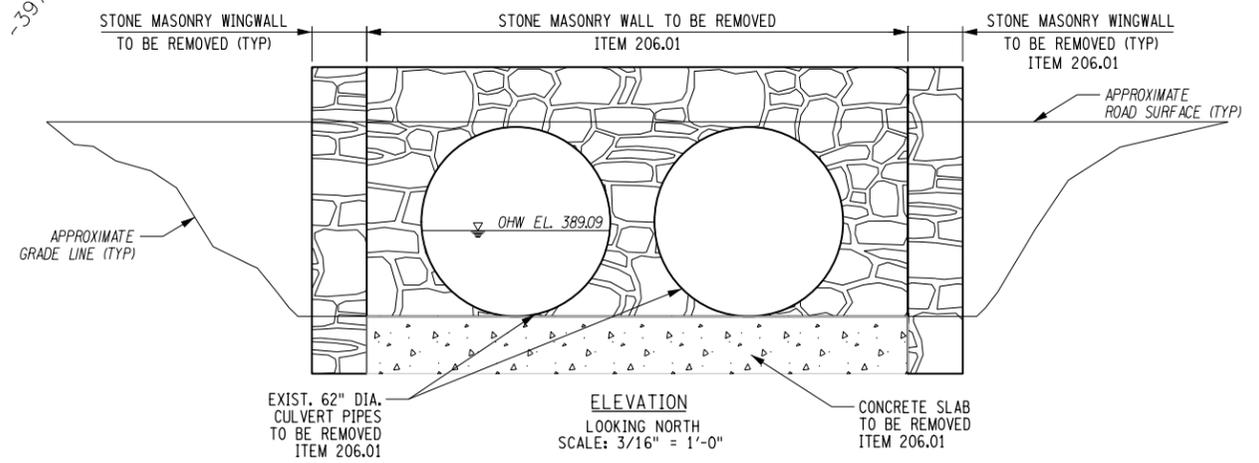
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1. FOR GENERAL NOTES, SEE DWGS GNN-1 AND GNN-2.
2. FOR EXISTING BRIDGE PLAN AND ELEVATION, SEE DWG VR-7.
3. FOR EXCAVATION LIMIT DETAILS, SEE DWG VR-9 TO VR-11.
4. FOR TYPICAL CROSS SECTIONS, SEE DWG VR-3.
5. FOR BRIDGE RAILING DETAILS, SEE DWG RAL-1 AND RAL-2.
6. FOR BOX BEAM GUIDE RAIL TRANSITION, SEE DWG RAL-3.
7. FOR PRECAST UNIT SECTIONS, SEE DWG VR-13.
8. FOR UTILITY PLAN AND PROFILES, SEE DWGS. VR-18 AND VR-19.

RIGHT-OF-WAY ACQUISITIONS					
MAP NO.	PARCEL NO.	TAX MAP ID NO.	REPUTED OWNER	TYPE OF ACQUISITION	ESTIMATED ACQUISITION AREA
1	1	37-15-1-35	YORKTOWN HEIGHTS, LLC	TE	866 SF (0.02 AC)
1	2	37-15-1-35	YORKTOWN HEIGHTS, LLC	PE	732 SF (0.02 AC)
2	3	37-15-1-70	YORKTOWN INDOOR TENNIS CLUB, INC	TE	524 SF (0.01 AC)
2	4	37-15-1-70	YORKTOWN INDOOR TENNIS CLUB, INC	PE	616 SF (0.01 AC)



PLAN



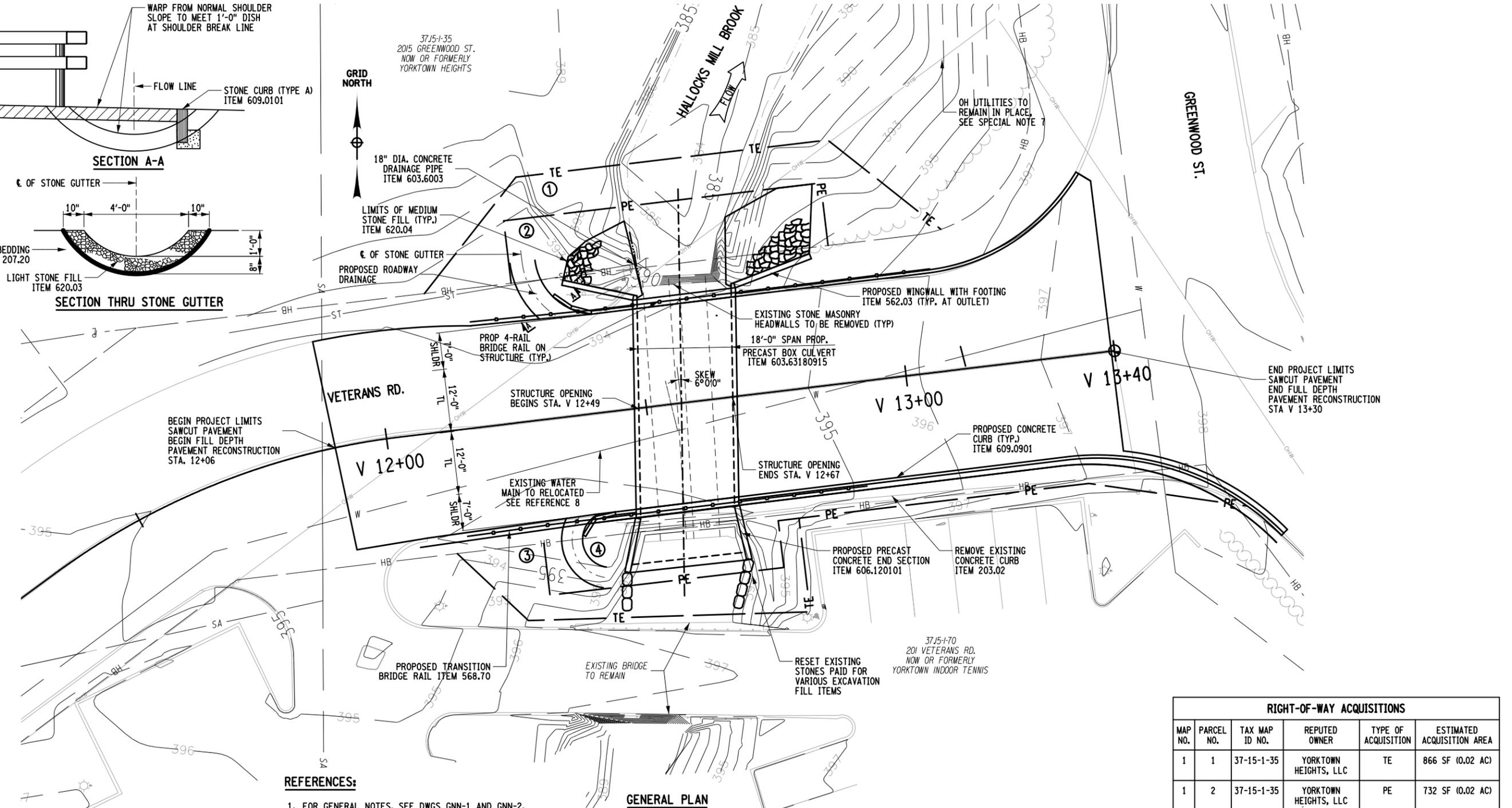
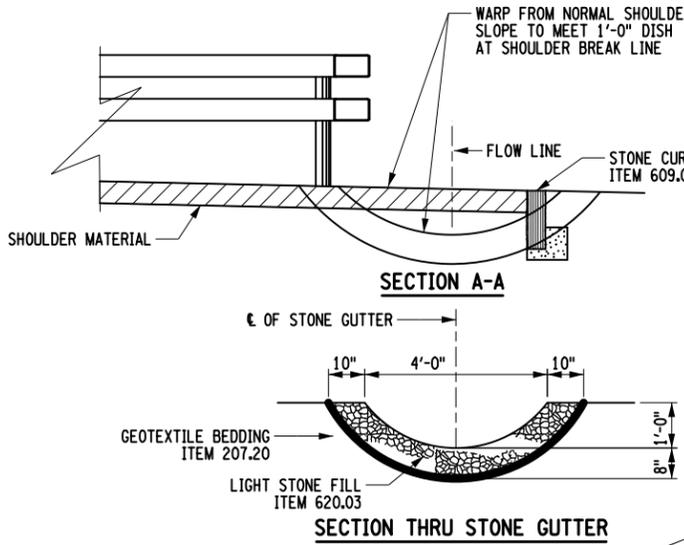
ELEVATION
 LOOKING NORTH
 SCALE: 3/16" = 1'-0"

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK				EXISTING PLAN AND ELEVATION	DRAWING NO. VR-7
	TOWN OF YORKTOWN				VETERANS ROAD	SHEET NO. 35
COUNTY: WESTCHESTER	REGION: 8					
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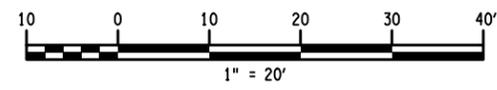
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 DRAFTING JS
 CHECK JS
 DESIGN NS
 JOB MANAGER DW
 DESIGN SUPERVISOR MM



- REFERENCES:**
- FOR GENERAL NOTES, SEE DWGS GNN-1 AND GNN-2.
 - FOR EXISTING BRIDGE PLAN AND ELEVATION, SEE DWG VR-7.
 - FOR EXCAVATION LIMIT DETAILS, SEE DWGS VR-9 TO VR-11.
 - FOR TYPICAL CROSS SECTIONS, SEE DWG VR-3.
 - FOR BRIDGE RAILING DETAILS, SEE DWGS RAL-1 AND RAL-2.
 - FOR BOX BEAM GUIDE RAIL TRANSITION, SEE DWG RAL-3.
 - FOR PROPOSED PRECAST UNIT SECTIONS, SEE DWG VR-13.
 - FOR UTILITY PLAN AND PROFILE, SEE DWGS. VR-18 AND VR-19.

- RIGHT-OF-WAY LEGEND:**
- P - - EXISTING LOT LINE
 - HB - - EXISTING HIGHWAY BOUNDARY
 - TE - - PROPOSED TEMPORARY EASEMENT
 - PE - - PROPOSED PERMANENT EASEMENT

RIGHT-OF-WAY ACQUISITIONS					
MAP NO.	PARCEL NO.	TAX MAP ID NO.	REPUTED OWNER	TYPE OF ACQUISITION	ESTIMATED ACQUISITION AREA
1	1	37-15-1-35	YORKTOWN HEIGHTS, LLC	TE	866 SF (0.02 AC)
1	2	37-15-1-35	YORKTOWN HEIGHTS, LLC	PE	732 SF (0.02 AC)
2	3	37-15-1-70	YORKTOWN INDOOR TENNIS CLUB, INC	TE	524 SF (0.01 AC)
2	4	37-15-1-70	YORKTOWN INDOOR TENNIS CLUB, INC	FEE	616 SF (0.01 AC)



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER	REGION: 8

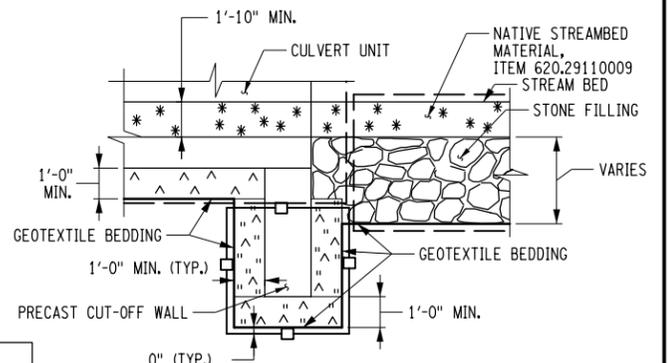
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PROPOSED PLAN	DRAWING NO. VR-8
VETERANS ROAD	SHEET NO. 36

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.

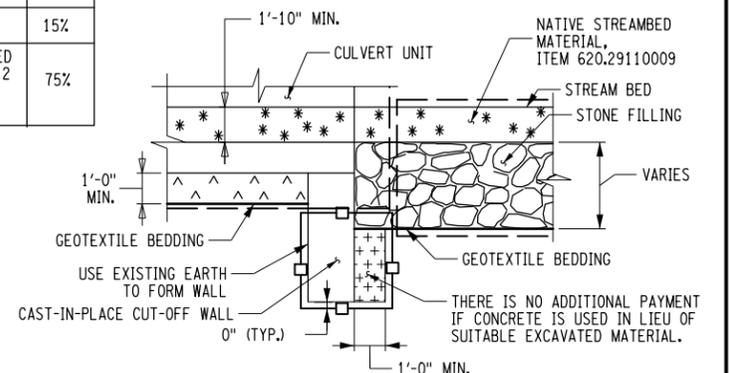
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 USER = PLOTTED BY: USJ04206

PROJECT MANAGER DW
 CHECK NS
 DRAFTING JS
 CHECK JS
 DESIGN NS
 JOB MANAGER DW
 DESIGN SUPERVISOR MM

NOTE:
 THE ELEVATION OF THE BOTTOM OF FOOTING OF THE EXISTING BRIDGE TO REMAIN IS APPROXIMATELY 387±. THIS VALUE WAS DETERMINED BASED ON RECORD PLANS AVAILABLE FROM THE TOWN AND NOT THROUGH VISUAL OBSERVATIONS OR TEST PIT INFORMATION. THE CONTRACTOR SHALL PERFORM EXCAVATION OPERATIONS IN THIS AREA WITH CARE TO ENSURE THAT THE SUBSTRUCTURE IS NOT DAMAGED AND EXCAVATION LIMITS DO NOT EXTEND BELOW THE BOTTOM OF FOOTING WITHOUT PROPER EXCAVATION PROTECTION. SHOULD THE CONTRACTOR ELECT TO DIG TEST PITS OR UTILIZE OTHER EXPLORATORY METHODS TO LOCATE THE EXISTING STRUCTURE, THIS WORK SHALL BE PAID FOR UNDER THE VARIOUS EXCAVATION ITEMS.



(PRECAST CUT-OFF WALL)



(CAST-IN-PLACE CUT-OFF WALL)

SECTION H-H

TABLE OF MATERIAL FOR STREAM BED ESTABLISHMENT	
SIZE DESIGNATION	MIN. %
8" TO 12"	10%
4" TO 8"	15%
LESS THAN 4" AS SPECIFIED IN SOIL MATRIX FOR TYPE 2 GRADATION (SEE TABLE "D" IN ITEM 615.01010108)	75%

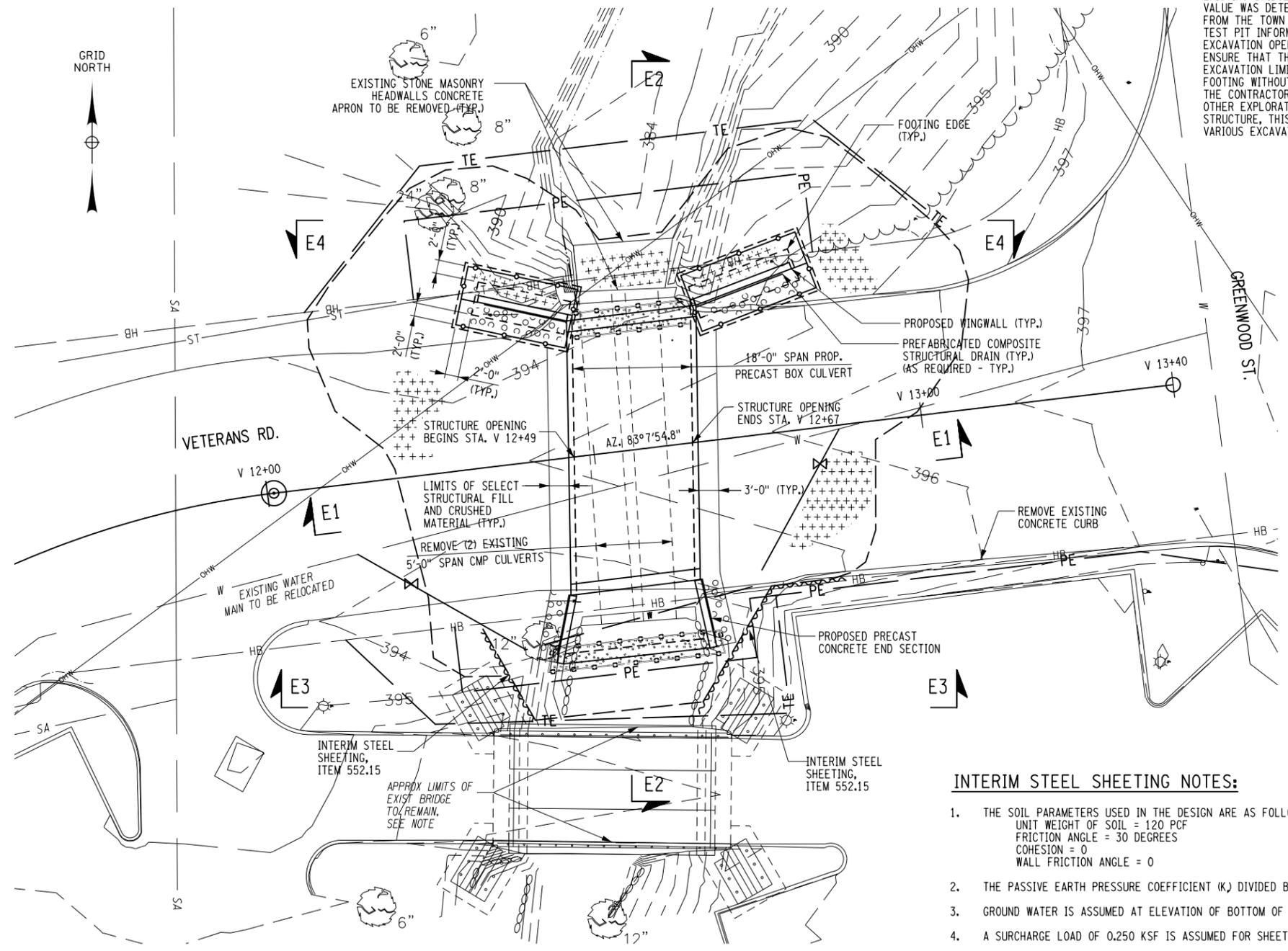
LEGEND:

- EXISTING GROUND SURFACE
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01, STRUCTURE EXCAVATION OR 206.0201 (TRENCH & CULVERT EXCAVATION)
- MATERIAL FOR STREAM BED ESTABLISHMENT, TYPE 1 SOIL MATRIX, ITEM 615.01010108
- CRUSHED STONE (ITEM 623.12).
- CONTROLLED LOW STRENGTH MATERIAL (CLSM) MEETING THE REQUIREMENTS OF SECTION 204. CLSM SHALL BE DESIGNED SO THAT IT FLOWS INTO THE VOIDS OF THE CRUSHED MATERIAL AND SETS UP SUFFICIENTLY WITHIN 24 HOURS TO ALLOW PLACEMENT OF ADDITIONAL MATERIAL. COST TO BE INCLUDED IN PRECAST ITEMS.
- STONE FILLING (MEDIUM) (ITEM 620.04).
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01).
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH & CULVERT EXCAVATION - (ITEM 206.0201)
- WITHIN THESE LINES, EXCAVATE IN ACCORDANCE WITH ITEM 206.01. STRUCTURE EXCAVATION AND BACKFILL IN ACCORDANCE WITH ITEM 203.21 SELECT STRUCTURE FILL, ITEM 206.01 SUITABLE EXCAVATED MATERIAL, AND CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION OF 2. FOR PRECAST WINGWALLS ALL THESE ITEMS ARE INCLUDED IN THE PRICE BID FOR THE WINGWALL ITEM.

INTERIM STEEL SHEETING NOTES:

- THE SOIL PARAMETERS USED IN THE DESIGN ARE AS FOLLOWS:
 UNIT WEIGHT OF SOIL = 120 PCF
 FRICTION ANGLE = 30 DEGREES
 COHESION = 0
 WALL FRICTION ANGLE = 0
- THE PASSIVE EARTH PRESSURE COEFFICIENT (K) DIVIDED BY 1.25
- GROUND WATER IS ASSUMED AT ELEVATION OF BOTTOM OF EXCAVATION.
- A SURCHARGE LOAD OF 0.250 KSF IS ASSUMED FOR SHEETING
- SEE TABLE BELOW FOR MINIMUM SECTION MODULUS PER FOOT OF WALL FOR FY = 50 KSI STEEL.
- SEE TABLE BELOW FOR MINIMUM EMBEDMENT LENGTHS BELOW THE BOTTOM OF EXCAVATION.

INTERIM STEEL SHEETING (ITEM 552.15)		
LOCATION	MIN. ELASTIC SECTION MODULUS (PER FT. OF WALL)	MIN. EMBEDMENT
AS SHOWN IN PLAN	27 IN3	33 FT



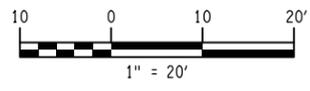
EXCAVATION PLAN

RIGHT-OF-WAY LEGEND:

- EXISTING LOT LINE
- EXISTING HIGHWAY BOUNDARY
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED FEE TAKING

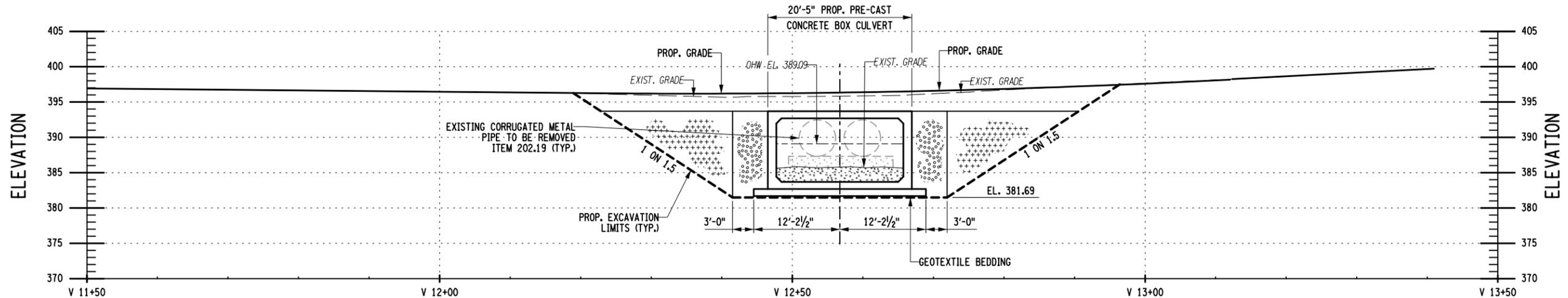
REFERENCES:

- FOR SECTIONS E1-E1 & E2-E2, SEE DWG. NO. VR-10.
- FOR SECTIONS E3-E3 & E4-E4, SEE DWG. NO. VR-11.

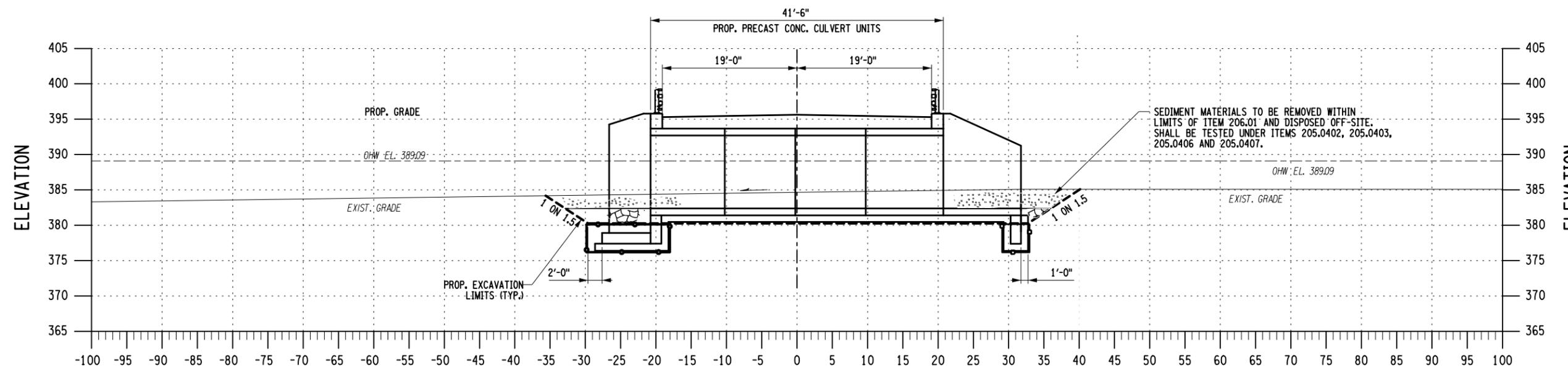


AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER REGION: 8	

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.	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	PS&E DATE: MARCH 2020			EXCAVATION PLAN	DRAWING NO. VR-9 SHEET NO. 37
				VETERANS ROAD	

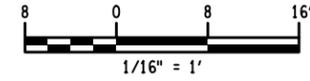


SECTION E1-E1
SCALE: 1/16" = 1'-0"



SECTION E2-E2
SCALE: 1/16" = 1'-0"

(FOR LOCATION OF SECTIONS E1-E1 & E2-E2, SEE DWG. NO. VR-9)



- LEGEND:**
- — — — — EXISTING GROUND SURFACE
 - - - - - AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
 - ▬▬▬▬▬▬▬ PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)

- LEGEND:**
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
 - BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
 - STONE FILLING (MEDIUM) (ITEM 620.04)
 - MATERIAL FOR STREAM BED ESTABLISHMENT, SOIL MATRIX TYPE 1, ITEM 615.01010108

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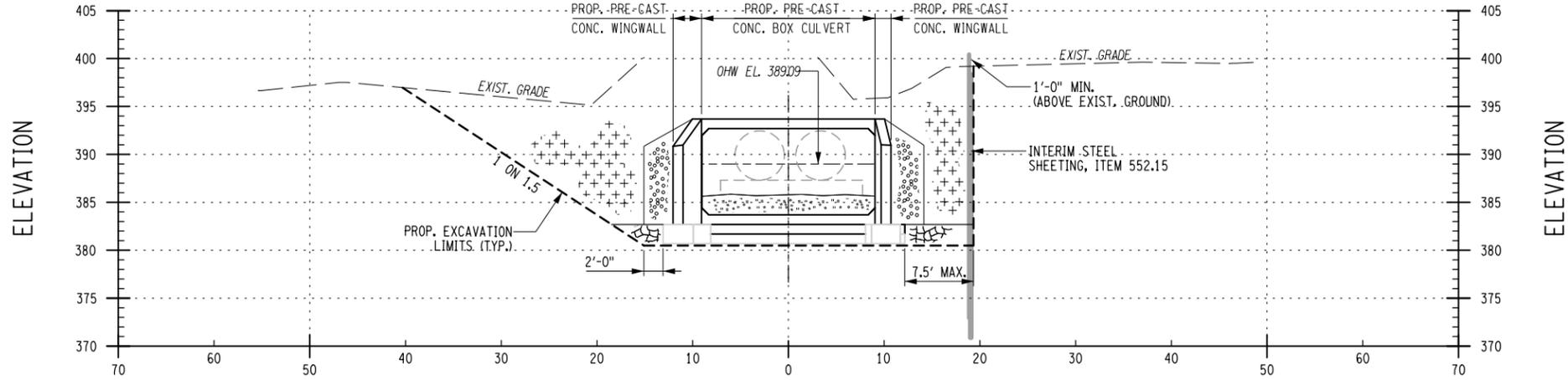
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					PS&E DATE: MARCH 2020
	TOWN OF YORKTOWN				EXCAVATION SECTIONS (1 OF 2)	SHEET NO. 38
	COUNTY: WESTCHESTER	REGION: 8			VETERANS ROAD	
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.						

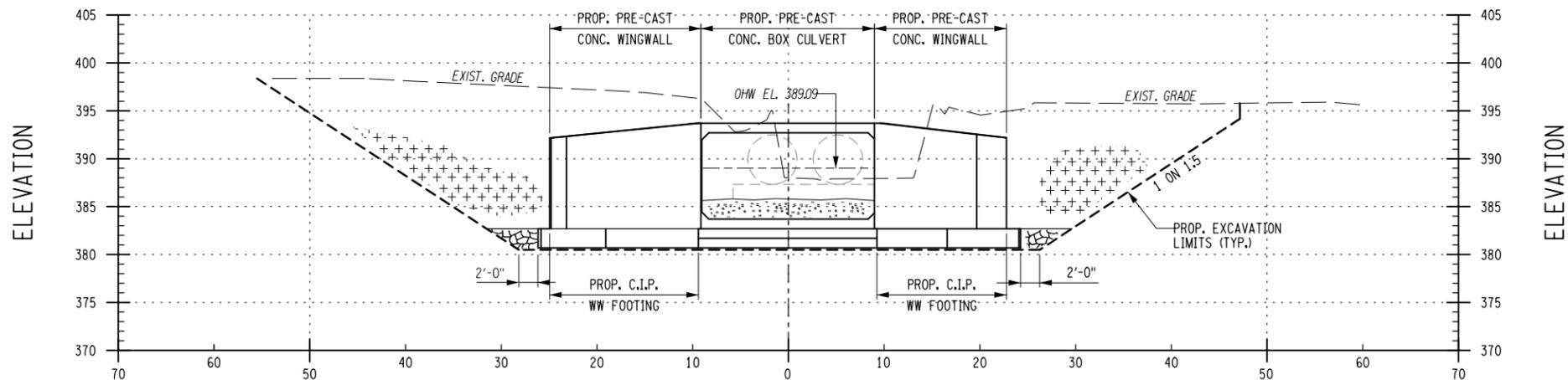


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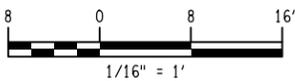


SECTION E3-E3
 SOUTH ELEVATION
 SCALE: 1/16" = 1'-0"



SECTION E4-E4
 AT NORTH WINGWALL
 SCALE: 1/16" = 1'-0"

(FOR LOCATION OF SECTIONS E3-E3 & E4-E4, SEE DWG. NO. VR-9)



- LEGEND:**
- EXISTING GROUND SURFACE
 - AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
 - PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)

- LEGEND (CONT.):**
- SELECT STRUCTURE FILL (ITEM 203.21), COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
 - HIGHWAY EMBANKMENT MATERIAL (ITEM 203.03)
 - BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
 - STONE FILLING (MEDIUM) (ITEM 620.04) OR
 - MATERIAL FOR STREAM BED ESTABLISHMENT, SOIL MATRIX TYPE 1, ITEM 615.01010108

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020				DRAWING NO. VR-11
	TOWN OF YORKTOWN				EXCAVATION SECTIONS (2 OF 2)	SHEET NO. 39
	COUNTY: WESTCHESTER	REGION: 8			VETERANS ROAD	
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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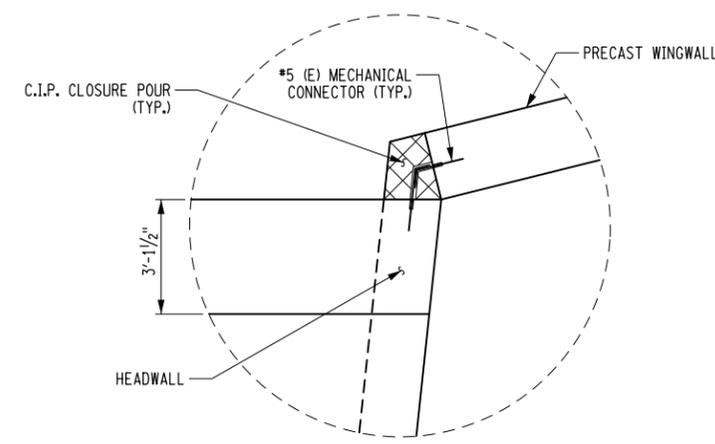
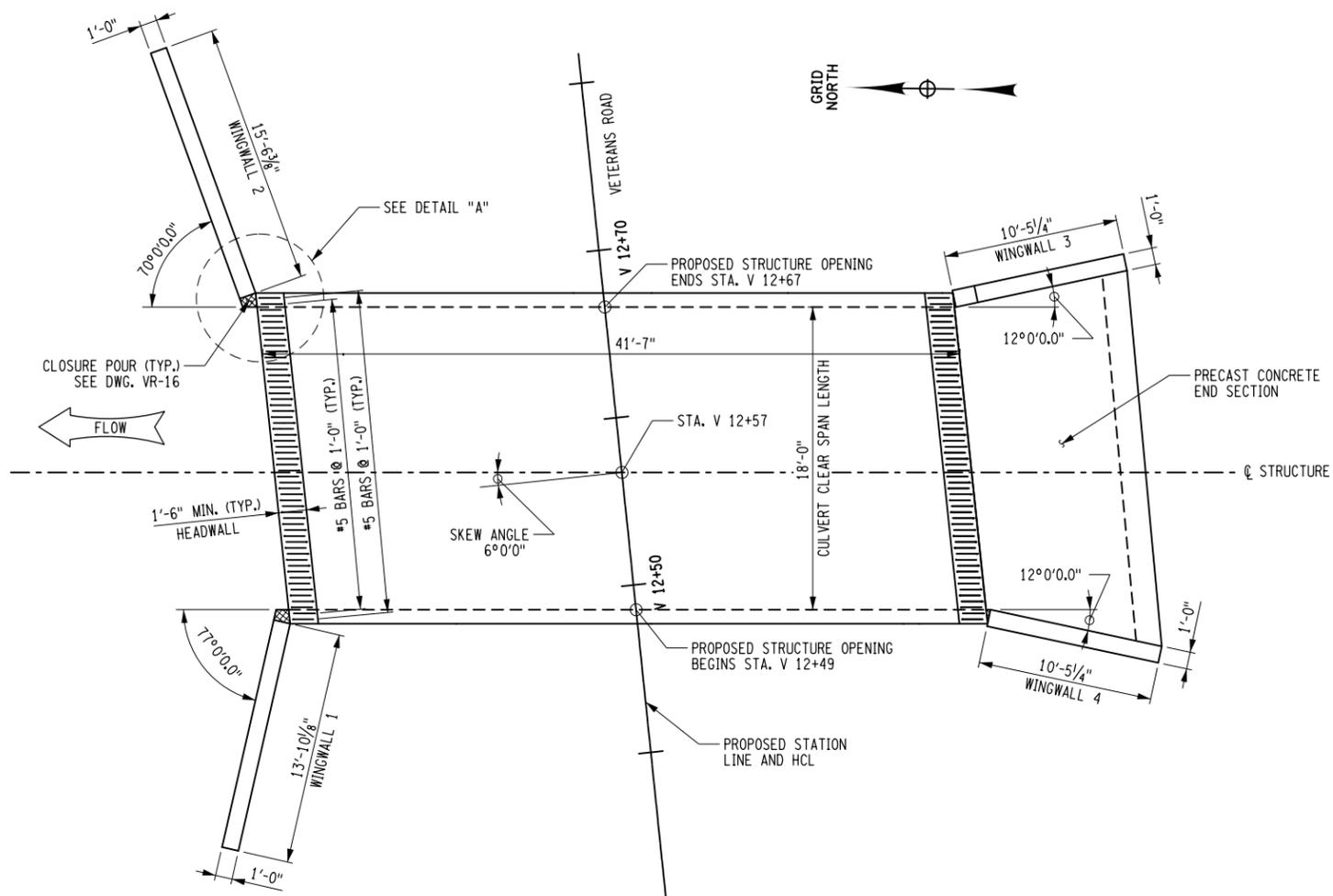
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DESIGN NS

JOB MANAGER DW

DESIGN SUPERVISOR MM



DETAIL "A"

NOTES:

- LONGITUDINAL BARS IN HEADWALLS ARE NOT SHOWN FOR CLARITY. SEE DWG. RAL-1 FOR DETAILS.
- WHERE EPOXY COATED THREADED INSERTS ARE SHOWN, ANY NON-CORROSIVE MECHANICAL CONNECTOR MEETING 709-10 MAY BE USED AS AN ALTERNATIVE.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
- ALL COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
- THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR. IF STAGED CONSTRUCTION IS EMPLOYED, THE PRECAST BOX CULVERT SEGMENT LENGTH MUST BE COMPATIBLE WITH STAGING REQUIREMENTS.
- PRECAST CUT-OFF WALLS AND WINGWALLS SHALL BE PLACED ON A LEVELING BED OF CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION OF 2. AFTER PLACING AND LEVELING THE PRECAST UNITS, THE AREAS BENEATH, IN FRONT AND BEHIND THE UNITS SHALL BE GROUTED WITH CONTROLLED LOW STRENGTH MATERIAL MEETING THE REQUIREMENTS OF SECTION 204.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".

WINGWALL DATA				
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "X"
WINGWALL 1	394.4	393.5	379.7	1'-0"
WINGWALL 2	394.7	395.0	379.7	1'-0"
WINGWALL 3	394.7	391.0	382.7	1'-0"
WINGWALL 4	394.4	391.0	382.7	1'-0"

DIMENSION "X" MEASURED ALONG FRONT OF WINGWALL

GEOTECHNICAL WINGWALL DESIGN DATA						
FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (LB / FT ³)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (LB / FT ²)	NOMINAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
30	30	120	5800	0.45	0.8	0.45

- FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF XX FEET.
- FOR THE BEARING ANALYSES, ASSUME A GROUNDWATER ELEVATION OF XX FEET.
- USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATIONS PROVIDED.
- ASSUME A SURCHARGE LOAD OF XX POUNDS PER SQUARE FOOT.

BOX CULVERT DESIGN DATA	
CLEAR SPAN, FT.	18'-0"
FRAME RISE, FT.	9'-0"
• MIN. FILL HEIGHT, FT.	7"
• MAX. FILL HEIGHT, FT.	11"
(CSKEW) SKEW ANGLE PERPENDICULAR TO CENTER LINE OF ROADWAY, DEG.	6
LIVE LOAD	HL93 AND NYS PERMIT VEHICLE
RAILING / BARRIER TEST LOAD	TL-4

• BASED ON ASSUMED TOP SLAB THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. FILL HEIGHTS MEASURED FROM THE TOP OF THE TOP SLAB TO TOP OF PAVEMENT.

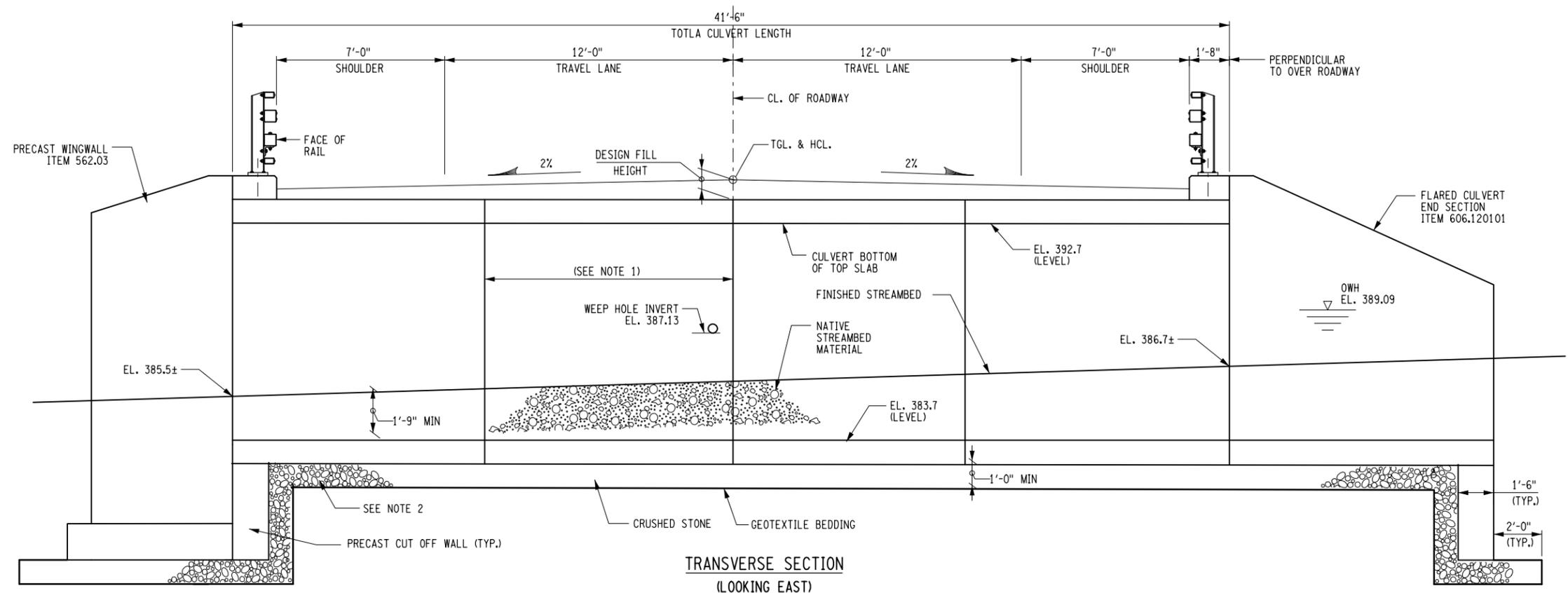


AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK VETERANS ROAD OVER HALLOCKS MILL BROOK TOWN OF YORKTOWN COUNTY: WESTCHESTER REGION: 8	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A 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.	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020			PRECAST UNIT PLAN AND DETAILS	DRAWING NO. VR-12 SHEET NO. 40
			VETERANS ROAD	

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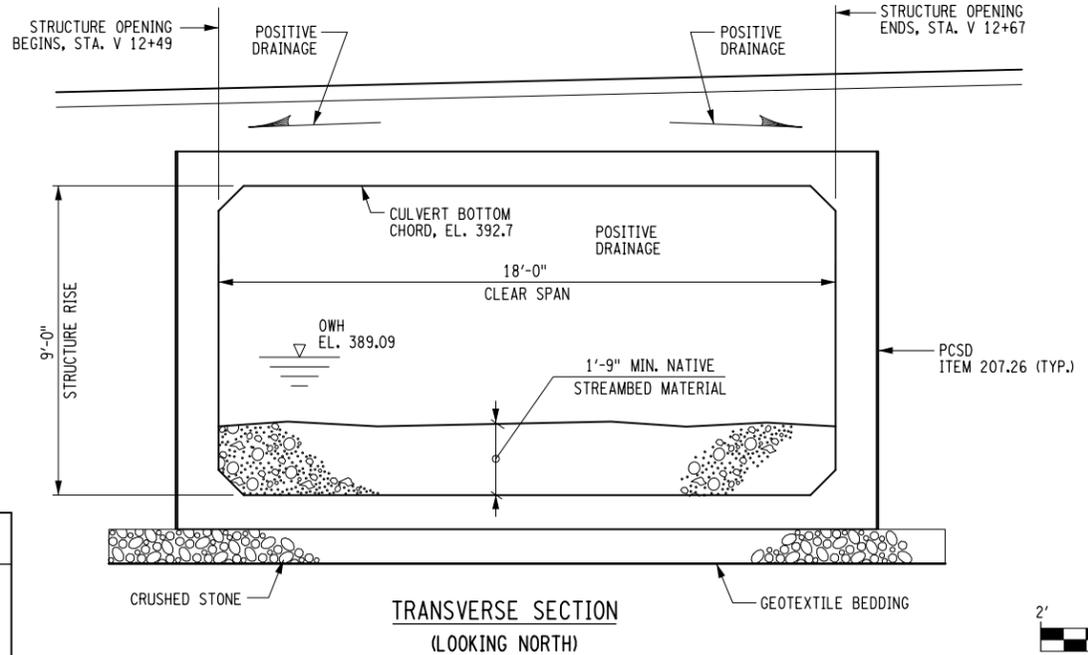
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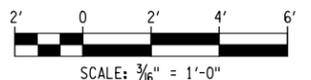
TRANSVERSE SECTION
(LOOKING EAST)

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

THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE LOAD RATINGS IN BOTH THE LOAD FACTOR RATING (LFD) METHOD AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE REGIONAL STRUCTURES ENGINEER.



TRANSVERSE SECTION
(LOOKING NORTH)



REFERENCES:

- FOR PROPOSED GENERAL PLAN, SEE DWG. NO. HB-8.
- FOR PROPOSED BRIDGE RAILING DETAILS, SEE DWG. NOS. RAL-1 AND RAL-2.
- FOR WINGWALL DETAILS, SEE DWG. NO. HB-15.

NOTES:

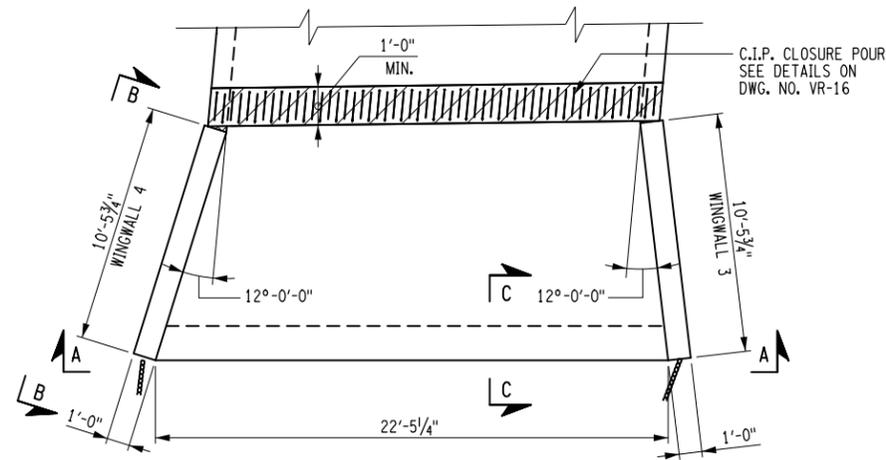
- THE LENGTH OF EACH SEGMENT STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR.
- PRECAST CUTOFF WALLS AND WINGWALLS SHALL BE PLACED ON A LEVELING BED OF CRUSHED MATERIAL MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH THE PRIMARY SIZE DESIGNATION OF 2. AFTER PLACING AND LEVELING THE PRECAST UNITS, THE AREAS BENEATH, IN FRONT AND BEHIND THE UNITS SHALL BE GROUTED WITH CONTROLLED LOW STRENGTH MATERIAL MEETING THE REQUIREMENTS OF SECTION 204. COST SHALL BE INCLUDED UNDER ITEM 603.63180915.
- WEEPHOLES SHALL BE PLACED AT MAXIMUM SPACING OF 25 FEET. COST SHALL BE INCLUDED UNDER ITEM 603.63180915.
- PRECAST UNITS SHALL BE SECURED TO THE INVERT SLAB AS PER THE MANUFACTURE'S RECOMMENDATION.

AFFIX SEAL: ON:	ALTERED BY: ON:

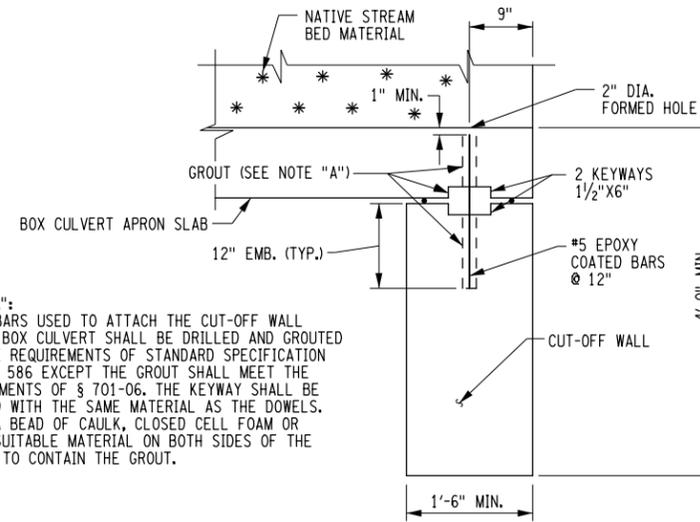
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020				
TOWN OF YORKTOWN	COUNTY: WESTCHESTER	REGION: 8	PRECAST UNIT SECTIONS			DRAWING NO. VR-13 SHEET NO. 41
VETERANS ROAD						
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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 USER = PLOTTED BY: USJ504206

DESIGN SUPERVISOR MM JOB MANAGER DW PROJECT MANAGER DW
 DESIGN NS CHECK JS DRAFTING JS CHECK NS



FLARED APRON/WINGWALL PLAN
 SCALE: 1/8" = 1'-0"

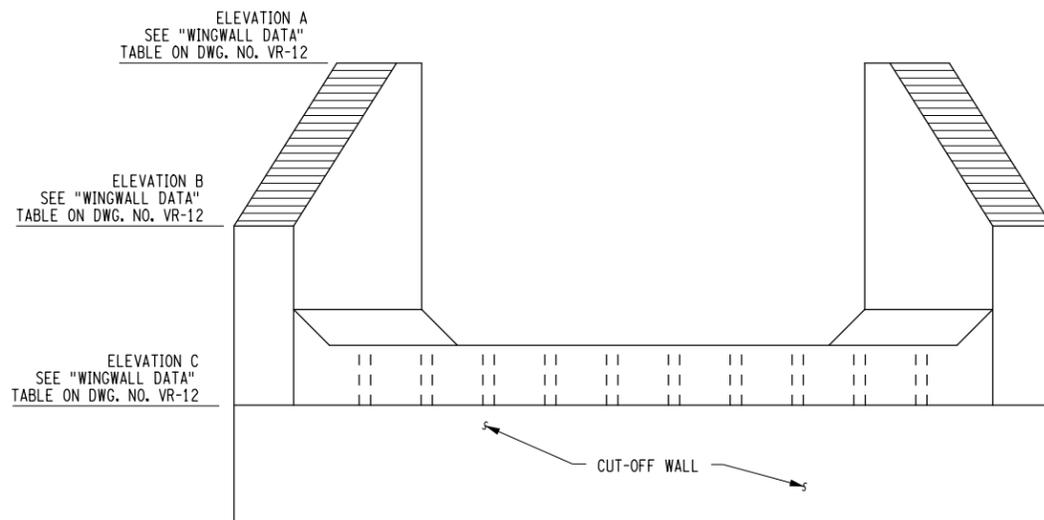


SECTION C-C
 N.T.S.

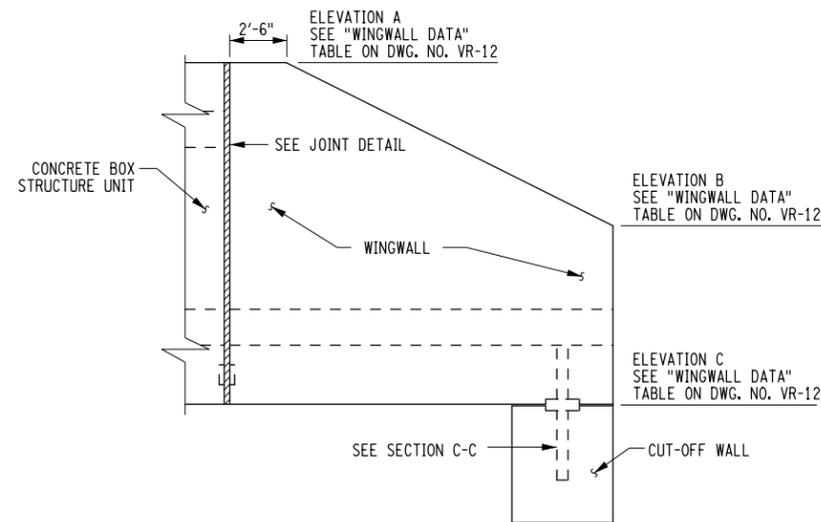
NOTE "A":
 DOWEL BARS USED TO ATTACH THE CUT-OFF WALL TO THE BOX CULVERT SHALL BE DRILLED AND GROUTED PER THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 586 EXCEPT THE GROUT SHALL MEET THE REQUIREMENTS OF § 701-06. THE KEYWAY SHALL BE GROUTED WITH THE SAME MATERIAL AS THE DOWELS. PLACE A BEAD OF CAULK, CLOSED CELL FOAM OR OTHER SUITABLE MATERIAL ON BOTH SIDES OF THE KEYWAY TO CONTAIN THE GROUT.

NOTES:

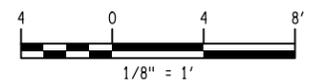
1. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1".
2. IF THE END SECTION IS PROVIDED BY THE CONTRACTOR IN MORE THAN ONE PIECE A CLOSURE POUR DETAIL SIMILAR TO THE CLOSURE POUR DETAIL ON BD-CB4E OR DETAIL "C" ON BD-CB11E SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN.



SECTION A-A
 FLARED CULVERT END SECTION
 N.T.S.



SECTION B-B
 (FLARED SECTION SHOWN)
 N.T.S.

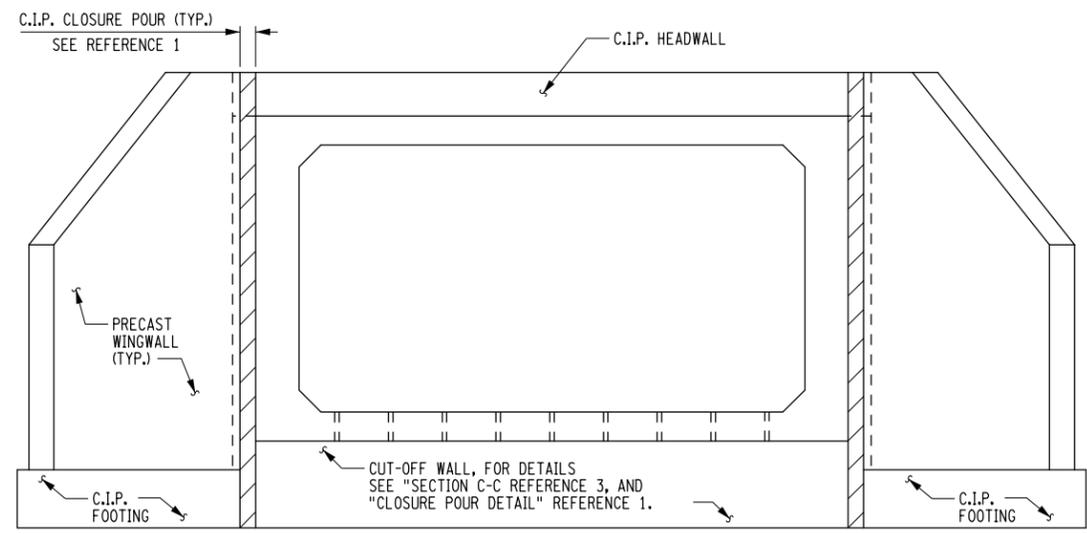


AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					PS&E DATE: MARCH 2020
TOWN OF YORKTOWN	COUNTY: WESTCHESTER	REGION: 8	VETERANS ROAD		SHEET NO. 42	
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.						

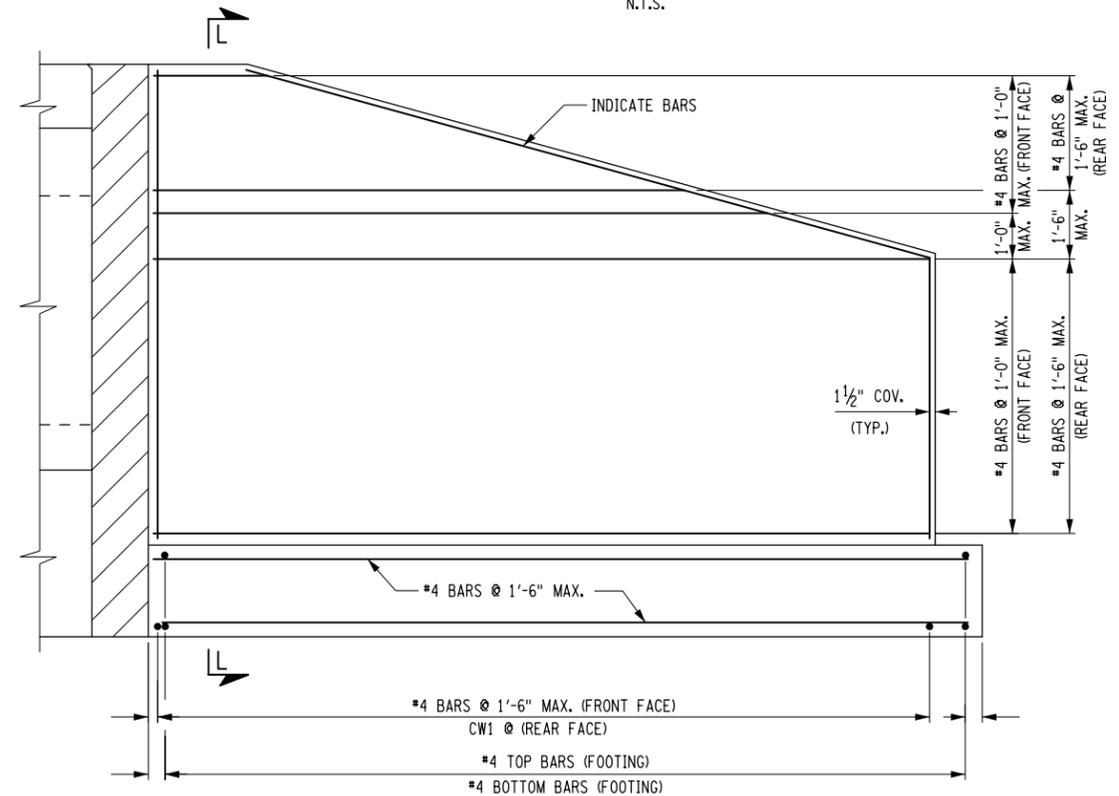
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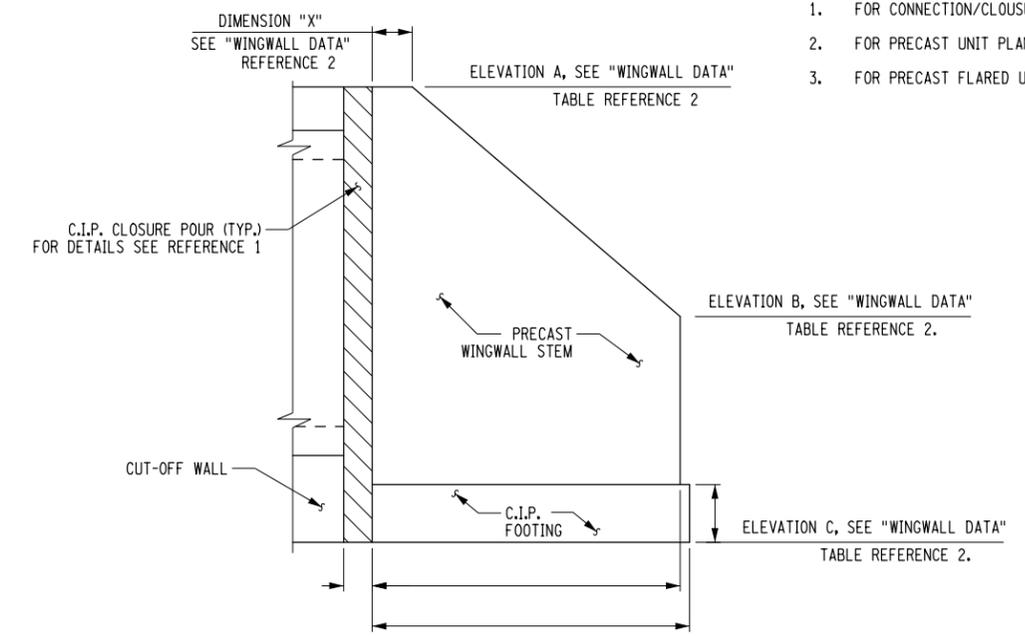


TYPICAL CULVERT ELEVATION
N.T.S.

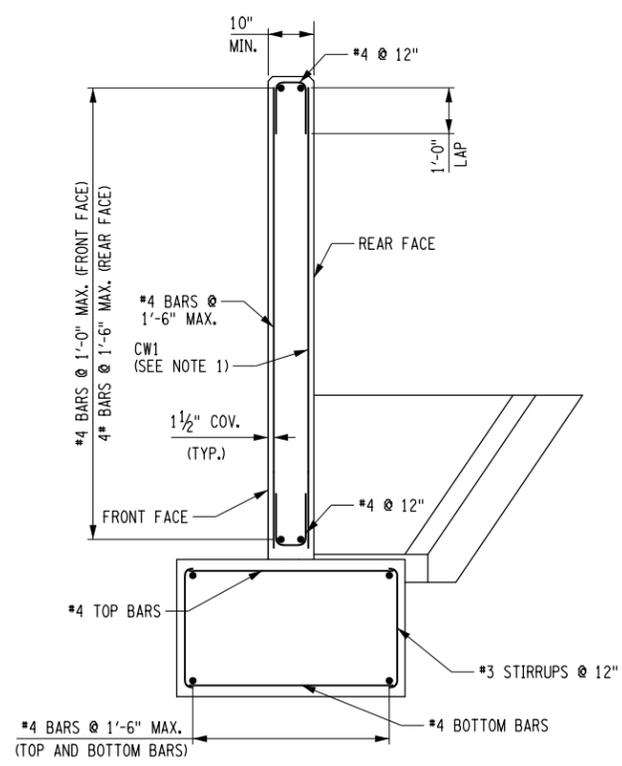
NOTE:
RAILING NOT SHOWN.



WINGWALL UNIT REINFORCEMENT ELEVATION
N.T.S.



TYPICAL WINGWALL UNIT ELEVATION
N.T.S.



SECTION L-L
N.T.S.

REFERENCES:

1. FOR CONNECTION/CLOSURE POUR DETAILS, SEE DWG. VR-16.
2. FOR PRECAST UNIT PLAN AND DETAILS, SEE DWG. VR-12.
3. FOR PRECAST FLARED UNIT END SECTION, SEE VR-14.

NOTES:

1. BAR SIZE AND SPACING TO BE DETERMINED BY CONTRACTOR. BAR SIZE AND SPACING SHOWN ARE EXAMPLES.
2. ACTUAL WALL THICKNESS AND FOOTING DIMENSIONS TO BE DETERMINED BY FABRICATOR.
3. BASED ON HANDLING AND SHIPPING CONSTRAINTS, THE CONTRACTOR MAY ELECT TO USE MULTIPLE WINGWALL UNITS TO SATISFY WALL LENGTH REQUIRED ON THE PLANS. THE JOINT DETAIL BETWEEN WINGWALL UNITS SHALL BE IN ACCORDANCE WITH DETAILS PRESENTED ON VR-16, OR AS DIRECTED BY FABRICATOR.
4. PRECAST WINGWALL IS SHOWN AS AN EXAMPLE. CONTRACTOR MAY ELECT TO USE ANY PRECAST BINWALL WINGWALL SYSTEM, AS APPROVED BY THE ENGINEER.
5. WEEPHOLES NOT SHOWN. DESIGNER SHALL DETERMINE THE NECESSITY FOR WEEPHOLES.

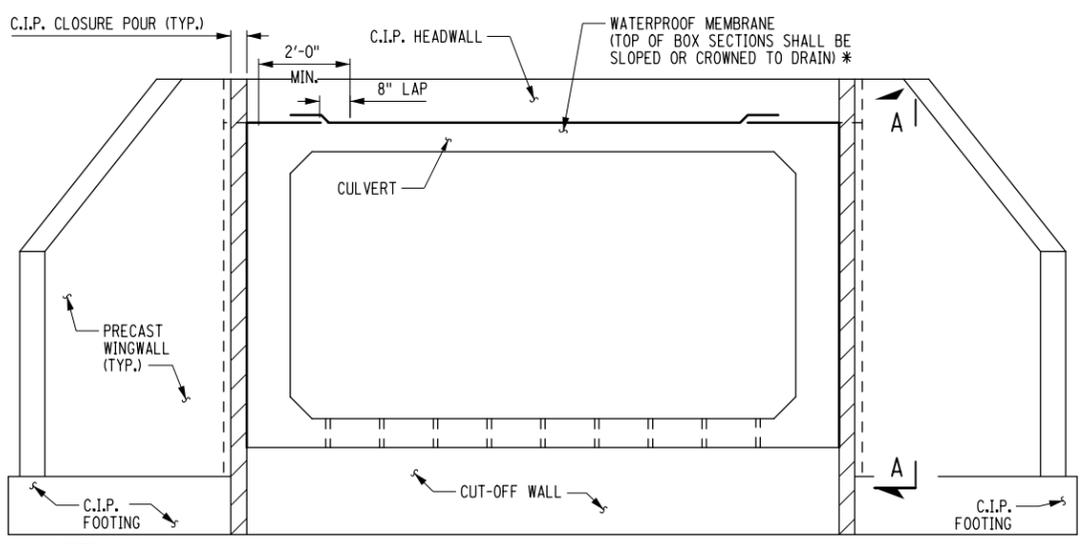
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020			WINGWALL DETAILS	DRAWING NO. VR-15
TOWN OF YORKTOWN				VETERANS ROAD	SHEET NO. 43
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.

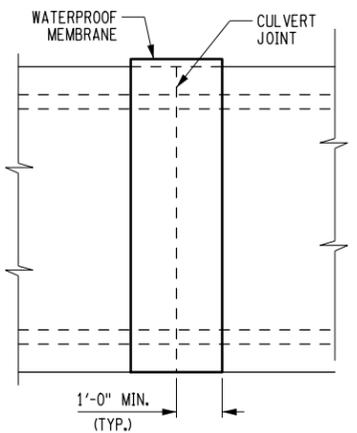
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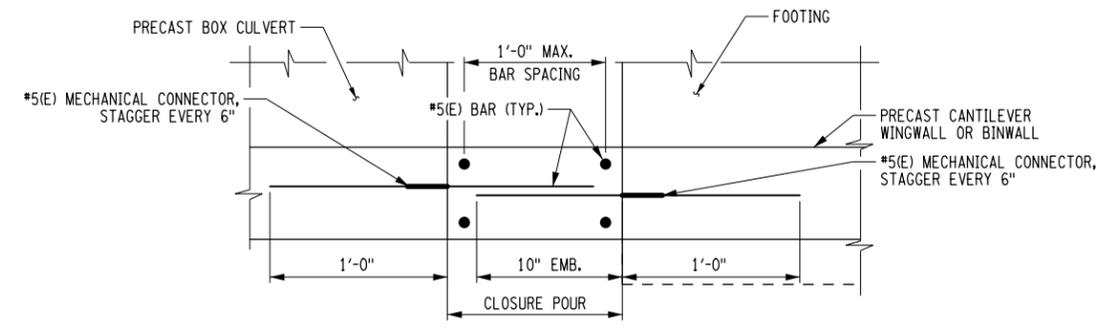


NOTE:
 WHEN SPLICES ARE REQUIRED IN THE
 WATERPROOF MEMBRANE, LOCATE AS SHOWN.

CULVERT SECTION



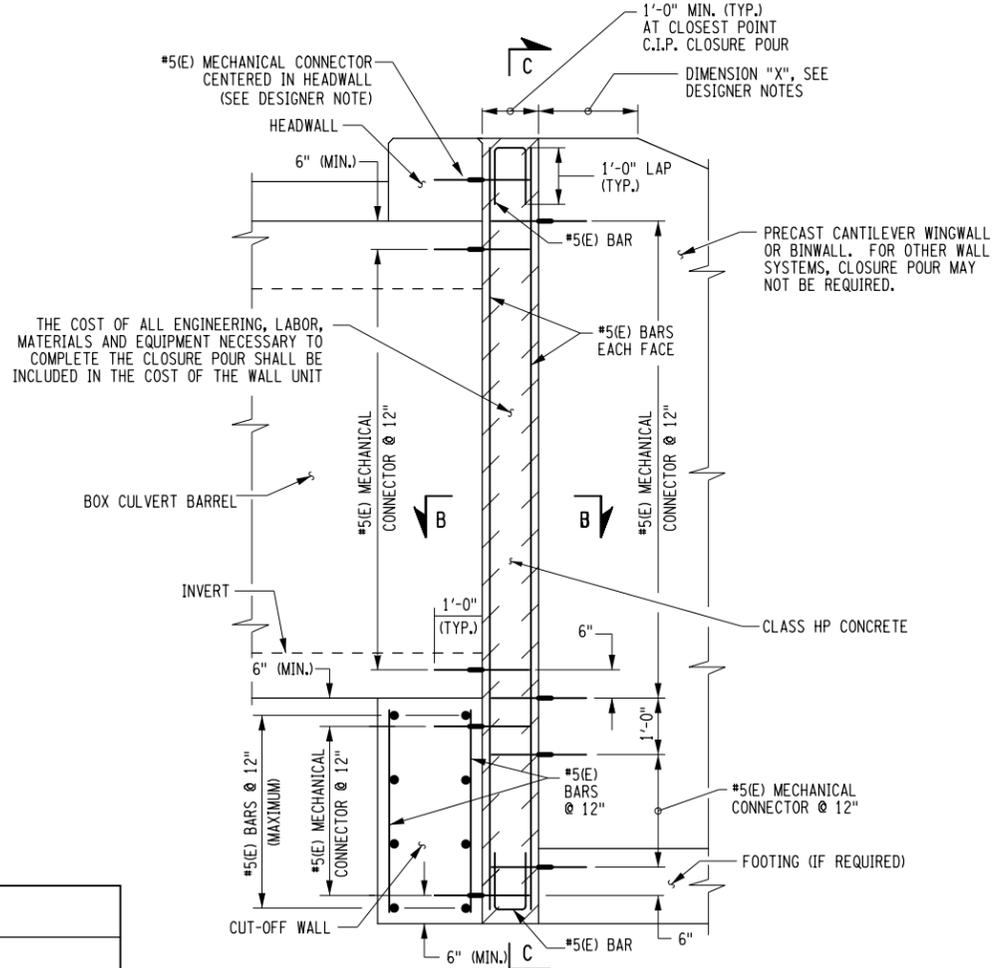
SECTION A-A



NOTE: PLACE C.I.P. CLOSURE POUR AFTER
 BACKFILLING USING S.I.P. FORMS.

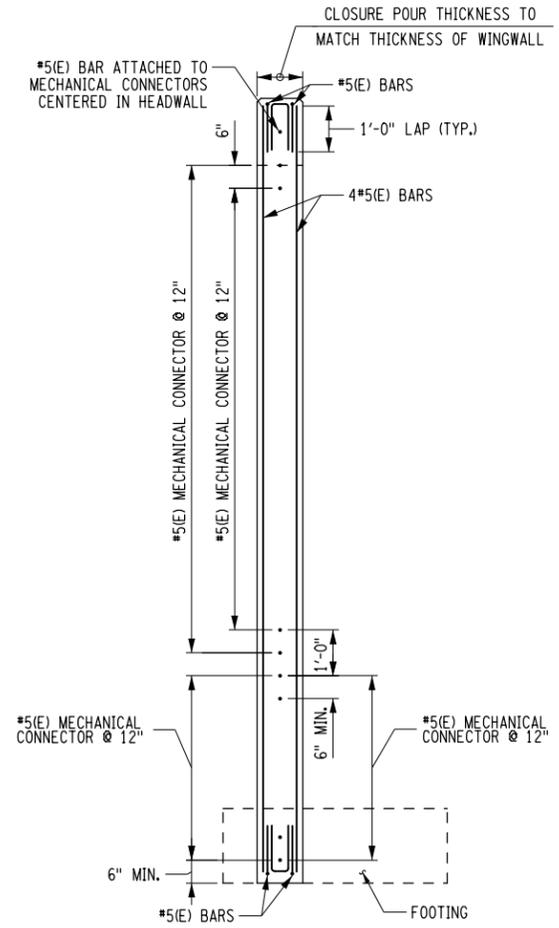
SECTION B-B

WATERPROOF MEMBRANE SPLICE DETAIL

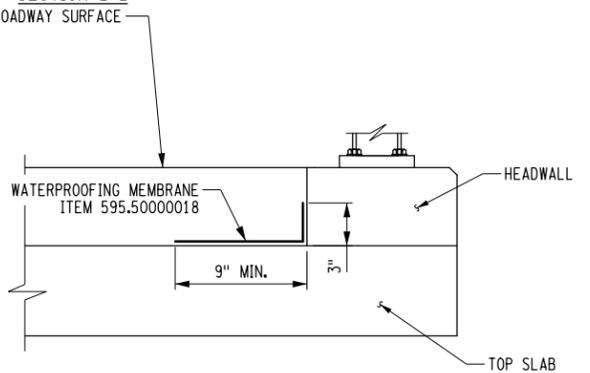


CLOSURE POUR DETAIL

NOT TO SCALE

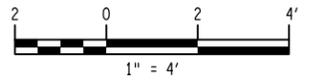


SECTION C-C
 CLOSURE POUR REINFORCEMENT SECTION



SECTION D-D
 WATERPROOFING MEMBRANE AT HEADWALL

- NOTES:
1. ACTUAL CULVERT WALL AND TOP SLAB THICKNESSES, REINFORCEMENT SIZE AND SPACINGS TO BE DETERMINED BY CONTRACTOR.
 2. WHERE EPOXY COATED THREADED INSERTS ARE SHOWN, ANY NON-CORROSIVE MECHANICAL CONNECTOR MEETING §709-10 MAY BE USED AS AN ALTERNATIVE.
 3. ALL REINFORCEMENT COVER ON CAST IN PLACE CONCRETE SHALL BE 2" UNLESS OTHERWISE NOTED.
 4. ALL REINFORCEMENT COVER ON PRECAST UNITS SHALL BE 1" UNLESS OTHERWISE NOTED.



AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	8761.71				
	TOWN OF YORKTOWN	PS&E DATE: MARCH 2020			CONNECTION/CLOSURE POUR DETAILS	DRAWING NO. VR-16
	COUNTY: WESTCHESTER	REGION: 8		VETERANS ROAD		SHEET NO. 44

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 MM

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. SOIL EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED AS PER NYSOT SPECIFICATIONS. OTHER EROSION CONTROL MEASURES MAY BE REQUIRED, AS ORDERED BY THE ENGINEER, IN ADDITION TO THE SCHEMES SHOWN ON THIS SHEET.
2. EXISTING TREES AND SHRUBS WITHIN THE PROJECT LIMITS ARE TO REMAIN WHENEVER POSSIBLE, DISTURBANCE TO EXISTING VEGETATION SHALL BE MINIMIZED WHERE TREES ARE TO BE PROTECTED, MEASURES SHALL BE INSTALLED AS PER NYSOT 611 SERIES OF STANDARD SHEETS.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AS REQUIRED.
4. THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE TEMPORARY WATERWAY DIVERSION SYSTEM. THIS DOES NOT REPRESENT THE DESIGN LIMITS OF THE ACTUAL SYSTEM USED BY THE CONTRACTOR.

RESTORATION NOTES:

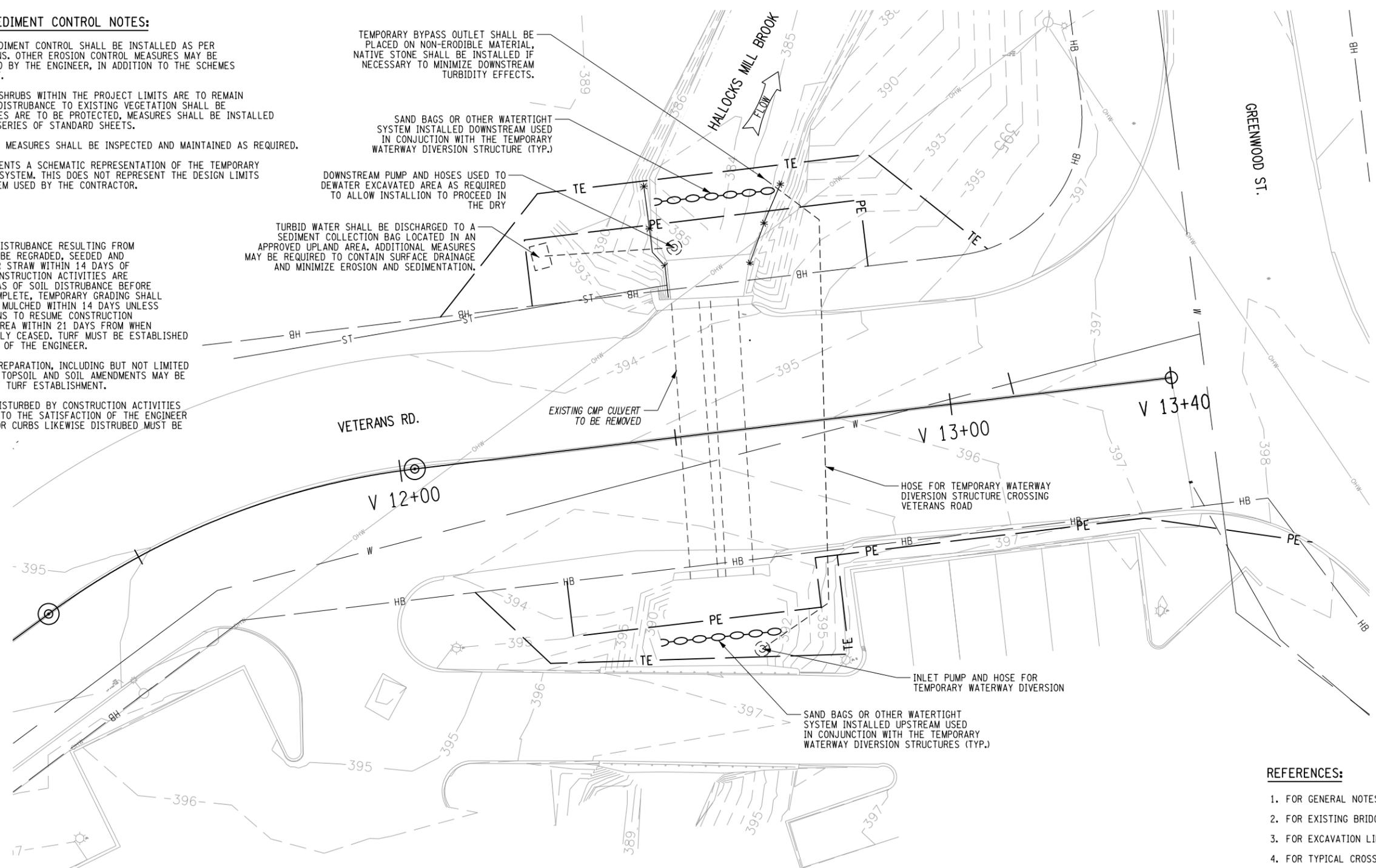
1. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE REGRADED, SEEDED AND MULCHED WITH HAY OR STRAW WITHIN 14 DAYS OF FINAL GRADING. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, TEMPORARY GRADING SHALL ALSO BE SEEDED AND MULCHED WITHIN 14 DAYS UNLESS THE CONTRACTOR PLANS TO RESUME CONSTRUCTION ACTIVITIES IN THAT AREA WITHIN 21 DAYS FROM WHEN ACTIVITIES TEMPORARILY CEASED. TURF MUST BE ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.
2. ADDITIONAL GROUND PREPARATION, INCLUDING BUT NOT LIMITED TO, THE ADDITION OF TOPSOIL AND SOIL AMENDMENTS MAY BE REQUIRED TO PROMOTE TURF ESTABLISHMENT.
3. EXISTING PAVEMENT DISTURBED BY CONSTRUCTION ACTIVITIES MILLED AND REPAVED TO THE SATISFACTION OF THE ENGINEER. PAVEMENT MARKINGS OR CURBS LIKEWISE DISTURBED MUST BE REPLACED IN KIND.

TEMPORARY BYPASS OUTLET SHALL BE PLACED ON NON-ERODIBLE MATERIAL, NATIVE STONE SHALL BE INSTALLED IF NECESSARY TO MINIMIZE DOWNSTREAM TURBIDITY EFFECTS.

SAND BAGS OR OTHER WATERTIGHT SYSTEM INSTALLED DOWNSTREAM USED IN CONJUNCTION WITH THE TEMPORARY WATERWAY DIVERSION STRUCTURE (TYP.)

DOWNSTREAM PUMP AND HOSES USED TO DEWATER EXCAVATED AREA AS REQUIRED TO ALLOW INSTALLION TO PROCEED IN THE DRY

TURBID WATER SHALL BE DISCHARGED TO A SEDIMENT COLLECTION BAG LOCATED IN AN APPROVED UPLAND AREA. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTAIN SURFACE DRAINAGE AND MINIMIZE EROSION AND SEDIMENTATION.



RIGHT-OF-WAY LEGEND:

- * — * SILT FENCE, ITEM 209.13
- — ○ SAND BAGS OR OTHER WATER TIGHT SYSTEM, ITEM 553.010002

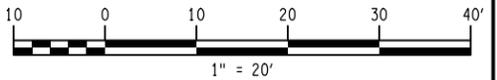
GENERAL PLAN

RIGHT-OF-WAY LEGEND:

- P - - EXISTING LOT LINE
- HB - EXISTING HIGHWAY BOUNDARY
- ATE - PROPOSED APPROXIMATE TEMPORARY EASEMENT
- AFEE - PROPOSED APPROXIMATE PERMANENT EASEMENT
- APE - PROPOSED APPROXIMATE FEE TAKING

REFERENCES:

1. FOR GENERAL NOTES, SEE DWGS. GNN-1 AND GNN-2.
2. FOR EXISTING BRIDGE PLAN AND ELEVATION, SEE DWG. VR-7.
3. FOR EXCAVATION LIMIT DETAILS, SEE DWGS. VR-9 TO VR-11.
4. FOR TYPICAL CROSS SECTIONS, SEE DWG. VR-3.
5. FOR BRIDGE RAILING DETAILS, SEE DWGS. RAL-1 AND RAL-2.
6. FOR BOX BEAM GUIDE RAIL TRANSITION, SEE DWG. RAL-3.
7. FOR PRECAST UNIT SECTIONS, SEE DWG. VR-13.



AFFIX SEAL: ON:	ALTERED BY: 97 ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
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.	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020			SOIL EROSION AND SEDIMENT	DRAWING NO. VR-17 SHEET NO. 45
			VETERANS ROAD	

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 USER = PLOTTED BY: USJS04206

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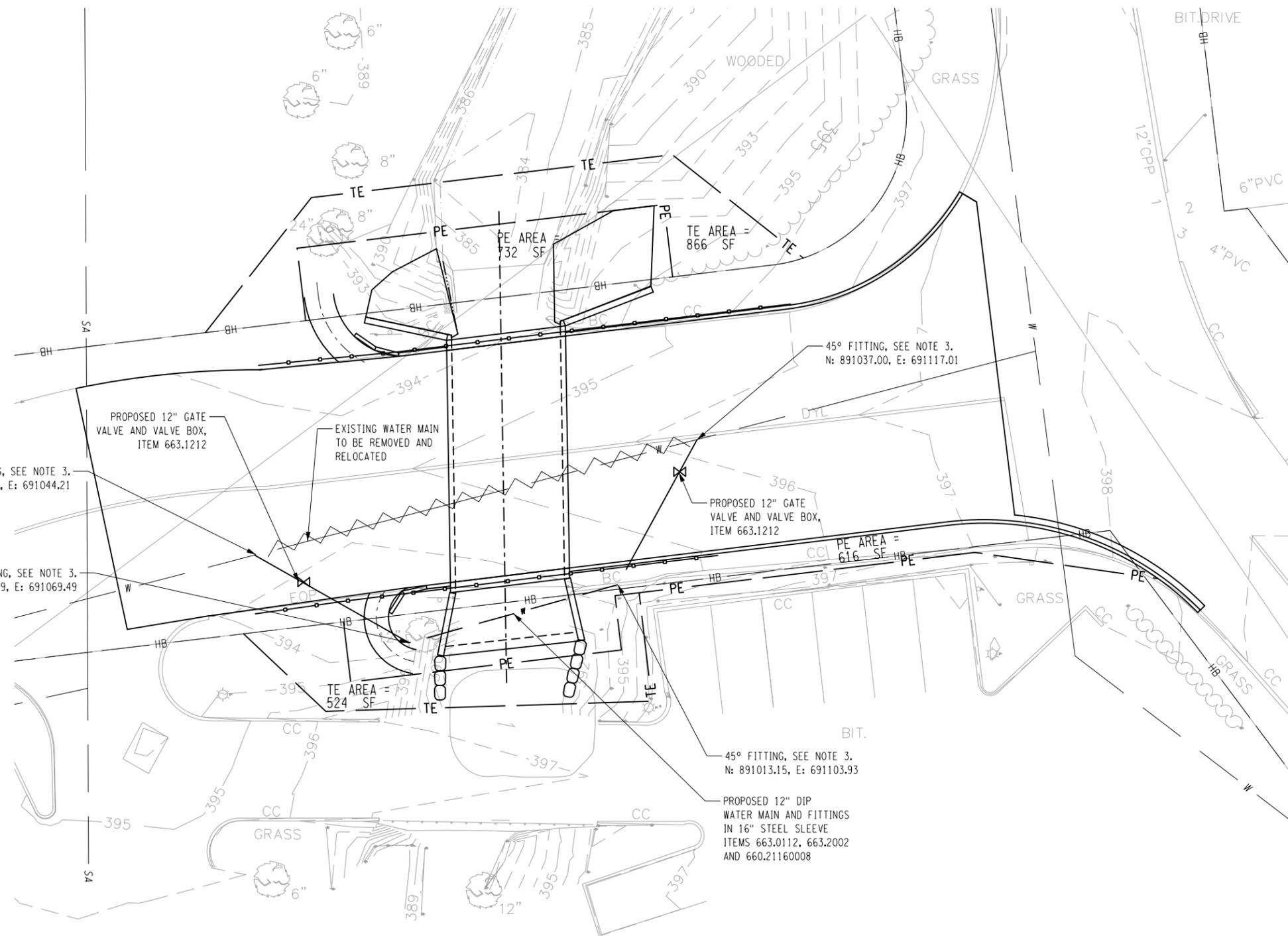
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JOB MANAGER DW

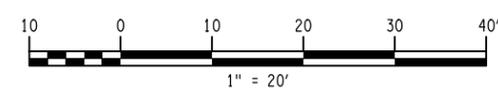
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- REFERENCES:**
- FOR GENERAL NOTES, SEE DWG. NOS. GNN-1 AND GNN-2.
 - FOR PROPOSED BRIDGE PLAN, SEE DWG. NO. VR-8
 - FOR EXCAVATION LIMITS DETAILS, SEE DWG. NO. VR-9 THRU VR-11
 - FOR TYPICAL CROSS SECTIONS, SEE DWG. NO. VR-3.
 - FOR UTILITY PROFILES, SEE DWG. NO. VR-19
 - FOR UTILITY DETAILS, SEE DWG. NO. WMD-1 THRU WMD-3.

- NOTES:**
- CONTRACTOR TO VERIFY TYPE OF EXISTING WATER MAIN PIPE. IF TYPE IS DISSIMILAR VS. THE PROPOSED PIPE, CONNECT TO EXISTING WATER MAIN WITH MEGALUG 3800 FITTING OR APPROVED EQUAL.
 - SEE WATER MAIN PROFILE FOR APPROXIMATE LOCATION OF VERTICAL BENDS.
 - 3"-8" IRON WATER MAIN FITTING SHALL BE PAID FOR UNDER ITEM 663.2001. 10"-16" IRON WATER MAIN FITTINGS SHALL BE PAID FOR UNDER ITEM 663.2002.
 - TRENCH AND CULVERT EXCAVATION SHALL BE PAID FOR UNDER ITEM 206.0201.

AFFIX SEAL: ON:	ALTERED BY: ON:

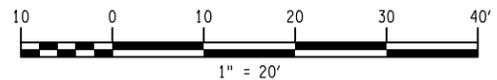
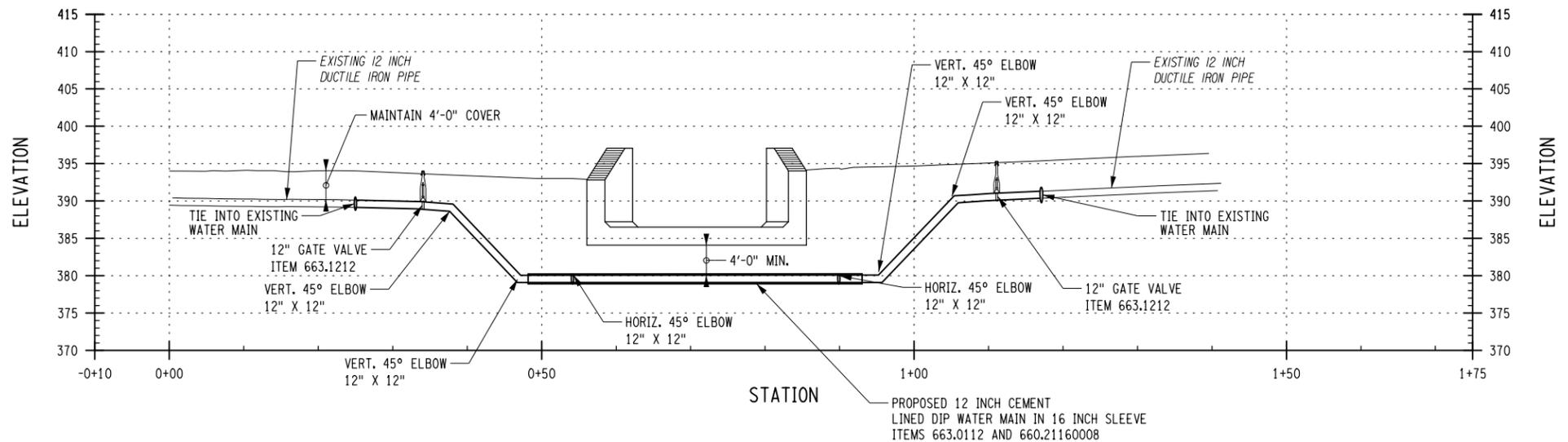


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					
	TOWN OF YORKTOWN	PS&E DATE: MARCH 2020			UTILITY PLAN	DRAWING NO. VR-18
	COUNTY: WESTCHESTER REGION: 8					VETERANS ROAD
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 MM JOB MANAGER DW PROJECT MANAGER DW
 DESIGN NS CHECK JS DRAFTING JS CHECK NS

WATER MAIN PROFILE
 FACING NORTH



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					DRAWING NO. VR-19
	TOWN OF YORKTOWN	PS&E DATE: MARCH 2020			UTILITY PROFILE	SHEET NO. 47
	COUNTY: WESTCHESTER	REGION: 8			VETERANS ROAD	
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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JOB MANAGER DW

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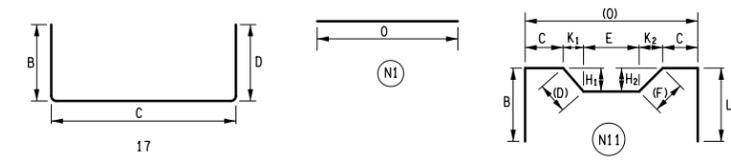
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PROJECT MANAGER DW

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
VETERANS ROAD CLOSURE POUR WINGWALL 1																			
5CE1	8	2-8	17	22		1-0	0-8	1-0											
5CE2	4	14-8	N1	61														14-8	
5CE3	34	0-11	N1	32														0-11	
SUBTOTAL	EPOXY BARS			116 LB	THIS POUR														
VETERANS ROAD CLOSURE POUR WINGWALL 2																			
5CE1	8	2-8	17	22		1-0	0-8	1-0											
5CE2	4	14-8	N1	61														14-8	
5CE3	34	0-11	N1	32														0-11	
SUBTOTAL	EPOXY BARS			116 LB	THIS POUR														
VETERANS ROAD HEADWALL 1																			
5CE1	38	2-2	17	86		0-10	1-4	0-0											
5CE2	6	19-5	N1	121														19-5	
SUBTOTAL	EPOXY BARS			207 LB	THIS POUR														
VETERANS ROAD HEADWALL 2																			
5CE1	38	2-2	17	86		0-10	1-4	0-0											
5CE2	6	19-5	N1	121														19-5	
SUBTOTAL	EPOXY BARS			207 LB	THIS POUR														
VETERANS ROAD WINGWALL 1 FOOTING																			
4CE1	10	13-4	N1	89													13-4		
4CE2	8	6-10	17	36		2-2	2-6	2-2											
4CE3	15	14-9	T1	148	0-4 1/2	4-6	2-6	4-6	2-6		0-4 1/2	0-3 1/4							
4CE4	2	8-10	17	12		2-2	4-6	2-2											
SUBTOTAL	EPOXY BARS			285 LB	THIS POUR														
VETERANS ROAD WINGWALL 2 FOOTING																			
4CE1	10	15-1	N1	100													15-0 1/2		
4CE2	8	6-10	17	36		2-2	2-6	2-2											
4CE3	2	8-10	17	12		2-2	4-6	2-2											
4CE4	17	14-9	T1	168	0-4 1/2	4-6	2-6	4-6	2-6		0-4 1/2	0-3 1/4							
SUBTOTAL	EPOXY BARS			316 LB	THIS POUR														

MARK	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R
VETERANS ROAD CUT-OFF WALL NORTH																			
4C1	4	20-0	N1	53															20-0
4C2	4	5-4	17	14		2-2	1-0	2-2											
4C3	21	5-9	T1	81	0-4 1/2	1-0	1-6	1-0	1-6		0-4 1/2	0-3 1/4							
5C4	18	2-0	N1	38															2-0
SUBTOTAL	PLAIN BARS			186 LB	THIS POUR														



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71 PS&E DATE: MARCH 2020	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK					
	TOWN OF YORKTOWN					
	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.					BARLIST VETERANS ROAD	DRAWING NO. VR-20 SHEET NO. 48



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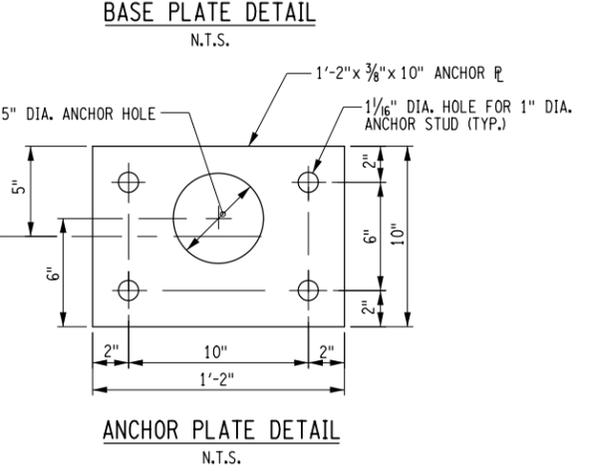
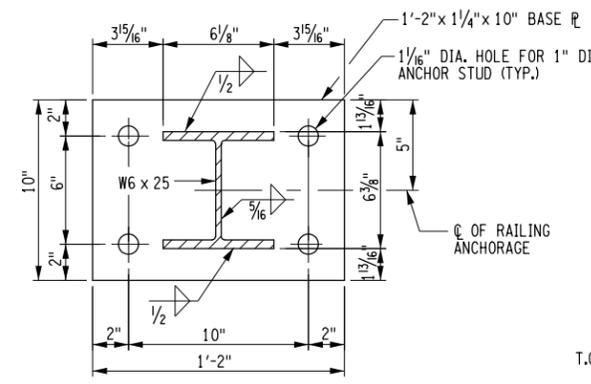
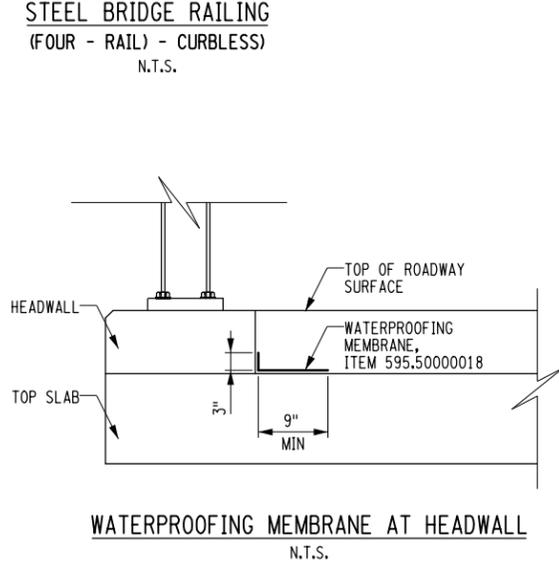
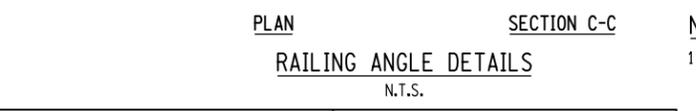
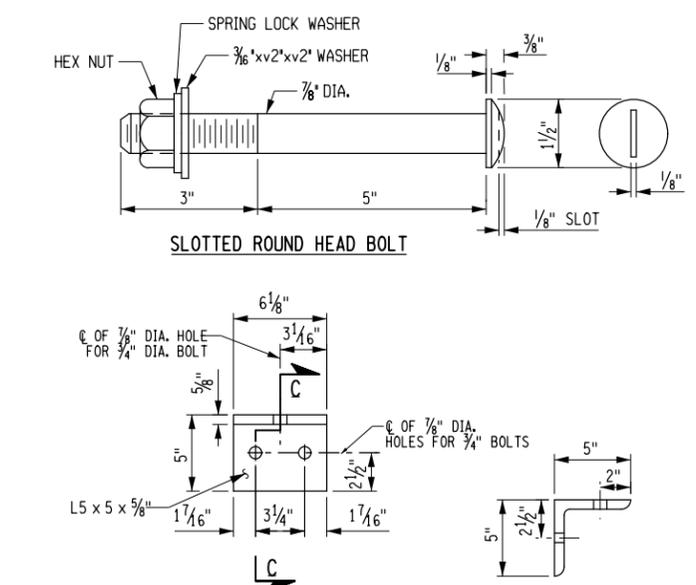
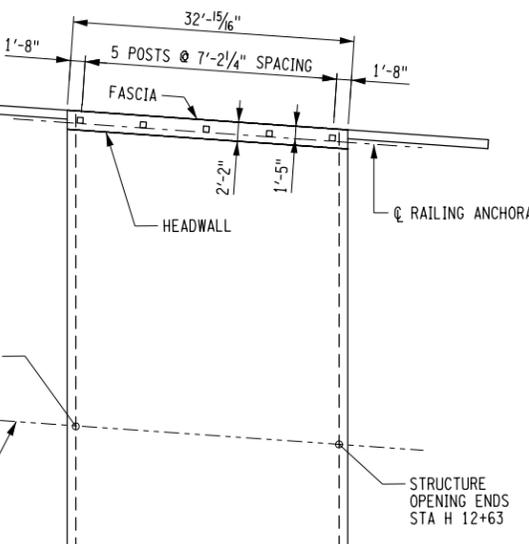
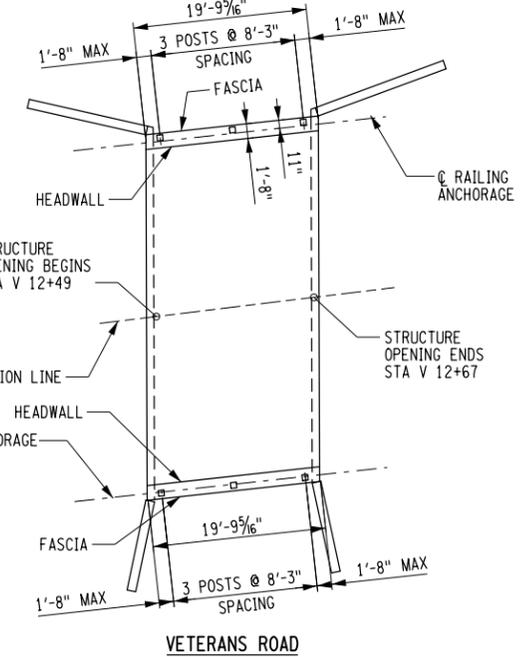
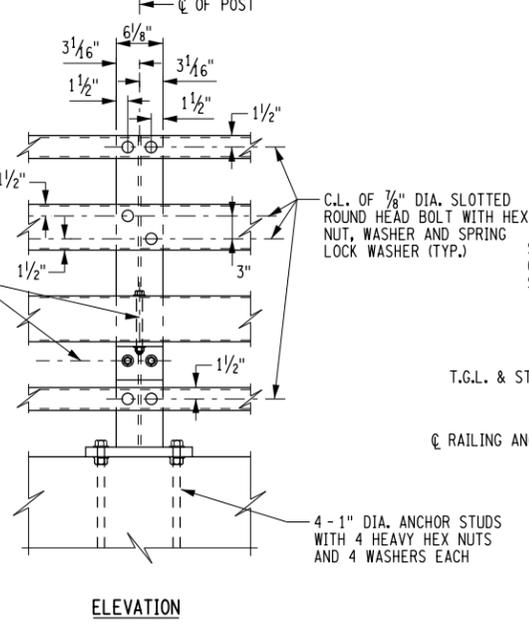
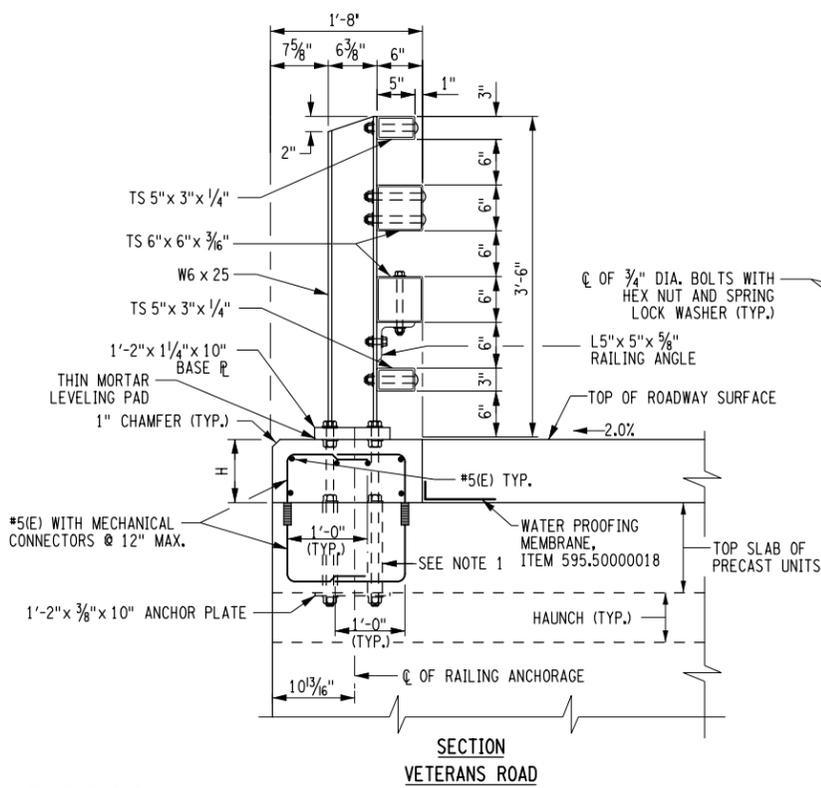
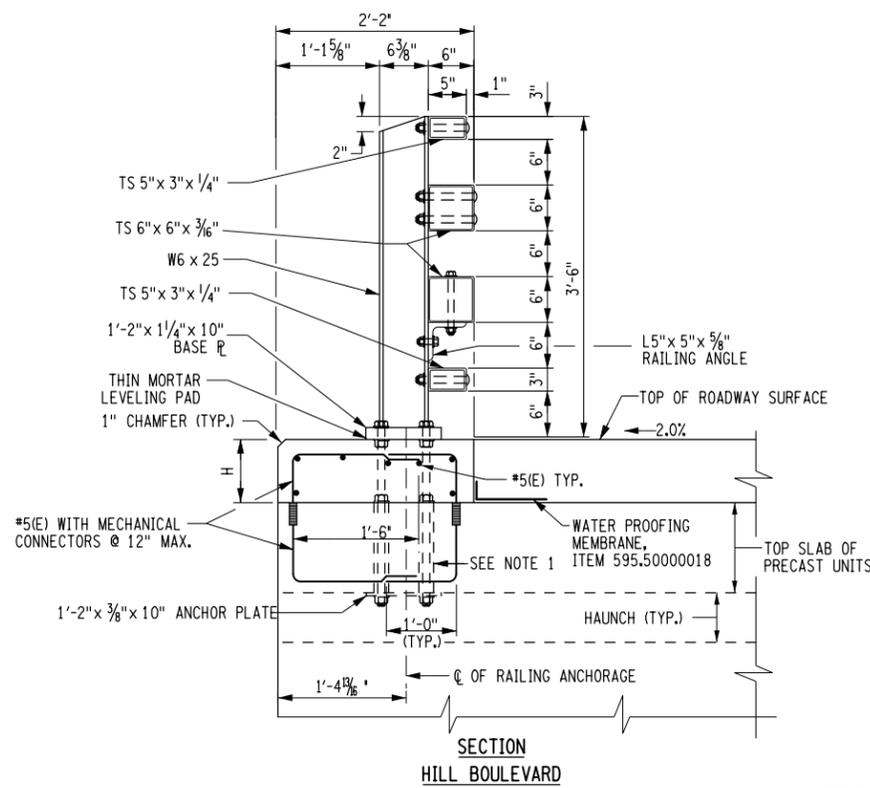
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DESIGN SUPERVISOR MM



- NOTES:**
- ANCHOR RODS SHALL BE GROUTED INTO 1 1/2" DIA THROUGH HOLES FORMED WITH SLEEVES OR MADE WITH A CORE DRILL. THE GROUT SHALL MEET THE REQUIREMENTS OF SECTION 701-05, CONCRETE GROUTING MATERIALS, AND APPEAR ON THE NYSOT APPROVED LIST.
 - ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS. BRIDGE RAILING IS PAID FOR UNDER ITEM 568.51. TRANSITION RAILING IS PAID FOR UNDER ITEM 568.70.
 - PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
 - BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 ft-lb).

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER REGION: 8	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK PIN 8761.66 8761.71	VETERANS ROAD OVER HALLOCKS MILL BROOK PS&E DATE: MARCH 2020	TOWN OF YORKTOWN	REGION: 8	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
						BRIDGE RAIL DETAILS (1 OF 2)	DRAWING NO. RAL-1 SHEET NO. 49

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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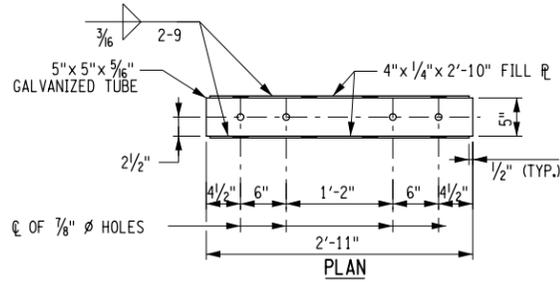
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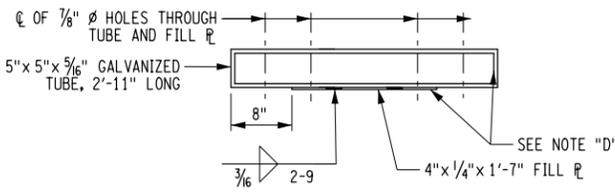
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DESIGN SUPERVISOR MM

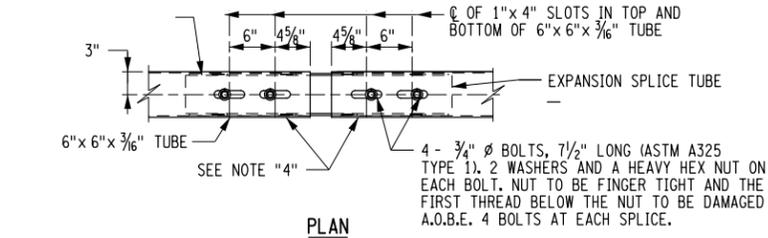


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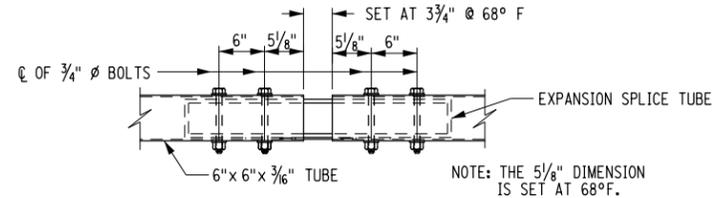


ELEVATION

EXPANSION SPLICE TUBE
N.T.S.

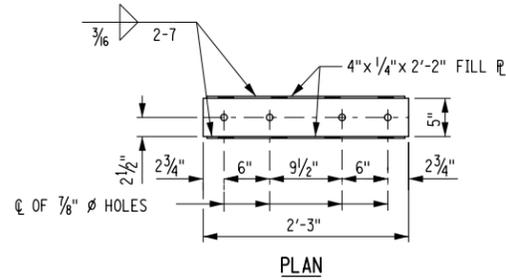


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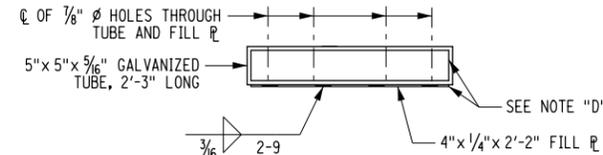


ELEVATION

EXPANSION SPLICE TUBE ASSEMBLY
N.T.S.

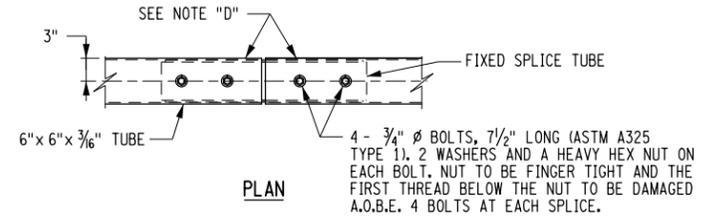


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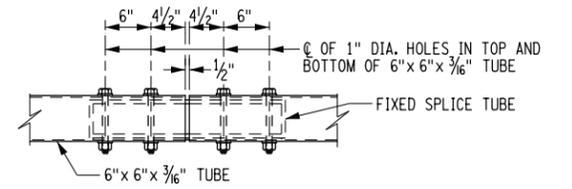


ELEVATION

FIXED SPLICE TUBE
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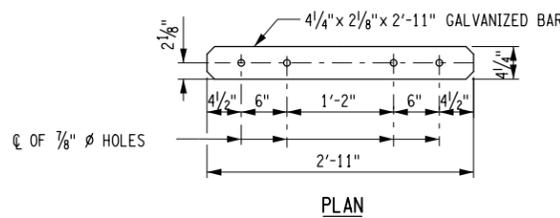


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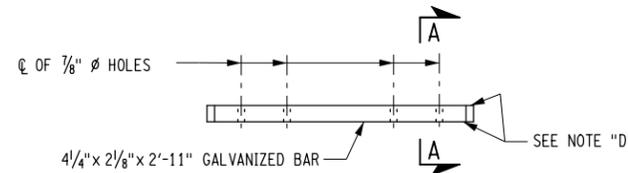


ELEVATION

FIXED SPLICE TUBE ASSEMBLY
N.T.S.

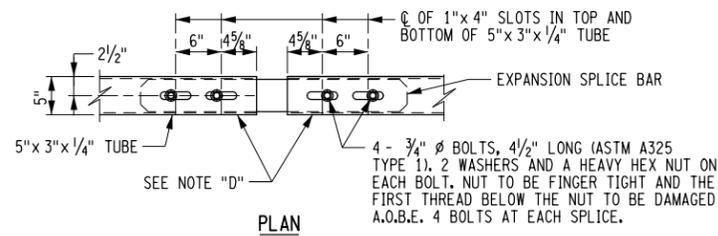


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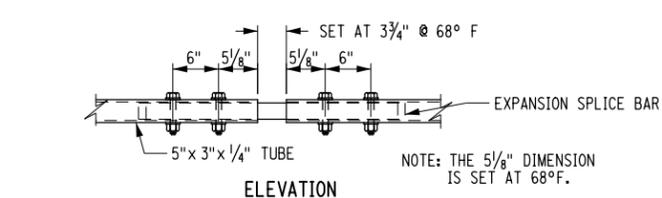


ELEVATION

EXPANSION SPLICE BAR
N.T.S.

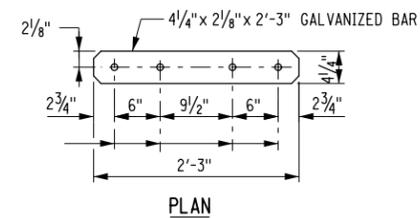


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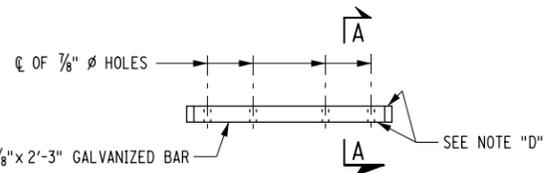


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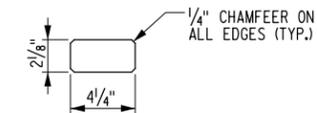
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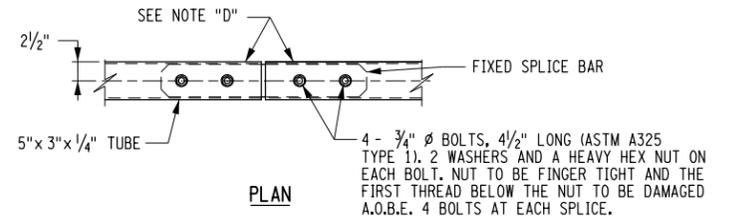


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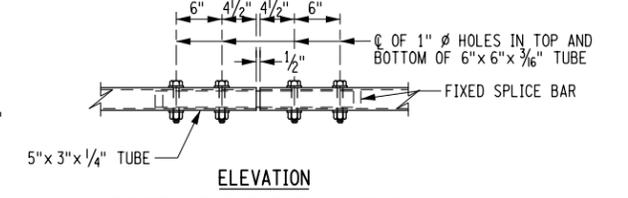


SECTION A-A

FIXED SPLICE BAR
N.T.S.



PLAN



ELEVATION

FIXED SPLICE BAR ASSEMBLY
N.T.S.

NOTES:

- ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS. BRIDGE RAIL IS PAID FOR UNDER ITEM 568.51, TRANSITION RAIL IS PAID FOR UNDER ITEM 568.70.
- PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
- BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
- NOTE "D": PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

AFFIX SEAL: ON: ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK
VETERANS ROAD OVER HALLOCKS MILL BROOK
TOWN OF YORKTOWN
COUNTY: WESTCHESTER REGION: 8

PIN 8761.66 8761.71

PS&E DATE: MARCH 2020

BRIDGES

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

BRIDGE RAIL DETAILS (2 OF 2)

DRAWING NO. RAL-2

SHEET NO. 50

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.



PROJECT MANAGER DW

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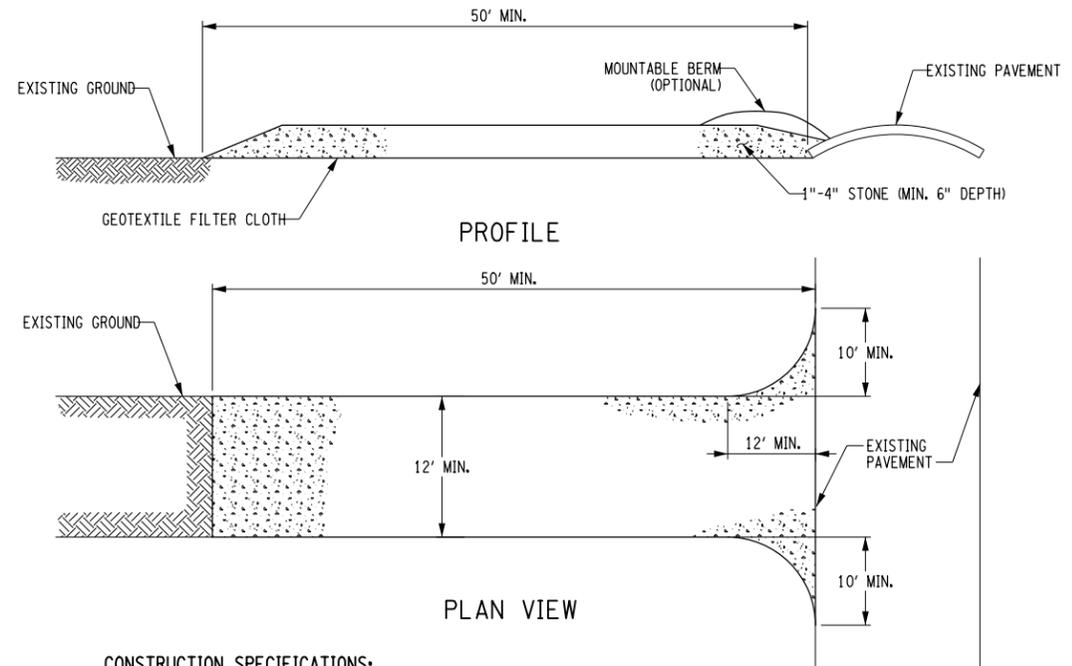
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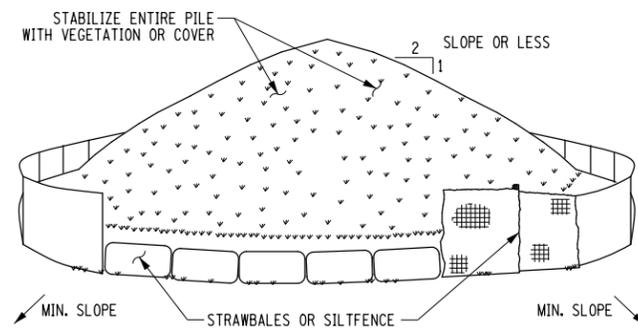
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DESIGN SUPERVISOR MM



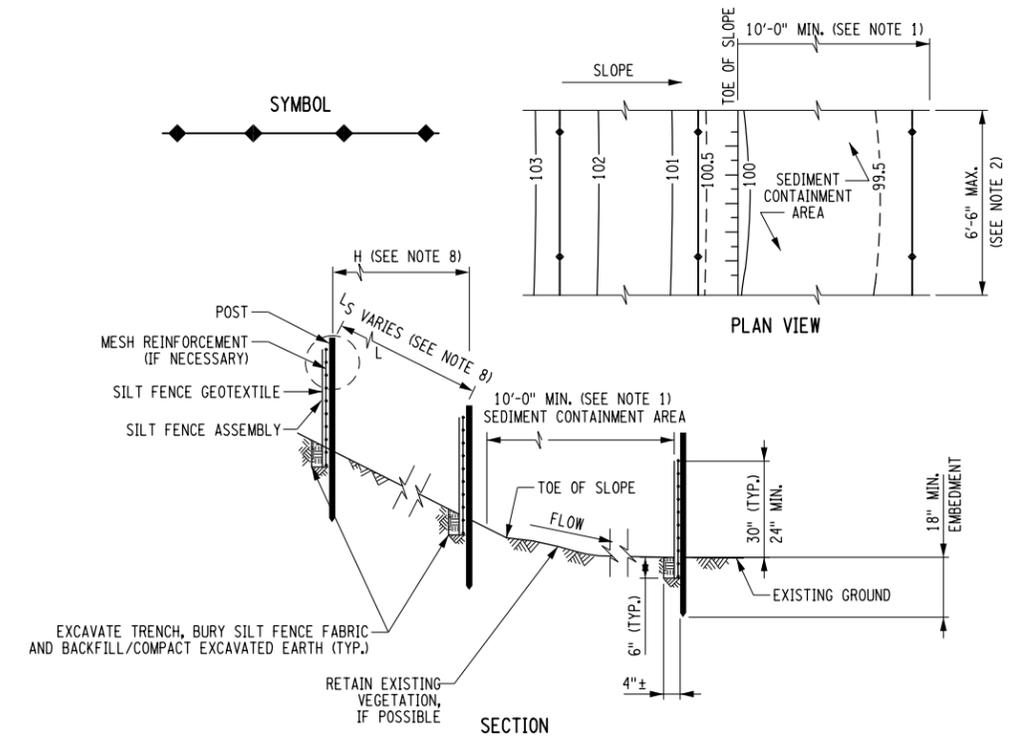
- CONSTRUCTION SPECIFICATIONS:**
1. STONE SIZE - USE 1" -4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ANTI-TRACKING APRON DETAIL
N.T.S.



- NOTE:**
THE CONTRACTOR IS ALERTED TO THE FACT THAT THERE IS LIMITED SPACE AVAILABLE ON-SITE FOR STOCKPILING OF SOIL. THE CONTRACTOR SHALL THEREFORE BE REQUIRED TO REMOVE MATERIAL FROM THE PROJECT AREA DAILY, IF NECESSARY, TO PREVENT EXCESSIVE MATERIAL FROM ACCUMULATING ON-SITE.
- INSTALLATION NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILTFENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING DETAIL
N.T.S.



TEMPORARY SILTFENCE DETAIL
N.T.S.

- APPLICATION NOTES (SILTFENCE):**
1. THE PRIMARY PURPOSE OF A SILTFENCE OR STRAWBALE DIKE IS TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENT. VELOCITY IS REDUCED, WATER IS IMPOUNDED BEHIND THE MEASURE, AND SEDIMENT FALLS OUT OF SUSPENSION.
 2. SILTFENCE OR STRAWBALE DIKE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). THEY MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM, AS SHOWN IN THE DETAIL.
 3. STRAWBALE DIKE OR SILTFENCE SHALL NOT BE USED IN OR ACROSS A FLOWING NATURAL CHANNEL, OR AREAS OF CONCENTRATED FLOW.
- GENERAL NOTES (SILTFENCE):**
1. PLACEMENT OF SILTFENCE OR STRAWBALE DIKE SHALL PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
 2. POSTS MAY BE 1 1/4" X 1 1/4" (MIN.) HARDWOOD, 1 1/2" X 3 1/2" (MIN.) SOFTWOOD, OR 1.3 LB/FT (MIN.) STEEL. SPACING FOR THE PROVIDED SILTFENCE SHALL BE AS DESIGNATED ON THE DEPARTMENT APPROVED LIST FOR SILTFENCE.
 3. BALES FOR DIKE SHALL BE INSTALLED WITH CUT ENDS VERTICAL, AND BALES BURIED A MINIMUM OF 4".
 4. THE BOTTOM EDGE OF SILTFENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
 5. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS OR AFTER EACH RAINFALL OF 1/2" OR MORE WITHIN A 24 HOUR PERIOD. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
 6. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
 7. DRAINAGE AREAS: MAXIMUM DRAINAGE AREA TRIBUTARY TO 100'-0" OF SILTFENCE SHALL BE 1/4 ACRE. MAXIMUM DRAINAGE AREA TRIBUTARY TO 100'-0" OF STRAWBALE DIKE SHALL BE 1/4 ACRE.
 8. THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS TO THESE MEASURES:
- | SILTFENCE / STRAWBALE DIKE | | |
|----------------------------|----------------------------------|----------------------------------|
| SLOPE | SLOPE LENGTH L _s (FT) | HORIZ LENGTH L _H (FT) |
| 2:1 | 25 | 22 |
| 3:1 | 50 | 47 |
| 4:1 | 75 | 73 |
| 5:1 | 100 | 98 |
| >5:1 | 100 | 98 |
9. INSTALLATION, INCLUDING EXCAVATION, BACKFILL, AND COMPACTION OF STRAWBALE DIKES AND SILTFENCE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM.

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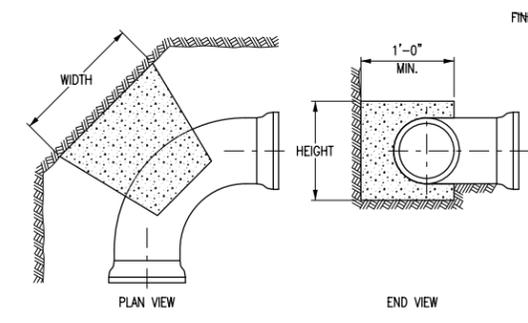
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020			SOIL EROSION AND SEDIMENT CONTROL DETAILS	DRAWING NO. ECD
TOWN OF YORKTOWN					SHEET NO. 52
COUNTY: WESTCHESTER	REGION: 8				

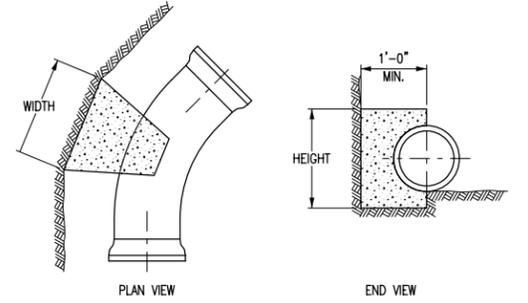
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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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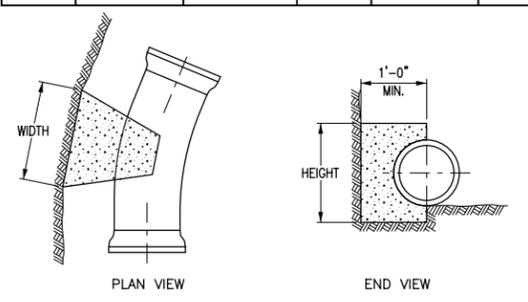
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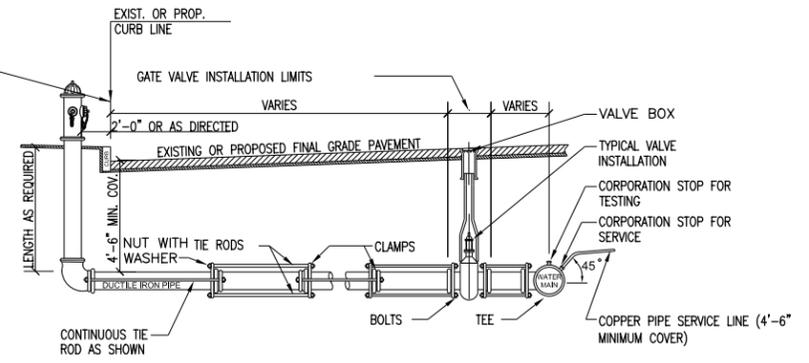
90° BEND THRUST BLOCK DIMENSIONING					
PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)	PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)
4 NPS	2'-3"	1'-3"	14 NPS	7'-3"	3'-6"
6 NPS	3'-3"	1'-9"	16 NPS	8'-3"	4'-0"
8 NPS	4'-3"	2'-3"	18 NPS	9'-3"	4'-6"
10 NPS	5'-3"	2'-6"	20 NPS	10'-6"	5'-0"
12 NPS	6'-0"	3'-3"	24 NPS	12'-6"	6'-0"



45° BEND THRUST BLOCK DIMENSIONING					
PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)	PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)
4 NPS	2'-0"	0'-9"	14 NPS	5'-3"	2'-6"
6 NPS	2'-6"	1'-3"	16 NPS	5'-6"	3'-3"
8 NPS	3'-3"	1'-9"	18 NPS	7'-3"	3'-3"
10 NPS	4'-0"	2'-0"	20 NPS	7'-3"	4'-0"
12 NPS	4'-6"	2'-3"	24 NPS	8'-9"	4'-6"

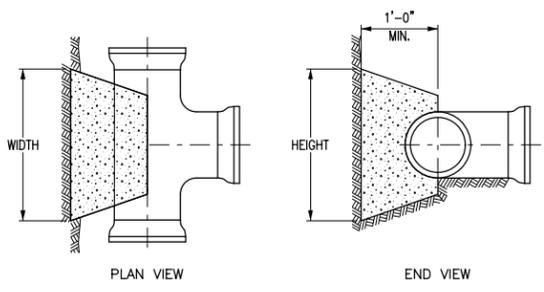


22 1/2° BEND THRUST BLOCK DIMENSIONING					
PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)	PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)
4 NPS	1'-3"	0'-9"	14 NPS	3'-6"	2'-0"
6 NPS	2'-0"	0'-9"	16 NPS	4'-6"	2'-3"
8 NPS	2'-3"	1'-3"	18 NPS	5'-0"	2'-6"
10 NPS	3'-0"	1'-3"	20 NPS	5'-0"	3'-0"
12 NPS	3'-3"	1'-9"	24 NPS	6'-3"	3'-3"



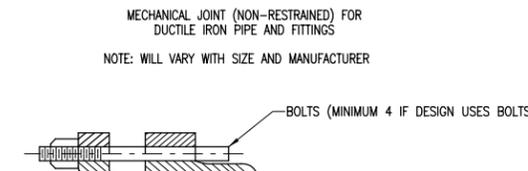
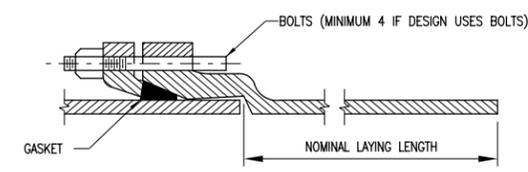
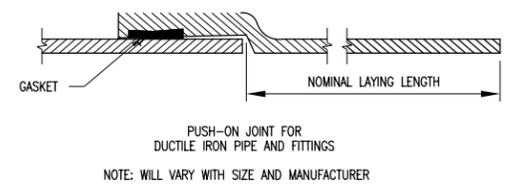
TYPICAL DETAIL OF CLAMP AND TIE ROD INSTALLATION FOR HYDRANT LEADS
 N.T.S.

PIPE	CLAMPS	RODS	BOLTS	STEEL WASHER
6"	1/2" x 2"	3/4"	5/8"	1/2" x 3"
8"	5/8" x 2-1/2"	3/4"	5/8"	1/2" x 3"
10"	5/8" x 2-1/2"	7/8"	3/4"	1/2" x 3"
12"	5/8" x 3"	1"	7/8"	1/2" x 3-1/2"



TEE/DEAD END THRUST BLOCK DIMENSIONING					
PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)	PIPE SIZE	WIDTH (FT-IN)	HEIGHT (FT-IN)
4 NPS	2'-0"	1'-0"	14 NPS	5'-6"	3'-3"
6 NPS	3'-0"	1'-3"	16 NPS	6'-6"	3'-6"
8 NPS	3'-3"	2'-0"	18 NPS	7'-6"	4'-0"
10 NPS	4'-3"	2'-3"	20 NPS	8'-6"	4'-3"
12 NPS	5'-3"	2'-6"	24 NPS	10'-3"	5'-3"

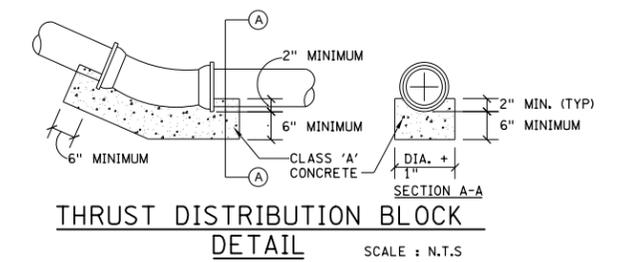
NOTE:
 FOR MECHANICAL JOINT PIPE, TITON AND PVC PIPE TIE RODS MUST BE USED IN THE CONJUNCTION WITH THE CONCRETE THRUST BLOCKS FOR HYDRANTS, VALVES ON TEES AND WHEREVER REQUIRED BY ENGINEER.



MECHANICAL JOINT BOLT TORQUE		
NPS SIZE	BOLT SIZE	TORQUE (LBF/FT)
3	?"	45-60
4-24	?"	75-90
30-36	1"	100-120
42-48	1 1/2"	120-150

MINIMUM RESTRAINED LENGTH OF PIPE (FT-IN) L				
FITTING	4 NPS	6 NPS	8 NPS	
11.25° BEND	1'-3"	2'-0"	2'-6"	
22.5° BEND	1'-3"	2'-0"	2'-6"	
45° BEND	3'-0"	4'-0"	5'-3"	
90° BEND	7'-0"	9'-9"	12'-6"	
DEAD END	8'-6"	12'-6"	16'-0"	

NOTE: PVC PIPE WILL TYPICALLY HAVE SLIGHTLY GREATER RESTRAINED LENGTH
 NOTE: FOR POLYETHYLENE WRAPPED PIPE, MULTIPLY VALUES IN TABLE BY 1.45



- NOTES:
- THRUST RESTRAINT USING THRUST BLOCKS OR RESTRAINED LENGTHS ARE SHOWN ON THESE SHEETS. THRUST BLOCKS, RESTRAINED JOINTS USING TIE RODS, OR RETAINER GLANDS ARE ALL ACCEPTABLE METHODS TO NYSDOT. HOWEVER, THE THRUST RESTRAINT METHOD SELECTED SHALL BE APPROVED BY THE SYSTEM OWNER.
 - IF THE OWNER OF THE WATER SYSTEM REQUIRES A METHOD THAT RESTRAINS INDIVIDUAL JOINTS, EACH JOINT THAT FALLS WITHIN THE MINIMUM RESTRAINED LENGTH, MEASURED FROM THE CENTER OF THE FITTING, AS SHOWN ON THESE SHEETS SHALL BE RESTRAINED, AND SHALL WITHSTAND THE MAXIMUM PRESSURE APPLIED TO THE SYSTEM.
 - CLASS A CONCRETE SHALL NOT BE PLACED UNDER WATER. THE CONTRACTOR SHALL DEWATER THE EXCAVATION OR PLACE TYPE G CONCRETE USING APPROPRIATE UNDERWATER PLACEMENT TECHNIQUES.
 - CONCRETE FOR THRUST BLOCKS SHALL NOT BE ALLOWED TO COVER OR INTERFERE WITH JOINT OR RESTRAINT HARDWARE. PLASTIC SHEETING OR BUILDING FELT MAY BE PLACED OVER PIPE OR FITTINGS TO PREVENT CONCRETE FROM ADHERING TO SURFACES. CONCRETE FOR THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 - FOR BENDS, BEARING AREA SHALL BE PARALLEL TO THE EDGE OF THE FITTING AT THE FITTING MIDPOINT.
 - FOR TEES, BEARING AREA SHALL BE PERPENDICULAR TO THE BRANCH (SINGLE LEG) AXIS.
 - FOR REDUCERS, BEARING AREA SHALL BE PERPENDICULAR TO THE FITTING AXIS. THE MINIMUM THICKNESS ALONG THE FITTING AXIS SHALL BE 1'-0" OR THE LENGTH BETWEEN THE BELLS, WHICHEVER IS SMALLER.
 - THRUST RESTRAINTS FOR SIZES OVER 24 NPS OR FOR FITTINGS NOT SHOWN ON THESE SHEETS WILL BE DESIGNED ON A CASE BY CASE BASIS, AND WILL BE SHOWN IN THE CONTRACT DOCUMENTS.
 - THRUST BLOCK SIZES AND MINIMUM RESTRAINED LENGTHS SHOWN ON THESE SHEETS ARE BASED UPON THE FOLLOWING STANDARD CONDITIONS:
 1.5 - SAFETY FACTOR
 5'-0" - DEPTH OF COVER
 200 PSI - WATER SYSTEM TEST PRESSURE
 14 PSI - SOIL BEARING CAPACITY
 90 LB/CF - SOIL UNIT WEIGHT
 - FOR INSTALLATIONS NOT MEETING THE CONDITIONS OF NOTE 10, THE CONTRACTOR SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR APPROVAL OF RESTRAINT LENGTH CHOSEN.
 - TO DETERMINE REQUIRED SIZES FOR DIFFERENT CONDITIONS, MULTIPLY THE DIMENSION BY A FACTOR OF THE SPECIFIC VALUE DIVIDED BY THE STANDARD VALUE.
 EXAMPLE: FIND THRUST BLOCK DIMENSION FOR 12 NPS 45° BEND WITH 100 PSI TEST PRESSURE:
 FROM TABLE "45° BEND THRUST BLOCK DIMENSIONING",
 AREA REQUIRED AT 200 PSI IS 4'-6" X 2'-3" = 10.125 SF
 FOR 100 PSI, AREA = 10.125 X (100/200) = 5.06 SF
 USE WIDTH = 3'-6", HEIGHT = 1'-6" (AREA = 5.25 SF)
 - PAYMENT FOR THRUST BLOCKS SHALL BE INCLUDED UNDER THE APPROPRIATE WATER MAIN FITTING ITEMS 663.2001 AND 663.2002.

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	VETERANS ROAD OVER HALLOCKS MILL BROOK	PS&E DATE: MARCH 2020			WATERMAIN DETAILS 1 OF 3	DRAWING NO. WMD-1 SHEET NO. 53
	TOWN OF YORKTOWN					
	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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PROJECT MANAGER DW

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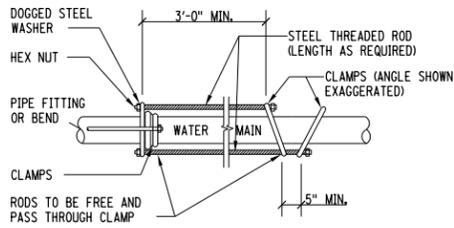
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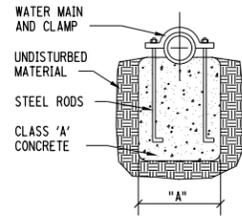
DESIGN NS

JOB MANAGER DW

DESIGN SUPERVISOR MM



•ALL STEEL USED SHALL BE STAINLESS STEEL.
DOUBLE CLAMP DETAIL
 SCALE : N.T.S.



FULL LENGTH CLAMP DETAIL
 SCALE : N.T.S.

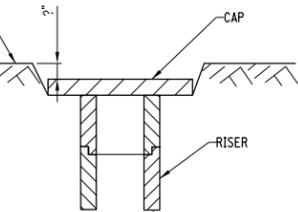
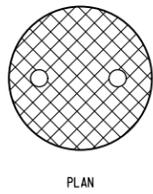
BEND	PIPE DIAMETER (d)						
	6"	8"	10"	12"	14"	16"	
45° 1/8 BEND	A	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	B	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	C	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
	D	12"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"
22° 30' 1/16 BEND	A	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	B	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	C	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	D	12"	12"	1'-6"	2'-0"	2'-6"	3'-0"
11° 15' 1/32 BEND	A	3/4"	3/4"	7/8"	1"	1-1/8"	1-1/8"
	B	2'-0"	2'-0"	2'-6"	2'-6"	3'-0"	3'-6"
	C	1'-6"	2'-0"	2'-6"	2'-6"	3'-0"	3'-6"
	D	2'-0"	2'-6"	2'-6"	3'-6"	4'-0"	4'-6"
	ROD DIA.	3/4"	3/4"	3/4"	7/8"	1"	1"

PIPE DIAMETER	DEFLECTION				DEAD END
	11-1/4°	22-1/2°	45°	90°	
4" & 6"	10'	10 FT.	10'	14 FT.	10 FT.
8"	10'	10 FT.	10'	14 FT.	11 FT.
10"	10'	10 FT.	10'	15 FT.	12 FT.
12"	10'	10 FT.	11'	18 FT.	13 FT.
14"	10'	10 FT.	13'	21 FT.	16 FT.
16"	10'	10 FT.	15'	24 FT.	19 FT.

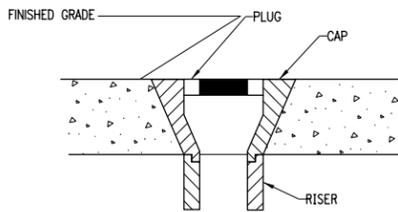
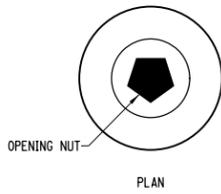
NOTES:

- THE DISTANCES SHOWN ARE THE LINEAL FEET OF PIPE TO BE RODDED ON EACH SIDE OF THE FITTING OR THE LINEAL FEET OF PIPE RODDED BACK FROM A PLUGGED DEAD END.
- THE LIMITS SHOWN ABOVE MAY BE INCREASED WHERE SPECIFICALLY SHOWN ON THE PLANS OR DETAILS.

TIE ROD SIZE			CLAMP SIZE	
PIPE DIA.	ROD DIA.	BOLT DIA.	PIPE DIA.	CLAMP
4"	3/4"	5/8"	4"	1/2" x 2"
6"	3/4"	5/8"	6"	1/2" x 2"
8"	3/4"	5/8"	8"	5/8" x 2-1/2"
10"	7/8"	3/4"	10"	5/8" x 2-1/2"
12"	1"	7/8"	12"	5/8" x 2-1/2"
14"	1-1/8"	1"	14"	3/4" x 4"
16"	1-1/8"	1"	16"	3/4" x 4"

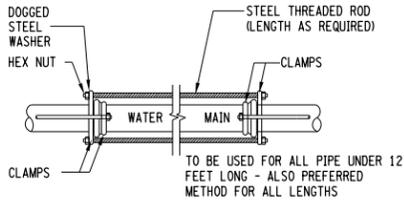


TWO-HOLE TYPE - CROSS SECTION
 USED IN GRASSED OR LANDSCAPED AREAS

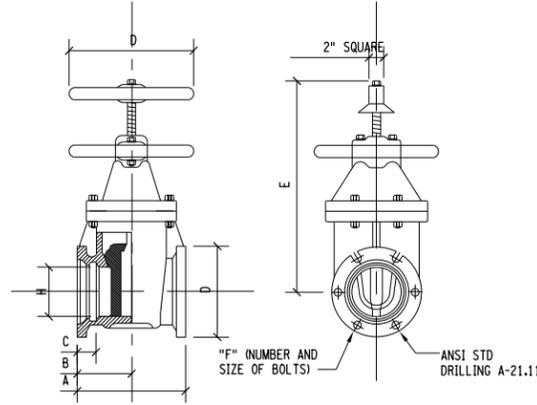


PLUG TYPE - CROSS SECTION
 USED IN SIDEWALKS OR PAVED AREAS

CURB BOX CAPS - PAID FOR UNDER ITEM 663.2607
 N.T.S.



•ALL STEEL USED SHALL BE STAINLESS STEEL

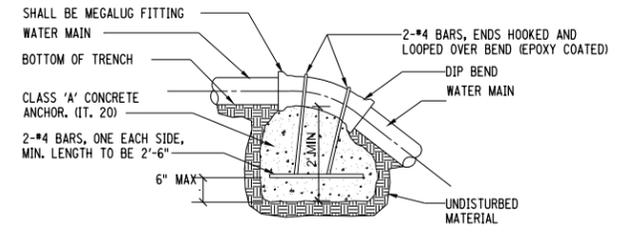


VALVE SIZE	A	B	C	D	E	F	G	H
2	8-1/4	8-1/4	2.50	4-1/2	10-7/8	2-5/8	7-1/4	2
2-1/2	---	---	---	---	---	---	---	---
3	8-1/2	8-1/2	2.50	7-3/4	12-3/8	4-5/8	10	3
4	9-1/2	9-1/2	2.50	9-1/8	14-3/4	4-3/4	10	4-1/4
6	10	10	2.50	11-1/8	19"	6-3/4	12	6-1/4
8	10-1/2	10-1/2	2.50	13-3/4	22-1/2	6-3/4	14	8-1/4
10	12	12	2.50	15-3/4	26-1/2	8-3/4	18	10-1/4
12	13	13	2.62	18	30	8-3/4	18	12-1/4

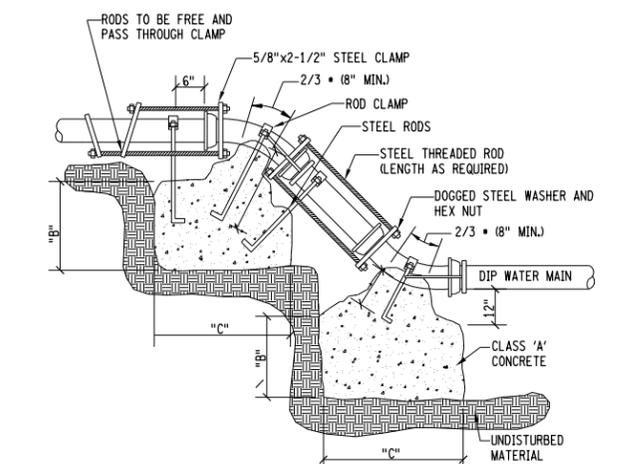
TYPICAL GATE VALVE DETAIL
 SCALE : N.T.S.

NOTES:

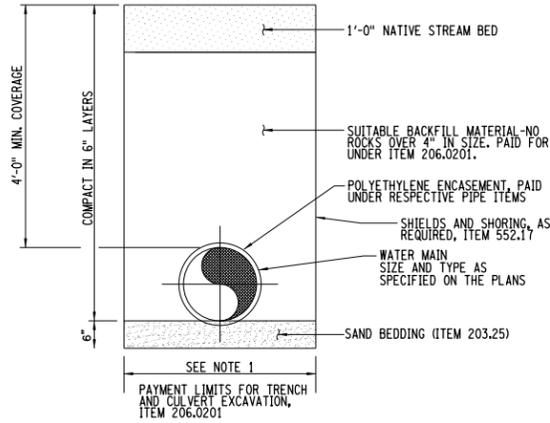
- THE LENGTH AND WIDTH OF THE CONCRETE BLOCK COMBINED WITH THE MINIMUM DEPTH AT 2' SHALL BE SUFFICIENT TO GIVE A MINIMUM VOLUME OF CONCRETE AS INDICATED ON THE PLAN.
- THE CAST FOR THE EXCAVATION, PLACING OF CONCRETE AND OTHER INCIDENTAL EXPENSES NECESSARY TO CONSTRUCT CONCRETE ANCHORS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE MASONRY (CLASS B). MEASUREMENTS FOR PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO THOSE DIMENSIONS AS SHOWN ON THE DETAIL.



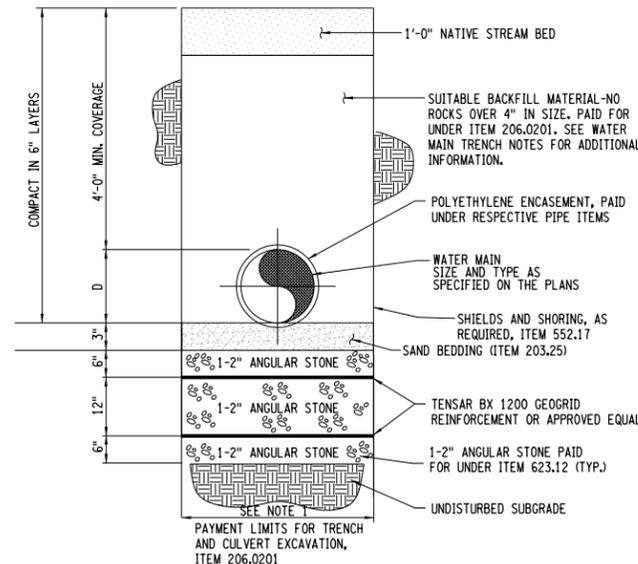
CONCRETE ANCHOR DETAIL
 N.T.S.



BUTRESSES AND DEFLECTION HARNESING DETAIL
 N.T.S.



WATER MAIN TRENCH DETAIL - SUITABLE SOIL
 N.T.S.



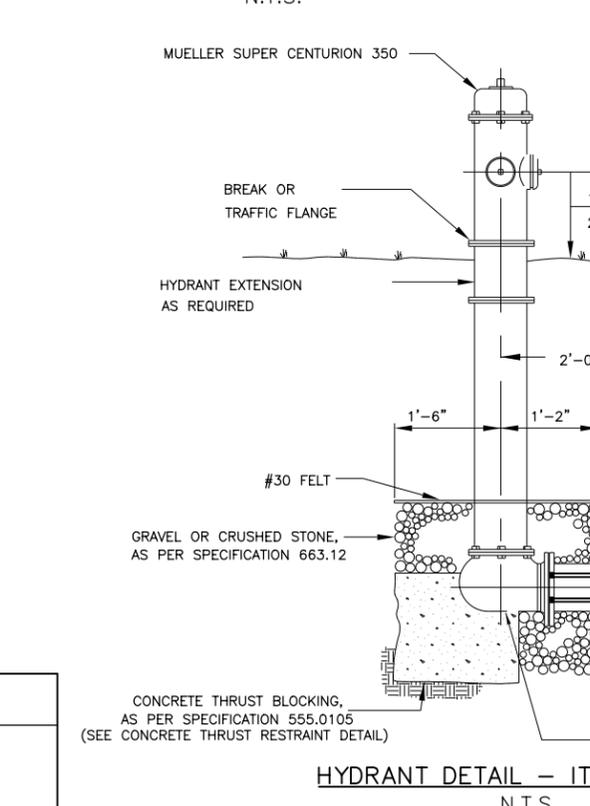
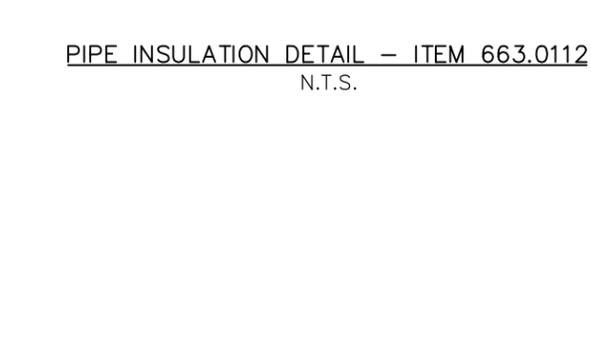
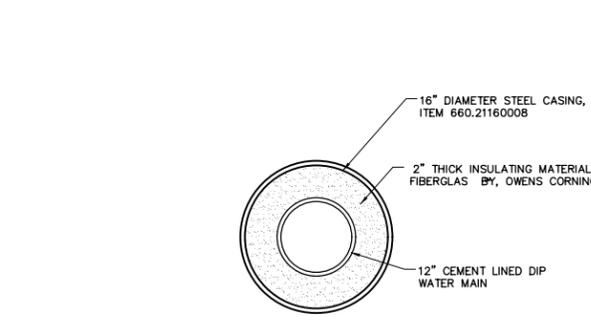
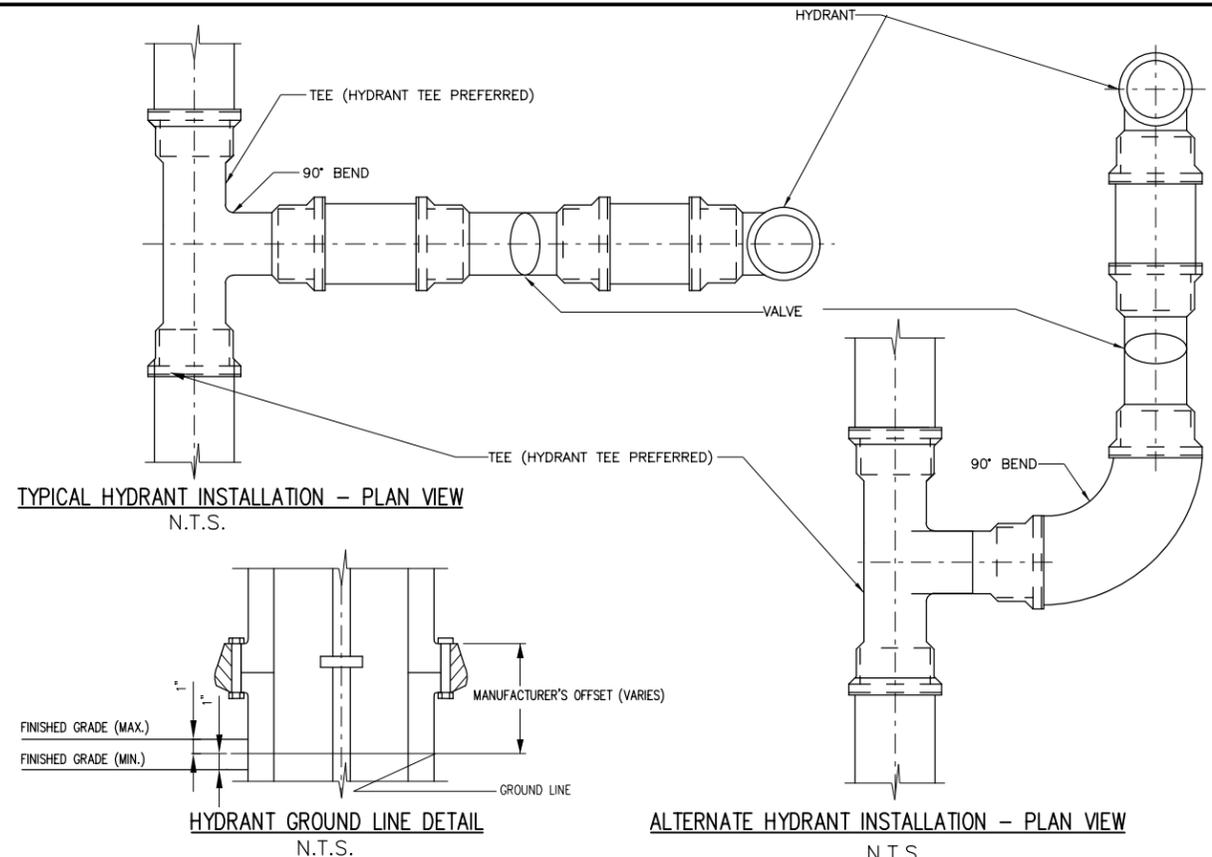
WATER MAIN TRENCH DETAIL - UNSUITABLE SOIL
 N.T.S.

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
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.	

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020			WATERMAIN DETAILS 2 OF 3	DRAWING NO. WMD-2 SHEET NO. 54

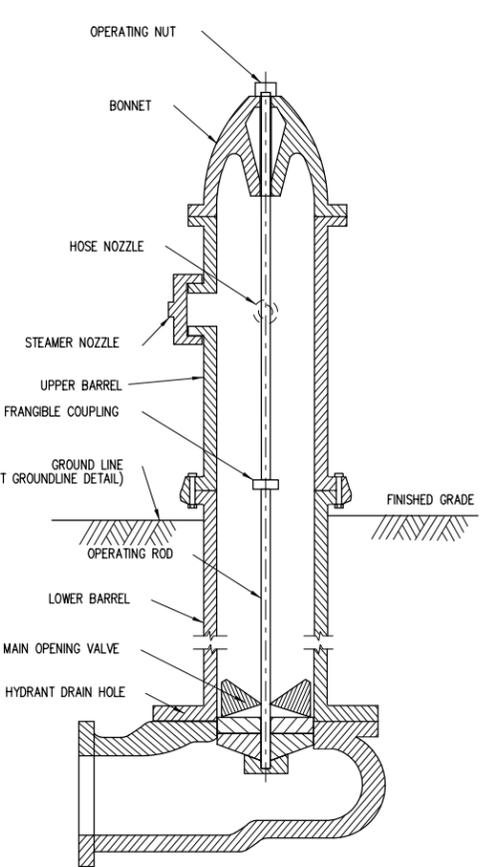
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 DESIGN SUPERVISOR MM

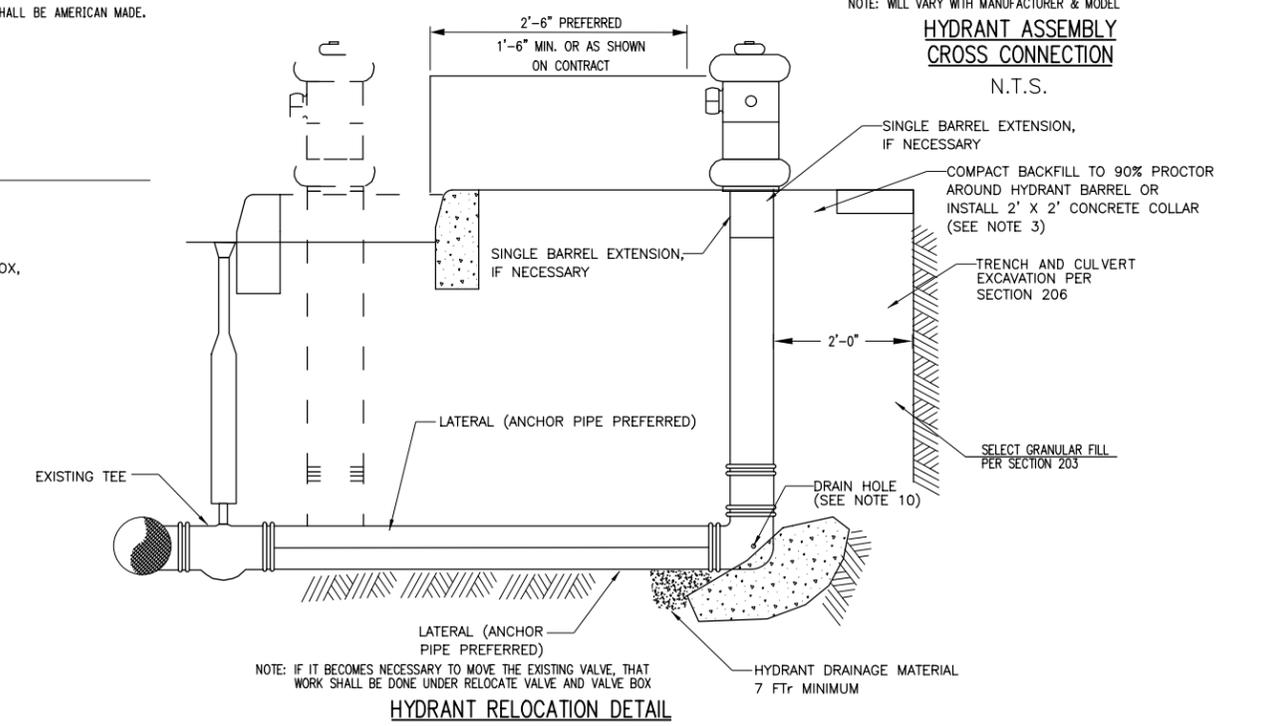


- HYDRANT NOTES:**
- ALL NEW HYDRANTS SHALL BE DRY-BARREL MUELLER SUPER CENTURION 350 WITH NST TREADS AND A LEFT OPENING. TRAFFIC MODELS IN ACCORDANCE WITH AWWA STANDARD C502 UNLESS SPECIFICALLY REQUIRED OTHERWISE BY THE OWNER REQUIREMENTS. THE GROUND LINE MARKED ON THE HYDRANT, OR IDENTIFIED BY THE MANUFACTURER USING AN OFFSET FROM A KNOWN POINT ON THE HYDRANT, SHALL BE WITHIN 1" ABOVE OR BELOW FINISHED GRADE. THE HYDRANT SHALL BE INSTALLED SO THAT NO PORTION OF THE LOWER BARREL (THAT PORTION REMAINING IF THE UPPER BARREL IS BROKEN OFF) EXTENDS MORE THAN 4" ABOVE FINISHED GRADE, MEASURED OVER 5'-0" HORIZONTAL SPAN. PROVIDE (1) 4" AND (2) 2 1/2" NOZZLES PER HYDRANT.
 - WHEN THE HYDRANT CANNOT BE PLACED IN THE DESIRED LOCATION DUE TO CLOSE PROXIMITY TO THE MAIN, THE ALTERNATE HYDRANT LOCATION LAYOUT MAY BE USED.
 - MULTIPLE BARREL EXTENSIONS ARE NOT PERMITTED UNLESS THE DESIRED GRADE CANNOT BE REACHED WITH A SINGLE EXTENSION. IF A SMALLER EXTENSION IS ALREADY IN PLACE ON AN EXISTING HYDRANT, IT SHALL BE REMOVED AND REPLACED WITH A SINGLE LONGER ONE. THE REMOVED EXTENSIONS SHALL BECOME THE PROPERTY OF THE OWNER.
 - BACKFILL AROUND THE TOP OF THE LOWER BARREL SHALL BE COMPACTED TO A MINIMUM DENSITY OF 90% PROCTOR IN ACCORDANCE WITH STANDARD Y203-3.15 OR A 2' X 2' IN CONCRETE COLLAR SHALL BE CAST AROUND THE BARREL IN ORDER TO PREVENT MOVEMENT OF THE SHOE - IF THE HYDRANT IS STUCK.
 - LATERALS FOR HYDRANTS USING ANCHOR PIPES SHALL BE SINGLE PIECE, UNLESS MORE THAN A FULL LENGTH OF ANCHOR PIPE IS REQUIRED. LATERALS FOR HYDRANTS USING THRUST RESTRAINT PROVIDED BY MEANS OTHER THAN AN ANCHOR PIPE SHALL BE SINGLE PIECE, UNLESS MORE THAN A FULL LENGTH (18'-0") OF PIPE IS REQUIRED.
 - NEW WATER MAINS INSTALLED PARALLEL TO STORM AND/OR SANITARY SEWER CONDUITS SHALL HAVE A MINIMUM OF 10'-0" HORIZONTAL SEPARATION (MEASURED EDGE OF PIPE TO EDGE OF PIPE) WHENEVER POSSIBLE. WHEN 10'-0" HORIZONTAL SEPARATION CANNOT BE MAINTAINED, A VERTICAL SEPARATION OF AT LEAST 1'-6" BETWEEN BOTTOM OF WATER MAIN AND TOP OF SEWER PIPE SHALL BE MAINTAINED. IF NEITHER HORIZONTAL OR VERTICAL SEPARATION CAN BE MAINTAINED, THE WATER AND THE SEWER SHALL BE CONSTRUCTED AS SHOWN ON THE CONTRACT PLANS AND APPROVED BY THE APPROPRIATE HEALTH AGENCY.
 - THE RELOCATION OF AN EXISTING HYDRANT SHALL INCLUDE THE INSTALLATION LENGTH OF ANCHOR PIPE UP TO 6'-6" LONG, INSTALLED AT ANY POINT BETWEEN THE MAIN AND THE HYDRANT.
 - THRUST RESTRAINTS SHALL BE PROVIDED AS FOR A DEAD END AND AS REQUIRED BY THE OWNER'S REQUIREMENTS.
 - THE HYDRANT DRAIN HOLE SHALL BE KEPT UNOBSTRUCTED. CARE SHALL BE USED TO KEEP THRUST RESTRAINTS FROM BLOCKING DRAIN HOLE. IF THE HYDRANT DRAIN IS LOCATED WITHIN 10'-0" OF A SANITARY SEWER OR STORM DRAIN, OR IF GROUNDWATER IS FOUND WITHIN 6'-6" OF FINISHED GRADE, THE HYDRANT DRAINS SHALL BE PLUGGED.
 - HYDRANT DRAINAGE MATERIAL SHALL BE #1 OR #2 STONE PER STANDARD Y703-02.
 - MATERIALS REMOVED UNDER REMOVE EXISTING HYDRANT SHALL REMAIN THE PROPERTY OF THE SYSTEM OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 48 HOURS PRIOR TO REMOVAL TO COORDINATE PICK-UP, OR SHALL STORE THE MATERIALS FOR PICK-UP ON-SITE A.O.B.E.
 - MATERIALS REMOVED UNDER REMOVE AND DISPOSE OF EXISTING HYDRANT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE WORK SITE A.O.B.E.
 - ALL FITTINGS, HYDRANTS, VALVES, AND PIPING SHALL BE AMERICAN MADE.

- HYDRANT DRAIN NOTES:**
- HYDRANT DRAINS SHOULD BE PLUGGED. WHEN THE DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER.
 - WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINAGE MATERIAL SHALL BE #1 OR #2 STONE PER NYSDOTSS 703-02.
 - HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS, STORM SEWERS OR STORM DRAINS, SEE HYDRANT NOTE #9.
 - HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER TABLE, SEE HYDRANT NOTE #9.



NOTE: WILL VARY WITH MANUFACTURER & MODEL
HYDRANT ASSEMBLY CROSS CONNECTION
 N.T.S.



NOTE: IF IT BECOMES NECESSARY TO MOVE THE EXISTING VALVE, THAT WORK SHALL BE DONE UNDER RELOCATE VALVE AND VALVE BOX
HYDRANT RELOCATION DETAIL
 N.T.S.

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HILL BOULEVARD OVER TRIBUTARY TO BARGER CREEK	
VETERANS ROAD OVER HALLOCKS MILL BROOK	
TOWN OF YORKTOWN	
COUNTY: WESTCHESTER	REGION: 8

PIN 8761.66 8761.71	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
PS&E DATE: MARCH 2020			WATERMAIN DETAILS 3 OF 3	DRAWING NO. WMD-3 SHEET NO. 55

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.