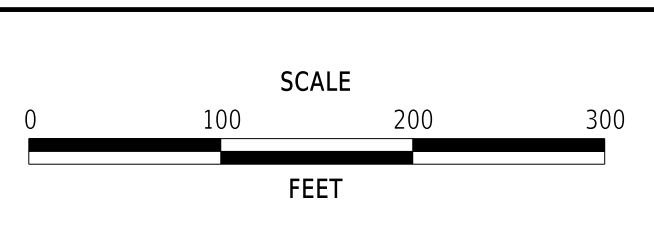


**XX** CORRESPONDS TO THE CROSS REFERENCE SHEET LABEL ON EACH PLAN SHEET.

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ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

<b>INDEX OF SHEETS</b>	SECTION CEN
	SHEET NO. 2

ADDENDUM PREPARED BY



THIS SEAL APPLIES TO THE FOLLOWING SHEETS  
CHANGED UNDER ADDENDUM #X:  
XX, XX-XX, XX

DATE

SEAL

REVISION PREPARED BY



THIS SEAL APPLIES TO THE FOLLOWING SHEETS  
CHANGED UNDER REVISION #X:  
XX, XX-XX, XX

DATE

SEAL

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT  
T202104204  
COUNTY  
KENT

BRIDGE NO. N/A  
DESIGNED BY: A. HALLER  
CHECKED BY: L. HAXTON

ADDENDA AND  
REVISIONS

SECTION  
CEN  
SHEET NO.  
3

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BARRIER - DOUBLE-FACED, PERMANENT			
BARRIER - SINGLE-FACED, PERMANENT, TEST LEVEL 4 / TEST LEVEL 5	BARRIER, TYPE "X"		B XXX
BARRIER - HIGH TENSION CABLE (HTCB)			
BARRIER - HTCB END TERMINAL			
BOLLARD - STEEL POLE			
BOLLARD - WOOD POST			
CURB, TYPE 1 AND TYPE 3			
CURB, TYPE 2	CURB, TYPE "X"		
CURB & GUTTER, TYPE 1			C XXX
CURB & GUTTER, TYPE 2			
CURB & GUTTER, TYPE 3	C&G, TYPE "X"		
CURB OPENING - SUMP / ON GRADE			C O
CURB/SW OPENING - ADJACENT CURB			CO SW
CURB/SW OPENING - NON-ADJACENT CURB			
FENCE - CHAINLINK OR STRANDED			F XXX
FENCE - STOCKADE OR SPLIT RAIL			
FLAG POLE	F.P.		
GUARDRAIL - STEEL BEAM, TYPE 1			
GUARDRAIL - STEEL BEAM, TYPE 2			
GUARDRAIL - STEEL BEAM, TYPE 3			
GUARDRAIL - WIRE ROPE			
GUARDRAIL - END ANCHORAGE			OR XXX
GUARDRAIL - END TREATMENT, TYPE 1			
GUARDRAIL - END TREATMENT, TYPE 2			
GUARDRAIL - END TREATMENT, TYPE 3			
IMPACT ATTENUATOR			
LAMP AND POST - RESIDENTIAL	LAMP 		
MAILBOX	MB 	MB 	
PARKING METER AND POST	P.M. 		
PAVEMENT - FLEXIBLE			
PAVEMENT - RIGID			
PILE - BRIDGE			
PILLAR OR MISCELLANEOUS POST			
TRAFFIC SIGN AND POST			
WALL - BRICK OR BLOCK			
WALL - STONE			

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BIOFILTRATION SWALE			
DITCH OR STREAM (V-SHAPE / TRAPEZOIDAL)			
DIRECTIONAL STREAM FLOW ARROW			
DRAINAGE INLET	C.B. 	D.I. 	DI XXX
DRAINAGE JUNCTION BOX	J.B. 		JB XXX
DRAINAGE MANHOLE			RM XXX
DRAINAGE PIPE AND FLOW ARROW	SIZE/TYPE LABEL 		P XXX
FLARED END SECTION			FES XXX
RIPRAP - AREA FEATURE			RR XXX
RIPRAP - LINEAR FEATURE			
SAFETY END STRUCTURE			SES XXX
UNDERDRAIN			UD XXX
UNDERDRAIN OUTLET			UDO XXX

UTILITY FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
COMMUNICATIONS DISTRIBUTION BOX	CD 	TV 	
COMMUNICATIONS MANHOLE	C 	T 	C
COMMUNICATIONS TEST POINT	CT 	T 	
COMMUNICATIONS - UNDERGROUND	COMM(A) 	COMM 	
ELECTRIC - UNDERGROUND	E(A) 	E 	
ELECTRIC MANHOLE	E 	E 	E
ELECTRIC METER	EM 		
ELECTRIC TRANSFORMER	E 		
GAS - UNDERGROUND	G(A) 	G 	
GAS MANHOLE	G 	G 	G
GAS METER	G.M. 		
GAS VALVE	G.V. 		
GAS PUMP - SERVICE STATION	G.P. 		
IRRIGATION - UNDERGROUND	IR(A) 	IR 	
ITMS - UNDERGROUND	ITMS(A) 	ITMS 	
LIGHTING - UNDERGROUND	LI(A) 	LI 	
LUMINAIRE - POLE MOUNTED			
MANHOLE - UNDETERMINED OWNER			
RAILROAD TRACKS			
SANITARY - UNDERGROUND	S(A) 	S 	
SANITARY SEWER MANHOLE	S 	S 	S
SANITARY SEWER VALVE	S.V. 		
SANITARY SEWER CLEANOUT OR VENT	S.C.O. 		
SEPTIC DRAIN FIELD	S.D.F. 		
SIGNALIZATION - UNDERGROUND	SIG(A) 	SIG 	
SOIL BORING LOCATION			
TELEPHONE BOOTH	B 		
TRAFFIC - CONDUIT JUNCTION WELL	J.W. 		
TRAFFIC - LIGHT POLE AND BASE			
TRAFFIC - PEDESTRIAN POLE & BASE			
TRAFFIC - SIGNAL CABINET & BASE			
TRAFFIC - SIGNAL POLE AND BASE			
UTILITY BOX	U 		
UTILITY MARKER	UM 		
UTILITY POLE GUY WIRE ANCHOR			
UTILITY POLE			
UTILITY TEST HOLE LOCATION			
WATER - UNDERGROUND	W(A) 	W 	
WATER - FIRE HYDRANT	F.H. 	F.H. 	
WATER METER	W.M. 		
WATER VALVE	WV 	WV 	
WELL HEAD	WELL 		

PAVEMENT SECTION(S)	
OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS	

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE STUMP		
SHRUBBERY		
WETLAND BOUNDARY - DELINEATED	WL 	
WOODS LINE BOUNDARY		

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
DENIAL OF ACCESS	DA 	DA 
EASEMENT - OTHERS	EASEMENT TYPE 	
PERMANENT EASEMENT	PE 	PE 
PROPERTY LINE		
PROPERTY MARKER - CONCRETE	C.M. 	
PROPERTY MARKER - IRON PIPE	I.P. 	
RIGHT-OF-WAY BASELINE	100+00 	100+00 
RIGHT-OF-WAY LINE	R/W 	R/W 
RIGHT-OF-WAY BY PE	R/W-PE 	
RIGHT-OF-WAY & DENIAL OF ACCESS	R/W-DA 	R/W-DA 
RIGHT-TO-ENTER		RTE 
TEMPORARY CONSTRUCTION EASEMENT		TCE 

SURVEY CONTROL & MONUMENTATION	
FEATURE DESCRIPTION	EXISTING
POINT OF CURVATURE OR TANGENCY	
POINT OF INTERSECTING TANGENTS	
SURVEY BENCHMARK LOCATION	B.M. 
SURVEY NGS POINT LOCATION	
SURVEY TIE POINT LOCATION	T.P. 
SURVEY TRAVERSE POINT	

MISCELLANEOUS FEATURES	
FEATURE DESCRIPTION	PROPOSED
BRICK PATTERNED SURFACE	
BUTT JOINT	
CLEAR ZONE	CZ 
CONSTRUCTION BASELINE	100+00 
LATERAL OFFSET	LO 
LIMIT OF CONSTRUCTION	LOC 
PAVEMENT PATCH	
PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH	
P.C.C. SIDEWALK - 4"	
P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)	

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	AB C
ABANDON BY OTHERS	AB O
ADJUST BY CONTRACTOR	A C
ADJUST BY OTHERS	A O
BEST MANAGEMENT PRACTICE	BMP XXX
BUS STOP PAD / TYPE	BSP X
BUS STOP WITH SHELTER PAD / TYPE	BSP X
CONCRETE SAFETY BARRIER	B XXX
CONVERT TO JUNCTION BOX	CJB XXX
CONVERT TO DRAINAGE MANHOLE	CD XXX
DO NOT DISTURB	DND
ENERGY DISSIPATOR	ED XXX
FILL WITH FLOWABLE FILL	FF C
LANDSCAPE PLANTINGS	LS XXX
PEDESTRIAN CONNECTION / TYPE	PC XX
PEDESTRIAN CONNECTION / TYPE WITHOUT DETECTABLE WARNING SYSTEM	PC-N XXX
RELOCATE BY CONTRACTOR	RL C
RELOCATE BY OTHERS	RL O
RELOCATE BY PROPERTY OWNER	RL PO
REMOVE BY CONTRACTOR	RM C
REMOVE BY OTHERS	RM O
REMOVE BY TRAFFIC CONTRACTOR	RM TC
RIGHT-OF-WAY MONUMENT	M XXX

PAVEMENT SECTION(S)	
OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS	

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ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

LEGEND

SECTION
CEN
SHEET NO.
4

## GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED JANUARY 2024 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2024.
- ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

( )	NONE
( X )	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
( X )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( X )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( X )	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

- PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

( X )	CROSS SECTIONS
( X )	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

## PROJECT NOTES

### SECTION 100

- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT (302) 659-4600 PRIOR TO ANY UNMANNED AERIAL VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.
- NIGHT WORK IS NOT PERMITTED ON THIS PROJECT UNLESS THE CONTRACTOR OBTAINS: APPROVAL FROM THE ENGINEER, ACCEPTABLE RESPONSES ON NIGHT WORK SURVEYS, AND ACCEPTANCE FROM THE MUNICIPALITY. METHOD AND FORMAT OF NIGHT WORK SURVEYS WILL BE PROVIDED BY THE ENGINEER UPON REQUEST. NIGHT WORK, SURVEYS, AND COORDINATION WITH MUNICIPALITIES IS NOT COMPENSABLE AND THE TIME TO COMPLETE THE SURVEYS IS NOT EXCUSABLE.

### SECTION 200

- THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE POSITIONED IN ACCORDANCE WITH THE LATEST VERSION OF THE UNITED STATES POSTAL SERVICE GUIDELINES. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE IN AN APPROPRIATE SIZE PVC SLEEVE. ACCEPTABLE POST SHALL BE 4 INCH X 4 INCH WOOD POST OR 4 INCH DIAMETER WOOD POST. FOR RELOCATING MULTIPLE MAILBOXES TOGETHER ALL POST SHALL BE SEPARATED BY A DISTANCE OF NO LESS THAN 3/4 OF THEIR FULL HEIGHT ABOVE THE GROUND. MULTIPLE MAILBOXES ATTACHED TO A SINGLE HORIZONTAL BOARD SHALL NOT BE LOCATED INSIDE THE CLEARZONE. EACH MAILBOX SHALL BE PLACED ON AN INDIVIDUAL POST MEETING THE CRITERIA ABOVE. ALL MAILBOXES SHALL BE SET NOT TO IMPEDE THE MINIMUM PAR (PEDESTRIAN ACCESS ROUTE) WIDTH AS DETERMINED BY THE CURRENT EDITION OF THE PEDESTRIAN ACCESSIBILITY STANDARDS FOR FACILITIES IN THE PUBLIC RIGHT OF WAY. IF MAILBOXES ARE NOT SET IN ACCORDANCE WITH THE ABOVE DIRECTIONS, RESETTING OF THE MAILBOXES WILL BE AT THE COST OF THE CONTRACTOR. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.
- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:  
PERMANENT DRAINAGE STRUCTURES, ABANDONED UTILITIES, FIRE HYDRANTS, WATER VALVES, TRAFFIC STRUCTURES AND FOUNDATIONS, JUNCTION WELLS, ABANDONED CONDUITS, LIGHT POLES, SIGNS AND PIEZOMETERS.
- UNLESS OTHERWISE NOTED AS DO NOT DISTURB OR ADJUST BY CONTRACTOR/OTHERS, ALL EXISTING FEATURES, INCLUDING TREES, WITHIN THE PROPOSED LOC SHALL BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER THE RESPECTIVE BID ITEM. REMOVAL OF EXISTING STORM DRAIN PIPE SHALL BE PAID UNDER ITEM 202000 UNLESS NOTED WITH A FLOWABLE FILL IDENTIFIER, REMOVAL OF TREES AND SHRUBS SHALL BE PAID FOR UNDER 201000, AND REMOVAL OF ADDITIONAL EXISTING FEATURES SHALL BE PAID FOR UNDER ITEM 211000 AS NOTED IN SECTION 200 OF THE PROJECT NOTES.

### SECTION 400

- THE PAVEMENT SECTION FOR FLEXIBLE PAVEMENT RESIDENTIAL DRIVEWAYS SHALL BE 2" BITUMINOUS CONCRETE, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD AS NEEDED TO MATCH EXISTING.

### SECTION 600

- DRAINAGE INLET GRATES ADJACENT TO THE CURB OR EDGE PAVING, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 OR TYPE 4, SHALL BE REPLACED WITH TYPE 1 (SAG) OR TYPE 4 (ON GRADE). INLET GRATES WITHIN THE PAVING, NOT ADJACENT TO THE CURB OR EDGE OF PAVING SHALL BE REPLACED WITH TYPE 3. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 602100 - DRAINAGE INLET GRATE(S) & ITEM 602101 - DRAINAGE INLET FRAME(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
- STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.

### SECTION 700

- PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.
- ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

### SECTION 900

- THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR POSTING AND MAINTAINING A LEGIBLE COPY OF THE NOI IN A VISIBLE LOCATION ON THE CONSTRUCTION SITE. THE NOI POSTING SHALL FOLLOW DELDOT'S APPROVED TEMPLATE. COSTS FOR POSTING AND MAINTAINING THE NOI IS INCIDENTAL TO THE CONTRACT.

## MISCELLANEOUS NOTES

- THE LOCATIONS OF ALL ABOVE GROUND ITEMS TO BE INSTALLED, SUCH AS SIGNS, ETC. SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.
- THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT\_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT\_DTC\_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT (302) 576-6019.
- ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LIMIT OF CONSTRUCTION (LOC) THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST. WITHIN 30 DAYS, DELDOT WILL;
  - APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);
  - REJECT THE REQUEST; OR
  - PERFORM AN ARCHAEOLOGICAL SURVEY TO DETERMINE WHETHER TO APPROVE OR REJECT THE REQUEST, WHICH MAY TAKE UP TO 3 MONTHS. IF AN ARCHAEOLOGICAL SURVEY IS NECESSARY, DELDOT OR A CONSULTANT ON ITS BEHALF WILL UNDERTAKE THE SURVEY.
- THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIALS, PER DELDOT STANDARD. AFTER PREPARATION OF THE SUBGRADE, PLACE ITEM 708001 - GEOTEXTILE, STABILIZATION, THEN BACKFILL WITH ITEM 209002 - BORROW, TYPE B.
- THE CONTRACTOR SHALL REMOVE ANY EXISTING UTILITIES, DENOTED AS ABANDONED, BY CUTTING AND CAPPING AT BOTH ENDS, WHEN IN CONFLICT WITH PROPOSED WORK. ALL COSTS TO REMOVE ABANDONED UTILITIES AND REQUIRED CAPPING SHALL BE INCIDENTAL TO THE ITEM BEING INSTALLED.
- THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT\_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT\_DTC\_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT 302-576-6019.
- ALL DART SIGNS HAVE BEEN UPDATED TO A NEW DESIGN. THE DELDOT SIGN SHOP DOES NOT FABRICATE THE UPDATED SIGN OR ANY SUPPLEMENTAL PLAQUES TO ALLOW FOR ADDITIONAL ROUTE NUMBERS. ALL REQUESTS FOR FABRICATION OF THESE SIGNS MUST BE MADE THROUGH DART TRANSIT AT (302) 576-6132.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE PILE OF TREE TRIMMINGS LEFT ON-SITE FROM ADVANCED UTILITY RELOCATIONS. ALL COSTS ARE PAID FOR UNDER ITEM 201000 - CLEARING AND GRUBBING.

EARTHWORK SUMMARY	
EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	7,677 C.Y.
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y.
TOPSOIL STRIPPING	0 C.Y.
TOTAL EXCAVATION	7,677 C.Y.
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED	272 C.Y.
BORROW TYPE 'B' REQUIRED (UNDERCUT)	806 C.Y.
BORROW TYPE 'F' REQUIRED	393 C.Y.
TOPSOIL REQUIRED	3,407 C.Y.
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	-272 C.Y.
BORROW TYPE 'B' REQUIRED	-806 C.Y.
BORROW TYPE 'F'	-393 C.Y.
TOPSOIL	-3,407 C.Y.
UNSUITABLE MATERIAL	7,677 C.Y.
NOTES:	
1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.	
2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.	
3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.	
* ASSUMES ALL EXCAVATED MATERIAL WILL BE HAULED OFF SITE.	

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ADDENDA / REVISIONS		NOT TO SCALE	HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS	CONTRACT	BRIDGE NO.	N/A	NOTES	SECTION
				T202104204	DESIGNED BY: A. HALLER			CEN
				COUNTY	CHECKED BY: L. HAXTON	SHEET NO.		
				KENT		5		

MATERIAL TYPE	BINDER GRADE	LIFT THICKNESS (IN)	
		MINIMUM	MAXIMUM
TYPE C (4.75 MM MIX)	ALL	0.5	1.0
TYPE C (9.5 MM MIX)	ALL	1.25	2.0
TYPE C (12.5 MM MIX)	ALL	1.5	2.0
TYPE B (19 MM MIX)	76-22, 70-22	2.25	4.0
TYPE B (19 MM MIX)	64-22	2.25	6.0
TYPE BCBC (25 MM MIX)	64-22	3.0	6.0
GABC	-	4.0	8.0

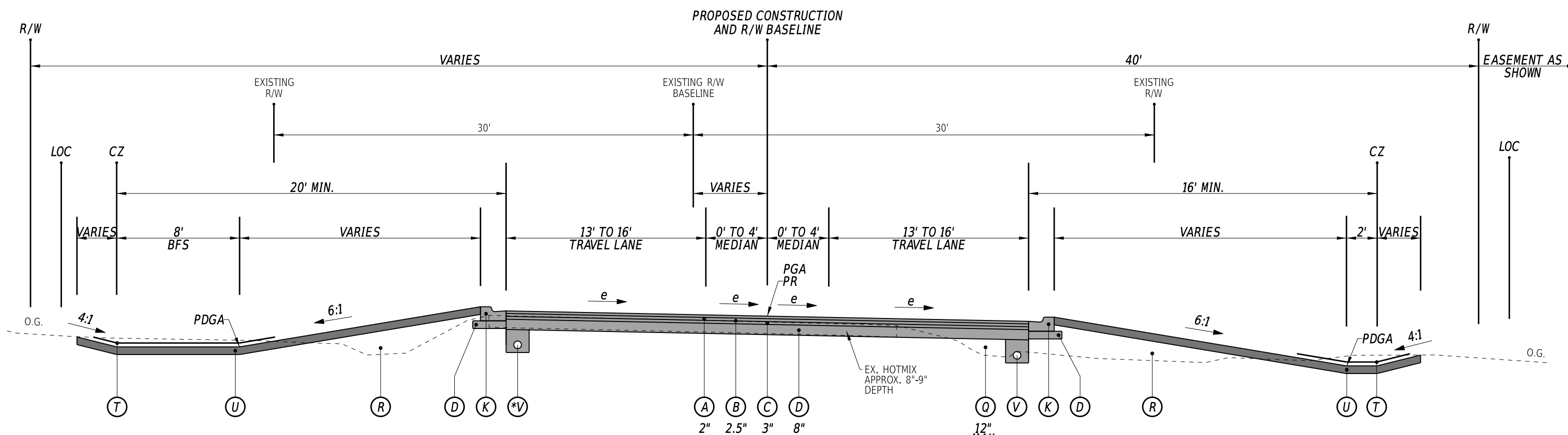
**NOTES:**

- BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- UTILIZE EROSION CONTROL BLANKET MULCH ON THE BOTTOM OF DITCHES AND UP 2 FT ON THE ADJACENT SLOPES UNLESS NOTED OTHERWISE. EROSION CONTROL BLANKET MULCH SHALL BE EXTENDED TO UNDERDRAIN OUTLET LOCATION, WHEN NECESSARY.
- EROSION CONTROL MULCH SHALL BE UTILIZED IN ALL PERMANENT GRASS SEEDING AREAS OUTSIDE OF EROSION CONTROL BLANKET MULCH FOOTPRINT.

**LEGEND**

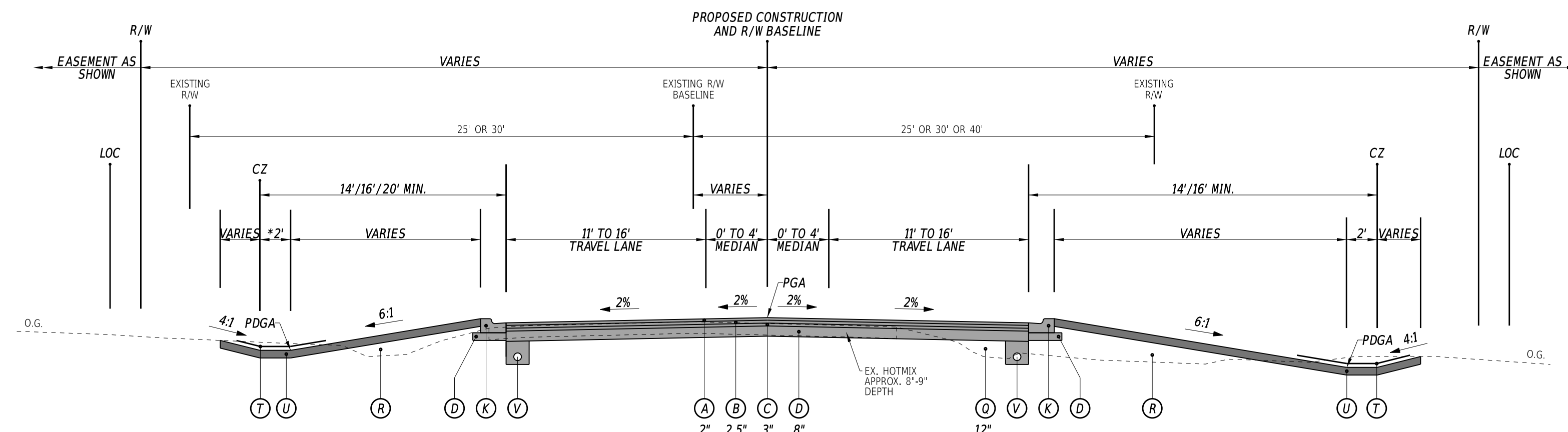
- (A) ITEM 401046 - SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)
- (B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22
- (C) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
- (D) ITEM 301001 - GABC
- (E) ITEM 401036 - SUPERPAVE TYPE C, PG 64-22, WEDGE
- (F) ITEM 760010 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT
- (G) ITEM 701011 - PCC CURB, TYPE 1-4
- (H) ITEM 701013 - PCC CURB, TYPE 1-8
- (I) ITEM 701014 - PCC CURB, TYPE 2
- (J) ITEM 701020 - 1.PCC CURB AND GUTTER, TYPE 3-2
- (K) ITEM 701023 - 1.PCC CURB AND GUTTER, TYPE 3-4
- (L) ITEM 701027 - PCC CURB, TYPE 1-2 ROUNDABOUT
- (M) ITEM 701025 - PCC CURB, TYPE 2 ROUNDABOUT
- (N) ITEM 705001 - PCC SIDEWALK, 4"
- (O) ITEM 705005 - PCC SIDEWALK, 8"
- (P) ITEM 705521 - PATTERNED PCC SIDEWALK, 8"
- (Q) ITEM 209001 - BORROW, TYPE A
- (R) ITEM 209006 - BORROW, TYPE F
- (S) SAFETY EDGE
- (T) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (U) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908026 - EROSION CONTROL MULCH
- (V) ITEM 709001 - PERFORATED PIPE UNDERDRAINS, 6"

PR - POINT OF ROTATION    PGA - PROFILE GRADE APPLICATION  
PDGA - PROFILE DITCH GRADE APPLICATION



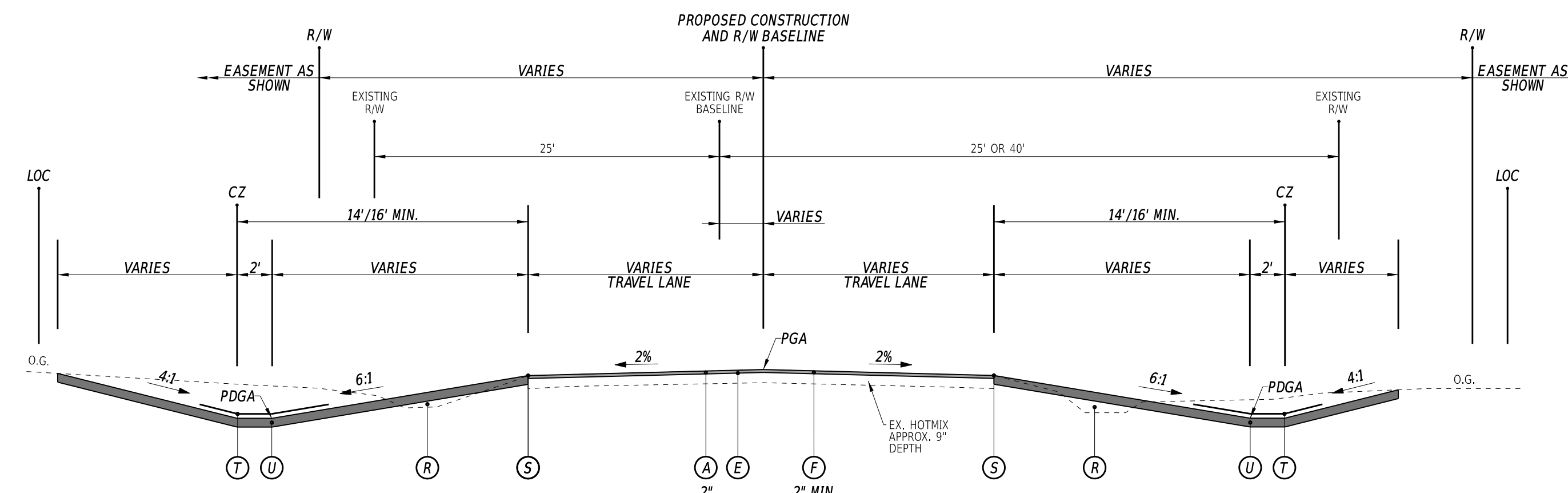
\* NO PROPOSED UNDERDRAIN LT FROM STATION 202+48 TO 203+66.

**TYPICAL SUPERELEVATED SECTION - KENTON ROAD**  
STATION 202+00 TO 203+66



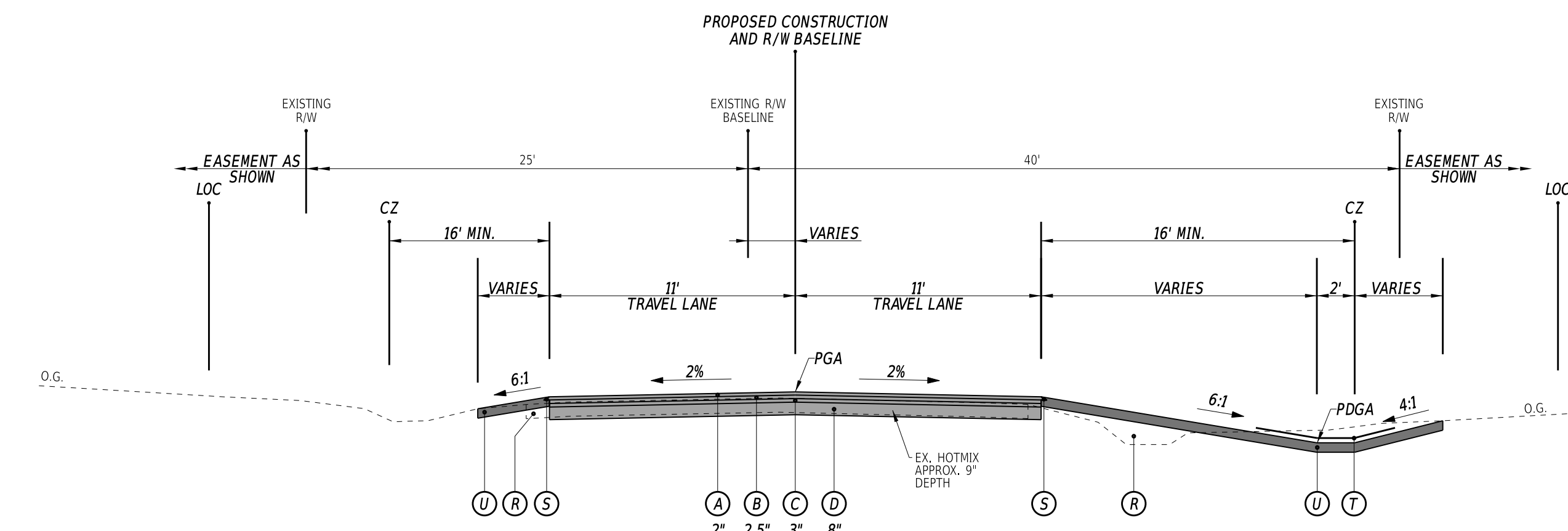
**TYPICAL SECTION - KENTON ROAD & CENTRAL CHURCH ROAD**  
STATION 107+93 TO 109+93    STATION 307+56 TO 308+91  
STATION 201+15 TO 202+00    STATION 401+65 TO 402+75

\* PROPOSED BFS LT (8' FLAT BOTTOM) FROM STATION 201+15 TO 202+00.



**TYPICAL SECTION - KENTON ROAD & CENTRAL CHURCH ROAD**  
STATION 106+41 TO 107+00    STATION 304+25 TO 306+25  
STATION 404+00 TO 405+00

NOTE: NO PROPOSED DITCH LT FROM STATION 106+41 TO 107+00  
STATION 304+25 TO 305+50  
STATION 404+00 TO 405+00  
NO PROPOSED DITCH RT FROM STATION 304+25 TO 306+25  
STATION 404+31 TO 405+00



**TYPICAL SECTION - KENTON RD**  
STATION 107+00 TO 107+93

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**TYPICAL SECTIONS**

SECTION
CEN
SHEET NO.
6

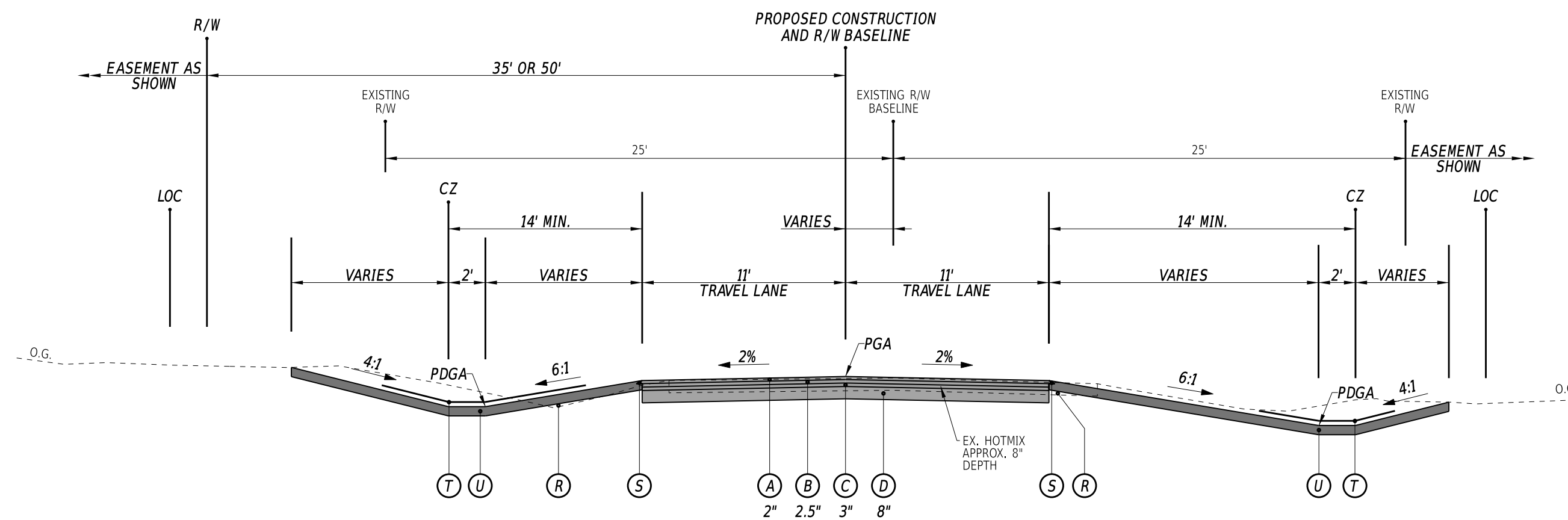
**LEGEND**

- (A) ITEM 401046 - SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)
- (B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22
- (C) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
- (D) ITEM 301001 - GABC
- (E) ITEM 401036 - SUPERPAVE TYPE C, PG 64-22, WEDGE
- (F) ITEM 760010 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT
- (G) ITEM 701011 - PCC CURB, TYPE 1-4
- (H) ITEM 701013 - PCC CURB, TYPE 1-8
- (I) ITEM 701014 - PCC CURB, TYPE 2
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- (K) ITEM 701023 - 1.PCC CURB AND GUTTER, TYPE 3-4
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- (N) ITEM 705001 - PCC SIDEWALK, 4"
- (O) ITEM 705005 - PCC SIDEWALK, 8"
- (P) ITEM 705521 - PATTERNED PCC SIDEWALK, 8"
- (Q) ITEM 209001 - BORROW, TYPE A
- (R) ITEM 209006 - BORROW, TYPE F
- (S) SAFETY EDGE
- (T) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (U) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908026 - EROSION CONTROL MULCH
- (V) ITEM 709001 - PERFORATED PIPE UNDERDRAINS, 6"

PR - POINT OF ROTATION    PGA - PROFILE GRADE APPLICATION  
PDGA - PROFILE DITCH GRADE APPLICATION

MATERIAL TYPE	BINDER GRADE	LIFT THICKNESS (IN)	
		MINIMUM	MAXIMUM
TYPE C (4.75 MM MIX)	ALL	0.5	1.0
TYPE C (9.5 MM MIX)	ALL	1.25	2.0
TYPE C (12.5 MM MIX)	ALL	1.5	2.0
TYPE B (19 MM MIX)	76-22, 70-22	2.25	4.0
TYPE B (19 MM MIX)	64-22	2.25	6.0
TYPE BCBC (25 MM MIX)	64-22	3.0	6.0
GABC	-	4.0	8.0

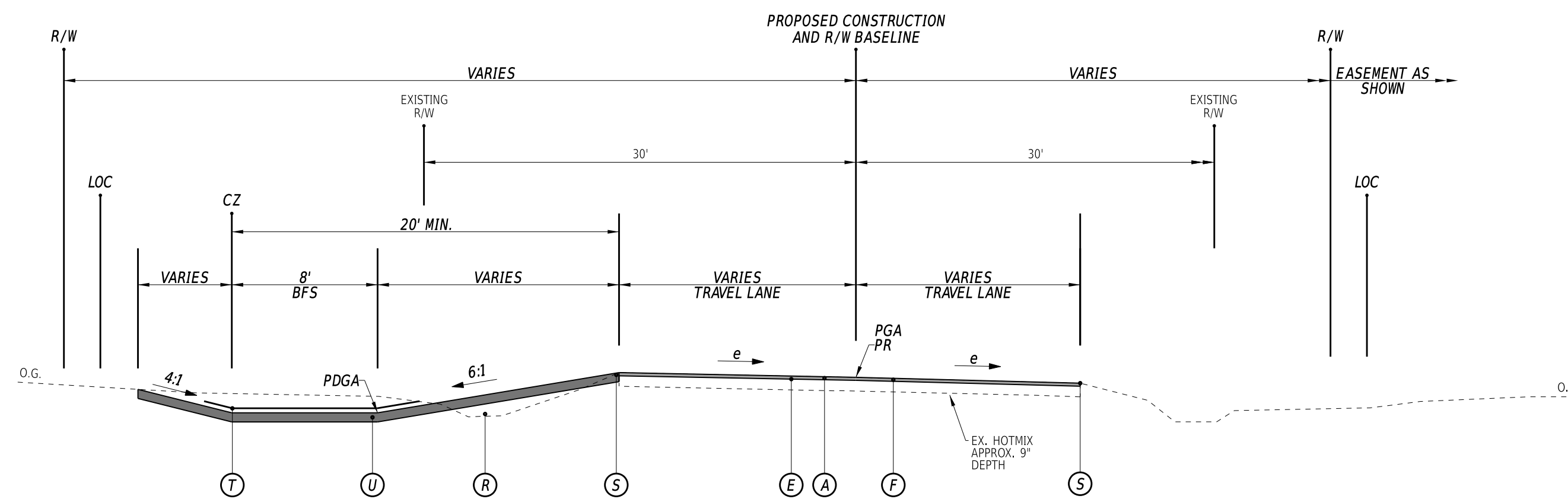
- NOTES:
- BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  - UTILIZE EROSION CONTROL BLANKET MULCH ON THE BOTTOM OF DITCHES AND UP 2 FT ON THE ADJACENT SLOPES UNLESS NOTED OTHERWISE. EROSION CONTROL BLANKET MULCH SHALL BE EXTENDED TO UNDERDRAIN OUTLET LOCATION, WHEN NECESSARY.
  - EROSION CONTROL MULCH SHALL BE UTILIZED IN ALL PERMANENT GRASS SEEDING AREAS OUTSIDE OF EROSION CONTROL BLANKET MULCH FOOTPRINT.



NOTE: NO PROPOSED DITCH LT FROM STATION 403+25 TO 404+00 EXTEND 6:1 SLOPE TO TIE IN

**TYPICAL SECTION - CENTRAL CHURCH ROAD**

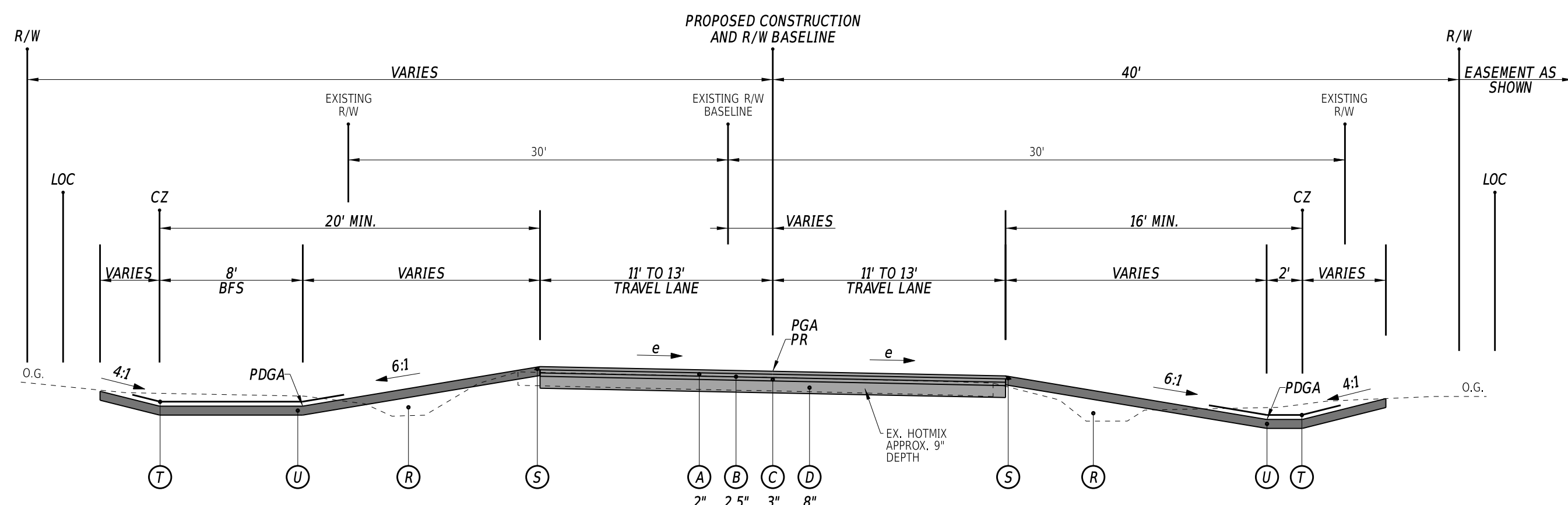
STATION 306+25 TO 307+56  
STATION 402+75 TO 404+00



NOTE: NO PROPOSED DITCH LT FROM STATION 204+21 TO 205+47

**TYPICAL SUPERELEVATED SECTION - KENTON RD**

STATION 204+00 TO 205+47



NOTE: NO PROPOSED DITCH RT FROM STATION 203+91 TO 204+00 EXTEND 6:1 SLOPE TO TIE IN

**TYPICAL SUPERELEVATED SECTION - KENTON RD**

STATION 203+66 TO 204+00

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**TYPICAL SECTIONS**

SECTION  
CEN  
SHEET NO.  
7

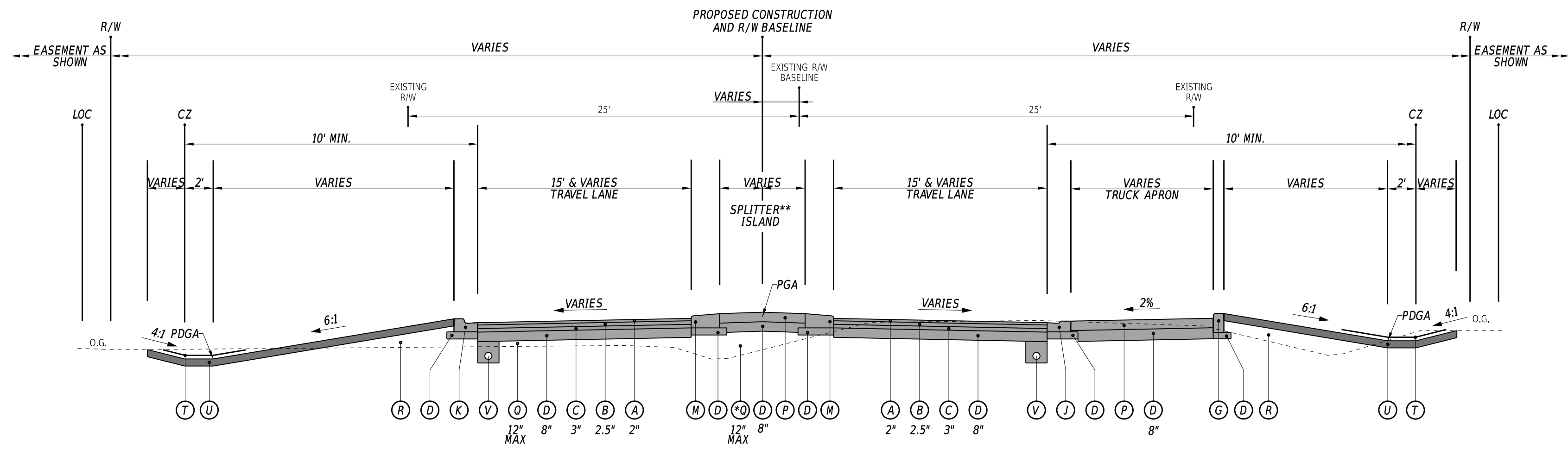
**LEGEND**

- (A) ITEM 401046 - SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)
- (B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22
- (C) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
- (D) ITEM 301001 - GABC
- (E) ITEM 401036 - SUPERPAVE TYPE C, PG 64-22, WEDGE
- (F) ITEM 760010 - PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT
- (G) ITEM 701011 - PCC CURB, TYPE 1-4
- (H) ITEM 701013 - PCC CURB, TYPE 1-8
- (I) ITEM 701014 - PCC CURB, TYPE 2
- (J) ITEM 701020 - 1.PCC CURB AND GUTTER, TYPE 3-2
- (K) ITEM 701023 - 1.PCC CURB AND GUTTER, TYPE 3-4
- (L) ITEM 701027 - PCC CURB, TYPE 1-2 ROUNDABOUT
- (M) ITEM 701025 - PCC CURB, TYPE 2 ROUNDABOUT
- (N) ITEM 705001 - PCC SIDEWALK, 4"
- (O) ITEM 705005 - PCC SIDEWALK, 8"
- (P) ITEM 705521 - PATTERNED PCC SIDEWALK, 8"
- (Q) ITEM 209001 - BORROW, TYPE A
- (R) ITEM 209006 - BORROW, TYPE F
- (S) SAFETY EDGE
- (T) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (U) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908026 - EROSION CONTROL MULCH
- (V) ITEM 709001 - PERFORATED PIPE UNDERDRAINS, 6"

PR - POINT OF ROTATION    PGA - PROFILE GRADE APPLICATION  
PDGA - PROFILE DITCH GRADE APPLICATION

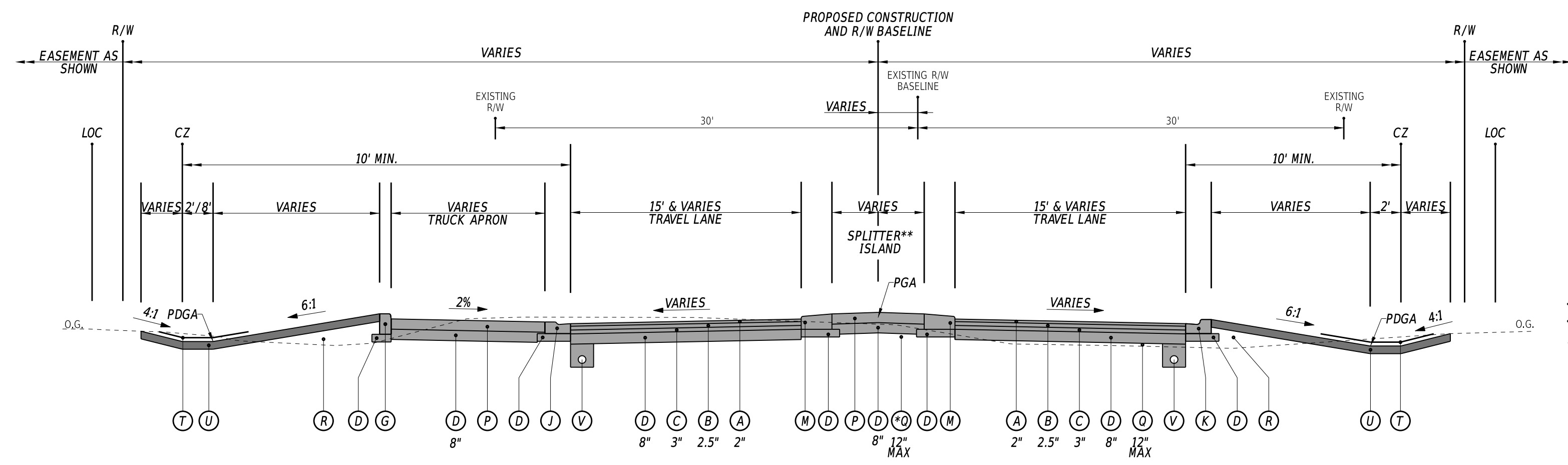
MATERIAL TYPE	BINDER GRADE	LIFT THICKNESS (IN)	
		MINIMUM	MAXIMUM
TYPE C (4.75 MM MIX)	ALL	0.5	1.0
TYPE C (9.5 MM MIX)	ALL	1.25	2.0
TYPE C (12.5 MM MIX)	ALL	1.5	2.0
TYPE B (19 MM MIX)	76-22, 70-22	2.25	4.0
TYPE B (19 MM MIX)	64-22	2.25	6.0
TYPE BCBC (25 MM MIX)	64-22	3.0	6.0
GABC	-	4.0	8.0

- NOTES:
- BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  - UTILIZE EROSION CONTROL BLANKET MULCH ON THE BOTTOM OF DITCHES AND UP 2 FT ON THE ADJACENT SLOPES UNLESS NOTED OTHERWISE. EROSION CONTROL BLANKET MULCH SHALL BE EXTENDED TO UNDERDRAIN OUTLET LOCATION, WHEN NECESSARY.
  - EROSION CONTROL MULCH SHALL BE UTILIZED IN ALL PERMANENT GRASS SEEDING AREAS OUTSIDE OF EROSION CONTROL BLANKET MULCH FOOTPRINT.



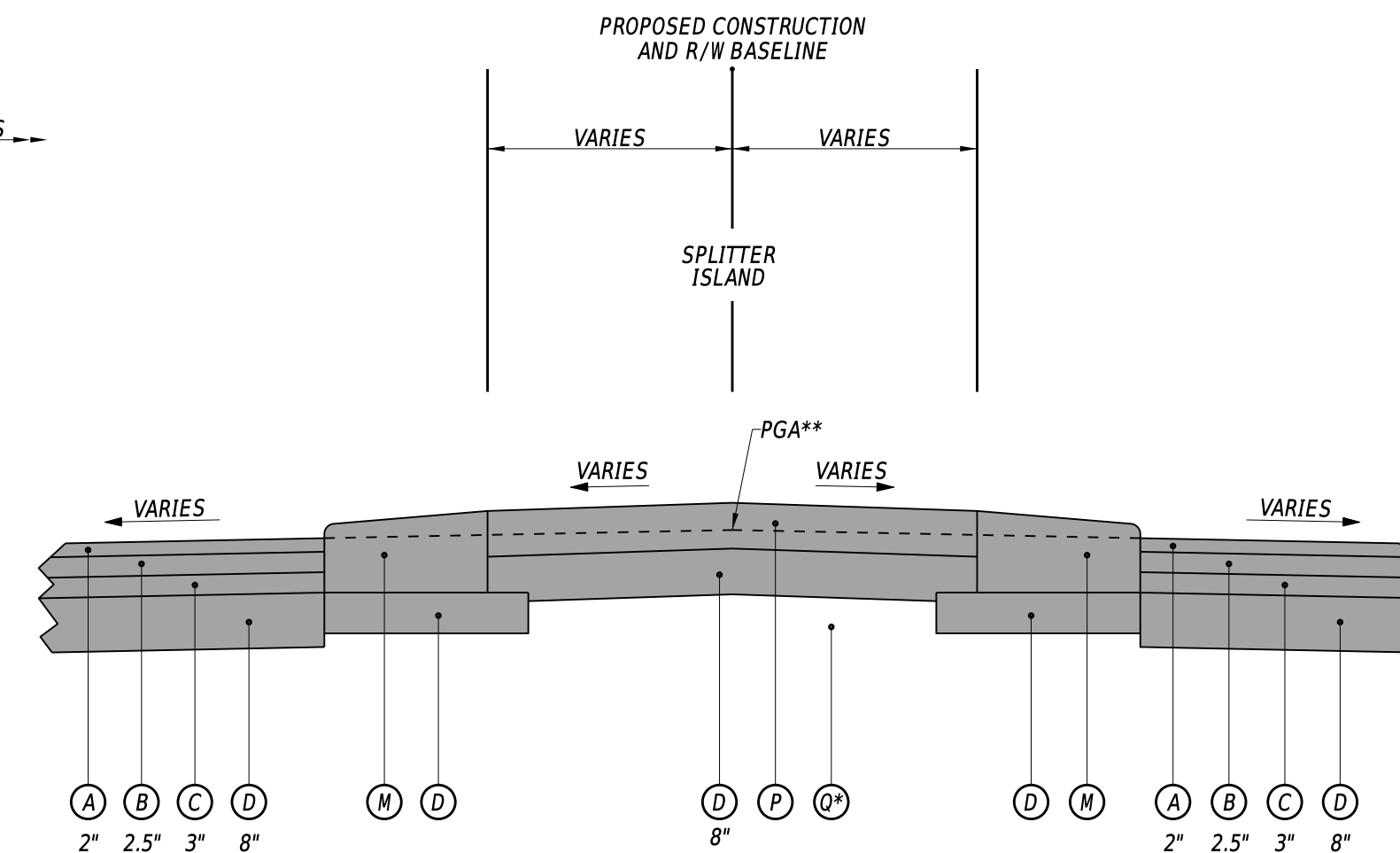
**ROUNDABOUT APPROACH SECTION**  
CENTRAL CHURCH RD STATION 400+67 TO 401+65

\* PLACE BORROW, TYPE A AS REQUIRED.  
\*\* SEE SPLITTER ISLAND PGA DETAIL.



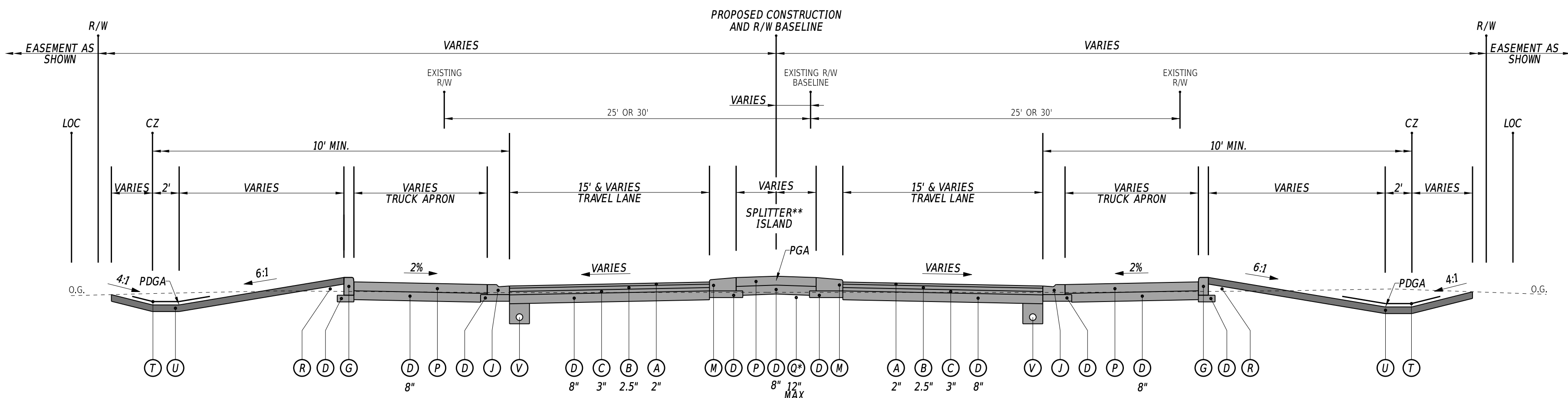
**ROUNDABOUT APPROACH SECTION**  
KENTON RD STATION 200+67 TO 201+15

\* PLACE BORROW, TYPE A AS REQUIRED.  
\*\* SEE SPLITTER ISLAND PGA DETAIL.  
NOTE: PROPOSED BES LT (8' FLAT BOTTOM) FROM STATION 200+67 TO 201+15.



**SPLITTER ISLAND PGA DETAIL**  
NOT TO SCALE

\* PLACE BORROW, TYPE A AS REQUIRED.  
\*\* IN AREAS WHERE THE PGA IS LOCATED WITHIN THE SPLITTER ISLAND, ITS VERTICAL LOCATION SHALL BE THE TOP OF THE ADJACENT PAVEMENT ELEVATION PROJECTED AT THE PROPOSED CROSS SLOPE TO THE CONSTRUCTION BASELINE.



**ROUNDABOUT APPROACH SECTION**  
KENTON ROAD STATION 109+93 TO 110+92  
CENTRAL CHURCH ROAD STATION 308+91 TO 309+65

\* PLACE BORROW, TYPE A AS REQUIRED.  
\*\* SEE SPLITTER ISLAND PGA DETAIL.

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

**TYPICAL SECTIONS**

SECTION  
CEN  
SHEET NO.  
8

**LEGEND**

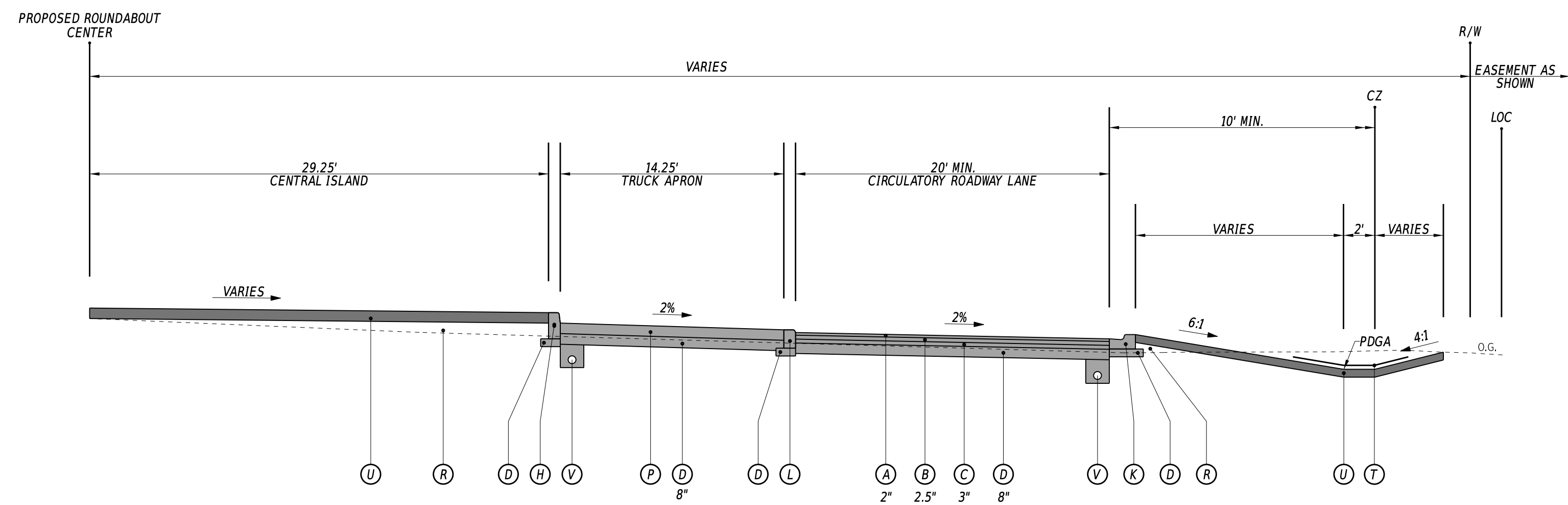
- (A) ITEM 401046 - SUPERPAVE TYPE C, PG 76-22 (NON-CARBONATE STONE)
- (B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22
- (C) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
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- (S) SAFETY EDGE
- (T) ITEM 908020 - EROSION CONTROL BLANKET MULCH
- (U) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908026 - EROSION CONTROL MULCH
- (V) ITEM 709001 - PERFORATED PIPE UNDERDRAINS, 6"

PR - POINT OF ROTATION    PGA - PROFILE GRADE APPLICATION  
 PDGA - PROFILE DITCH GRADE APPLICATION

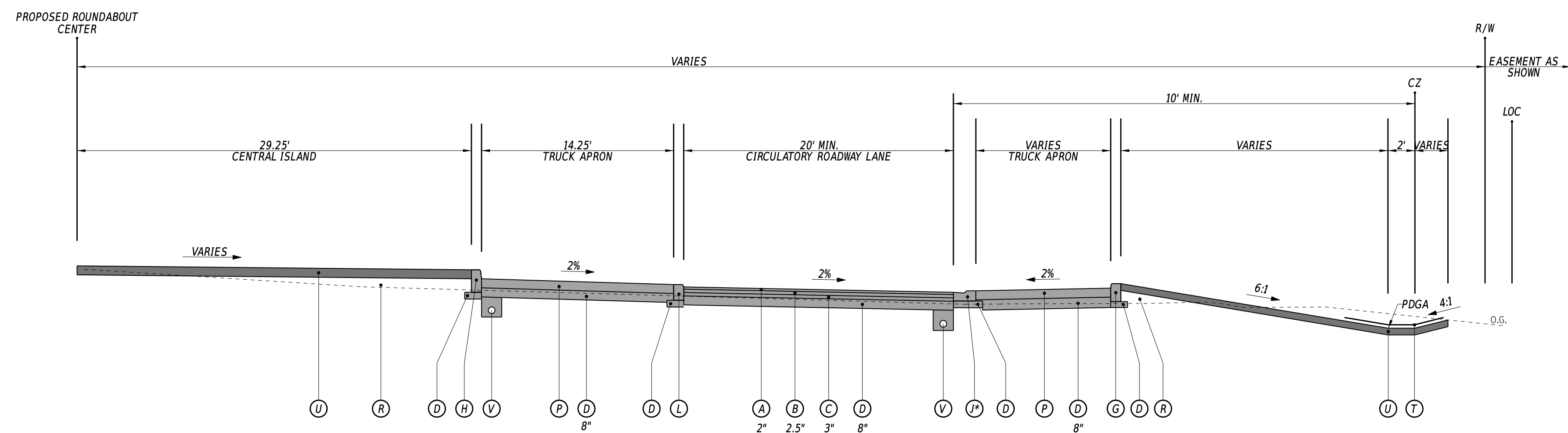
MATERIAL TYPE	BINDER GRADE	LIFT THICKNESS (IN)	
		MINIMUM	MAXIMUM
TYPE C (4.75 MM MIX)	ALL	0.5	1.0
TYPE C (9.5 MM MIX)	ALL	1.25	2.0
TYPE C (12.5 MM MIX)	ALL	1.5	2.0
TYPE B (19 MM MIX)	76-22, 70-22	2.25	4.0
TYPE B (19 MM MIX)	64-22	2.25	6.0
TYPE BCBC (25 MM MIX)	64-22	3.0	6.0
GABC	-	4.0	8.0

**NOTES:**

1. BORROW, TYPE A SHALL BE PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED 8" IN DEPTH, LOOSE MEASUREMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. UTILIZE EROSION CONTROL BLANKET MULCH ON THE BOTTOM OF DITCHES AND UP 2 FT ON THE ADJACENT SLOPES UNLESS NOTED OTHERWISE. EROSION CONTROL BLANKET MULCH SHALL BE EXTENDED TO UNDERDRAIN OUTLET LOCATION, WHEN NECESSARY.
3. EROSION CONTROL MULCH SHALL BE UTILIZED IN ALL PERMANENT GRASS SEEDING AREAS OUTSIDE OF EROSION CONTROL BLANKET MULCH FOOTPRINT.



**ROUNDABOUT CENTER SECTION**



**ROUNDABOUT CENTER SECTION WITH OUTER TRUCK APRON**

\* SEE CONSTRUCTION DETAILS FOR MODIFIED CURB.

ADDENDA / REVISIONS

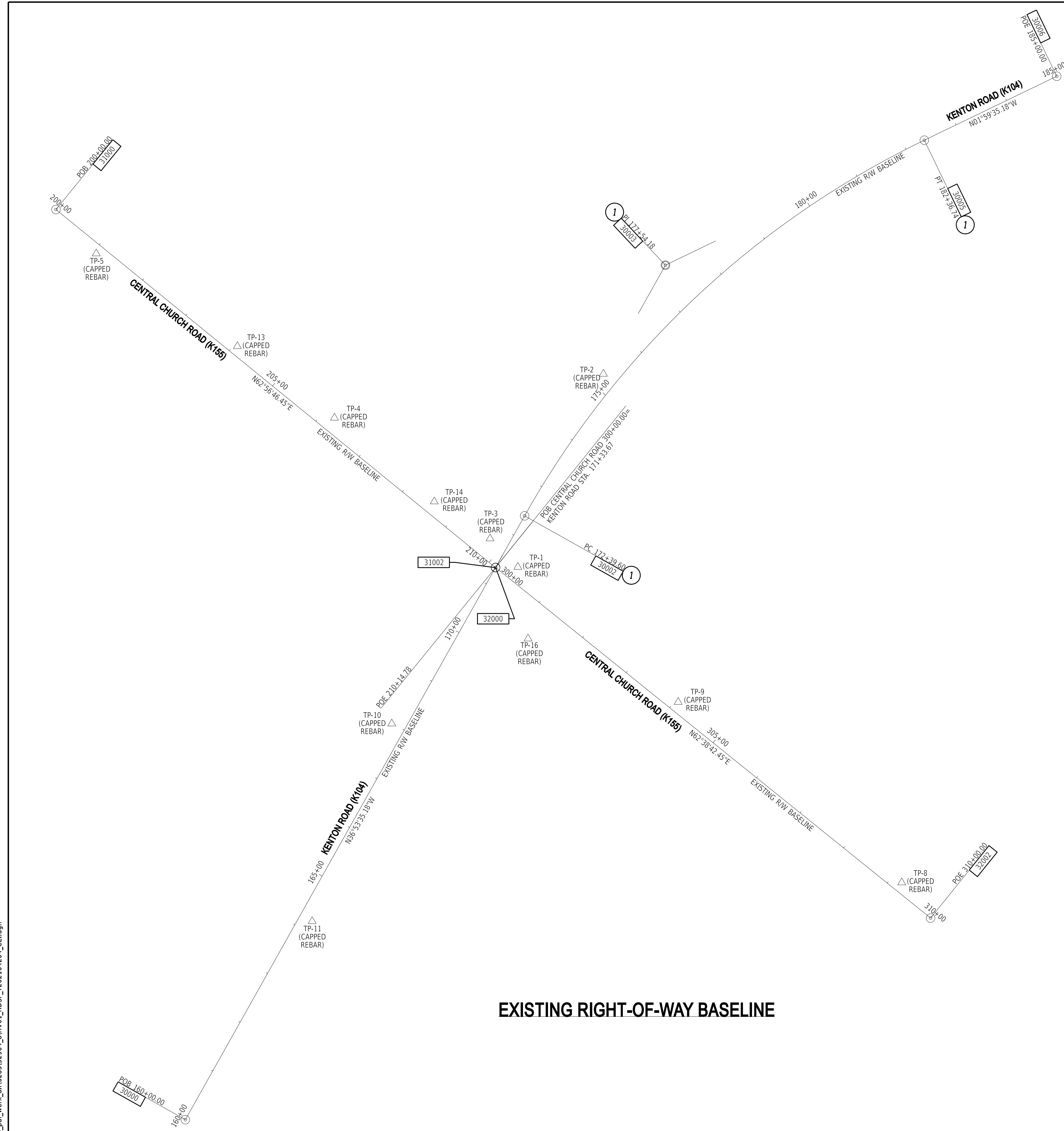
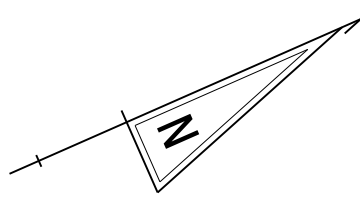
NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**TYPICAL SECTIONS**

SECTION
CEN
SHEET NO.
9



CIRCULAR CURVE (1)			
	STATION	NORTHING	EASTING
PC (30002)	172+39.60	434294.9122	605508.9233
HPI (30003)	177+54.18	434706.4519	605200.0080
CC (30004)	182+36.74	435277.6558	606818.1429
PT (30005)	182+36.74	435220.7214	605182.1113
RADIUS:	1637.02		
DELTA:	34°54'00.00"	RIGHT	
DEGREE OF CURVE(ARC):	03°30'00.00"		
LENGTH:	997.14		
TANGENT:	514.58		
CHORD:	981.80		
MIDDLE ORDINATE:	75.34		
EXTERNAL:	78.97		
TANGENT DIRECTION:	N36°53'35.18"W		
RADIAL DIRECTION:	N53°06'24.82"E		
CHORD DIRECTION:	N19°26'35.18"W		
RADIAL DIRECTION:	N88°00'24.82"E		
TANGENT DIRECTION:	N01°59'35.18"W		

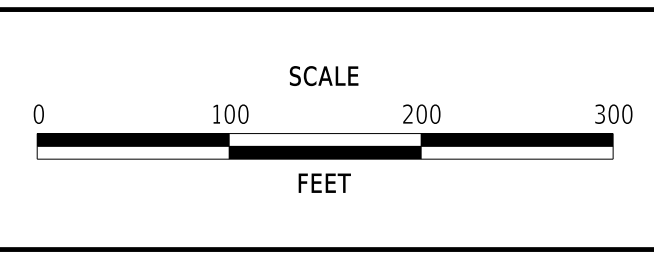
CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
30000	160+00.00	0.00	433303.5336	606253.0849
30001	165+00.00	0.00	433703.4120	605952.9229
30006	185+00.00	0.00	435483.8195	605172.9554
31000	200+00.00	0.00	433748.3355	604669.0080
31001	205+00.00	0.00	433975.7487	605114.2980
31002	210+14.78	0.00	434209.8832	605572.7489
32000	300+00.00	0.00	434210.1952	605572.5147
32001	305+00.00	0.00	434439.9454	606016.6035
32002	310+00.00	0.00	434669.6956	606460.6923

HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP-1	171+53.81	34.37	434246.9346	605587.9117	46.01
TP-2	175+26.87	-27.02	434526.3740	605333.3476	46.30
TP-3	209+74.36	-34.18	434221.9388	605521.2113	49.59
TP-4	206+22.00	-25.78	434054.1950	605211.2276	49.37
TP-5	201+05.69	15.60	433782.5158	604770.2242	48.10
TP-8	309+19.91	-17.04	434648.0317	606381.7266	44.61
TP-9	304+05.59	-17.45	434412.0677	605924.7326	47.89
TP-10	167+98.90	-25.09	433927.3979	605753.4253	47.81
TP-11	164+20.62	24.00	433654.3414	606019.7717	47.43
TP-13	204+06.30	-15.30	433946.7579	605023.8875	47.78
TP-14	208+55.13	-22.47	434157.2787	605420.3492	49.91
TP-16	301+25.25	62.81	434211.9574	605712.6185	46.54

**DATUM REFERENCE:**  
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011 / EPOCH 2010.00).  
 VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 BASED ON MODELED GEOID 12A).

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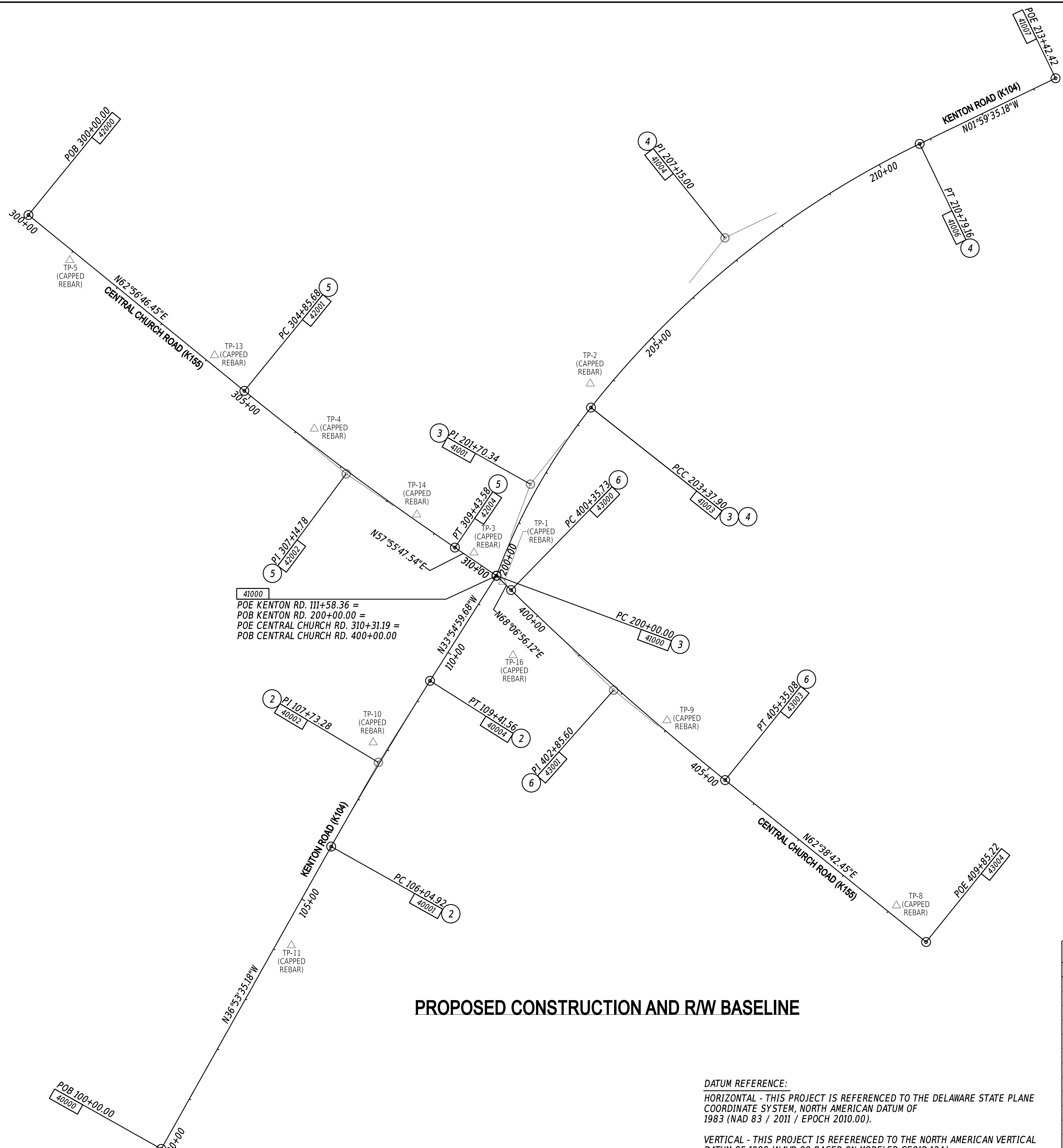
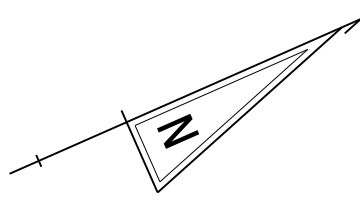
ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204
COUNTY	KENT
BRIDGE NO.	N/A
DESIGNED BY:	A. HALLER
CHECKED BY:	L. HAXTON

<b>HORIZONTAL AND VERTICAL CONTROL</b>		SECTION
		CEN
		SHEET NO.
		10



41000  
 POE KENTON RD. 111+58.36 =  
 POB KENTON RD. 200+00.00 =  
 POE CENTRAL CHURCH RD. 310+31.19 =  
 POB CENTRAL CHURCH RD. 400+00.00

**PROPOSED CONSTRUCTION AND RW BASELINE**

**DATUM REFERENCE:**  
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011 / EPOCH 2010.00).  
 VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 BASED ON MODELED GEOID 12A).

CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
40000	100+00.00	0.00	433303.5336	606253.0849
41007	213+42.42	0.00	435483.8195	605172.9554
42000	300+00.00	0.00	433748.3355	604669.0080
43004	409+85.22	0.00	434669.6956	606460.6923

CIRCULAR CURVE ②			
	STATION	NORTHING	EASTING
PC	(40001)	106+04.92	433787.3264
HPI	(40002)	107+73.28	433921.9707
CC	(40003)	109+41.56	434061.6814
PT	(40004)	109+41.56	434061.6814
RADIUS:		6480.00	
DELTA:		02°58'35.50" Right	
DEGREE OF CURVE(ARC):		00°53'03.10"	
LENGTH:		336.64	
TANGENT:		168.36	
CHORD:		336.60	
MIDDLE ORDINATE:		2.19	
EXTERNAL:		2.19	
TANGENT DIRECTION:		N36°53'35.18"W	
RADIAL DIRECTION:		N53°06'24.82"E	
CHORD DIRECTION:		N35°24'17.43"W	
RADIAL DIRECTION:		N56°05'00.32"E	
TANGENT DIRECTION:		N33°54'59.68"W	

CIRCULAR CURVE ④			
	STATION	NORTHING	EASTING
PCC	(41003)	203+37.90	434510.7060
HPI	(41004)	207+15.00	434843.8548
CC	(41005)	210+79.16	435220.7214
PT	(41006)	210+79.16	435220.7214
RADIUS:		1637.02	
DELTA:		25°56'38.63" Right	
DEGREE OF CURVE(ARC):		03°30'00.00"	
LENGTH:		741.26	
TANGENT:		377.09	
CHORD:		734.94	
MIDDLE ORDINATE:		41.78	
EXTERNAL:		42.87	
TANGENT DIRECTION:		N27°56'13.81"W	
RADIAL DIRECTION:		N62°03'46.19"E	
CHORD DIRECTION:		N14°57'54.50"W	
RADIAL DIRECTION:		N88°00'24.82"E	
TANGENT DIRECTION:		N01°59'35.18"W	

CIRCULAR CURVE ③			
	STATION	NORTHING	EASTING
PC	(41000)	200+00.00	434241.5939
HPI	(41001)	201+70.34	434360.2153
CC	(41002)	203+37.90	435016.6893
PCC	(41003)	203+37.90	434510.7060
RADIUS:		1080.00	
DELTA:		17°55'34.24" Right	
DEGREE OF CURVE(ARC):		05°18'18.59"	
LENGTH:		337.90	
TANGENT:		170.34	
CHORD:		336.52	
MIDDLE ORDINATE:		13.19	
EXTERNAL:		13.35	
TANGENT DIRECTION:		N45°51'48.05"W	
RADIAL DIRECTION:		N44°08'11.95"E	
CHORD DIRECTION:		N36°54'00.93"W	
RADIAL DIRECTION:		N62°03'46.19"E	
TANGENT DIRECTION:		N27°56'13.81"W	

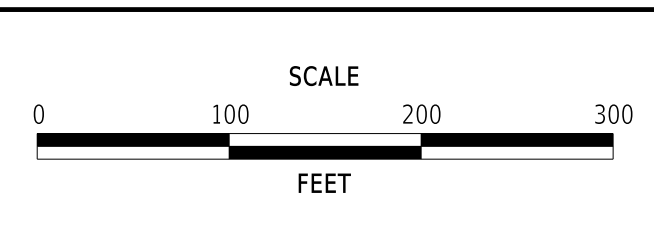
CIRCULAR CURVE ⑤			
	STATION	NORTHING	EASTING
PC	(42001)	304+85.68	433969.2368
HPI	(42002)	307+14.78	434073.4353
CC	(42003)	309+43.58	434195.0748
PT	(42004)	309+43.58	434195.0748
RADIUS:		5230.00	
DELTA:		05°00'58.91" Left	
DEGREE OF CURVE(ARC):		01°05'43.88"	
LENGTH:		457.90	
TANGENT:		229.10	
CHORD:		457.75	
MIDDLE ORDINATE:		5.01	
EXTERNAL:		5.02	
TANGENT DIRECTION:		N62°56'46.45"E	
RADIAL DIRECTION:		S27°03'13.55"E	
CHORD DIRECTION:		N60°26'17.00"E	
RADIAL DIRECTION:		S32°04'12.46"E	
TANGENT DIRECTION:		N57°55'47.54"E	

HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP-1	171+53.81	34.37	434246.9346	605587.9117	46.01
TP-2	175+26.87	-27.02	434526.3740	605333.3476	46.30
TP-3	209+74.36	-34.18	434221.9388	605521.2113	49.59
TP-4	206+22.00	-25.78	434054.1950	605211.2276	49.37
TP-5	201+05.69	15.60	433782.5158	604770.2242	48.10
TP-8	309+19.91	-17.04	434648.0317	606381.7266	44.61
TP-9	304+05.59	-17.45	434412.0677	605924.7326	47.89
TP-10	167+98.90	-25.09	433927.3979	605753.4253	47.81
TP-11	164+20.62	24.00	433654.3414	606019.7717	47.43
TP-13	204+06.30	-15.30	433946.7579	605023.8875	47.78
TP-14	208+55.13	-22.47	434157.2787	605420.3492	49.91
TP-16	301+25.25	62.81	434211.9574	605712.6185	46.54

CIRCULAR CURVE ⑥			
	STATION	NORTHING	EASTING
PC	(43000)	400+35.73	434254.9122
HPI	(43001)	402+85.60	434348.0453
CC	(43002)	405+35.08	434910.0264
PT	(43003)	405+35.08	434462.8578
RADIUS:		5230.00	
DELTA:		05°28'13.67" Left	
DEGREE OF CURVE(ARC):		01°05'43.88"	
LENGTH:		499.35	
TANGENT:		249.86	
CHORD:		499.16	
MIDDLE ORDINATE:		5.96	
EXTERNAL:		5.97	
TANGENT DIRECTION:		N68°06'56.12"E	
RADIAL DIRECTION:		S21°53'03.88"E	
CHORD DIRECTION:		N65°22'49.29"E	
RADIAL DIRECTION:		S27°21'17.55"E	
TANGENT DIRECTION:		N62°38'42.45"E	

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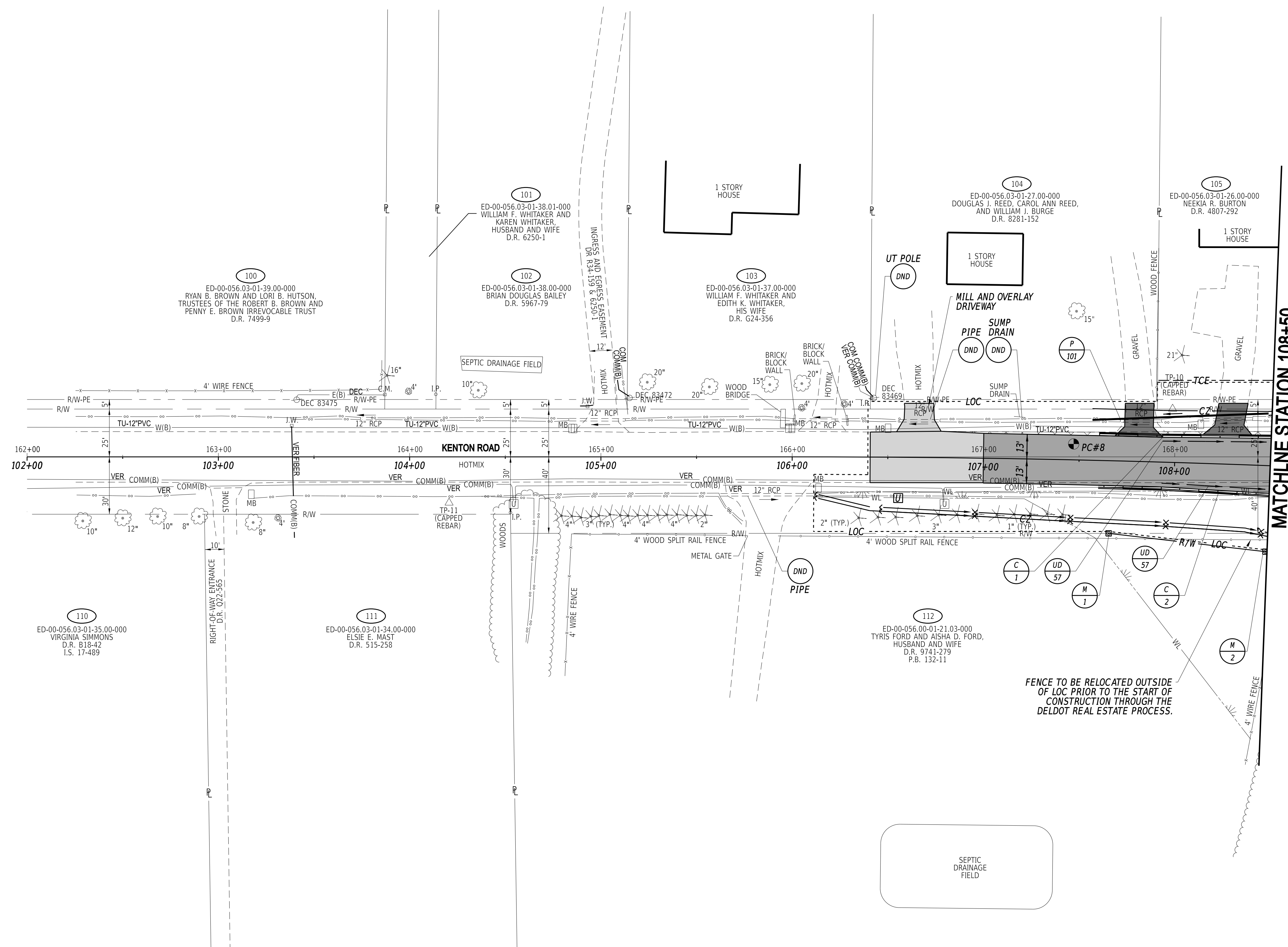
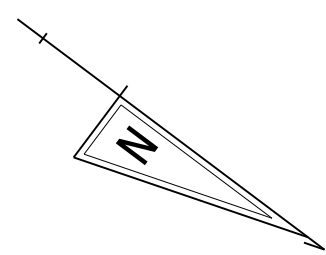
ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

<b>HORIZONTAL AND VERTICAL CONTROL</b>	
SECTION	CEN
SHEET NO.	11



MATCHLINE STATION 108+50

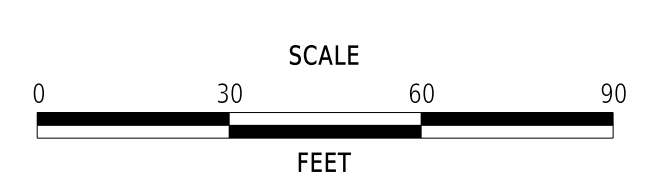
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	1. PCC CURB AND GUTTER, TYPE 3-4	90
2	1. PCC CURB AND GUTTER, TYPE 3-4	90

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CONCRETE	107+66.40	38.00	433939.7097	605825.5652
2	CONCRETE	108+49.18	45.00	434011.0249	605784.0008

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
8	107+46.99	-8.30	8" HMA, 1.25" ST

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
101	12" RCP	V	93	0.0030	47.00	46.72

ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**CONSTRUCTION PLAN**

<b>CP-01</b>
SECTION
CEN
SHEET NO.
12

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ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
1	108+69.25	1.83	8.25" HMA, 1" ST
3	202+61.16	-6.93	9.25" HMA, 1.25" ST

**NOTES:**

- INTERSECTION SIGHT EASEMENT PROVIDED AS FOLLOWS:
  - PP 107: DR 122-467
  - PP 108: DR 122-448
  - PP 113: DR H22-582
  - PP 114: DR H22-582
- EX R/W PE FOR K155 PER CN 1866.
- ALL PAVEMENT WITHIN THE LIMITS OF THE ROUNDABOUT ARE TO BE REMOVED TO THEIR FULL-DEPTH.
- SEE UTILITY SHEETS FOR ALL UTILITY RELOCATIONS.
- SEE MODIFIED UNDERDRAIN DETAIL.

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
204	15" RCP	0.0155	YES
205	18" RCP	0.0030	NO
300	18" RCP	0.0030	NO

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	1.PCC CURB AND GUTTER, TYPE 3-4	144
4	1.PCC CURB AND GUTTER, TYPE 3-2 MODIFIED*	221
5	PCC CURB, TYPE 1-4	210
6	1.PCC CURB AND GUTTER, TYPE 3-4	146
7	1.PCC CURB AND GUTTER, TYPE 3-4	183
8	1.PCC CURB AND GUTTER, TYPE 3-2 MODIFIED*	200
9	PCC CURB, TYPE 1-4	183
10	1.PCC CURB AND GUTTER, TYPE 3-4	111
11	1.PCC CURB AND GUTTER, TYPE 3-4	567
12	1.PCC CURB AND GUTTER, TYPE 3-4	108
13	1.PCC CURB AND GUTTER, TYPE 3-2 MODIFIED*	197
14	PCC CURB, TYPE 1-4	181
15	1.PCC CURB AND GUTTER, TYPE 3-4	235
16	PCC CURB, TYPE 2 ROUNDABOUT	216
17	PCC CURB, TYPE 2 ROUNDABOUT	216
18	PCC CURB, TYPE 2 ROUNDABOUT	116
19	PCC CURB, TYPE 2 ROUNDABOUT	166
20	PCC CURB, TYPE 1-2 ROUNDABOUT	283
21	PCC CURB, TYPE 1-8	189

\* SEE CONSTRUCTION DETAILS.

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INVERT EL.
300	309+55.29	0.05	48" x 48"	48.59	44.21

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
100	12" RCP	V	32	0.0030	47.22	47.13
200	15" RCP	IV	46	0.0041	45.42	45.23
201	15" RCP	IV	43	0.0198	46.68	45.84
202	15" RCP	IV	22	0.0155	44.35	44.01
203	18" RCP	IV	54	0.0030	44.34	44.18
204	18" RCP	IV	56	0.0030	44.18	44.01
205	18" RCP	IV	55	0.0030	44.01	43.85
206	15" RCP	IV	44	0.0177	45.95	45.19
300	18" RCP	IV	78	0.0030	44.50	44.27
301	18" RCP	IV	39	0.0030	44.39	44.27
302	15" RCP	IV	42	0.0030	45.25	44.41
303	18" RCP	IV	57	0.0030	44.14	43.97
304	18" RCP	IV	104	0.0030	44.42	44.11
305	18" RCP	IV	45	0.0030	44.11	43.97
306	18" RCP	IV	29	0.0030	43.97	43.89
310	18" RCP	IV	20	0.0030	44.27	44.21
311	18" RCP	IV	22	0.0030	44.21	44.14

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
200	110+82.19	**	48" x 48"	1	*	44.34
201	400+75.05	**	48" x 48"	1	*	44.18
202	401+33.86	**	48" x 30"	4	*	44.01
300	110+57.13	**	48" x 48"	1	*	44.50
301	309+13.12	25.03	48" x 30"	2	48.05	44.39
302	309+54.40	**	48" x 48"	1	*	44.27
307	309+99.19	**	34" x 24"	1	*	45.25
303	309+54.68	**	48" x 48"	1	*	44.14
304	400+80.40	**	48" x 30"	1	*	44.42
305	200+82.44	**	48" x 30"	1	*	44.11
306	200+76.31	**	48" x 48"	1	*	43.97

\* MATCH FLOWLINE OF PROPOSED CURB OR CURB AND GUTTER.  
\*\* MATCH PROPOSED CURBLINE.

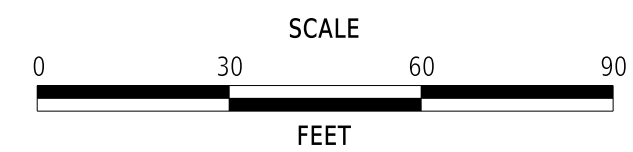
DELDOT SWM FACILITY SCHEDULE		
NO.	TYPE / DESCRIPTION	LOCATION
1143	BIOSWALE	STA. 201+31.70 LT. TO STA. 204+07.40 LT.

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
6	CONCRETE	109+41.56	45.00	434086.7908	605732.2684
7	CONCRETE	110+37.48	45.00	434166.3843	605678.7503
8	CONCRETE	401+07.96	60.00	434226.9343	605697.0766
9	CAPPED REBAR	402+34.38	50.00	434286.7842	605810.3825
10	CAPPED REBAR	402+28.37	-56.00	434381.1503	605761.7286
11	CAPPED REBAR	402+27.43	-64.00	434388.0843	605757.6334
12	CAPPED REBAR	400+72.72	-64.00	434328.0369	605617.1062
13	CONCRETE	400+92.73	-50.00	434322.6357	605640.7412
14	CONCRETE	201+10.36	40.00	434348.0680	605529.4516
15	CONCRETE	203+37.90	40.00	434529.4461	605407.2349
16	CAPPED REBAR	307+63.22	-50.00	434145.2278	605320.1847
17	CONCRETE	307+62.92	-35.00	434132.0959	605327.4406
18	CONCRETE	170+83.11	-30.00	434151.7495	605578.8750
19	CONCRETE	209+58.67	25.00	434162.0974	605534.1479
20	CONCRETE	208+38.64	25.00	434107.5069	605427.2555

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
202	R-4	3.00
203	R-4	3.00
*204	R-4	7.00
205	R-4	3.00
300	R-4	5.00
301	R-4	23.00
*305	R-4	7.00

\* SEE CONSTRUCTION DETAILS.

ADDENDA / REVISIONS



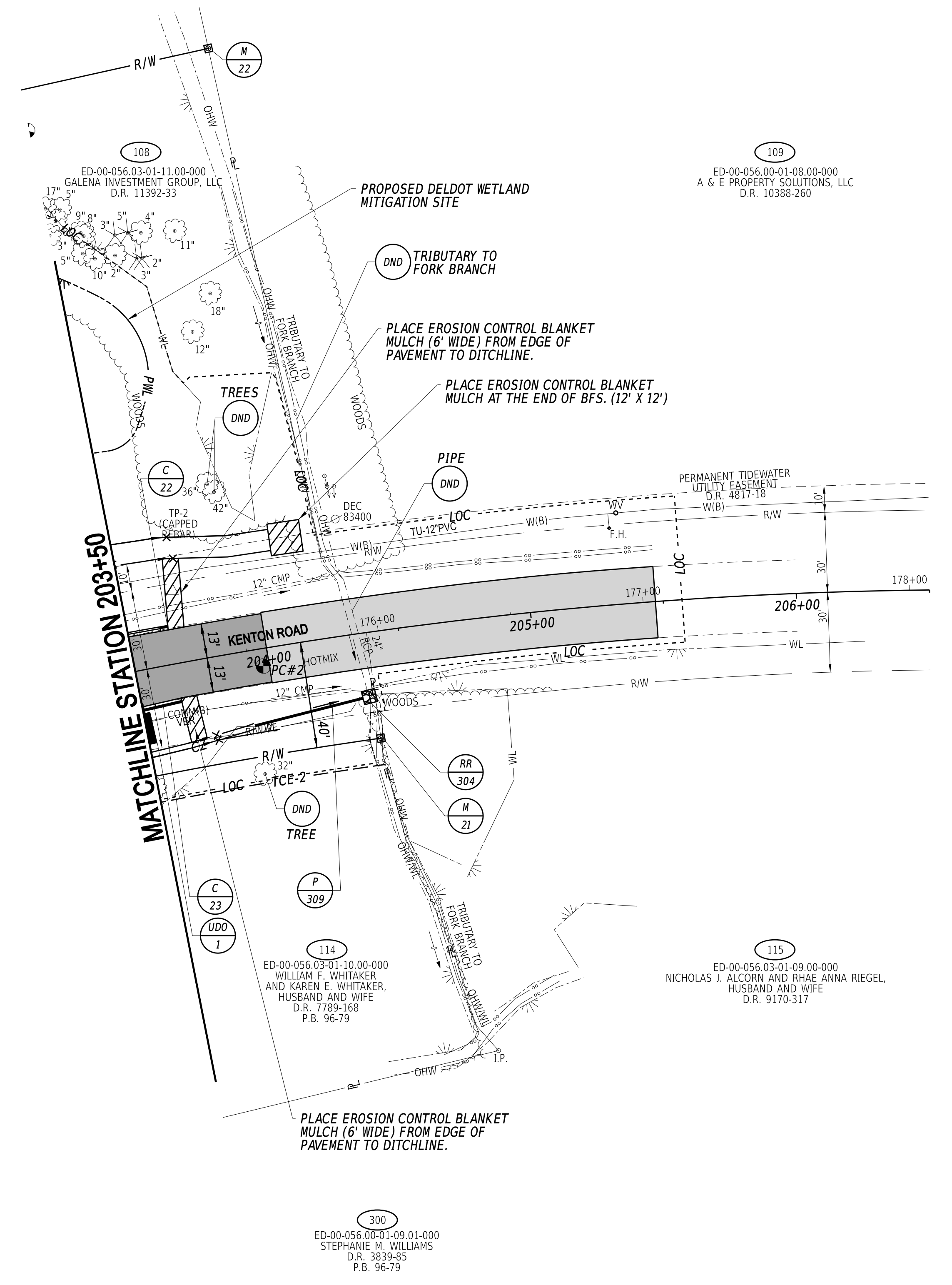
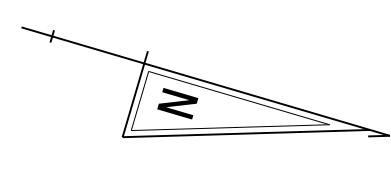
HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

CONSTRUCTION PLAN

CP-02	SECTION
	CEN
	SHEET NO.
	13

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UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
1	15	44.30

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
304	R-4	3.00

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
22	1. PCC CURB AND GUTTER, TYPE 3-4	15
23	1. PCC CURB AND GUTTER, TYPE 3-4	15

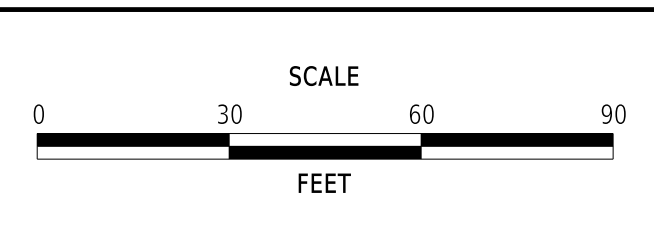
RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
21	CAPPED REBAR	204+37.82	40.00	434616.8998	605364.2238
22	CONCRETE	204+13.22	-225.49	434481.6625	605134.2912

ROADWAY CORE SCHEDULE				
NO.	STATION	OFFSET	DESCRIPTION	
2	203+97.72	6.50	9" HMA, 1.5" ST	

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
309	15" RCP	V	42	0.0105	43.46	43.02

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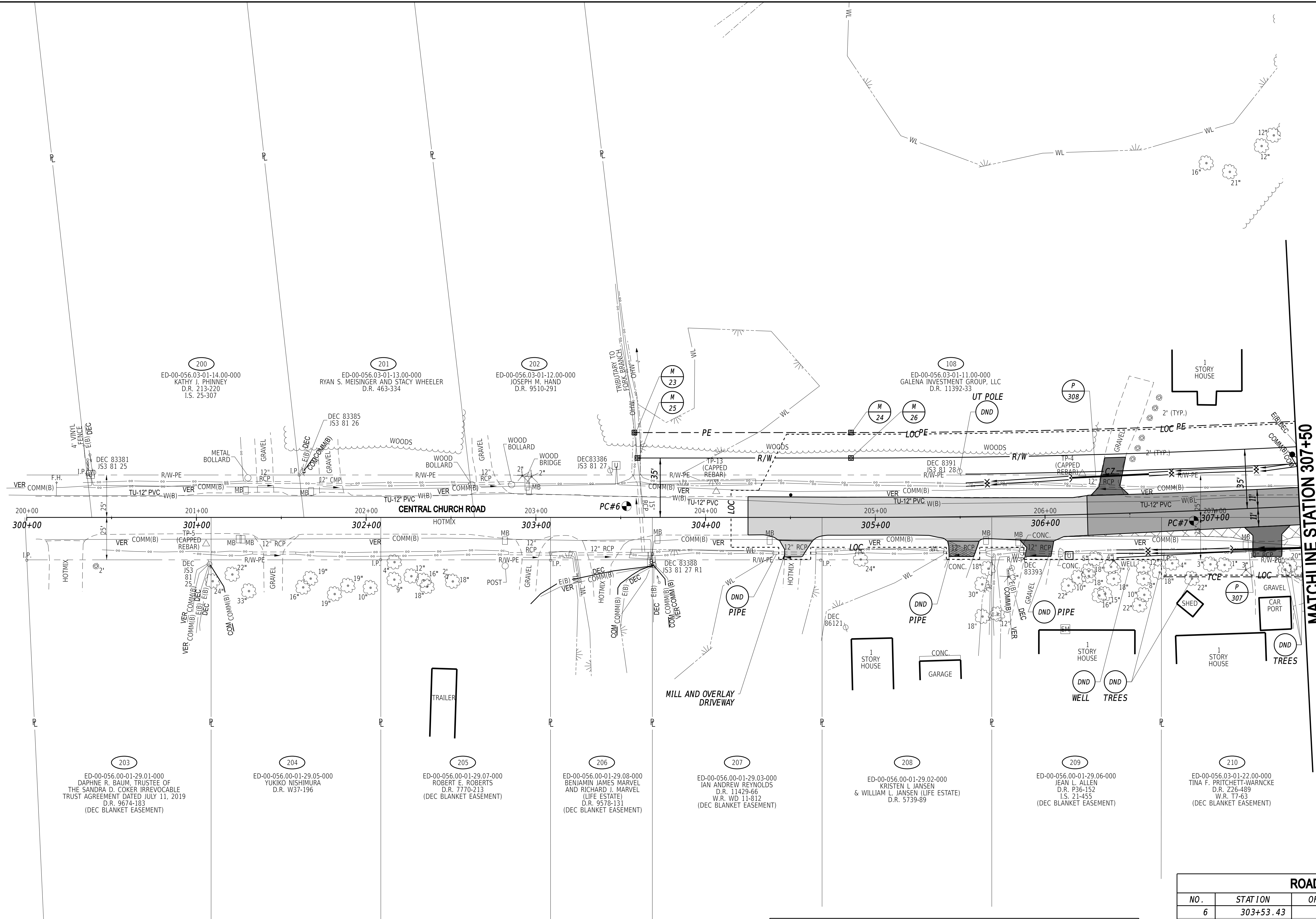
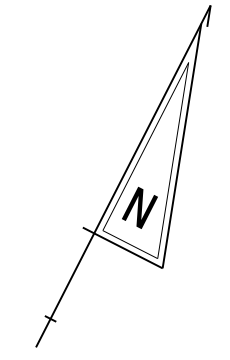
ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A	CONSTRUCTION PLAN	SECTION	CEN
COUNTY	KENT	DESIGNED BY:	A. HALLER		SHEET NO.	14
		CHECKED BY:	L. HAXTON			

**CP-03**



MATCHLINE STATION 307+50

**NOTE:**  
1. EX R/W PE FOR K155 PER CN 1866

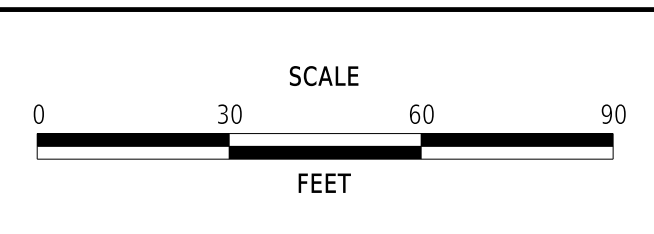
ROADWAY CORE SCHEDULE				
NO.	STATION	OFFSET		DESCRIPTION
6	303+53.43	-6.50	5.5"	HMA
7	306+87.52	5.88	3.5"	HMA, 0.75" ST

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
23	CAPPED REBAR	303+58.07	-50.00	433955.7236	604965.1556
24	CAPPED REBAR	304+85.68	-50.00	434013.7658	605078.8061
25	CONCRETE	303+59.82	-35.00	433943.1606	604973.5360
26	CONCRETE	304+85.68	-35.00	434000.4071	605085.6285

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
307	15" RCP	V	42	0.0066	48.27	48.00
308	15" RCP	V	46	0.0070	47.86	47.54

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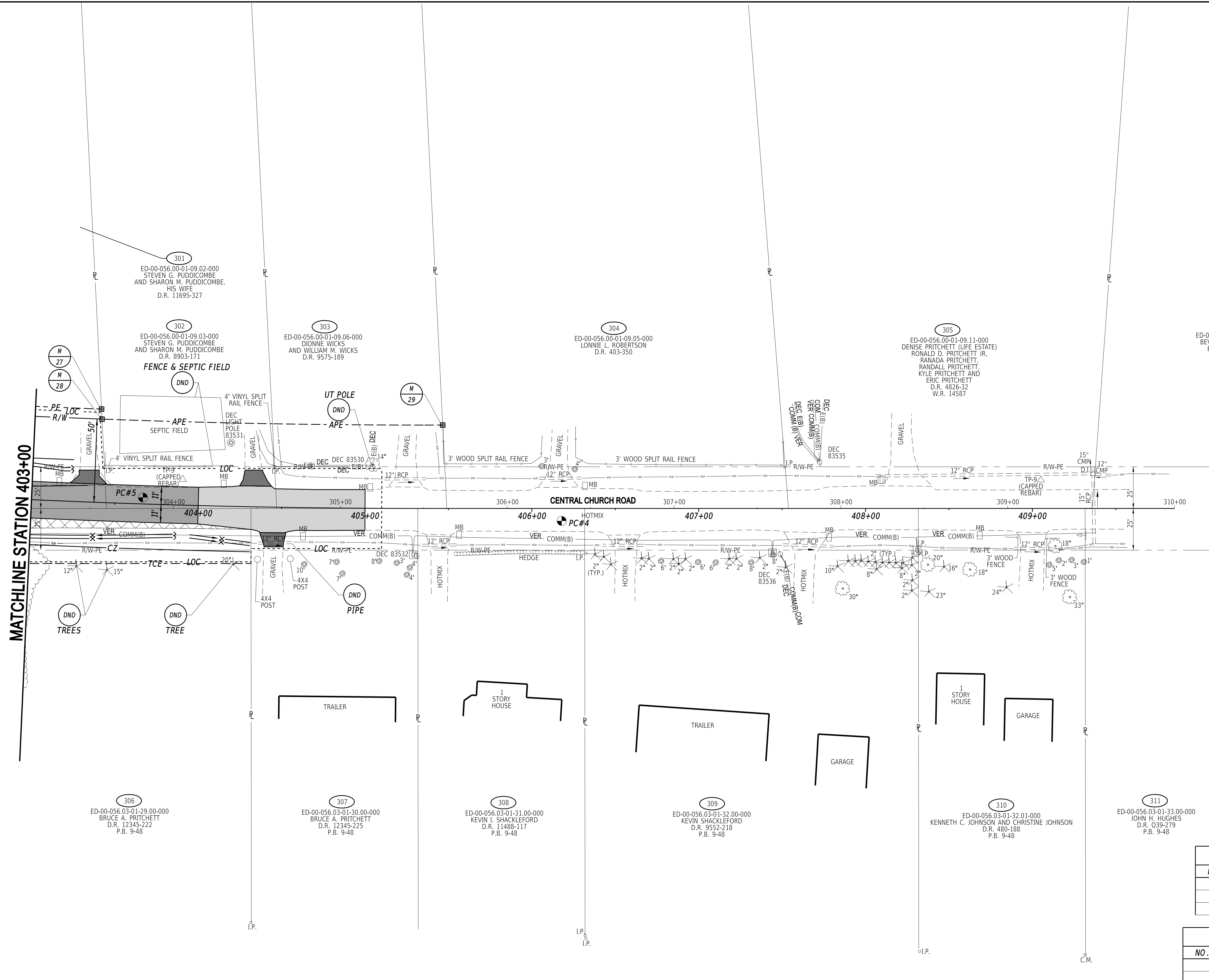
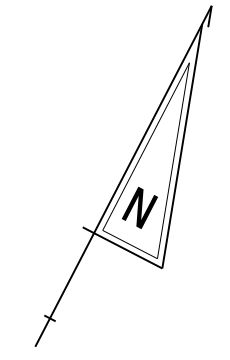
ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

CONSTRUCTION PLAN		SECTION	CP-04
		SHEET NO.	15



MATCHLINE STATION 403+00

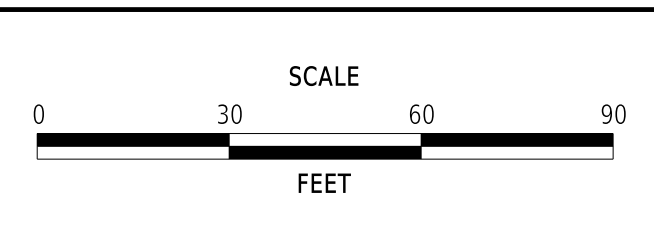
**NOTE:**  
1. EX R/W PE FOR K155 PER CN 1866.

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
27	CAPPED REBAR	403+39.95	-56.00	434427.1139	605862.0940
28	CONCRETE	403+40.48	-50.00	434421.9085	605865.1232
29	CAPPED REBAR	405+46.56	-50.00	434512.5438	606048.1167

ROADWAY CORE SCHEDULE				
NO.	STATION	OFFSET	DESCRIPTION	
4	406+17.85	7.47	3.75" HMA, 0.5" ST	
5	403+66.71	-3.88	6" HMA, 0.5" ST	

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ADDENDA / REVISIONS	

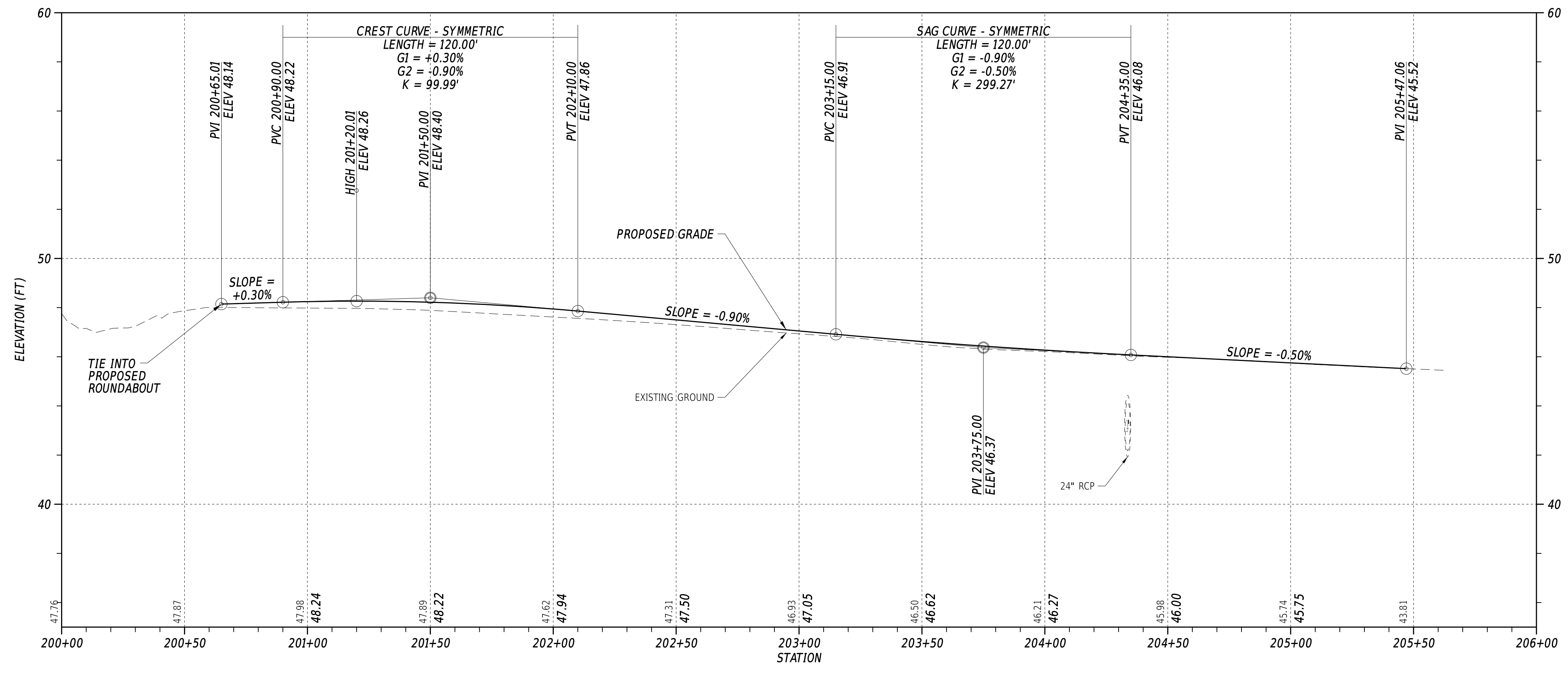


**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

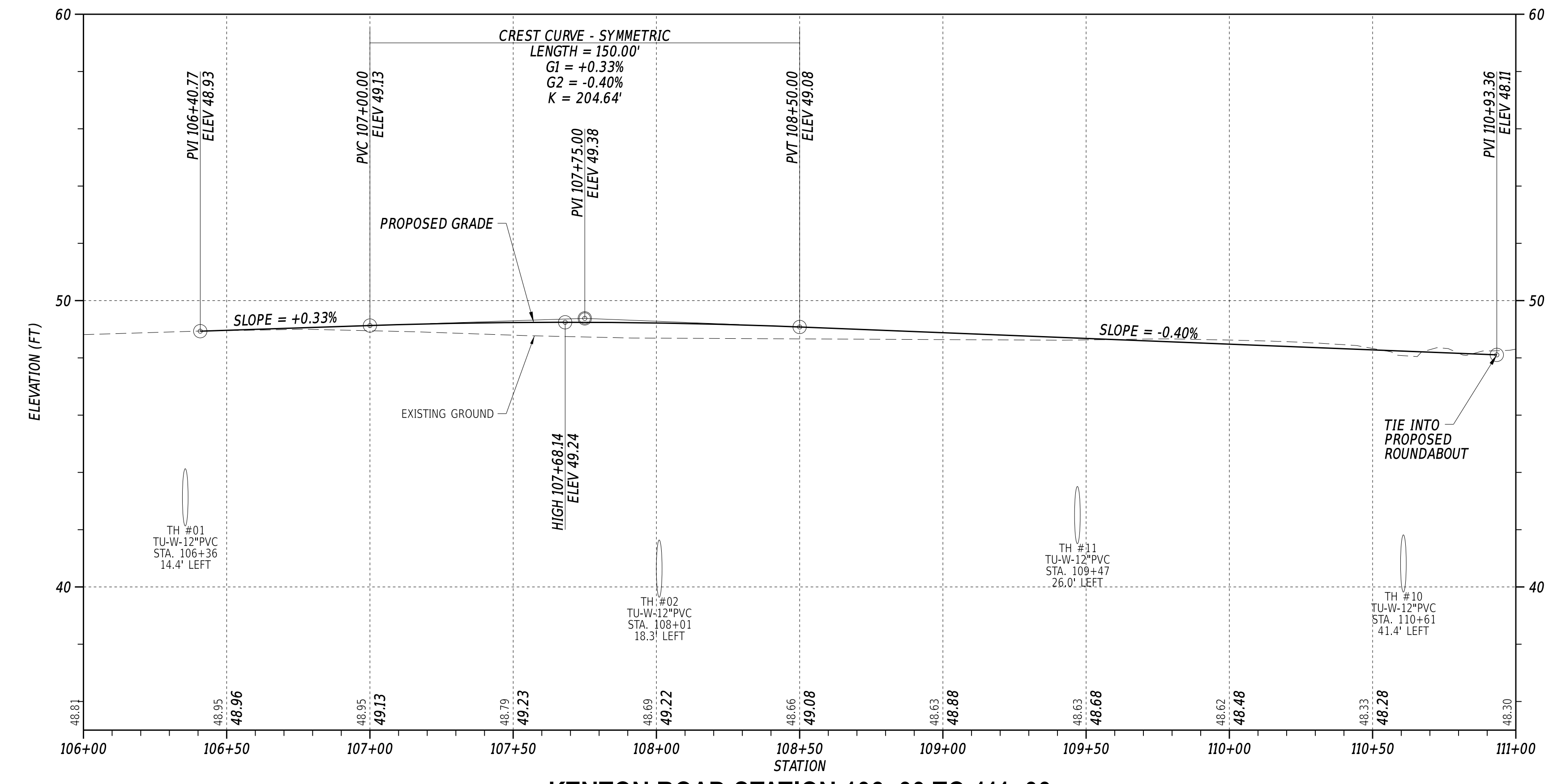
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**CONSTRUCTION PLAN**

<b>CP-05</b>
SECTION
CEN
SHEET NO.
16



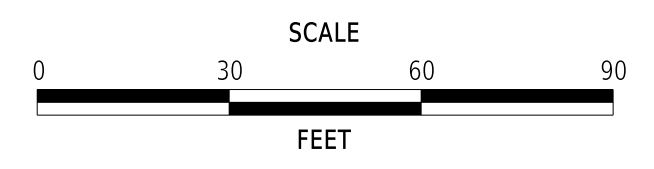
**KENTON ROAD STATION 200+00 TO 206+00**



**KENTON ROAD STATION 106+00 TO 111+00**

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ADDENDA / REVISIONS

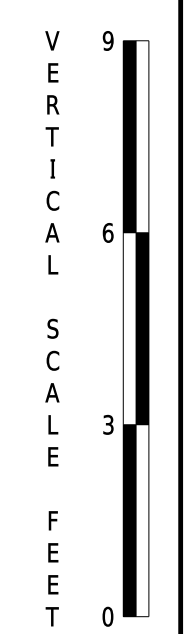


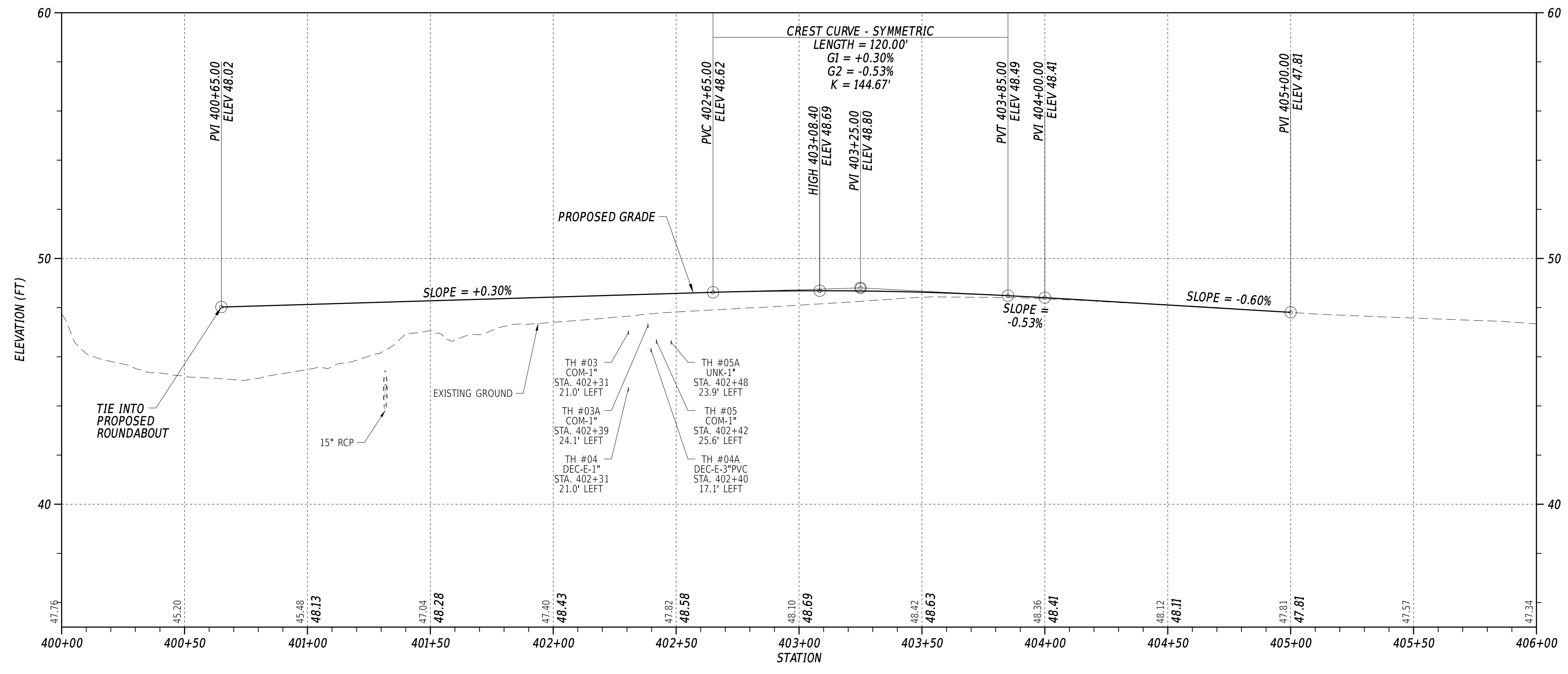
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

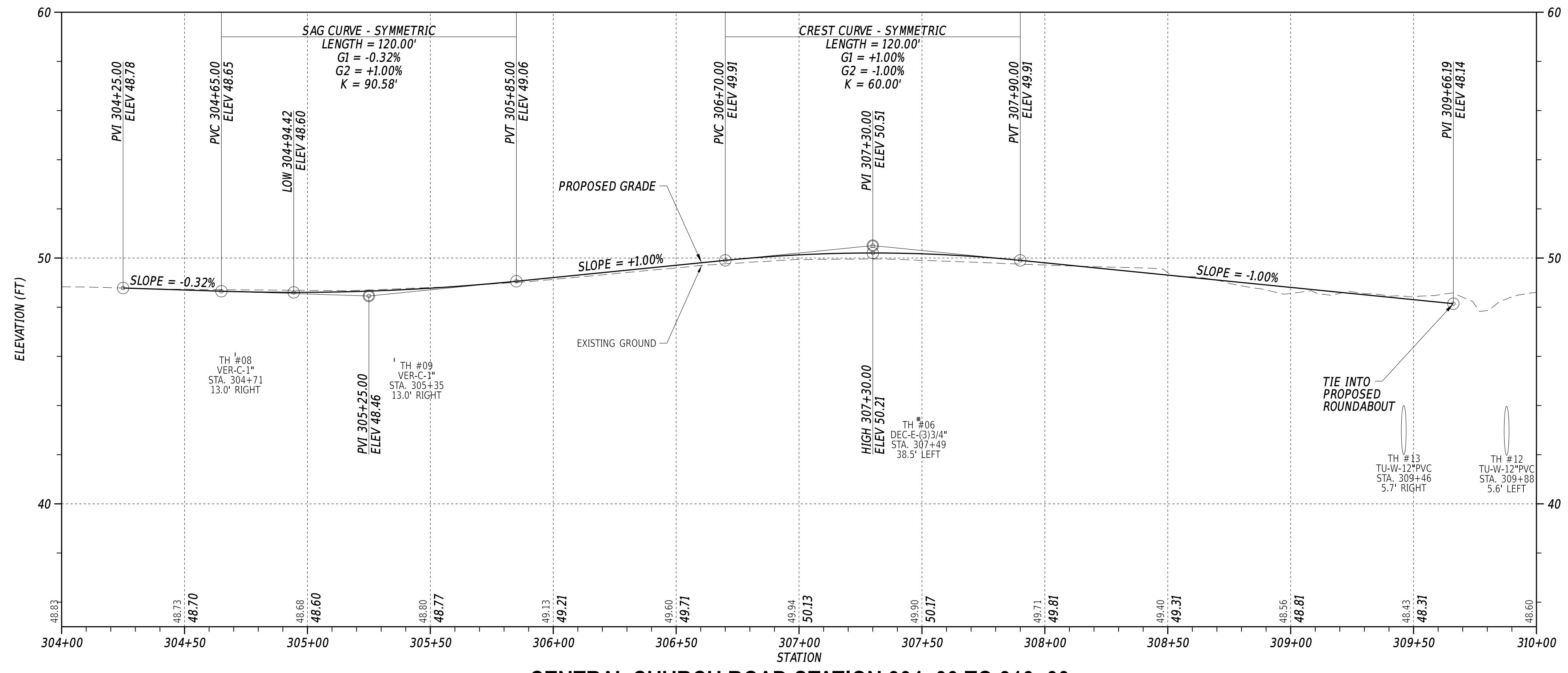
**PROFILES**

SECTION	CEN
SHEET NO.	17





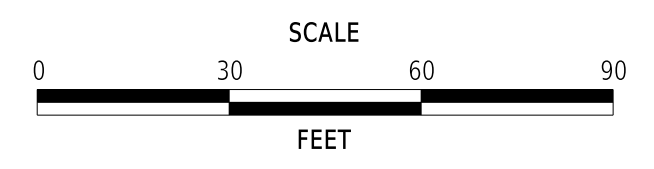
**CENTRAL CHURCH ROAD STATION 400+00 TO 406+00**



**CENTRAL CHURCH ROAD STATION 304+00 TO 310+00**

21-OCT-2025 12:42 \\fcsM-del00p0w21\CS\_pof\_work\_dir\628332904\_21\PF01\_ROSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS

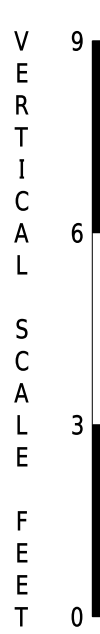


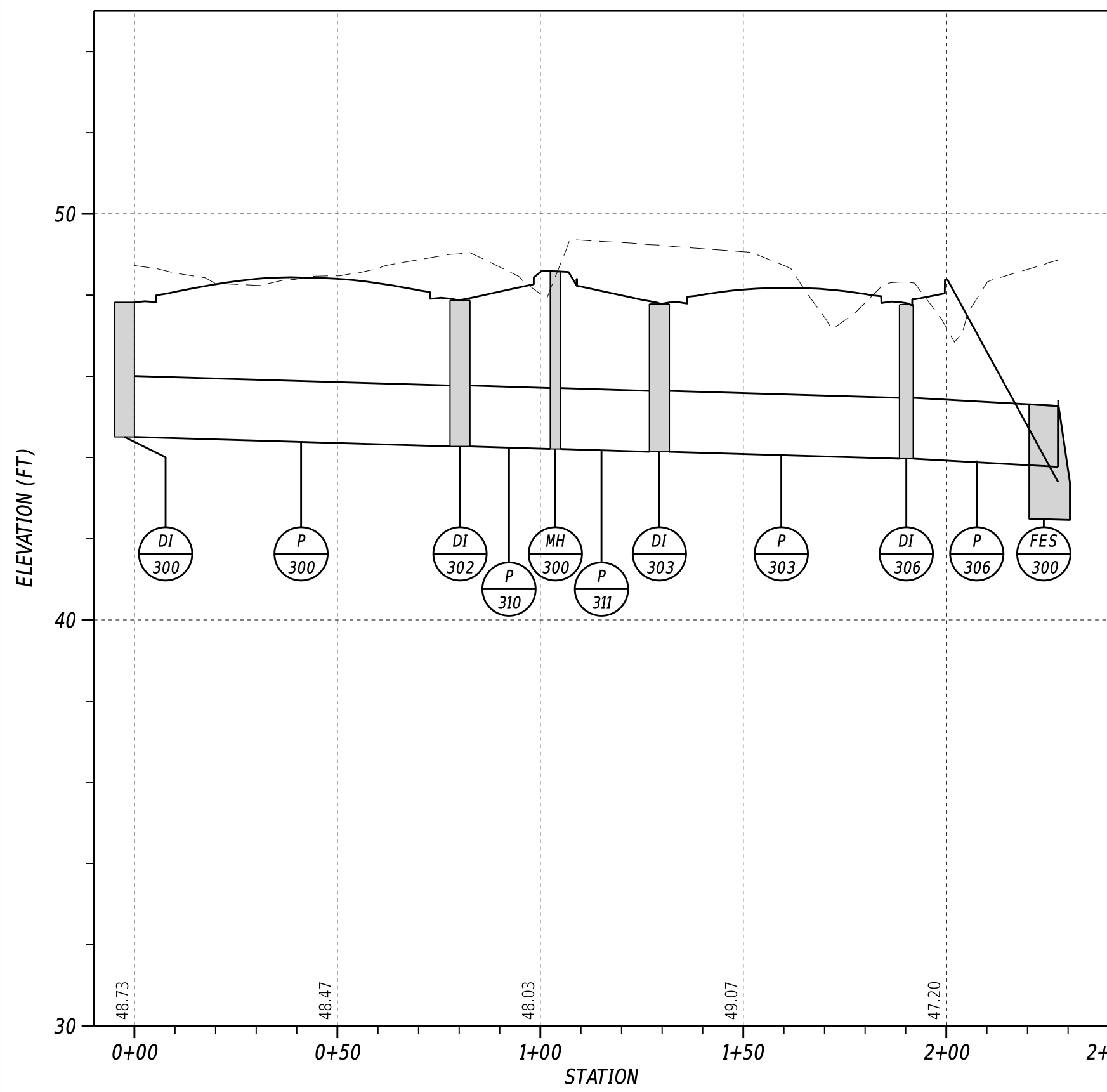
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

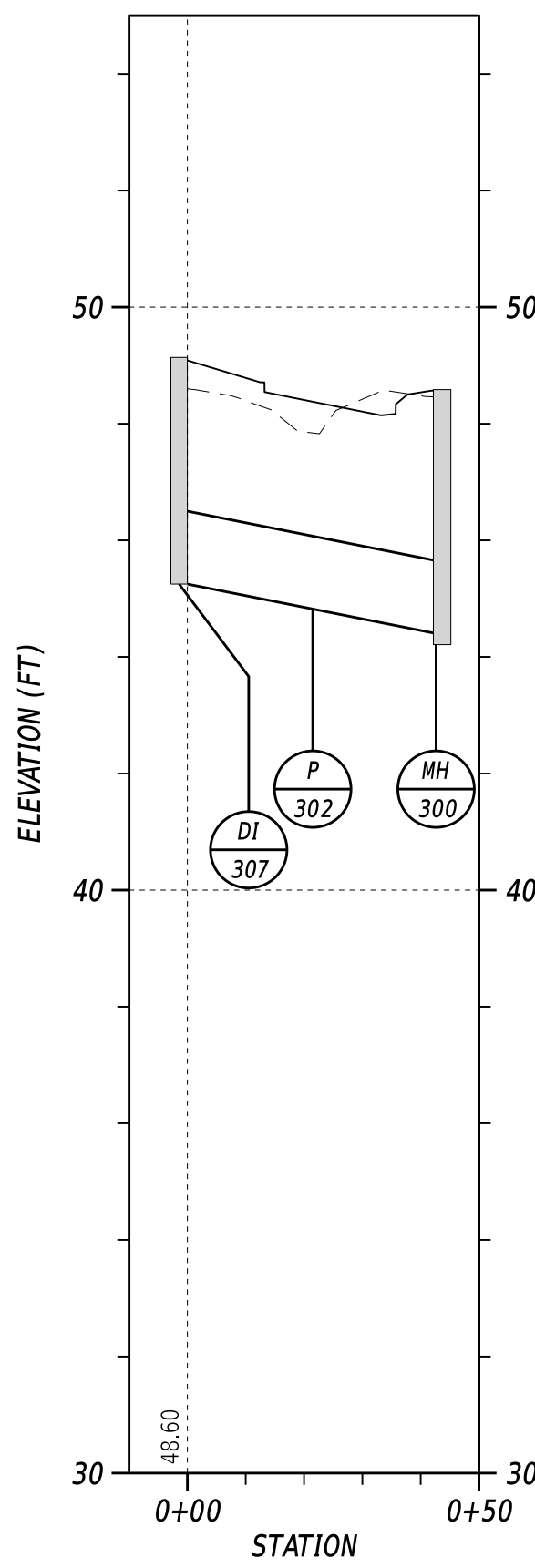
**PROFILES**

SECTION	CEN
SHEET NO.	18

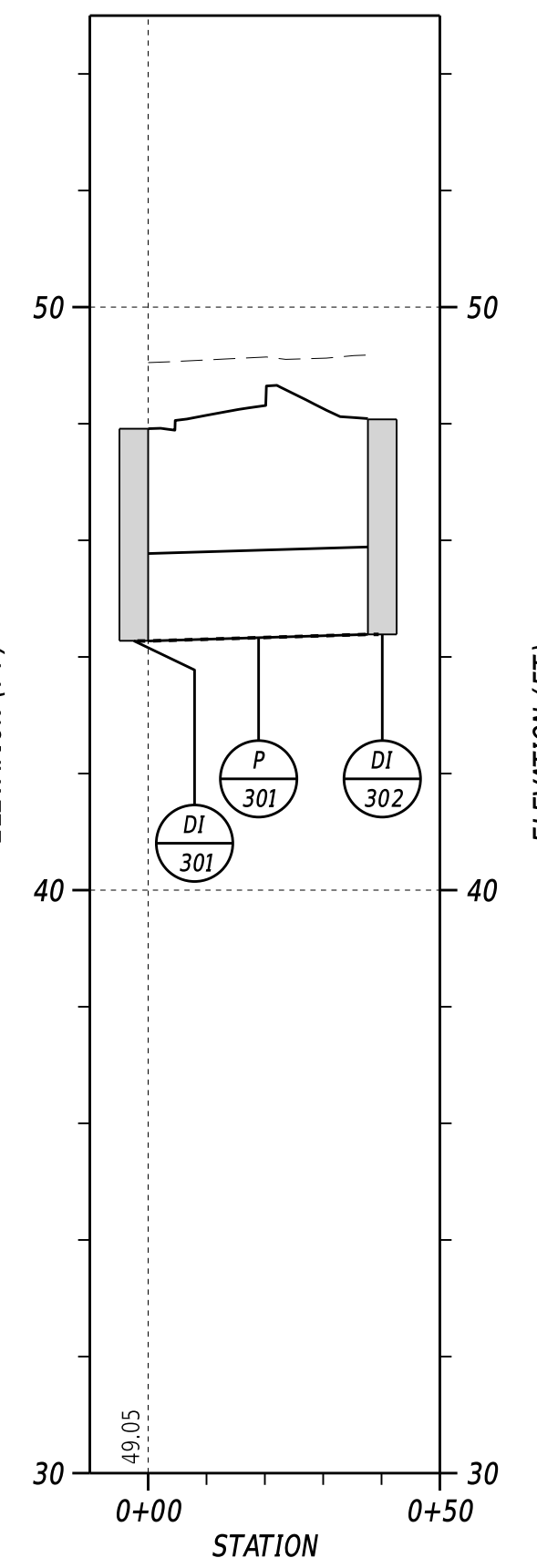




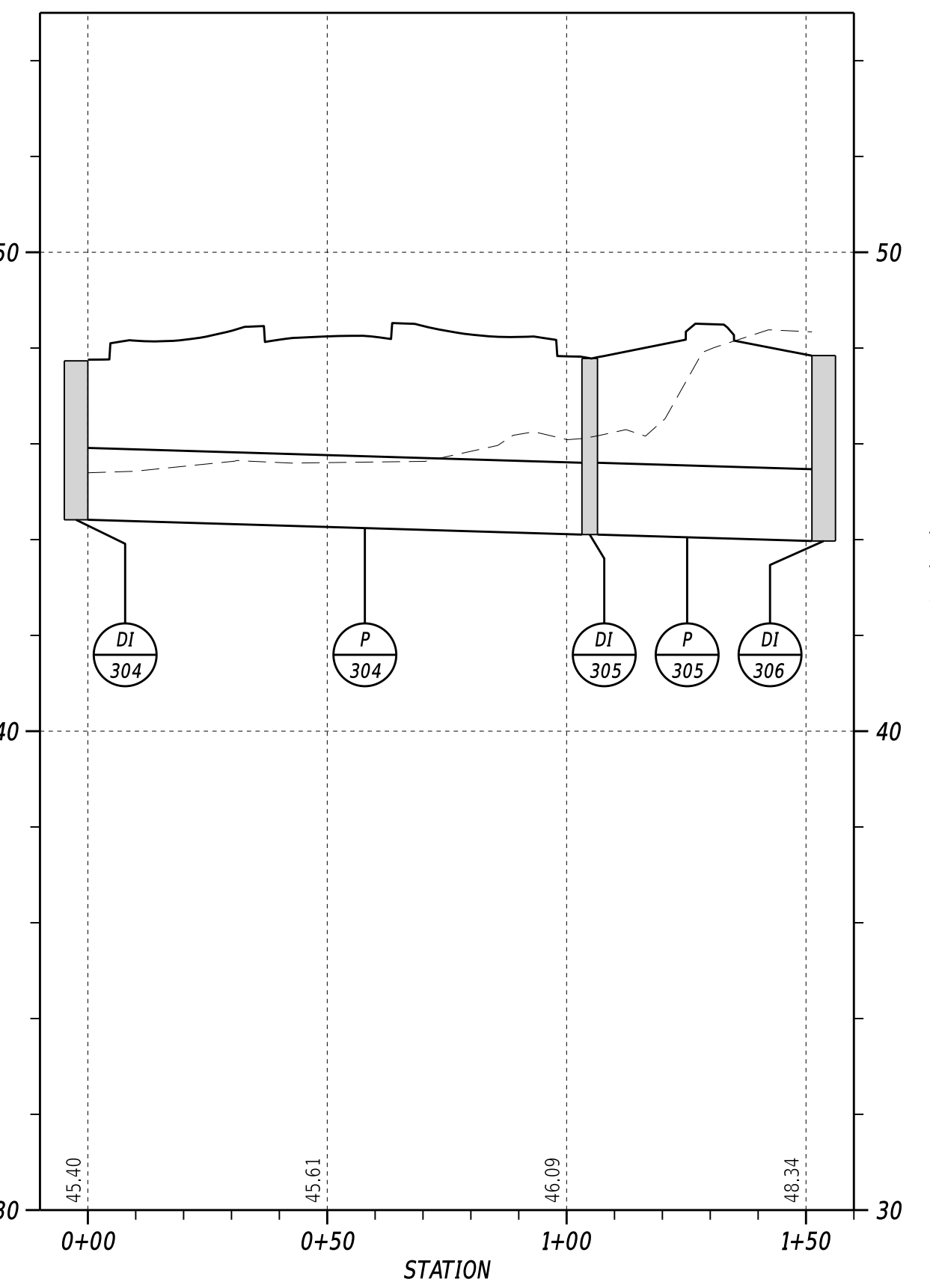
DI-300 TO FES-300



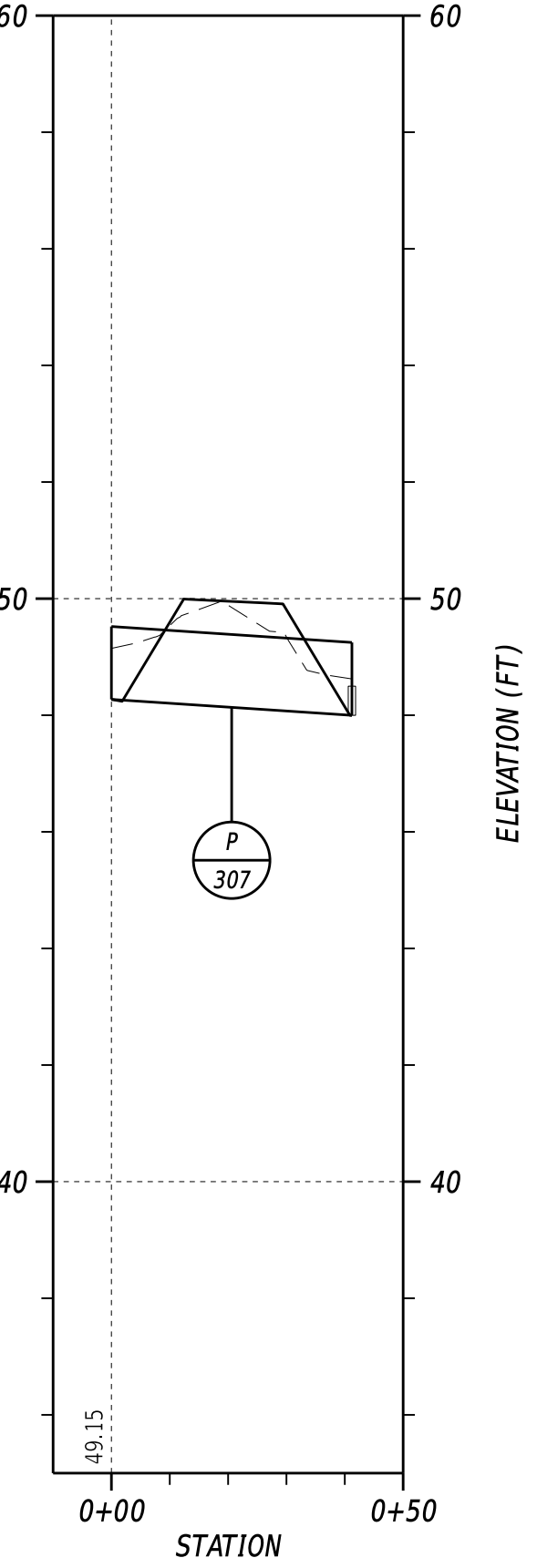
DI-307 TO MH-300



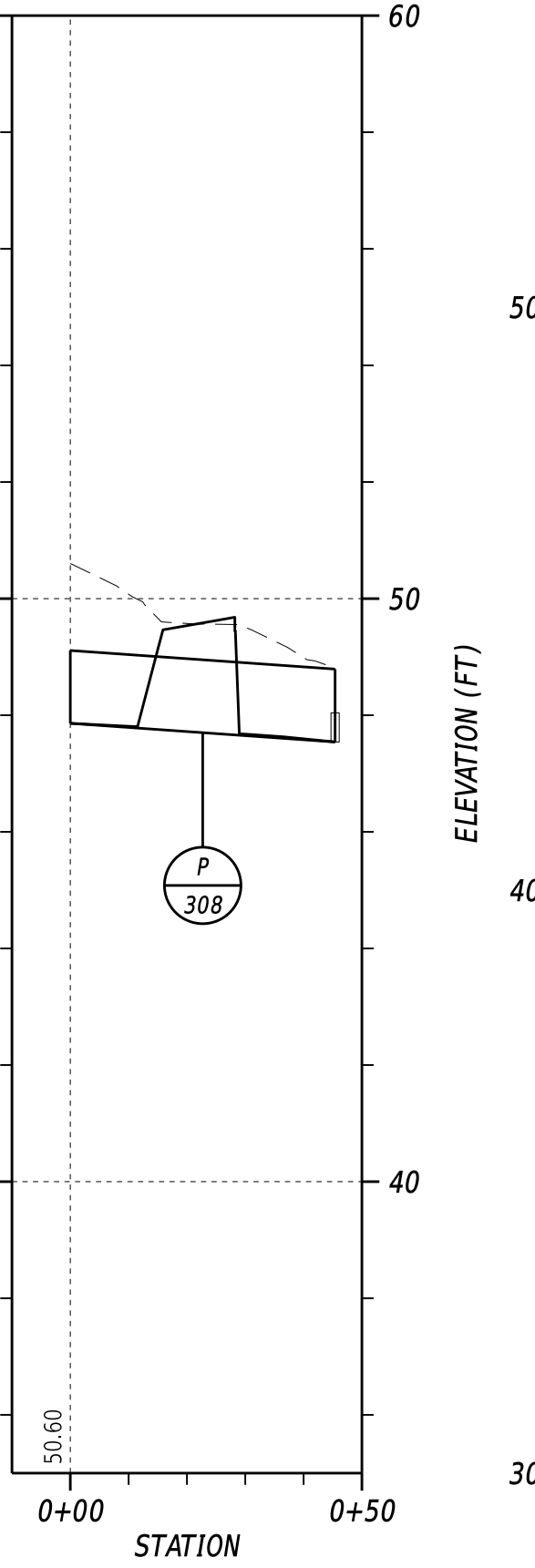
DI-301 TO DI-302



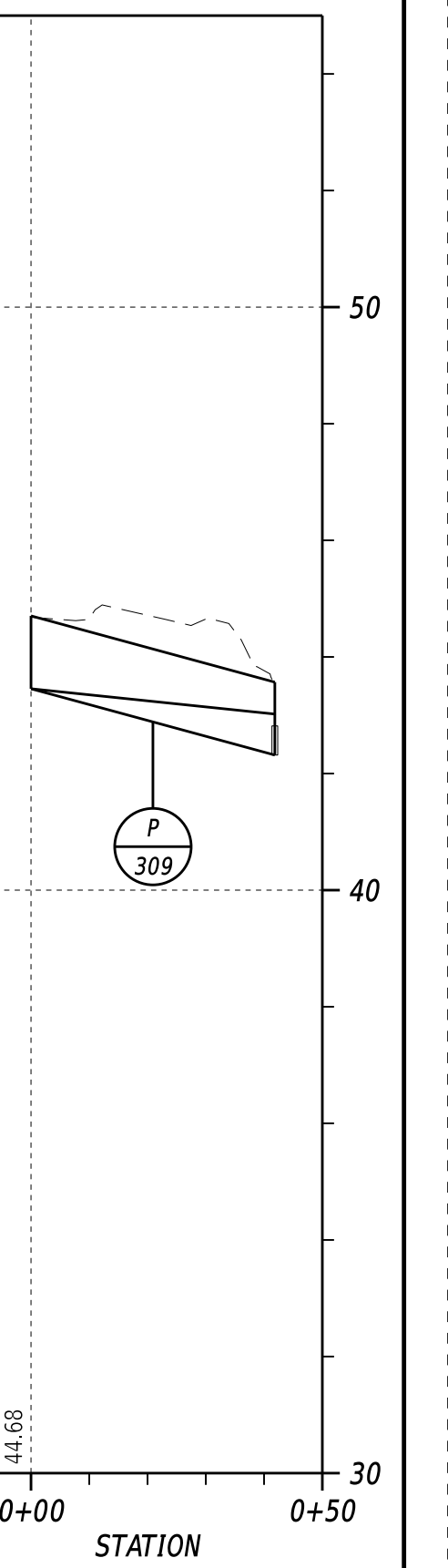
DI-304 TO DI-306



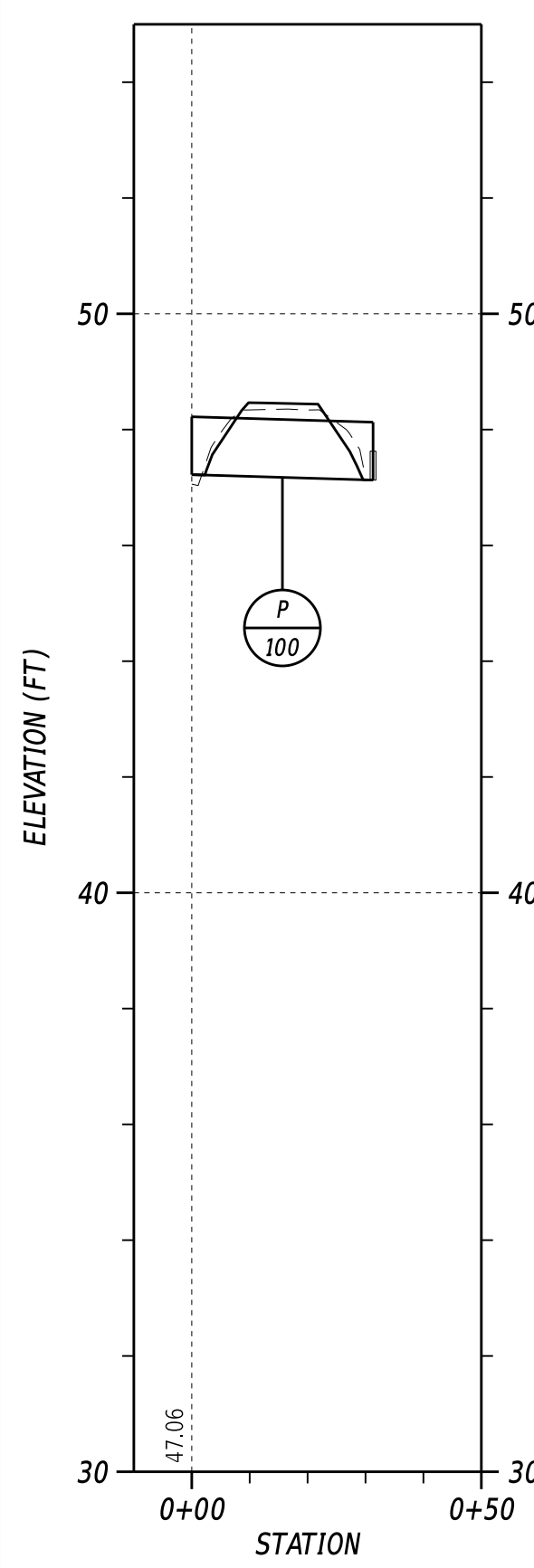
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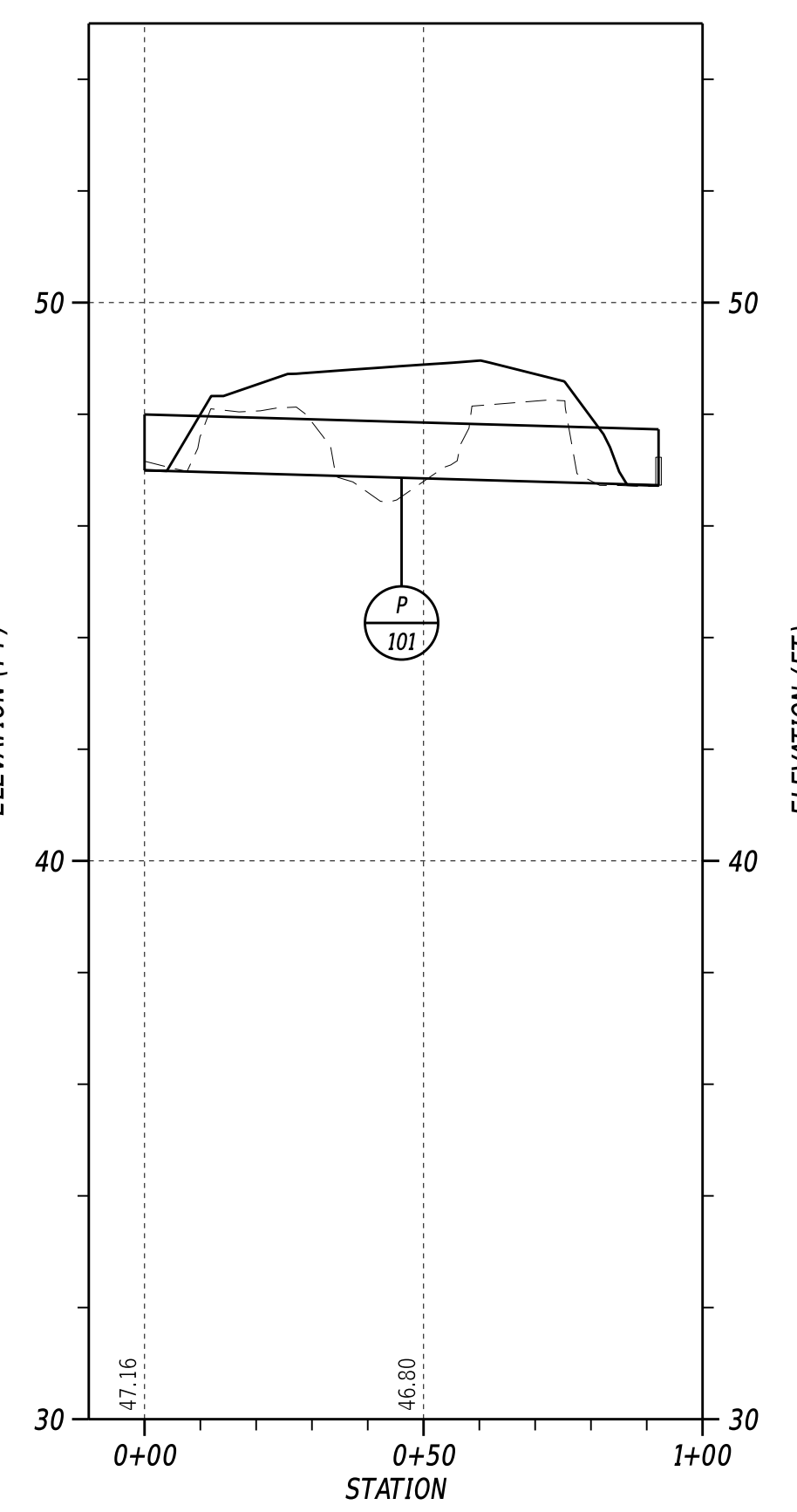
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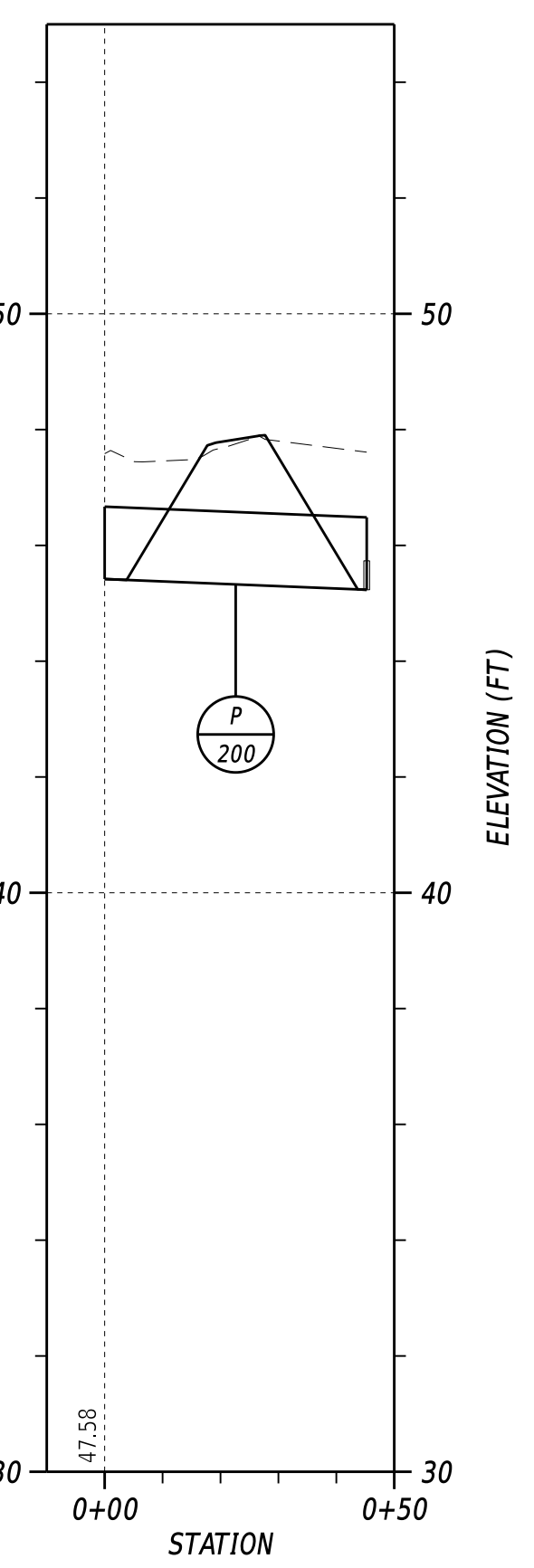
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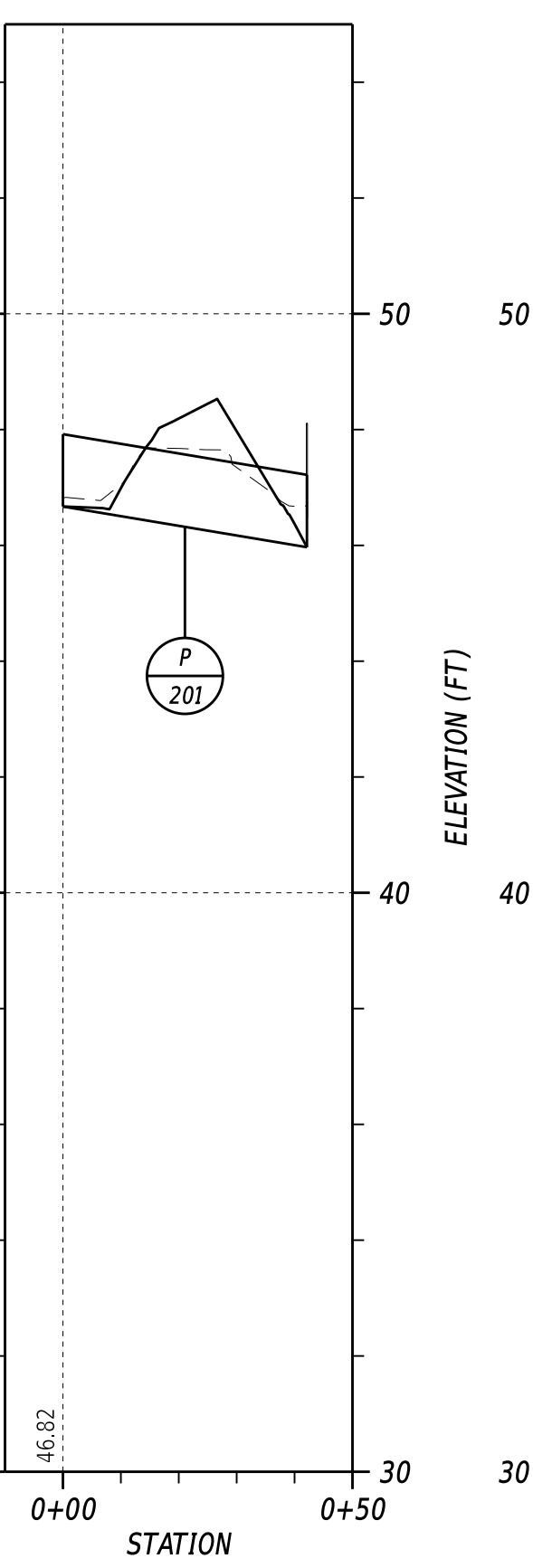
P-100



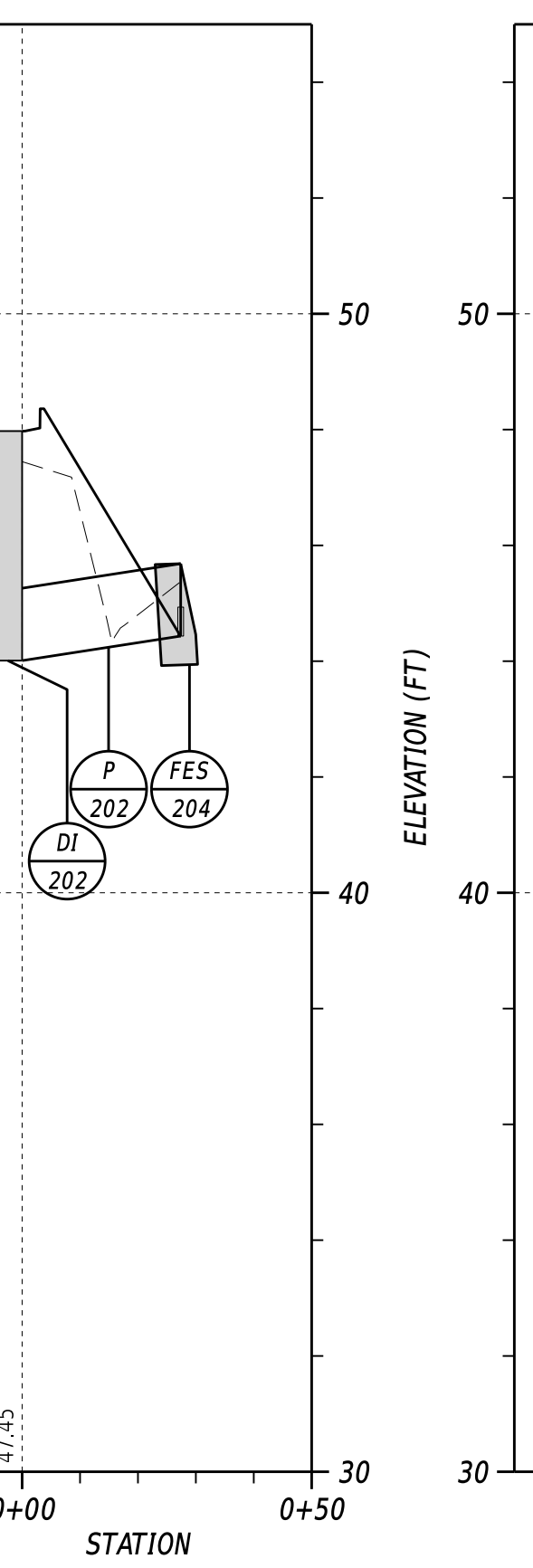
P-101



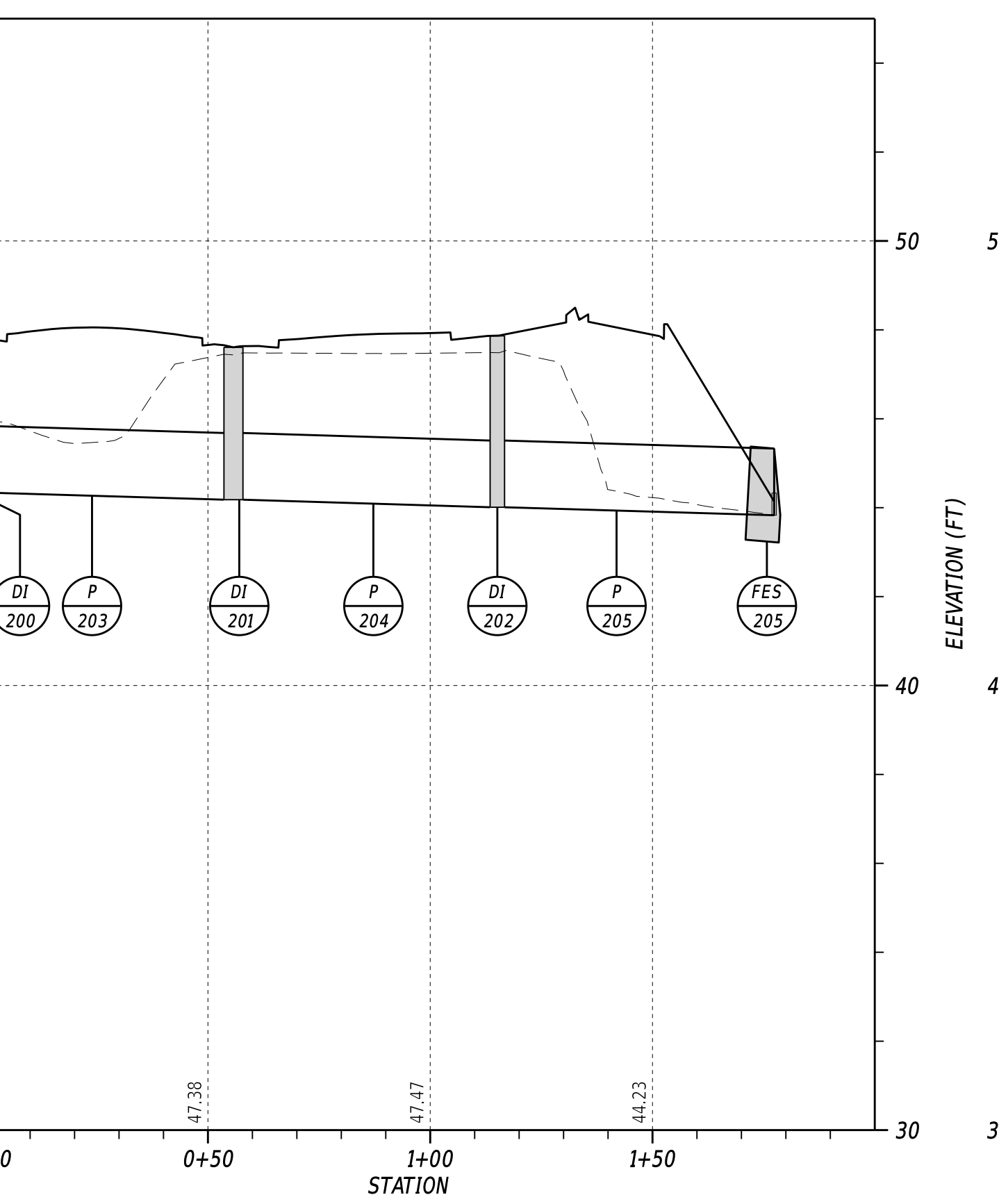
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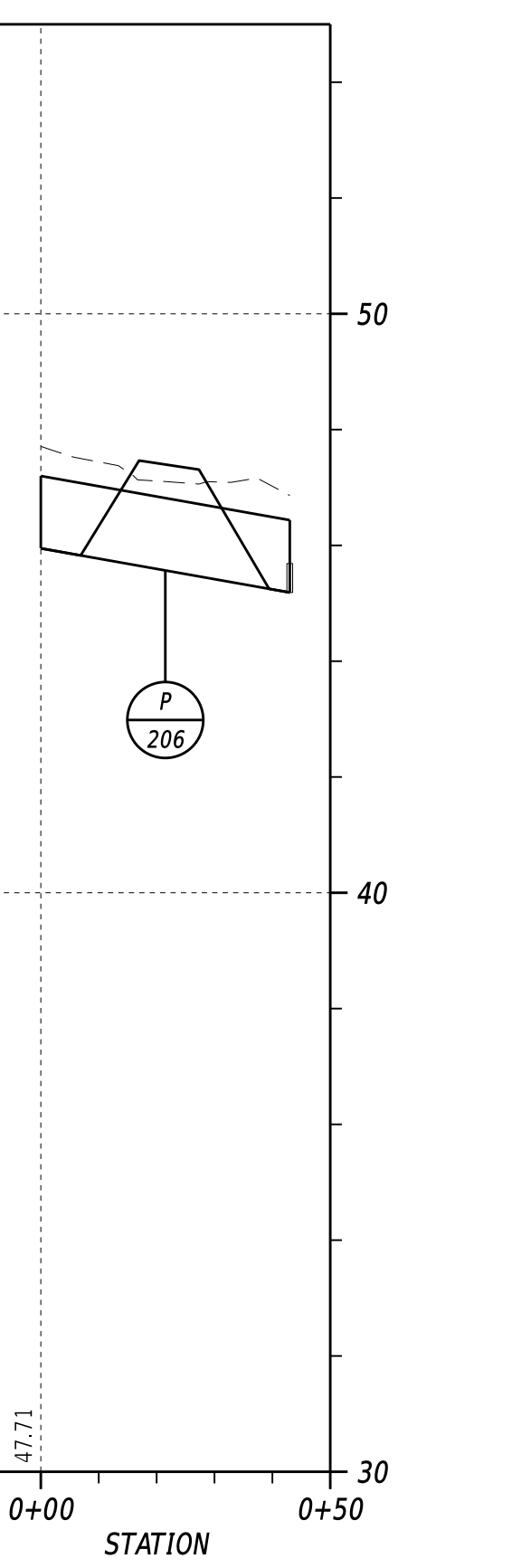
P-201



DI-202 TO FES-204



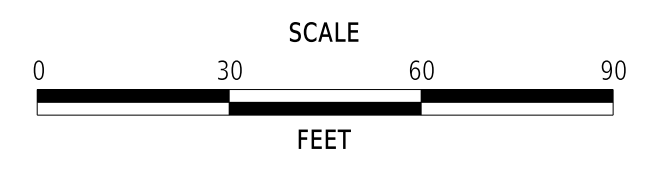
DI-200 TO FES-205



P-206

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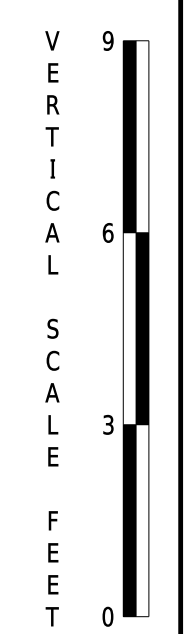
ADDENDA / REVISIONS



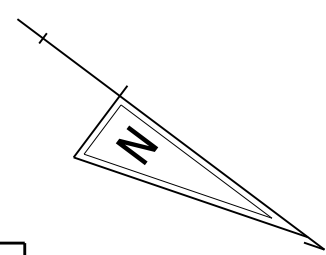
HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

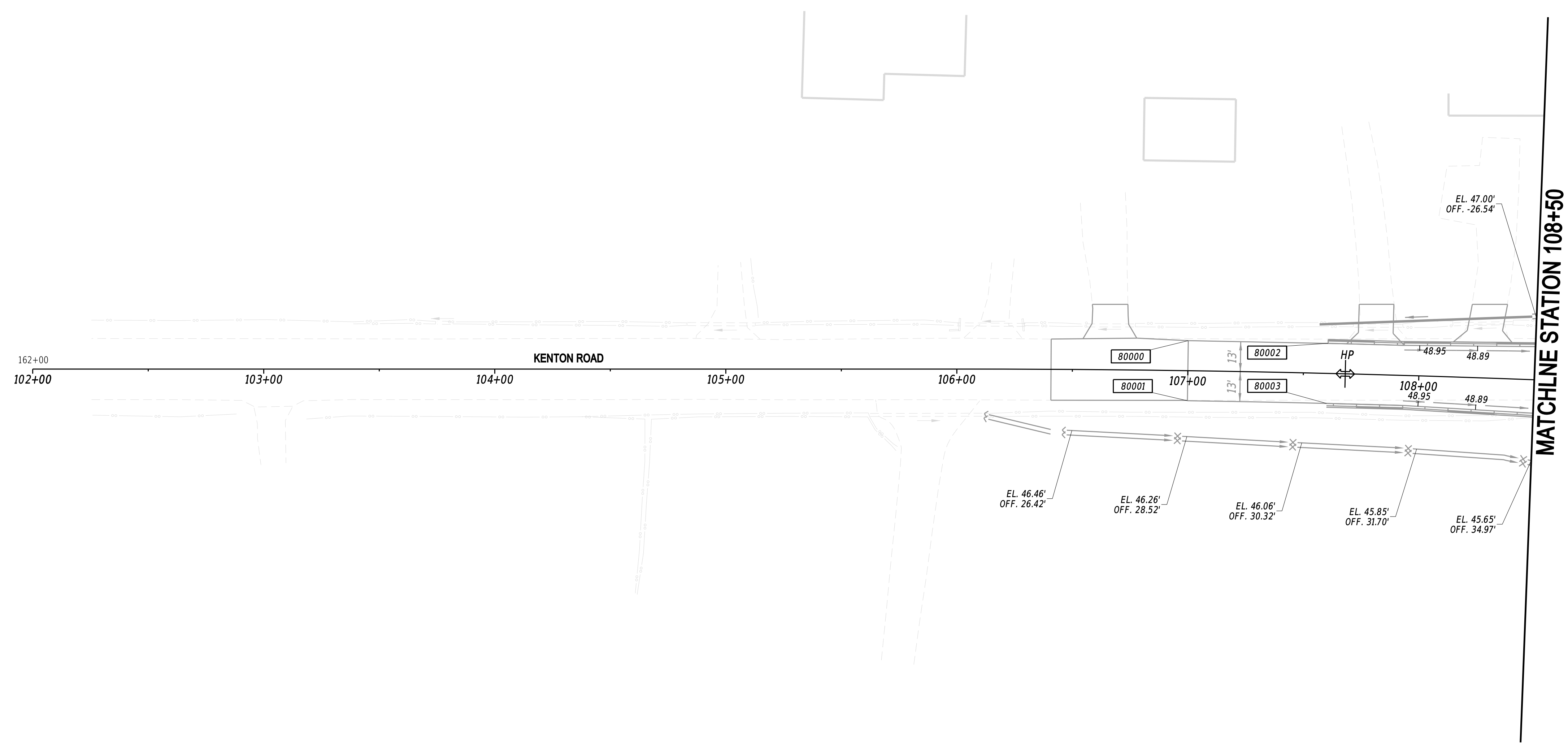
PROFILES



SECTION	CEN
SHEET NO.	19



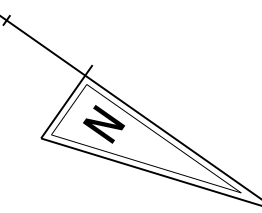
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
80000	107+00.00	-13.00	433856.1286	605822.9077
80001	107+00.00	13.00	433871.4302	605843.9282
80002	107+60.42	-13.00	433905.2269	605787.4909
80003	107+60.34	13.00	433920.2769	605808.7173



- NOTES:
- OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
  - UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
  - RADII ARE GIVEN TO EDGE OF PAVEMENT.
  - UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
  - ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
  - PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT SHALL MATCH ELEVATIONS.

21-OCT-2025 12:37  
 \\fs1-mdeleopw21\CS\_pof\_work\_dir\6283132904\_24\G501\_RDSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS		SCALE FEET	<b>HEP KC, SR15/KENTON RD. AT          CENTRAL CHURCH RD.          INTERSECTION IMPROVEMENTS</b>	CONTRACT	BRIDGE NO.	N/A	<b>GRADES AND          GEOMETRICS</b>	SECTION
				T202104204	DESIGNED BY: A. HALLER			CEN
		COUNTY	CHECKED BY: L. HAXTON	SHEET NO.				
		KENT		20				



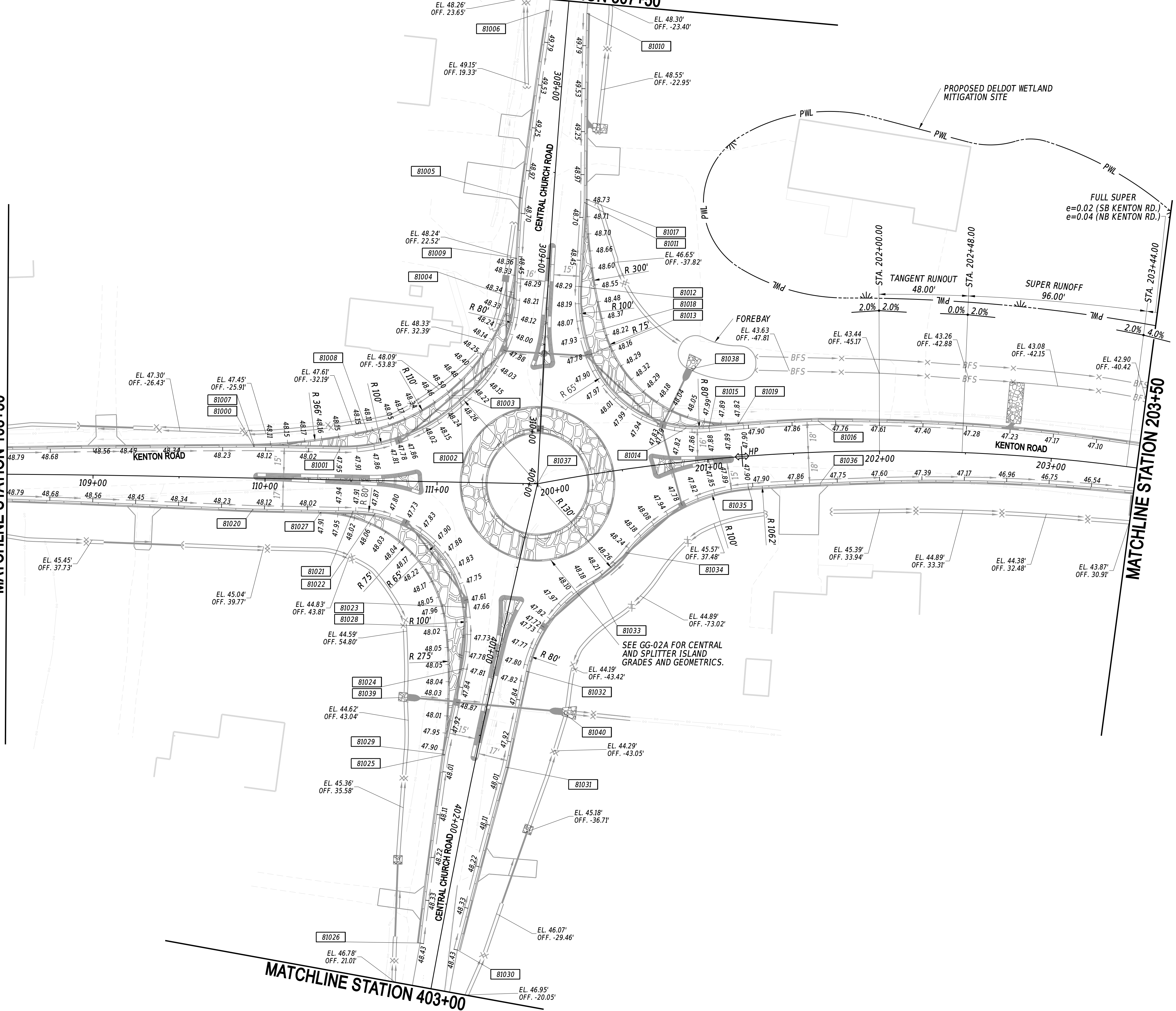
MATCHLINE STATION 307+50

MATCHLINE STATION 108+50

MATCHLINE STATION 203+50

MATCHLINE STATION 403+00

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
81000	109+93.38	-18.00	434094.6370	605651.0754
81001	110+43.03	-18.00	434135.8435	605623.3685
81002	111+12.93	-46.48	434177.9534	605560.7289
81003	309+83.27	43.92	434178.9359	605556.6622
81004	309+24.65	18.00	434169.7637	605493.1499
81005	308+66.16	18.00	434139.0647	605443.1367
81006	307+56.20	11.00	434088.9265	605344.6815
81007	109+93.36	-18.93	434094.1006	605650.3109
81008	110+58.97	-28.12	434143.4224	605606.0832
81009	309+01.10	18.92	434156.5530	605473.5308
81010	307+56.20	-11.00	434107.9757	605333.6757
81011	308+66.22	-18.00	434169.8806	605424.5253
81012	309+15.30	-18.00	434195.4299	605466.2319
81013	309+54.88	-25.97	434223.0832	605495.5000
81014	200+89.23	-19.21	434293.6676	605498.0885
81015	201+02.37	-18.00	434304.5768	605490.2723
81016	201+65.01	-18.00	434354.2247	605450.3956
81017	308+64.25	-18.92	434169.6472	605422.3712
81018	309+39.19	-33.60	434221.2334	605478.1664
81019	201+19.26	-18.92	434317.1538	605478.5283
81020	109+93.36	18.00	434114.7122	605680.9583
81021	110+51.49	18.00	434162.9522	605648.5221
81022	110+64.34	19.04	434174.1914	605642.2158
81023	400+79.17	24.51	434248.6067	605656.6730
81024	401+14.18	18.00	434268.0955	605686.6380
81025	401+64.99	18.00	434288.0380	605733.5693
81026	402+74.99	11.00	434339.1310	605831.5757
81027	110+32.86	18.92	434148.0017	605659.6793
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81031	401+64.99	-18.00	434321.1020	605719.3294
81032	401+07.77	-18.00	434298.8330	605666.8340
81033	400+47.81	-44.14	434300.3433	605601.7654
81034	200+44.82	48.02	434306.5082	605577.2891
81035	201+22.26	18.00	434342.9344	605505.1221
81036	201+65.01	18.00	434375.9449	605479.1051
81037	111+58.36	0.00	434241.5939	605573.9534
81038	200+94.70	-53.22	434275.6336	605468.7041
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81040	401+26.42	-43.53	434329.5439	605674.0423



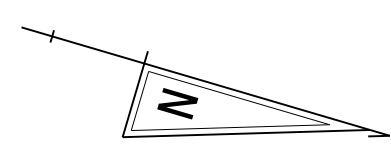
SEE GG-02A FOR CENTRAL AND SPLITTER ISLAND GRADES AND GEOMETRICS.

- NOTES:
1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
  2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
  3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
  4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
  5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
  6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT SHALL MATCH ELEVATIONS.

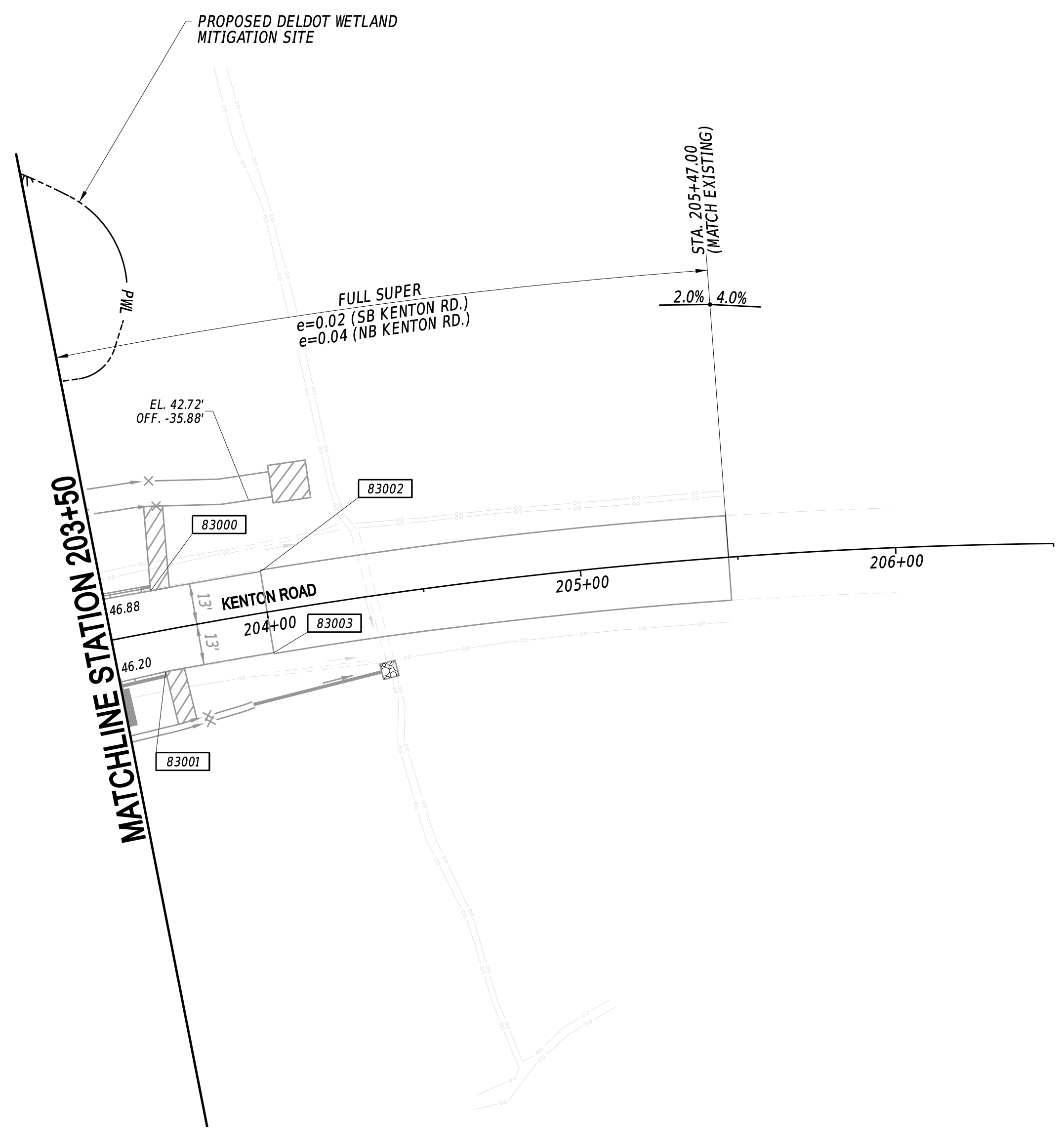
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ADDENDA / REVISIONS		SCALE 0 30 60 90 FEET		HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS		CONTRACT T202104204		BRIDGE NO. N/A		GG-02	
						COUNTY KENT		DESIGNED BY: A. HALLER		SECTION CEN	
								CHECKED BY: L. HAXTON		SHEET NO. 21	
										GRADES AND GEOMETRICS	





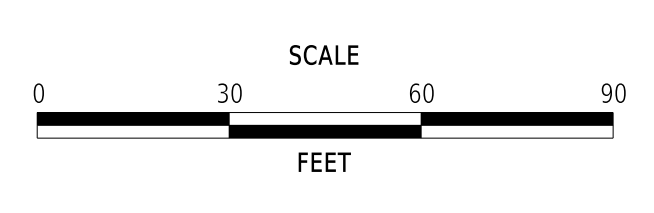
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POINT NO.	STATION	OFFSET	NORTHING	EASTING
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83001	203+65.00	13.00	434540.6491	605370.9841
83002	204+00.00	-13.00	434560.4566	605332.1423
83003	204+00.00	13.00	434571.7578	605355.5577



- NOTES:
1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
  2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
  3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
  4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
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  6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT SHALL MATCH ELEVATIONS.

21-OCT-2025 12:39 \\s:\m-deldot\p\21\CS\_pof\_work\_dir\6283132904\_26\G503\_RDSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS

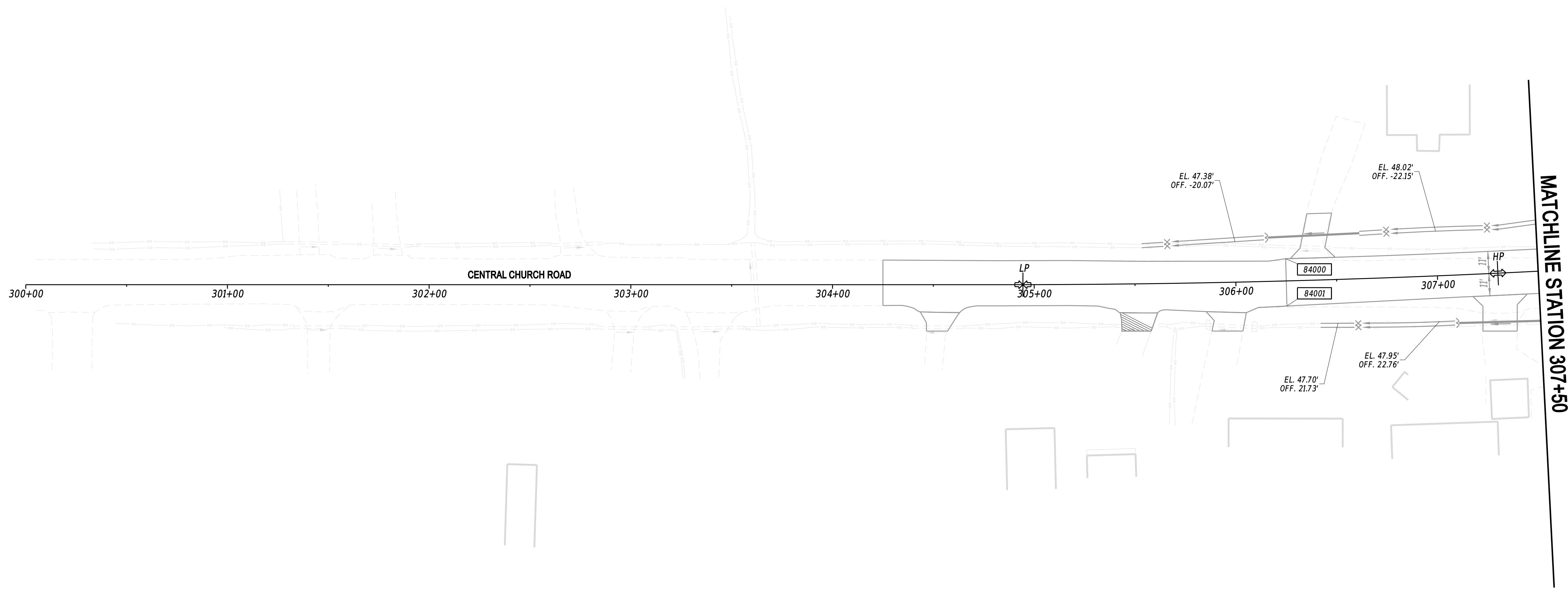
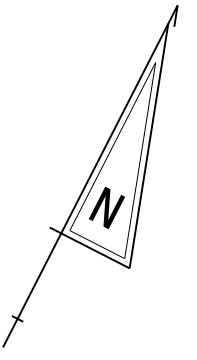


**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>GRADES AND GEOMETRICS</b>	GG-03
	SECTION
	CEN
	SHEET NO.
	23

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
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84001	306+25.00	12.45	434023.3175	605230.7159

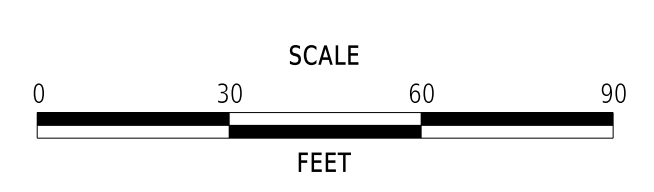


MATCHLINE STATION 307+50

- NOTES:
- OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
  - UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
  - RADII ARE GIVEN TO EDGE OF PAVEMENT.
  - UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
  - ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
  - PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT SHALL MATCH ELEVATIONS.

21-OCT-2025 12:44 \\fs1-mdeleopw21\CS\_pdf\_work\_dir\628332904\_27\G504\_RDSF\_T202104204\_CEL.dgn

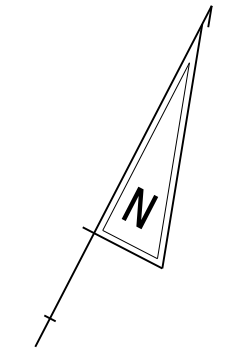
ADDENDA / REVISIONS



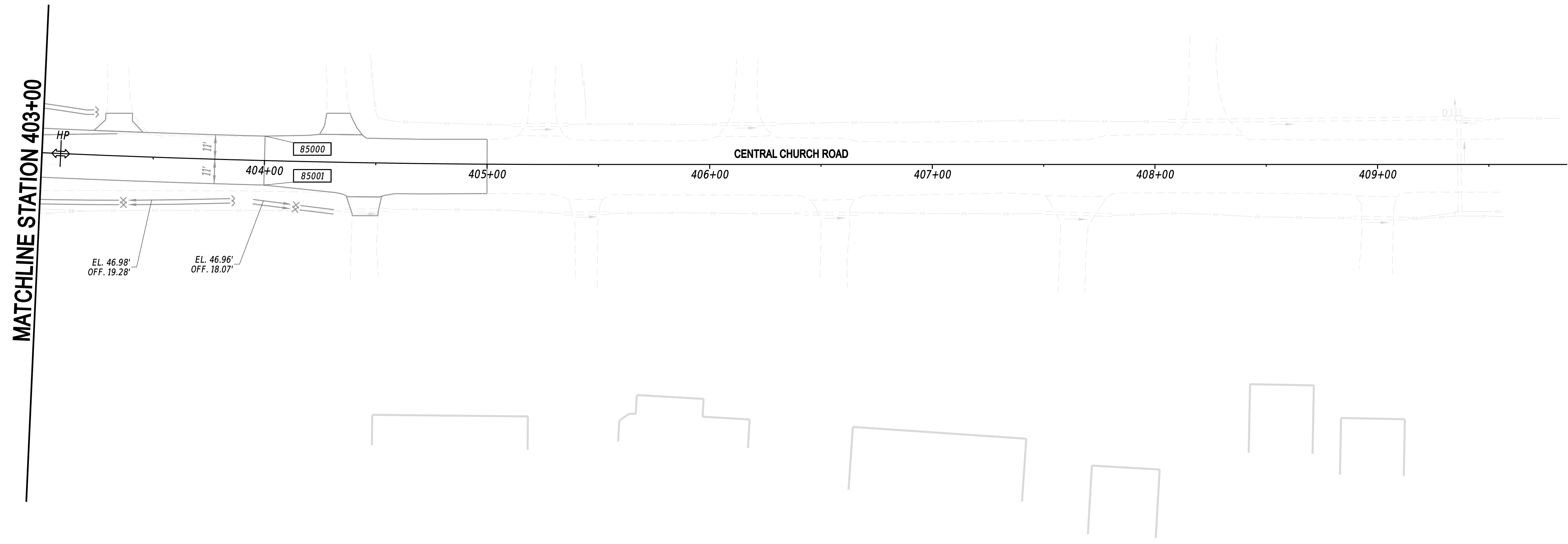
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>GRADES AND GEOMETRICS</b>	GG-04
	SECTION
	CEN
	SHEET NO.
	24



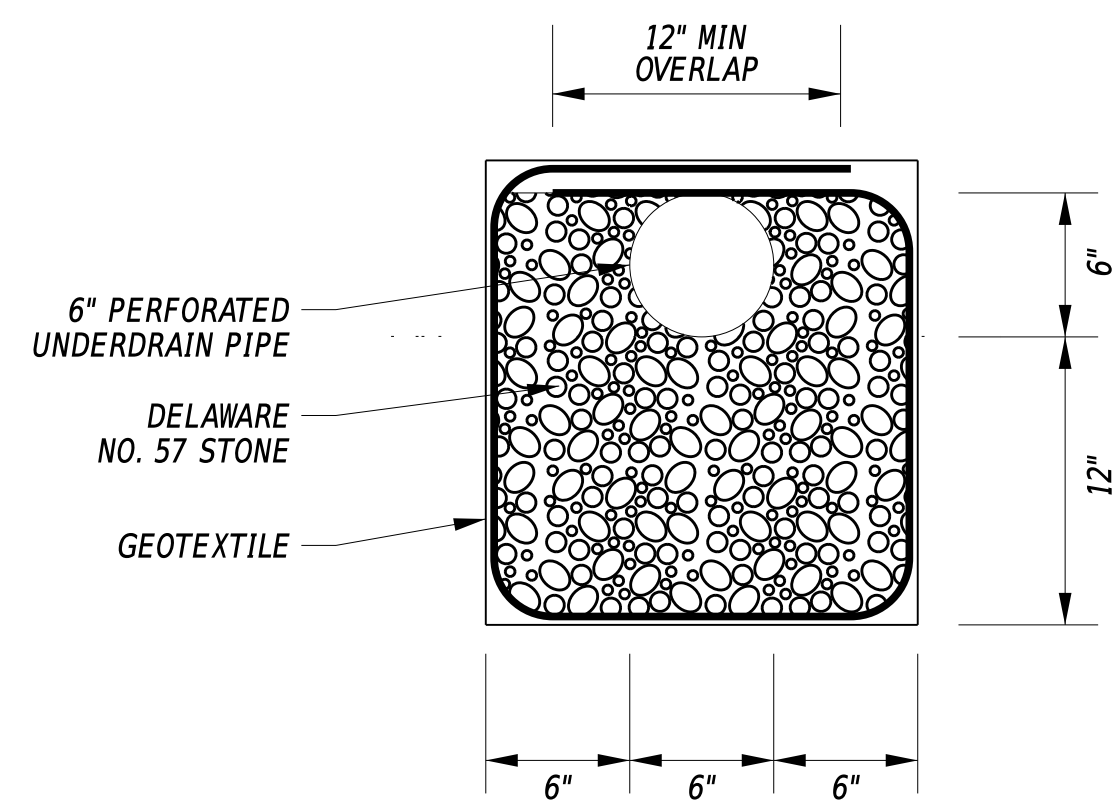
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POINT NO.	STATION	OFFSET	NORTHING	EASTING
85000	404+00.00	-11.00	434412.2422	605935.3283
85001	404+00.00	11.00	434392.4477	605944.9293



- NOTES:
1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION & R/W BASELINE.
  2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO THE EDGE OF PAVEMENT.
  3. RADII ARE GIVEN TO EDGE OF PAVEMENT.
  4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT CURB RETURNS ARE GIVEN AT 10 FOOT INTERVALS.
  5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501-CONSTRUCTION ENGINEERING.
  6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT SHALL MATCH ELEVATIONS.

21-OCT-2025 12:47 \\s:\deloitte\p\21\CS\_pdf\_work\_dir\6283132904\_32\G505\_RDSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS		SCALE FEET	<b>HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS</b>			CONTRACT T202104204	BRIDGE NO. N/A	<b>GRADES AND GEOMETRICS</b>	<b>GG-05</b> SECTION
			COUNTY KENT	DESIGNED BY: A. HALLER		SHEET NO. 25			
		CHECKED BY: L. HAXTON							

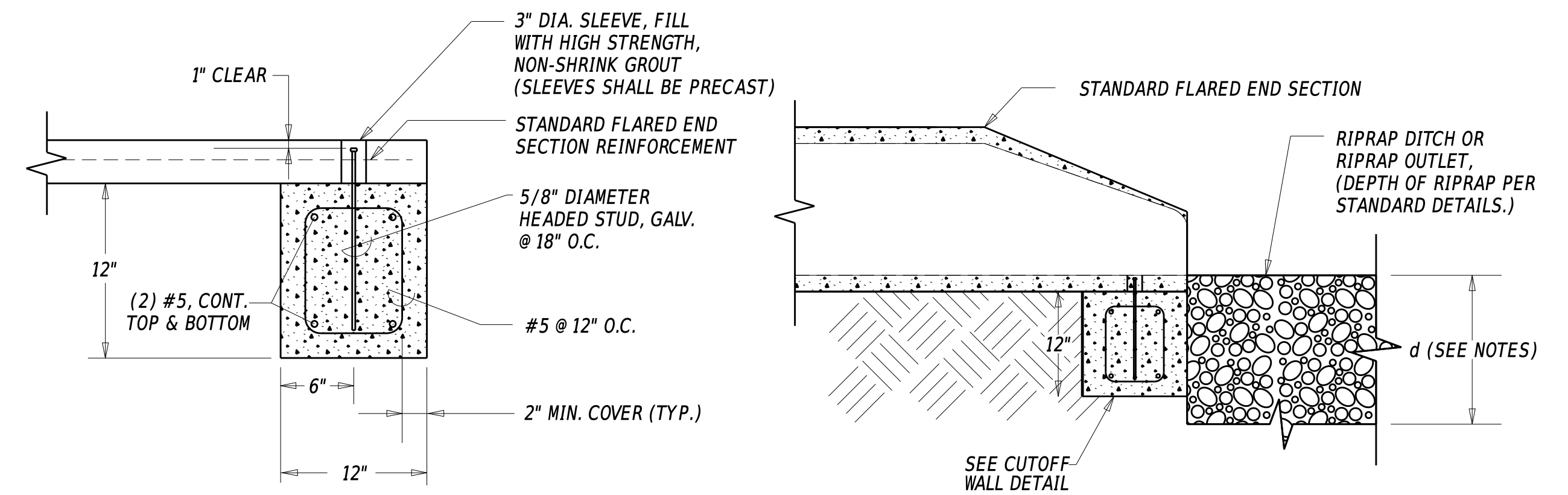


**MODIFIED UNDERDRAIN DETAIL**  
N.T.S.

ITEM 709001 - PERFORATED PIPE UNDERDRAINS, 6"

**NOTES:**

1. APPLIED FROM STA. 201+20 LEFT TO 202+50 LEFT.
2. APPLIED TO UNDERDRAIN WITHIN CENTRAL ISLAND OF ROUNDABOUT.

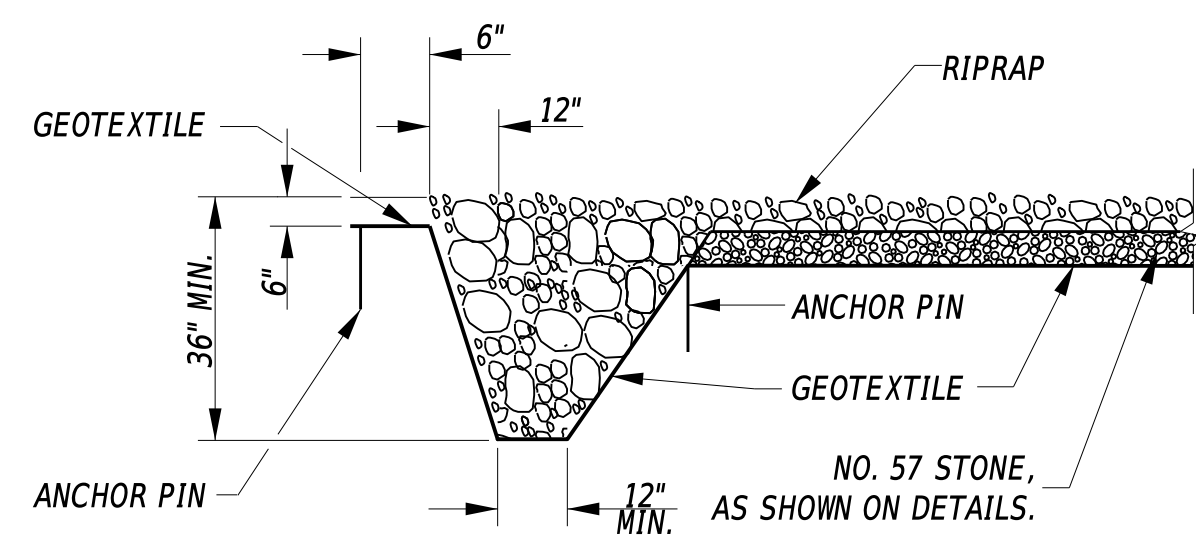


**CUTOFF WALL DETAIL**  
N.T.S.

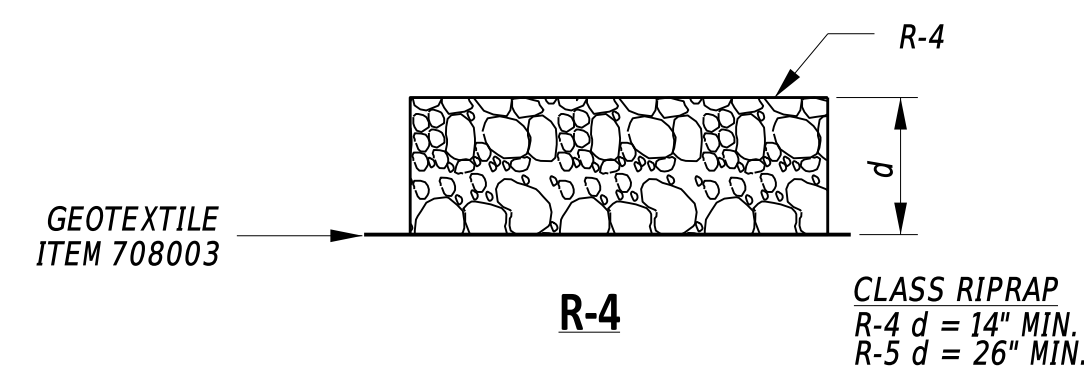
**SIDE VIEW WITH OUTLET PROTECTION**  
N.T.S.

**NOTES:**

1. FLARED END SECTIONS SMALLER THAN 24 INCHES SHALL UTILIZE DELDOT STANDARD DETAIL D-8, PIPE FLARED END SUPPORT. FLARED END SECTIONS 24 INCHES AND LARGER SHALL UTILIZE THE DETAIL PROVIDED ON THIS SHEET.
2. FLARED END SECTIONS SHALL BE BEDDED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATION 601, REINFORCED CONCRETE PIPE.
3. FLARED END SECTIONS SHALL RECEIVE A 12 INCH WIDE CUTOFF WALL CONSTRUCTED AS SHOWN. CUTOFF WALL MAY BE CAST-IN-PLACE OR PRECAST CLASS B CONCRETE. ALL COSTS FOR THE CUTOFF WALL SHALL BE INCIDENTAL TO THE FLARED END SECTION BEING INSTALLED.
4. DEPTH OF RIPRAP (d) PER STANDARD DETAILS.
5. PAYMENT FOR CUTOFF WALL EXCAVATION, CONCRETE, REBAR, SLEEVE, GROUT, AND GALVANIZED STUD ARE INCIDENTAL TO THE FLARED END SECTION BEING INSTALLED.



**RIPRAP KEY-IN DETAIL**  
N.T.S.



**RIPRAP BLANKET SECTION DETAILS**  
N.T.S.

**NOTES:**

1. SEE CONSTRUCTION PLANS FOR LOCATIONS AND SIZES OF RIPRAP BLANKET.
2. RIPRAP SHALL BE KEYED IN AT DOWNSTREAM END OF BLANKET FOLLOWING RIPRAP KEY-IN DETAIL.
3. FOR RIPRAP PAID BY SY, ONLY THE TOP SURFACE OF THE KEY WILL BE MEASURE FOR PAYMENT.

ADDENDA / REVISIONS

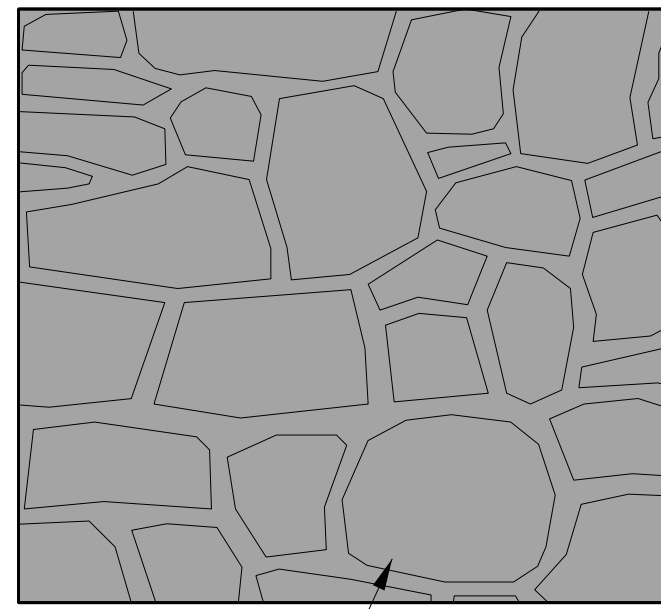
NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**CONSTRUCTION DETAILS**

SECTION
CEN
SHEET NO.
26

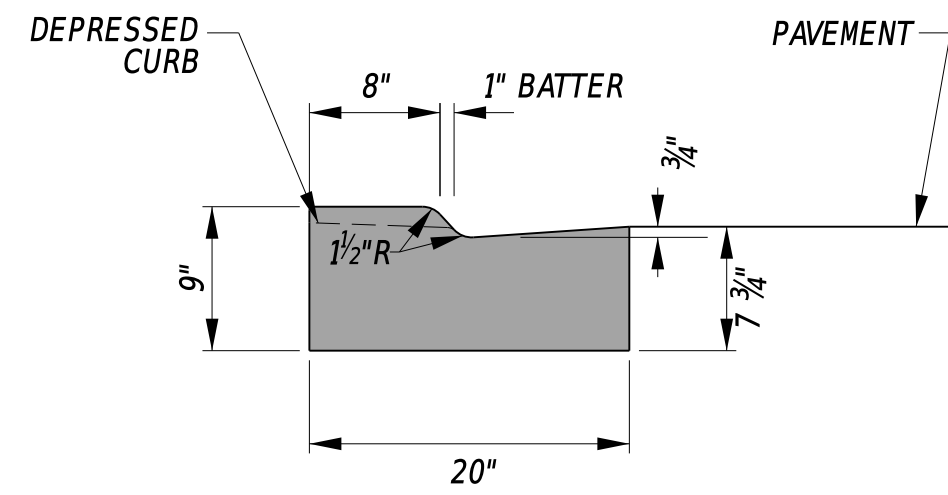


RED PIGMENT  
(SEE SPECIAL PROVISION)

**PATTERNED PORTLAND CEMENT CONCRETE DETAIL**  
N.T.S.

**NOTES:**

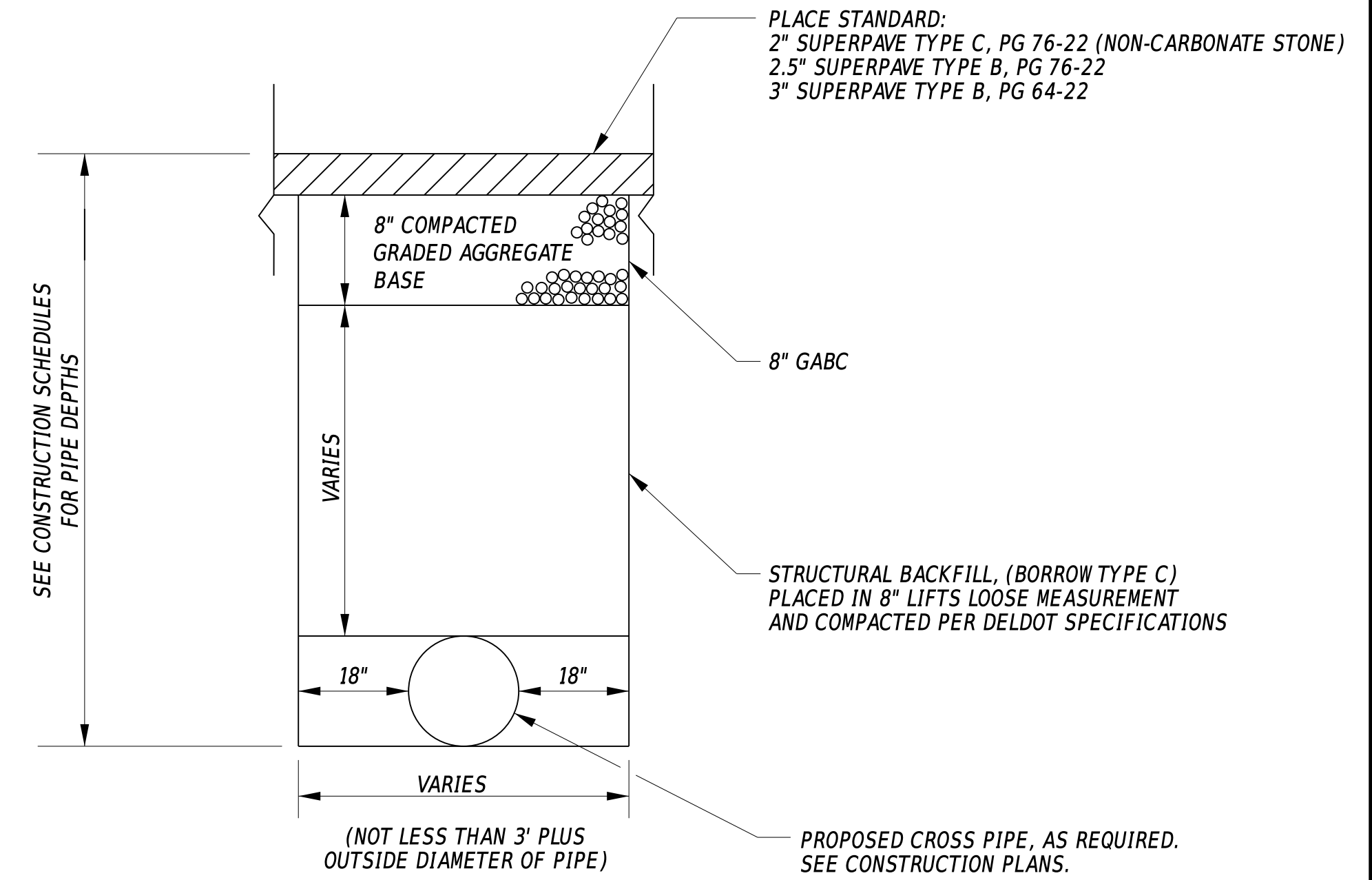
1. PLACE IN ROUNDABOUT TRUCK APRONS AND SPLITTER ISLANDS.
2. CONTRACTOR SHALL SUBMIT MEANS AND METHODS FOR CONSTRUCTION OF THE PATTERNED PCC SIDEWALK TO THE ENGINEER FOR APPROVAL.
3. PAID FOR UNDER ITEM 705521 - PATTERNED PCC SIDEWALK, 8".



**I.PCC CURB AND GUTTER TYPE 3-2, MODIFIED DETAIL**  
N.T.S.

**NOTES:**

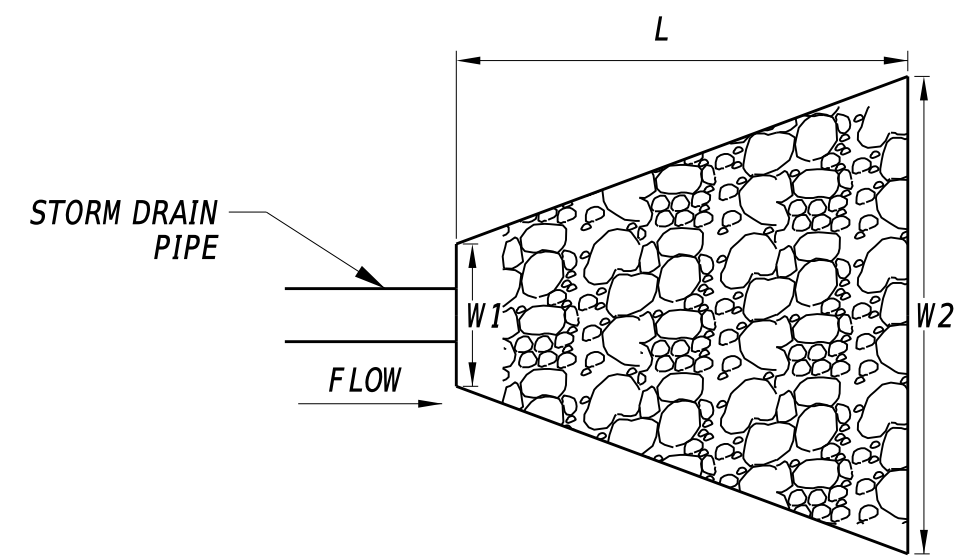
1. PAID FOR UNDER ITEM 701020 - I.PCC CURB AND GUTTER, TYPE 3-2.



**TEMPORARY PATCH DETAIL (BITUMINOUS CONCRETE)**  
N.T.S.

**NOTES:**

1. TRANSVERSE SLOPES SHOULD BE A MINIMUM OF 6:1, LONGITUDINAL SLOPES SHOULD BE A MINIMUM OF 10:1 UNLESS OTHERWISE PROTECTED.

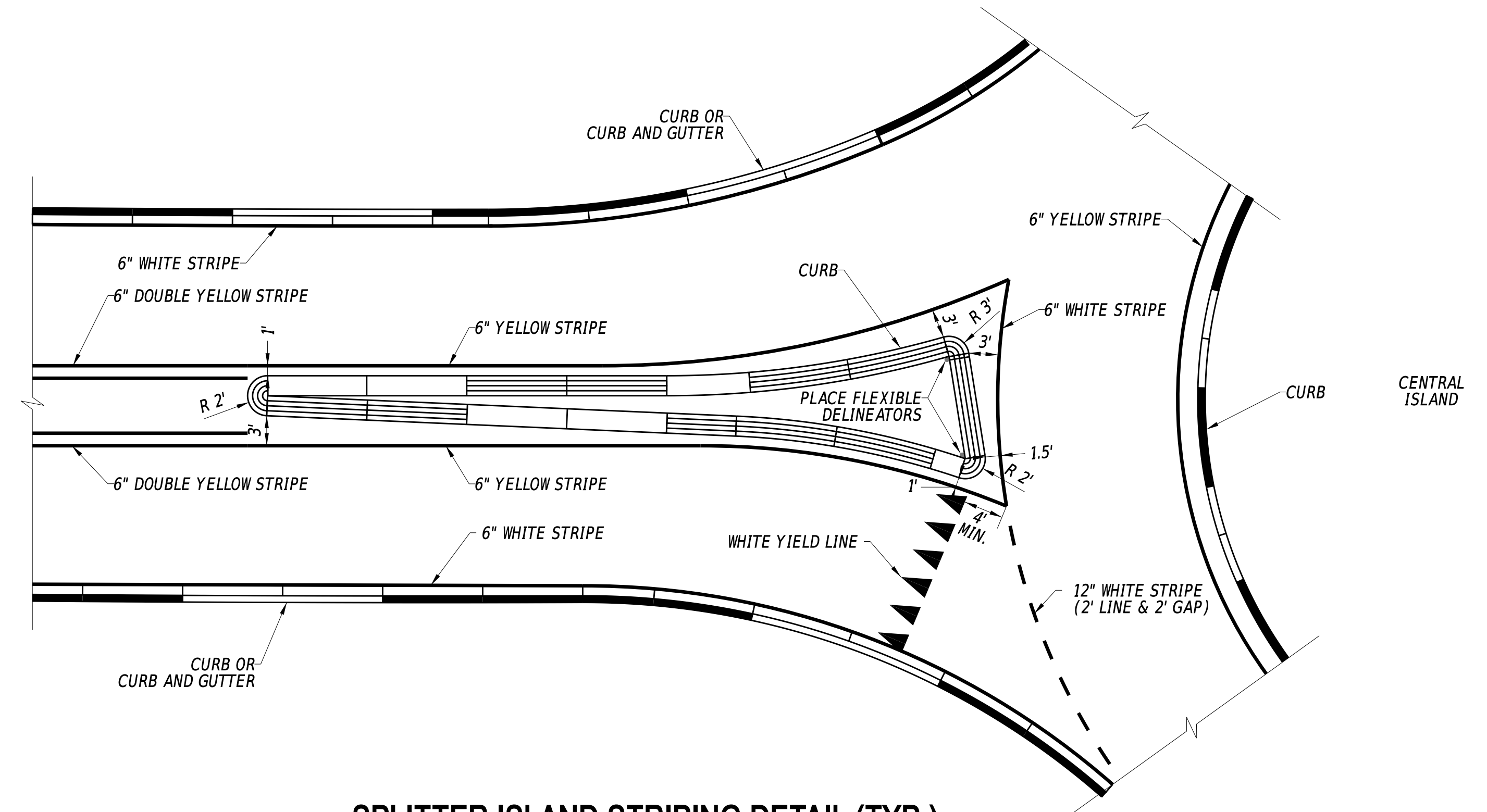


RIPRAP SCHEDULE			
NO.	W1 (FT)	W2 (FT)	L (FT)
204	4.5	7.7	8.0
305	4.5	7.7	8.0

**NOTES:**

1. PLACE A MINIMUM BLANKET THICKNESS OF 18"

**RIPRAP OUTLET PROTECTION DETAIL**  
N.T.S.



**SPLITTER ISLAND STRIPING DETAIL (TYP.)**  
N.T.S.

ADDENDA / REVISIONS

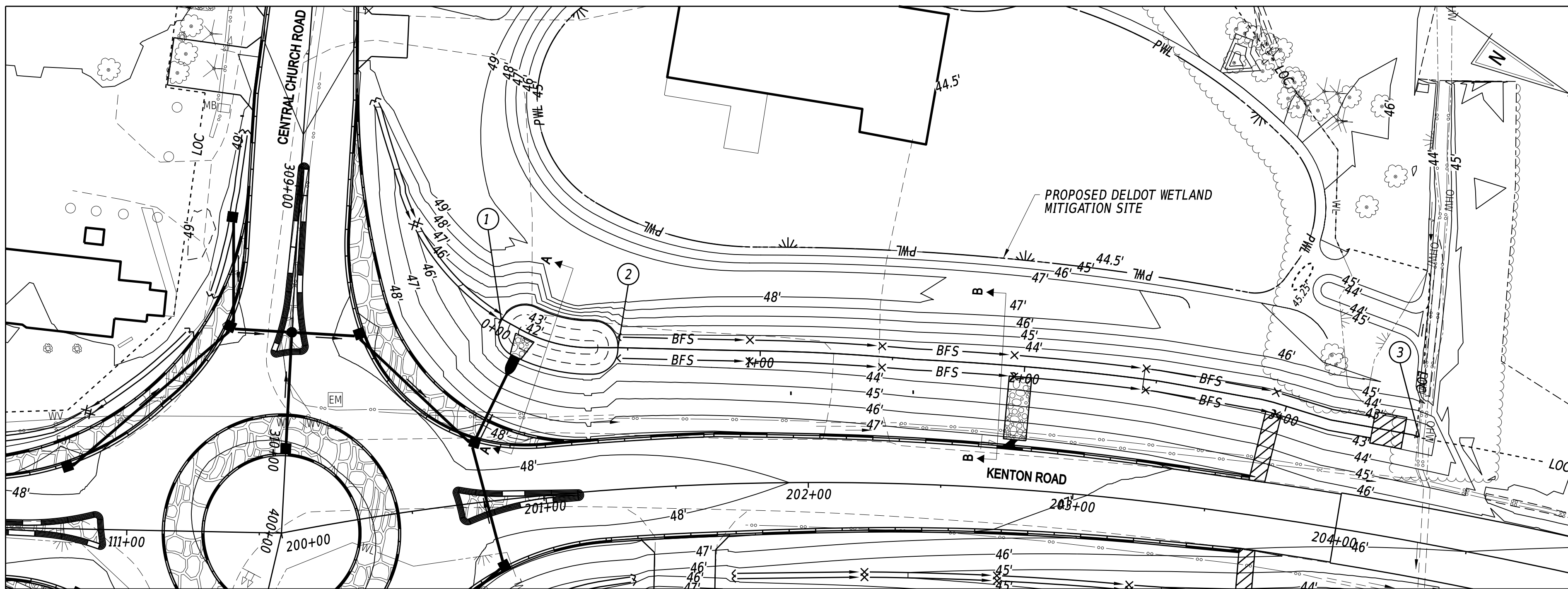
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**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

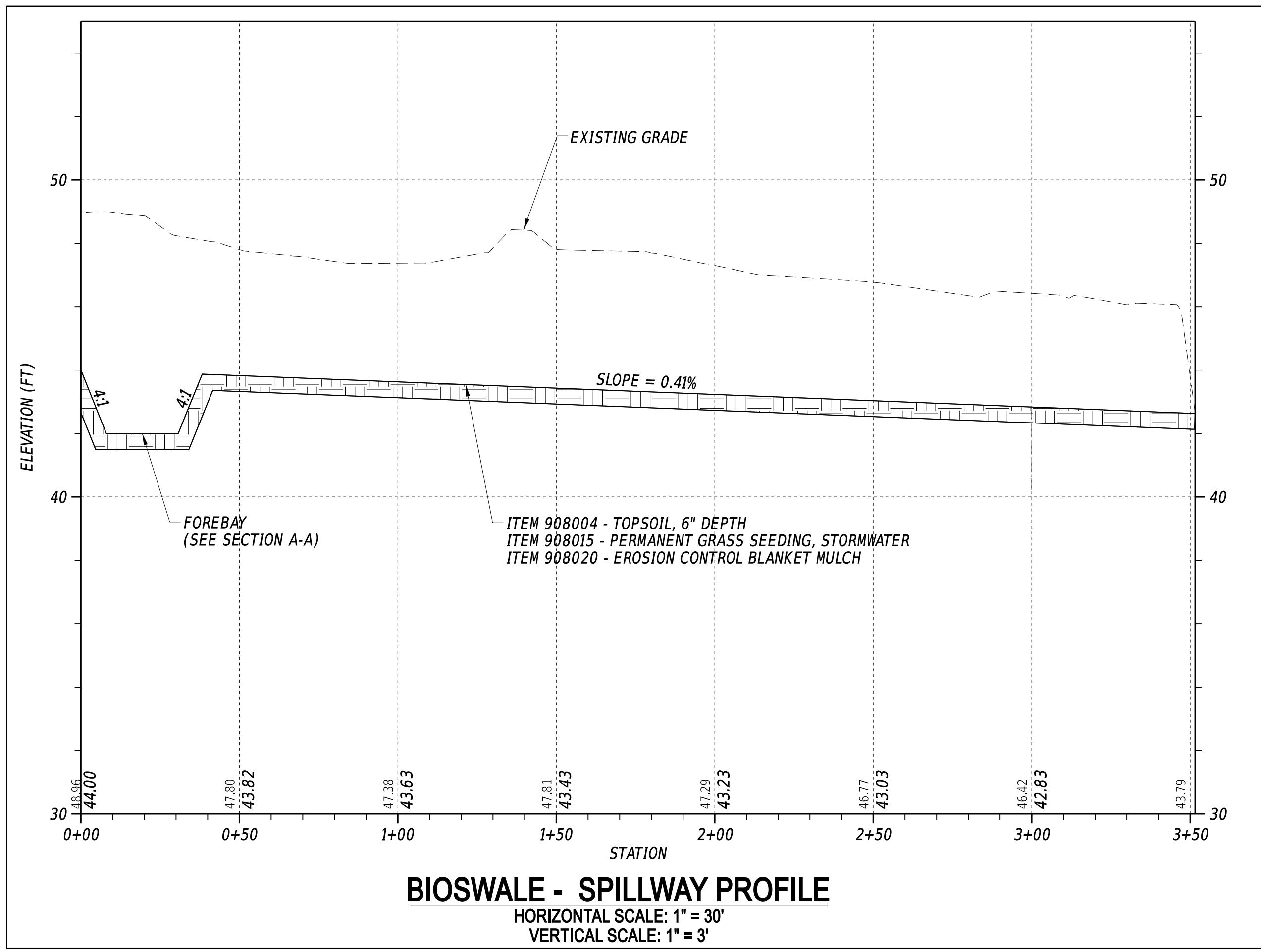
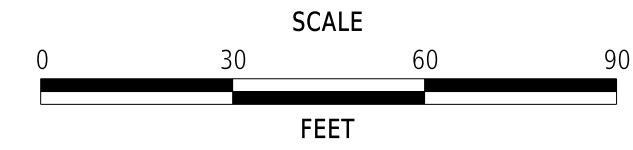
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**CONSTRUCTION DETAILS**

SECTION
CEN
SHEET NO.
27



**PLAN - DELDOT SWM BMP #1143  
BIOSWALE**



**BIOSWALE - SPILLWAY PROFILE**  
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: 1" = 3'

**BIOSWALE CONSTRUCTION SEQUENCE AND NOTES:**

- NOTIFY THE CCR A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION SO THAT THE REQUIRED FACILITY CONSTRUCTION CHECKLIST CAN BE COMPLETED.
- BEFORE SOIL DISTURBANCE, CONTRACTOR SHALL CLEARLY MARK BIOSWALE BOUNDARY.
  - CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
  - INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
  - CLEAR AND GRUB REMAINING AREA FOR CONSTRUCTION.
  - GRADE THE BIOSWALE AND SEDIMENT FOREBAY TO THE FINAL DIMENSIONS SHOWN ON THE PLANS. CONSTRUCTION EQUIPMENT SHALL WORK FROM THE SIDES. EXCAVATING EQUIPMENT SHALL HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT HAVE TO SIT INSIDE THE FOOTPRINT OF THE BIOSWALE CHANNEL AREA. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
  - INSTALL COMPOST FILTER LOG CHECK DAMS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
  - COMPLETE STABILIZATION OF ALL BARE AREAS ALONG THE BOTTOM AND SIDES OF THE BIOSWALE WITH ITEM 908015, PERMANENT GRASS SEEDING - STORMWATER AND MULCHED WITH ITEM 908020, EROSION CONTROL BLANKET MULCH.
  - AFTER ALL SURROUNDING AREAS DRAINING TO THE BIOSWALE HAVE SUFFICIENT VEGETATION, AS APPROVED BY THE STORMWATER ENGINEER, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED.

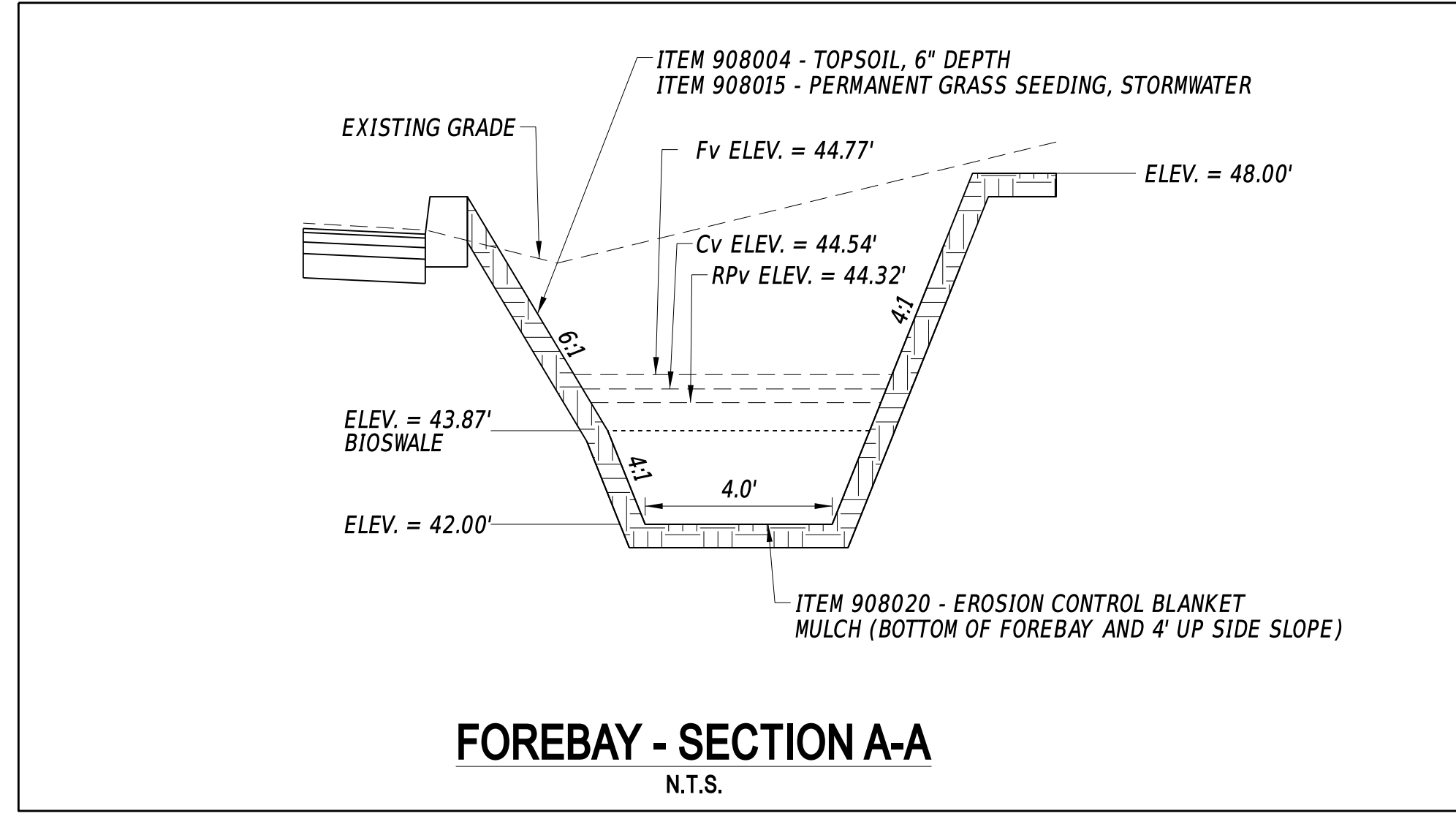
AS-BUILT DRAWINGS SHALL BE COMPLETED BY THE CONTRACTOR AND CERTIFIED BY A DELAWARE PLS BEFORE THE DELDOT INITIAL INSPECTION DATE. THESE DRAWINGS SHALL BE SENT TO THE STORMWATER ENGINEER FOR VERIFICATION. PAID FOR UNDER ITEM 910008. AS-BUILT DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

- GENERAL TOPOGRAPHY OF THE WHOLE FACILITY AT 1-FOOT CONTOURS INCLUDING FOREBAYS AND TOP/TOE OF EMBANKMENT.
- INVERTS OF ALL PIPES AND SWALES THAT INFLOW TO THE BIOSWALE.
- OUTLINE OF ALL RIPRAP AND SPOT ELEVATIONS ON TOP OF THE RIPRAP.
- PRIMARY OUTFLOW CHANNEL. FOR A PRIMARY OUTFLOW CHANNEL/SWALE, SHOW AT MINIMUM THREE CROSS-SECTIONS OF EQUAL DISTANCE APART AT 50' DOWNSTREAM ALONG THE SLOPE.

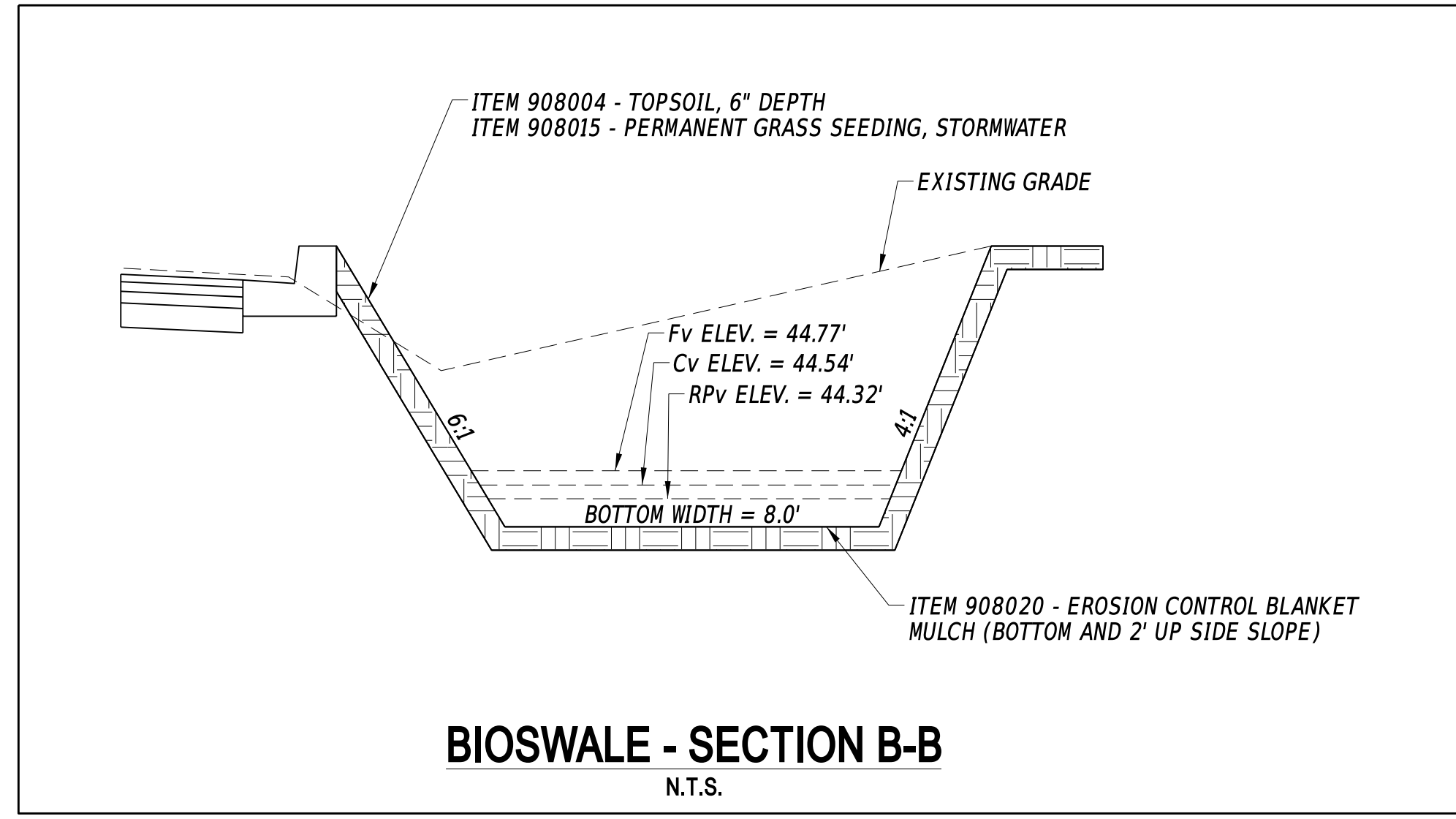
DRAINAGE AREA TO FACILITY: 1.16 AC.  
MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY FOR R<sub>PV</sub> STORM EVENT BY BIOFILTRATION  
WATER QUANTITY FOR C<sub>V</sub> AND F<sub>V</sub> STORM EVENTS

<b>(1143) BIOSWALE SPILLWAY PROFILE</b>			
IDENTIFIER	STATION	NORTHING	EASTING
1 POB	0+00.00	434262.944	605460.086
2	0+46.03	434305.074	605443.838
3 POE	3+51.56	434572.126	605297.498

NOTE:  
1. SEE GRADES AND GEOMETRICS FOR BIOSWALE LAYOUT OFFSETS AND ELEVATIONS.



**FOREBAY - SECTION A-A**  
N.T.S.



**BIOSWALE - SECTION B-B**  
N.T.S.

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ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**STORMWATER  
MANAGEMENT PLAN**

SECTION	CEN
SHEET NO.	28

# ENVIRONMENTAL COMPLIANCE NOTES

WETLANDS DELINEATED BY CENTURY ENGINEERING IN MAY 2021 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987)".

ORIGINAL SHEET PREPARED BY CENTURY ENGINEERING ON 09-28-2021. SHEET LAST UPDATED ON 8-21-2024.

1. GENERAL NOTES:
  - A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
  - B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, CONTACT THE ENVIRONMENTAL STUDIES SECTION AT (302) 760-2264 OR DOT\_ENVIRONMENTALSTUDIES@DELAWARE.GOV TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
  - C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.
2. NATURAL RESOURCE ISSUES:
  - A. PERMIT REQUIREMENTS/APPROVALS \*:
    - U.S. ARMY CORPS OF ENGINEERS (COE): NATIONWIDE PERMIT NWP 14 WITH PRECONSTRUCTION NOTIFICATION (PCN) \*\*
    - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): DNREC §7217. SPECIAL EXEMPTION (a)
    - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): : ISSUED NWP 14
  - \* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THESE APPROVALS.
  - \*\* THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
  - B. CONSTRUCTION RESTRICTIONS:
    - FISHERIES - NONE
    - ENDANGERED SPECIES - NONE
    - MIGRATORY BIRDS - NONE
3. CULTURAL RESOURCE ISSUES:
  - A. NONE
4. PROTECTION OF RESOURCES:
  - A. KEEP CLEARING IN WETLAND AREAS TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. SUPPORT ALL EQUIPMENT TRAVERSING WETLANDS AND SUBAQUEOUS LAND ON MATS. PAYMENT FOR MATS WILL BE MADE UNDER ITEM 621500 - TEMPORARY TIMBER MAT. IN WETLAND AREAS THAT ARE CLEARED, NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION IS PERMITTED. CUT VEGETATION FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT). RESTORE TEMPORARILY DISTURBED WETLAND AREAS TO GRADE AND SEED WITH ITEM 908017 - TEMPORARY GRASS SEEDING (ANNUAL RYEGRASS).
  - B. USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER/ WETLANDS ARE BEING IMPACTED (AS SHOWN ON ENVIRONMENTAL COMPLIANCE SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LIMIT OF CONSTRUCTION (AS SHOWN ON CONSTRUCTION PLAN SHEETS). ANY CONTRACTOR ACCESS BEYOND THE LIMIT OF CONSTRUCTION IS STRICTLY PROHIBITED.
  - C. USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. REMOVE SANDBAGS AND CFLS (AND CONTENTS) IN THEIR ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFLS USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905002 - REINFORCED SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION AT (302) 760-2259 OR DOT\_ENVIRONMENTALSTUDIES@DELAWARE.GOV CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.
  - D. CLEARLY MARK ALL TREES TO BE REMOVED WITH PAINT PRIOR TO THE EROSION AND SEDIMENT CONTROL MEETING.
5. STREAM RESTORATION AND RIPRAP TREATMENT:
  - A. FOLLOW THE SPECIAL PROVISION FOR ITEM 707500 - CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFFSITE MATERIAL. IF SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL MUST CONFORM TO THE REQUIREMENTS OF ITEM 707500 - CHANNEL BED FILL. RECESS ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) ONE FOOT BELOW STREAM BED ELEVATION AND CHOKE WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH SPECIFIED MATERIAL. COVER THE RIPRAP WITH A MINIMUM OF 12" CHANNEL BED FILL. MATCH THE FINAL CHANNEL ELEVATIONS WITH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS WILL BE AS NOTED ON THE PLANS. ALL COSTS PAID FOR UNDER ITEM 707500 - CHANNEL BED FILL.
  - B. RESTORE OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) TO EXISTING CONDITIONS. FILL ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES WITH CHANNEL BED FILL. PAYMENT UNDER ITEM 707500 - CHANNEL BED FILL.
  - C. WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES ARE REMOVED AND THE STREAM RETURNS TO ITS NATURAL FLOW CONDITIONS, THE FLOW MUST REMAIN ABOVE GROUND AND ABOVE THE RIPRAP (I.E. THE FLOW CANNOT BE "LOST" IN THE RIPRAP OR BENEATH THE STRUCTURE). IF THIS IS NOT ACHIEVED, THE CONTRACTOR WILL BE REQUIRED TO TAKE CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
  - D. CHOKE ALL RIPRAP ON THE STREAM BANK, OUTSIDE THE CHANNEL BED, WITH DELAWARE #57 STONE. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. PLACE AN ADDITIONAL 6-INCH TOPSOIL LAYER ON TOP OF THE RIPRAP. SLOPE SEEDING WILL BE DONE WITH ITEM 908019 - STREAMBANK SEED MIX, SEEDING. FOLLOWING THE SEEDING OPERATION, INSTALL ITEM 908020 - EROSION CONTROL BLANKET (ECB) MULCH, OR OTHER BLANKET AS SHOWN ON THE PLANS. ECB AT TOE OF SLOPE CAN BE EITHER TRENCHED IN OR STAPLED AT 6" ON CENTER. COMPLETE ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING AND MULCHING PRIOR TO ANY RAIN EVENT. DELAWARE #57 STONE IS INCIDENTAL TO THE RIPRAP ITEM. ALL OTHER ITEMS WILL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.
  - E. THE TOPSOIL/SEED/MULCH CAN BE PLACED BEFORE OR AFTER THE REMOVAL OF THE STREAM DIVERSION. IF THE PLACEMENT OCCURS AFTER STREAM DIVERSION REMOVAL, USE A TURBIDITY CURTAIN TO MINIMIZE IN-STREAM SEDIMENTATION. COSTS FOR TURBIDITY CURTAIN IS INCIDENTAL TO ITEM 909002 - SANDBAG DIVERSION.

WETLAND CREATION AREA SCHEDULE				
ID	CREATION	AREA (SF)	AREA (AC)	VOLUME (CY)
3-01	WETLAND	25946.67	0.5957	N/A
TOTAL WETLAND CREATION AREAS		25946.67	0.5957	N/A

PERMANENT OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
03-01	RIPRAP PLACEMENT	26.64	0.0006	N/A	USACE/DNREC
TOTAL PERMANENT OPEN WATER IMPACTS		26.64	0.0006	N/A	USACE/DNREC

PERMANENT WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W1-01	REGRADE DRAINAGE SWALE	2977.48	0.0684	N/A	USACE
W2-01	REGRADE DRAINAGE SWALE	885.46	0.0203	N/A	USACE
W2-02	REGRADE DRAINAGE SWALE	6593.29	0.1514	N/A	USACE
W2-03	REGRADE DRAINAGE SWALE	8926.04	0.2049	N/A	USACE
W3-01	REGRADE DRAINAGE SWALE	321.50	0.0074	N/A	USACE
W3-02	WETLAND OUTFALL SWALE	278.75	0.0064	N/A	USACE
W3-03	RIPRAP PLACEMENT	8.92	0.0002	0.3854	USACE
TOTAL PERMANENT WETLAND IMPACT AREAS		19991.44	0.4590	0.3854	USACE

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
T1-01	WORK AREA / E&S CONTROLS	195.78	0.0045	N/A	USACE
T2-01	WORK AREA / E&S CONTROLS	20.69	0.0005	N/A	USACE
T2-02	WORK AREA / E&S CONTROLS	1509.78	0.0347	N/A	USACE
T2-03	WORK AREA / E&S CONTROLS	1756.97	0.0403	N/A	USACE
T3-01	WORK AREA / E&S CONTROLS	976.79	0.0224	N/A	USACE
T3-02	WORK AREA	356.25	0.0082	N/A	USACE
T3-03	WORK AREA	352.94	0.0081	N/A	USACE
TOTAL TEMPORARY WETLAND IMPACT AREAS		5169.20	0.1187	N/A	USACE

ADDENDA / REVISIONS

NOT TO SCALE

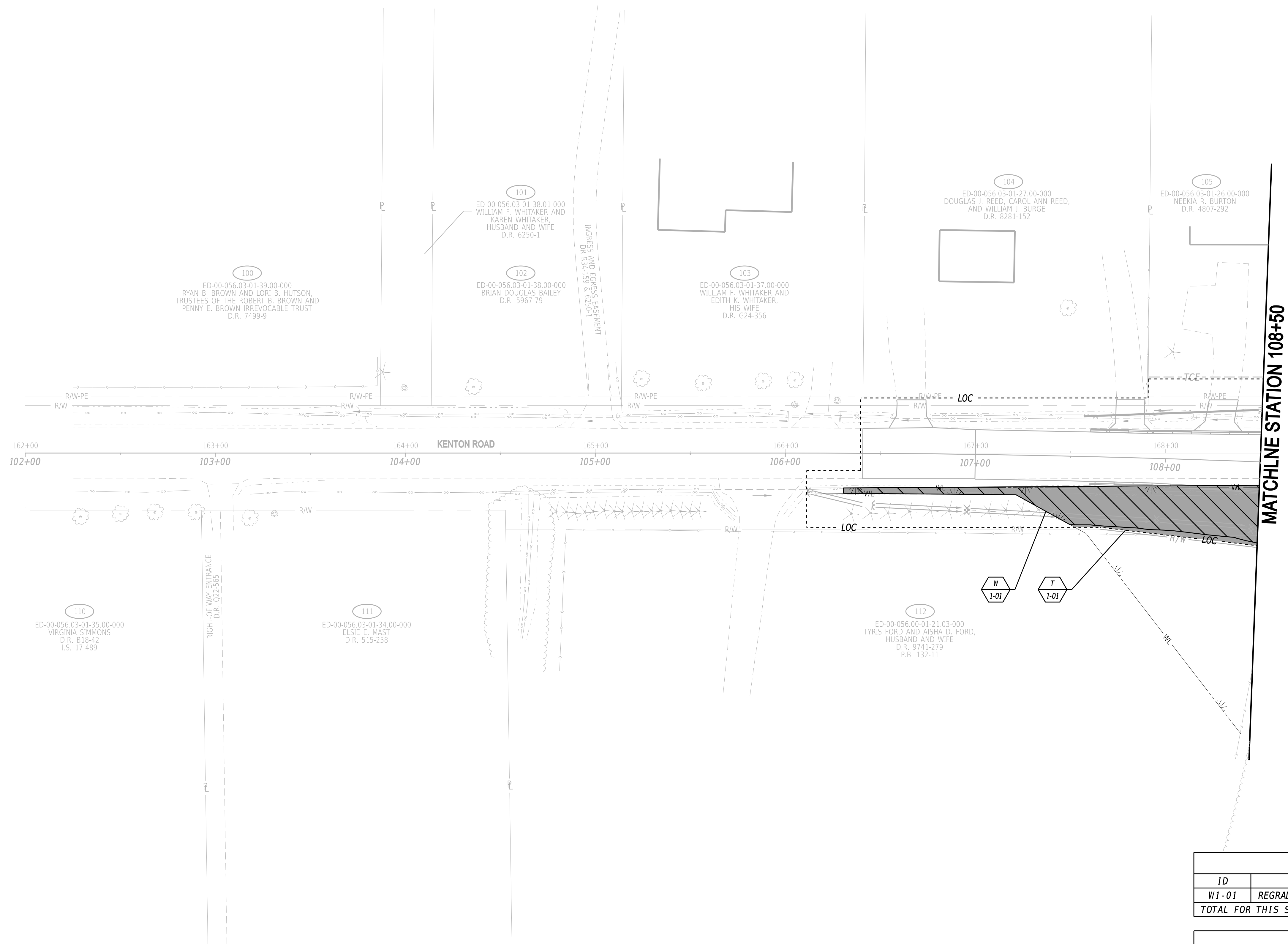
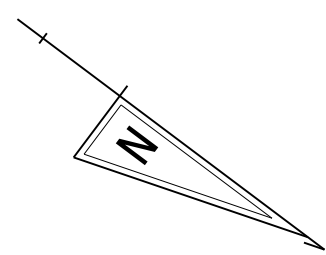
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**ENVIRONMENTAL  
COMPLIANCE PLAN**

SECTION  
CEN  
SHEET NO.  
29

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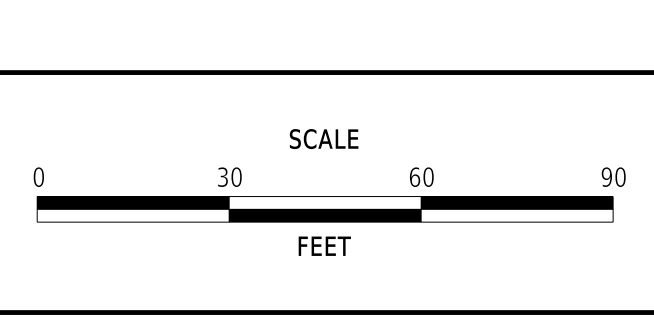
LEGEND	
	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
	WL - WETLAND BOUNDARY
	OHWWL - ORDINARY HIGH WATER / WETLAND
	PWL - PROPOSED WETLAND BOUNDARY
	IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER
O	OPEN WATER IMPACT
T	TEMPORARY IMPACT
W	WETLAND IMPACT

PERMANENT WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W1-01	REGRADE DRAINAGE SWALE	2977.48	0.0684	N/A	USACE
TOTAL FOR THIS SHEET		2977.48	0.0684	N/A	USACE

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
T1-01	WORK AREA / E&S CONTROLS	195.78	0.0045	N/A	USACE
TOTAL FOR THIS SHEET		195.78	0.0045	N/A	USACE

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ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

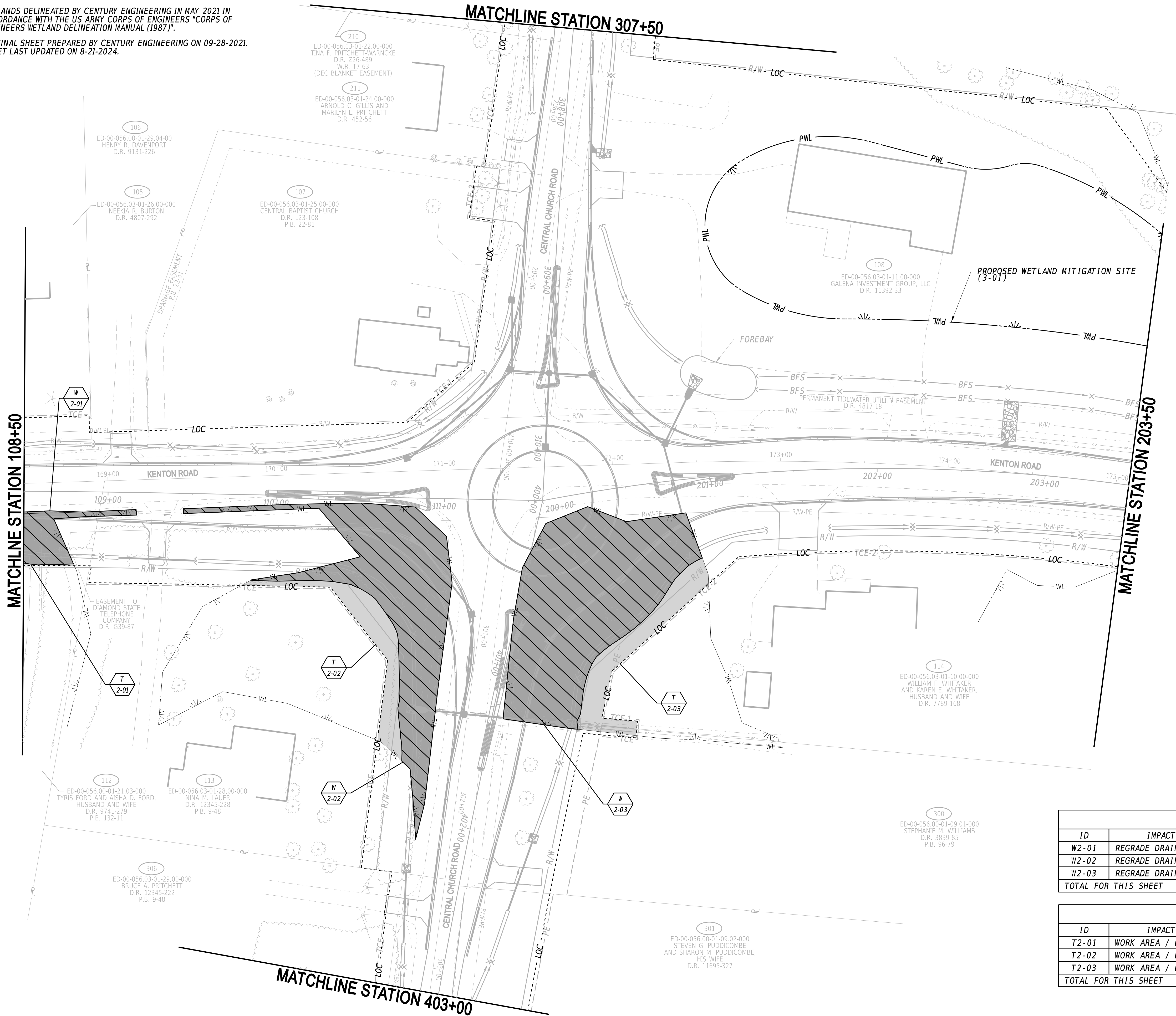
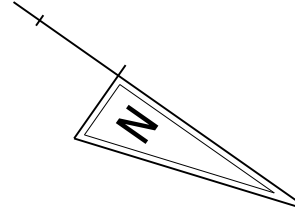
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

ENVIRONMENTAL COMPLIANCE PLAN		SECTION
		CEN
ENVIRONMENTAL COMPLIANCE PLAN		SHEET NO.
		30

**EC-01**

WETLANDS DELINEATED BY CENTURY ENGINEERING IN MAY, 2021 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987)".

ORIGINAL SHEET PREPARED BY CENTURY ENGINEERING ON 09-28-2021. SHEET LAST UPDATED ON 8-21-2024.



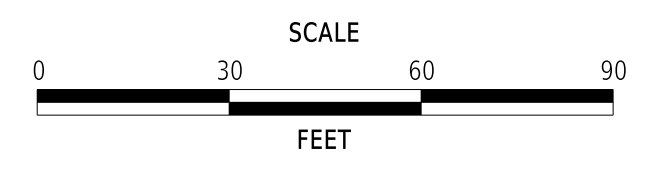
LEGEND	
	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
	WL - WETLAND BOUNDARY
	OHWWL - ORDINARY HIGH WATER / WETLAND
	PWL - PROPOSED WETLAND BOUNDARY
	IMPACT AREA TYPE ID. (SEE BELOW)
	IMPACT AREA ID. AND/OR NUMBER
O	OPEN WATER IMPACT
T	TEMPORARY IMPACT
W	WETLAND IMPACT

PERMANENT WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W2-01	REGRADE DRAINAGE SWALE	885.46	0.0203	N/A	USACE
W2-02	REGRADE DRAINAGE SWALE	6593.29	0.1514	N/A	USACE
W2-03	REGRADE DRAINAGE SWALE	8926.04	0.2049	N/A	USACE
TOTAL FOR THIS SHEET		16404.79	0.3766	N/A	USACE

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
T2-01	WORK AREA / E&S CONTROLS	20.69	0.0005	N/A	USACE
T2-02	WORK AREA / E&S CONTROLS	1509.78	0.0347	N/A	USACE
T2-03	WORK AREA / E&S CONTROLS	1756.97	0.0403	N/A	USACE
TOTAL FOR THIS SHEET		3287.44	0.0755	N/A	USACE

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ADDENDA / REVISIONS

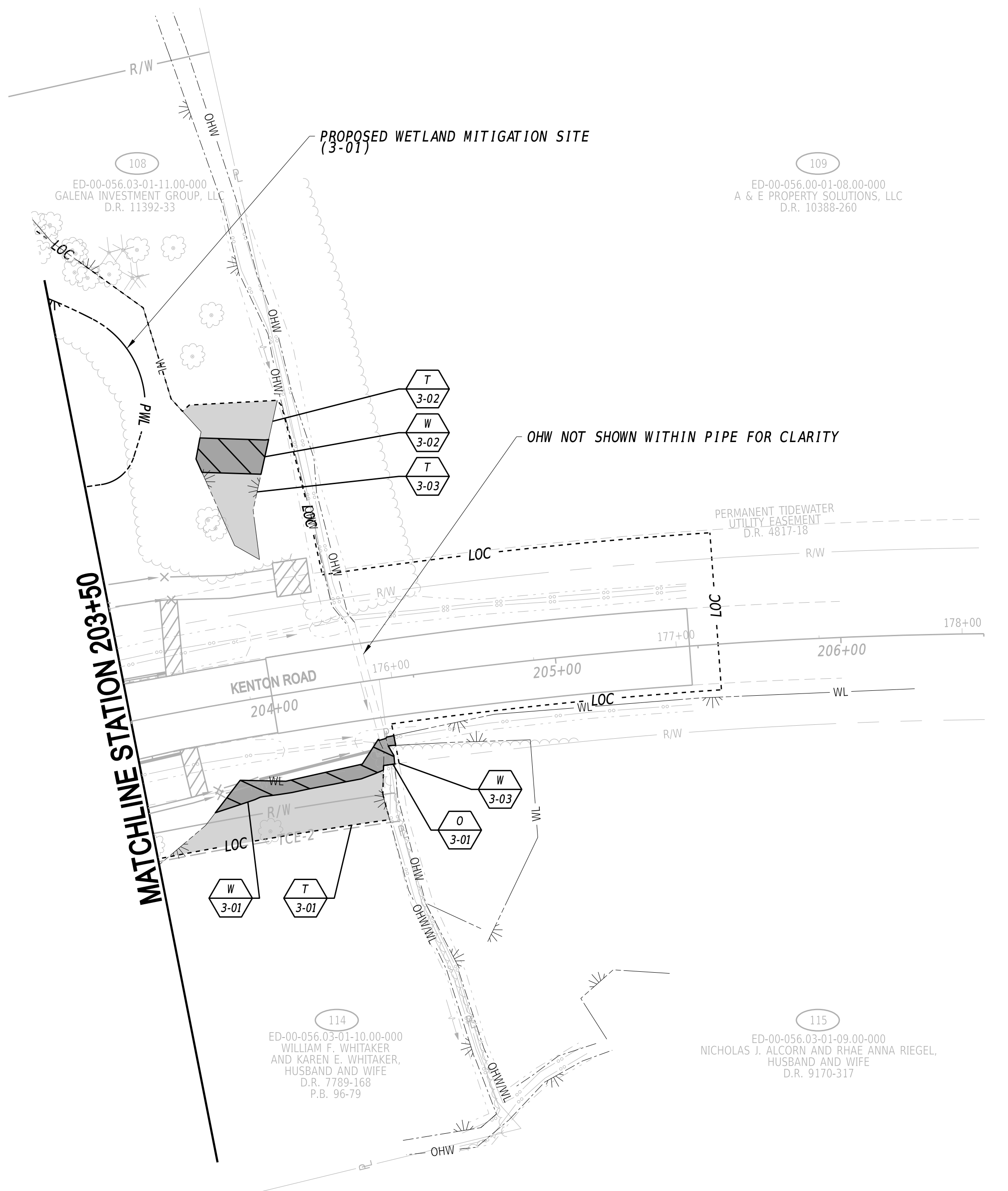
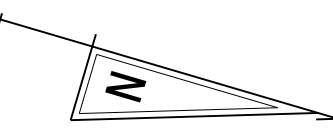


**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**ENVIRONMENTAL COMPLIANCE PLAN**

EC-02
SECTION
CEN
SHEET NO.
31



LEGEND	
	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
	WL - WETLAND BOUNDARY
	OHWWL - ORDINARY HIGH WATER / WETLAND
	PWL - PROPOSED WETLAND BOUNDARY
	IMPACT AREA TYPE ID. (SEE BELOW)
	IMPACT AREA ID. AND/OR NUMBER
O	OPEN WATER IMPACT
T	TEMPORARY IMPACT
W	WETLAND IMPACT

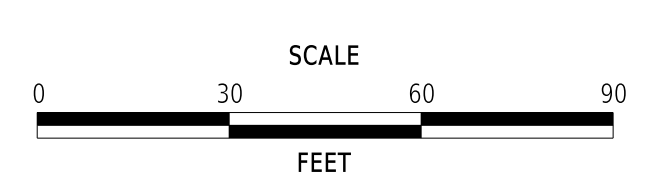
PERMANENT OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
03-01	RIPRAP PLACEMENT	26.64	0.0006	N/A	USACE/DNREC
TOTAL FOR THIS SHEET		26.64	0.0006	N/A	USACE/DNREC

PERMANENT WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
W3-01	REGRADE DRAINAGE SWALE	321.50	0.0074	N/A	USACE
W3-02	WETLAND OUTFALL SWALE	278.75	0.0064	N/A	USACE
W3-03	RIPRAP PLACEMENT	8.92	0.0002	0.3854	USACE
TOTAL FOR THIS SHEET		609.17	0.0140	0.3854	USACE

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
T3-01	WORK AREA / E&S CONTROLS	976.79	0.0224	N/A	USACE
T3-02	WORK AREA	356.25	0.0082	N/A	USACE
T3-03	WORK AREA	352.94	0.0081	N/A	USACE
TOTAL FOR THIS SHEET		1685.98	0.0387	N/A	USACE

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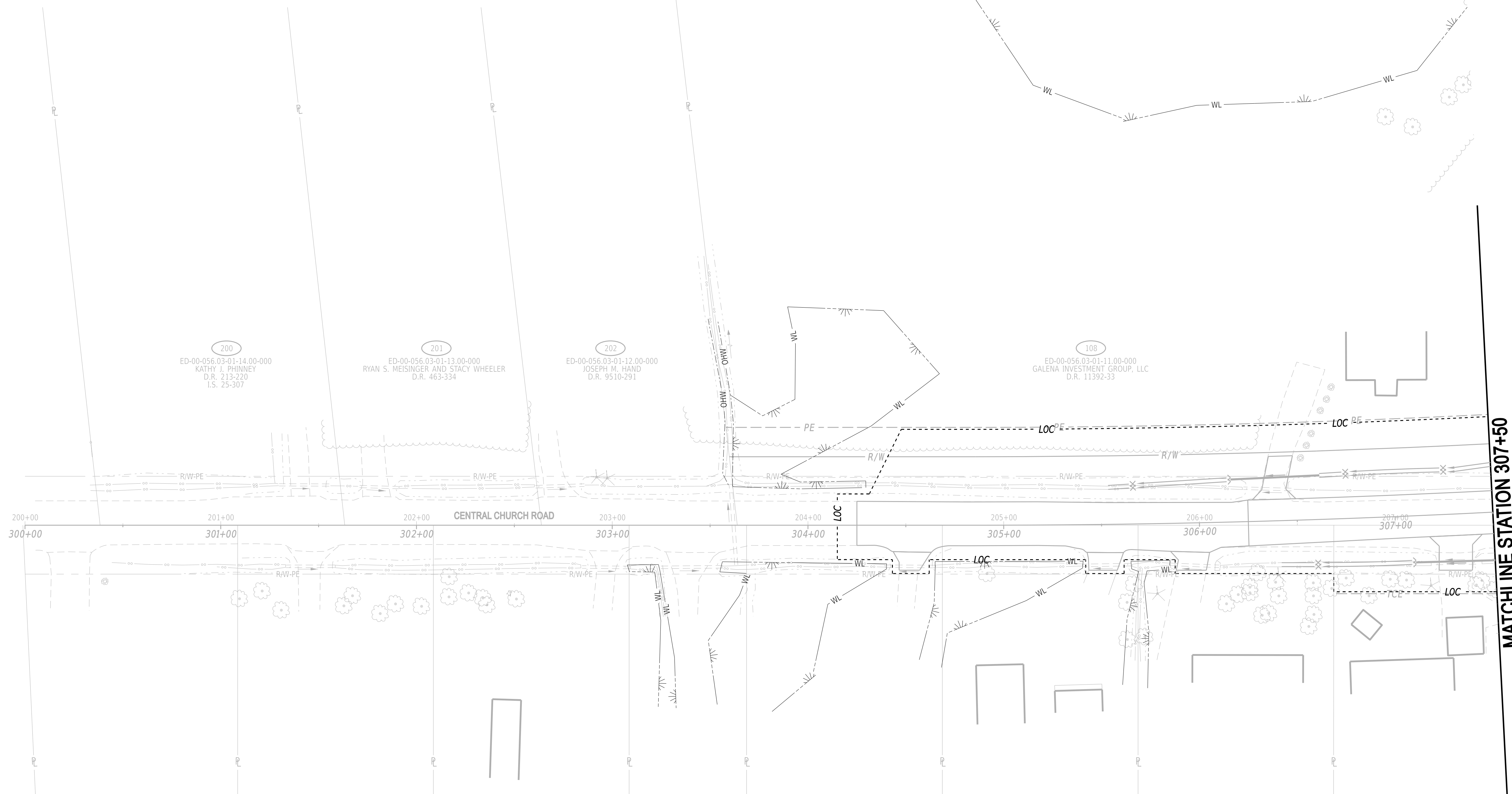
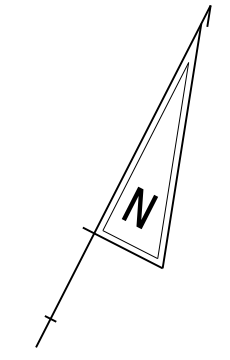
ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>ENVIRONMENTAL COMPLIANCE PLAN</b>	SECTION
	CEN
	SHEET NO.
	32



**LEGEND**

- TEMPORARY IMPACT AREA**
- PERMANENT IMPACT AREA**
- WL - **WETLAND BOUNDARY**
- OHW/WL - **ORDINARY HIGH WATER / WETLAND**
- PWL - **PROPOSED WETLAND BOUNDARY**
- IMPACT AREA TYPE ID. (SEE BELOW)**  
**IMPACT AREA ID. AND/OR NUMBER**
- O = OPEN WATER IMPACT**
- T = TEMPORARY IMPACT**
- W = WETLAND IMPACT**

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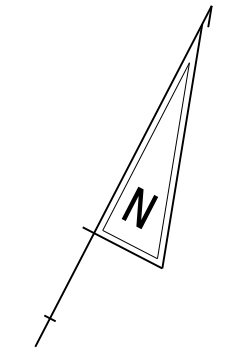
ADDENDA / REVISIONS	
	SCALE
	0      30      60      90
	FEET

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>ENVIRONMENTAL COMPLIANCE PLAN</b>
--

<b>EC-04</b>
SECTION
CEN
SHEET NO.
33



MATCHLINE STATION 403+00

301  
ED-00-056.00-01-09.02-000  
STEVEN G. PUDDICOMBE  
AND SHARON M. PUDDICOMBE,  
HIS WIFE  
D.R. 11695-327

302  
ED-00-056.00-01-09.03-000  
STEVEN G. PUDDICOMBE  
AND SHARON M. PUDDICOMBE  
D.R. 8903-171

303  
ED-00-056.00-01-09.06-000  
DIONNE WICKS  
AND WILLIAM M. WICKS  
D.R. 9575-189

304  
ED-00-056.00-01-09.05-000  
LONNIE L. ROBERTSON  
D.R. 403-350

305  
ED-00-056.00-01-09.11-000  
DENSE PRITCHETT (LIFE ESTATE)  
RONALD D. PRITCHETT JR.  
RANADA PRITCHETT,  
RANDALL PRITCHETT,  
KYLE PRITCHETT AND  
ERIC PRITCHETT  
D.R. 4826-32  
W.R. 14587

312  
ED-00-056.00-01-09.10-000  
BEVERLY A. HURD AND  
EUGENE V. STARTT  
D.R. K45-213  
I.S. 0020-0473

306  
ED-00-056.03-01-29.00-000  
BRUCE A. PRITCHETT  
D.R. 12345-222  
P.B. 9-48

307  
ED-00-056.03-01-30.00-000  
BRUCE A. PRITCHETT  
D.R. 12345-225  
P.B. 9-48

308  
ED-00-056.03-01-31.00-000  
KEVIN I. SHACKLEFORD  
D.R. 11488-117  
P.B. 9-48

309  
ED-00-056.03-01-32.00-000  
KEVIN SHACKLEFORD  
D.R. 9552-218  
P.B. 9-48

310  
ED-00-056.03-01-32.01-000  
KENNETH C. JOHNSON AND CHRISTINE JOHNSON  
D.R. 480-188  
P.B. 9-48

311  
ED-00-056.03-01-33.00-000  
JOHN H. HUGHES  
D.R. 039-279  
P.B. 9-48

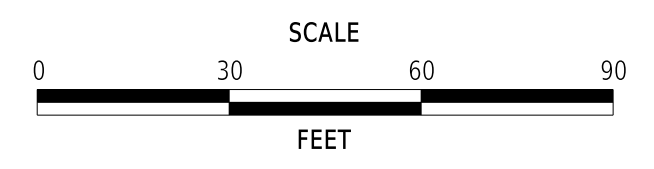
CENTRAL CHURCH ROAD

THERE ARE NO ENVIRONMENTAL RESOURCES LOCATED WITHIN THIS SHEET.

**LEGEND**

	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
	WL - WETLAND BOUNDARY
	OHWWL - ORDINARY HIGH WATER / WETLAND
	PWL - PROPOSED WETLAND BOUNDARY
	IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER
O	= OPEN WATER IMPACT
T	= TEMPORARY IMPACT
W	= WETLAND IMPACT

ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**ENVIRONMENTAL  
COMPLIANCE PLAN**

<b>EC-05</b>
SECTION
CEN
SHEET NO.
34

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# GENERAL MOT NOTES

1. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
( X )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

2. ALL NECESSARY SIGNS, PAVEMENT MARKINGS AND ROADSIDE APPURTENANCES SHALL BE INSTALLED PRIOR TO THE OPENING/REOPENING OF A ROADWAY OR RAMP. A WALKTHROUGH WITH THE ENGINEER, TRAFFIC SAFETY, TRAFFIC CONSTRUCTION AND OTHER PERSONNEL SHALL OCCUR NO LESS THAN 48 HOURS PRIOR TO THE OPENING/REOPENING OF ANY ROAD OR RAMP.

3. THE USE OF MILLINGS AND GABC IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMPS FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POT HOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE OR TAPER MILL AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS.

MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE OR EDGE DROP-OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

- A. DRIVEWAYS.
- B. ENTRANCES.
- C. LOW VOLUME ENTRANCES AND ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS).
- D. EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY (LANE, SHOULDER OR TURN LANE) AND THE PROPOSED ROAD CONSTRUCTION.
- E. EDGE OF ROADWAY DROP-OFF.

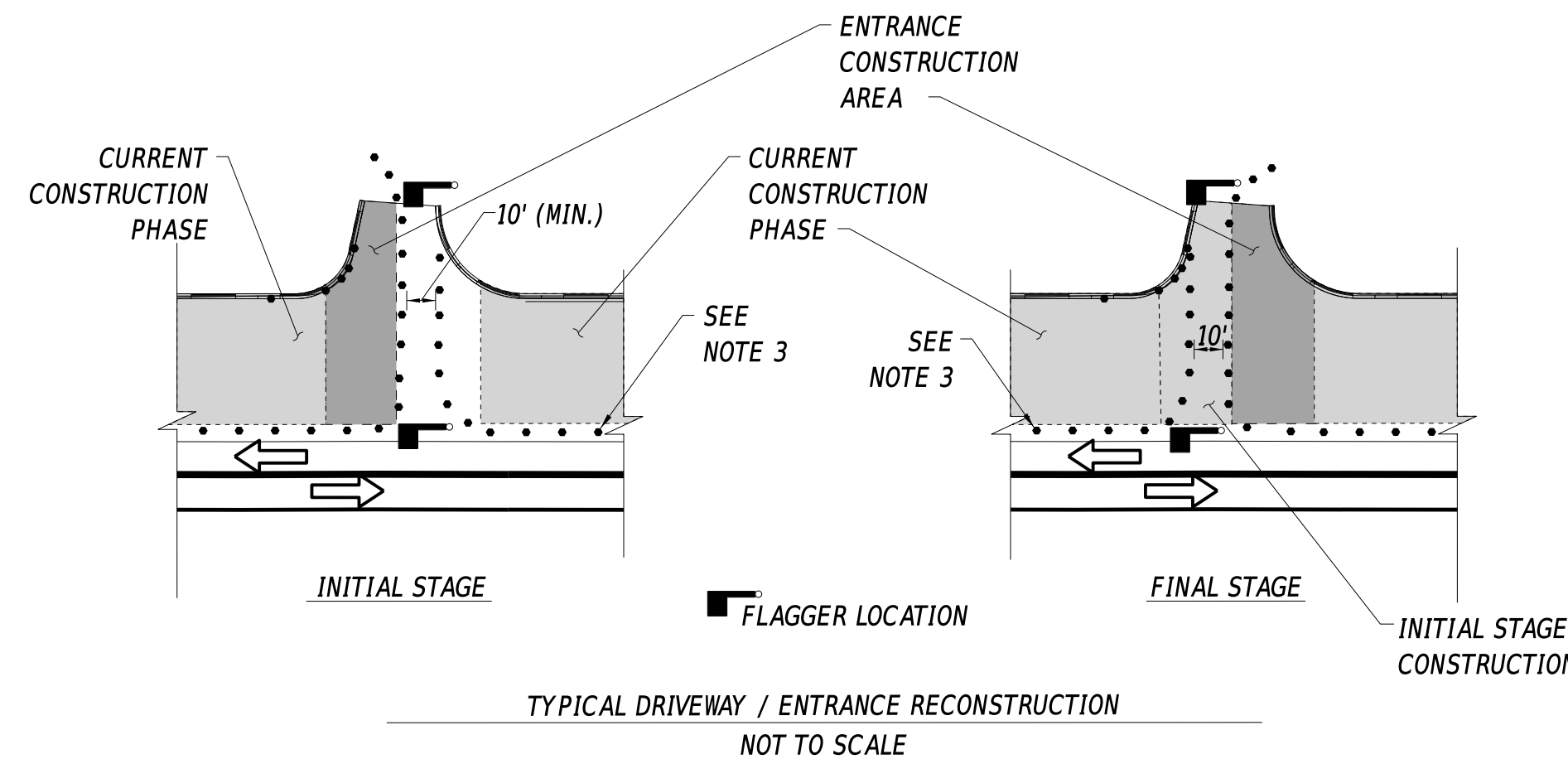
GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR THE ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM 801000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 OF THE DE MUTCD AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT OR REMOVED, AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM.

VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DE MUTCD.

4. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A MODIFIED TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS, CONSTRUCTION PHASING, OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.

5. CONSTRUCTION ACTIVITY FOR THIS PROJECT SHALL BE RESTRICTED TO THE HOURS OF 7:00 AM TO 7:00 PM. LANE RESTRICTIONS SHALL FOLLOW THE ALLOWABLE LANE CLOSURE HOURS TABLE.

6. THE CONTRACTOR SHALL COMPLETE ALL WORK WITHIN THE CURRENT PHASE PRIOR TO PROCEEDING TO THE NEXT PHASE. THE VEHICULAR DETOUR CANNOT BE REMOVED UNTIL ALL ITEMS THAT REQUIRE LANE CLOSURES ARE COMPLETE OR AS DIRECTED BY THE ENGINEER IN THE FIELD.



### NOTES:

- THIS DETAIL PROVIDES THE PROPER TRAFFIC CONTROL DEVICES AT DRIVEWAYS AND ENTRANCES THAT ARE TO BE BUILT IN HALF-SECTION UNDER FLAGGER CONTROL. APPLICATION OF THIS DETAIL SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL DEVICES AT ENTRANCES SHALL BE RESET TO MAIN PHASE AT END OF EACH WORKING DAY.
- CHANNELIZATION THROUGH ENTRANCE AREA SHALL BE ACCOMPLISHED WITH DRUMS PLACED AT 10' BETWEEN THE EDGES OF THE DRUMS IMMEDIATELY ADJACENT TO THE TRAVELED WAY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DRUM LAYOUT SHALL ACCOMMODATE LARGEST DESIGN VEHICLE EXPECTED TO USE ENTRANCE.
- TRAFFIC CONTROL DEVICES ALONG MAINLINE ROADWAY SHALL BE AS SHOWN ON CONSTRUCTION PHASING PLANS.
- DEPENDING ON TRAFFIC VOLUME UTILIZING ENTRANCE AND OTHER SITE-SPECIFIC CONDITIONS, THE NUMBER OF FLAGGERS USED DURING ENTRANCE CONSTRUCTION MAY BE REDUCED FROM 2 TO 1, SUBJECT TO APPROVAL OF ENGINEER.

ALLOWABLE LANE CLOSURE HOURS																									
KENTON ROAD																									
	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									
CENTRAL CHURCH ROAD																									
	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	
SUNDAY																									
MONDAY																									
TUESDAY																									
WEDNESDAY																									
THURSDAY																									
FRIDAY																									
SATURDAY																									

\* NIGHT WORK IS NOT PERMITTED FOR THIS PROJECT.

	ONE LANE CLOSURE
	ALL LANES OPEN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	CONSTRUCTED AREA - PRIOR PHASE
	PAVEMENT REMOVAL - ACTIVE PHASE

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

CONSTRUCTION PHASING,  
M.O.T., AND EROSION  
CONTROL PLAN

SECTION  
CEN  
SHEET NO.  
35

# EROSION AND SEDIMENT CONTROL NOTES

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( X ) MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 IF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

2. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. PLAN APPROVAL IS VALID FOR A FIVE YEAR PERIOD BEGINNING ON THE DATE OF THE STORMWATER ENGINEER'S SIGNATURE. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, NOTIFY THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION. ANY DEVIATIONS TO THE SWPPP NEED APPROVAL FROM THE ENGINEER.

<i>Steven Sisson</i>	10/15/2024
DELDOT STORMWATER ENGINEER	DATE
"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THESE PLANS MEET THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS AND THAT ALL CLEARING, GRADING, AND CONSTRUCTION WILL BE ACCOMPLISHED PURSUANT TO THE PLAN."	

AMOUNT OF DISTURBED AREA FOR THE PROJECT	5.28 AC
ADDED IMPERVIOUS FOR THE PROJECT	0.33 AC
HUC-10 WATERSHED	ST. JONES RIVER

- ASSIGN A RESPONSIBLE PERSON TO BE ON SITE DURING ALL EARTH DISTURBING ACTIVITIES AND BE AN ACTIVE DNREC BLUE CARD HOLDER AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS (DSSR). BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- FILE AS A CO-PERMITTEE IN ACCORDANCE WITH SECTION 901 OF THE STANDARD SPECIFICATIONS. POSTING AND MAINTENANCE OF THE NOI PERMIT COVERAGE IS INCIDENTAL TO THE CONTRACT.
- REVISIONS TO THE SWPPP OR ENVIRONMENTAL COMPLIANCE PLAN SHEET(S) SHALL BE APPROVED PRIOR TO INITIATION IN THE FIELD. THE ENGINEER IS RESPONSIBLE FOR APPROVING ALL REDLINES AND REVISIONS TO THE SWPPP.
- IMPLEMENTING AND MAINTAINING POLLUTION PREVENTION DEVICES AND PRACTICES IS REQUIRED UNDER THE DELAWARE CONSTRUCTION GENERAL PERMIT AND THE DSSR AND ARE INCIDENTAL TO THE CONTRACT.
- A SOIL STOCKPILE, AS DESCRIBED IN DELDOT STANDARD SPECIFICATIONS AND DEFINED IN THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK, IS ANY LOCATION WITHIN THE LIMITS OF CONSTRUCTION WHERE A TEMPORARY DEPOSIT OF EXCAVATED SOIL IS BEING RESERVED FOR FUTURE USE. A SOIL STOCKPILE SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A STORM DRAIN INLET, OPEN CHANNEL, WETLAND, OR WATERBODY. A REQUEST MAY BE MADE MAY BE MADE TO THE ENGINEER TO PERMIT LOCATING A SOIL STOCKPILE LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL. UPON APPROVAL, IF ANY PART OF A SOIL STOCKPILE IS LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL, INSTALL A SUPER SILT FENCE PERIMETER TO PROTECT THE SOIL STOCKPILE. THE SUPER SILT FENCE MUST BE CONSTRUCTED IN ACCORDANCE WITH 905.3.B.3 OF THE STANDARD SPECIFICATIONS. THE COST FOR INSTALLATION AND MAINTENANCE OF THE STOCKPILE SUPER SILT FENCE IS INCIDENTAL TO THE CONTRACT.
- PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF FROM LEAVING THE SITE. CHECK PERIMETER CONTROLS DAILY AND ADJUST OR REPAIR TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. REMOVE ACCUMULATED SEDIMENT BEFORE IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE ENGINEER.
- ANY SEDIMENT LADEN DISCHARGE LEAVING THE LIMIT OF CONSTRUCTION SHALL IMMEDIATELY BE ADDRESSED THROUGH BEST AVAILABLE TECHNOLOGIES TO CONTROL ANY FURTHER SEDIMENT LADEN DISCHARGE. REMEDIATION MAY INCLUDE STANDARD E&S PRACTICES OR OTHER METHODS AS APPROVED BY THE ENGINEER.
- ALL TEMPORARY CONCENTRATED FLOW AREAS INCLUDING CHANNEL SIDE SLOPES SHALL HAVE EROSION CONTROL BLANKET MULCH AS DIRECTED BY THE ENGINEER. INSTALL WITHIN SEVEN CALENDAR DAYS UPON CONSTRUCTION INITIATION. A TEMPORARY CONCENTRATED FLOW AREA MAY INCLUDE DITCHES, SWALES, BERMS, CONCENTRATED RUNOFF AREAS, ETC.
- FOR ANY PERMANENT STORMWATER MANAGEMENT FACILITY, FOLLOW THAT FACILITY'S SEQUENCE OF CONSTRUCTION AS NOTED ON THE STORMWATER MANAGEMENT SHEETS.

- NO MORE THAN 20 ACRES MAY BE DISTURBED AT ANY TIME. DISTURBANCE OF A SECOND 20 ACRE SECTION MAY NOT PROCEED UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE FIRST 20 ACRE SECTION IS ACCOMPLISHED AS APPROVED BY THE ENGINEER.
- MAINTAIN POSITIVE DRAINAGE IN EXISTING AND PROPOSED DRAINAGE SYSTEMS BY EXECUTING CONSTRUCTION, CLEANING EXISTING DRAINAGE SYSTEMS, AND PROPERLY DISPOSING OF SEDIMENT THROUGHOUT THE DURATION OF THE PROJECT.
- ALL EXISTING INLETS AND PIPES WITHIN THE PROJECT LIMITS TO REMAIN SHALL BE CLEANED OUT. ALL COSTS ARE INCIDENTAL TO ITEM 201000.

EROSION & SEDIMENT CONTROL	
	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

ADDENDA / REVISIONS

NOT TO SCALE

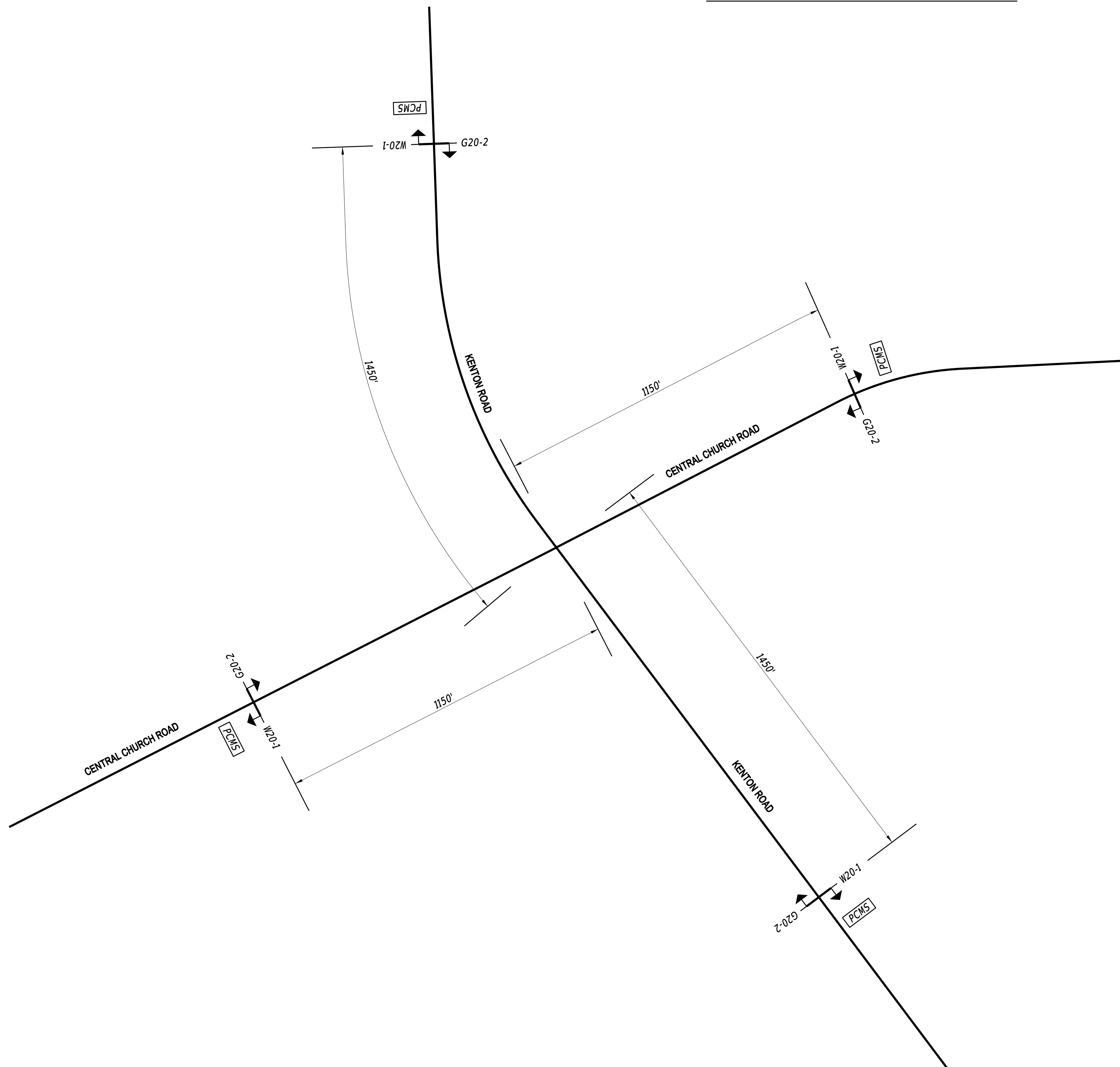
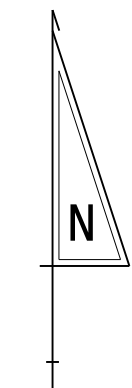
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**CONSTRUCTION PHASING,  
M.O.T., AND EROSION  
CONTROL PLAN**

SECTION
CEN
SHEET NO.
36

# ADVANCED WARNING SIGNS



NOTE: THE CONTRACTOR SHALL LAYOUT SIGNS FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.

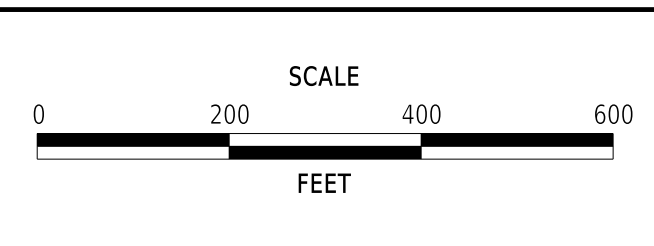
		<b>PCMS</b> PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS	
		<b>10 DAYS PRIOR TO CONSTRUCTION:</b> ROAD WORK STARTING XX/XX/XX	<b>5 DAYS AFTER CONSTRUCTION HAS BEGUN:</b> ROAD WORK AHEAD  USE CAUTION

NOTE: ALL WARNING SIGNS PAID UNDER ITEM 810001.

NOTES:  
 1. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 10 DAYS PRIOR TO AND 5 DAYS AFTER CONSTRUCTION BEGINS.  
 2. MESSAGE BOARD MESSAGE AND LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.

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ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

<b>CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN</b>	SECTION CEN
	SHEET NO. 37

## GENERAL NOTES

- UTILIZE TA-10 AND TA-27 FROM THE DE MUTCD AS NECESSARY FOR CONSTRUCTION.
- ALL VERTICAL DIFFERENCES SHALL BE ADDRESSED PER TABLE 6G-1 IN THE DE MUTCD DURING ALL PHASES OF CONSTRUCTION.
- TEMPORARY WARNING SIGNS DEPICTED WITHIN THE PHASING PLANS ARE SHOWN TO ASSIST IN CLARIFYING THE INTENT OF THE PHASED CONSTRUCTION. ADDITIONAL SIGNING AND/OR STRIPING MAY BE REQUIRED TO COMPLY WITH THE DE MUTCD.
- THE LOCATION AND MESSAGE OF THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE COORDINATED WITH AND APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.
- THE INLET SEDIMENT CONTROLS FOR DRAINAGE STRUCTURES SHALL USE INLET SEDIMENT CONTROL - DRAINAGE INLET. THE CONTRACTOR SHALL TRANSITION TO INLET SEDIMENT CONTROL - CURB INLET AFTER THE TOP UNIT, FRAME, AND GRATE ARE INSTALLED.
- THE CONSTRUCTION PHASING PLANS ARE A SUGGESTED SEQUENCE FOR BUILDING THE PROJECT WITHIN THE MAINTENANCE OF TRAFFIC AND SCHEDULING CONSTRAINTS PROVIDED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR MAY SUBMIT AN ALTERNATE PHASING PLAN FOR APPROVAL. HOWEVER, ANY ALTERNATE PLAN MUST COMPLY WITH THE SCHEDULE CONSTRAINTS, TRAFFIC CONTROL AND LANE RESTRICTION NOTES, UTILITY RELOCATIONS, AND ANY OTHER APPLICABLE PROJECT NOTES OR CONTRACT RESTRICTIONS INCLUDED WITHIN THE CONTRACT DOCUMENTS. UNLESS APPROVED OTHERWISE, THE ALTERNATE PHASING PLAN MAY NOT ADD COST OR TIME TO THE CONTRACT AND SHALL RECEIVE APPROVAL BY THE ENGINEER PRIOR TO IMPLEMENTING.
- THE CONTRACTOR SHALL COMPLETE CONSTRUCTION OF PHASE 2 WORK WITHIN TWENTY-SEVEN (27) CONTINUOUS CALENDAR DAYS, INCLUSIVE OF WEATHER DAYS. FAILURE TO COMPLETE THE WORK REQUIRED TO REOPEN THE ROADWAY TO TRAFFIC WITHIN THE SPECIFIED TIME WILL RESULT IN ROAD USER COSTS AS DEFINED IN THE BID PACKAGE. TO REMOVE THE DETOUR, THE ROADWAY SHALL MEET ALL SAFETY REQUIREMENTS TO ENSURE FULL OPERATION TO THE TRAVELING PUBLIC.

## SEQUENCE OF CONSTRUCTION

### PHASE 1

- PLACE PORTABLE CHANGEABLE MESSAGE SIGNS TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.
- PLACE ADVANCED WARNING SIGNS PER THE ADVANCED WARNING SIGN LAYOUT.
- PLACE DRUMS AS SHOWN ON THE PHASE 1 PLAN.
- UTILIZE TA-10 FROM THE DE MUTCD AS NECESSARY DURING THIS PHASE OF CONSTRUCTION TO CLOSE A LANE ADHERING TO THE ALLOWABLE LANE CLOSURE HOURS.
- INSTALL TEMPORARY CONSTRUCTION FENCE.
- INSTALL PERIMETER E&S CONTROLS AND STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE PHASE 1 PLAN. CLEAR AND GRUB PROJECT LIMITS.
- THE CONTRACTOR SHALL ENSURE THE SEPTIC SYSTEMS ON PROJECT PARCELS 108 AND 301 HAVE BEEN REMOVED BY OTHERS PRIOR TO STARTING WORK IN THIS AREA.
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO STAKE OUT PROPOSED IMPROVEMENTS AND RIGHT-OF-WAY FOR ENTIRE PROJECT LIMITS. PERFORM ALL UTILITY RELOCATIONS.
- UTILIZE TA-10 FROM THE DE MUTCD WITH ADDITIONAL FLAGGERS POSITIONED PER TA-27 FROM THE DE MUTCD TO INSTALL THE PROPOSED WATER LINE CROSSING OF CENTRAL CHURCH ROAD AT STA. 308+75. CLOSING ONE LANE AT A TIME. CONTRACTOR SHALL INSTALL TEMPORARY PATCH DETAIL (BITUMINOUS CONCRETE) PER THE CONSTRUCTION DETAILS PRIOR TO REOPENING THE LANE.
- THE CONTRACTOR SHALL COORDINATE WITH THE TRAFFIC MANAGEMENT CENTER AND DELDOT'S SIGNAL CONTRACTOR TO ENSURE THAT TRAFFIC SIGNAL BEACONS RECEIVE POWER FROM THE RELOCATED UTILITY POLES. ADVANCED AND STOP BEACONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF PHASE 1.
- CONSTRUCT PROPOSED WETLAND MITIGATION SITE.
- INSTALL STREAM DIVERSION ON THE CROSSROAD PIPE AT STATION 204+35 USING A SAND BAG DIKE AND SUMP PUMP THAT OUTLETS TO A DEWATERING BAG TO INSTALL RR-304 AND P-309. SAND BAG DIKE SHALL HAVE A MINIMUM HEIGHT EQUAL TO THE TOP OF STREAMBANK. RIPRAP SHALL BE INSTALLED NO LESS THAN 48 HOURS PRIOR TO A FORECASTED RAIN EVENT. REMOVE STREAM DIVERSION.
- EXCAVATE PROPOSED DITCHES AND SWALES AND INSTALL PROPOSED DRIVEWAY PIPES AS SHOWN IN THIS PHASE. INSTALL E&S CONTROLS AS PROPOSED DRAINAGE IS CONSTRUCTED AS SHOWN ON THE PHASE 1 PLAN.
- INSTALL PROPOSED LIGHTING INCLUDING BUT NOT LIMITED TO CONDUIT, JUNCTION WELLS, POLE BASES, AND LIGHTING STANDARD PER THE LIGHTING PLANS.
- ALL DISTURBED AREAS SHALL BE ADEQUATELY STABILIZED BEFORE PROCEEDING TO THE NEXT PHASE. THE CONTRACTOR MAY REMOVE RESPECTIVE E&S DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.

### PHASE 2

- MAINTAIN NECESSARY E&S CONTROLS INSTALLED IN THE PREVIOUS PHASE AS SHOWN ON THE PLANS.
- IMPLEMENT THE KENTON ROAD AT CENTRAL CHURCH ROAD DETOUR. PLACE PORTABLE CHANGEABLE MESSAGE SIGNS TEN (10) DAYS PRIOR TO THE CLOSURE.
- INSTALL TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE PHASE 2 PLAN, INCLUDING BUT NOT LIMITED TO:
  - PLACE TYPE 3 BARRICADES WITH R11-2 SIGNS AT THE LIMIT OF DRIVEWAY ACCESS AS SHOWN ON THE PHASE 2 PLANS.
  - PLACE TYPE 3 BARRICADES WITH R11-4 SIGNS AT THE PROJECT LIMITS TO ALLOW ACCESS TO DRIVEWAYS WITHIN THE PROJECT LIMITS.
  - PLACE DRUMS FROM THE PROJECT LIMITS TO THE CLOSURE LIMITS TO DELINEATE A 20' WIDE ACCESSWAY TO DRIVEWAYS WITHIN THE PROJECT LIMITS.
- INSTALL PROPOSED DRAINAGE AS SHOWN IN THIS PHASE. INSTALL E&S CONTROLS AS PROPOSED DRAINAGE IS CONSTRUCTED AS SHOWN ON THE PHASE 2 PLAN.
- SAWCUT, EXCAVATE, AND GRADE PAVEMENT BOX. CONTRACTOR SHALL PLACE AND COMPACT GABC WITH A MINIMUM WIDTH OF 20' FROM THE MILL AND OVERLAY LIMIT TO THE FURTHEST DRIVEWAY WITHIN THE PROJECT LIMITS TO CREATE AN ACCESSWAY. THIS ACCESSWAY SHALL BE MAINTAINED UNTIL PAVING WITHIN THESE AREAS IS COMPLETED. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN IN THE PHASE 2 PLANS.
- CONSTRUCT CURB, TRUCK APRONS, SPLITTER ISLANDS, AND CENTRAL ISLAND AS SHOWN ON THE PHASE 2 PLAN.
- CONSTRUCT PAVEMENT BOX. MILL AND/OR WEDGE REQUIRED AREAS. PAVE THE TYPE C PAVEMENT TO THE FINAL GRADES THROUGH THE PROJECT LIMITS.
- PLACE FINAL PAVEMENT MARKINGS AND PERMANENT SIGNING. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE FINAL SIGNAGE WITH THE ENGINEER IN THE FIELD. THE CONTRACTOR SHALL NOT REMOVE ANY TEMPORARY SIGNAGE UNLESS APPROVED BY THE ENGINEER IN THE FIELD.
- AFTER APPROVAL, REMOVE THE DETOUR AND PHASE 2 TEMPORARY TRAFFIC CONTROLS. PLACE PORTABLE MESSAGE SIGNS TO ALERT PUBLIC OF NEW TRAFFIC PATTERN. MESSAGE AND LOCATION SHALL BE COORDINATED WITH AND APPROVED BY THE DISTRICT SAFETY OFFICER. OPEN KENTON ROAD AND CENTRAL CHURCH ROAD TO TRAFFIC.
- ALL DISTURBED AREAS SHALL BE ADEQUATELY STABILIZED. THE CONTRACTOR MAY REMOVE THE E&S DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.
- REMOVE ADVANCED WARNING SIGNS.

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

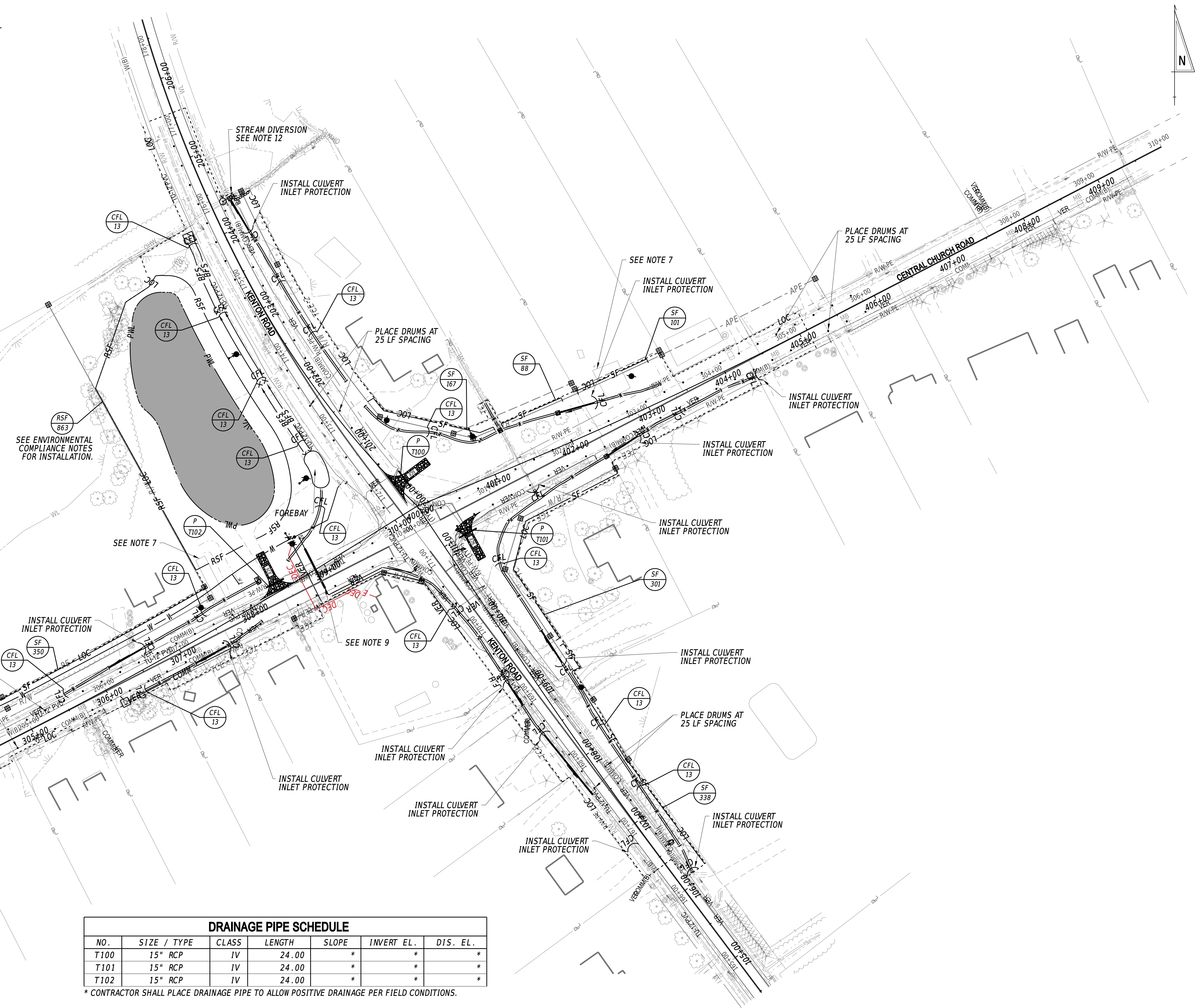
CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**CONSTRUCTION PHASING,  
M.O.T., AND EROSION  
CONTROL PLAN**

SECTION
CEN
SHEET NO.
38

# PHASE 1

1. PLACE PORTABLE CHANGEABLE MESSAGE SIGNS TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.
2. PLACE ADVANCED WARNING SIGNS PER THE ADVANCED WARNING SIGN LAYOUT.
3. PLACE DRUMS AS SHOWN ON THE PHASE 1 PLAN.
4. UTILIZE TA-10 FROM THE DE MUTCD AS NECESSARY DURING THIS PHASE OF CONSTRUCTION TO CLOSE A LANE ADHERING TO THE ALLOWABLE LANE CLOSURE HOURS.
5. INSTALL TEMPORARY CONSTRUCTION FENCE.
6. INSTALL PERIMETER E&S CONTROLS AND STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE PHASE 1 PLAN. CLEAR AND GRUB PROJECT LIMITS.
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8. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO STAKE OUT PROPOSED IMPROVEMENTS AND RIGHT-OF-WAY FOR ENTIRE PROJECT LIMITS. PERFORM ALL UTILITY RELOCATIONS.
9. UTILIZE TA-10 FROM THE DE MUTCD WITH ADDITIONAL FLAGGERS POSITIONED PER TA-27 FROM THE DE MUTCD TO INSTALL THE PROPOSED WATER LINE CROSSING OF CENTRAL CHURCH ROAD AT STA. 308+75. CLOSING ONE LANE AT A TIME. CONTRACTOR SHALL INSTALL TEMPORARY PATCH DETAIL (BITUMINOUS CONCRETE) PER THE CONSTRUCTION DETAILS PRIOR TO REOPENING THE LANE.
10. THE CONTRACTOR SHALL COORDINATE WITH THE TRAFFIC MANAGEMENT CENTER AND DELDOT'S SIGNAL CONTRACTOR TO ENSURE THAT TRAFFIC SIGNAL BEACONS RECEIVE POWER FROM THE RELOCATED UTILITY POLES. ADVANCED AND STOP BEACONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF PHASE 1.
11. CONSTRUCT PROPOSED WETLAND MITIGATION SITE.
12. INSTALL STREAM DIVERSION ON THE CROSSROAD PIPE AT STATION 204+35 USING A SAND BAG DIKE AND SUMP PUMP THAT OUTLETS TO A DEWATERING BAG TO INSTALL RR-304 AND P-309. SAND BAG DIKE SHALL HAVE A MINIMUM HEIGHT EQUAL TO THE TOP OF STREAMBANK. RIPRAP SHALL BE INSTALLED NO LESS THAN 48 HOURS PRIOR TO A FORECASTED RAIN EVENT. REMOVE STREAM DIVERSION.
13. EXCAVATE PROPOSED DITCHES AND SWALES AND INSTALL PROPOSED DRIVEWAY PIPES AS SHOWN IN THIS PHASE. INSTALL E&S CONTROLS AS PROPOSED DRAINAGE IS CONSTRUCTED AS SHOWN ON THE PHASE 1 PLAN.
14. INSTALL PROPOSED LIGHTING INCLUDING BUT NOT LIMITED TO CONDUIT, JUNCTION WELLS, POLE BASES, AND LIGHTING STANDARD PER THE LIGHTING PLANS.
15. ALL DISTURBED AREAS SHALL BE ADEQUATELY STABILIZED BEFORE PROCEEDING TO THE NEXT PHASE. THE CONTRACTOR MAY REMOVE RESPECTIVE E&S DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.

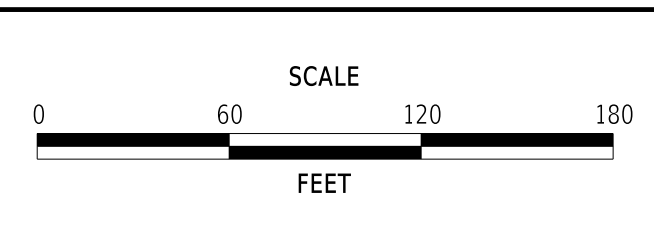


DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.
T100	15" RCP	IV	24.00	*	*	*
T101	15" RCP	IV	24.00	*	*	*
T102	15" RCP	IV	24.00	*	*	*

\* CONTRACTOR SHALL PLACE DRAINAGE PIPE TO ALLOW POSITIVE DRAINAGE PER FIELD CONDITIONS.

21-OCT-2025 12:46 \\fscm-deloopw21\CS\_pof\_work\_dir\6283132904\_35\CS01\_RDSF\_T202104204\_CEL\_P01.dgn

ADDENDA / REVISIONS



## HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS

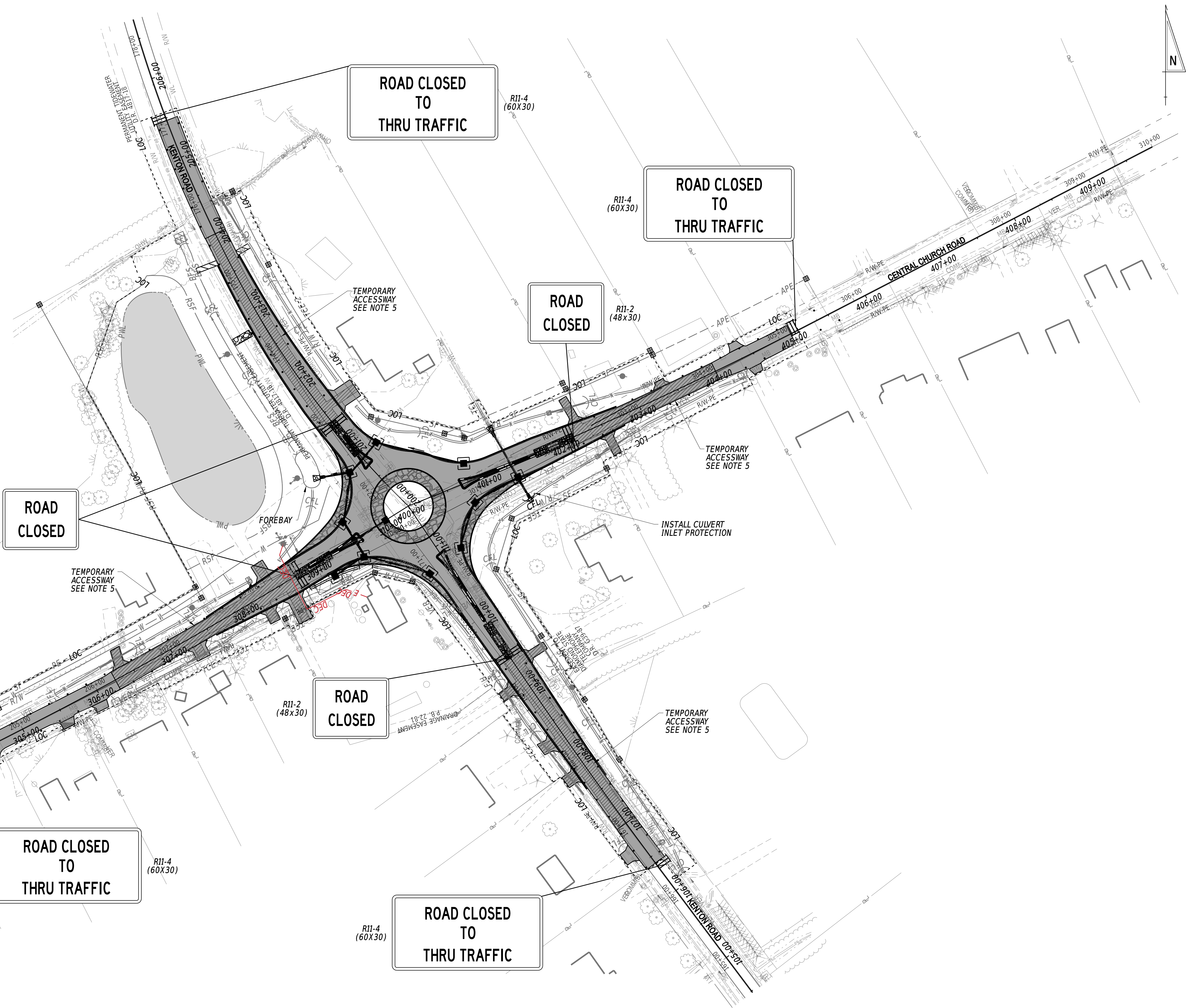
CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

## CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

SECTION	CEN
SHEET NO.	39

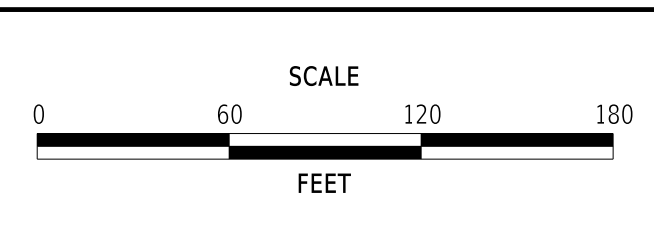
**PHASE 2**

1. MAINTAIN NECESSARY E&S CONTROLS INSTALLED IN THE PREVIOUS PHASE AS SHOWN ON THE PLANS.
2. IMPLEMENT THE KENTON ROAD AT CENTRAL CHURCH ROAD DETOUR. PLACE PORTABLE CHANGEABLE MESSAGE SIGNS TEN (10) DAYS PRIOR TO THE CLOSURE.
3. INSTALL TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE PHASE 2 PLAN, INCLUDING BUT NOT LIMITED TO:
  - A. PLACE TYPE 3 BARRICADES WITH R11-2 SIGNS AT THE LIMIT OF DRIVEWAY ACCESS AS SHOWN ON THE PHASE 2 PLANS.
  - B. PLACE TYPE 3 BARRICADES WITH R11-4 SIGNS AT THE PROJECT LIMITS TO ALLOW ACCESS TO DRIVEWAYS WITHIN THE PROJECT LIMITS.
  - C. PLACE DRUMS FROM THE PROJECT LIMITS TO THE CLOSURE LIMITS TO DELINEATE A 20' WIDE ACCESSWAY TO DRIVEWAYS WITHIN THE PROJECT LIMITS.
4. INSTALL PROPOSED DRAINAGE AS SHOWN IN THIS PHASE. INSTALL E&S CONTROLS AS PROPOSED DRAINAGE IS CONSTRUCTED AS SHOWN ON THE PHASE 2 PLAN.
5. SAWCUT, EXCAVATE, AND GRADE PAVEMENT BOX. CONTRACTOR SHALL PLACE AND COMPACT GABC WITH A MINIMUM WIDTH OF 20' FROM THE MILL AND OVERLAY LIMIT TO THE FURTHEST DRIVEWAY WITHIN THE PROJECT LIMITS TO CREATE AN ACCESSWAY. THIS ACCESSWAY SHALL BE MAINTAINED UNTIL PAVING WITHIN THESE AREAS IS COMPLETED. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN IN THE PHASE 2 PLANS.
6. CONSTRUCT CURB, TRUCK APRONS, SPLITTER ISLANDS, AND CENTRAL ISLAND AS SHOWN ON THE PHASE 2 PLAN.
7. CONSTRUCT PAVEMENT BOX. MILL AND/OR WEDGE REQUIRED AREAS. PAVE THE TYPE C PAVEMENT TO THE FINAL GRADES THROUGH THE PROJECT LIMITS.
8. PLACE FINAL PAVEMENT MARKINGS AND PERMANENT SIGNING. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE FINAL SIGNAGE WITH THE ENGINEER IN THE FIELD. THE CONTRACTOR SHALL NOT REMOVE ANY TEMPORARY SIGNAGE UNLESS APPROVED BY THE ENGINEER IN THE FIELD.
9. AFTER APPROVAL, REMOVE THE DETOUR AND PHASE 2 TEMPORARY TRAFFIC CONTROLS. PLACE PORTABLE MESSAGE SIGNS TO ALERT PUBLIC OF NEW TRAFFIC PATTERN. MESSAGE AND LOCATION SHALL BE COORDINATED WITH AND APPROVED BY THE DISTRICT SAFETY OFFICER. OPEN KENTON ROAD AND CENTRAL CHURCH ROAD TO TRAFFIC.
10. ALL DISTURBED AREAS SHALL BE ADEQUATELY STABILIZED. THE CONTRACTOR MAY REMOVE THE E&S DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.
11. REMOVE ADVANCED WARNING SIGNS.



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ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2**

SECTION	CEN
SHEET NO.	40

**PORTABLE CHANGEABLE MESSAGE SIGNS**

**PRIOR TO DETOUR**

(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

SR15 AT  
CENTRAL  
CHURCH

TO CLOSE  
STARTING  
XX/XX/XX

**PRIOR TO DETOUR**

(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-2

CENTRAL  
CHURCH  
AT SR15

TO CLOSE  
STARTING  
XX/XX/XX

**GENERAL NOTES**

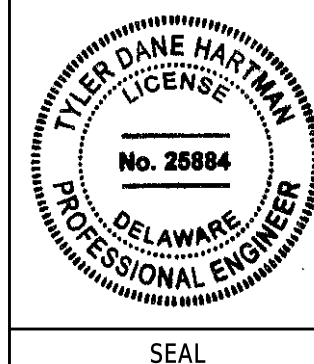
1. ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION.
2. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHALL BE CHANGED TO "RAMP", "RR XING" OR "BRIDGE" WHERE APPLICABLE.
3. "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB, OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE ROADWAY.
4. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

**SPECIAL NOTES**

5. THE CLOSURE AT THE INTERSECTION OF KENTON ROAD AND CENTRAL CHURCH ROAD WILL BE PERMITTED FOR A MAXIMUM PERIOD OF 27 CONTINUOUS CALENDAR DAYS.
6. FOR SPECIAL SIGN DETAILS "Y1", "Y2", "Y3", "Z" SEE SHEET 42.

PREPARED BY  
**CENTURY ENGINEERING**  
A Kleinfelder Company

*T. Hartman*  
THIS SEAL APPLIES TO THIS DETOUR SHEET. DATE 11/30/2023



*T. Hartman*  
DATE 11/27/23

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

ADDENDA / REVISIONS

NOT TO SCALE

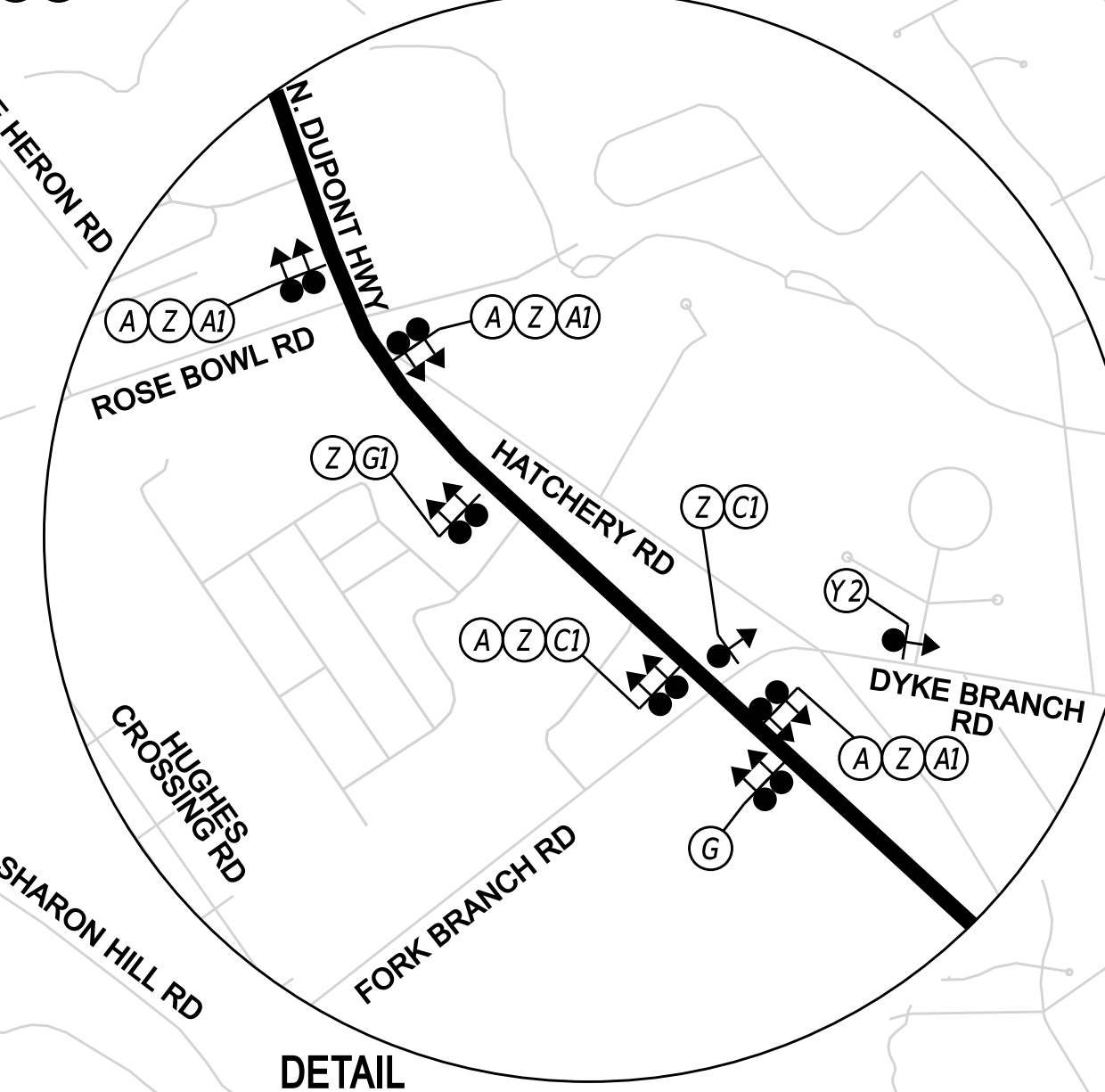
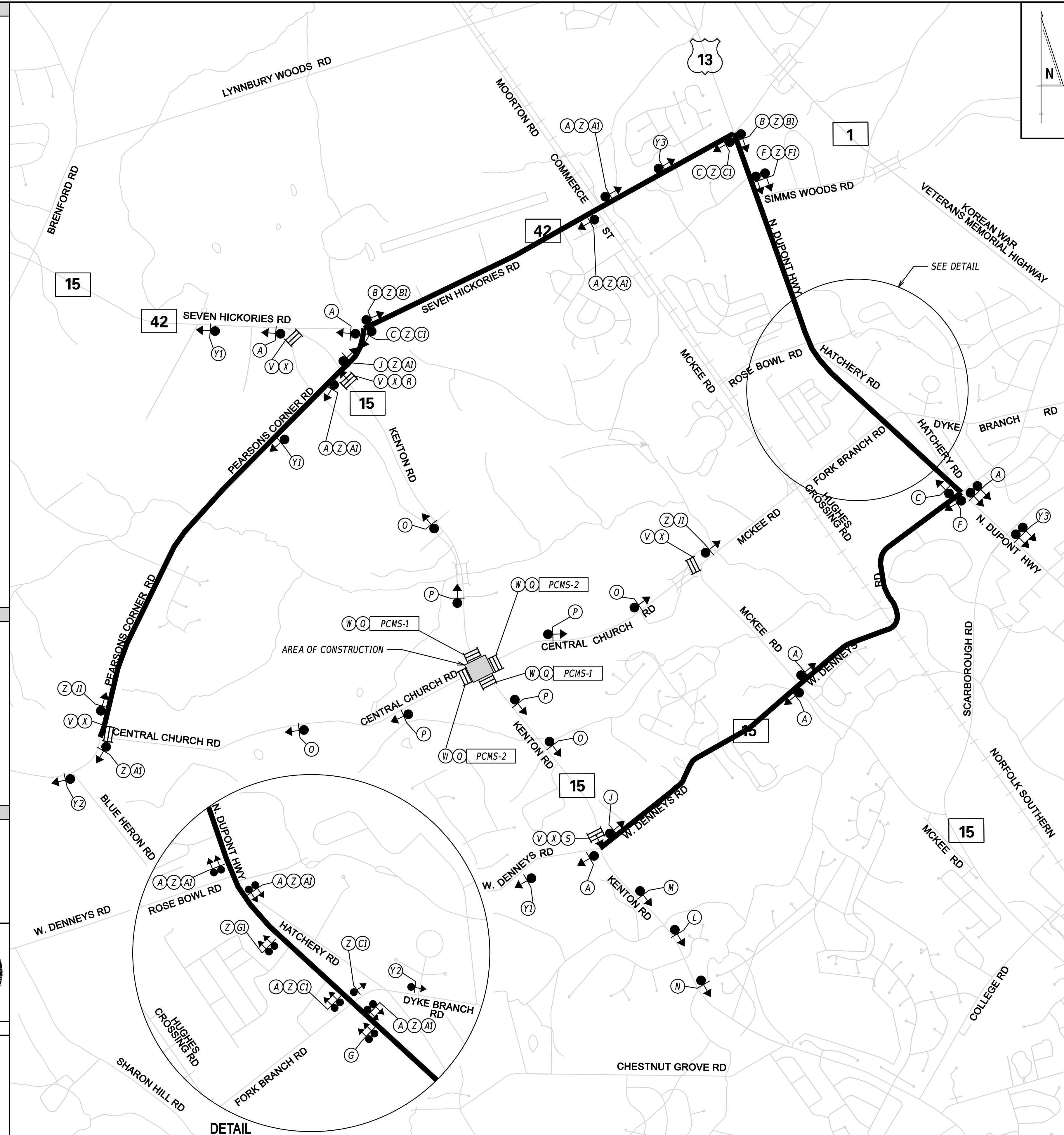
HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT  
T202104204  
COUNTY  
KENT

ROAD NO.  
**K104**  
DESIGNED BY: D. SPENCE  
CHECKED BY: T. HARTMAN

DETOUR PLAN  
CENTRAL CHURCH RD @ SR15

SECTION  
CEN  
SHEET NO.  
41

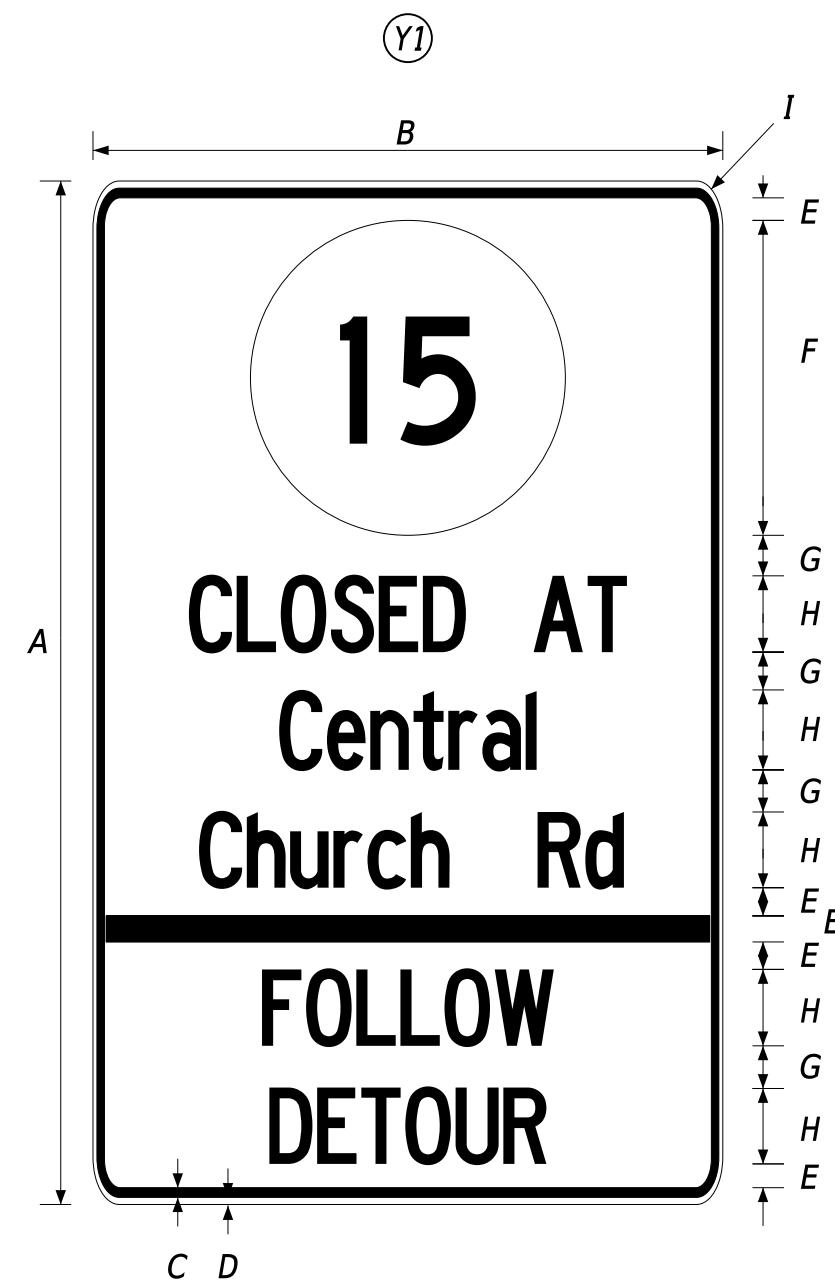


**LEGEND**


CONCURRENCE FOR IMPLEMENTATION  
*T. Hartman* DATE 12/5/23

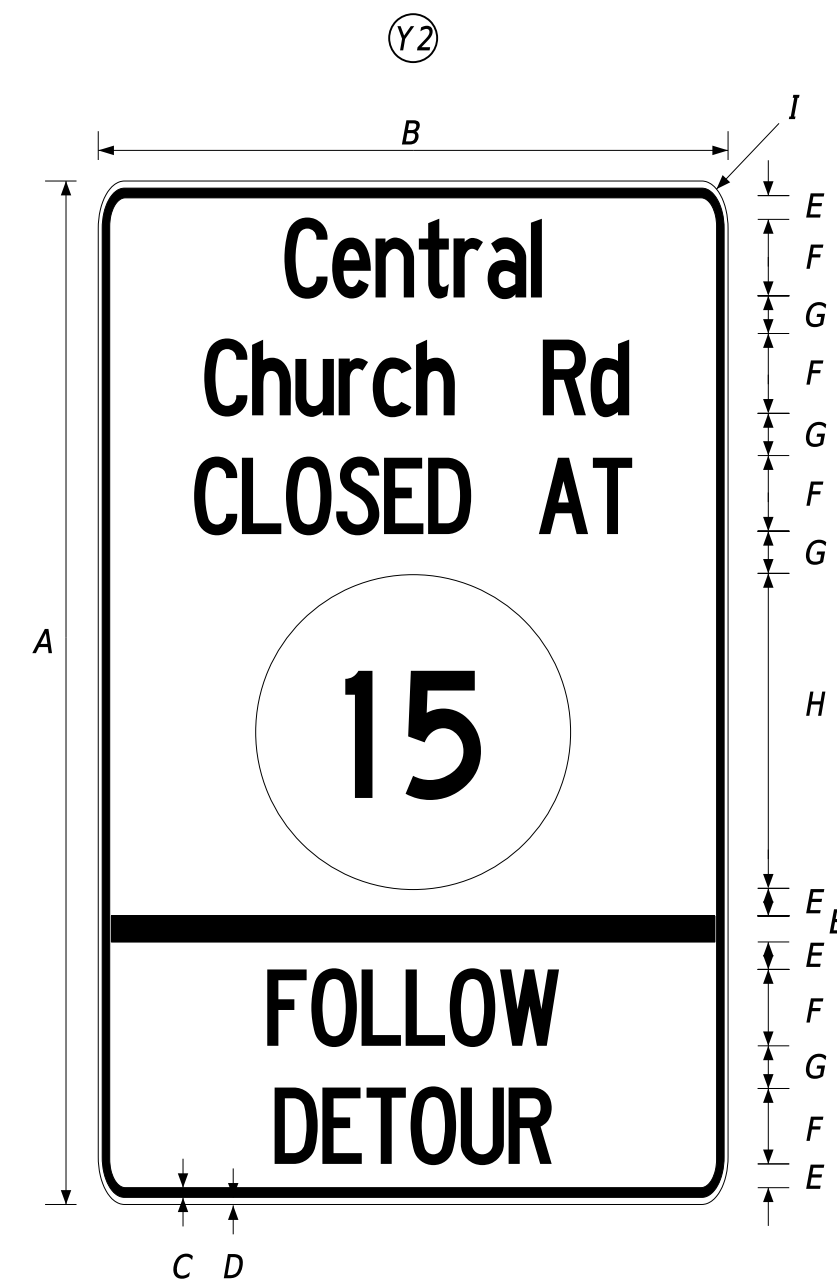
LAST REVISED: 9/11/2018  
 30-NOV-2023  
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**SPECIAL SIGNS**



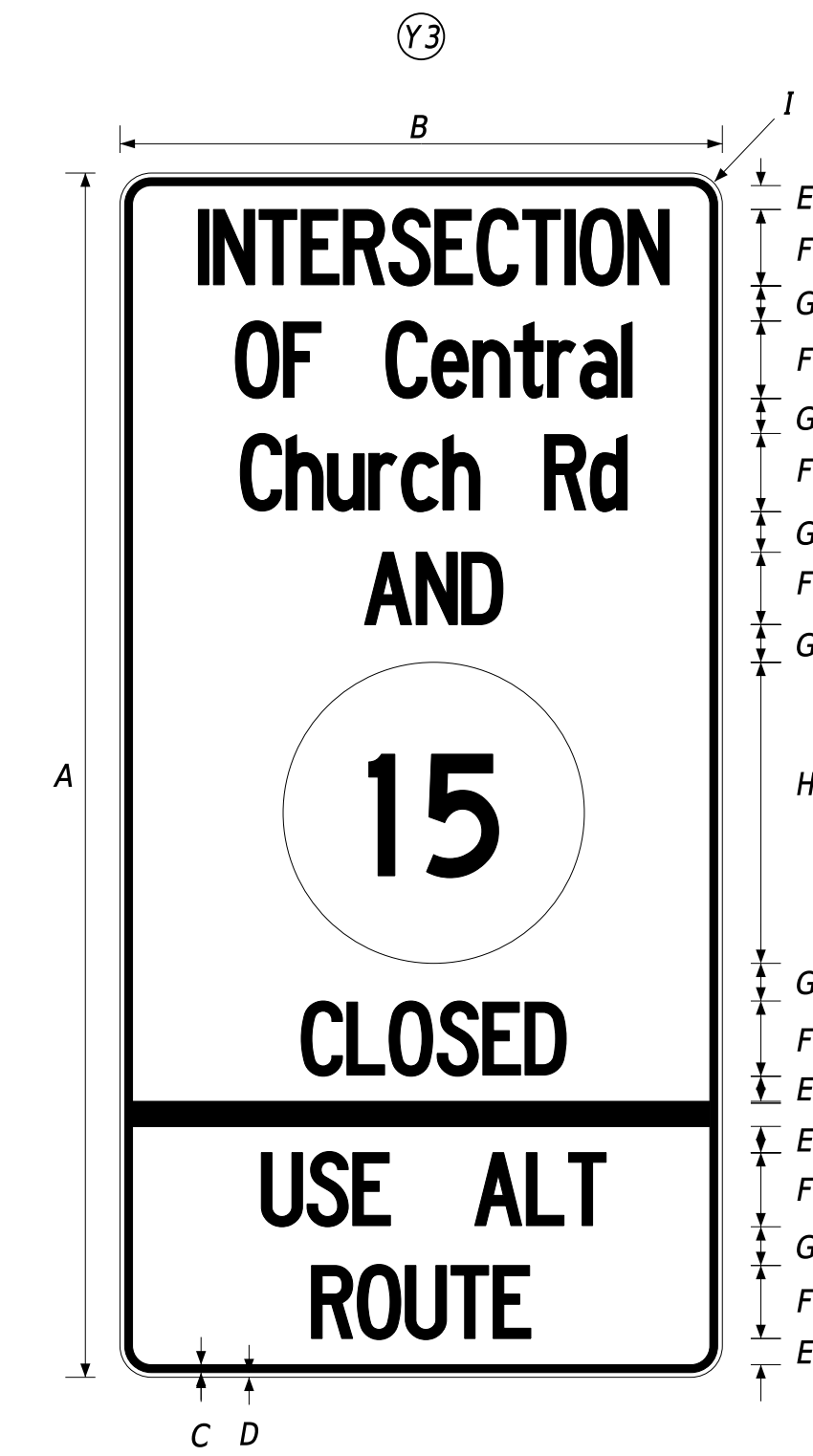
SIGN SIZE	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD	78"	48"	.625"	.375"	2"	24"	3"	6"	2.5"	-

COLORS - LEGEND, BORDER - BLACK  
BACKGROUND - PRISMATIC RETROREFLECTIVE FLUORESCENT ORANGE  
- ROUTE SHIELD - WHITE BACKGROUND, BLACK LEGEND



SIGN SIZE	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD	78"	48"	.625"	.375"	2"	6"	3"	24"	2.5"	-

COLORS - LEGEND, BORDER - BLACK  
BACKGROUND - PRISMATIC RETROREFLECTIVE FLUORESCENT ORANGE  
- ROUTE SHIELD - WHITE BACKGROUND, BLACK LEGEND



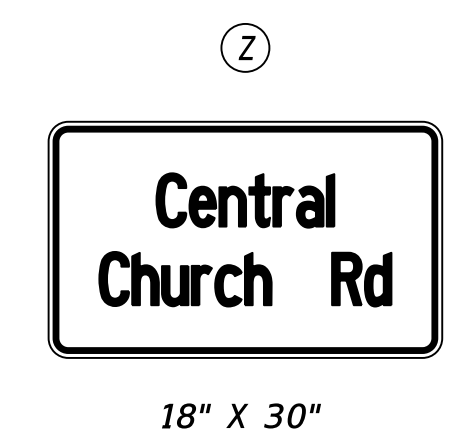
SIGN SIZE	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD	96"	48"	.625"	.375"	2"	6"	3"	24"	2.5"	-

COLORS - LEGEND, BORDER - BLACK  
BACKGROUND - PRISMATIC RETROREFLECTIVE FLUORESCENT ORANGE  
- ROUTE SHIELD - WHITE BACKGROUND, BLACK LEGEND

**LEGEND**

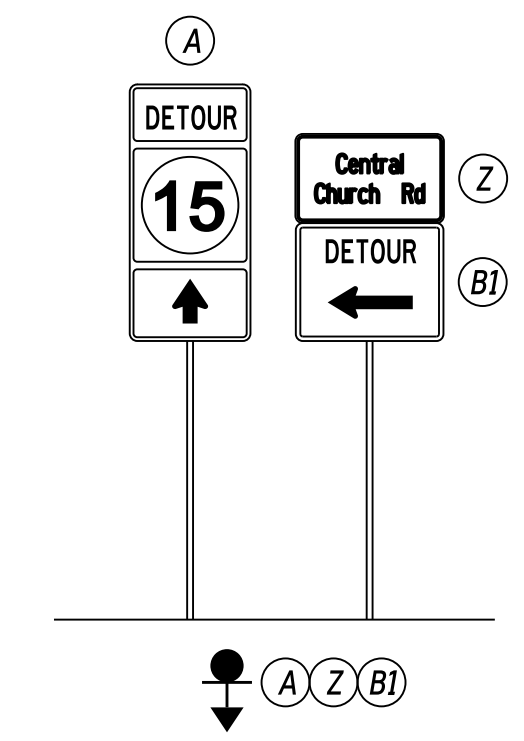
**GENERAL NOTES**

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- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.



COLORS - LEGEND, BORDER - BLACK  
BACKGROUND - PRISMATIC RETROREFLECTIVE FLUORESCENT ORANGE

**TRAILBLAZER MOUNTING DETAIL**



REFER TO SECTION 2D.29 IN THE DE MUTCD FOR SIGN ARRANGEMENT WHERE MULTIPLE SIGNS ARE POSTED IN THE SAME LOCATION

**CONCURRENCE FOR IMPLEMENTATION**

*Donald A. Hartman* 11/25/23

TRAFFIC SAFETY DATE

PREPARED BY  
**CENTURY ENGINEERING**  
A Kleinfelder Company

*Stephen Hartman* 11/29/2023  
THIS SEAL APPLIES TO THIS DETOUR SHEET. DATE

**DELAWARE PROFESSIONAL ENGINEER**  
TILER DANE HARTMAN  
LICENSE No. 29884  
SEAL

*[Signature]* 11/27/23  
QA/QC DATE

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	ROAD NO.	<b>K104</b>
T202104204	DESIGNED BY:	D. SPENCE
COUNTY	CHECKED BY:	T. HARTMAN
KENT		

DETOUR SIGN DETAIL

SECTION
CEN
SHEET NO.
42

LAST REVISED: 9/11/2018  
27-NOV-2023  
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# LIGHTING PROJECT NOTES

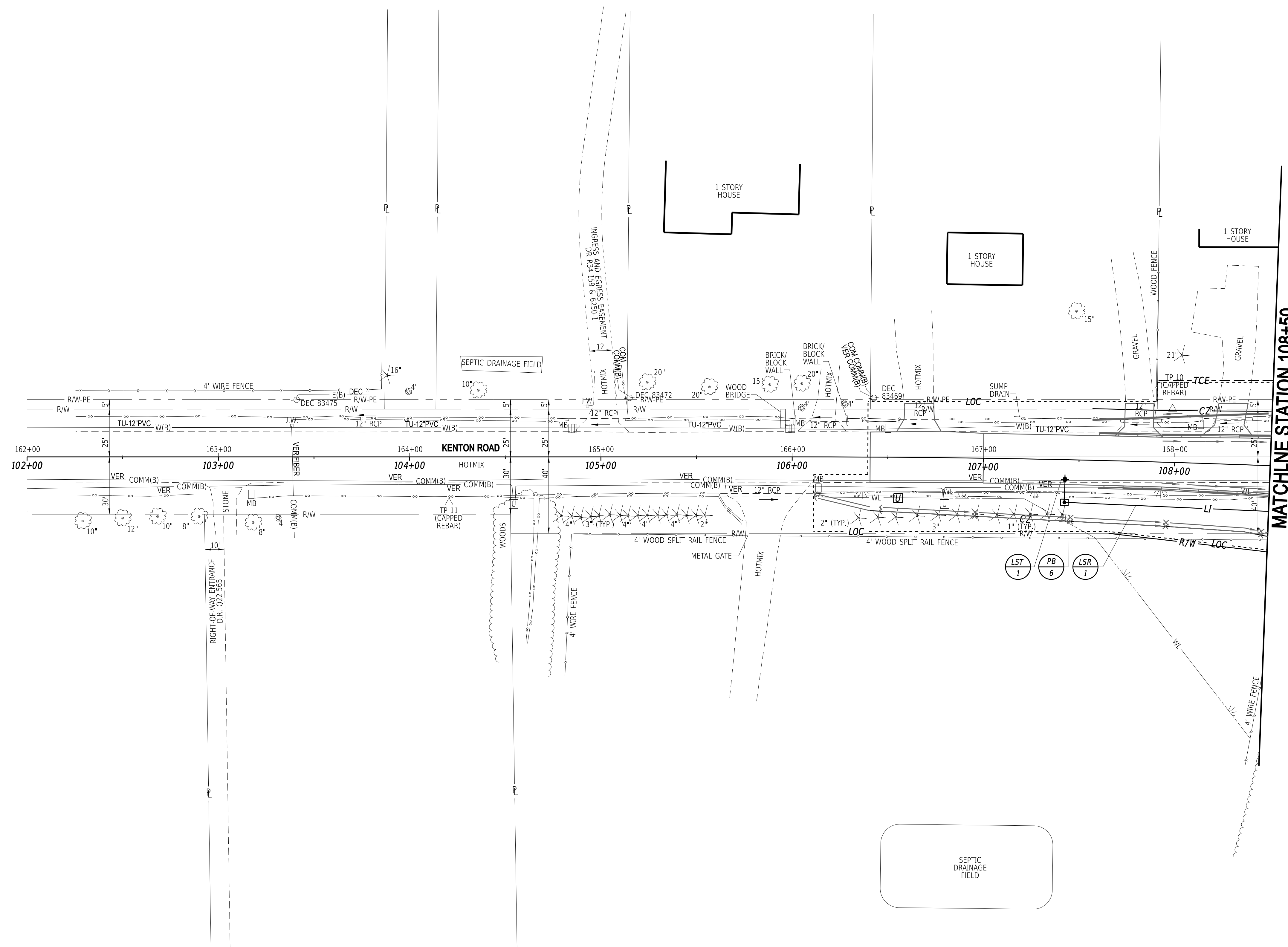
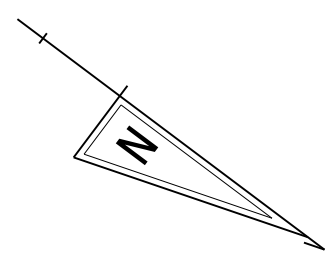
- CENTER OF CONDUIT TRENCH SHALL BE RUN IN STRAIGHT LINE BETWEEN THE LIGHTING STANDARDS, WHERE POSSIBLE.
- AT ALL LOCATIONS WHERE THE INSTALLATION OF CONDUITS REQUIRES CROSSING OF EXISTING UNDERDRAINS. THE CONTRACTOR SHALL HAND EXCAVATE. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID EXISTING UNDERDRAINS WHERE POSSIBLE.
- THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASE OF INADVERTENT DAMAGE TO AN EXISTING UNDERDRAIN LINE OR STRUCTURE. ALL REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER. REPAIR COSTS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEMS.
- THE CONTRACTOR SHALL BOND ALL METALLIC BOXES, CONDUITS, POLES, JUNCTION WELL COVERS & GROUND RODS TO FEEDER GROUND CABLES. COSTS INCIDENTAL TO ITEMS BEING INSTALLED.
- CONDUCTORS SHALL NOT BE SPICED EXCEPT IN THE POLE BASE. THE CONTRACTOR SHALL INCLUDE 10' OF SLACK CABLE FOR JUNCTION WELLS AND 4' OF SLACK CABLE FOR POLE-JUNCTION BOXES, NEATLY COILED AND BOUND FOR FUTURE USE.
- ALL CONDUITS, JUNCTION WELLS, LIGHTING STANDARDS ETC., SHALL BE STAKED OUT BY THE CONTRACTOR AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE. ALL TEMPORARY BYPASSES OF CIRCUITS SHALL BE ESTABLISHED PRIOR TO EXCAVATION.
- CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DELDOT TRAFFIC SECTION INTERIM MANAGER NICK MOGLE AT (302) 222-5920 TO INITIATE SERVICE APPLICATION AT LEAST 90 DAYS BEFORE POWER IS REQUIRED ON THE PROJECT. ALL POWER COSTS DURING CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
- MOUNTING HEIGHT SHALL BE MEASURED FROM THE CENTER LINE OF THE LUMINAIRE TO THE TOP OF THE ROADWAY AT THE SHOULDER LINE.
- ALL LIGHTING STANDARDS NOT PROTECTED BY A GUARDRAIL SHALL BE ON AASHTO-APPROVED BREAKAWAY TRANSFORMERBASES.
- BURIED ELECTRICAL CABLE, CONDUIT, AND UTILITY PIPES ARE SHOWN THROUGHOUT THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT MISS UTILITY TO VERIFY THE EXACT LOCATIONS OF THESE CABLES, CONDUITS, AND PIPES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PREVENTING DAMAGE TO THEM, AND MAINTAINING THEM IN SERVICE WHEN AND WHERE REQUIRED.
- ANY GUARDRAIL OR FENCE MATERIAL REMOVED FOR EASE OF CONSTRUCTION SHALL BE REPLACED THE SAME DAY. GUARDRAIL AND FENCE MATERIAL REMOVAL AND REPLACEMENT WILL BE CONSIDERED INCIDENTAL TO THE BID ITEMS.
- ALL CONCRETE SHALL BE CLASS B, UNLESS OTHERWISE NOTED.
- WHERE CONDUIT HAS PREVIOUSLY BEEN INSTALLED, THE CONNECTION TO THE CONDUIT IN THE BASE WILL BE MADE BEFORE POURING CONCRETE.
- ALL LIGHTING BASES WILL CONTAIN TWO 3" PVC CONDUIT SWEEPS WHICH SHALL BE INCLUDED IN THE COST OF THE BASE. THIS INCLUDES POLES AT THE END OF A CONDUIT RUN. ANY SWEEP NOT USED WILL BE CAPPED IN THE GROUND. AN ARROW SHALL BE PLACED IN THE BASE SURFACE INDICATING WHERE CONDUITS LEAVE THE BASE. PAYMENT FOR CAPS IS INCIDENTAL TO ITEM 834006, POLE BASE, TYPE 6.
- USE A 90° ELBOW WITH A 24" RADIUS FOR CONDUIT SWEEPS INTO POLE FOUNDATIONS. CONDUIT SWEEPS INTO LIGHTING CONTROL PANELS SHALL BE 4" DIA. WITH A 90° BEND AND 30" RADIUS. ALL 90° CONDUIT SWEEPS SHALL BE MANUFACTURED, FIELD BENDS ARE NOT ACCEPTABLE.
- CONDUIT SWEEPS AT LIGHTING CONTROL PANELS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTING ITEMS. CONTRACTOR SHALL PROVIDE FOUR SPARE 4" CONDUIT SWEEPS (CAPPED AT BOTH ENDS) IN EACH CONCRETE PAD.
- IN STABLE SOIL, FORMS BELOW 12" FROM THE SURFACE ARE NOT REQUIRED. ALL BASES SHALL BE EDGED AND HAVE ABROOM FINISH.
- FOR TYPE 6 POLE BASES, WHERE HORIZONTAL BARS AND VERTICAL BARS INTERSECT, THEY WILL BE WIRED TOGETHER. NO WELDING WILL BE ACCEPTED.
- THE ANCHOR BOLTS FOR TYPE 6 POLE BASES WILL HAVE A MINIMUM YIELDING STRESS OF 55,000 PSI.
- ANCHOR BOLTS, NUTS, AND HEX BOLTS WILL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE LATEST A.S.T.M. SPECIFICATIONS.
- ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENTS, SIDEWALKS, ETC. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATIONS IN UNPAVED AREAS WILL BE CONSTRUCTED SUCH THAT THE TOP OF THE COVER IS ONE INCH ABOVE FINAL GRADE. SURROUNDING AREA SHALL BE GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- CAST IRON FRAMES AND/OR COVERS WILL CONFORM TO SECTION 1039.7. CASTINGS, SHALL BE INCLUDED IN UNIT PRICE BID FOR CONDUIT JUNCTIONS WELLS.
- IN ALL JUNCTION WELLS AND POLE BASES, THE CONTRACTOR SHALL LABEL ALL BRANCH CIRCUIT CONDUCTORS WITH THEIR RESPECTIVE BRANCH CIRCUIT NUMBERS AND LIGHTING PANELS: 3(ON), 7(AS), ETC. INCIDENTAL TO ALL LIGHTING ITEMS.
- POLES AND TRANSFORMER BASES SHALL HAVE STRUCTURAL CAPABILITIES EQUAL TO OR EXCEEDING THOSE INTENDED BY THE LATEST EDITION OF AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGN, LUMINAIRES, AND TRAFFIC SIGNALS".
- HANDHOLES SHALL BE INSTALLED ON THE SIDE OF THE LIGHTING POLE SUCH THAT THE HANDHOLE COVER FACES ONCOMING TRAFFIC.

- IDENTIFICATION TAG SHALL BE LOCATED ON THE QUADRANT OF THE SURFACE OF THE POLE THAT FACES ONCOMING TRAFFIC, SO THAT A VEHICLE DRIVING BY CAN EASILY VIEW THE TAG.
- CONDUIT FIELD BENDS ARE ACCEPTABLE ONLY FOR NECESSARY NON-STANDARD BENDS OR OFFSETS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- ALL THE TRENCHING, BACKFILL, AND COMPACTION SHALL BE CONSIDERED INCIDENTAL TO THE CONDUIT ITEM.
- ALL FOUNDATIONS SHALL BE POURED IN THE SAME DAY OR THE HOLE SHALL BE COVERED AND DEWATERED BEFORE POURING. ALL COSTS ARE INCIDENTAL TO THE FOUNDATION WORK. THE CONTRACTOR SHALL MAKE ANY AND ALL ADJUSTMENTS AS NECESSARY IN THE EVENT THAT HIGH GROUNDWATER OR UNSTABLE SOIL IS ENCOUNTERED. CONTRACTOR SHALL DIRECT ALL SEDIMENT LADEN WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE PRIOR TO RELEASING IT TO ANY DRAINAGE INLET, STORM DRAIN, OR WATER COURSE. ALL COSTS ARE INCIDENTAL TO THE ITEM BEING INSTALLED.
- AT LOCATIONS WHERE CONTRACTOR IS WORKING AT OR NEAR EXISTING LIGHTING SERVICES, THERE SHALL BE NO OVERNIGHT LIGHTING OUTAGES.
- THE CONTRACTOR SHALL ESTABLISH ALL TEMPORARY BYPASSES OF CIRCUITS PRIOR TO EXCAVATION.
- COPPER COATED GROUND RODS (3/4" x 10' MIN.) SHALL BE PLACED FOR ALL EXISTING AND PROPOSED LIGHT ASSEMBLIES AND CONTROL BOXES AS SHOWN ON PLANS WITH 6'-0" MINIMUM OF THE ROD IN UNDISTURBED EARTH OR AS DIRECTED BY ENGINEER IN THE FIELD. COST FOR GROUND RODS TO BE INCIDENTAL TO THE ITEM BEING GROUNDED.
- PROVIDE A 160W, 60A LIGHTING CONTACTOR TO CONTROL THE LIGHTS, ONE CONTACTOR SHALL BE INSTALLED IN EACH OF THE CABINETS WITH THE PANEL AND CONTROLLED BY A PHOTOCELL. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTACTOR AND PHOTOCELL AND MAKE ALL FINAL CONNECTIONS. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.
- ALL LIGHTING STANDARD STATION AND OFFSET REFER TO THE CENTER OF POLE BASE.
- THE PROPOSED LIGHTING CIRCUIT AND PANEL DESIGNS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT A CIRCUIT, PANEL AND WIRING DIAGRAM FOR APPROVAL BY THE ENGINEER, PRIOR TO CONSTRUCTION. THE DIAGRAMS SHALL BE SEALED BY AN ELECTRICAL ENGINEER AND MEET ALL DELDOT AND ELECTRIC CODE REQUIREMENTS. ALL COSTS FOR SHOP DRAWINGS AND WIRING DIAGRAMS ARE INCIDENTAL TO THE LIGHTING ITEMS.
- THE CABINET COMPONENTS SHALL BE SQUARE D OR APPROVED EQUAL. THE CONTRACTOR SHALL CONTACT ALASTAIR PROBERT, SOUTH DISTRICT ENGINEER, AT (302) 853-1300 TO GO OVER FINAL CABINET WIRING AND CONFIGURATION.
- LUMINAIRES INSTALLED SHALL BE PHILLIPS ROADFOCUS RFL FIXTURES. THE LUMINAIRE MODEL SELECTED SHALL BE THE LED EQUIVALENT TO A 250 WATT HPS LUMINAIRE.
- ALL DELDOT OWNED LIGHTING EQUIPMENT TO BE REMOVED SHALL BE RETURNED TO SOUTH DISTRICT.

LIGHTING AND ITMS LEGEND	
	ITMS CABINET IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	ITMS CONDUIT RUN IDENTIFIER (RUN #) (EXISTING AND PROPOSED)
	ITMS JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	POLE BASE IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	LIGHTING CABINET IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	LIGHTING JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	LIGHTING SERVICE IDENTIFIER (EXISTING AND PROPOSED)
	LIGHTING STANDARD IDENTIFIER (EXISTING AND PROPOSED)
	ABANDON CONDUIT IDENTIFIER
	DO NOT DISTURB - EXISTING
	DO NOT DISTURB - PROPOSED WORK BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	PROPOSED LIGHTING SERVICE RUN (CONDUIT)
	PROPOSED 4" MULTIDUCT, PVC (TRENCH) WITH (4) 1" RIBBED INNER DUCT
	PROPOSED 4" MULTIDUCT, SDR-13.5 HDPE (BORE), WITH (4) 1" RIBBED INNER DUCT
	JUNCTION WELL (EXISTING AND PROPOSED)
	POWER SERVICE PEDESTAL (EX. AND PR.)
	SECONDARY SERVICE DISCONNECT (PROPOSED)
	LIGHTING CABINET (EXISTING AND PROPOSED)
	ITMS POLE (EXISTING AND PROPOSED)
	CCTV CAMERA (EXISTING AND PROPOSED)
	PROPOSED LIGHTING STANDARD
	PROPOSED LUMINAIRE ON EXISTING POLE
	EXISTING LIGHTING STANDARD

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ADDENDA / REVISIONS		NOT TO SCALE	<b>HEP KC, SR15/KENTON RD. AT          CENTRAL CHURCH RD.          INTERSECTION IMPROVEMENTS</b>	CONTRACT	BRIDGE NO.	N/A	LIGHTING NOTES	SECTION
				T202104204	DESIGNED BY:	A. HALLER		CEI
				COUNTY	CHECKED BY:	L. HAXTON		SHEET NO.
				KENT				43



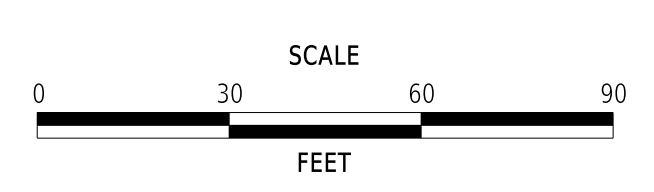
MATCHLINE STATION 108+50

LIGHTING SERVICE SCHEDULE			
SERVICE RUN	LENGTH	INSTALL METHOD	DESCRIPTION
1	118'	T	(1) 3" PVC - 2#8 + 1#8 GROUND

\* DENOTES EXISTING SERVICE RUN.  
INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE							
NO.	CKT NO.	STATION	OFFSET	NORTHING	EASTING	ARM	LIGHT STANDARD
1	A1	107+42.82	22.30' R	433911.4839	605826.4495	12'	81W TYPE III LED LUMINAIRE

ADDENDA / REVISIONS



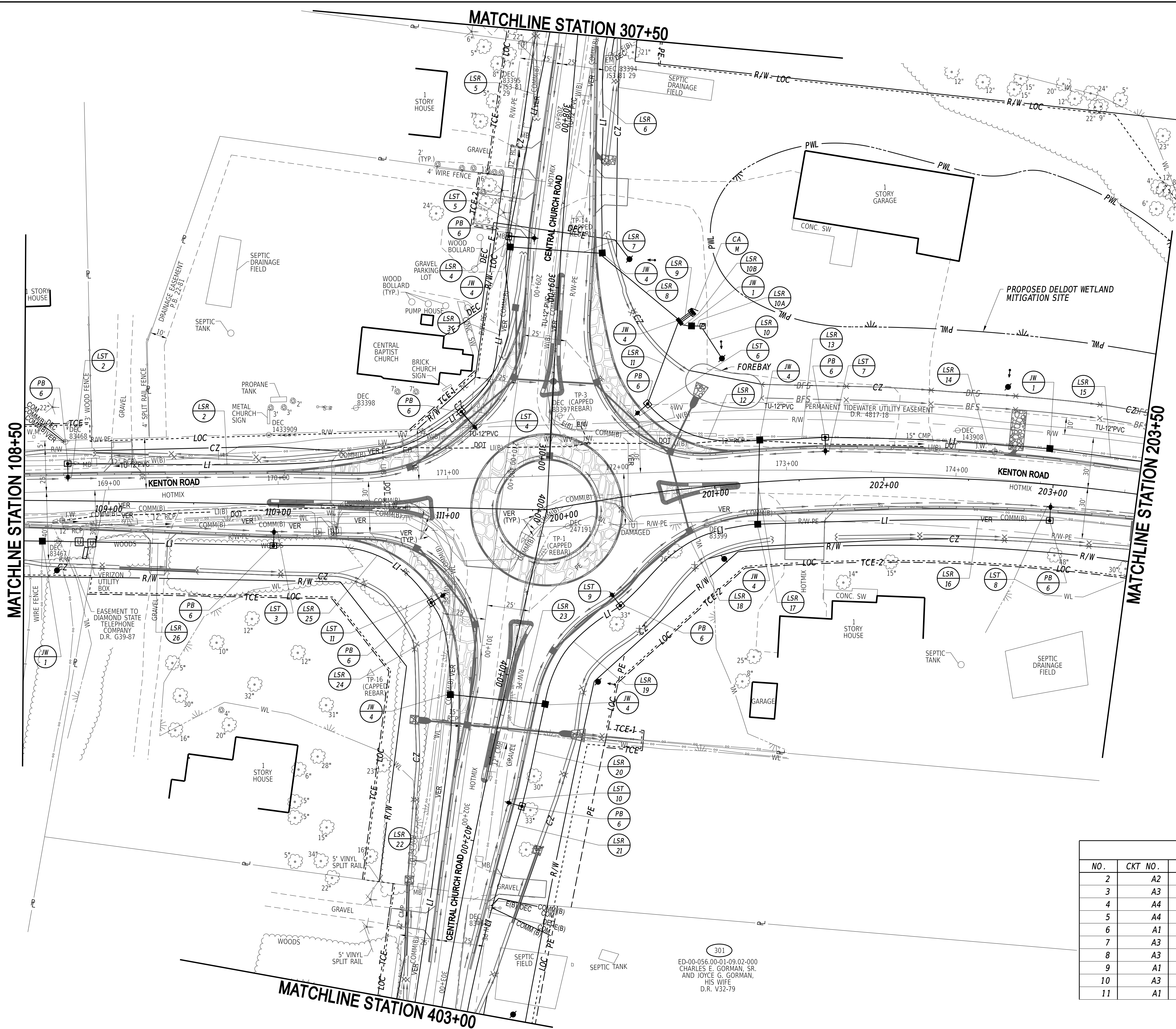
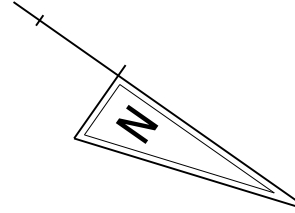
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

LIGHTING PLAN		LI-01
		SECTION
LIGHTING PLAN		CEN
		SHEET NO.
LIGHTING PLAN		44

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MATCHLINE STATION 307+50



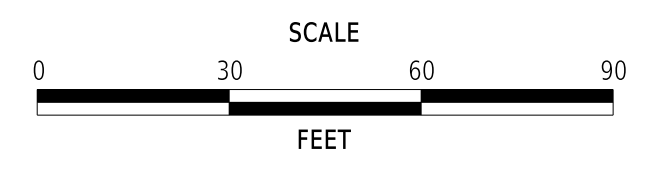
LIGHTING SERVICE SCHEDULE			
SERVICE RUN	LENGTH	INSTALL METHOD	DESCRIPTION
2	239'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
3	103'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
4	9'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
5	127'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
6	142'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
7	56'	B	(1) 4" HDPE - 3#8 + 1#8 GROUND
8	58'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
9	7'	T	(4) 4" PVC - 6#8 + 1#8 GROUND
10	20'	T	(1) 3" GALV. - 3#2 + 1#2 GROUND
10A	5'	T	(1) 3" GALV. - 3#2 + 1#2 GROUND
10B	5'	T	(1) 3" GALV. - 3#2 + 1#2 GROUND
11	52'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
12	72'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
13	39'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
14	133'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
15	120'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
16	172'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
17	50'	B	(1) 4" HDPE - 3#8 + 1#8 GROUND
18	97'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
19	76'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
20	62'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
21	147'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
22	198'	T	(1) 3" PVC - 2#8 + 1#8 GROUND
23	56'	B	(1) 4" HDPE - 3#8 + 1#8 GROUND
24	56'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
25	105'	T	(1) 3" PVC - 3#8 + 1#8 GROUND
26	136'	T	(1) 3" PVC - 2#8 + 1#8 GROUND

\* DENOTES EXISTING SERVICE RUN.  
 INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE							
NO.	CKT NO.	STATION	OFFSET	NORTHING	EASTING	ARM	LIGHT STANDARD
2	A2	108+75.54	21.89'L	433994.6323	605714.0376	8'	81W TYPE III LED LUMINAIRE
3	A3	109+98.28	24.21'R	434121.7617	605683.8806	8'	81W TYPE III LED LUMINAIRE
4	A4	309+71.71	58.18'R	434160.7080	605554.4398	12'	81W TYPE III LED LUMINAIRE
5	A4	308+71.55	31.33'R	434130.4886	605454.6699	15'	81W TYPE III LED LUMINAIRE
6	A1	200+66.93	52.43'L	434254.3675	605488.6204	8'	81W TYPE III LED LUMINAIRE
7	A3	201+66.23	24.29'L	434351.4294	605444.6250	8'	81W TYPE III LED LUMINAIRE
8	A3	203+00.00	21.26'R	434488.0531	605408.7218	8'	81W TYPE III LED LUMINAIRE
9	A1	200+40.58	59.41'R	434311.4437	605588.3130	8'	81W TYPE III LED LUMINAIRE
10	A3	401+74.36	23.75'L	434330.0911	605725.6386	8'	81W TYPE III LED LUMINAIRE
11	A1	400+68.58	54.00'R	434217.2755	605657.9954	8'	81W TYPE III LED LUMINAIRE

MATCHLINE STATION 403+00

ADDENDA / REVISIONS



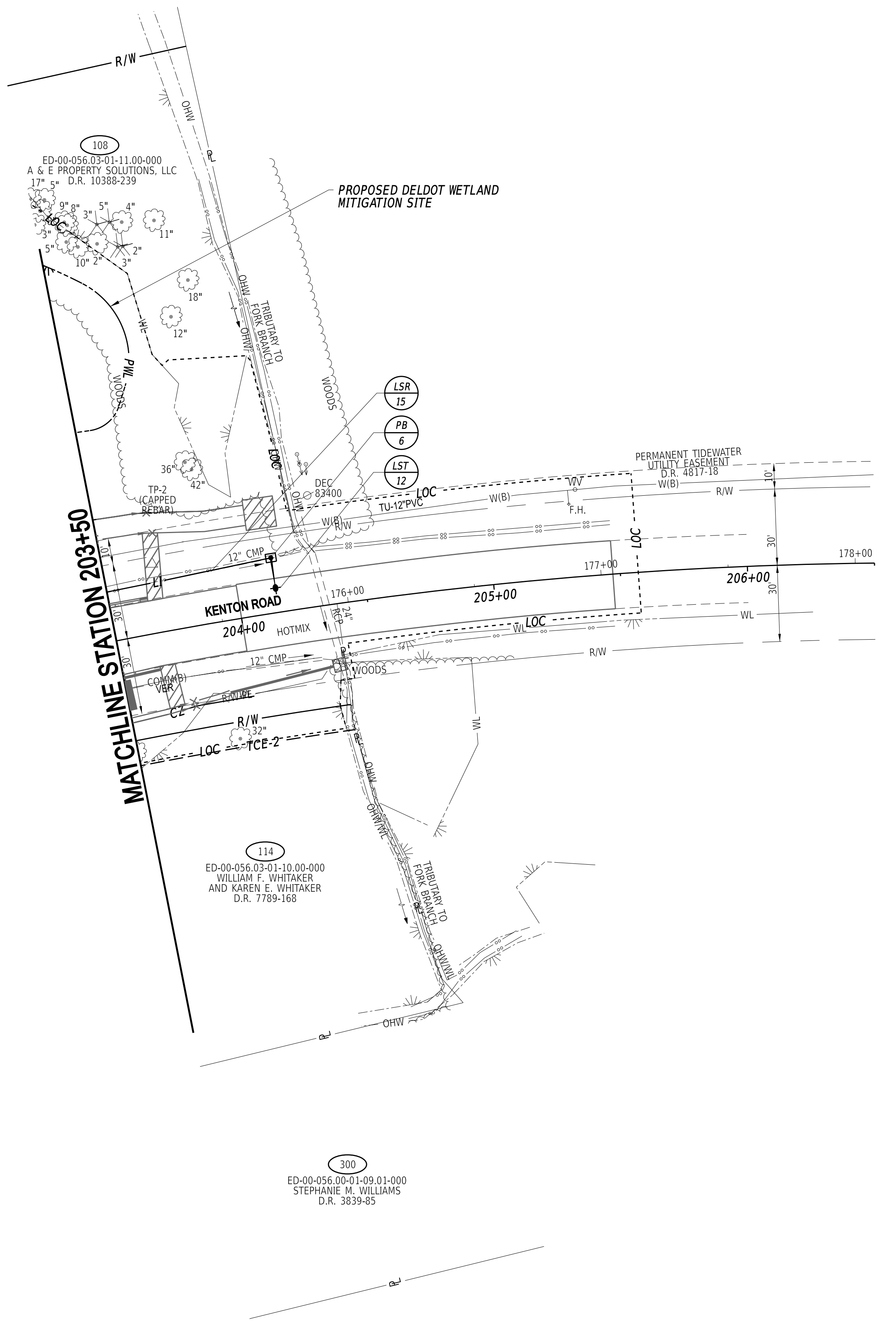
HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

LIGHTING PLAN

LI-02  
 SECTION  
 CEN  
 SHEET NO.  
 45

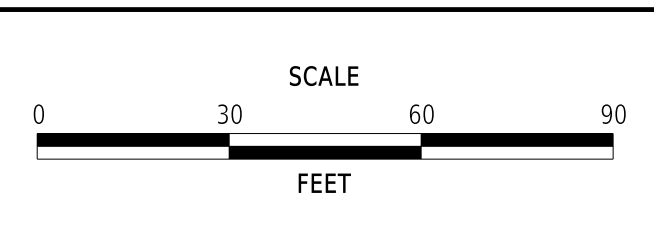
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LIGHTING STANDARD SCHEDULE							
NO.	CKT NO.	STATION	OFFSET	NORTHING	EASTING	ARM	LIGHT STANDARD
12	A1	204+15.00	21.65' L	434570.4130	605317.8056	12'	81W TYPE III LED LUMINAIRE

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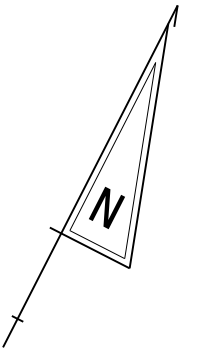
ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>LIGHTING PLAN</b>	<b>LI-03</b>
	SECTION
	CEN
	SHEET NO.
	46



MATCHLINE STATION 307+50

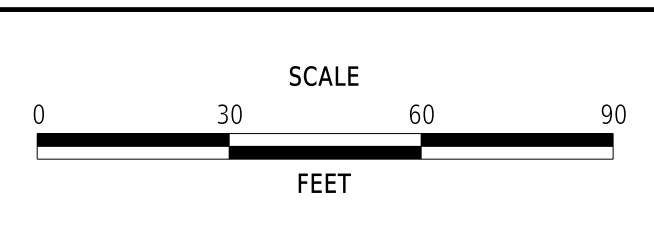
LIGHTING SERVICE SCHEDULE			
SERVICE RUN	LENGTH	INSTALL METHOD	DESCRIPTION
27	134'	T	(1) 3" PVC - 2#8 + 1#8 GROUND

\* DENOTES EXISTING SERVICE RUN.  
INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE							
NO.	CKT NO.	STATION	OFFSET	NORTHING	EASTING	ARM	LIGHT STANDARD
13	A2	306+16.50	19.66'R	434012.8869	605226.6289	12'	81W TYPE III LED LUMINAIRE
14	A2	307+39.60	19.18'L	434106.8007	605315.2460	12'	81W TYPE III LED LUMINAIRE

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ADDENDA / REVISIONS

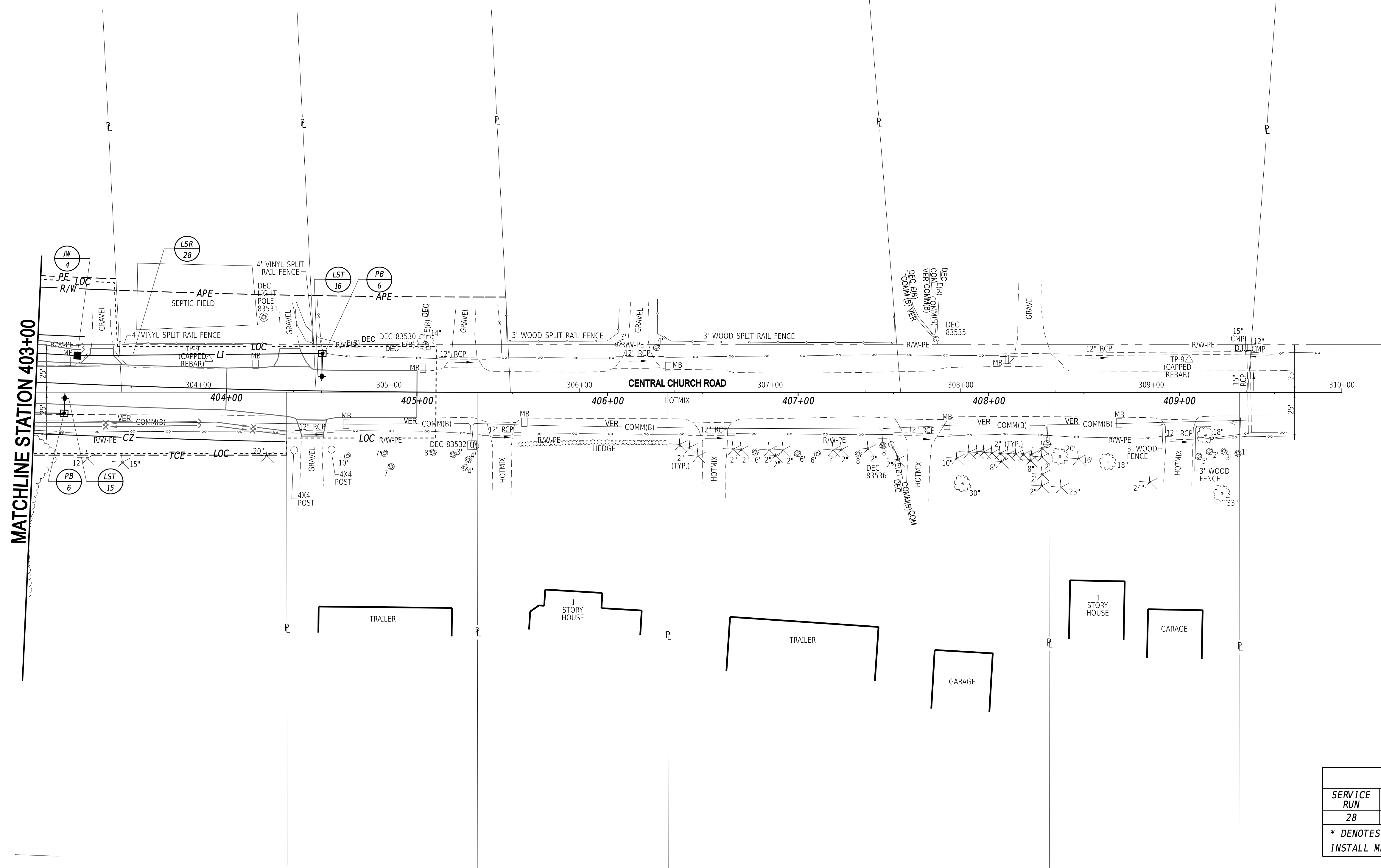
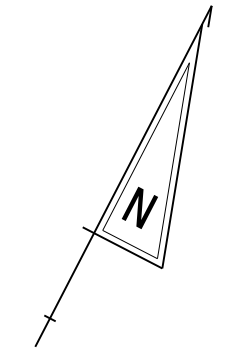


**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**LIGHTING PLAN**

**LI-04**  
SECTION  
CEN  
SHEET NO.  
47



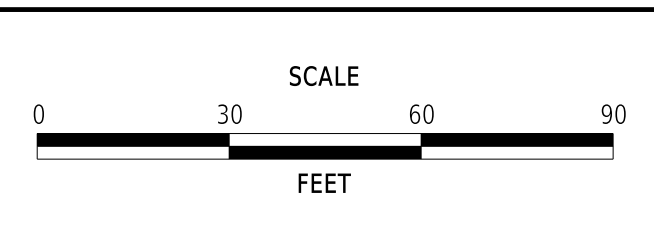
LIGHTING SERVICE SCHEDULE			
SERVICE RUN	LENGTH	INSTALL METHOD	DESCRIPTION
28	128'	B	(1) 3" HDPE - 2#8 + 1#8 GROUND

\* DENOTES EXISTING SERVICE RUN.  
INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE							
NO.	CKT NO.	STATION	OFFSET	NORTHING	EASTING	ARM	LIGHT STANDARD
15	A3	403+15.45	15.66'R	434351.8650	605870.3661	8'	81W TYPE III LED LUMINAIRE
16	A1	404+50.00	19.66'L	434442.0019	605976.2873	12'	81W TYPE III LED LUMINAIRE

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ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>LIGHTING PLAN</b>	
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<b>LI-05</b>
SECTION
CEN
SHEET NO.
48

POLE SCHEDULE							
POLE NO.	TYPE OF POLE	MAST ARM LENGTH	LUMINAIRE WATTAGE	TYPE OF BASE	STATION LOCATION		NOTES
					STATION	OFFSET	
1	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	107+42.82	22.30'R	
2	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	108+75.54	21.89'L	
3	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	109+98.28	24.21'R	
4	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	309+71.71	58.18'R	
5	30' ROUND ALUMINUM	15'	81 W	TYPE 6 (BREAKAWAY)	308+71.55	31.33'R	
6	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	200+66.93	52.43'L	
7	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	201+66.23	24.29'L	
8	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	203+00.00	21.26'R	
9	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	200+34.01	63.21'R	
10	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	401+74.36	23.75'L	
11	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	400+68.58	54.00'R	
12	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	204+15.00	21.65'L	
13	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	306+16.50	19.66'R	
14	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	307+39.60	19.18'L	
15	30' ROUND ALUMINUM	8'	81 W	TYPE 6 (BREAKAWAY)	403+15.45	15.66'R	
16	30' ROUND ALUMINUM	12'	81 W	TYPE 6 (BREAKAWAY)	404+50.00	19.66'L	

LIGHTING CABINET SCHEDULE				
CIRCUIT PANEL	TYPE OF BASE	STATION LOCATION		NOTES
		STATION	OFFSET	
A	DELDOT TYPE M	309+09.72	79.50'L	

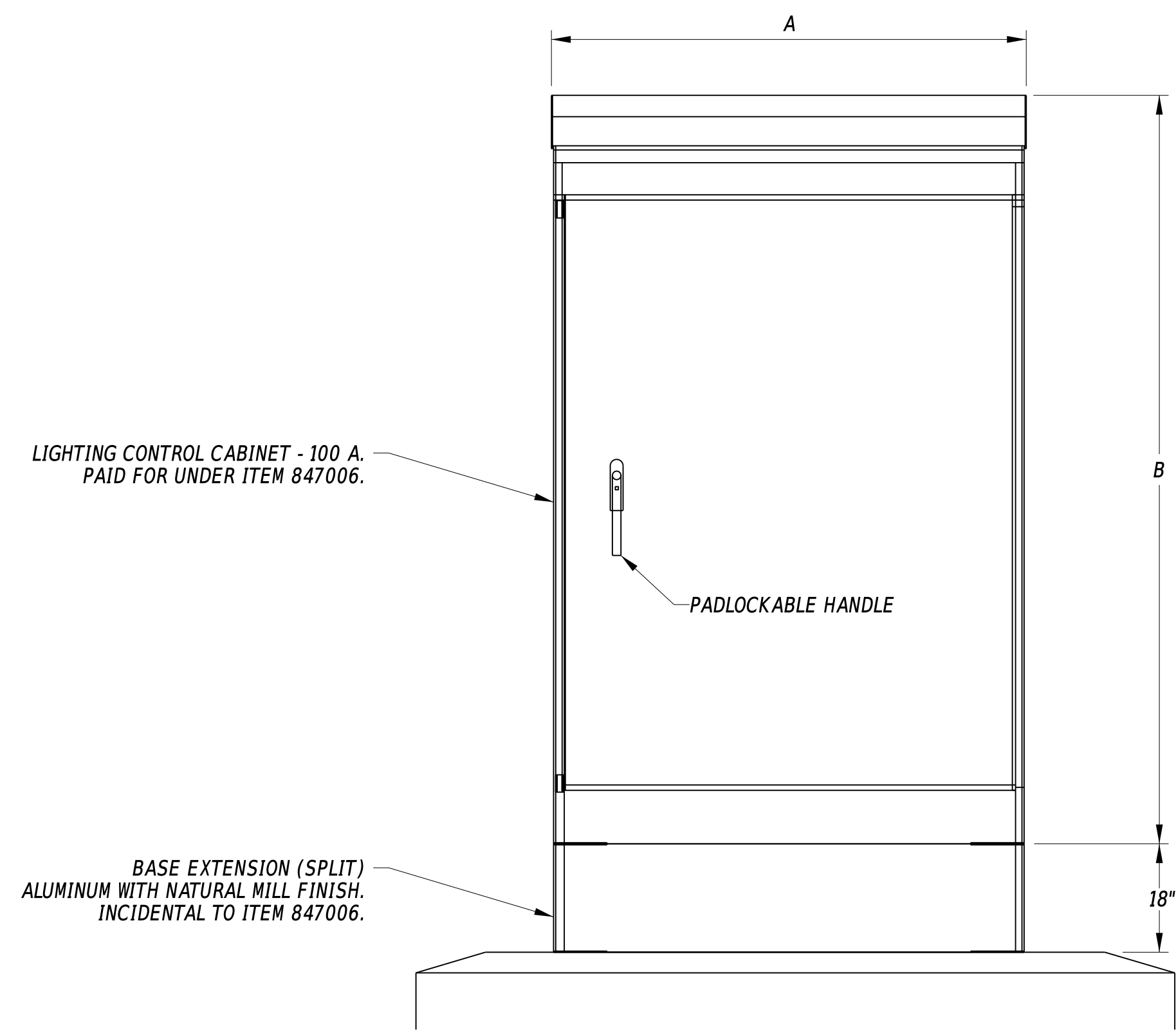
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ADDENDA / REVISIONS	NOT TO SCALE	HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS	CONTRACT T202104204	BRIDGE NO. N/A	LIGHTING DETAILS & SCHEDULE	SECTION CEN
			COUNTY KENT	DESIGNED BY: A. HALLER		SHEET NO. 49
				CHECKED BY: L. HAXTON		

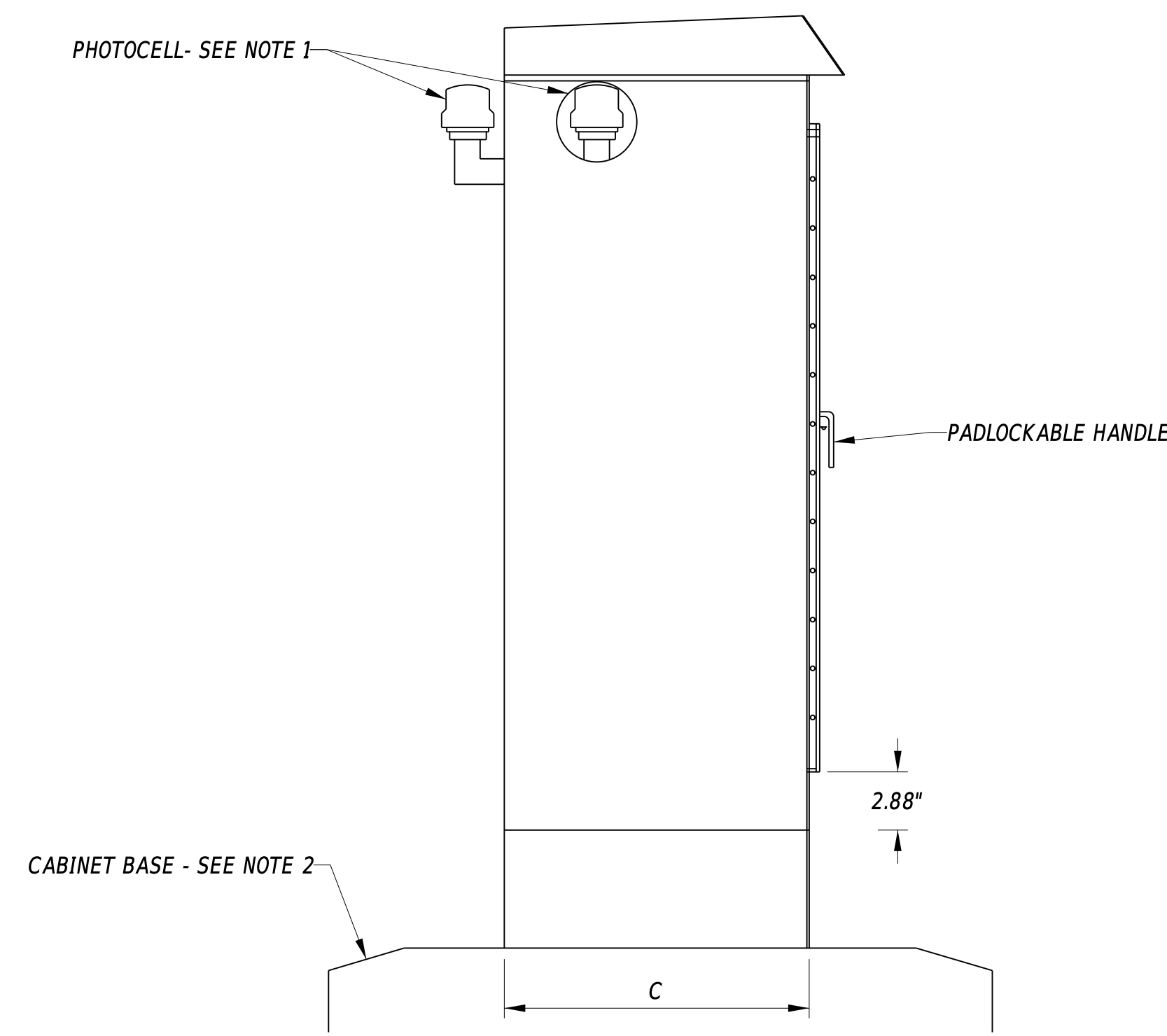
CABINET TYPE		
DIM.	TYPE R	TYPE M
A	44"	30"
B	77"	51"
C	25.5"	16.88"

NOTES:

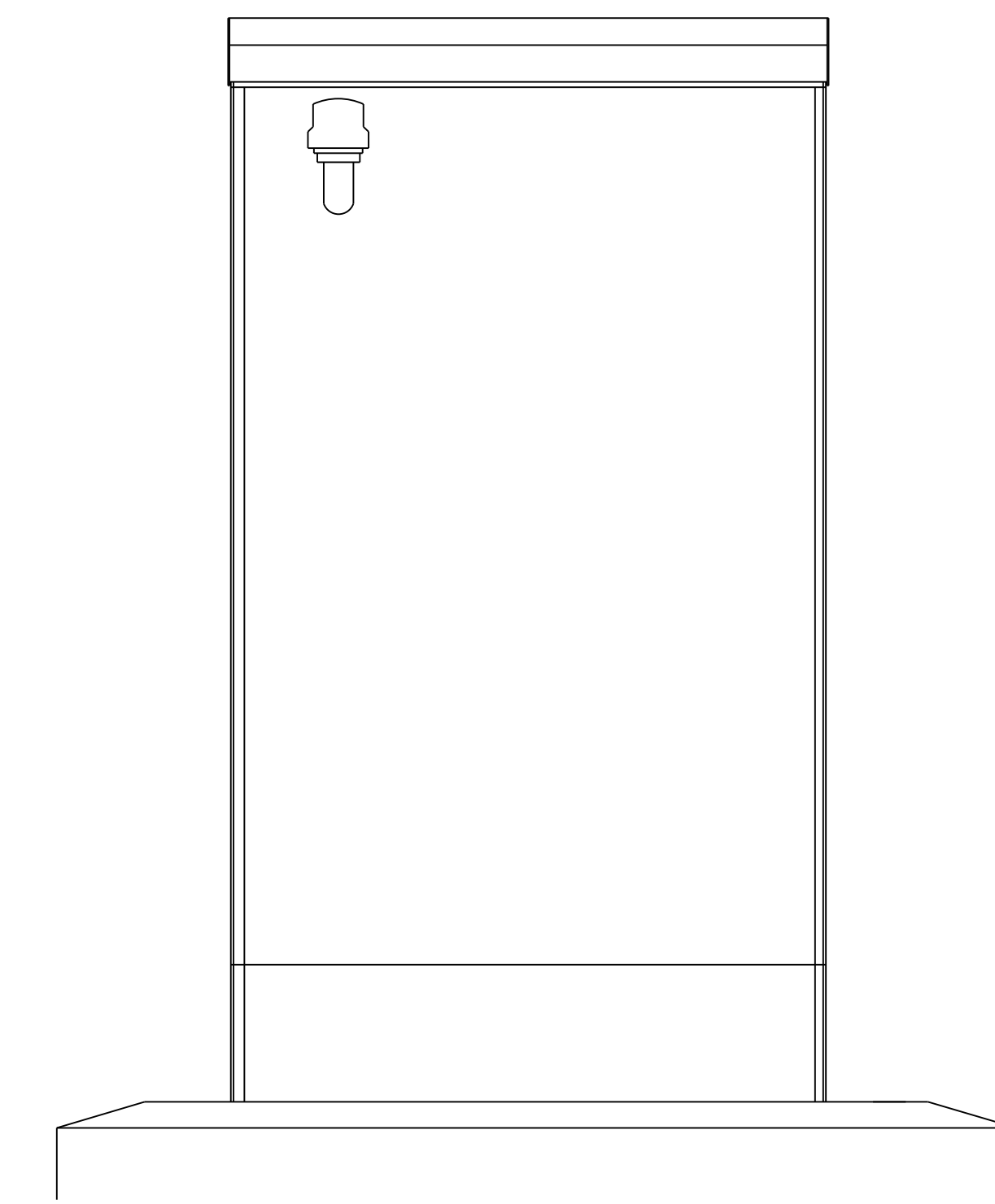
1. PHOTOCELL SHALL BE MOUNTED ON BACK OR SIDE OF CABINET ON 90 DEGREE CONDUIT FITTING TO AVOID VEHICLE HEADLIGHT GLARE. PHOTOCELLS CAN ALSO BE INSTALLED INSIDE OF THE CABINET, BEHIND A PLEXI-GLASS SHIELD.
2. REFER TO STANDARD DETAILS FOR CABINET BASE DETAILS.
3. CABINET SHALL BE NEMA 4X AND SHALL BE FABRICATED FROM 0.125 5052-H32 ALUMINUM.
4. METER AND LOAD-SIDE DISCONNECT SWITCH TO BE MOUNTED SEPARATELY FROM CABINET. REFER TO STANDARD DETAILS FOR PEDESTAL DETAILS. WORK TO BE PAID UNDER ITEM 842007 - PROVIDE AND INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240.
5. REFER TO LIGHTING PLANS FOR LIGHTING CABINET LAYOUT AND WIRING DIAGRAM.



**LIGHTING CABINET - FRONT VIEW**



**LIGHTING CABINET - SIDE VIEW**



**LIGHTING CABINET - BACK VIEW**

LIGHTING CONTROL CABINET - 100 A.  
PAID FOR UNDER ITEM 847006.

PADLOCKABLE HANDLE

BASE EXTENSION (SPLIT)  
ALUMINUM WITH NATURAL MILL FINISH.  
INCIDENTAL TO ITEM 847006.

B

18"

A

PHOTOCELL - SEE NOTE 1

PADLOCKABLE HANDLE

CABINET BASE - SEE NOTE 2

2.88"

C

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ADDENDA / REVISIONS

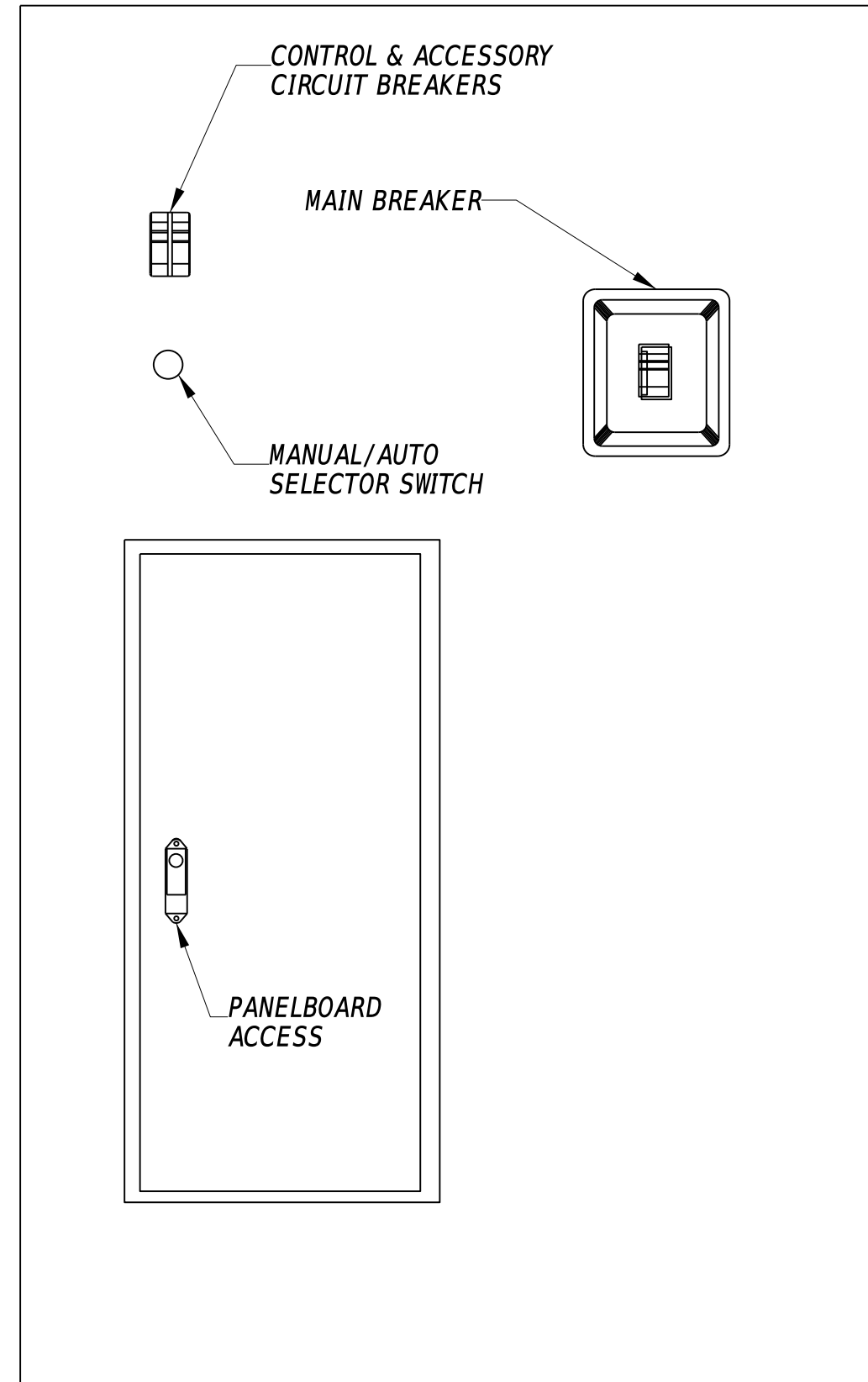
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**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

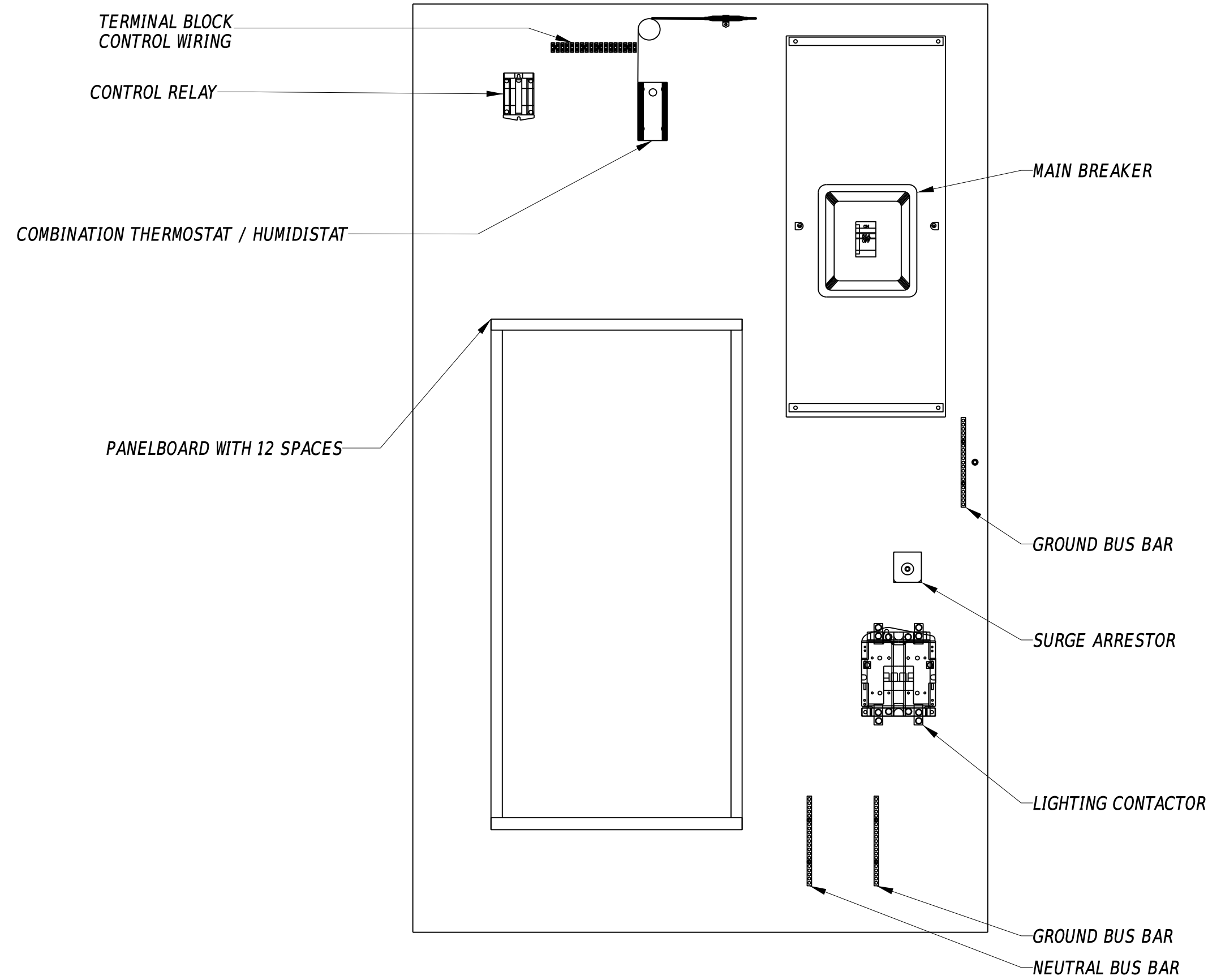
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**LIGHTING DETAILS  
& SCHEDULE**

SECTION
CEN
SHEET NO.
50



**DEAD FRONT PANEL LAYOUT**



**BACK PANEL LAYOUT**

**LIGHTING CABINET LAYOUT**

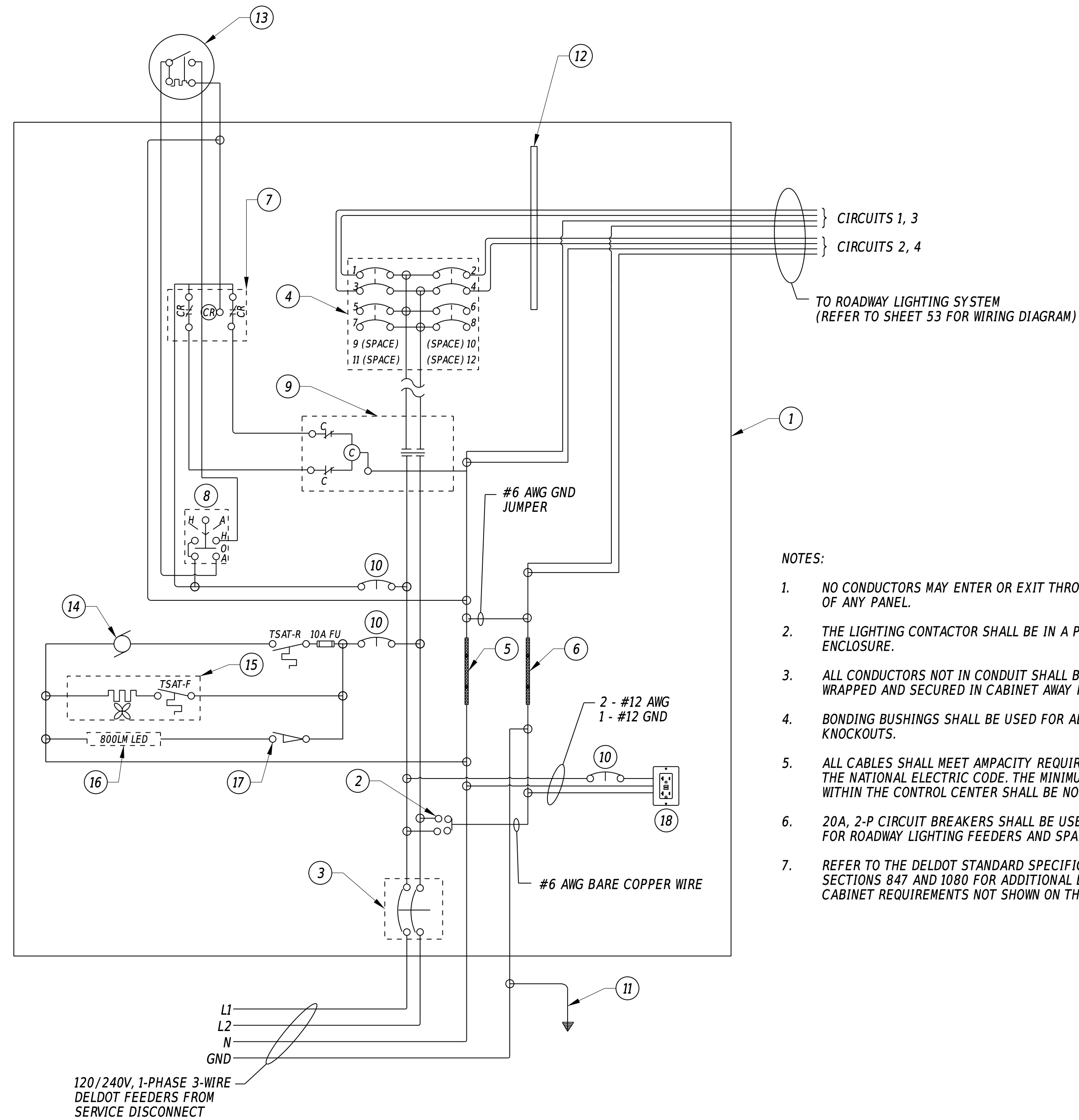
N.T.S.

**NOTES:**

1. SINGLE PHASE LIGHTING CABINET COMPONENTS SHALL BE RATED AS FOLLOWS:  
 CONTROL & ACCESSORY CIRCUIT BREAKERS - 15 AMP, 120 VAC  
 MAIN BREAKER - 100 A, 120 VAC, 1PH, 2-POLE  
 CONTROL RELAY - 120 VAC  
 SURGE ARRESTOR - 1PH, 3W, 120/240 VAC  
 LIGHTING CONTACTOR - 100 A, 120 VAC, 2-POLE  
 PANELBOARD - 120/240 VAC, 1PH, 3W, 100 A  
 PHOTOCELL - 120 VAC  
 THERMOSTAT/HUMIDISTAT - 120 VAC  
 FAN - 120 VAC
2. BRANCH CIRCUIT BREAKERS SHALL BE BOLT-IN COMMERCIAL GRADE CAPABLE OF ACCEPTING UP TO A #2 AWG CONDUCTOR WIRE. TERMINAL BLOCKS SHALL BE USED IF CONDUCTOR WIRES ARE LARGER THAN #2 AWG.
3. REFER TO LIGHTING CABINET WIRING DIAGRAMS SHEETS FOR LIGHTING CONTROL CENTER WIRING DIAGRAM.

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ADDENDA / REVISIONS		NOT TO SCALE	<b>HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">CONTRACT</td> <td style="font-size: 8px;">BRIDGE NO.</td> <td style="text-align: center; font-weight: bold;">N/A</td> </tr> <tr> <td style="font-size: 8px;">T202104204</td> <td style="font-size: 8px;">DESIGNED BY:</td> <td style="font-size: 8px;">A. HALLER</td> </tr> <tr> <td style="font-size: 8px;">COUNTY</td> <td style="font-size: 8px;">CHECKED BY:</td> <td style="font-size: 8px;">L. HAXTON</td> </tr> <tr> <td style="font-size: 8px;">KENT</td> <td></td> <td></td> </tr> </table>	CONTRACT	BRIDGE NO.	N/A	T202104204	DESIGNED BY:	A. HALLER	COUNTY	CHECKED BY:	L. HAXTON	KENT			<b>LIGHTING DETAILS &amp; SCHEDULE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">SECTION</td> </tr> <tr> <td style="text-align: center;">CEN</td> </tr> <tr> <td style="font-size: 8px;">SHEET NO.</td> </tr> <tr> <td style="text-align: center;">51</td> </tr> </table>	SECTION	CEN	SHEET NO.	51
CONTRACT	BRIDGE NO.	N/A																				
T202104204	DESIGNED BY:	A. HALLER																				
COUNTY	CHECKED BY:	L. HAXTON																				
KENT																						
SECTION																						
CEN																						
SHEET NO.																						
51																						



**120/240 VOLT  
LIGHTING CONTROL CENTER  
WIRING DIAGRAM**

**LIGHTING CONTROL DIAGRAM LEGEND**

CONTRACTOR SHALL SUPPLY AND INSTALL ALL MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION. COMPLY WITH DELDOT STANDARD FOR ALL COMPONENTS PROVIDED. THE FOLLOWING ITEMS ARE TYPICAL FOR EACH LIGHTING CONTROL CABINET:

1. LIGHTING CABINET ENCLOSURE (REFER TO LIGHTING DETAILS & SCHEDULE SHEETS FOR MORE INFORMATION)
2. SQUARE D SECONDARY SURGE ARRESTOR
3. SQUARE D HDL26100 HD150 100 AMP ENCLOSED MAIN CIRCUIT BREAKER
4. SQUARE D NO PANEL, 100A, 120/240V, 1 PHASE, 3-WIRE (12 SPACES) WITH FOUR SQUARE D, 20A 2P CIRCUIT BREAKERS
5. SQUARE D SNI00FA NEUTRAL BAR
6. SQUARE D PKOGTA2 GROUND BAR (OR AS APPROPRIATE BASED ON # OF CIRCUITS)
7. SQUARE D 9001KY1 CONTROL STATION
8. SQUARE D 9001KS43BH13 HOA SELECTOR SWITCH MOUNTED ON DOOR OF LIGHTING CONTACTOR
9. SQUARE D 8903SQGIV02C CONTACTOR
10. SQUARE D QOU120 CIRCUIT BREAKER, DIN RAIL MOUNTED
11. 3/4" DIA. X 10' LONG GROUND ROD (OUTSIDE CABINET BASE)
12. TERMINAL BLOCKS (ONLY USE WHEN CABLE SIZE IS LARGER THAN #2 AWG)
13. INTERMATIC C4536LAC PHOTOCELL WITH TWIST-LOCK RECEPTACLE
14. APX COOLING FAN KIT WITH THERMOSTAT AND INTAKE WASHABLE FILTER
15. HOFFMAN PANEL HEATER DAH4001B, FAN BLOWER TYPE WITH INTEGRAL THERMOSTAT
16. HOFFMAN 800 LUMENS LED ENCLOSURE LIGHT KIT
17. APX DOOR SWITCH FOR CABINET LIGHTING
18. 20A GFCI SINGLE GANG RECEPTACLE, PHOENIX CONTACT EM-DUO 120/20/GFI-5602519

MISCELLANEOUS ITEMS NOT SHOWN ON DIAGRAM:

19. DIN RAILS.
20. NON-METALLIC WIREWAYS AND COVERS
21. BUSSMANN FUSES AND CH MODULAR, IP20, DIN RAIL MOUNTED FUSE HOLDERS

**NOTES:**

1. NO CONDUCTORS MAY ENTER OR EXIT THROUGH THE REAR OF ANY PANEL.
2. THE LIGHTING CONTACTOR SHALL BE IN A PROPERLY SIZED ENCLOSURE.
3. ALL CONDUCTORS NOT IN CONDUIT SHALL BE BUNDLED OR WRAPPED AND SECURED IN CABINET AWAY FROM SHARP EDGES.
4. BONDING BUSHINGS SHALL BE USED FOR ALL CONCENTRIC KNOCKOUTS.
5. ALL CABLES SHALL MEET AMPACITY REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. THE MINIMUM CABLE SIZE WITHIN THE CONTROL CENTER SHALL BE NO. 12 AWG.
6. 20A, 2-P CIRCUIT BREAKERS SHALL BE USED IN PANEL FOR ROADWAY LIGHTING FEEDERS AND SPARES.
7. REFER TO THE DELDOT STANDARD SPECIFICATIONS, SECTIONS 847 AND 1080 FOR ADDITIONAL LIGHTING CONTROL CABINET REQUIREMENTS NOT SHOWN ON THIS DETAIL.

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

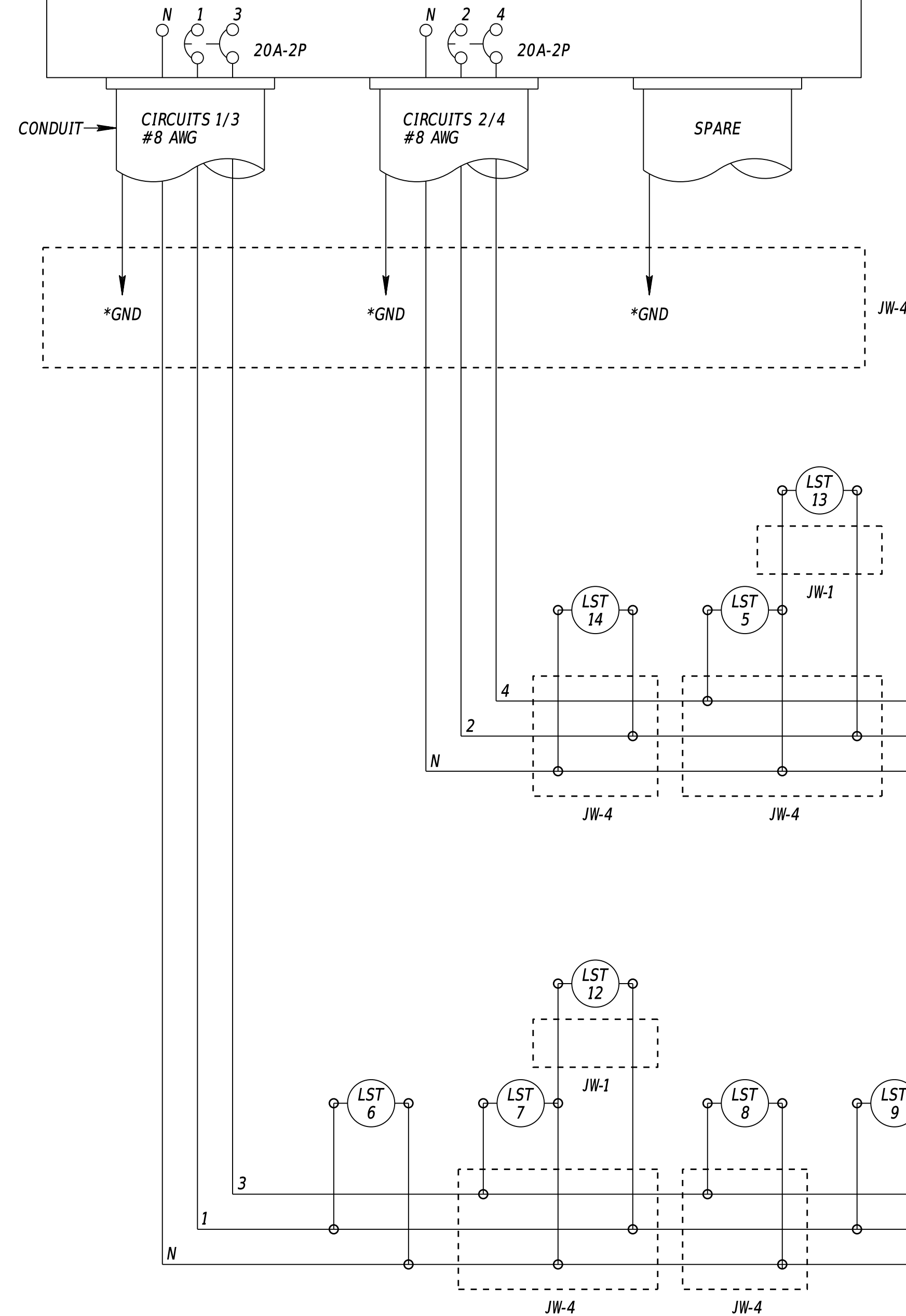
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T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**LIGHTING DETAILS  
& SCHEDULE**

SECTION
CEN
SHEET NO.
52

# LIGHTING CONTROL CABINET A

(REFER TO SHEETS 51 AND 52 FOR MORE INFORMATION)



# CIRCUIT SCHEMATIC FOR LIGHTING CONTROL CABINET A (309+42, 67' L)

## SCHEDULE OF PANEL A (309+42, 67' L)

120/240V  
1 PHASE, 3-WIRE + GND  
100 AMP MLO

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS
		KW	AMPS		NO. OF POLES	FRAME SIZE	TRIP SIZE	
1	PHASE A - 1, 6, 9, 11, 12, 16	0.486	4.05	1 120	2	100	20	6 - 81 WATT LED
3	PHASE B - 3, 7, 8, 10, 15	0.405	3.375	1 120		100	20	5 - 81 WATT LED
5	SPARE	-	-	1 120	2	100	20	
7	SPARE	-	-	1 120		100	20	
9	SPACE							
11	SPACE							

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD		PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS			REMARKS
		KW	AMPS		NO. OF POLES	FRAME SIZE	TRIP SIZE	
2	PHASE A - 2, 13, 14	0.243	2.025	1 120	2	100	20	3 - 81 WATT LED
4	PHASE B - 4, 5	0.162	1.35	1 120		100	20	2 - 81 WATT LED
6	SPARE	-	-	1 120	2	100	20	
8	SPARE	-	-	1 120		100	20	
10	SPACE							
12	SPACE							

**NOTE:**

\* EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN FOR CLARITY. INCLUDE GROUNDING CONDUCTOR IN ALL CONDUITS, AS INDICATED IN THE LIGHTING CONDUIT RUN SCHEDULES. GROUNDING CONDUCTOR HAS BEEN SIZED TO ACCOUNT FOR VOLTAGE DROP CONSIDERATIONS.

**LEGEND:**

○ (LST ##) ○ LIGHT STANDARD WITH 150W HPS EQUIVALENT (81 WATTS)

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

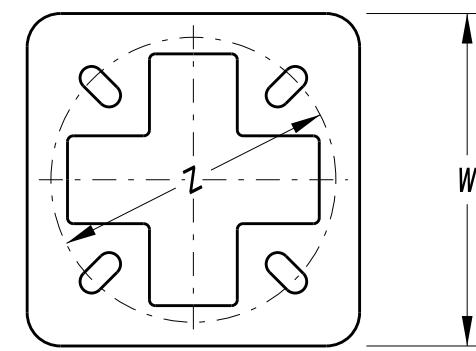
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

LIGHTING DETAILS  
& SCHEDULE

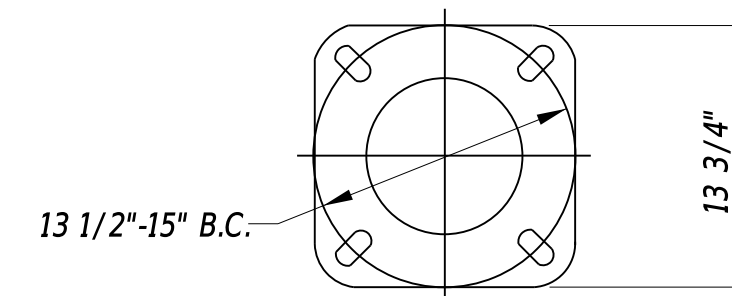
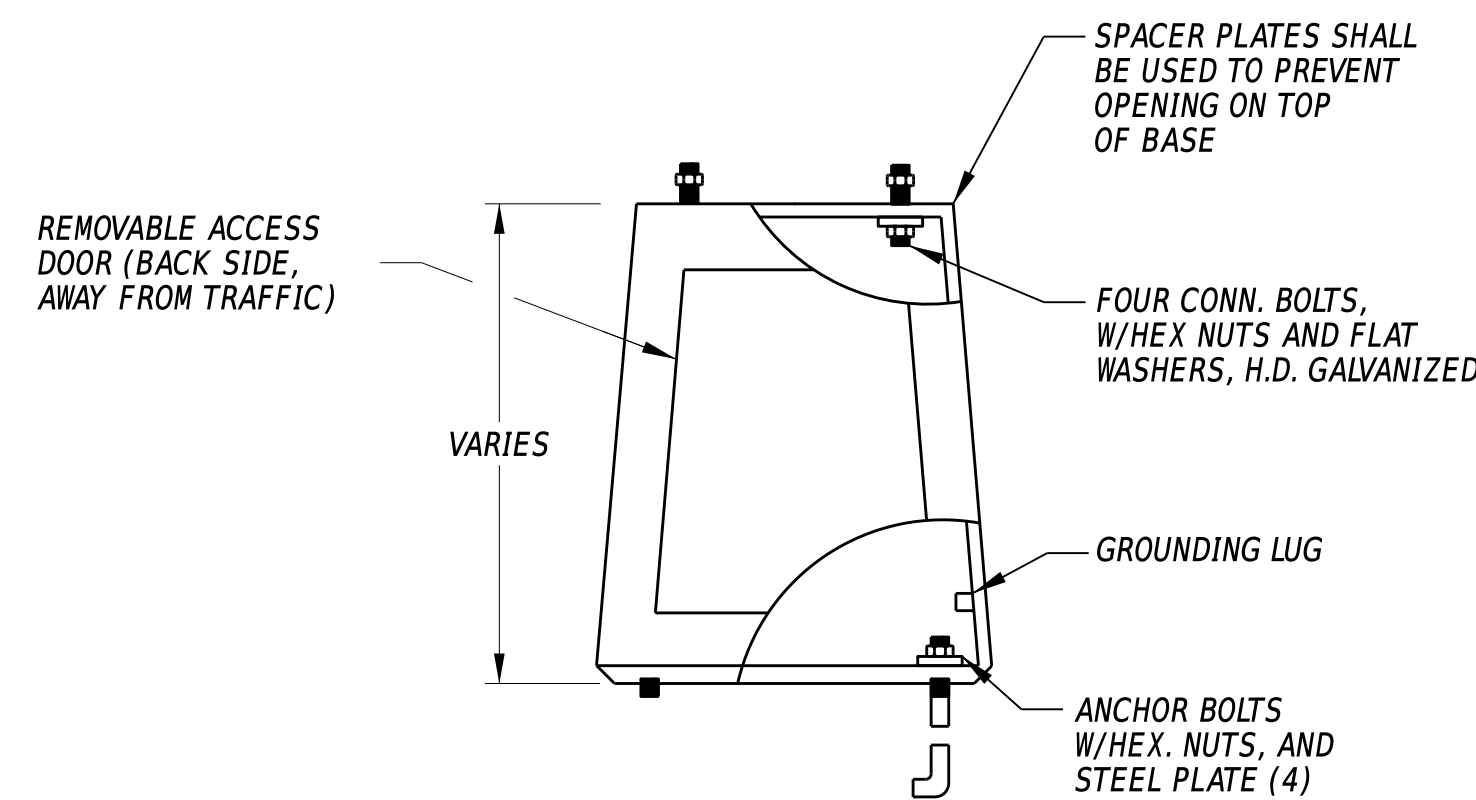
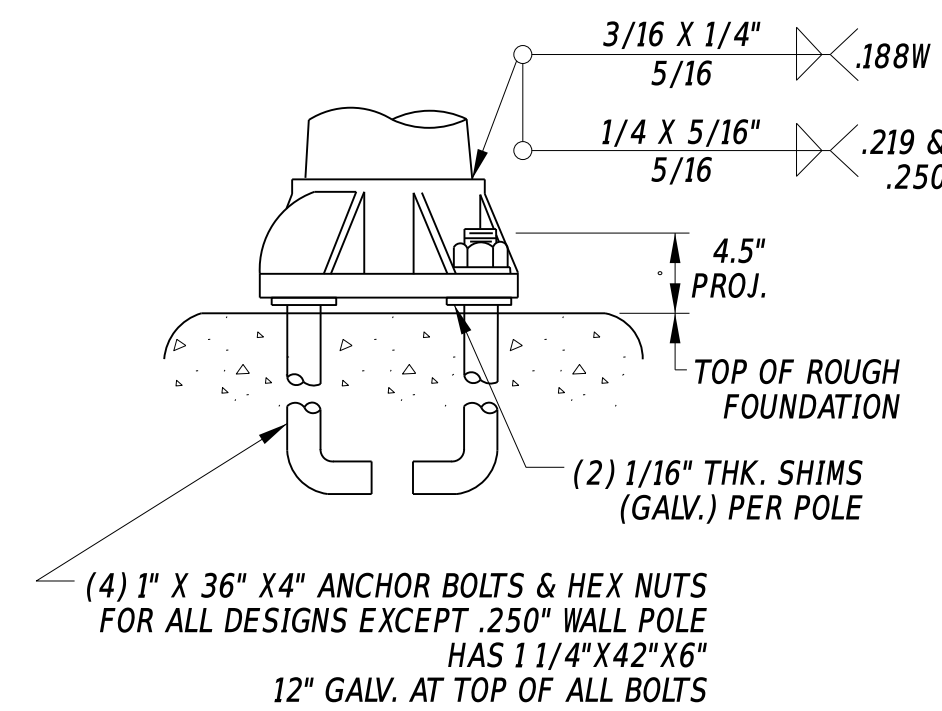
SECTION  
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SHEET NO.  
53



MOUNTING HEIGHT	ARM LENGTH	MIN WIDTH 'W'	BOLT DIA.	BOLT CIRCLE 'Z'
LESS THAN 40'	LESS THAN 30'	13"	1"	13 <sup>59</sup> / <sub>64</sub> "

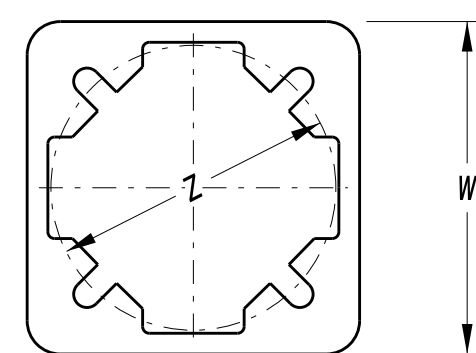


**TOP VIEW**



**ANCHOR BASE DETAIL**

N.T.S.



**BOTTOM VIEW**

**CONSTRUCTION NOTES:**

- ALUMINUM TRANSFORMER BASE SHALL MEET THE CURRENT AASHTO BREAKAWAY REQUIREMENTS.
- BREAKAWAY TRANSFORMER BASES SHALL BE INSTALLED WITH ALL POLES, UNLESS OTHERWISE NOTED.
- OPENING OF TRANSFORMER BASE ACCESS DOOR SHALL BE INSTALLED ON THE SIDE OF THE POLE FACING AWAY FROM TRAFFIC.
- PROVIDE ACCESSIBLE GROUNDING NUT OR LUG INSIDE TRANSFORMER BASE.
- PROVIDE WASHERS, SHIMS AND BOLTS AS REQUIRED BY TRANSFORMER BASE MANUFACTURER.
- THE CONTACT AREA BETWEEN THE TRANSFORMER BASE AND CONCRETE FOUNDATION SHALL BE SHOP COATED WITH COAL TAR EPOXY MEETING SSPC-PAINT 16 SPECIFICATIONS. THE THICKNESS OF THE COATING SHALL BE BETWEEN 6 AND 8 MILS. THE COATING SHALL BE COMPLETELY DRY BEFORE INSTALLATION. THE TOP OF THE FOUNDATION SHALL NOT BE PAINTED.
- TOP AND BOTTOM OF BASE MAY BE SLOTTED FOR BOLT CIRCLE. SLOT MUST ACCOMMODATE DIMENSION SHOWN.
- TRANSFORMER BASE AND ASSOCIATED COMPONENTS SHALL MEET THE FOLLOWING MATERIAL REQUIREMENTS:

**MATERIAL SPECIFICATION**

POLE & DAVIT TUBES	6063-T6
ANCHOR BASE	AA356-T6
BOLT COVERS	AA356
ANCHOR BOLT NUTS	ASTM-A563 GR.A
ANCHOR BOLTS	ASTM-F1554 GR55
STN.STL.HARDWARE	AISI-300 SERIES SST
TRANSFORMER BASE	AA356-T6
T-BASE HARDWARE	ASTM-A325 GALV.

**LIGHTING STANDARD ON BREAKWAY TRANSFORMER BASE**

N.T.S.

ADDENDA / REVISIONS

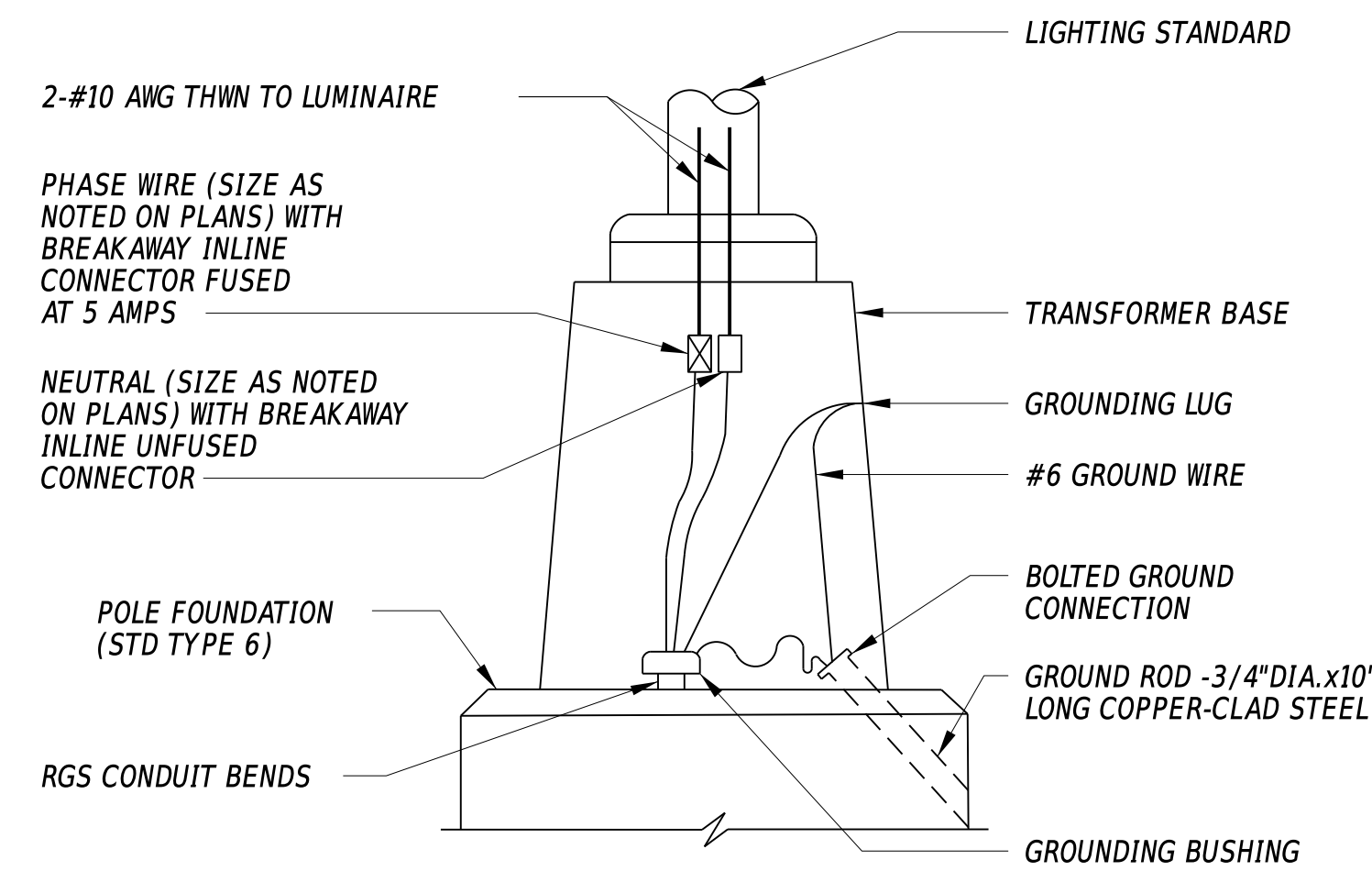
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**HEP KC, SR15/KENTON RD. AT  
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INTERSECTION IMPROVEMENTS**

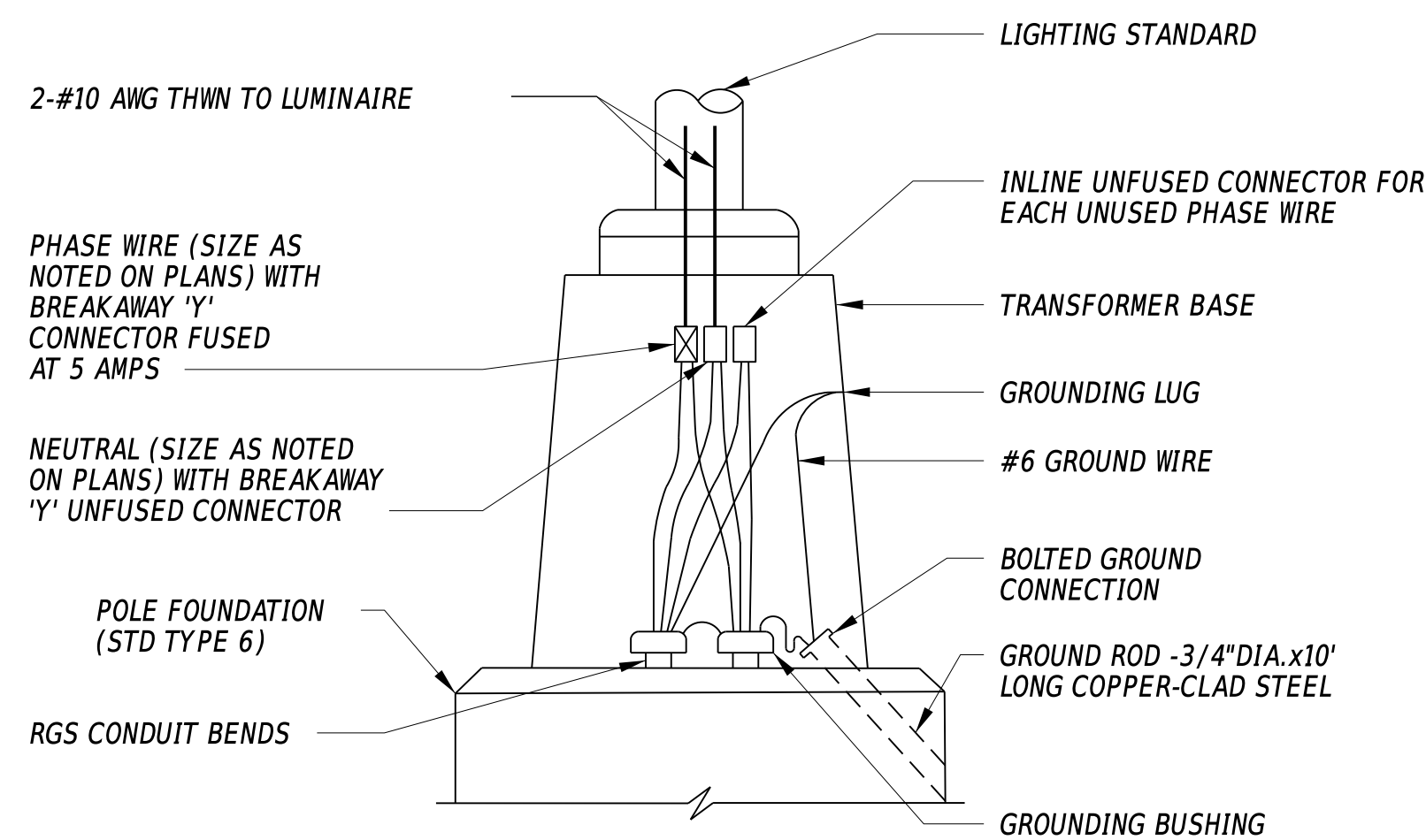
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KENT		

**LIGHTING DETAILS  
& SCHEDULE**

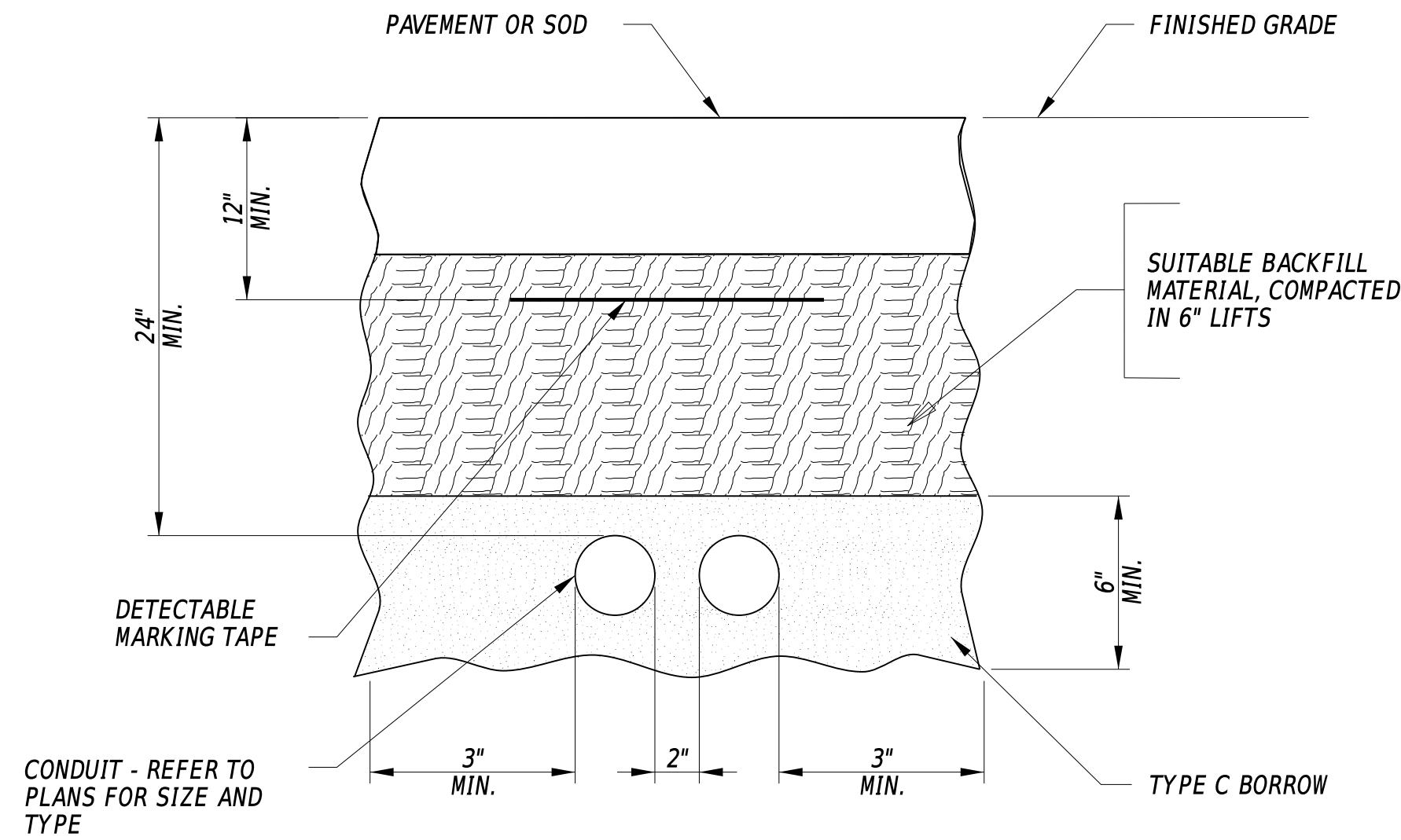
SECTION
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SHEET NO.
55



**TYPICAL LUMINAIRE CONNECTION  
END OF CABLE RUN  
120/240 VOLT**  
N.T.S.



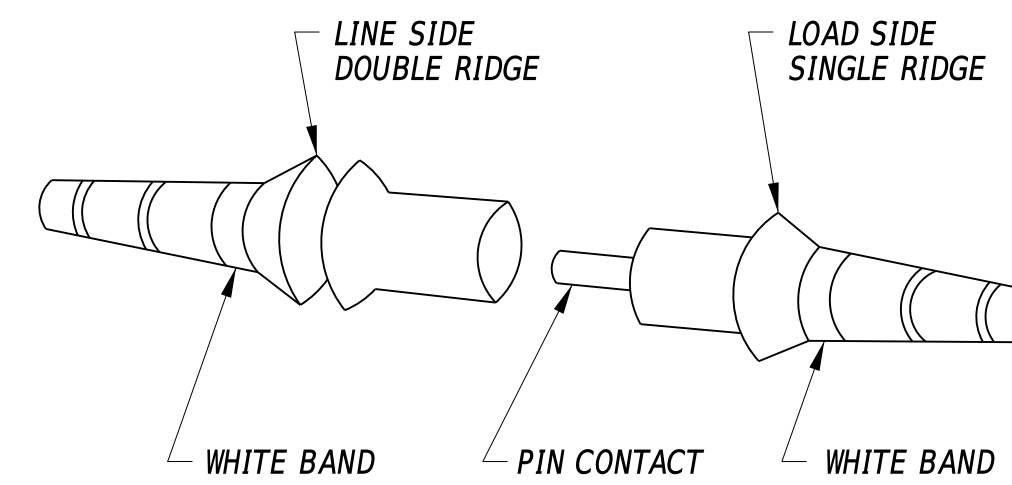
**TYPICAL LUMINAIRE CONNECTION  
CONTINUOUS CABLE RUN  
120/240 VOLT**  
N.T.S.



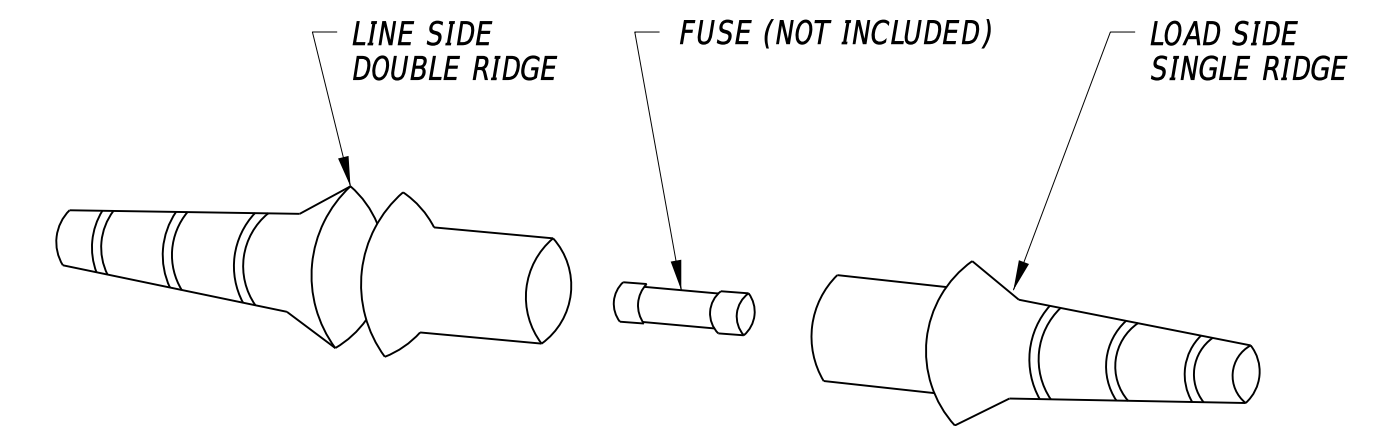
**BURIED CONDUIT DETAIL**  
N.T.S.

**NOTES:**

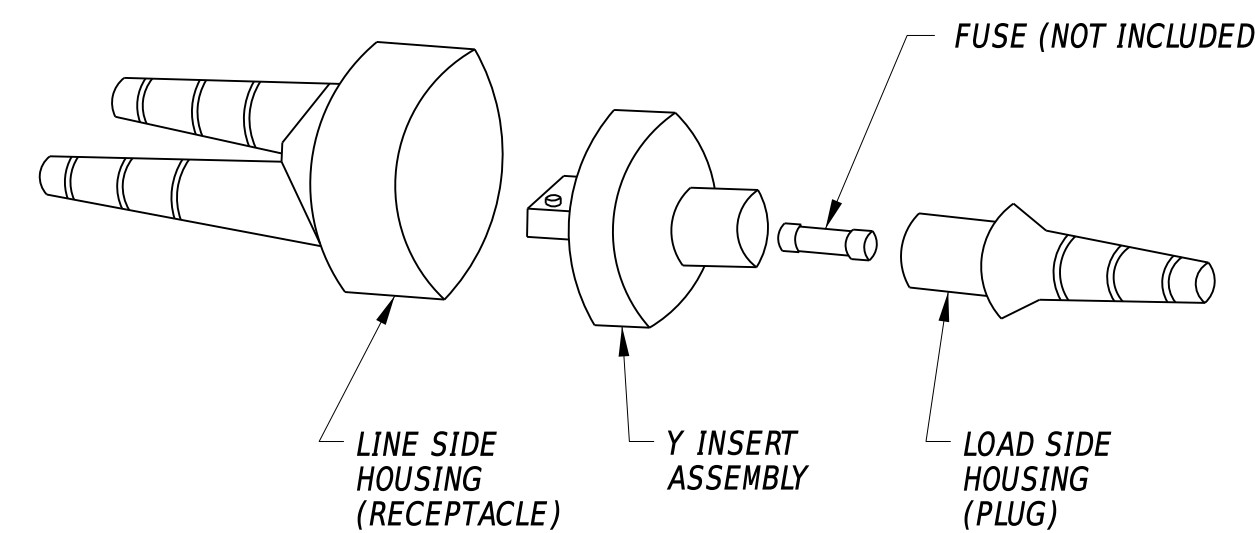
1. QUICK DISCONNECT CONNECTOR KITS SHALL HAVE BUILT-IN BREAKAWAY DESIGN TO ELIMINATE DE-ENERGIZATION OF COMPLETE CIRCUITS AND EXPOSED WIRES IN THE EVENT OF A KNOCKDOWN.
2. CONNECTOR KITS SHALL BE USED IN THE TRANSFORMER BASE OF LIGHTING STANDARDS TO SPLICE BRANCH CIRCUIT CONDUCTORS WITH THE LUMINAIRE CONDUCTORS.
3. IF NECESSARY, TYPE IV KITS MAY BE USED IN JUNCTION WELLS TO Y-SPLICE BRANCH CIRCUIT CONDUCTORS WHEN LIGHTING CIRCUIT DESIGN DICTATES A NEED FOR SUCH A SPLICE.
4. NEUTRAL WIRES SHALL NOT BE FUSED AND SHALL ONLY BE SPLICED USING TYPE I AND TYPE IV CONNECTOR KITS.
5. FUSES SHALL BE ORDERED SEPARATELY AND WILL BE INCIDENTAL TO CONNECTOR KITS. FUSES SHALL BE SIZED ACCORDING TO SPECIFIED LIGHTING FIXTURES.
6. REFER TO THE 2022 DELDOT STANDARD SPECIFICATIONS, SECTION 832 FOR ADDITIONAL CONNECTOR KIT REQUIREMENTS.



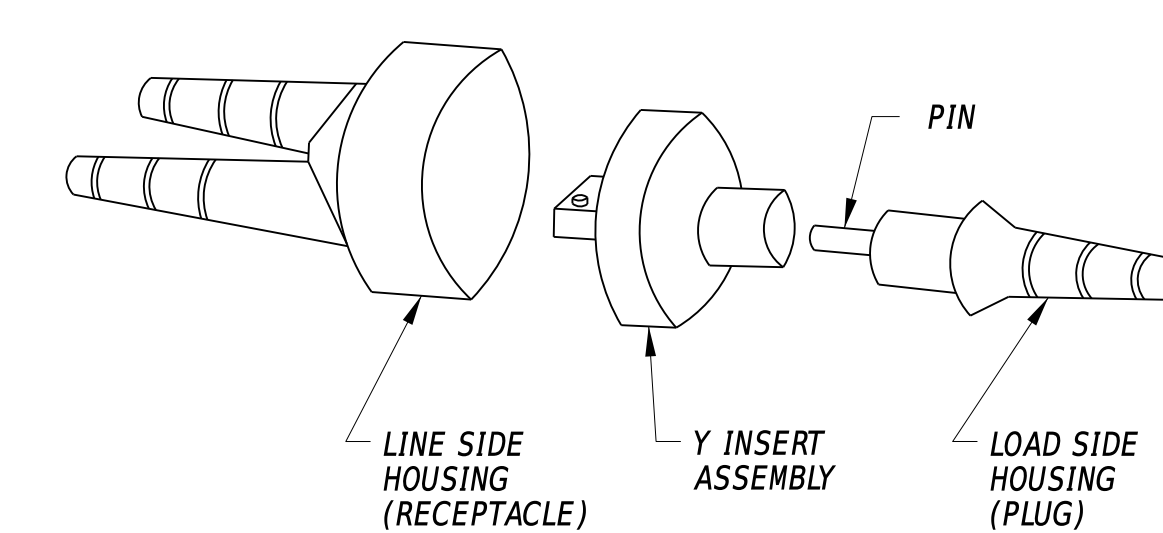
**TYPE I - INLINE NON-FUSED  
CONNECTOR KIT**  
N.T.S.



**TYPE II - INLINE-FUSED  
CONNECTOR KIT**  
N.T.S.



**TYPE III - Y-FUSED  
CONNECTOR KIT**  
N.T.S.



**TYPE IV - NON-FUSED  
CONNECTOR KIT**  
N.T.S.

ADDENDA / REVISIONS

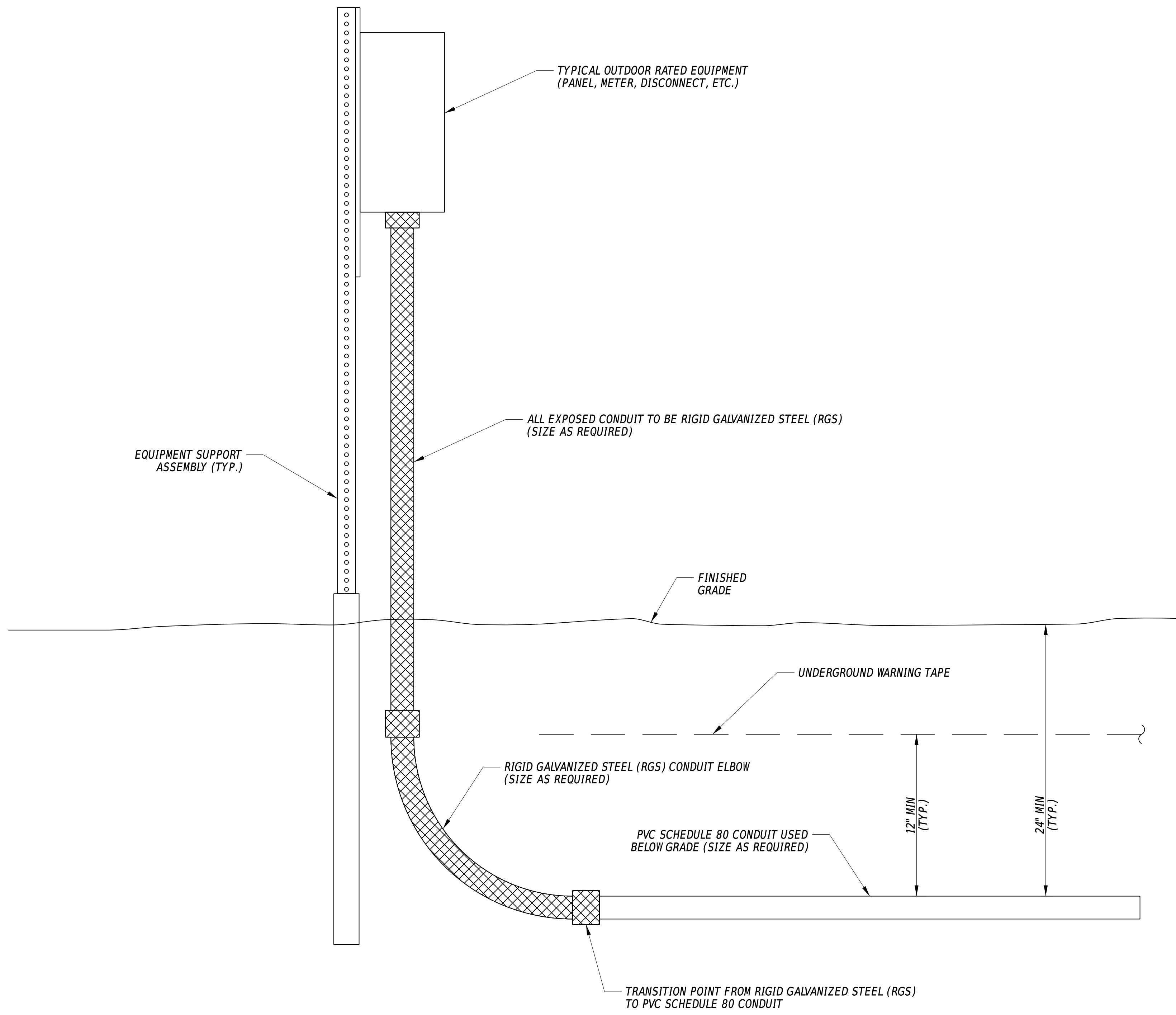
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**HEP KC, SR15/KENTON RD. AT  
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INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
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KENT		

**LIGHTING DETAILS  
& SCHEDULE**

SECTION
CEN
SHEET NO.
56



**RGS TO PVC CONDUIT TRANSITION DETAIL**

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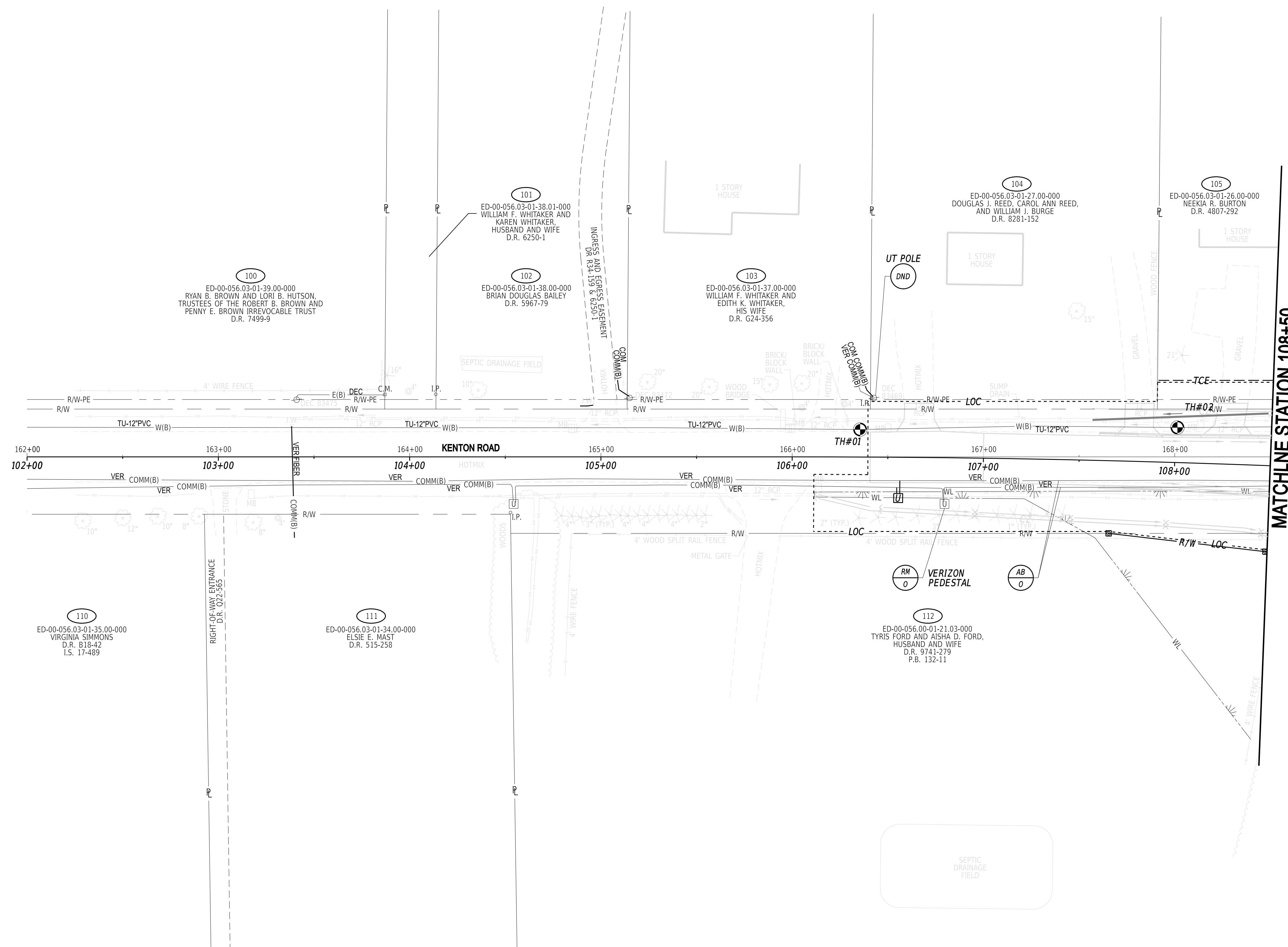
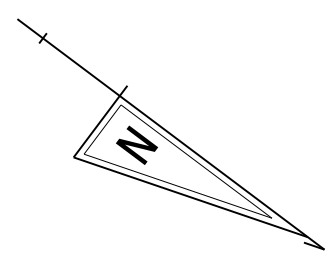
ADDENDA / REVISIONS	

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>LIGHTING DETAILS &amp; SCHEDULE</b>	SECTION
	CEN
	SHEET NO.
	57

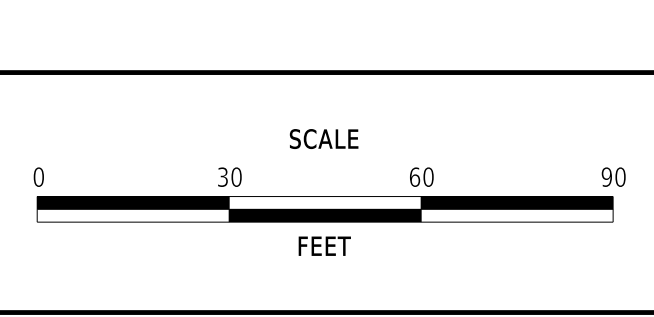


**NOTES:**  
 1. PROPOSED UTILITIES SHALL NOT BE PLACED IN THE BACKSLOPE OF THE DITCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL
TH-01	TU-W	106+35.54	-14.37	48.36	4.23	12" BLUE PLASTIC
TH-02	TU-W	108+00.98	-18.32	47.79	6.15	12" BLUE PLASTIC

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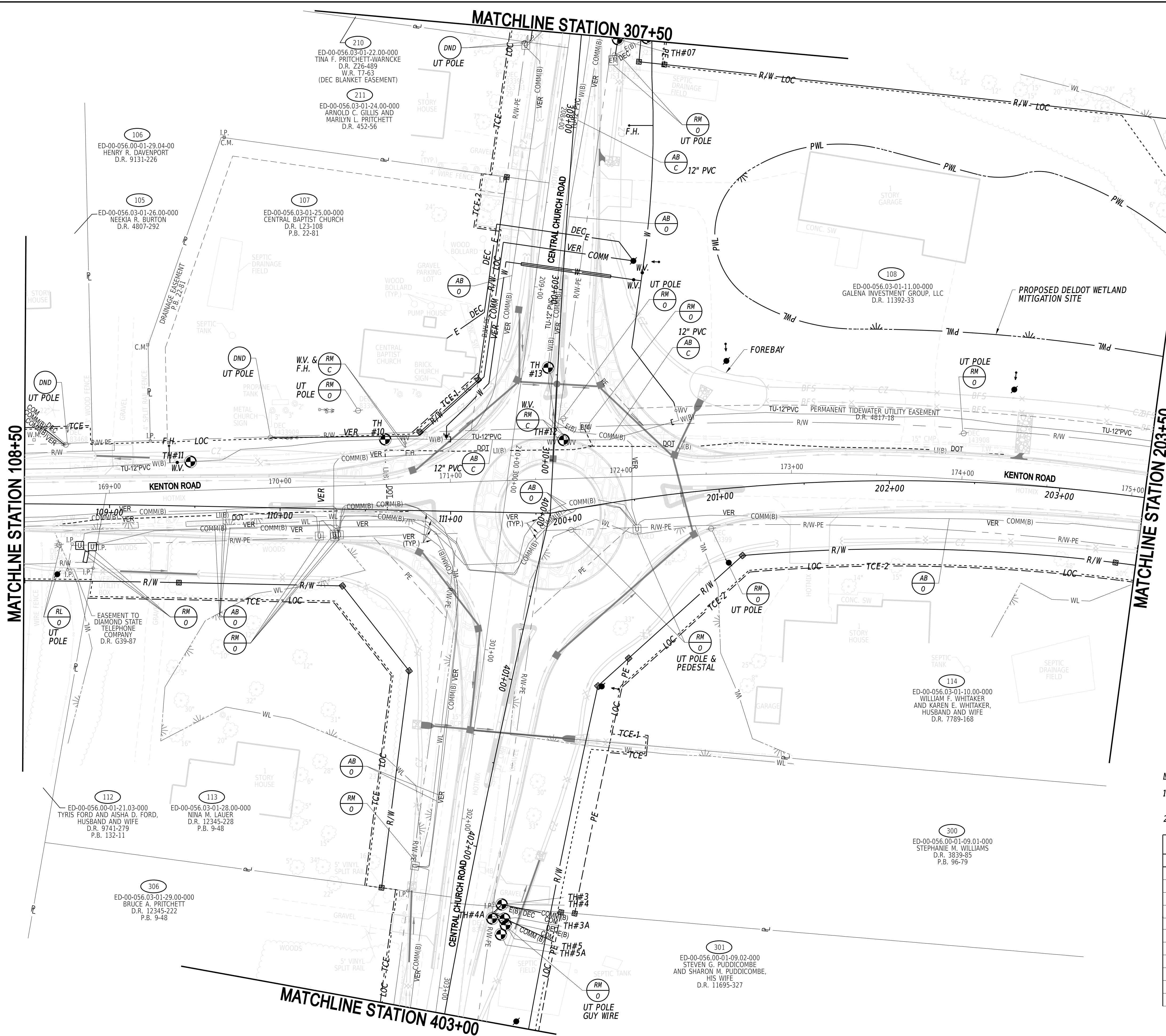
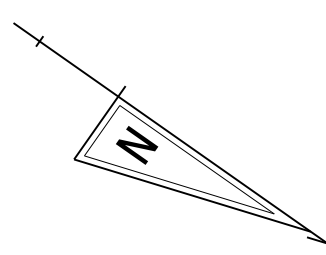
ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
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KENT		

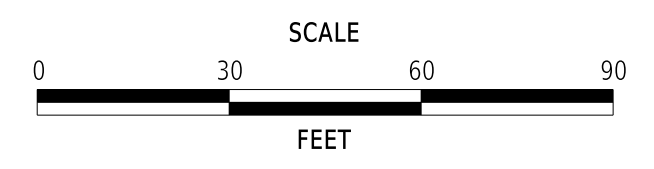
<b>UTILITY RELOCATION PLAN</b>	
SECTION	UT-01
CEN	
SHEET NO.	58



- NOTES:**
1. PROPOSED UTILITIES SHALL NOT BE PLACED IN THE BACKSLOPE OF THE DITCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. SEE TIDEWATER RELOCATION PLANS FOR PROPOSED WATER MAIN RELOCATIONS.

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL
TH-03	COM	402+30.56	-21.01	47.37	0.31	1" BLACK
TH-3A	COM	402+38.54	-24.12	47.67	0.33	1" BLACK
TH-04	DEC	402+30.56	-21.01	47.37	2.61	1" BLACK
TH-4A	DEC	402+39.77	-17.11	47.28	0.93	3" BLACK PLASTIC
TH-05	COM	402+41.97	-25.64	47.79	1.09	1" BLACK
TH-5A	UNK	402+47.99	-23.85	47.80	1.13	1" BLACK
TH-07	COM	308+50.75	-21.51	52.38	0.36	3/4" ORANGE PLASTIC
TH-10	TU-W	110+60.75	-41.35	48.52	6.70	12" BLUE PLASTIC
TH-11	TU-W	109+46.95	-26.00	48.11	4.60	12" BLUE PLASTIC
TH-12	TU-W	309+87.86	-5.62	48.33	4.36	12" PLASTIC PIPE
TH-13	TU-W	309+46.02	5.72	48.38	4.38	12" BLUE PLASTIC

ADDENDA / REVISIONS



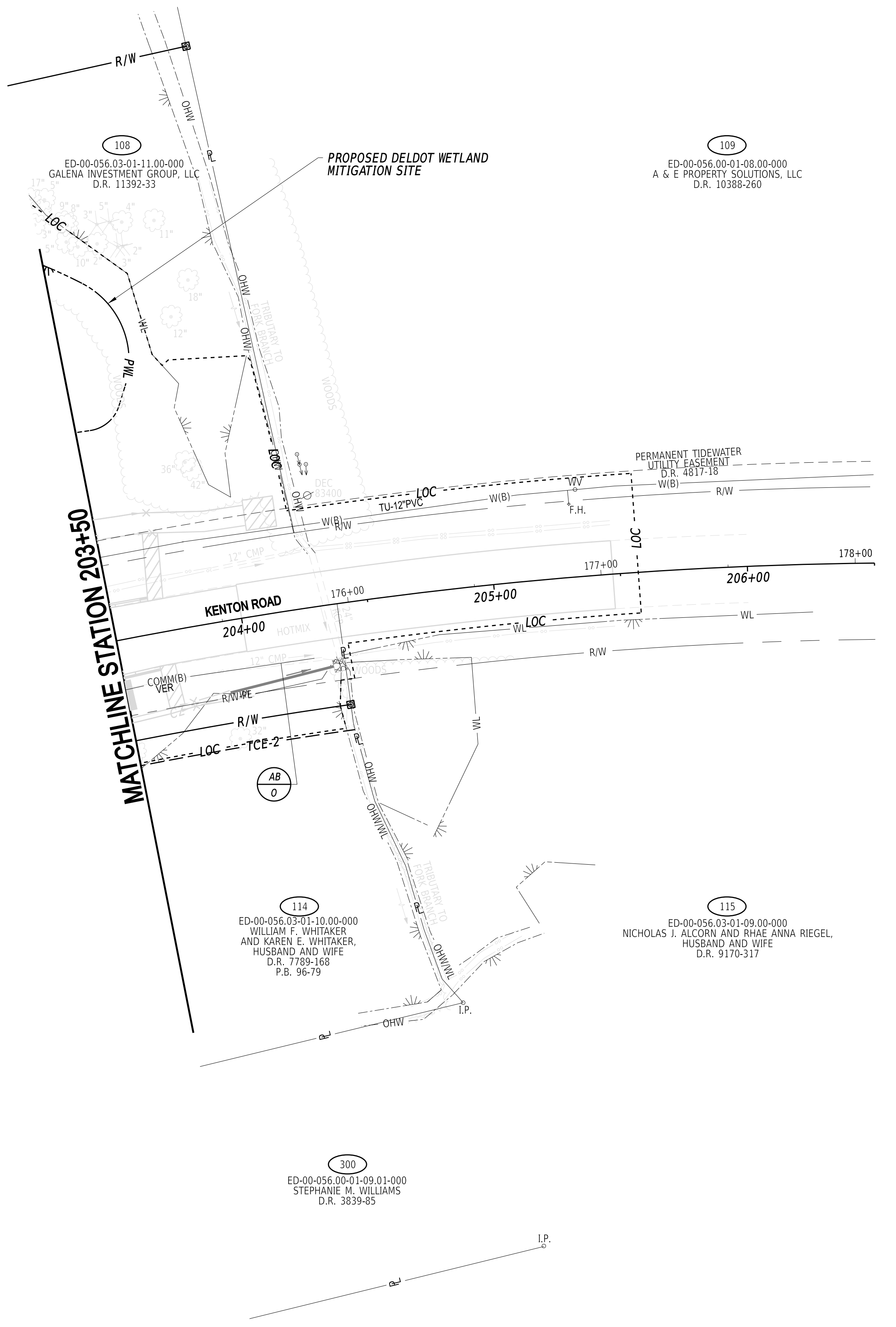
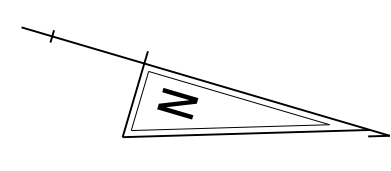
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**UTILITY RELOCATION PLAN**

UT-02
SECTION
CEN
SHEET NO.
59

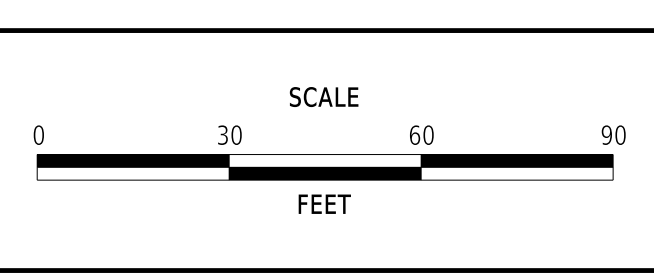
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- NOTES:**
1. PROPOSED UTILITIES SHALL NOT BE PLACED IN THE BACKSLOPE OF THE DITCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. SEE TIDEWATER RELOCATION PLANS FOR PROPOSED WATER MAIN RELOCATIONS.

21-OCT-2025 12:40 \\srm-deloopw21\CS\_pdf\_work\_dir\628332904\_30\UT03\_RDSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS	

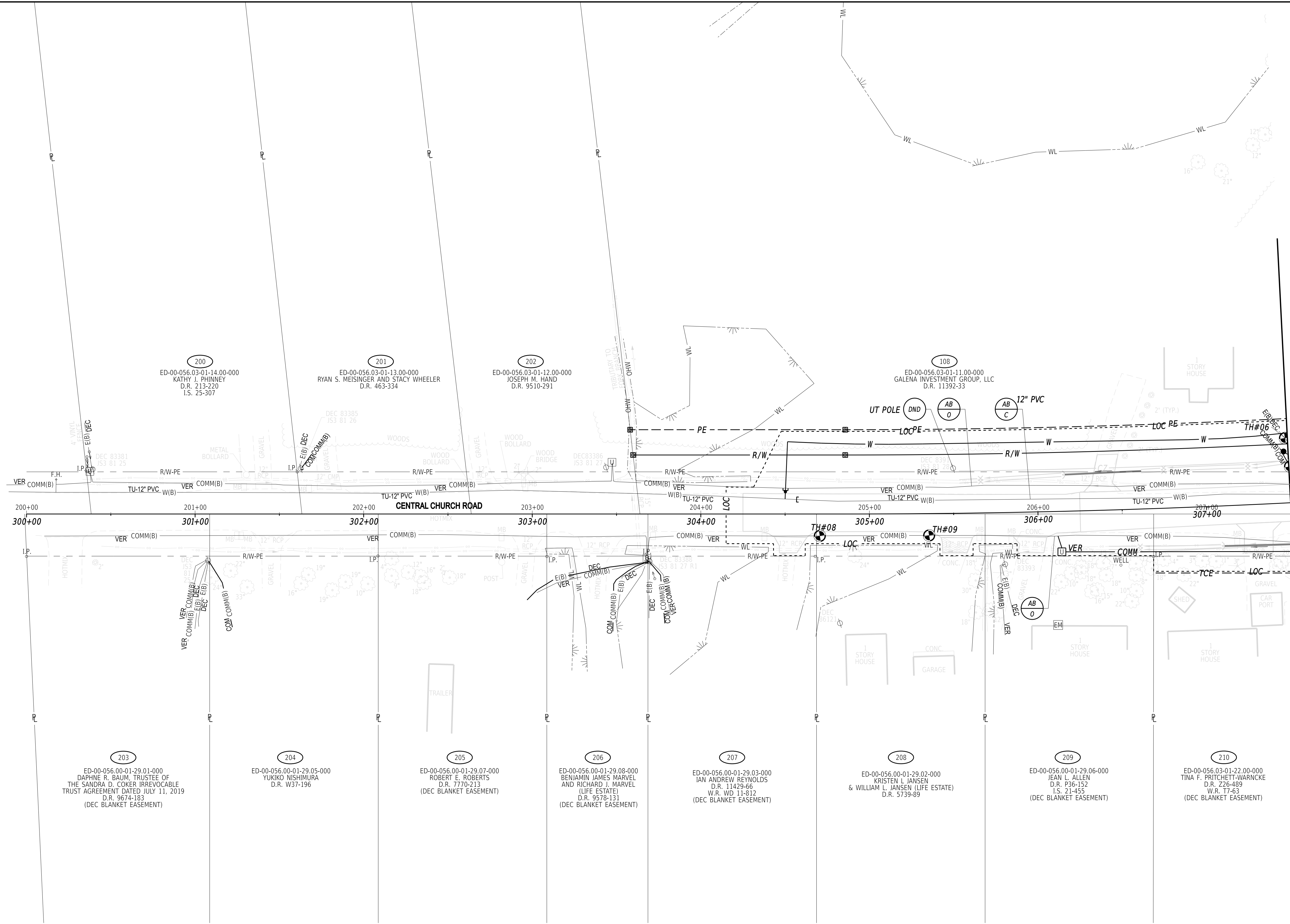
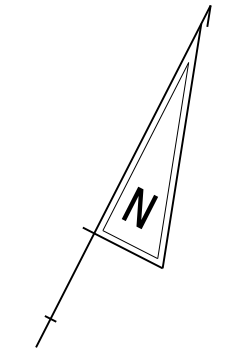


**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>UTILITY RELOCATION PLAN</b>	
SECTION	CEN
SHEET NO.	60

**UT-03**  
 SECTION  
 CEN  
 SHEET NO.  
 60



MATCHLINE STATION 307+50

200  
ED-00-056.03-01-14.00-000  
KATHY J. PHINNEY  
D.R. 213-220  
I.S. 25-307

201  
ED-00-056.03-01-13.00-000  
RYAN S. MEISINGER AND STACY WHEELER  
D.R. 463-334

202  
ED-00-056.03-01-12.00-000  
JOSEPH M. HAND  
D.R. 9510-291

108  
ED-00-056.03-01-11.00-000  
GALENA INVESTMENT GROUP, LLC  
D.R. 11392-53

203  
ED-00-056.00-01-29.01-000  
DAPHNE R. BAUM, TRUSTEE OF  
THE SANDRA D. COKER IRREVOCABLE  
TRUST AGREEMENT DATED JULY 11, 2019  
D.R. 9674-183  
(DEC BLANKET EASEMENT)

204  
ED-00-056.00-01-29.05-000  
YUKIKO NISHIMURA  
D.R. W37-196

205  
ED-00-056.00-01-29.07-000  
ROBERT E. ROBERTS  
D.R. 7770-213  
(DEC BLANKET EASEMENT)

206  
ED-00-056.00-01-29.08-000  
BENJAMIN JAMES MARVEL  
AND RICHARD J. MARVEL  
(LIFE ESTATE)  
D.R. 9578-131  
(DEC BLANKET EASEMENT)

207  
ED-00-056.00-01-29.03-000  
IAN ANDREW REYNOLDS  
D.R. 11429-66  
W.R. WD 11-612  
(DEC BLANKET EASEMENT)

208  
ED-00-056.00-01-29.02-000  
KRISTEN L. JANSEN  
& WILLIAM L. JANSEN (LIFE ESTATE)  
D.R. 5739-89

209  
ED-00-056.00-01-29.06-000  
JEAN L. ALLEN  
D.R. P36-152  
I.S. 21-455  
(DEC BLANKET EASEMENT)

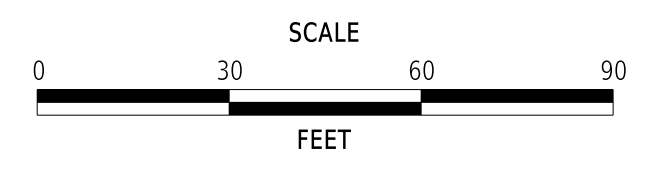
210  
ED-00-056.03-01-22.00-000  
TINA F. PRITCHETT-WARNCKE  
D.R. 226-489  
W.R. T7-63  
(DEC BLANKET EASEMENT)

**NOTES:**

1. PROPOSED UTILITIES SHALL NOT BE PLACED IN THE BACKSLOPE OF THE DITCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. SEE TIDEWATER RELOCATION PLANS FOR PROPOSED WATER MAIN RELOCATIONS.

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL
TH-06	DEC	307+48.58	-38.48	52.31	3.70	(3) 3/4" BLACK
TH-08	VER	304+70.61	12.97	48.02	2.08	1" BLACK
TH-09	VER	305+35.33	12.97	48.01	1.85	1" BLACK

ADDENDA / REVISIONS



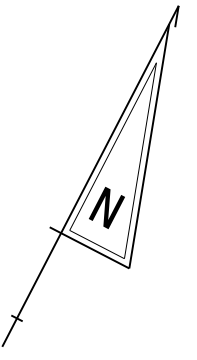
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

**UTILITY RELOCATION PLAN**

<b>UT-04</b>
SECTION CEN
SHEET NO. 61

21-OCT-2025 12:42 \\fcs-mde\pdpw21\CS\_pdf\_work\_dir\628332904\_31\UT04\_RDSF\_T202104204\_CEL.dgn



MATCHLINE STATION 403+00

301  
ED-00-056.00-01-09.02-000  
STEVEN G. PUDDICOMBE  
AND SHARON M. PUDDICOMBE,  
HIS WIFE  
D.R. 11695-327

302  
ED-00-056.00-01-09.03-000  
STEVEN G. PUDDICOMBE  
AND SHARON M. PUDDICOMBE  
D.R. 8903-171

303  
ED-00-056.00-01-09.06-000  
DIONNE WICKS  
AND WILLIAM M. WICKS  
D.R. 9575-189

304  
ED-00-056.00-01-09.05-000  
LONNIE L. ROBERTSON  
D.R. 403-350

305  
ED-00-056.00-01-09.11-000  
DENISE PRITCHETT (LIFE ESTATE)  
RONALD D. PRITCHETT JR.,  
RANADA PRITCHETT,  
RANDALL PRITCHETT,  
KYLE PRITCHETT AND  
ERIC PRITCHETT  
D.R. 4826-32  
W.R. 14587

312  
ED-00-056.00-01-09.10-000  
BEVERLY A. HURD AND  
EUGENE V. STARTT  
D.R. K45-213  
I.S. 0020-0473

306  
ED-00-056.03-01-29.00-000  
BRUCE A. PRITCHETT  
D.R. 12345-222  
P.B. 9-48

307  
ED-00-056.03-01-30.00-000  
BRUCE A. PRITCHETT  
D.R. 12345-225  
P.B. 9-48

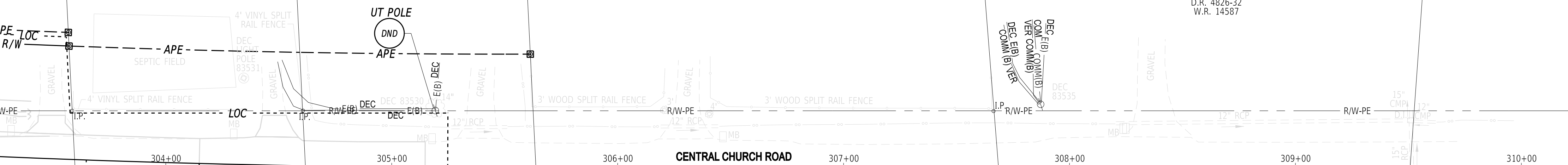
308  
ED-00-056.03-01-31.00-000  
KEVIN I. SHACKLEFORD  
D.R. 11488-117  
P.B. 9-48

309  
ED-00-056.03-01-32.00-000  
KEVIN SHACKLEFORD  
D.R. 9552-218  
P.B. 9-48

310  
ED-00-056.03-01-32.01-000  
KENNETH C. JOHNSON AND CHRISTINE JOHNSON  
D.R. 480-188  
P.B. 9-48

311  
ED-00-056.03-01-33.00-000  
JOHN H. HUGHES  
D.R. 039-279  
P.B. 9-48

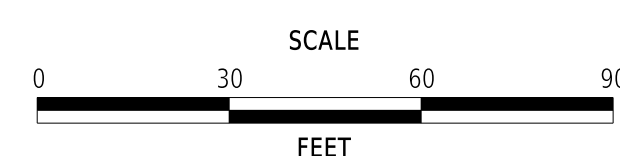
CENTRAL CHURCH ROAD



**NOTES:**

1. PROPOSED UTILITIES SHALL NOT BE PLACED IN THE BACKSLOPE OF THE DITCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ADDENDA / REVISIONS



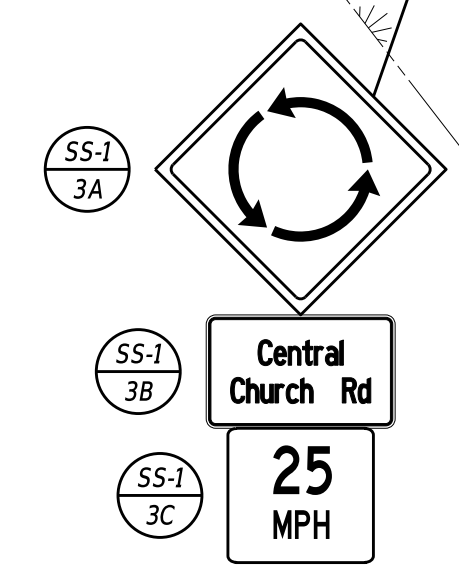
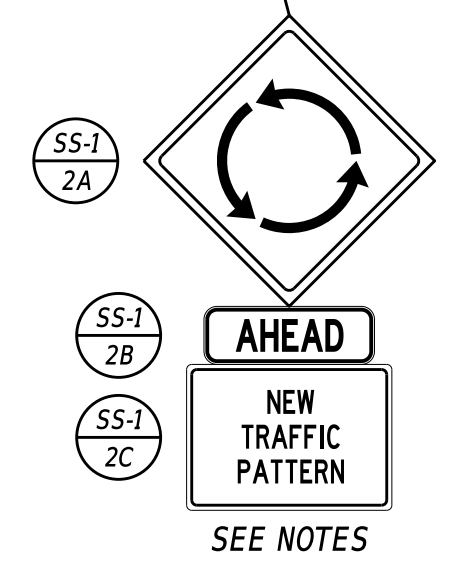
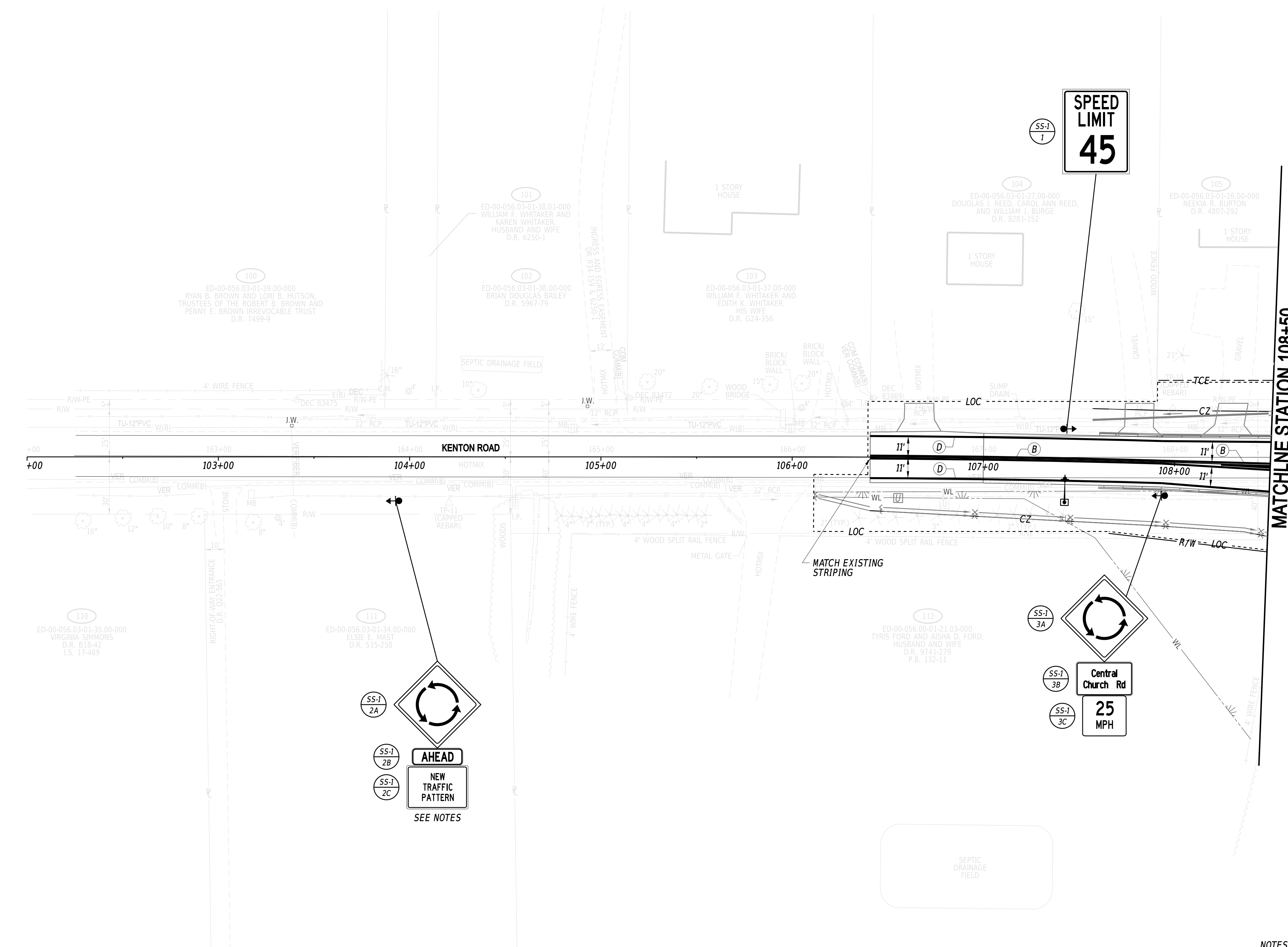
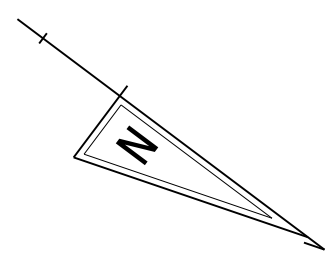
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**UTILITY RELOCATION PLAN**

<b>UT-05</b>
SECTION
CEN
SHEET NO.
62

21-OCT-2025 12:37 \\srm-del00p0w21\CS\_pof\_work\_dir\628332904\_33\UT05\_R05F\_T202104204\_CEL.dgn

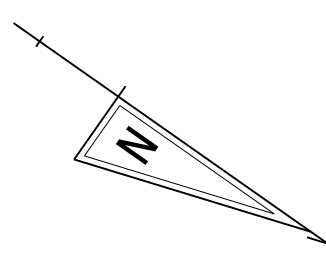


PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 817002)	0 SF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 817042)	470 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	0 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	418 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 12" DOTTED - 2' LINE & 2' GAP (ITEM 817043)	0 LF

- NOTES:
- THE PROPOSED SIGNS (SS-1 2A, 2B, 2C) SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE SIGNS AND SIGN POST.
  - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS (RPM'S) IN ACCORDANCE WITH THE DE MUTCD SECTION 3B.11/ FIGURES 3B-15A TO 3B-15H AND SHALL BE PAID FOR UNDER ITEM 817027.

21-OCT-2025 12:51 \\srm-del00p021\CS\_pdf\_work\_dir\628332914\_14\SS01\_TRSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS		SCALE 0 30 60 90 FEET		HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS		CONTRACT T202104204		BRIDGE NO. N/A		SS-01	
						COUNTY KENT		DESIGNED BY: A. HALLER		SECTION CEN	
						CHECKED BY: L. HAXTON		SIGNING, STRIPING AND CONDUIT PLAN		SHEET NO. 63	

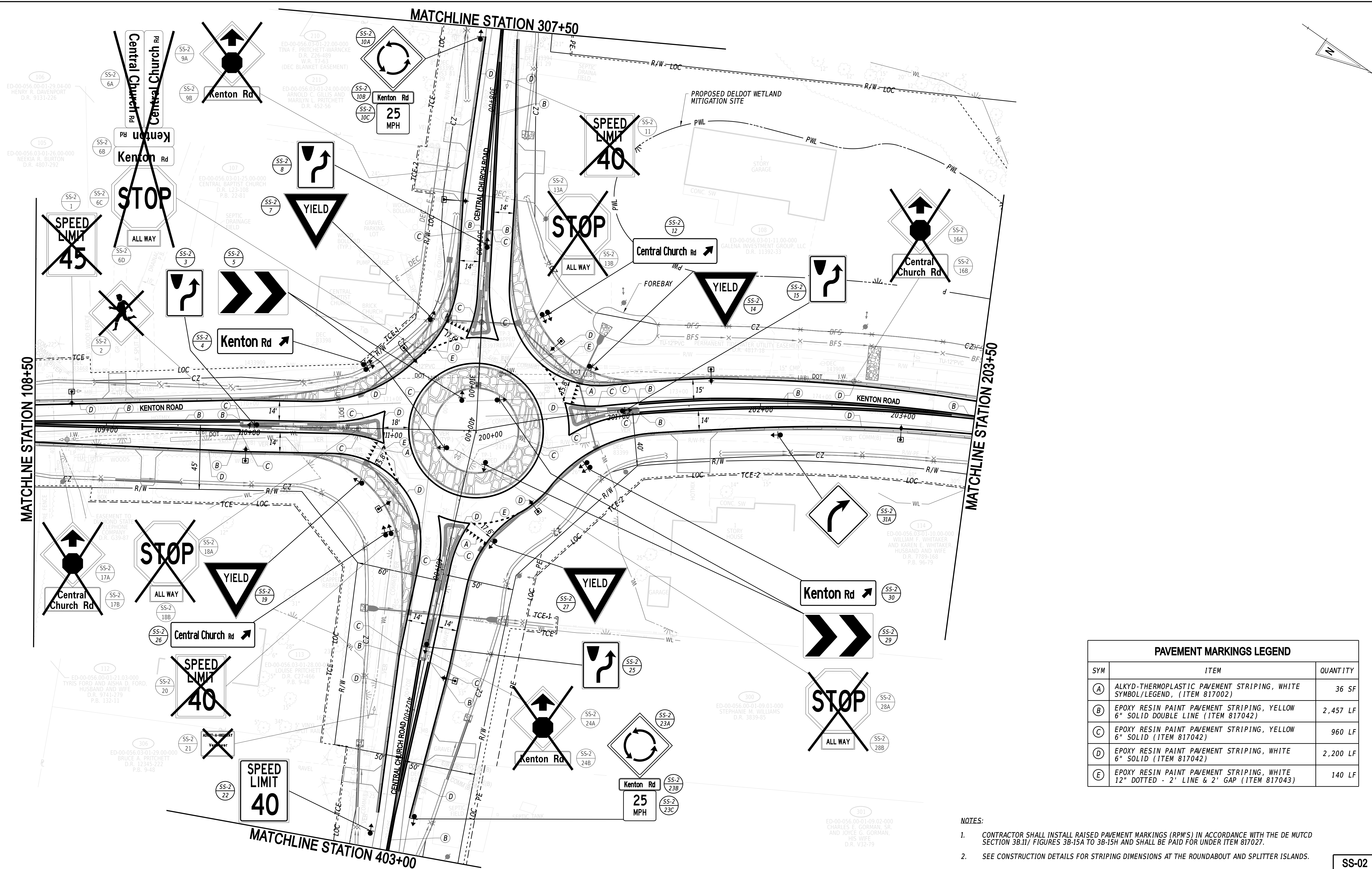


MATCHLINE STATION 307+50

MATCHLINE STATION 108+50

MATCHLINE STATION 203+50

MATCHLINE STATION 403+00

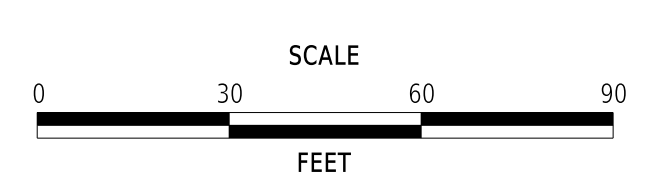


PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 817002)	36 SF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 817042)	2,457 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	960 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	2,200 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 12" DOTTED - 2' LINE & 2' GAP (ITEM 817043)	140 LF

- NOTES:
- CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS (RPM'S) IN ACCORDANCE WITH THE DE MUTCD SECTION 3B.11/ FIGURES 3B-15A TO 3B-15H AND SHALL BE PAID FOR UNDER ITEM 817027.
  - SEE CONSTRUCTION DETAILS FOR STRIPING DIMENSIONS AT THE ROUNDABOUT AND SPLITTER ISLANDS.

11-01-2025 12:47 11/11/25 11:00:00 AM

ADDENDA / REVISIONS

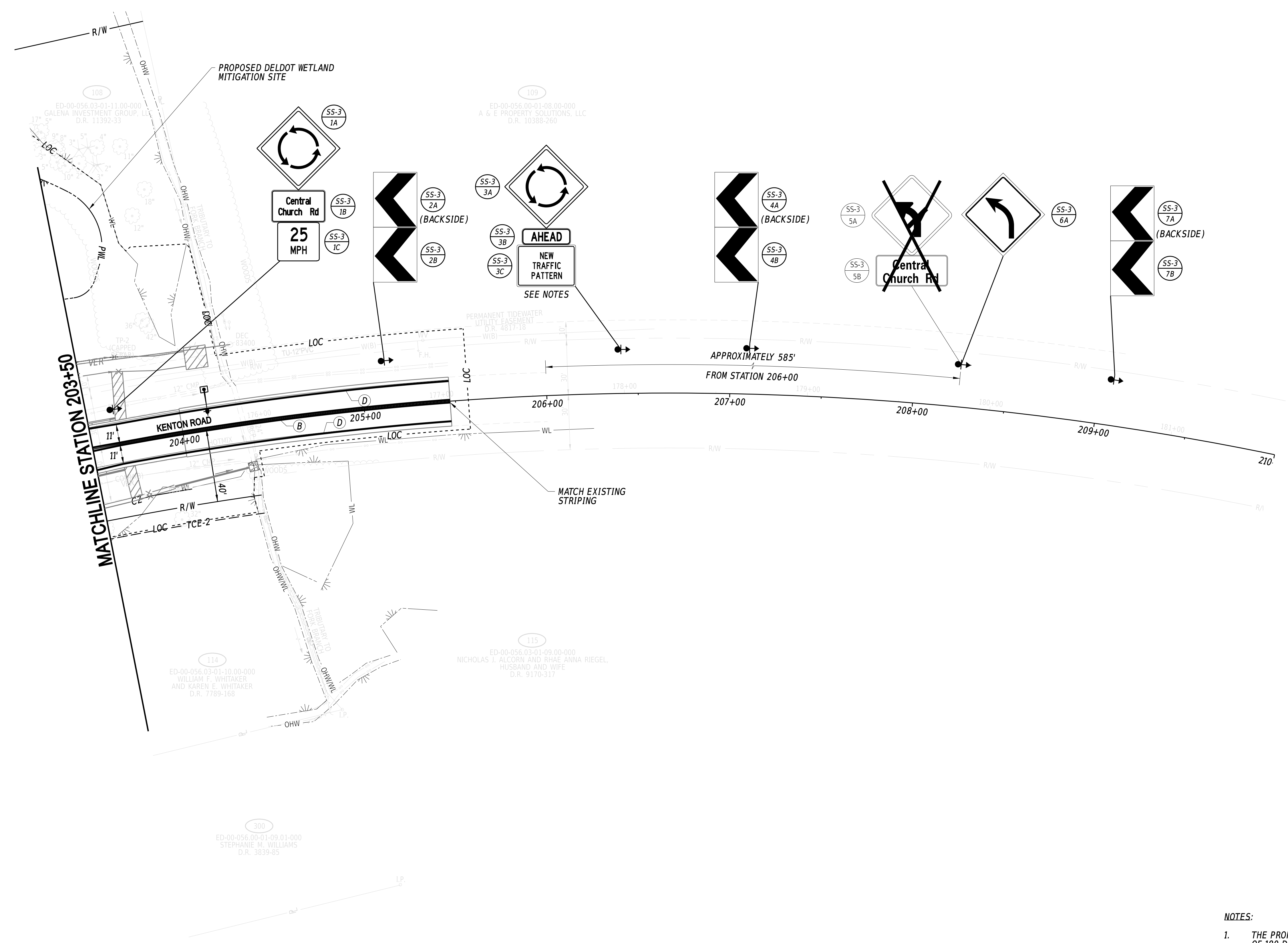
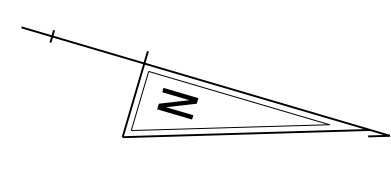


**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**SIGNING, STRIPING  
AND CONDUIT PLAN**

SS-02
SECTION
CEN
SHEET NO.
64

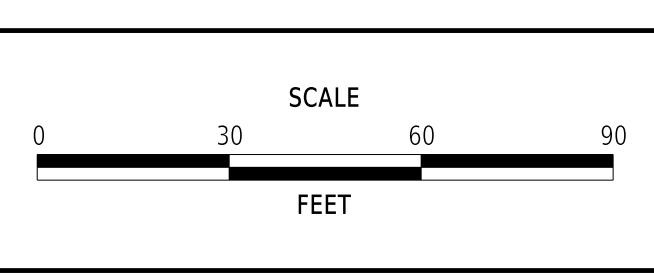


PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 817002)	0 SF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 817042)	394 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	0 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	394 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 12" DOTTED - 2' LINE & 2' GAP (ITEM 817043)	0 LF

- NOTES:**
- THE PROPOSED SIGNS (SS-3 2A, 2B, 2C) SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE SIGNS AND SIGN POST.
  - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS (RPM'S) IN ACCORDANCE WITH THE DE MUTCD SECTION 3B.11/ FIGURES 3B-15A TO 3B-15H AND SHALL BE PAID FOR UNDER ITEM 817027.

21-OCT-2025 12:49 \\fcsM-deloopw21\CS\_pdf\_work\_dir\628332914\_1615503\_TRSF\_T202104204\_CEI.dgn

ADDENDA / REVISIONS

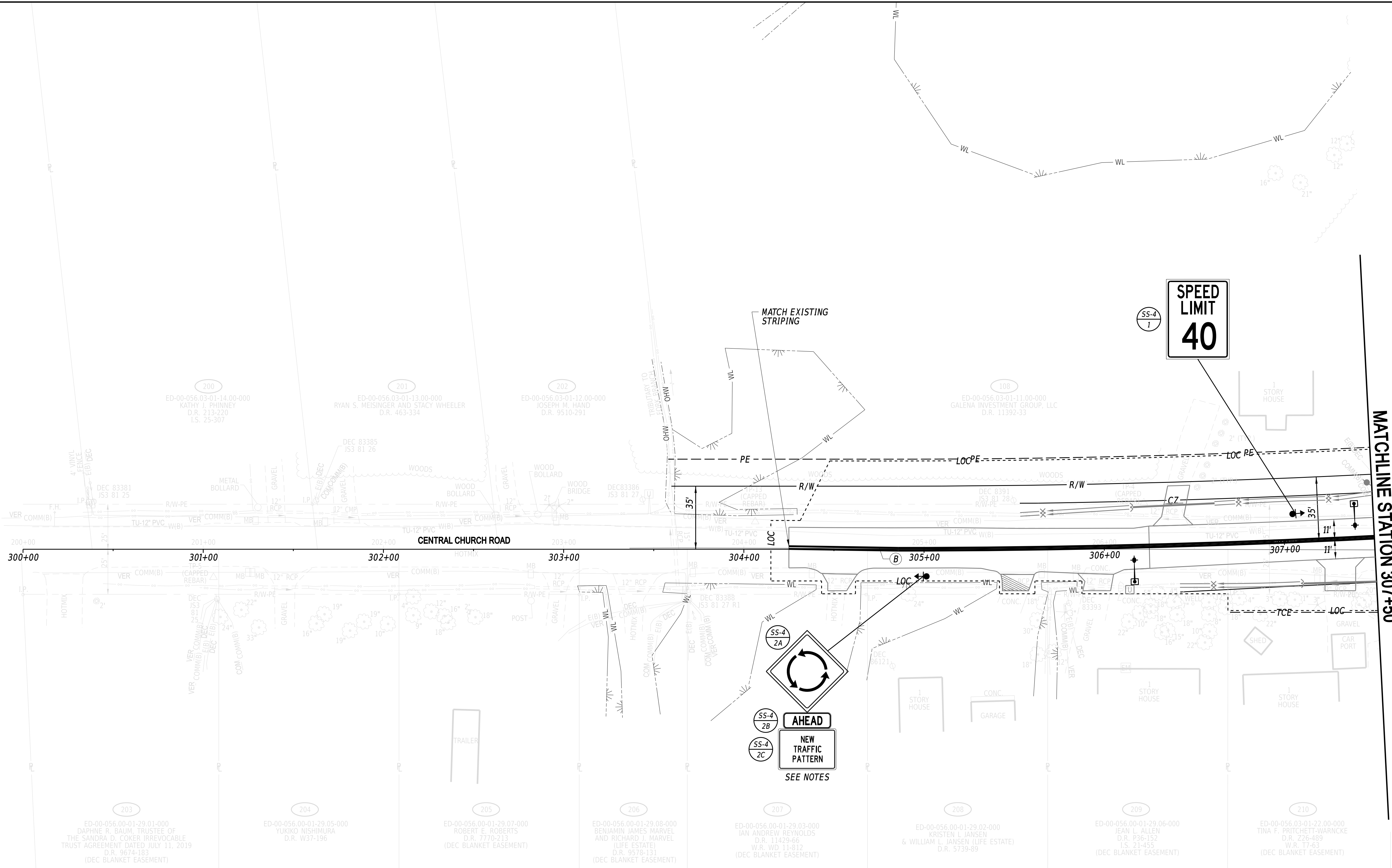
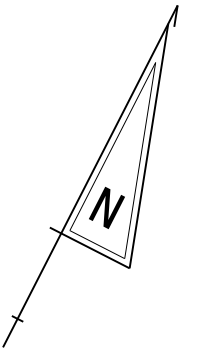


**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

<b>SIGNING, STRIPING AND CONDUIT PLAN</b>	
SECTION	CEN
SHEET NO.	65

**SS-03**  
 SECTION  
 CEN  
 SHEET NO.  
 65



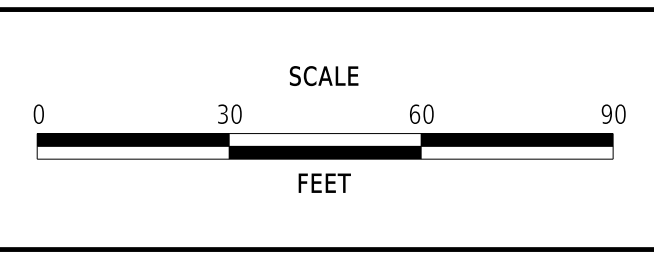
**NOTES:**

1. THE PROPOSED SIGNS (SS-4 2A, 2B, 2C) SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE SIGNS AND SIGN POST.
2. CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS (RPM'S) IN ACCORDANCE WITH THE DE MUTCD SECTION 3B.11/ FIGURES 3B-15A TO 3B-15H AND SHALL BE PAID FOR UNDER ITEM 817027.

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 817002)	0 SF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 817042)	529 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	0 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	0 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 12" DOTTED - 2' LINE & 2' GAP (ITEM 817043)	0 LF

21-OCT-2025 12:48 \\fcsM-delopow21\CS\_pdf\_work\_dir\628332914\_1715504\_TRSF\_T202104204\_CEL.dgn

ADDENDA / REVISIONS

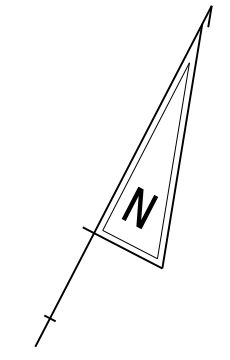


**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

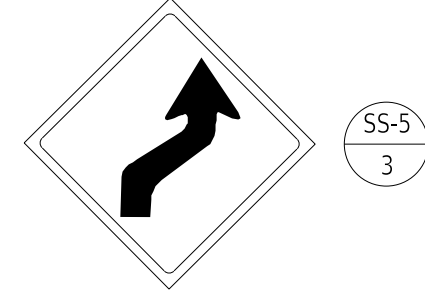
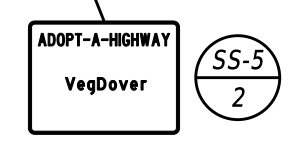
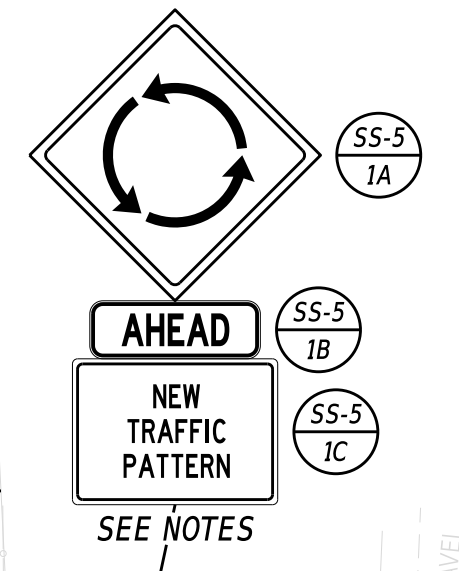
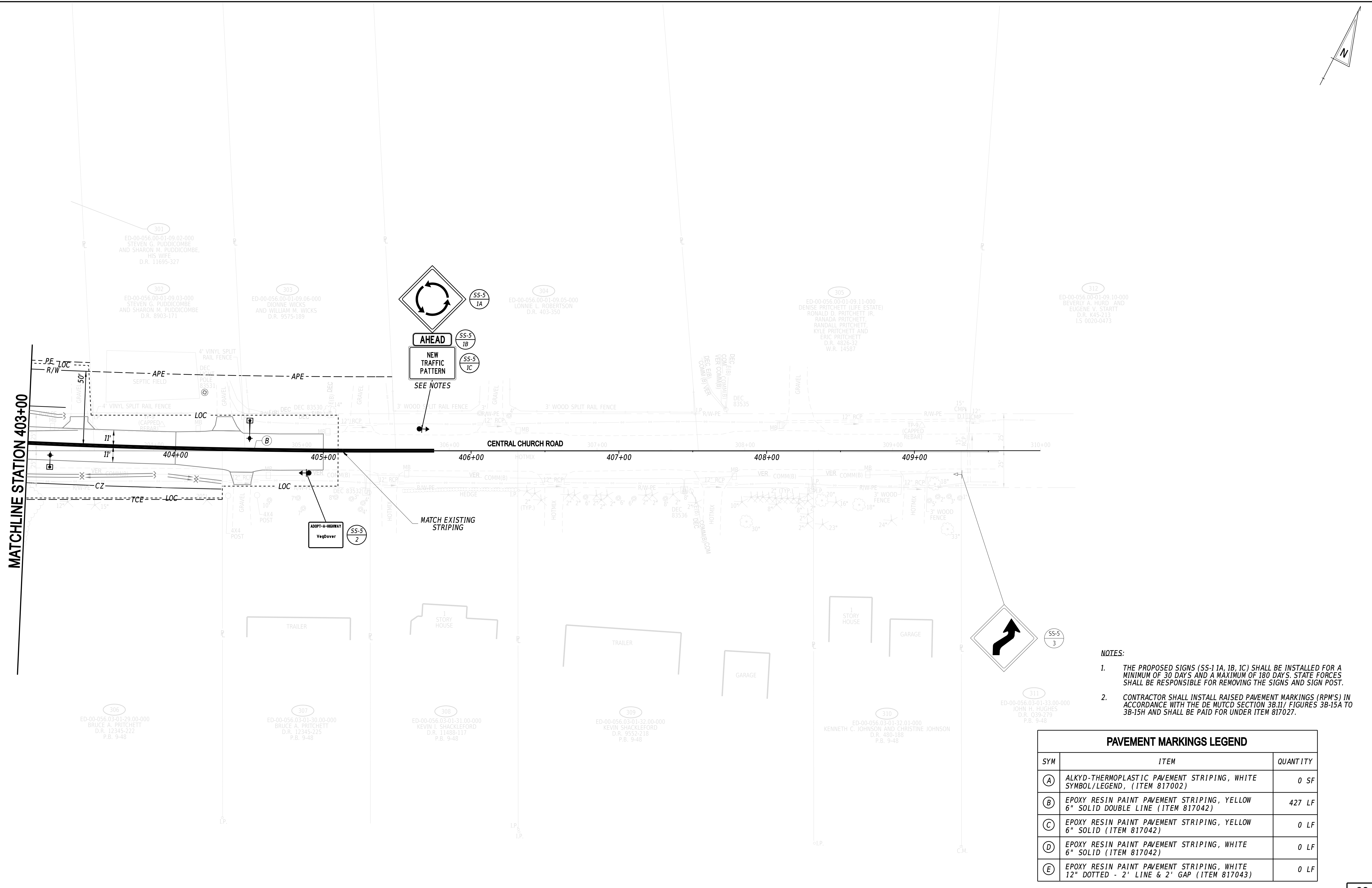
CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**SIGNING, STRIPING AND CONDUIT PLAN**

<b>SS-04</b>
SECTION
CEN
SHEET NO.
66



MATCHLINE STATION 403+00

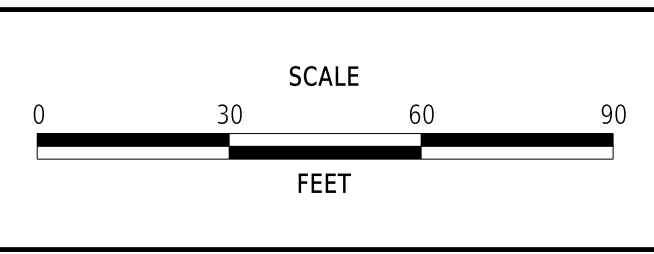


- NOTES:**
- THE PROPOSED SIGNS (SS-1 1A, 1B, 1C) SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE SIGNS AND SIGN POST.
  - CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS (RPM'S) IN ACCORDANCE WITH THE DE MUTCD SECTION 3B.11/ FIGURES 3B-15A TO 3B-15H AND SHALL BE PAID FOR UNDER ITEM 817027.

PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY
(A)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 817002)	0 SF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID DOUBLE LINE (ITEM 817042)	427 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 6" SOLID (ITEM 817042)	0 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 6" SOLID (ITEM 817042)	0 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 12" DOTTED - 2' LINE & 2' GAP (ITEM 817043)	0 LF

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ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204
COUNTY	KENT
BRIDGE NO.	N/A
DESIGNED BY:	A. HALLER
CHECKED BY:	L. HAXTON

**SIGNING, STRIPING AND CONDUIT PLAN**

<b>SS-05</b>
SECTION
CEN
SHEET NO.
67

PERMANENT SIGN SCHEDULE - ROADWAY

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 SUPPLY OF ROADSIDE FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 SUPPLY OF ROADSIDE FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819003 INSTALL OR REMOVE TRAFFIC SIGNS (EACH)			ITEM 819001 PROVIDE GALVANIZED TELESCOPING SIGN POST (EACH) TO BE USED FOR NEW SIGN POSTS. CONTRACTOR TO DETERMINE LENGTH	ITEM 819002 INSTALL OR REMOVE GALVANIZED TELESCOPING SIGN POST (EACH)			POST INSTALLATION TYPE	ITEM 819010 4" HOLE, 0-6" (EACH)	ITEM 819011 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL		SIGN POST DISPOSITION	REMOVE	INSTALL				
SS-1	1	R2-1-45(24)	1	SPEED LIMIT (45 MPH - 24x30)	24	30	5.0				NEW W/ POST		1		NEW		1	SOIL		
SS-1	2A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0				NEW W/ POST		1		NEW		1	SOIL	See notes on plan sheet	
SS-1	2B	W16-9P(24)	1	AHEAD (plaque) - 24x12	24	12	2.0				ADD TO ASSEMBLY		1						See notes on plan sheet	
SS-1	2C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0			ADD TO ASSEMBLY		1						See notes on plan sheet	
SS-1	3A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0				NEW W/ POST		1		NEW		1	SOIL		
SS-1	3B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8				ADD TO ASSEMBLY		1						Central Church Rd Hwy C, 4"	
SS-1	3C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18	2.3				ADD TO ASSEMBLY		1							
SS-2	1	R2-1-45(24)	1	SPEED LIMIT (45 MPH - 24x30)	24	30					REMOVE	1			REMOVE	1				
SS-2	2	W21-11-DE	1	WATCH CHILDREN (Symbol)	30	30					REMOVE	1			REMOVE	1				
SS-2	3	R4-7c	1	NARROW KEEP RIGHT	18	30	3.8				NEW W/ POST		1		NEW		1	NEW CONCRETE		
SS-2	4	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	54	18	6.8				NEW W/ POST		1		NEW		2	SOIL	Kenton Rd (Arrow 45 deg) Hwy C, 8'6"	
SS-2	5	R6-4	2	ROUNDAABOUT DIRECTIONAL (2 chevrons)	30	24	10.0				NEW W/ POST		2		NEW		2	SOIL		
SS-2	6A	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	30	12					REMOVE	2							Kenton Rd	
SS-2	6B	D3-1(12)	2	STREET NAME (1 Line) Posted speed ≤ 40 MPH	48	12					REMOVE	2							Central Church RD	
SS-2	6C	R1-1(36)	1	STOP	36	36					REMOVE	1			REMOVE	1				
SS-2	6D	R1-3P(30)	1	ALL WAY(plaque)	30	12					REMOVE	1								
SS-2	7	R1-2(36)	1	YIELD	36	36		3.9			NEW W/ POST		1		NEW		1	SOIL		
SS-2	8	R4-7c	1	NARROW KEEP RIGHT	18	30	3.8				NEW W/ POST		1		NEW		1	NEW CONCRETE		
SS-2	9A	W3-1(36)	1	STOP AHEAD (Symbol) - 36x36	36	36					REMOVE	1			REMOVE	1				
SS-2	9B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1								
SS-2	10A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0				NEW W/ POST		1		NEW		1	SOIL		
SS-2	10B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9	1.9				ADD TO ASSEMBLY		1						Kenton Rd Hwy C, 4"	
SS-2	10C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18	2.3				ADD TO ASSEMBLY		1							
SS-2	11	R2-1-40(24)	1	SPEED LIMIT (40 MPH - 24x30)	24	30					REMOVE	1			REMOVE	1				
SS-2	12	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	60	18	7.5				NEW W/ POST		1		NEW		2	SOIL	Central Church Rd Hwy C, 8'6"	
SS-2	13A	R1-1(48)	1	STOP	48	48					REMOVE	1			REMOVE	2				
SS-2	13B	R1-3P(30)	1	ALL WAY(plaque)	30	12					REMOVE	1								
SS-2	14	R1-2(36)	1	YIELD	36	36		3.9			NEW W/ POST		1		NEW		1	SOIL		
SS-2	15	R4-7c	1	NARROW KEEP RIGHT	18	30	3.8				NEW W/ POST		1		NEW		1	NEW CONCRETE		
SS-2	16A	W3-1(36)	1	STOP AHEAD (Symbol) - 36x36	36	36					REMOVE	1			REMOVE	1				
SS-2	16B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18					REMOVE	1							Central Church Rd	
SS-2	17A	W3-1(36)	1	STOP AHEAD (Symbol) - 36x36	36	36					REMOVE	1			REMOVE	1			Central Church Rd	
SS-2	17B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18					REMOVE	1							Central Church Rd	
SS-2	18A	R1-1(48)	1	STOP	48	48					REMOVE	1			REMOVE	2				
SS-2	18B	R1-3P(30)	1	ALL WAY(plaque)	30	12					REMOVE	1								
SS-2	19	R1-2(36)	1	YIELD	36	36		3.9			NEW W/ POST		1		NEW		1	SOIL		
SS-2	20	R2-1-40(24)	1	SPEED LIMIT (40 MPH - 24x30)	24	30					REMOVE	1			REMOVE	1				
SS-2	21	D14-3-DE	1	ADOPT A HIGHWAY	24	18					REMOVE	1			REMOVE	1			VegDover	
SS-2	22	R2-1-40(24)	1	SPEED LIMIT (40 MPH - 24x30)	24	30	5.0				NEW W/ POST		1		NEW		1	SOIL		
SS-2	23A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0				NEW W/ POST		1		NEW		1	SOIL		
SS-2	23B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9	1.9				ADD TO ASSEMBLY		1						Kenton Rd Hwy C, 4"	
SS-2	23C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18	2.3				ADD TO ASSEMBLY		1							
SS-2	24A	W3-1(36)	1	STOP AHEAD (Symbol) - 36x36	36	36					REMOVE	1			REMOVE	1				
SS-2	24B	W16-8P	1	ADVANCE STREET NAME (1 - line plaque)	30	9					REMOVE	1							Kenton Rd	
SS-2	25	R4-7c	1	NARROW KEEP RIGHT	18	30	3.8				NEW W/ POST		1		NEW		1	NEW CONCRETE		
SS-2	26	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	60	18	7.5				NEW W/ POST		1		NEW		2	SOIL	Central Church Rd Hwy C, 8'6"	
SS-2	27	R1-2(36)	1	YIELD	36	36		3.9			NEW W/ POST		1		NEW		1	SOIL		
SS-2	28A	R1-1(48)	1	STOP	48	48					REMOVE	1			REMOVE	2				
SS-2	28B	R1-3P(30)	1	ALL WAY(plaque)	30	12					REMOVE	1								
SS-2	29	R6-4	2	ROUNDAABOUT DIRECTIONAL (2 chevrons)	30	24	10.0				NEW W/ POST		2		NEW		2	SOIL		
SS-2	30	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	54	18	6.8				NEW W/ POST		1		NEW		2	SOIL	Kenton Rd (Arrow 45 deg) Hwy C, 8'6"	
SS-2	31A	W1-2_R_FY(30)	1	CURVE (Right) - 30x30 (Fluorescent Yellow)	30	30		6.3			NEW W/ POST		1		NEW		1	SOIL		
PAGE TOTALS							126	27	0		25	31	27		16	27		0	0	

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

PERMANENT  
SIGN SCHEDULE

SECTION  
CEN  
SHEET NO.  
68

PERMANENT SIGN SCHEDULE - ROADWAY

SHEET NO.	PLAN IDENTIFIER	SIGN DESIGNATION	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	X13 / ITEM 818001 FLAT SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE SHEETING (SF)	X14 / ITEM 818003 FLAT SHEET ALUMINUM, TYPE XI, RETROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA)	ITEM 819003 INSTALL OR REMOVE TRAFFIC SIGNS (EACH)			ITEM 819001 PROVIDE GALVANIZED TELESCOPING SIGN POST (EACH) TO BE USED FOR NEW SIGN POSTS. CONTRACTOR TO DETERMINE LENGTH	ITEM 819002 INSTALL OR REMOVE GALVANIZED TELESCOPING SIGN POST (EACH)			POST INSTALLATION TYPE	ITEM 819010 4" HOLE, 0-6" (EACH)	ITEM 819011 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL		SIGN DISPOSITION	REMOVE	INSTALL				
SS-3	1A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0			NEW W/ POST		1	1	NEW		1	SOIL			
SS-3	1B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18	3.8			ADD TO ASSEMBLY		1							Central Church Rd Hwy C, 4"	
SS-3	1C	W13-1P-25(18)	1	ADVISORY SPEED (25 MPH) 18x18	18	18	2.3			ADD TO ASSEMBLY		1								
SS-3	2A	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		NEW W/ POST		1	1	NEW		1	SOIL			
SS-3	2B	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		ADD TO ASSEMBLY		1								
SS-3	3A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0			NEW W/ POST		1	1	NEW		1	SOIL		See notes on plan sheet	
SS-3	3B	W16-9P(24)	1	AHEAD (plaque) - 24x12	24	12	2.0			ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-3	3C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0		ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-3	4A	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		NEW W/ POST		1	1	NEW		1	SOIL			
SS-3	4B	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		ADD TO ASSEMBLY		1								
SS-3	5A	W1-10a_L(36)	1	COMBINATION HORIZONTAL ALIGNMENT/INTERSECTION (Left) - 36x36	36	36				REMOVE	1			REMOVE	1					
SS-3	5B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	30	18				REMOVE	1								Central Church Rd	
SS-3	6	W1-2_L_FY(30)	1	CURVE (Left) - 30x30 (Fluorescent Yellow)	30	30		6.3		NEW W/ POST		1	1	NEW		1	SOIL			
SS-3	7A	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		NEW W/ POST		1	1							
SS-3	7B	W1-8_FY(18)	1	CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow)	18	24		3.0		ADD TO ASSEMBLY		1		NEW			SOIL			
SS-4	1	R2-1-40(24)	1	SPEED LIMIT (40 MPH - 24x30)	24	30	5.0			NEW W/ POST		1	1	NEW		1	SOIL			
SS-4	2A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0			NEW W/ POST		1	1	NEW		1	SOIL		See notes on plan sheet	
SS-4	2B	W16-9P(24)	1	AHEAD (plaque) - 24x12	24	12	2.0			ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-4	2C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0		ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-5	1A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	36	36	9.0			NEW W/ POST		1	1	NEW		1	SOIL		See notes on plan sheet	
SS-5	1B	W16-9P(24)	1	AHEAD (plaque) - 24x12	24	12	2.0			ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-5	1C	W23-2P-DE(30)	1	NEW TRAFFIC PATTERN (plaque) - 30x24	30	24		5.0		ADD TO ASSEMBLY		1							See notes on plan sheet	
SS-5	2	D14-3-DE	1	ADOPT A HIGHWAY	24	18	3.0			NEW W/ POST		1	1	NEW		1	SOIL		VegDover Hwy D, 2"	
SS-5	3	W1-4_R(30)	1	REVERSE CURVE (Right) - 30x30	30	30				REMAIN										
<b>PAGE TOTALS</b>							56	39	0		2	21	10		1	9		0	0	
<b>JOB TOTALS</b>							182	66	0		27	52	37		17	36		0	0	

ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

PERMANENT  
SIGN SCHEDULE

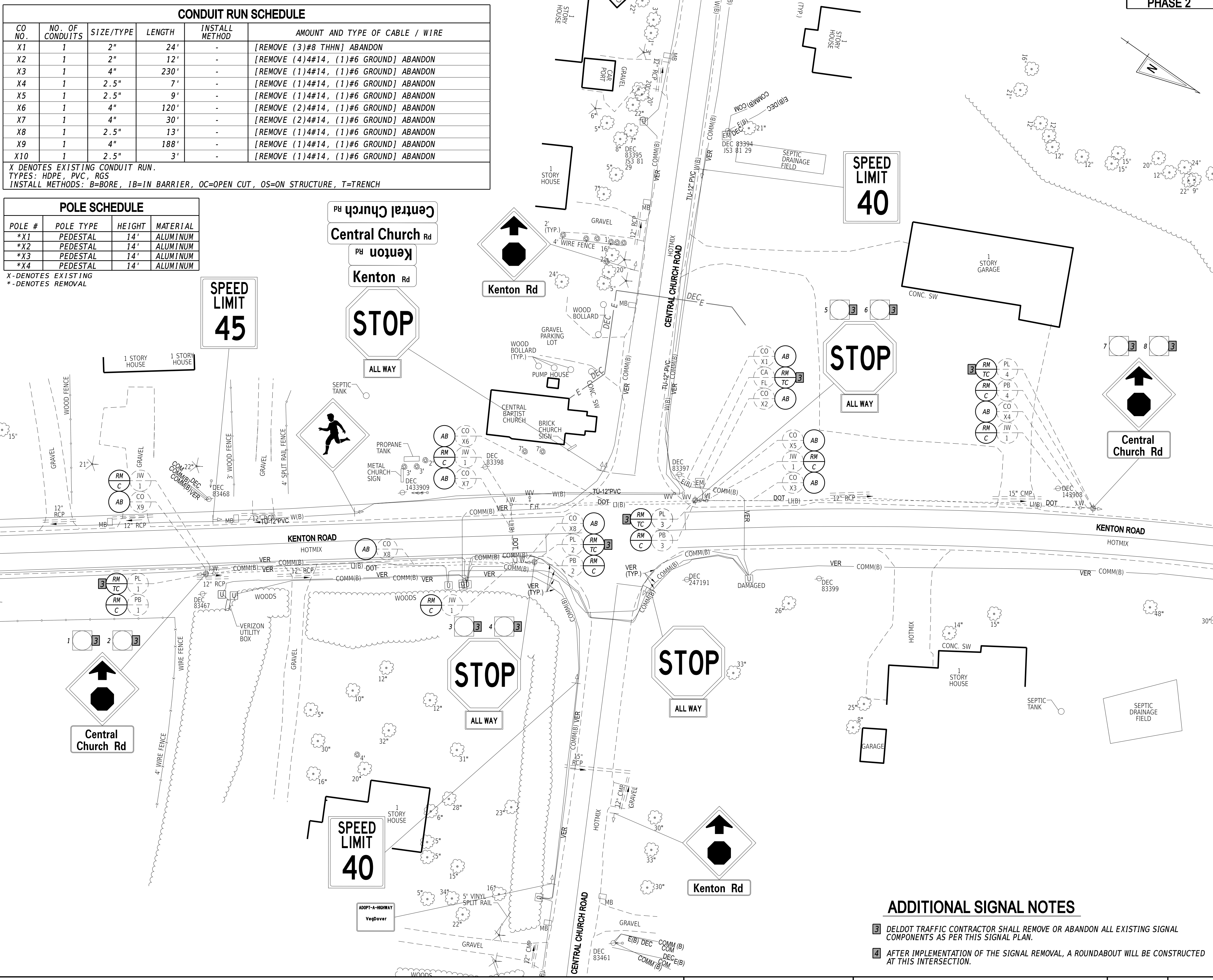
SECTION
CEN
SHEET NO.
69

CONDUIT RUN SCHEDULE					
CO NO.	NO. OF CONDUITS	SIZE/TYPE	LENGTH	INSTALL METHOD	AMOUNT AND TYPE OF CABLE / WIRE
X1	1	2"	24'	-	[REMOVE (3)#8 THHN] ABANDON
X2	1	2"	12'	-	[REMOVE (4)4#14, (1)#6 GROUND] ABANDON
X3	1	4"	230'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON
X4	1	2.5"	7'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON
X5	1	2.5"	9'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON
X6	1	4"	120'	-	[REMOVE (2)4#14, (1)#6 GROUND] ABANDON
X7	1	4"	30'	-	[REMOVE (2)4#14, (1)#6 GROUND] ABANDON
X8	1	2.5"	13'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON
X9	1	4"	188'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON
X10	1	2.5"	3'	-	[REMOVE (1)4#14, (1)#6 GROUND] ABANDON

X DENOTES EXISTING CONDUIT RUN.  
 TYPES: HDPE, PVC, RGS  
 INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

POLE SCHEDULE			
POLE #	POLE TYPE	HEIGHT	MATERIAL
*X1	PEDESTAL	14'	ALUMINUM
*X2	PEDESTAL	14'	ALUMINUM
*X3	PEDESTAL	14'	ALUMINUM
*X4	PEDESTAL	14'	ALUMINUM

X-DENOTES EXISTING  
 \*-DENOTES REMOVAL



SIGNAL PHASING			
PHASE 2			
SIGNAL HEAD DIAGRAM			
LEGEND			
(AB)	ABANDON	(OH)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)	(OH)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
(CA)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)	(PB)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PB)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
(CO)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)	(PL)	EXISTING POLE IDENTIFIER (# OF POLE)
(JW)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(PL)	PROPOSED POLE IDENTIFIER (# OF POLE)
(JI)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)	(RM)	REMOVE BY CONTRACTOR
(MA)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY OTHERS
(MA)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)	(RM)	REMOVE BY TRAFFIC CONTRACTOR

	EXISTING SYMBOL	PROPOSED SYMBOL
JUNCTION WELL	J.W.	■
LOOP DETECTOR, TYPE 1	□	□
LOOP DETECTOR, TYPE 2	□	□
LUMINAIRE	⬆	⬆
MAST ARM	⬆	⬆
MICROWAVE DETECTION	⬆	⬆
OPTICOM RECEIVER	⬆	⬆
OVERHEAD SIGNING	⬆	⬆
PEDESTRIAN POLE/BASE	⊙	⊙
PEDESTRIAN PUSHBUTTON	⬆	⬆
PEDESTRIAN SIGNAL HEAD	⬆	⬆
RIGHT-OF-WAY	---	---
SERVICE PEDESTAL	⬆	⬆
SIGNAL CABINET	⬆	⬆
SIGNAL HEAD	⬆	⬆
SIGNAL POLE/BASE	⊙	⊙
CCTV CAMERA	⬆	⬆
SPAN WIRE	XX	XX
UTILITY POLE	⊙	⊙
VIDEO DETECTION	⬆	⬆

**GENERAL SIGNAL NOTES**

- ALL SIGNAL EQUIPMENT REMOVED FROM A PROJECT IS TO BE RETURNED TO DELDOT TRAFFIC - DOVER, DELAWARE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY, AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

PREPARED BY  
**CENTURY ENGINEERING**  
 A Kleinfelder Company

*[Signature]* 10/06/2025  
 DATE

**BRIAN A. MARTINE**  
 PROFESSIONAL ENGINEER  
 No. 11947

THIS SEAL APPLIES THIS SHEET ONLY. SEAL

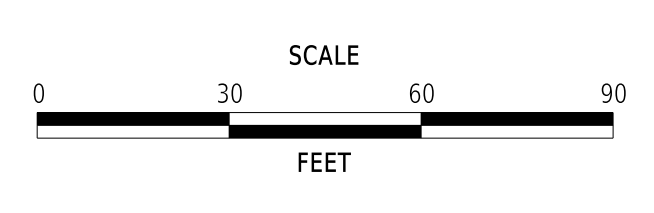
**CONCURRENCE FOR INSTALLATION**

*[Signature]* 10/7/2025  
 CHIEF OF TRAFFIC ENGINEERING DATE

**ADDITIONAL SIGNAL NOTES**

- DELDOT TRAFFIC CONTRACTOR SHALL REMOVE OR ABANDON ALL EXISTING SIGNAL COMPONENTS AS PER THIS SIGNAL PLAN.
- AFTER IMPLEMENTATION OF THE SIGNAL REMOVAL, A ROUNDABOUT WILL BE CONSTRUCTED AT THIS INTERSECTION.

ADDENDA / REVISIONS



**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	PERMIT NO.	K332
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

SIGNAL REMOVAL PLAN KENTON ROAD @ CENTRAL CHURCH ROAD		SECTION CEN
		SHEET NO. 70

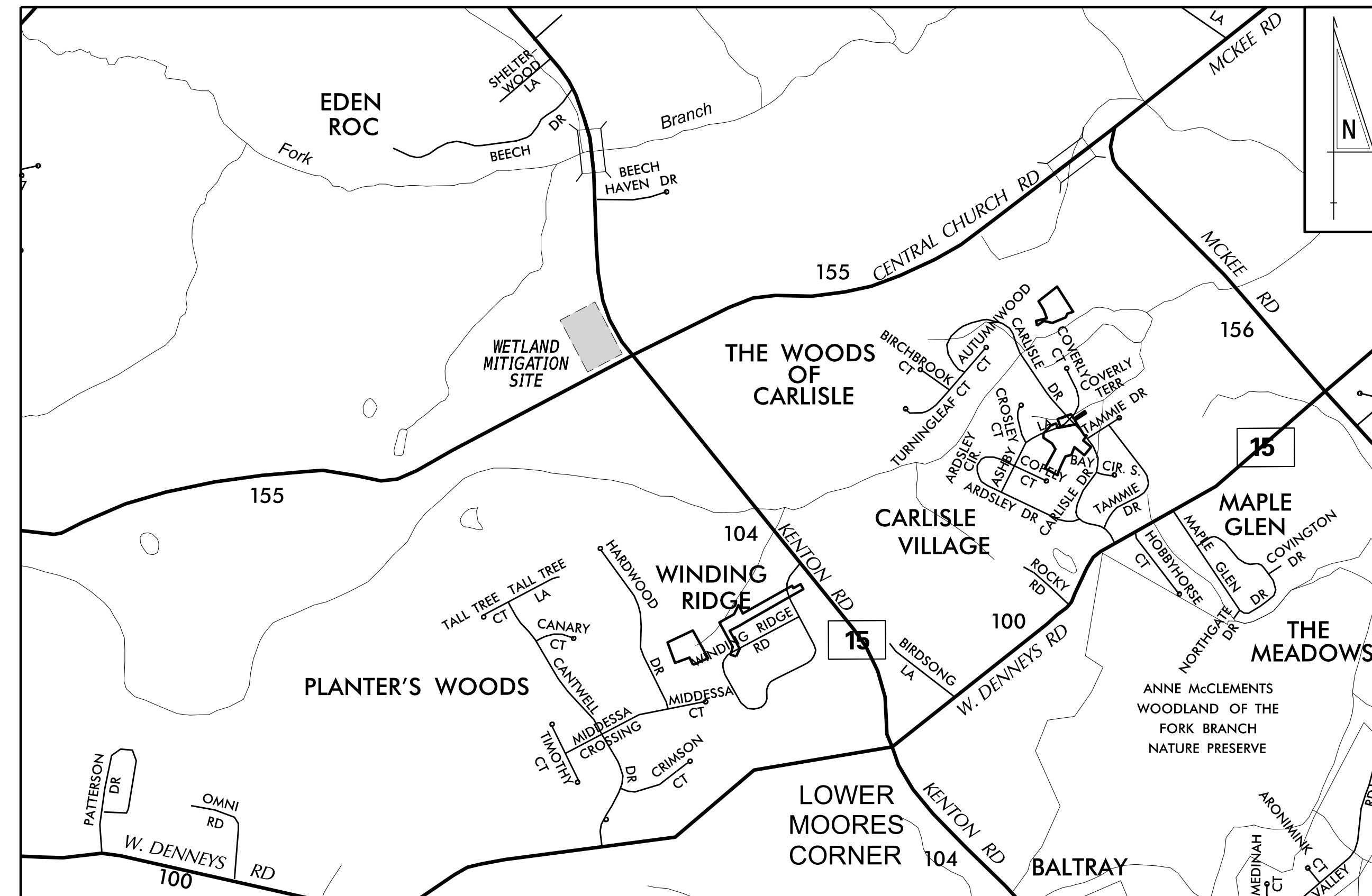
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# WETLAND MITIGATION SITE NOTES AND SEQUENCE OF CONSTRUCTION

ALL WORK AT THE SR15/KENTON RD AND CENTRAL CHURCH RD WETLAND MITIGATION SITE SHALL BE COMPLETED IN ONE CONSTRUCTION SEASON AND SHALL BEGIN AS THE FIRST OPERATION. THE SITE SHALL BE COMPLETED PRIOR TO THE START OF PHASE 2. APPROVAL OF THE FINAL GRADING AS-BUILT DRAWINGS SHALL OCCUR SO ITEM 908503 - WETLAND MITIGATION SEED MIX SHALL BE PLACED BETWEEN MARCH 1ST AND APRIL 15TH AS NOTED BELOW.

1. INSTALL ITEM 905001 - SILT FENCE AND ITEM 905002 - REINFORCED SILT FENCE AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. RESOURCE PROTECTION FENCE SHALL BE INSTALLED ALONG THE EXISTING WETLANDS.
2. INSTALL ITEM 908023 - STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.
3. PERFORM THE CLEARING AND GRUBBING OF THE SITE SO THE WORK ONLY DISTURBS AREAS THAT WILL BE EXCAVATED OR GRADED WITHIN THE NEXT FOURTEEN (14) CALENDAR DAYS.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING PIEZOMETERS AS SHOWN ON THE WETLAND MITIGATION SITE PLAN. THE REMOVAL OF ALL DESIGNATED PIEZOMETERS SHALL BE COMPLETED BY A CERTIFIED WELL DRILLER. REMOVAL COST INCIDENTAL TO ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE WELL DRILLER TO OBTAIN AND COMPLY WITH THE REQUIRED WELL PERMITS. COST OF OBTAINING THESE PERMITS IS INCLUDED IN ITEM 202514 - PIEZOMETER.
5. EXCAVATE THE WETLAND MITIGATION SITE TO THE DESIGN SUB-GRADE ELEVATIONS AND STOCKPILE THE EXCAVATED MATERIALS. TOPSOIL SHALL BE STOCKPILED SEPARATELY FOR USE IN THE PROPOSED WETLAND SITE. PAYMENT FOR ALL EXCAVATED MATERIAL TO BE MADE UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
6. THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT TOPOGRAPHIC PLANS FOR THE SUB-GRADE. THE MAXIMUM HORIZONTAL DISTANCE BETWEEN SPOT ELEVATIONS SHALL BE 20' AND ADDITIONAL SPOT ELEVATIONS SHALL BE OBTAINED AS NECESSARY TO IDENTIFY ALL BREAKS IN GRADE AND OTHER FEATURES. SPOT ELEVATIONS SHALL EXTEND A MINIMUM OF 50' BEYOND THE DISTURBED AREA. SPOT ELEVATIONS SHALL BE OBTAINED AND SHOWN ON THE AS-BUILT PLAN TO ONE-HUNDRETH OF A FOOT. THE TOLERANCE FOR THE PROPOSED WETLAND MITIGATION SITE BOTTOM SHALL BE PLUS OR MINUS ONE TENTH (0.1) OF A FOOT. THE DRAWINGS SHALL BE SUBMITTED TO DELDOT IN BOTH DIGITAL AND PAPER FORMAT CONFORMING TO CURRENT DELDOT CADD STANDARDS. DIGITAL INFORMATION SHALL BE SUBMITTED IN .DGN FORMAT AND .DTM FORMAT AND SHALL INCLUDE ALL SURVEY DATA IN .TXT FORMAT. THE DRAWINGS SHALL BE AT 60 SCALE. CONTOURS SHALL BE SHOWN AT 0.5' INTERVALS AND THE CONTOUR LINES SHALL BE LABELED FREQUENTLY ENOUGH THAT IT IS POSSIBLE TO CLEARLY ASCERTAIN THE ELEVATION OF ANY PARTICULAR CONTOUR LINE ANYWHERE ON THE PLAN SHEET. SPOT ELEVATIONS ON THE AS-BUILTS SHALL BE LABELED AND SHALL BE SUCH THAT THE PLAN SHEET TEXT SHALL BE LEGIBLE, SOLID BLACK CHARACTERS, IN A SIZE APPROPRIATE TO THE SCALE OF THE DRAWINGS AND SEPARATED, NOT SUPERIMPOSED, ON TOP OF ONE ANOTHER. A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE SHALL SIGN AND SEAL THE AS-BUILTS. THE CONTRACTOR SHALL SUBMIT THE AS-BUILTS WITHIN SEVEN CALENDAR DAYS OF REACHING FINAL SUBGRADE ELEVATIONS. ALL COSTS FOR PREPARING THE SUBGRADE AS-BUILT PLANS SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING. DISKING MAY NOT BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THE ENGINEER'S APPROVAL OF THE SUBGRADE AS-BUILT PLAN.
7. AFTER ACCEPTANCE OF THE SUB-GRADE AS-BUILTS, THE SUBGRADE SHALL BE DISKED TO A MIN. DEPTH OF 4", THREE TIMES. THE SECOND PASS WITH THE DISK SHALL BE PERPENDICULAR TO THE FIRST. SIMILARLY, THE THIRD PASS SHALL BE PERPENDICULAR TO THE SECOND PASS. ALL COSTS SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT. AFTER THE SUB-GRADE IS DISKED, THE CONTRACTOR SHALL PLACE TOPSOIL FROM THE ON-SITE PROPOSED WETLAND MITIGATION TEMPORARY TOPSOIL STOCKPILES, ON THE SIDES AND BOTTOM OF THE WETLAND MITIGATION SITE. TOPSOIL SHALL BE PLACED TO THE LINES, GRADES AND ELEVATIONS SHOWN IN THE PLANS WITH EQUIPMENT UTILIZING WIDE LOW-PRESSURE TIRES OR TRACKS. NINE (9") INCHES OF TOPSOIL SHALL BE PLACED, IN TWO EQUAL 4.5" LIFTS, ON THE BOTTOM OF THE WETLAND SITE. SIX (6") INCHES OF TOPSOIL SHALL BE PLACED ON THE SIDES OF THE WETLAND SITE IN ONE LIFT. ALL COSTS ASSOCIATED WITH PLACING EACH LIFT OF THE TOPSOIL SHALL BE PAID FOR UNDER ITEM 908002 - TOPSOIL.
8. ONCE THE TOPSOIL IS PLACED TO THE FINAL LINES, GRADES AND ELEVATIONS SHOWN ON THE PLANS, THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT TOPOGRAPHIC PLANS SHOWING IN-PLACE TOPSOIL GRADES AND ELEVATIONS. THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AS-BUILTS AS STATED ABOVE AND SHALL BE SUBMITTED WITHIN SEVEN (7) CALENDAR DAYS OF REACHING FINAL GRADES.
9. DELDOT SHALL REVIEW THE SUBMITTED AS-BUILT DRAWINGS TO ENSURE THE PROJECT IS GRADED IN ACCORDANCE WITH THE LINE AND GRADES OF THE PLANS AND SHALL RESPOND TO THE CONTRACTOR WITHIN FOURTEEN CALENDAR DAYS. IF THE SITE IS NOT PROPERLY GRADED, DELDOT SHALL MARK THE ERRORS ON THE DRAWINGS AND RETURN THEM TO THE CONTRACTOR. THE CONTRACTOR SHALL GRADE ANY DEFECTIVE AREAS WITHIN SEVEN CALENDAR DAYS OF RECEIVING THE MARKED PLANS FROM DELDOT AND THEN SHALL PREPARE AND SUBMIT TO DELDOT A NEW SET OF PAPER AND ELECTRONIC AS-BUILT PLANS FOR THE ENTIRE SITE SHOWING THE CORRECTIVE WORK AREAS WITHIN SEVEN CALENDAR DAYS OF COMPLETING THE CORRECTIVE WORK. DELDOT SHALL REVIEW AND, IF NECESSARY, RETURN THE PLANS TO THE CONTRACTOR WITH ANY ERRORS AGAIN MARKED ON THE PLANS WITHIN SEVEN CALENDAR DAYS. THIS PROCESS SHALL CONTINUE UNTIL THE PROJECT AND AS-BUILT DRAWINGS CONFORM TO THE PLANS AND ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. ALL COSTS FOR PREPARING THE FINAL AS-BUILT PLANS SHALL BE PAID FOR UNDER ITEM 763501 - CONSTRUCTION ENGINEERING.
10. THE CONTRACTOR SHALL INSTALL THE PIEZOMETERS AS SHOWN ON THE WETLAND MITIGATION SITE PLAN. THE INSTALLATION OF ALL DESIGNATED PIEZOMETERS SHALL BE COMPLETED BY A CERTIFIED WELL DRILLER. INSTALLATION TO BE PAID UNDER ITEM 202514 - PIEZOMETER. IT IS THE RESPONSIBILITY OF THE WELL DRILLER TO OBTAIN AND COMPLY WITH THE REQUIRED WELL PERMITS. COST OF OBTAINING THESE PERMITS IS INCLUDED IN ITEM 202514 - PIEZOMETER.
11. AFTER ACCEPTANCE OF THE WETLAND FINAL TOPSOIL GRADING BY DELDOT, THE CONTRACTOR SHALL INSTALL THE CONCRETE BLOCK LINING, THEN PLACE THE SEED AND MULCH AS SHOWN ON THE WETLAND MITIGATION SITE CROSS SECTIONS AND IN ACCORDANCE WITH THE FOLLOWING:
  - A. THE CONTRACTOR SHALL DISK THE AREA, TO A DEPTH OF 4 INCHES, THREE (3) TIMES. THE SECOND PASS WITH THE DISK SHALL BE PERPENDICULAR TO THE FIRST PASS AND SIMILARLY, THE THIRD PASS SHALL BE PERPENDICULAR TO THE SECOND PASS. ALL COSTS FOR DISKING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
  - B. THE CONTRACTOR SHALL SPREAD THE SEED MIX OVER THE WETLAND MITIGATION AREA AT THE RATES SPECIFIED IN ITEM 908503 - WETLAND MITIGATION SEED MIX AND ON THE PLANS. THE WETLAND MITIGATION GRASS SEED MIX SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR ITEM 908503 - WETLAND MITIGATION SEED MIX AND USED TO SEED THE FINISHED GRADES, AS SHOWN ON THE PLANS. AREAS SEEDED SHALL INCLUDE THE WETLAND MITIGATION SITE BOTTOM AND SLOPES. SURROUNDING UPLAND AREAS SHALL BE SEEDED WITH ITEM 908015 - PERMANENT GRASS SEEDING, STORMWATER. CONTRACTOR SHALL SCHEDULE AND COMPLETE CONSTRUCTION SO THAT THE SITE CAN BE STABILIZED WITHIN 14 DAYS AND MEET THE SAPLING PLANTING WINDOW: MARCH 1ST TO APRIL 15TH.
  - C. THE CONTRACTOR SHALL MULCH THE AREA WITH STRAW MULCH AT 4000 LB/AC AS SPECIFIED IN THE SPECIAL PROVISION FOR ITEM 911509 - MULCHING. SECURE THE STRAW MULCH AFTER EACH APPLICATION. THIS WORK SHALL BE PAID FOR UNDER ITEM 908002 - TOPSOIL. ITEM 908020 - EROSION CONTROL BLANKET MULCH SHALL BE PLACED ON THE SIDE SLOPES OF THE WETLAND SITE AS SHOWN ON THE WETLAND MITIGATION SITE TYPICAL SECTIONS.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POSITIVE DRAINAGE AND DEWATERING MEASURES AT ALL TIMES DURING WORK ACTIVITIES REQUIRING ANY EXCAVATION WITHIN THE WETLAND MITIGATION SITE. THESE MEASURES ARE INTENDED TO MAINTAIN THE GROUNDWATER LEVEL AT LEAST ONE FOOT BELOW THE EXCAVATION ELEVATION. THE CONTRACTOR SHALL ALSO PROVIDE NECESSARY DEWATERING TO STABILIZE SLOPE EXCAVATION DURING CONSTRUCTION UNTIL THE SLOPES STABILIZE AS DETERMINED BY THE ENGINEER. IN ADDITION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO GATHER ALL NECESSARY DATA AND INFORMATION TO OBTAIN ANY PERMITS FOR PUMPING GROUNDWATER THAT MAY BE REQUIRED FOR THEIR OPERATIONS. PUMPING PERMITS ARE OBTAINABLE FROM THE DNREC DIVISION OF WATER RESOURCES WATER SUPPLY WELL PERMITTING AND LICENSING BRANCH. ALL COSTS SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
13. AFTER ENSURING POSITIVE DEWATERING MEASURES, THE SITE SHALL BE PLANTED WITH TREES/SHRUBS AS SPECIFIED IN THE WETLAND MITIGATION LANDSCAPING PLAN IN ACCORDANCE WITH 908503 - REFORESTATION. CONTRACTOR MUST CONSULT WITH DELDOT ENVIRONMENTAL STUDIES OR THEIR CONSULTANT ON PLANTING WINDOW AND PLANTING CONDITIONS BEFORE TRANSPORT OF PLANTING STOCK TO THE SITE. TREES/SHRUBS SHALL BE PLANTED ON AN APPROXIMATE 6 LF BY 7 LF SPACING ± 1 LF AS NOT TO RESEMBLE A GRID OR PATTERN. SPECIES SHALL BE EQUALLY AND RANDOMLY ACROSS THE PLANTING AREA.

14. ALL SURVEY WORK, INCLUDING LAYOUT AND AS-BUILTS, FOR THE WETLAND MITIGATION SITE SHALL BE BASED OFF A SINGLE MASTER CONTROL POINT AS IDENTIFIED ON THE WETLAND MITIGATION SITE CONTROL DATA PLANS. THIS ELEVATION SHALL NOT BE CHANGED OR MODIFIED. THE MASTER CONTROL POINT SHALL NOT BE DISTURBED.
15. ANY NATIVE WOODY DEBRIS CLEARED ONSITE SHALL BE STOCKPILED AND PLACED INTO THE WETLAND FOLLOWING FINAL TOPSOIL GRADING AND BEFORE OR CONCURRENT TO SEEDING. COARSE WOODY DEBRIS SHOULD BE RANDOMLY DISTRIBUTED ACROSS THE BOTTOM OF THE SITE. THE CONTRACTOR SHALL CONSULT WITH DELDOT ENVIRONMENTAL OR THEIR DESIGNATED CONSULTANT FOR PLACEMENT.
16. REMOVAL OF DEBRIS IS INCIDENTAL TO ITEM 201000 - CLEARING AND GRUBBING.
17. REFER TO MASTER EARTHWORK SUMMARY FOR EARTHWORK DETAILS.
18. REMOVE WELLS AND ABANDON PER DNREC GUIDELINES. CONTRACTOR MUST CONTACT CENTURY ENGINEERING BEFORE REMOVAL OF WELLS TO RETRIEVE EQUIPMENT FROM WELLS:  
 EMAIL: MFETTERS@KLEINFELDER.COM  
 PHONE: (302) 734 - 9188



LOCATION MAP  
NOT TO SCALE

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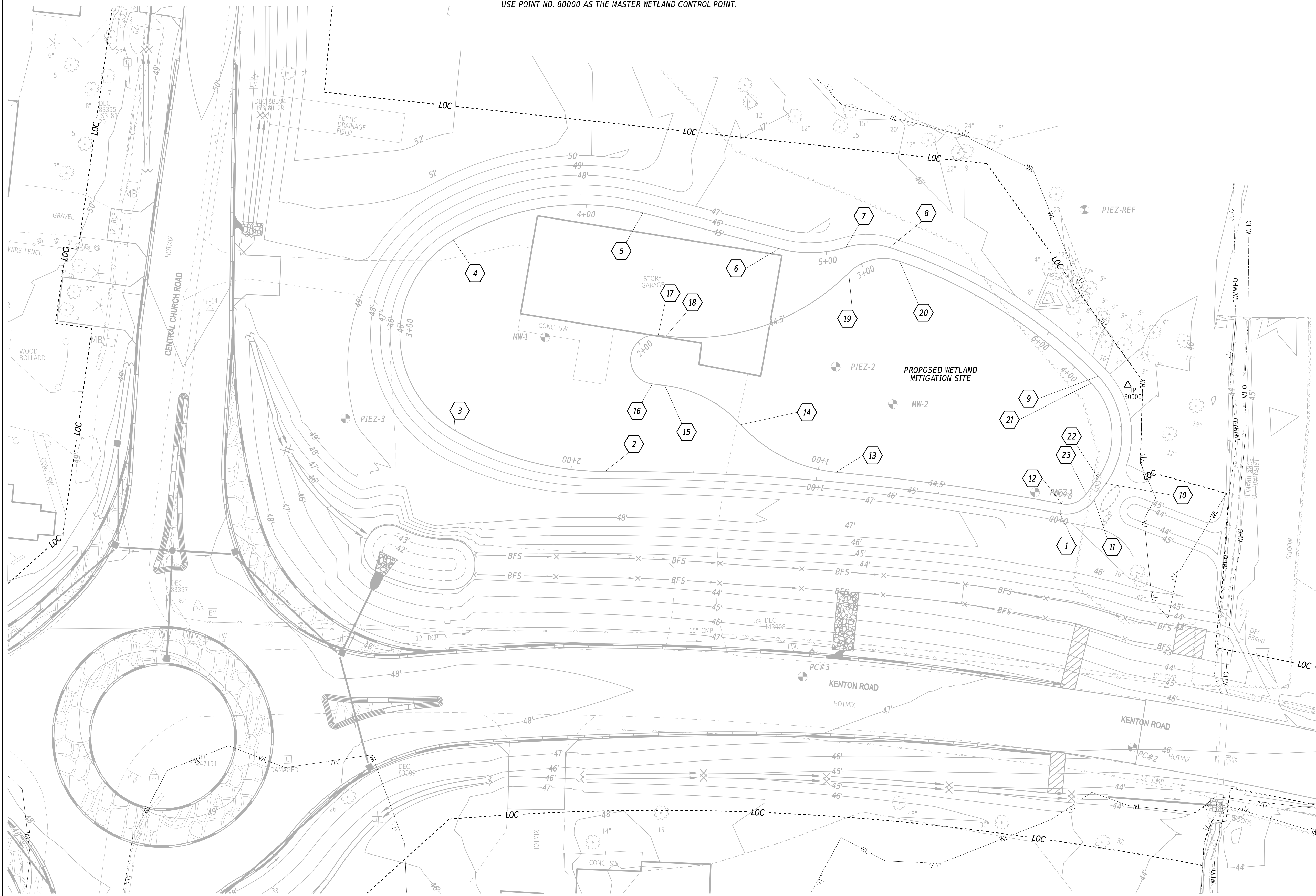
ADDENDA / REVISIONS		NOT TO SCALE	HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS	CONTRACT	BRIDGE NO.	N/A	SECTION	
				T202104204	DESIGNED BY:	A. HALLER		CEN
				COUNTY	CHECKED BY:	L. HAXTON	SHEET NO.	
				KENT			71	
							<b>WETLAND MITIGATION SITE NOTES</b>	

NOTE:

- ALL MATERIALS AND LABOR NECESSARY TO CONSTRUCT AND INSTALL THE PVC PIPE, INCLUDING BUT NOT LIMITED TO A CAP, BENTONITE CLAY, PVC PIPE, FILTER MATERIAL, AND THREADED PVC PLUG, SHALL BE INCLUDED UNDER ITEM 202514 - PIEZOMETER.

WETLAND MITIGATION CONTROL POINT DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
• TP-1	-	-	434246.9346	605587.9117	46.01
• TP-3	-	-	434221.9388	605521.2113	49.59
• TP-14	-	-	434157.2787	605420.3492	49.91
TP-80000	-	-	434480.6487	605231.2965	45.99

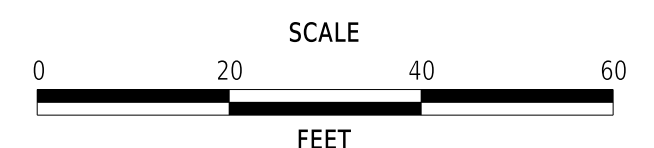
USE POINT NO. 80000 AS THE MASTER WETLAND CONTROL POINT.



EMBANKMENT BASELINE				
POINT NO.	STATION	NORTHING	EASTING	
1 PC	0+00.00	434488.0698	605289.9088	
2 PRC	1+86.03	434326.8436	605382.1693	
PI	0+93.29	434403.1362	605328.4888	
RADIUS = 996'				
2 PC	1+86.03	434326.8436	605382.1693	
3 PCC	2+50.60	434266.7881	605403.6906	
PI	2+19.12	434299.7830	605401.2096	
RADIUS = 120'				
3 PC	2+50.60	434266.7881	605403.6906	
4 PCC	3+43.39	434222.2561	605340.6230	
PI	3+25.71	434191.8866	605409.3227	
RADIUS = 45'				
4 PC	3+43.39	434222.2561	605340.6230	
5 PT	4+23.38	434278.9899	605287.2786	
PI	3+85.67	434239.3479	605301.9593	
RADIUS = 100'				
6 PC	4+80.51	434332.5666	605267.4376	
7 PRC	5+08.15	434354.5997	605251.3370	
PI	4+94.70	434345.8667	605262.5122	
RADIUS = 50'				
7 PC	5+08.15	434354.5997	605251.3370	
8 PCC	5+26.18	434369.1859	605241.2077	
PI	5+17.45	434360.3235	605244.0126	
RADIUS = 30'				
8 PC	5+26.18	434369.1859	605241.2077	
9 PCC	6+26.92	434468.7287	605235.2679	
PI	5+77.60	434418.2087	605225.6926	
RADIUS = 204'				
9 PC	6+26.92	434468.7287	605235.2679	
10 PT	6+74.44	434496.3939	605269.1515	
PI	6+55.49	434496.7958	605240.5876	
RADIUS = 34'				
11 PC	6+82.65	434496.2784	605277.3591	
1 PT/POE	0+00.00	434488.0698	605289.9088	
PI	6+91.53	434496.1535	605286.2368	
RADIUS = 14'				

EMBANKMENT BASELINE				
POINT NO.	STATION	NORTHING	EASTING	
12 POB/PC	0+00.00	434486.4155	605286.2669	
13 PRC	0+92.68	434403.9313	605328.4478	
PI	0+46.37	434444.1954	605305.4448	
RADIUS = 1000'				
13 PC	0+92.68	434403.9313	605328.4478	
14 PRC	1+37.00	434361.0976	605334.9094	
PI	1+15.90	434383.7650	605339.9687	
RADIUS = 60'				
14 PC	1+37.00	434361.0976	605334.9094	
15 PT	1+72.57	434326.5870	605339.6386	
PI	1+55.58	434342.9636	605330.8619	
RADIUS = 50'				
16 PC	1+77.68	434322.0852	605342.0513	
17 PT	2+09.10	434312.6378	605324.4233	
PI	1+93.39	434317.3615	605333.2373	
RADIUS = 10'				
18 PC	2+12.24	434315.4061	605322.9397	
19 PRC	2+93.69	434361.5359	605259.1817	
PI	2+55.99	434353.9680	605302.2730	
RADIUS = 90'				
19 PC	2+93.69	434361.5359	605259.1817	
20 PCC	3+16.05	434375.7338	605243.4125	
PI	3+06.20	434363.7008	605246.8547	
RADIUS = 20'				
20 PCC	3+16.05	434375.7338	605243.4125	
21 PCC	4+09.24	434467.9838	605239.1979	
PI	3+63.51	434421.3588	605230.3609	
RADIUS = 200'				
21 PCC	4+09.24	434467.9838	605239.1979	
22 PT	4+51.17	434492.3943	605269.0952	
PI	4+34.45	434492.7489	605243.8918	
RADIUS = 30'				
23 PC	4+59.37	434492.2788	605277.3028	
12 PT/POE	0+00.00	434486.4155	605286.2669	
PI	4+65.72	434492.1896	605283.6441	
RADIUS = XX'				

ADDENDA / REVISIONS



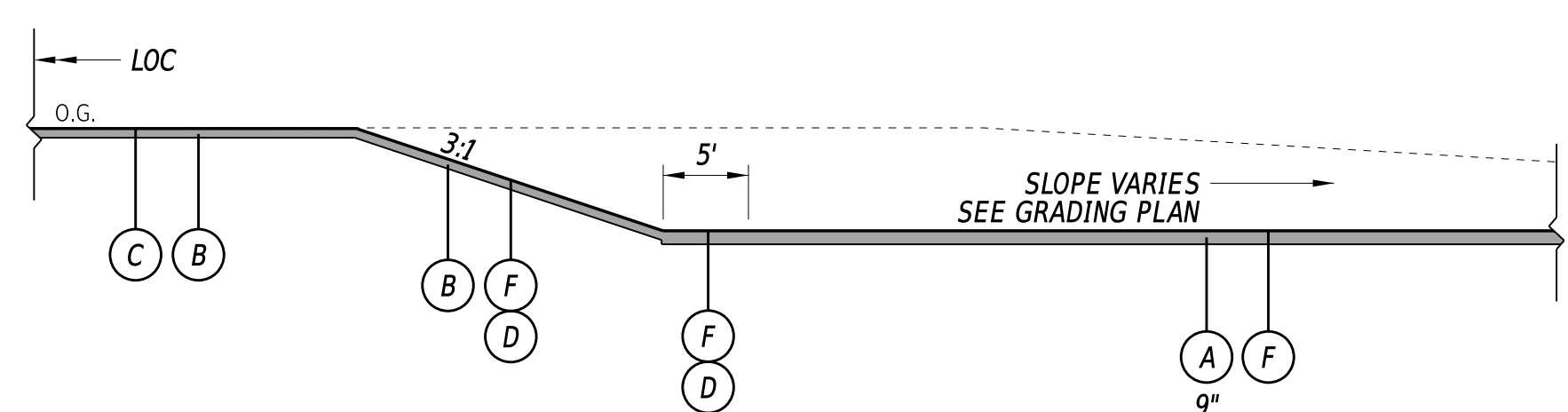
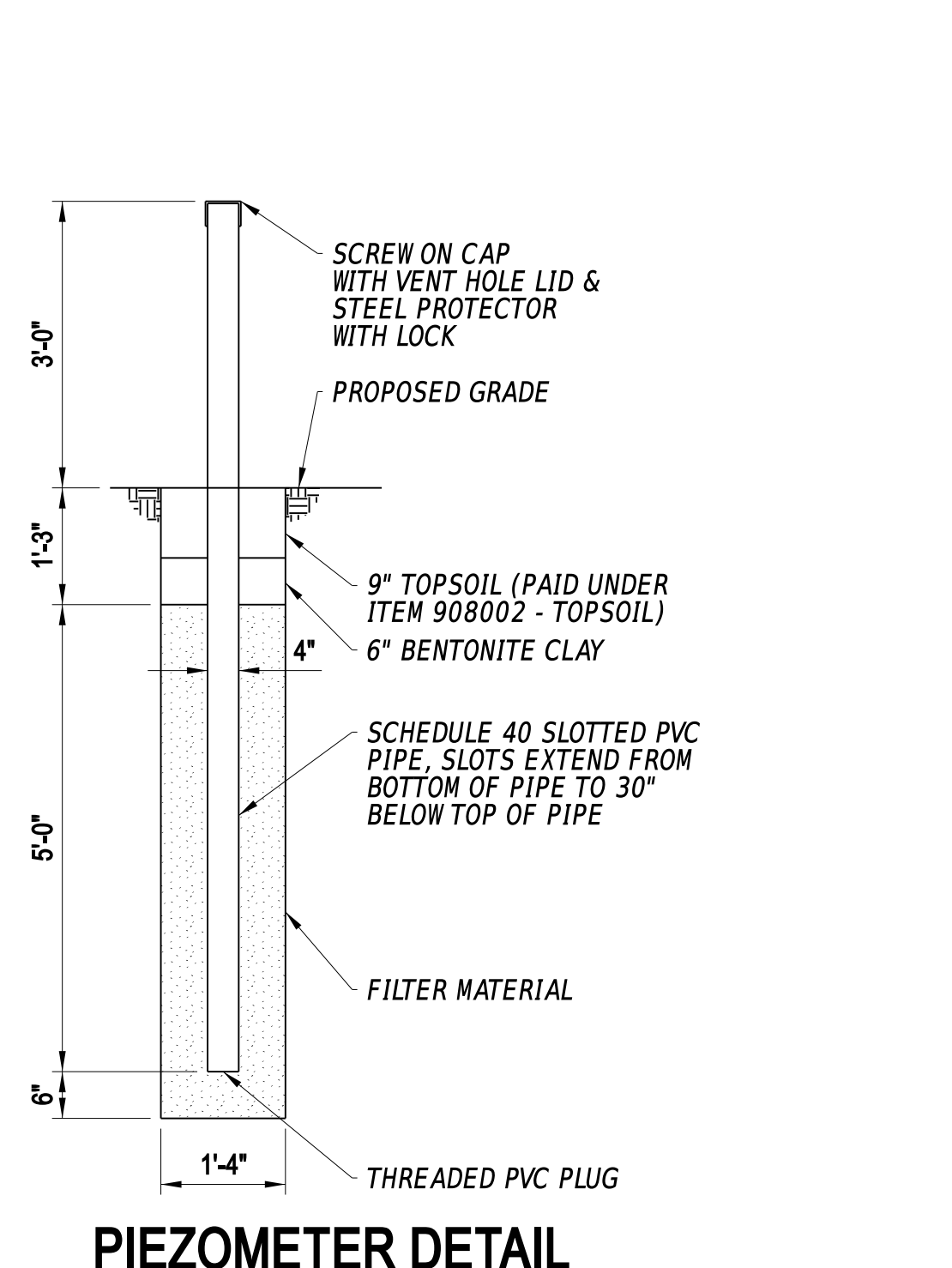
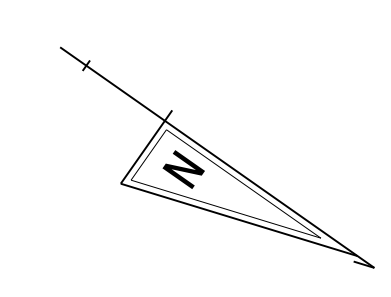
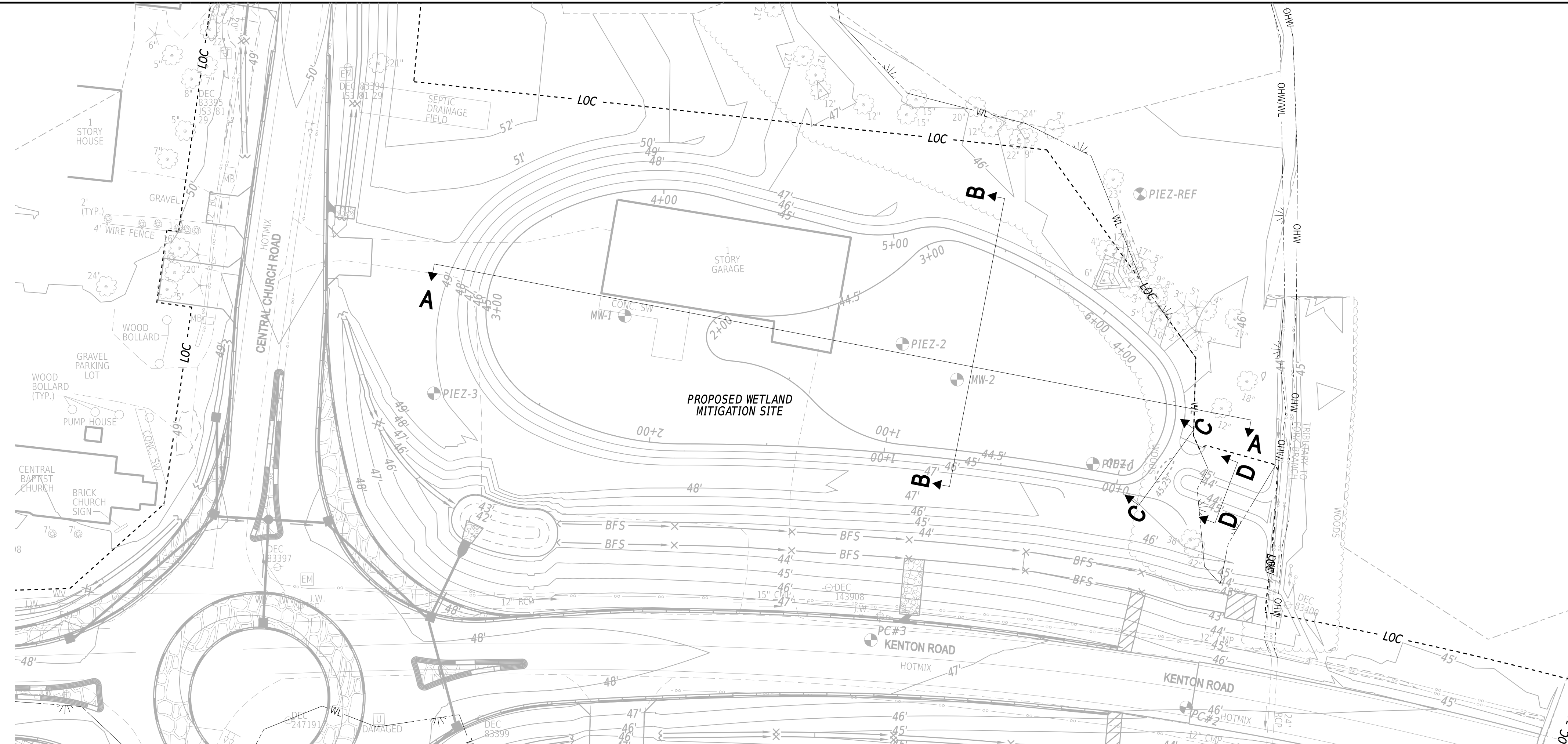
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CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

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COUNTY	CHECKED BY:	L. HAXTON
KENT		

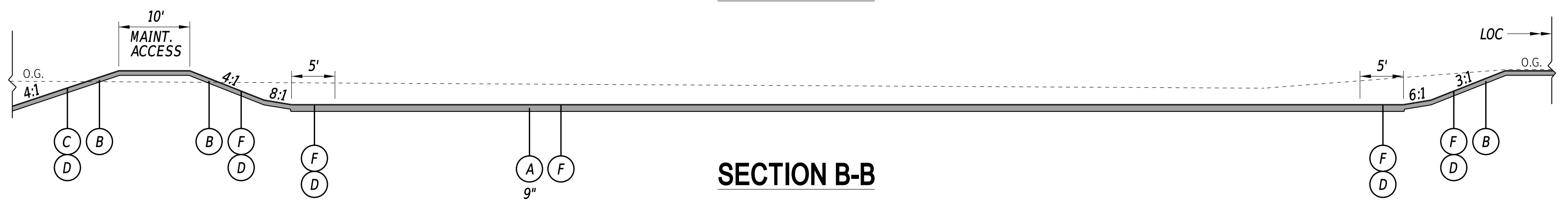
WETLAND MITIGATION  
CONTROL & HORIZONTAL  
DATA

SECTION
CEN
SHEET NO.
72

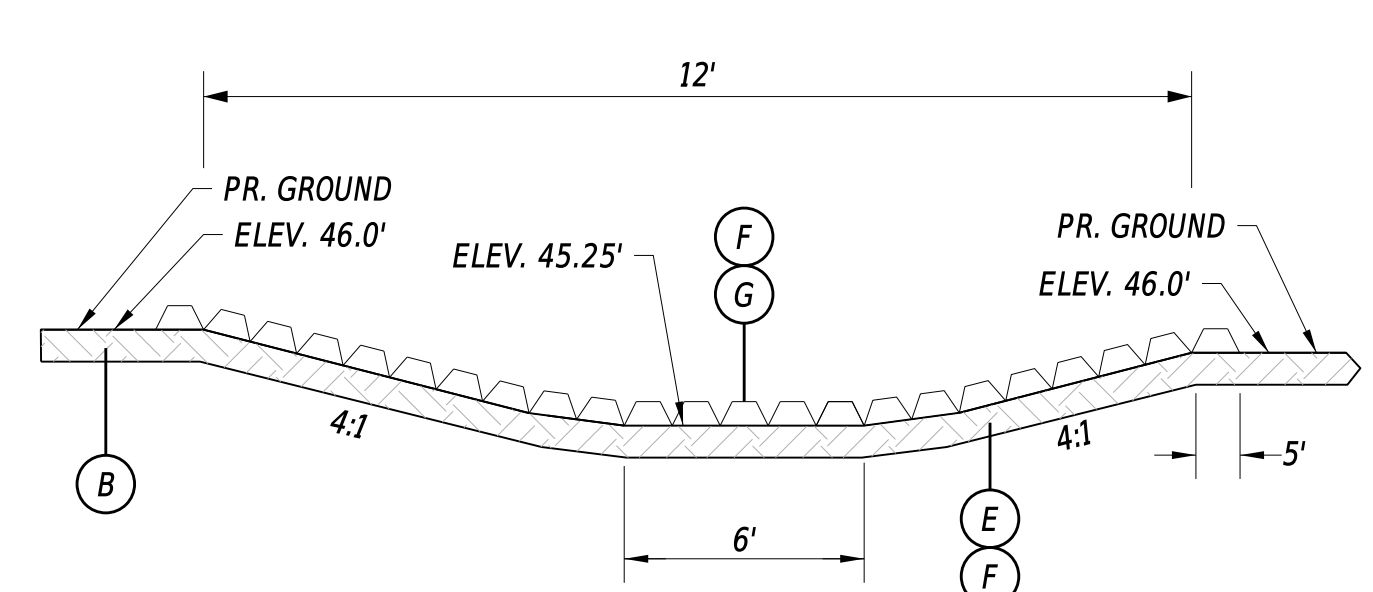
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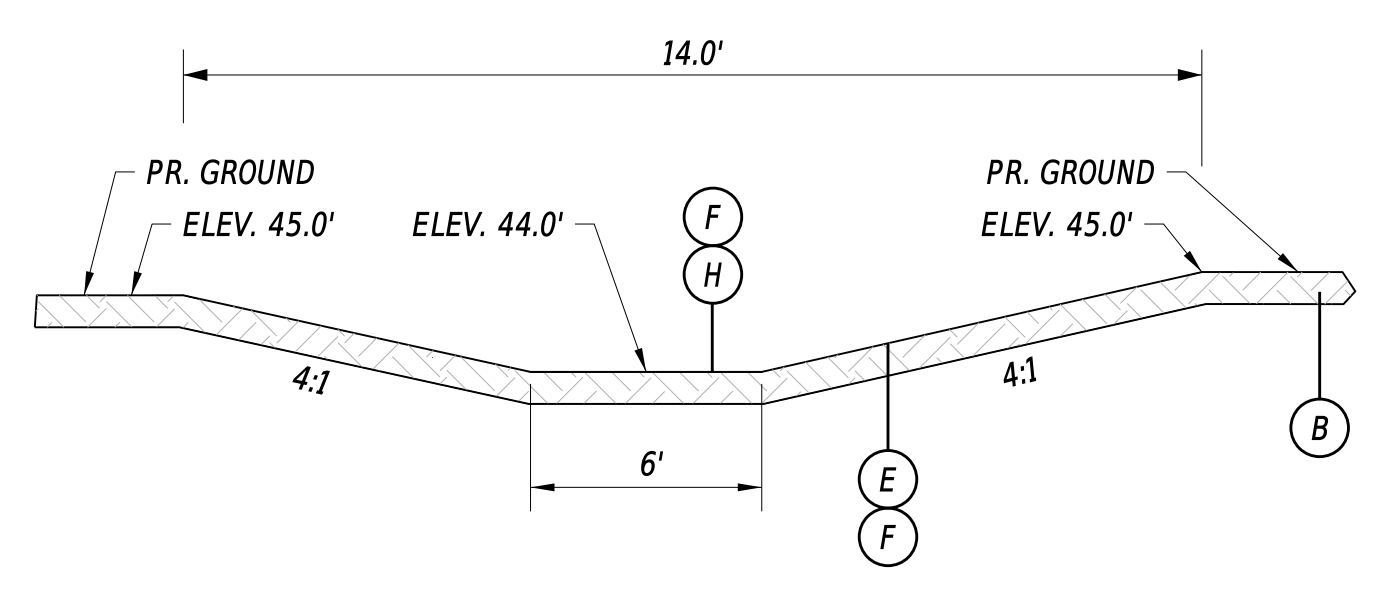
**SECTION A-A**



**SECTION B-B**



**OUTLET SECTION C-C**



**OUTLET SECTION D-D**

LEGEND	
(A)	ITEM 908002 - TOPSOIL
(B)	ITEM 908004 - TOPSOIL, 6" DEPTH
(C)	ITEM 908015 - PERMANENT GRASS SEEDING, STORMWATER
(D)	ITEM 908026 - EROSION CONTROL MULCH
(E)	ITEM 908020 - EROSION CONTROL BLANKET MULCH (SIDE SLOPES)
(F)	ITEM 908503 - WETLAND MITIGATION SEED MIX
(G)	ITEM 908524 - CONCRETE BLOCK LINING
(H)	ITEM 911509 - MULCHING

ADDENDA / REVISIONS

NOT TO SCALE

**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

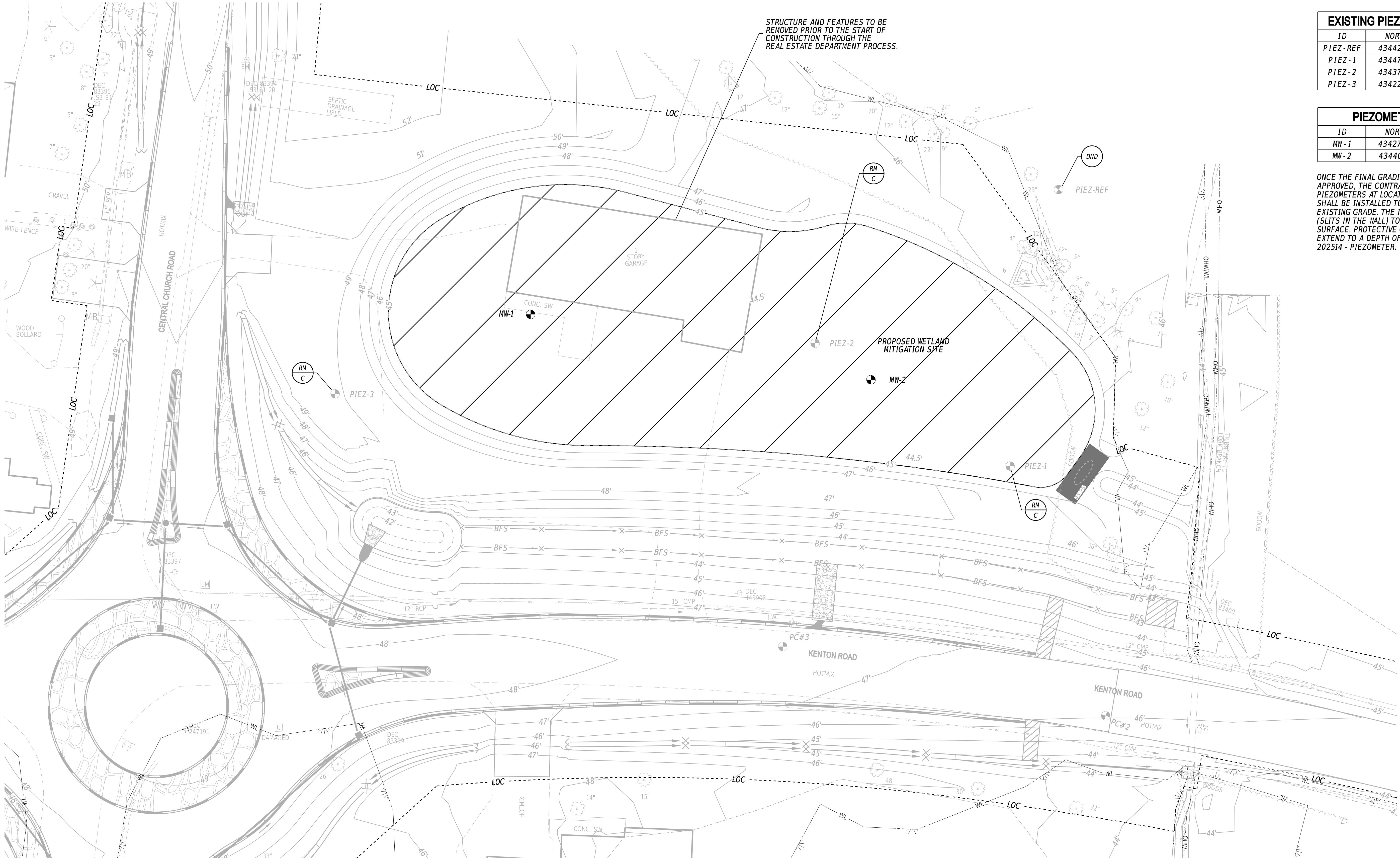
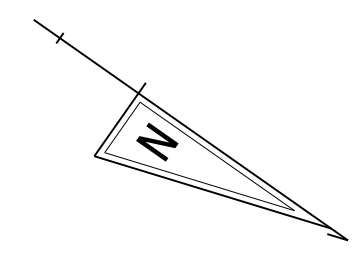
**WETLAND MITIGATION SITE  
TYPICAL SECTION**

SECTION
CEN
SHEET NO.
73

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**LEGEND**

- CONCRETE BLOCK LINING (22' X 10')
- PROPOSED WETLAND AREA: 0.5957 AC.



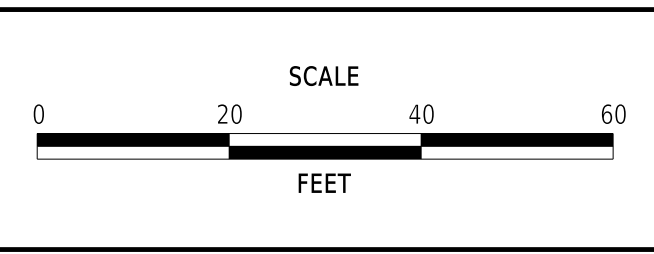
EXISTING PIEZOMETER LOCATIONS		
ID	NORTHING	EASTING
PIEZ-REF	434425.2900	605183.0510
PIEZ-1	434474.8369	605288.6768
PIEZ-2	434379.1642	605293.4626
PIEZ-3	434228.0058	605425.2573

PIEZOMETER LOCATIONS		
ID	NORTHING	EASTING
MW-1	434273.4433	605353.0566
MW-2	434404.7991	605294.0032

ONCE THE FINAL GRADING FOR THE SITE HAS BEEN APPROVED, THE CONTRACTOR SHALL INSTALL THE NEW PIEZOMETERS AT LOCATIONS NOTED. THE PIEZOMETERS SHALL BE INSTALLED TO A DEPTH OF 6.25' BELOW THE EXISTING GRADE. THE INTERIOR SHALL BE OPEN SCREENED (SLITS IN THE WALL) TO WITHIN 18 INCHES OF THE SOIL SURFACE. PROTECTIVE CASING AROUND THE WELL SHALL EXTEND TO A DEPTH OF 18 INCHES. PAID FOR UNDER ITEM 202514 - PIEZOMETER.

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ADDENDA / REVISIONS	



**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

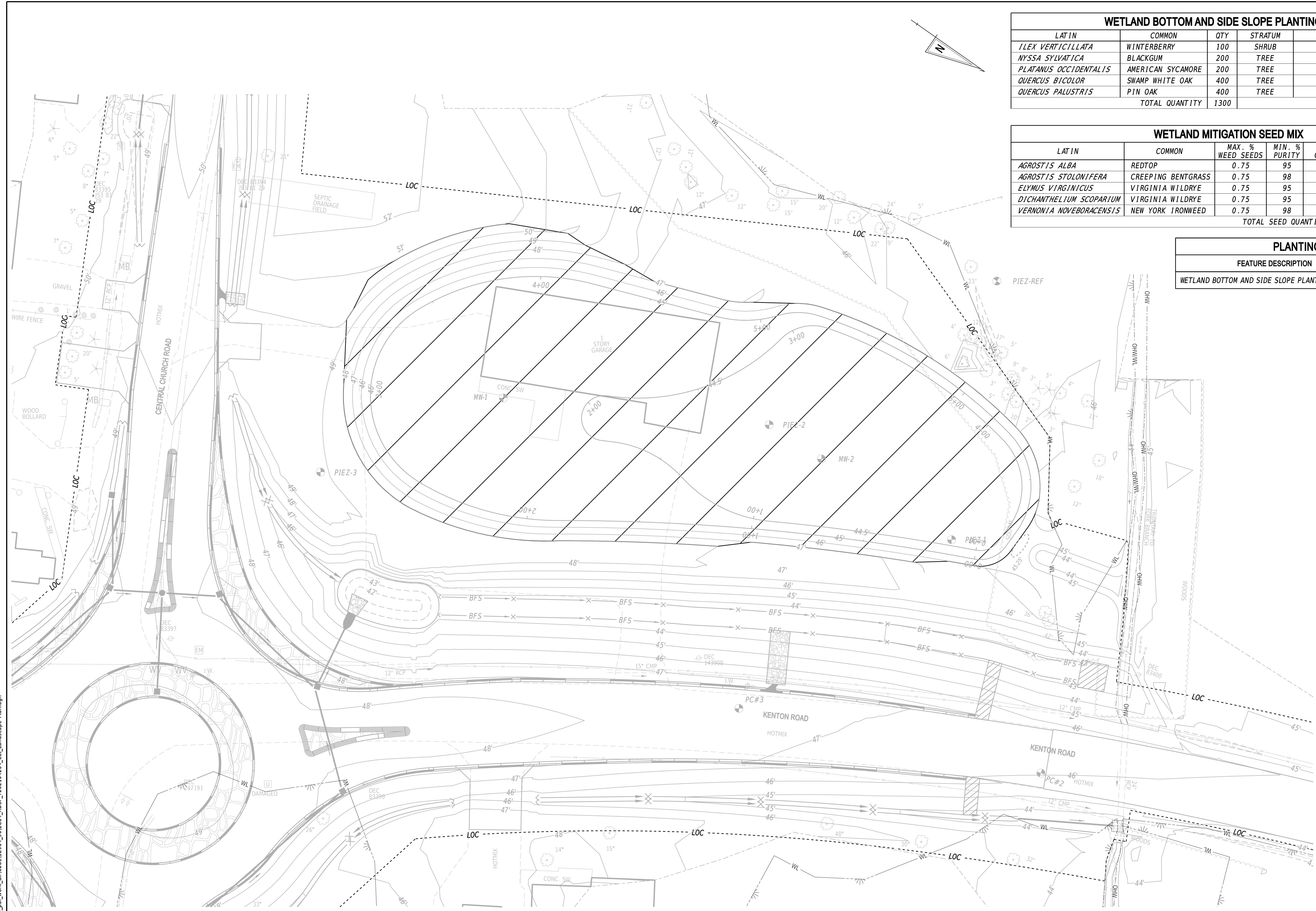
**WETLAND MITIGATION  
SITE PLAN**

SECTION CEN
SHEET NO. 74

WETLAND BOTTOM AND SIDE SLOPE PLANTING TABLE				
LATIN	COMMON	QTY	STRATUM	NOTES
<i>ILEX VERTICILLATA</i>	WINTERBERRY	100	SHRUB	
<i>NYSSA SYLVATICA</i>	BLACKGUM	200	TREE	
<i>PLATANUS OCCIDENTALIS</i>	AMERICAN SYCAMORE	200	TREE	
<i>QUERCUS BICOLOR</i>	SWAMP WHITE OAK	400	TREE	
<i>QUERCUS PALUSTRIS</i>	PIN OAK	400	TREE	
TOTAL QUANTITY		1300		

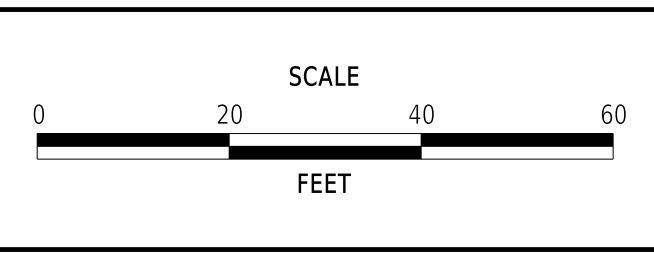
WETLAND MITIGATION SEED MIX					
LATIN	COMMON	MAX. % WEED SEEDS	MIN. % PURITY	MIN. % GERMINATION	SEEDING RATE (LB/AC)
<i>AGROSTIS ALBA</i>	REDTOP	0.75	95	90	20.0
<i>AGROSTIS STOLONIFERA</i>	CREeping BENTGRASS	0.75	98	90	12.0
<i>ELYMUS VIRGINICUS</i>	VIRGINIA WILDRYE	0.75	95	90	15.0
<i>DICHANTHELIUM SCOPARIUM</i>	VIRGINIA WILDRYE	0.75	95	90	5.0
<i>VERNONIA NOVEBORACENSIS</i>	NEW YORK IRONWEED	0.75	98	90	0.5
TOTAL SEED QUANTITY (LB/AC)					52.5

PLANTING TYPE	
FEATURE DESCRIPTION	PROPOSED
WETLAND BOTTOM AND SIDE SLOPE PLANTING (0.7589 AC.)	



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ADDENDA / REVISIONS

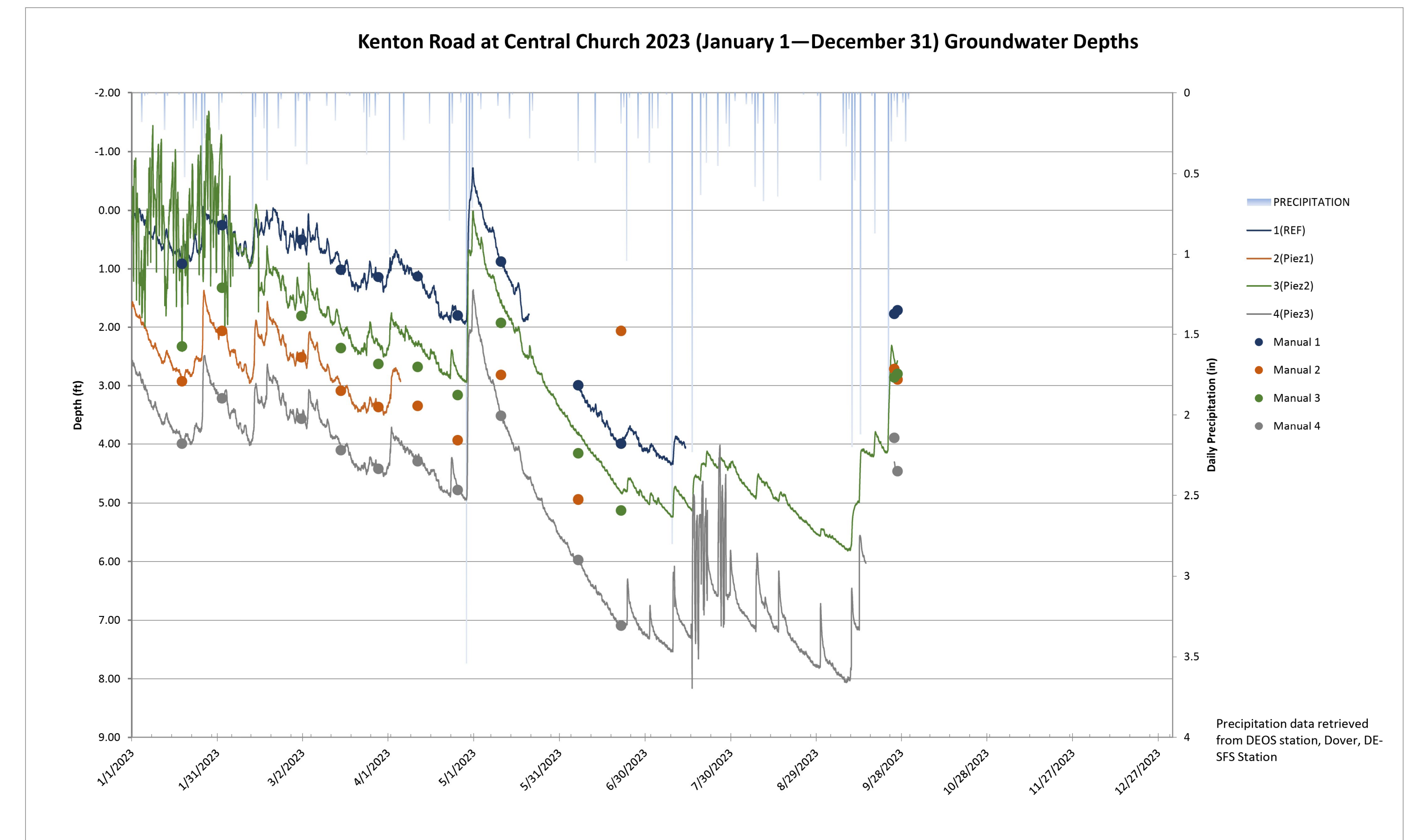
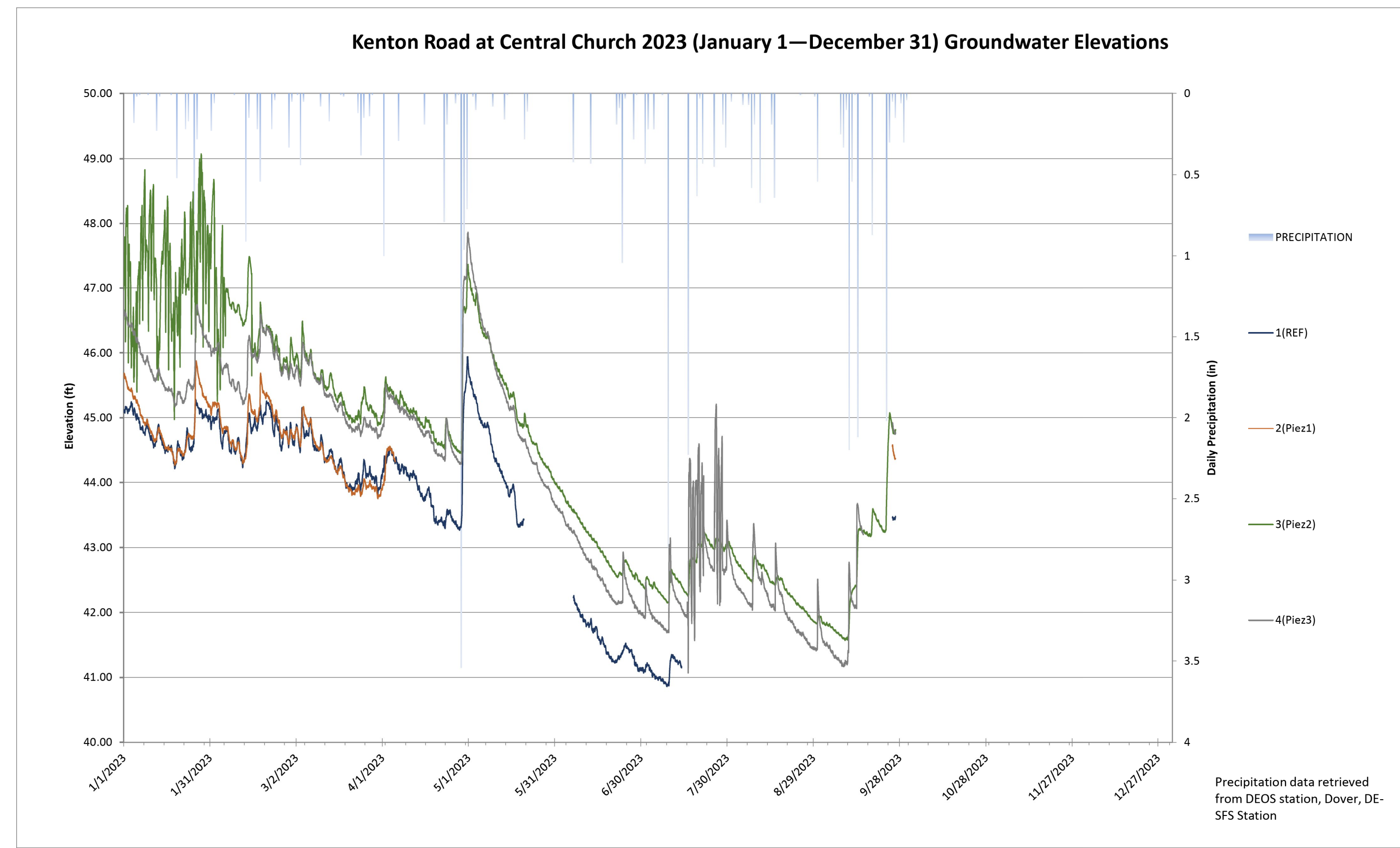
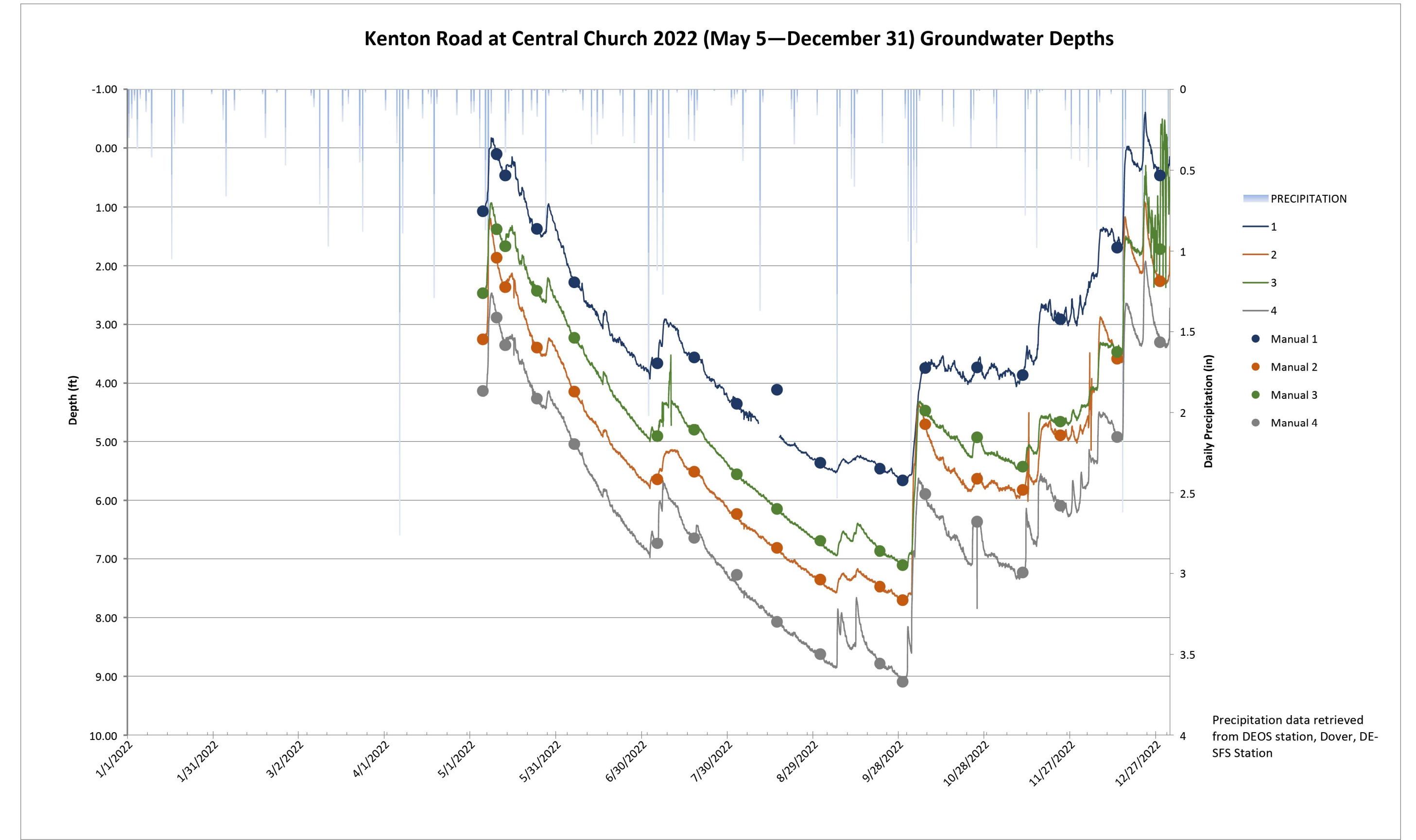
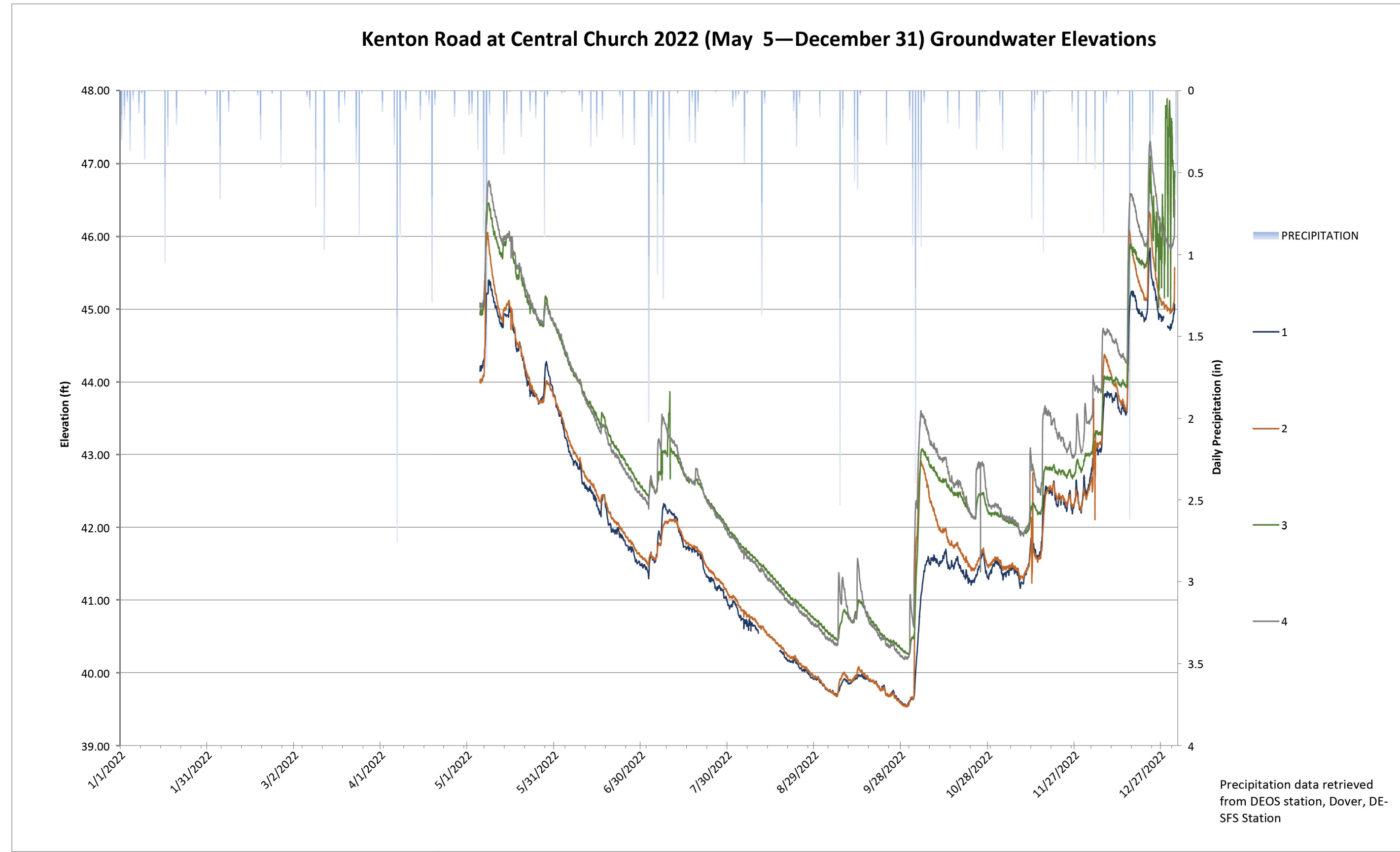


**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	T202104204	BRIDGE NO.	N/A
COUNTY	KENT	DESIGNED BY:	A. HALLER
		CHECKED BY:	L. HAXTON

**WETLAND MITIGATION  
 LANDSCAPING PLAN**

SECTION	CEN
SHEET NO.	75



21-OCT-2025 12:39 \\fcs-mde\prow21\CS\_pof\_work\_dir\628332904\_631EC05\_RDSF\_T202104204\_CEL\_Wetlands\_Subsurface.dgn

ADDENDA / REVISIONS

NOT TO SCALE

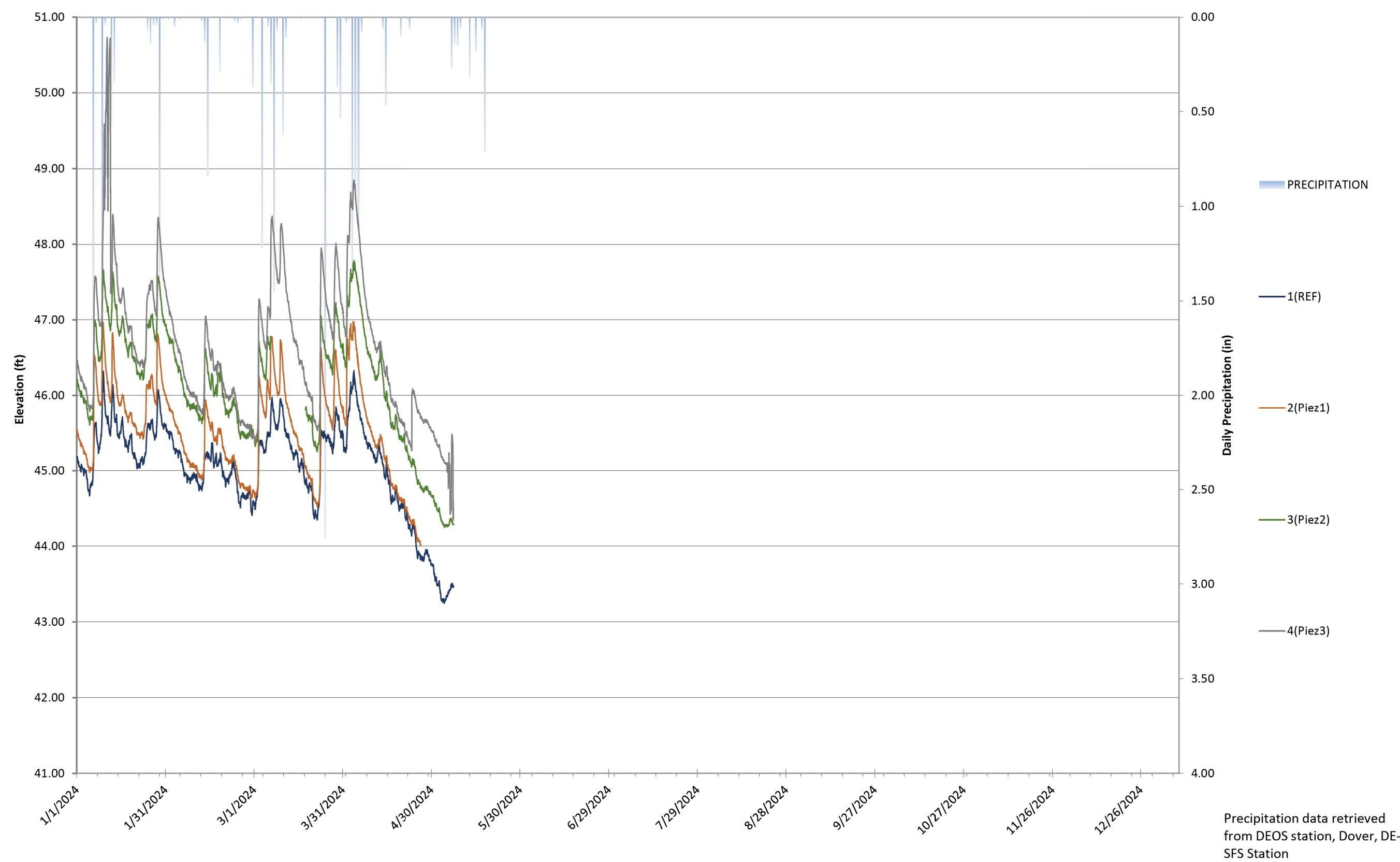
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. <b>N/A</b>
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

**WETLAND MITIGATION  
SUBSURFACE INVESTIGATIONS  
WATER LEVELS**

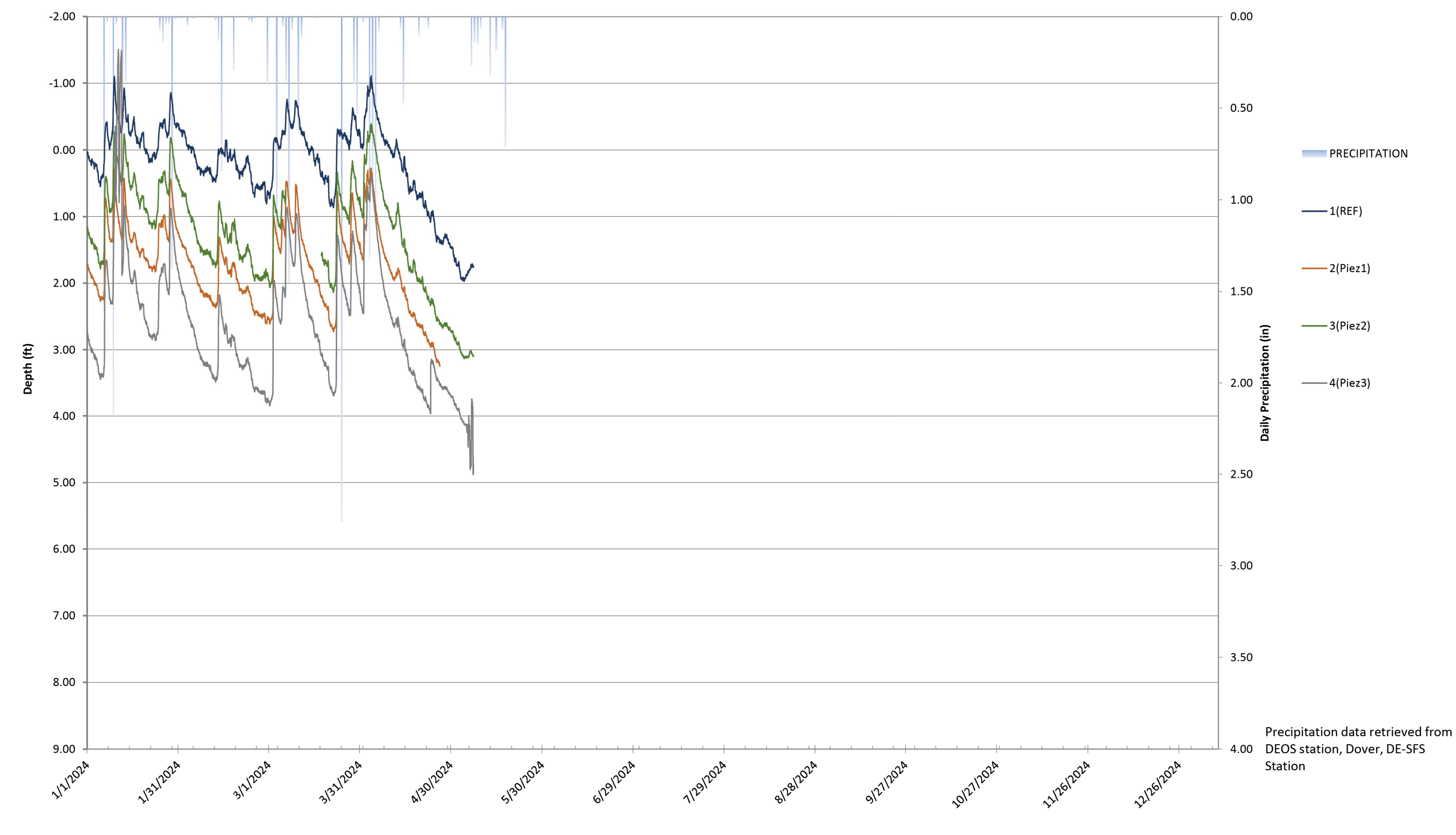
SECTION CEN
SHEET NO. 76

Kenton Road at Central Church 2024 (January 1—December 31) Groundwater Elevations



Precipitation data retrieved from DEOS station, Dover, DE-SFS Station

Kenton Road at Central Church 2024 (January 1—December 31) Groundwater Depths



Precipitation data retrieved from DEOS station, Dover, DE-SFS Station

ADDENDA / REVISIONS

NOT TO SCALE

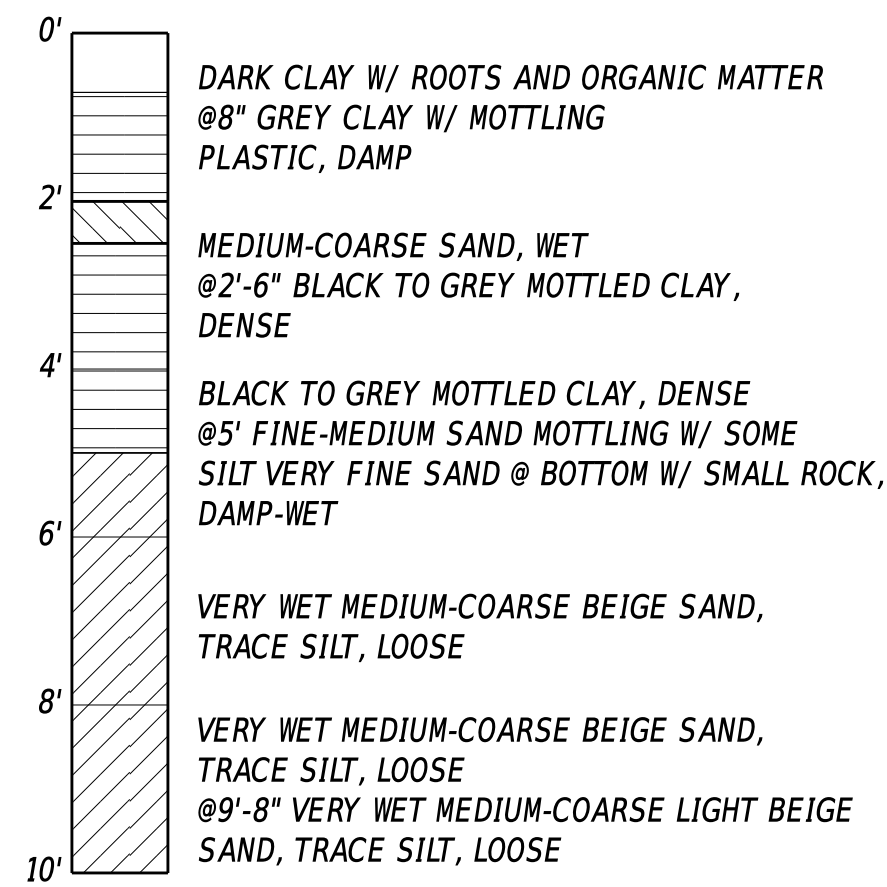
**HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**WETLAND MITIGATION  
SUBSURFACE INVESTIGATIONS  
WATER LEVELS**

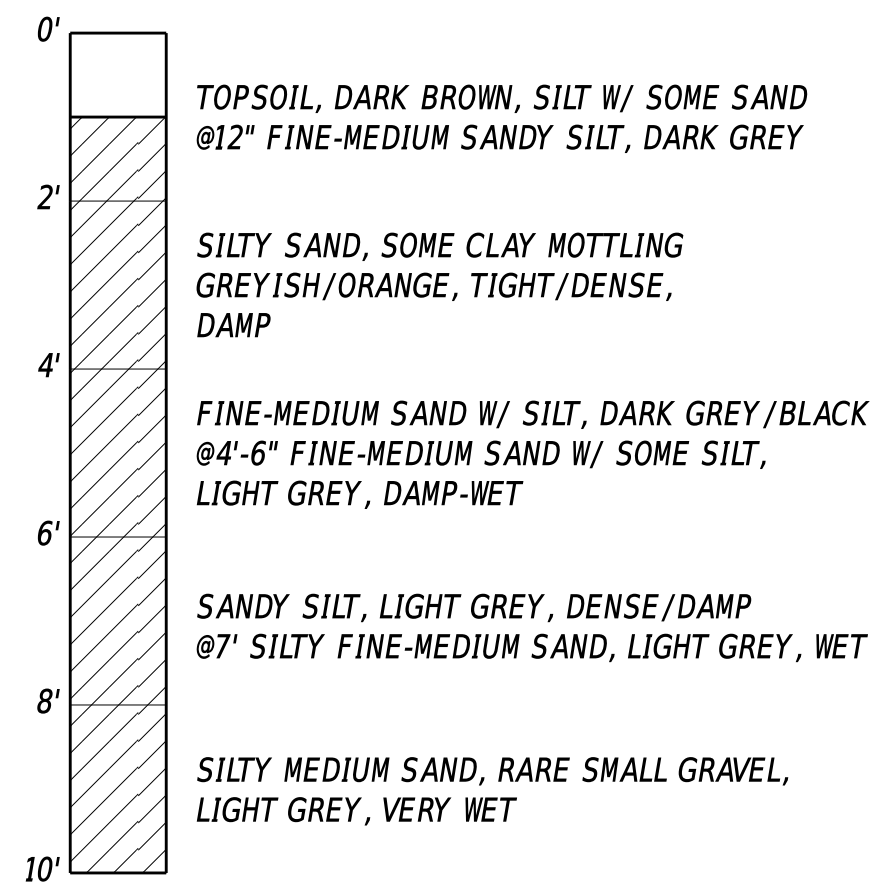
SECTION
CEN
SHEET NO.
77

PIEZ-REF  
ELEV. 45.22'



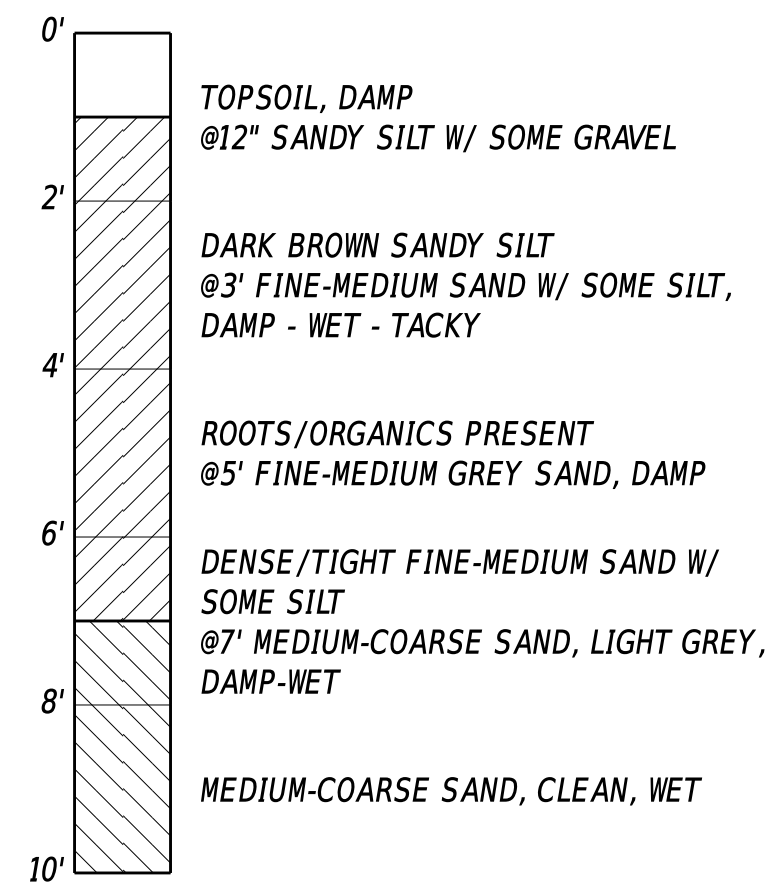
WATER LEVEL  
AT 43.22'

PIEZ-1  
ELEV. 47.25'



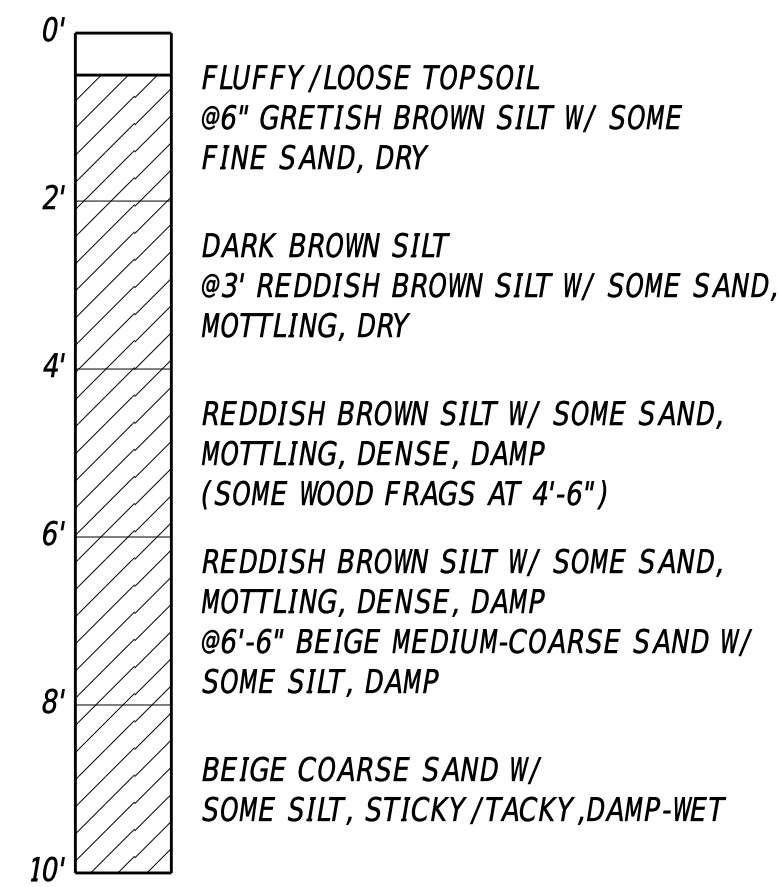
WATER LEVEL  
AT 40.25'

PIEZ-2  
ELEV. 47.39'



WATER LEVEL  
AT 39.39'

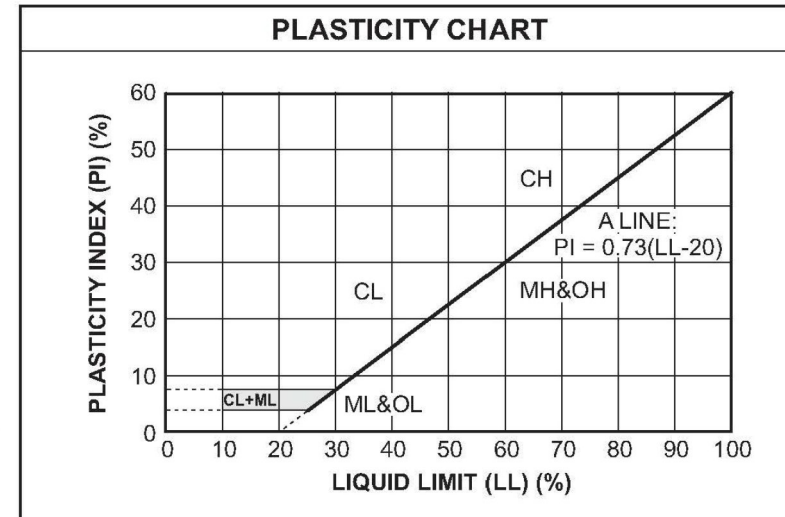
PIEZ-3  
ELEV. 49.23'



WATER LEVEL  
AT 35.23'

## UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		LABORATORY CLASSIFICATION CRITERIA	
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
Clean Gravels (Less than 5% fines)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3
	GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines	GP Not meeting all gradation requirements for GW
	Gravels with fines (More than 12% fines)		
	GM	Silty gravels, gravel-sand-silt mixtures	GM Atterberg limits below "A" line or P.I. less than 4
	GC	Clayey gravels, gravel-sand-clay mixtures	GC Atterberg limits above "A" line with P.I. greater than 7
Clean Sands (Less than 5% fines)			
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	SW	Well-graded sands, gravelly sands, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3
	SP	Poorly graded sands, gravelly sands, little or no fines	SP Not meeting all gradation requirements for GW
	Sands with fines (More than 12% fines)		
	SM	Silty sands, sand-silt mixtures	SM Atterberg limits below "A" line or P.I. less than 4
	SC	Clayey sands, sand-clay mixtures	SC Atterberg limits above "A" line with P.I. greater than 7
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity	Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size): Less than 5 percent ..... GW, GP, SW, SP More than 12 percent ..... GM, GC, SM, SC 5 to 12 percent ..... Borderline cases requiring dual symbols
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
	OL	Organic silts and organic silty clays of low plasticity	
SILTS AND CLAYS Liquid limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
	CH	Inorganic clays of high plasticity, fat clays	
	OH	Organic clays of medium to high plasticity, organic silts	
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils	



ADDENDA / REVISIONS

NOT TO SCALE

HEP KC, SR15/KENTON RD. AT  
CENTRAL CHURCH RD.  
INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

WETLAND MITIGATION  
SUBSURFACE INVESTIGATIONS  
SOIL BORINGS

SECTION
CEN
SHEET NO.
78

**GENERAL NOTES**

- THESE DRAWINGS DO NOT INCLUDE NECESSARY ELEMENTS OF CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- EXISTING UTILITIES ARE SHOWN BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE. LOCATIONS ARE NOT BASED ON A FIELD SURVEY. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES DURING CONSTRUCTION. ANY UTILITY DAMAGED SHALL BE PROMPTLY AND FULLY RESTORED TO THE SATISFACTION OF THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PLAN AND IMPLEMENT ALL NECESSARY REQUIREMENTS OF THE DELAWARE UNDERGROUND UTILITY DAMAGE PREVENTION AND SAFETY ACT.
- THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE SEDIMENT CONTROL ACT. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK OR DELDOTS REQUIREMENTS, WHICHEVER IS MORE RESTRICTIVE, AND ALL APPLICABLE LOCAL REQUIREMENTS.
- TRAFFIC AND SAFETY CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION IN CONFORMANCE WITH THE CURRENT VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD).
- ALL WORK WITHIN STATE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH STATE OF DELAWARE STANDARDS.
- FOR ROAD CROSSING WITH STEEL CASING, THE CASING SHALL EXTEND A MINIMUM 5 FEET BEYOND EDGE OF PAVEMENT.
- ROAD PLATING IS NOT PERMITTED FROM NOVEMBER 1 THROUGH APRIL 15 OR AS APPROVED BY THE ENGINEER.
- ALL OPEN CUT ROAD AND DRIVEWAY CROSSINGS THAT ARE WITHIN 4 FEET OF AN EXISTING PAVEMENT/ CONCRETE SEAM SHALL BE RESTORED TO THE SEAM.
- ALL DRIVEWAYS SHALL BE RESTORED "IN KIND".
- ALL FIRE LANES, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER. WATER MAINS CROSSING SANITARY SEWER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE WATER MAIN AND THE SEWER. CROSSINGS SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM SEWER MAIN JOINTS.
- WATER MAINS SHALL HAVE A MINIMUM 4' OF COVER.
- IF PIPE DEFLECTION IS NEEDED: MAX 1° AXIAL JOINT DEFLECTION IS PERMITTED AS WELL AS 1" MAX LONGITUDINAL PIPE DEFLECTION FOR A TOTAL OF 2" MAX DEFLECTION. THE JOINT MUST BE RESTRAINED IF THE PIPE IS TO BE LONGITUDINALLY DEFLECTED.
- NOTIFY MISS UTILITY (800) 282-8555 3 WORKING DAYS, BUT NO MORE THAN 10 WORKING DAYS, PRIOR TO ANY EXCAVATION OR DEMOLITION ACTIVITIES.
- ALL WORK MUST BE COORDINATED WITH TIDEWATER UTILITIES PRIOR TO EXECUTION OF WORK.
- ADJUST ALL VALVE BOXES TO FINAL GRADE.
- ALL ABANDONED WATER MAIN IS TO BE FLOWABLE FILLED, PLUGGED AND CAPPED IN PLACE, VALVES SHUT AND VALVE BOXES AND HYDRANTS REMOVED. 3M 1403-XR BALL MARKERS (OR APPROVED EQUAL) SHALL BE INSTALLED AT EACH END OF ABANDONED MAIN.
- ALL EXISTING WATER MAIN SHALL REMAIN ACTIVE UNTIL SUCH TIME AS NEW WATER MAIN IS APPROVED FOR OPERATION BY DHSS-OFFICE OF DRINKING WATER, THE NEW WATER MAIN IS PUT INTO SERVICE AND NEW SERVICES CAN BE ACTIVATED.
- CONTRACTOR SHALL MARK ALL EASEMENTS AND RIGHTS OF WAY PRIOR TO WORK.
- PROPOSED WORK AT CONNECTION POINTS TO STAY WITHIN EASEMENTS AND RIGHTS OF WAY.
- PIPE FITTINGS SHOWN IN THIS PLAN ARE APPROXIMATE, ADDITIONAL FITTINGS REQUIRED DURING CONSTRUCTION SHALL BE PROVIDED AND INSTALLED, ALL COSTS ARE INCIDENTAL TO ITEM 710601.
- RECOMMENDED STEEL CASING DIAMETER:

PIPE	CASING
6"	12"
8"	16"
10"	20"
12"	24"
16"	30"
20"	36"
24"	36"

OTHER DIAMETERS MEETING THE REQUIREMENTS OF CONSTRUCTION  
DETAIL A-12 MAY BE PERMITTED WITH TIDEWATER APPROVAL.

**WATER RELOCATION PROJECT NOTES:**

- CONSTRUCTION DEWATERING
  - ALL DEWATERING EQUIPMENT SUCH AS PUMPS, AIR COMPRESSORS, GENERATORS, ETC. PROPOSED FOR USE DURING CONSTRUCTION IN RESIDENTIAL AREAS SHALL BE PROVIDED WITH NOISE ENCLOSURES. ALL COSTS INCIDENTAL TO ITEM 710601.
  - THERE IS NO DEWATERING PERMIT FOR THIS PROJECT. IF THE CONTRACTOR CONSIDERS THAT, AS PART OF ITS MEANS AND METHODS OF CONSTRUCTION, A DEWATERING PERMIT IS REQUIRED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE THE REQUIRED PERMIT IN ORDER TO PROCEED WITH THE EXECUTION OF THE CONSTRUCTION. CONTRACTORS REQUIRED TO SUBMIT DEWATERING PLAN. ALL COSTS INCIDENTAL TO ITEM 710601.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND SHALL RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN THEY WERE PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION, ALL IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES SHOWN AND THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS OF ALL UTILITIES THAT MAY INTERFERE WITH THE WORK. ALL SUCH EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS SOON AS PRACTICABLE AFTER AWARD OF CONTRACT AND, IN ANY EVENT, A SUFFICIENT TIME IN ADVANCE OF CONSTRUCTION TO AVOID POSSIBLE DELAYS TO THE CONTRACTOR'S WORK. WHEN SUCH EXPLORATORY EXCAVATIONS SHOW THE UTILITY LOCATION AS SHOWN TO BE IN ERROR, THE CONTRACTOR SHALL SO NOTIFY TIDEWATER AND DELDOT. ALL COSTS INCIDENTAL TO 710601.
- THE CONTRACTOR MAY BE REQUIRED TO COORDINATE THE BRACING OF UTILITY POLES WITH THE UTILITY OWNER. ANY REQUIRED ELECTRICAL OUTAGES SHALL BE INCLUDED IN THE CONTRACTOR'S CPM SCHEDULE AND ARE INCIDENTAL TO THE WORK BEING PERFORMED. THE CONTRACTOR WILL BE WORKING IN CLOSE PROXIMITY TO EXISTING OVERHEAD UTILITIES AND PROPER EQUIPMENT SHALL BE UTILIZED TO AVOID IMPACTS TO THE EXISTING FACILITY. ALL COSTS ARE INCIDENTAL TO THE CONTRACT AND WILL NOT BE CONSIDERED FOR ADDITIONAL TIME EXTENSIONS OR CAUSE FOR CONTRACT DELAY OR ADDITIONAL COMPENSATION.
- CONTRACTOR SHALL INSTALL THRUST BLOCKS PER TIDEWATER STANDARDS AND ALL COSTS ARE INCIDENTAL TO ITEM 710601.
- CONTRACTOR MAY BE REQUIRED TO MODIFY THRUST BLOCKS AS DETERMINED BY THE ENGINEER AND OWNER IN THE FIELD.
- REMOVAL OF EXISTING CONCRETE THRUST BLOCKS ARE INCIDENTAL TO ITEM 710601.
- CONTRACTOR SHALL STAKE ELEVATION AND LOCATION OF PROPOSED WATER LINE FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL AS-BUILT INSTALLED WATER LINE AT THE END OF EACH WORK DAY. ALL COSTS ARE INCIDENTAL TO ITEM 710601.
- THE CONTRACTOR SHALL FOLLOW THE APPROVED PLAN FOR LAYOUT OF THE PROPOSED FACILITIES. IF THE CONTRACTOR DEVIATES FROM THE PLAN AND A CONFLICT IS PRODUCED, NO ADDITIONAL COMPENSATION OR TIME EXTENSIONS SHALL BE PROVIDED TO RESOLVE.

**EXISTING UNDERGROUND UTILITIES COORDINATION NOTES:**

- THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON PLANS HAS BEEN OBTAINED FROM INFORMATION SUPPLIED BY DELDOT. NEITHER THE OWNER OR THE ARCHITECT/ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION SHOWN. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIALS OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF HIS OPERATIONAL PLANS. IN THE EVENT OF AN UNEXPECTED UTILITY INTERFERENCE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO PERFORMING ANY EXCAVATION GREATER THAN 6 INCHES, THE CONTRACTOR SHALL COORDINATE WITH TIDEWATER UTILITIES AND ALL OTHER UTILITY COMPANIES TO DETERMINE THE LOCATION OF UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL ORGANIZATIONS THAT CONTROL EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA OR WOULD BE AFFECTED BY CONSTRUCTION WORK AROUND THE EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOT START EXCAVATION UNTIL ALL UTILITY LINE LOCATIONS HAVE BEEN STAKED OR OTHERWISE CLEARLY MARKED AND DOCUMENTATION FURNISHED TO THE OWNER. ALL MARKINGS SHALL BE CONSIDERED APPROXIMATE, AND UTILITIES OTHER THAN THOSE SHOWN SHALL BE CONSIDERED TO EXIST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEFINITE LOCATION OF EACH UTILITY WITHIN THE WORK AREA. CARE SHALL BE EXERCISED DURING EXCAVATION WORK TO AVOID DAMAGING OR DISRUPTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIR FOR DAMAGE TO ANY UTILITY CAUSED BY THE CONTRACTOR'S WORK.
- WHERE EXISTING UNDERGROUND UTILITIES OR OTHER CONSTRUCTION ARE EXPECTED TO BE IN PROXIMITY TO PROPOSED CONSTRUCTION, OR WHEN APPROACHING EXISTING UTILITIES OR STRUCTURES FOR CONNECTIONS, THE CONTRACTOR SHALL DIG TEST PITS TO DETERMINE THE EXACT LOCATION AND INVERTS OF THE EXISTING UTILITY TO ALLOW FOR POSSIBLE CHANGES TO THE PROPOSED UTILITY IN LINE AND/OR GRADE. THE CONTRACTOR SHALL ALSO DIG TEST PITS IN THE LOCATION OF THE PROPOSED CONNECTIONS TO EXISTING UTILITIES AND SHALL MAKE ALL MEASUREMENTS NECESSARY TO ENSURE PROPER CONNECTION. ANY NECESSARY CHANGES IN LINE OR GRADE OF WORK CAUSED BY FAILURE TO TAKE SUCH PRECAUTIONS SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL COSTS ARE INCIDENTAL TO 710601.
- WHEN IT IS NECESSARY TO EXCAVATE NEAR OR INTERFERE WITH ANY UTILITY, SEWER LINE, WATER SERVICES, DRAINAGE PIPE, CATCH BASIN, CULVERT, OR OTHER STRUCTURES, THE CONTRACTOR SHALL MAINTAIN THE SAME IN WORKING ORDER AND SHALL REPAIR AND MAKE GOOD ANY DAMAGE DONE DURING THE PROGRESS OF THE WORK AT THE EXPENSE OF THE CONTRACTOR.
- WHERE EXISTING UTILITIES CROSS THE TRENCH EXCAVATION, THEY SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO CONSTRUCTION. ALL METHODS FOR SUPPORTING AND MAINTAINING THESE UTILITIES SHALL BE SUBJECT TO REVIEW BY THE UTILITY OWNER. CARE SHALL BE TAKEN TO ENSURE THAT THE EXISTING UTILITY GRADES AND ALIGNMENT ARE MAINTAINED AND ANY PIPE JOINTS ARE NOT DISTURBED. BACKFILL SHALL BE CAREFULLY PLACED AND TAMPED TO PREVENT DAMAGE OR FUTURE SETTLEMENT. ANY DAMAGE OR MISALIGNMENT OF THE UTILITIES DUE TO CONSTRUCTION OR SETTLEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. ALL COSTS FOR SUPPORTING OR BRACING UTILITIES UNDERGROUND OR AERIAL ARE INCIDENTAL TO ITEM 710601.
- ANY UNPROTECTED CABLE (DIRECT BURIED) ENCOUNTERED THAT IS VERIFIED AS NOT ABANDONED IN PLACE SHALL BE PROTECTED. THE UTILITY OWNER MAY DIRECT THE CABLE BE PLACED IN SPLIT DUCT OF APPROPRIATE SIZE AND CONCRETE ENCASED THROUGH THE AREA OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID HAVING TO CUT AND SPLICE DIRECT BURIED CABLE. THE CONTRACTOR SHALL NOTE SPLIT DUCT PORTIONS ON AS-BUILTS. ALL COSTS ARE INCIDENTAL TO THE ITEM BEING PLACED THAT NECESSITATED THE UTILITY PROTECTION.
- ALL SUITABLE EXCESS EXCAVATED MATERIALS SHALL BE USED AS TRENCH BACKFILL AND ANY EXCESS SHALL BE DISPOSED OF OFFSITE. ALL COSTS FOR EXCAVATION, BACKFILL, BACKFILLING AND DISPOSAL ARE INCIDENTAL TO ITEM 710601.
- INTERRUPTION OF EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR AT THE DIRECTION OF THE UTILITY OWNER(S). PROPER NOTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVAL RECEIVED FROM THE UTILITY OWNER, PRIOR TO INTERRUPTION OF ANY UTILITIES.

INDEX OF SHEETS			
SECTION	SHEET DESCRIPTION	SHEET	SHEET NO(S)
CEN	NOTES SHEETS	TW - 01	79
CEN	ITEM SCHEDULE	TW - 02	80
CEN	HORIZONTAL AND VERTICAL CONTROL	TW - 03	81
CEN	PLAN	TW - 04	82
CEN	DETAILS	TW - 05	83
CEN	DETAILS	TW - 06	84
CEN	SEQUENCE OF CONSTRUCTION AND SCHEDULES	TW - 07	85

LEGEND	
	UTILITY TEST HOLE LOCATION
F.H.	EXISTING FIRE HYDRANT
W.M.	EXISTING WATER METER
W.V.	EXISTING WATER VALVE
F.H.	PROPOSED FIRE HYDRANT
W.M.	PROPOSED WATER METER
W.V.	PROPOSED WATER VALVE

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ADDENDA / REVISIONS		NOT TO SCALE	HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS	CONTRACT	BRIDGE NO.	N/A	TIDEWATER WATER RELOCATION NOTES	TW-01	
				T202104204	DESIGNED BY:	A. HALLER		SECTION	CEN
				COUNTY	CHECKED BY:	L. HAXTON		SHEET NO.	79
				KENT					

**LUMP SUM BREAKDOWN FOR ITEM 710601;  
 INSTALLATION OF WATER MAIN AND ACCESSORIES;  
 HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS  
 DELDOT CONTRACT T202104204**

SECTION DESIGNATION	ITEM NUMBER	PIPE SIZE AND TYPE	LENGTH	CASING *RECOMMENDED DIAMETER, SEE GENERAL NOTE 24 FOR REQUIREMENTS	TOP OF PIPE EL IN	TOP OF PIPE EL OUT	REQUIRED HYDRANTS, VALVES, & APPURTENANCES
TU-1 STATION 1000+00 TO STATION 1004+71.51 STATION 1100+00 TO STATION 1101+95.02 (ALL BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE LINEAR FEET OF PIPE BEING INSTALLED)	710601	12" PVC C909 CL235	667 LF	24" STEEL @ 53 FT*	44.00'	44.01'	2 EA, GATE VALVE 12" 1 EA, FIRE HYDRANT ASSEMBLY 2 EA, 2" TEMPORARY BLOW-OFF W/CURBSTOP 1 EA, CONNECT TO EXISTING 12" MAIN (KENTON RD.) 1 EA, CONNECT TO EXISTING 12" MAIN (CENTRAL CHURCH RD.)
TU-2 STATION 1004+71.51 TO STATION 1005+62.49 (ALL BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE LINEAR FEET OF PIPE BEING INSTALLED)	710601	12" PVC C909 CL235	91 LF	N/A	42.00'	40.47'	1 EA, CONNECT TO EXISTING 12" MAIN
TU-3 ADDITIONAL ITEMS STATION 109+40	710601	N/A	N/A	N/A	N/A	N/A	1 EA, 12"X6" WET TAP (FOR HYDRANT) 1 EA, FIRE HYDRANT (EXCLUDES HYDRANT TEE AND VALVE)

ADDENDA / REVISIONS

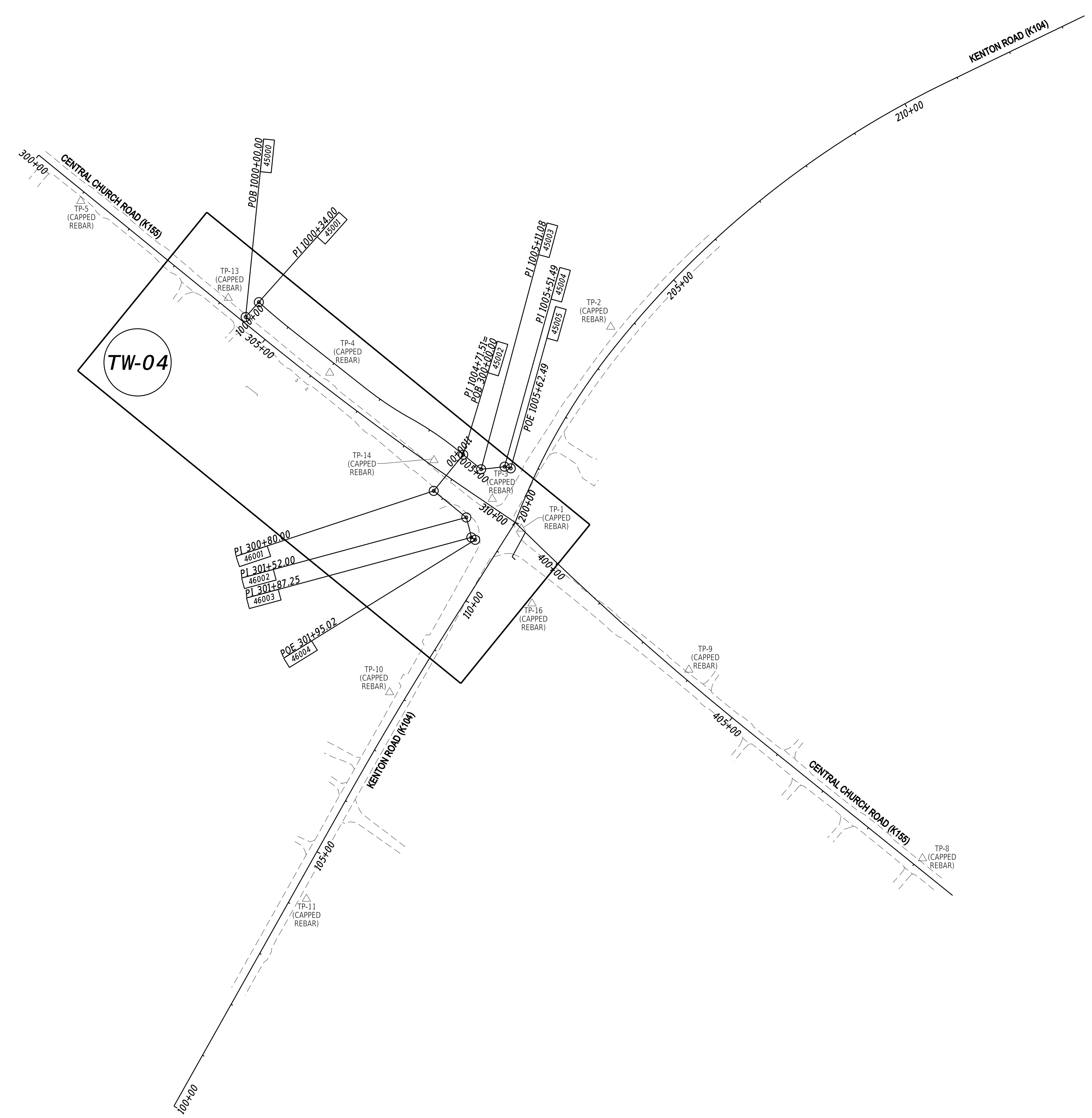
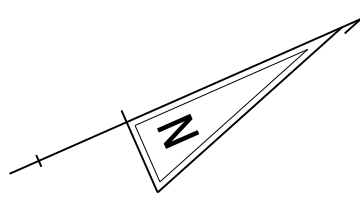
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**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**TIDEWATER  
 WATER RELOCATION  
 ITEM SCHEDULE**

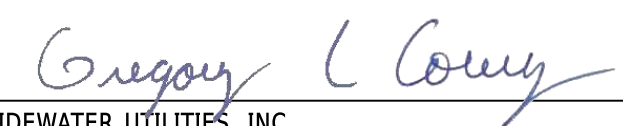
<b>TW-02</b>
SECTION
CEN
SHEET NO.
80


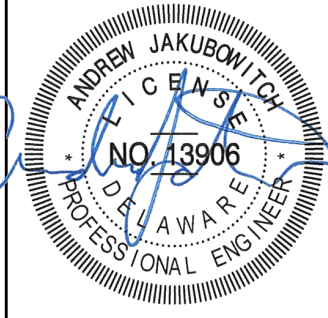


CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
45000	1000+00.00	0.00	433960.9308	605065.7224
45001	1000+34.00	0.00	433991.8426	605051.5641
45002	1004+71.51	0.00	434206.9058	605431.7799
45003	1005+11.08	0.00	434224.9038	605467.0212
45004	1005+51.49	0.00	434263.4688	605479.0867
45005	1005+62.49	0.00	434271.9844	605486.0535
46001	300+80.00	0.00	434135.6594	605468.1660
46002	301+52.00	0.00	434168.4069	605532.2877
46003	301+87.25	0.00	434162.5084	605567.0306
46004	301+95.02	0.00	434166.8680	605573.4618

HORIZONTAL / VERTICAL CONTROL DATA					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP-1	171+53.81	34.37	434246.9346	605587.9117	46.01
TP-2	175+26.87	-27.02	434526.3740	605333.3476	46.30
TP-3	209+74.36	-34.18	434221.9388	605521.2113	49.59
TP-4	206+22.00	-25.78	434054.1950	605211.2276	49.37
TP-5	201+05.69	15.60	433782.5158	604770.2242	48.10
TP-8	309+19.91	-17.04	434648.0317	606381.7266	44.61
TP-9	304+05.59	-17.45	434412.0677	605924.7326	47.89
TP-10	167+98.90	-25.09	433927.3979	605753.4253	47.81
TP-11	164+20.62	24.00	433654.3414	606019.7717	47.43
TP-13	204+06.30	-15.30	433946.7579	605023.8875	47.78
TP-14	208+55.13	-22.47	434157.2787	605420.3492	49.91
TP-16	301+25.25	62.81	434211.9574	605712.6185	46.54

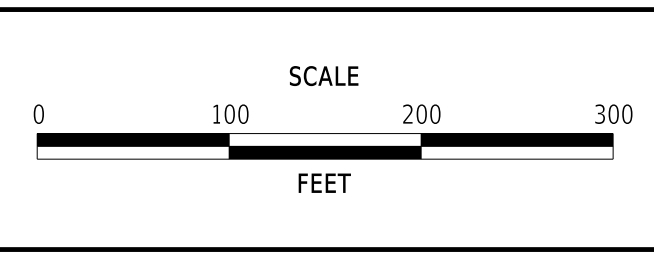
**DATUM REFERENCE:**  
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011 / EPOCH 2010.00).  
 VERTICAL - THIS PROJECT IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 BASED ON MODELED GEOID 12A).

**RECOMMENDED BY:**  
  
 TIDEWATER UTILITIES, INC. 10-28-25  
DATE

**PREPARED BY**  
  
 Andrew J. Jakubchik  
 ENGINEER  
 A Kleinfelder Company  
 RECOMMENDED 10-28-25  
DATE  
  
 SEAL

21-OCT-2025 16:36 \\s:\m-deloop\211\CS\_pof\_work\_dir\6298\32904\_100\HV01\_RDSF\_T202104204\_CEL\_TW.dgn

ADDENDA / REVISIONS

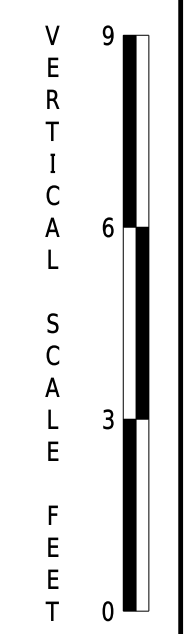
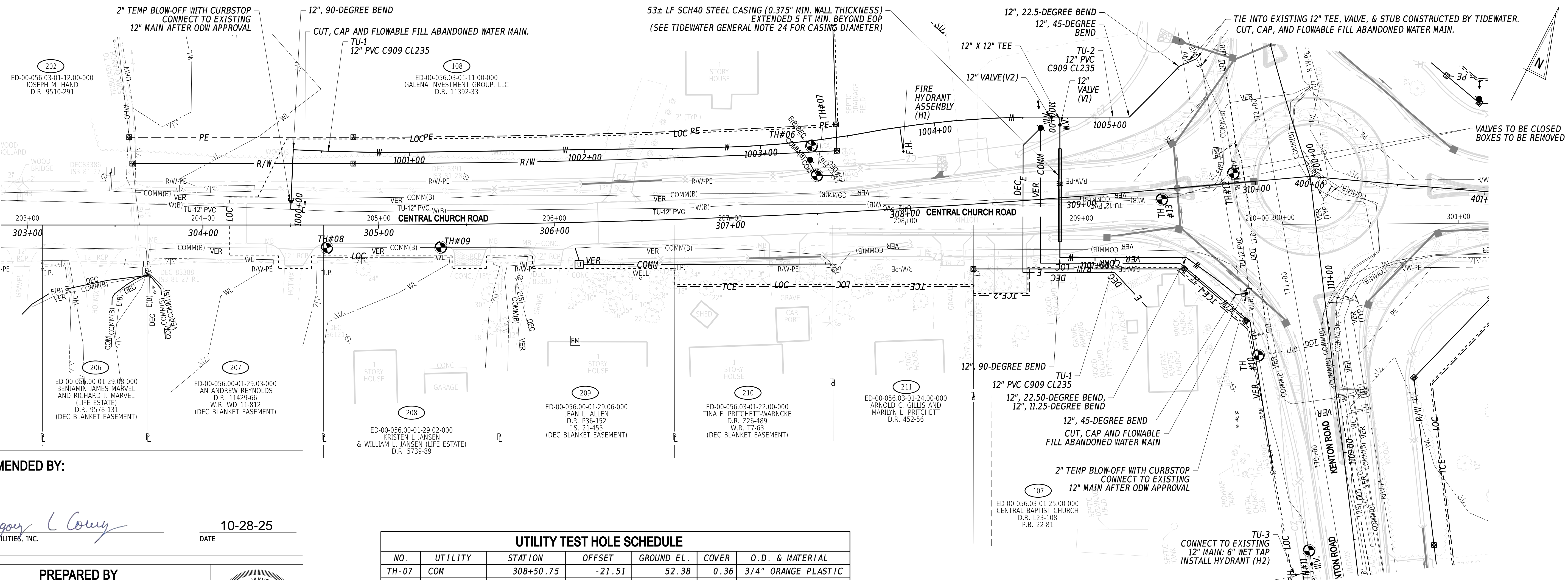


**HEP KC, SR15/KENTON RD. AT  
 CENTRAL CHURCH RD.  
 INTERSECTION IMPROVEMENTS**

CONTRACT T202104204	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: A. HALLER
	CHECKED BY: L. HAXTON

**TIDEWATER  
 WATER RELOCATION  
 HORIZONTAL AND  
 VERTICAL CONTROL**

**TW-03**  
 SECTION  
 CEN  
 SHEET NO.  
 81



**RECOMMENDED BY:**

*Gregory L. Conroy*

TIDEWATER UTILITIES, INC. DATE: 10-28-25

**PREPARED BY**

**CENTURY ENGINEERING**  
A Kleinfelder Company

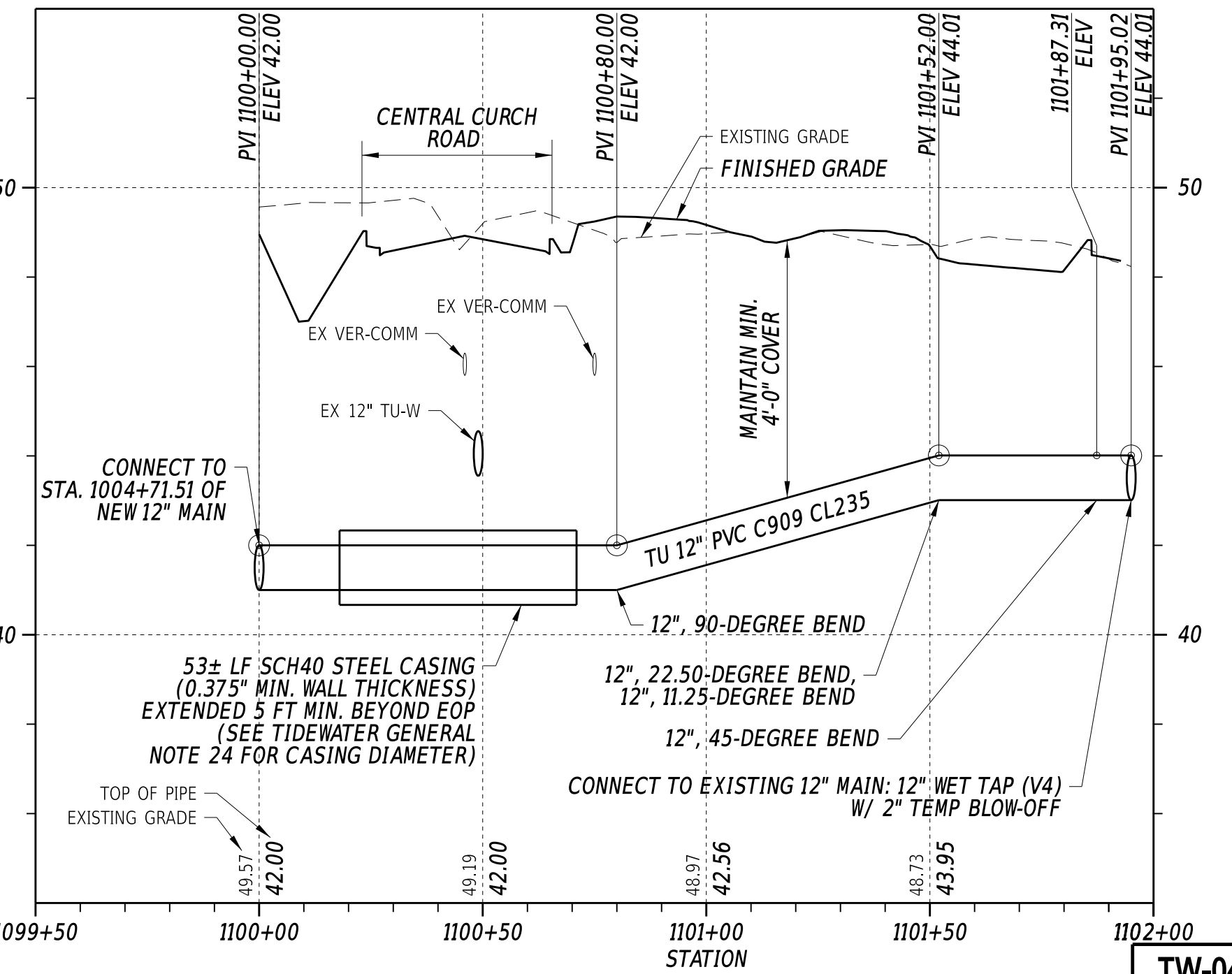
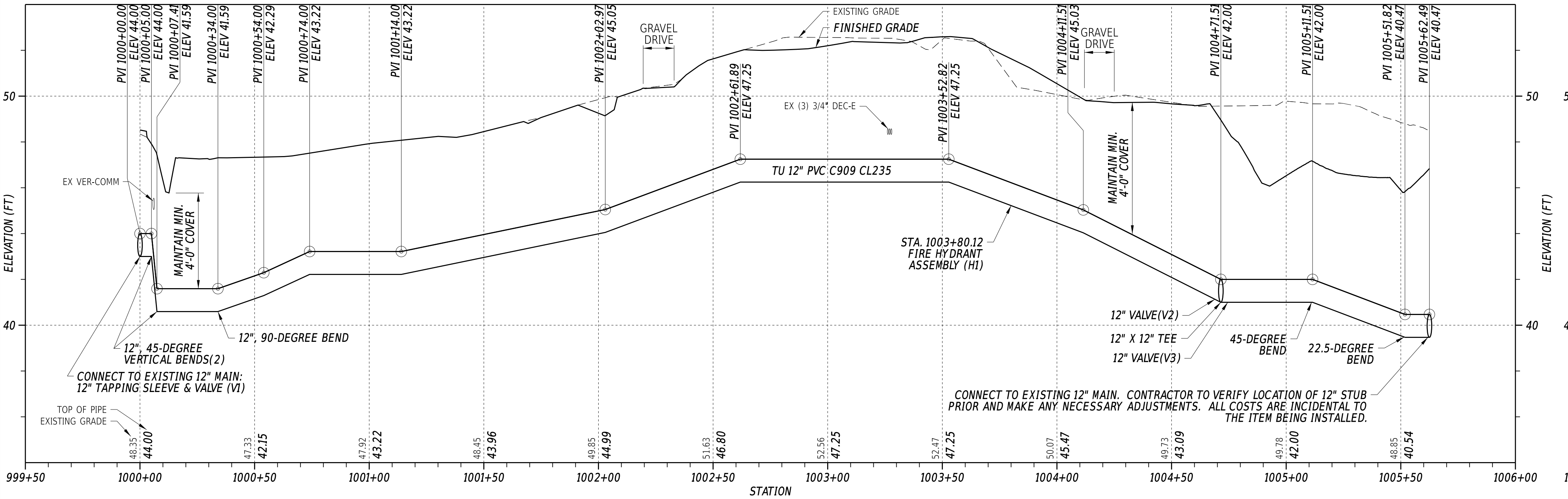
*Andrew Jakubowski*

RECOMMENDED DATE: 10-28-25

SEAL: ANDREW JAKUBOWSKI, P.E., NO. 13906, D.C. ENGINEER

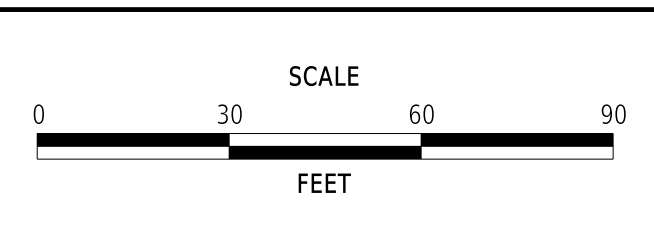
**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL
TH-07	COM	308+50.75	-21.51	52.38	0.36	3/4" ORANGE PLASTIC
TH-10	TU-W	110+60.75	-41.35	48.52	6.70	12" BLUE PLASTIC
TH-11	TU-W	109+46.95	-26.00	48.11	4.60	12" BLUE PLASTIC
TH-12	TU-W	309+87.86	-5.62	48.33	4.36	12" PLASTIC PIPE
TH-13	TU-W	309+46.02	5.72	48.38	4.38	12" BLUE PLASTIC
TH-06	DEC	307+48.58	-38.48	52.31	3.70	(3) 3/4" BLACK
TH-08	VER	304+70.61	12.97	48.02	2.08	1" BLACK
TH-09	VER	305+35.33	12.97	48.01	1.85	1" BLACK



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ADDENDA / REVISIONS

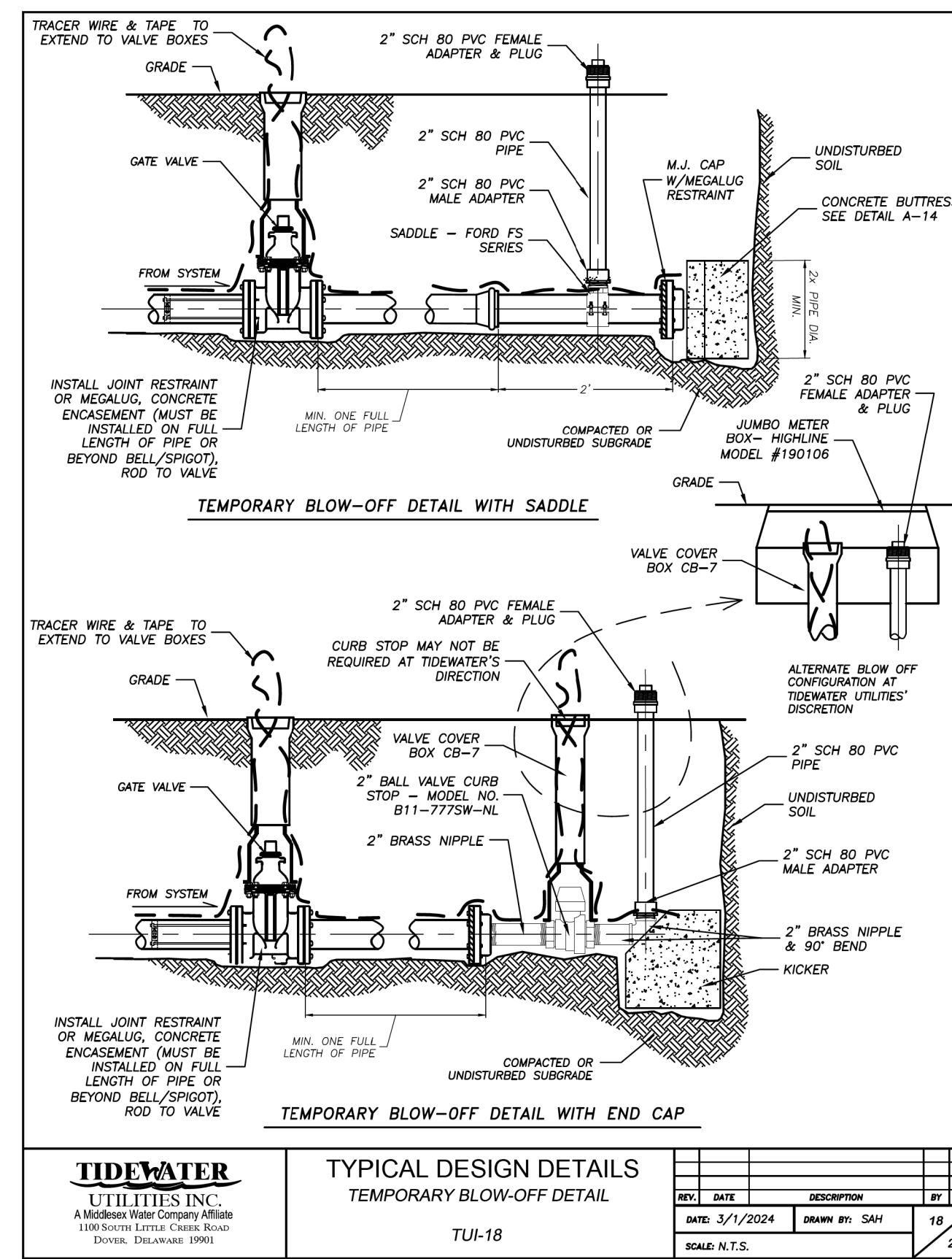
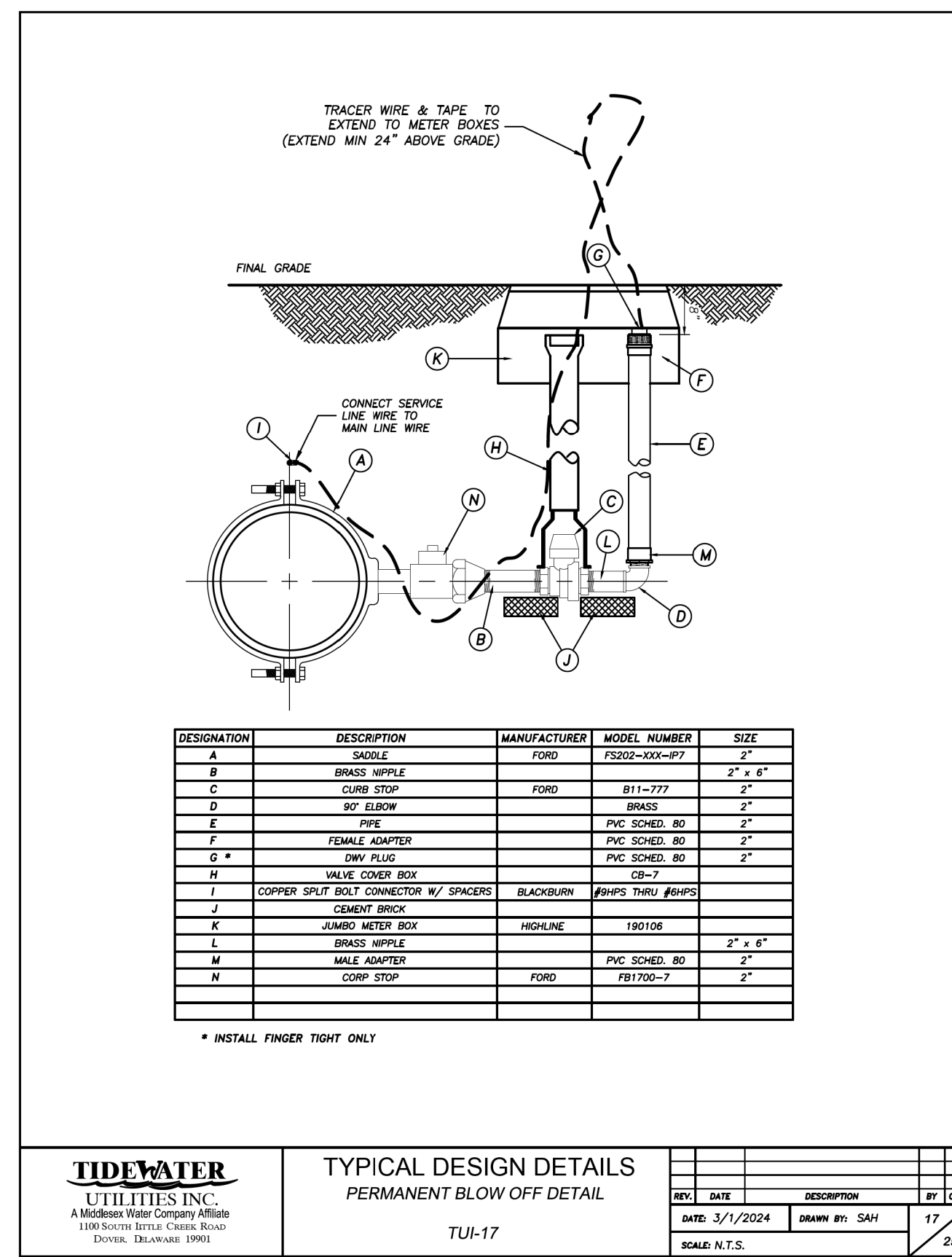
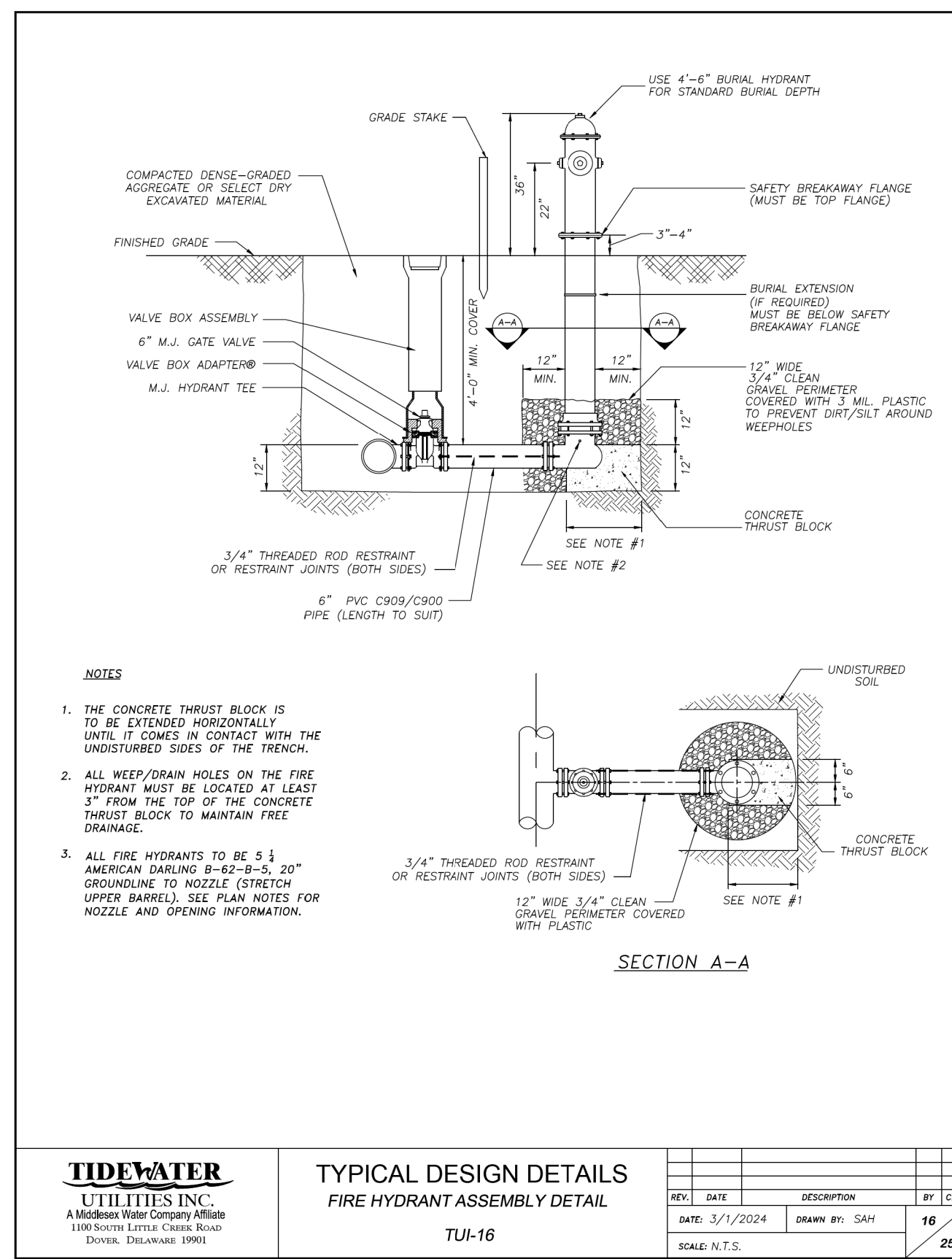
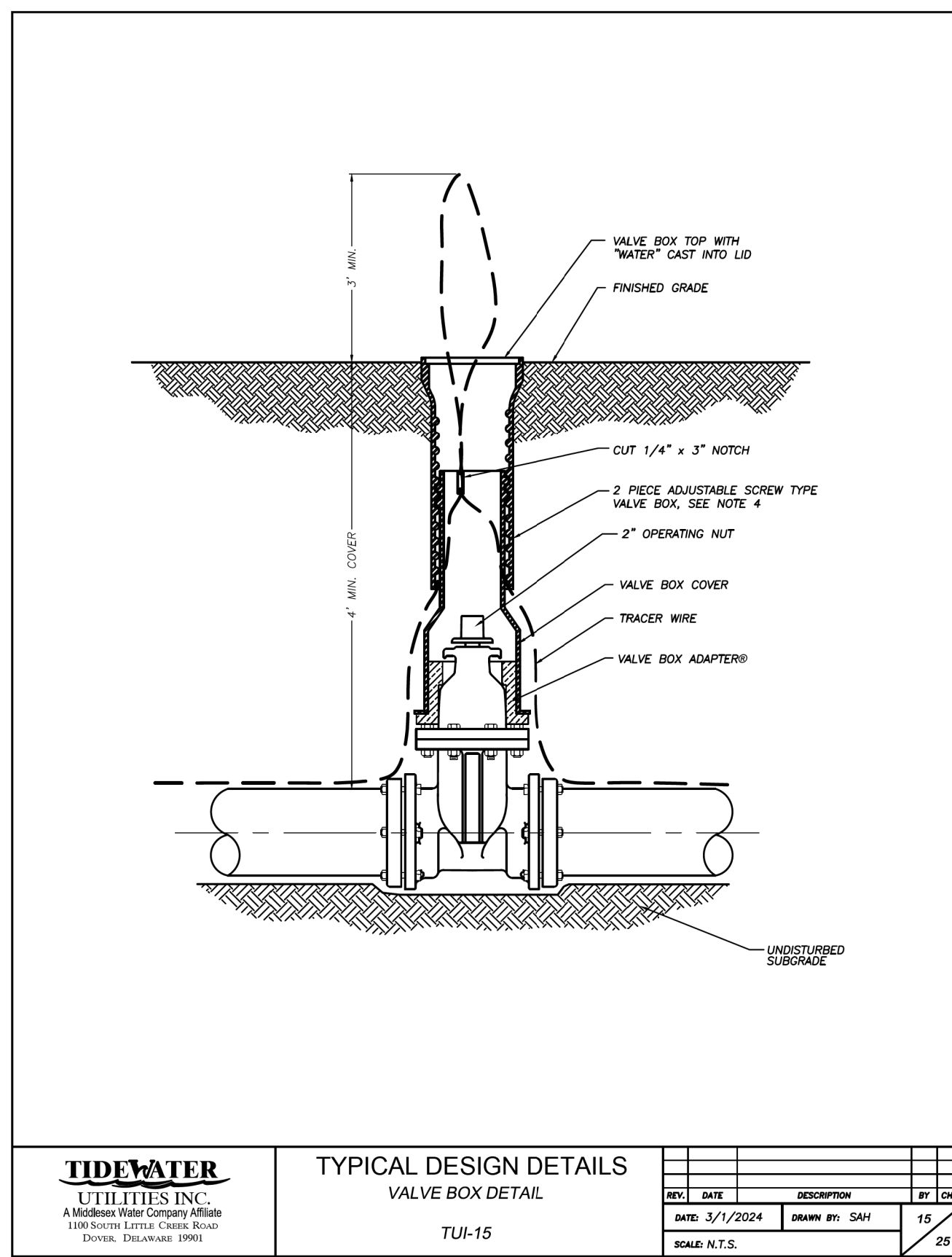
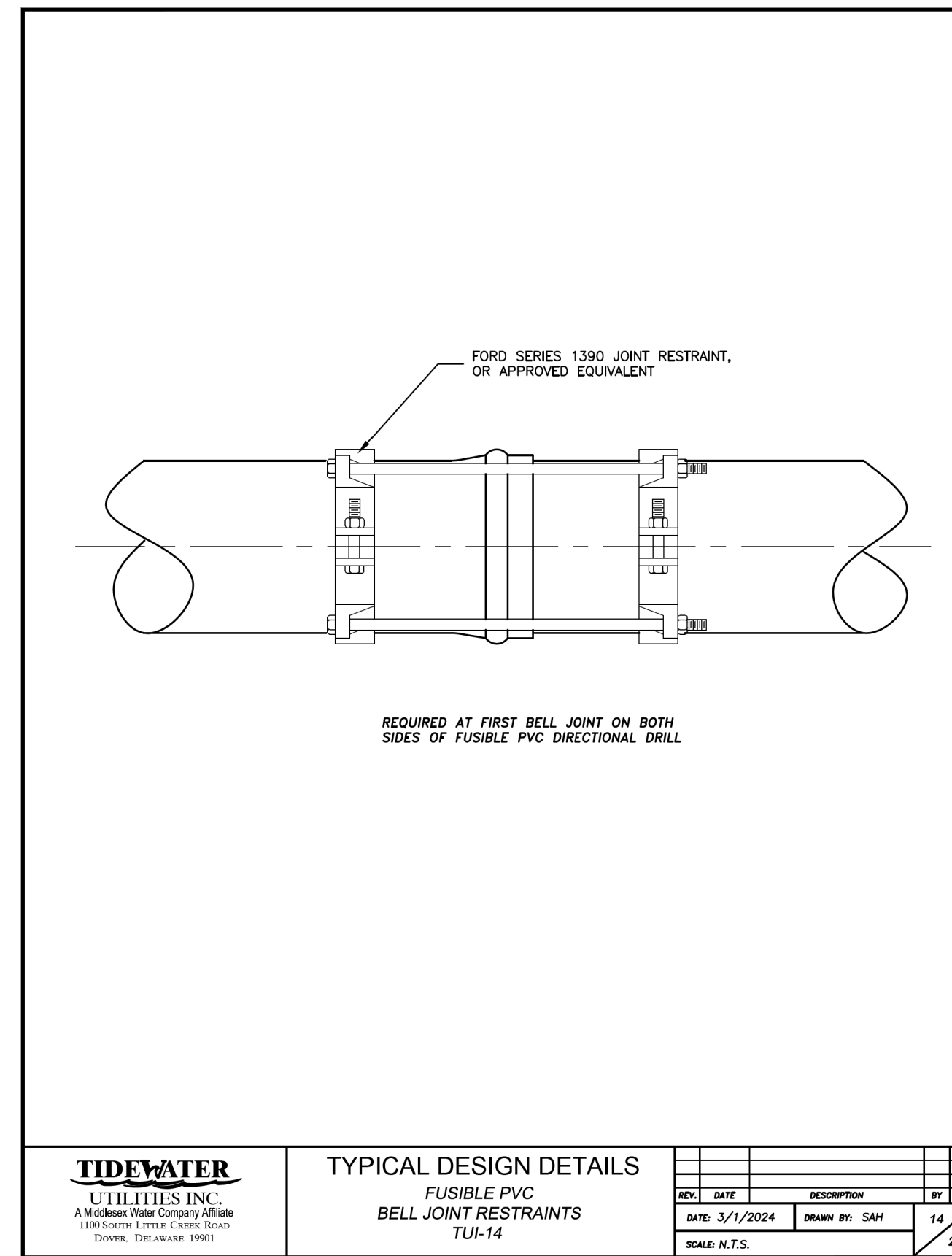
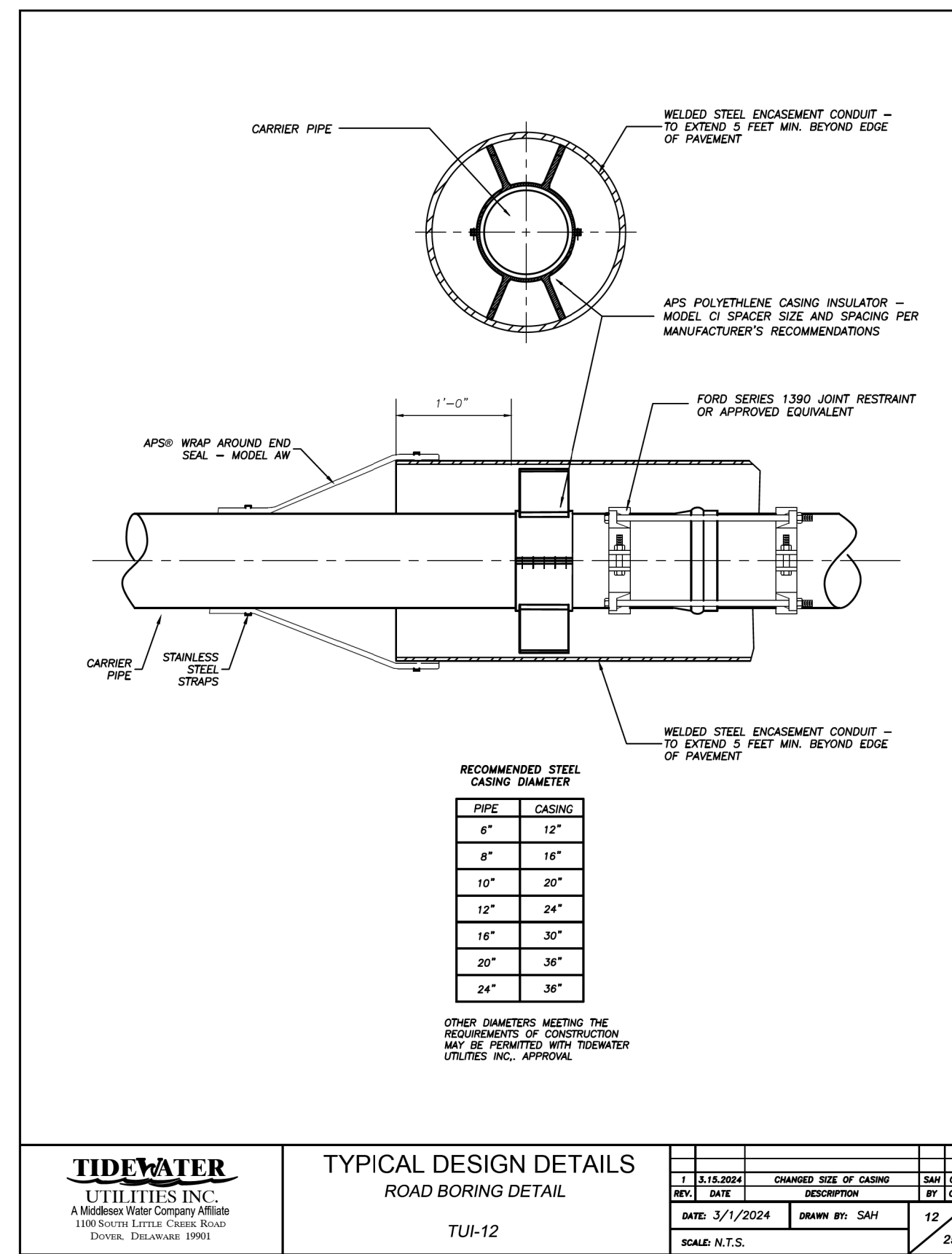
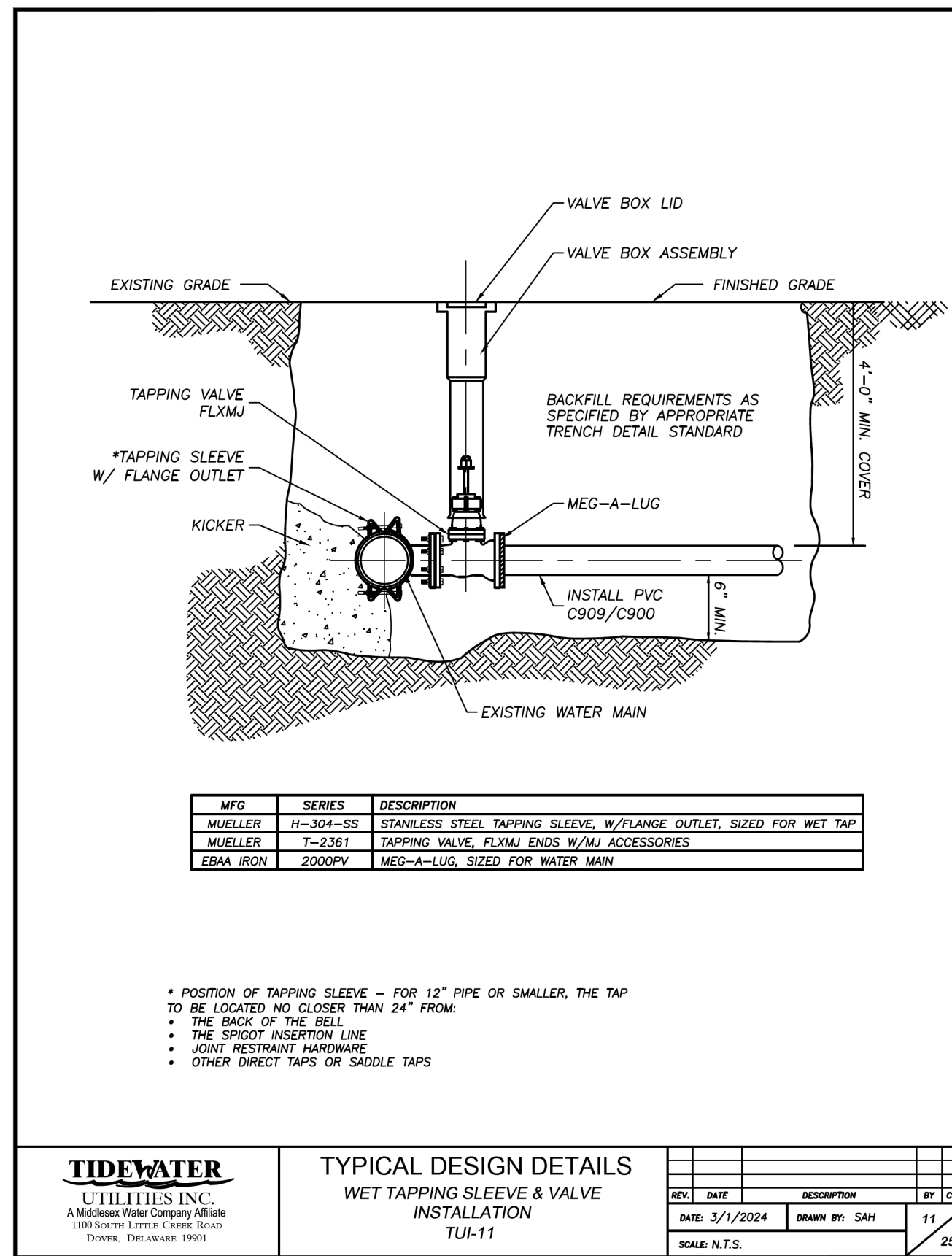
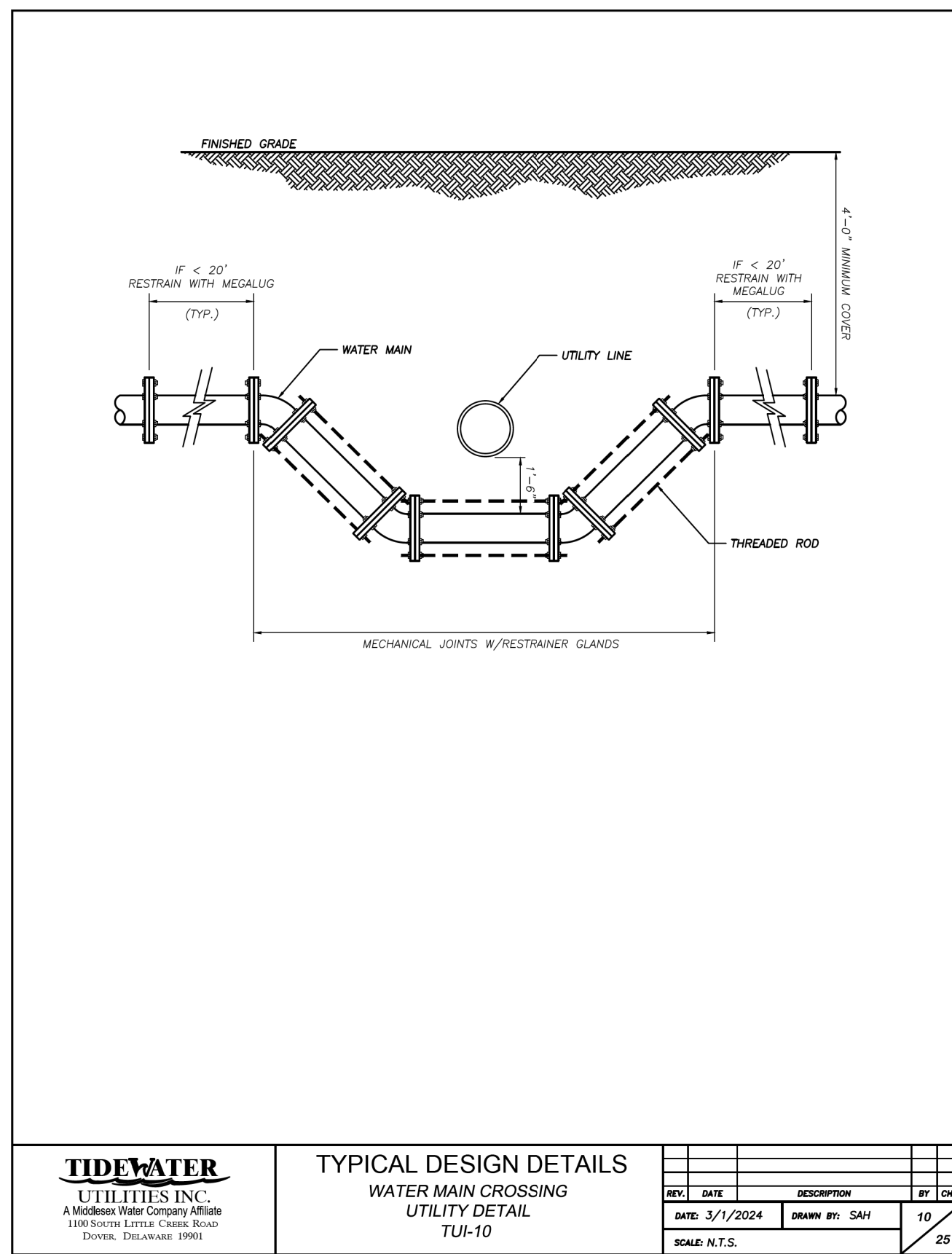


**HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS**

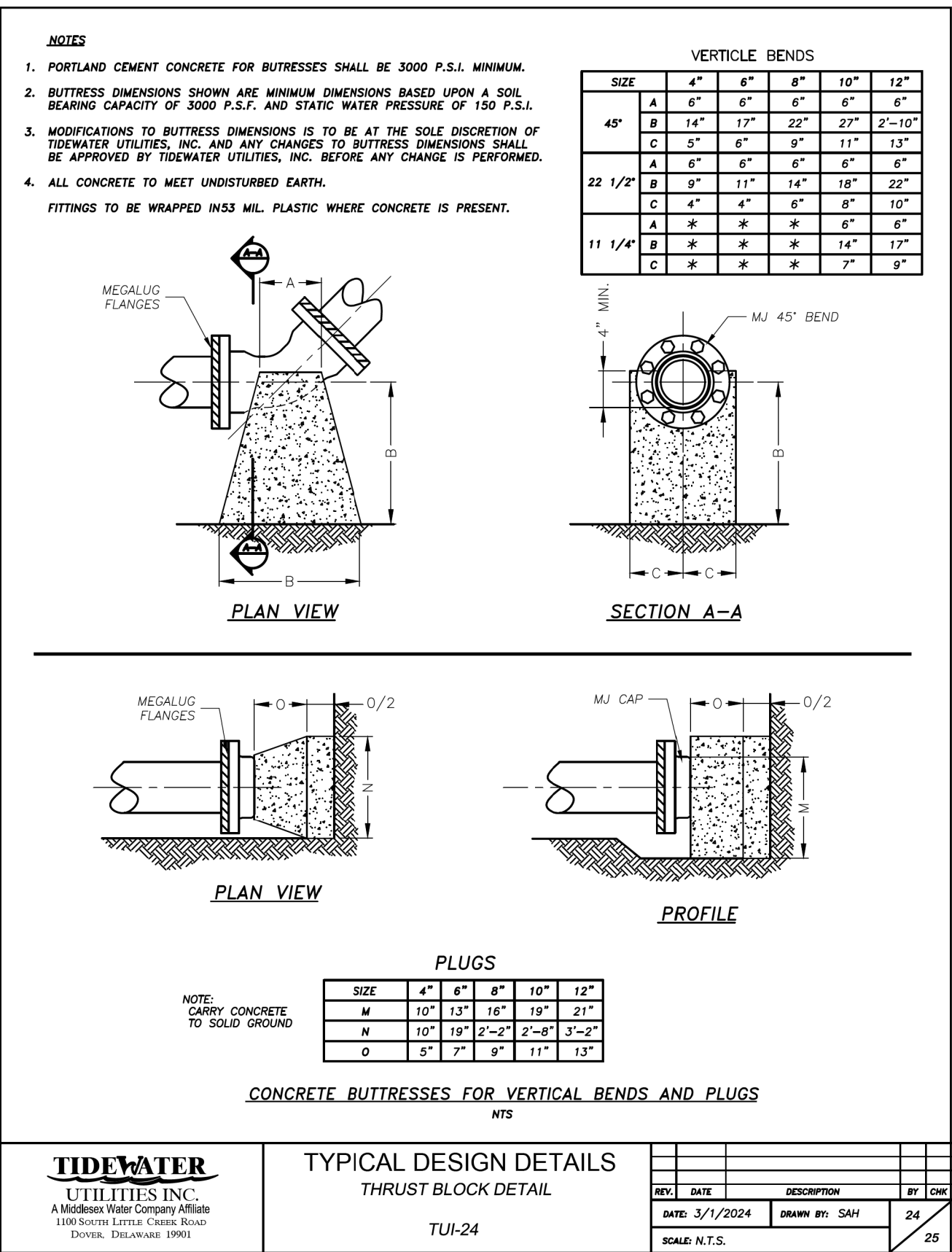
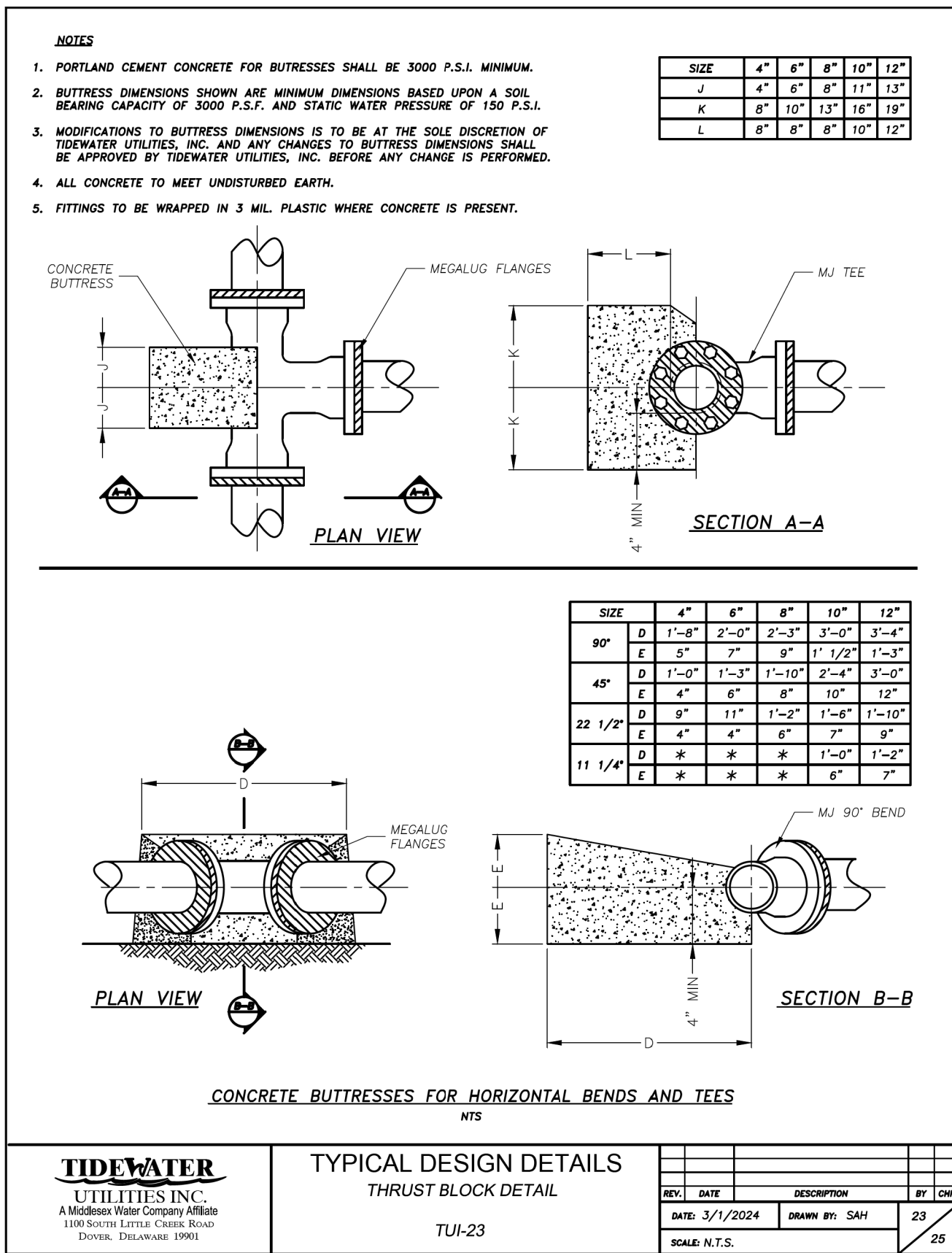
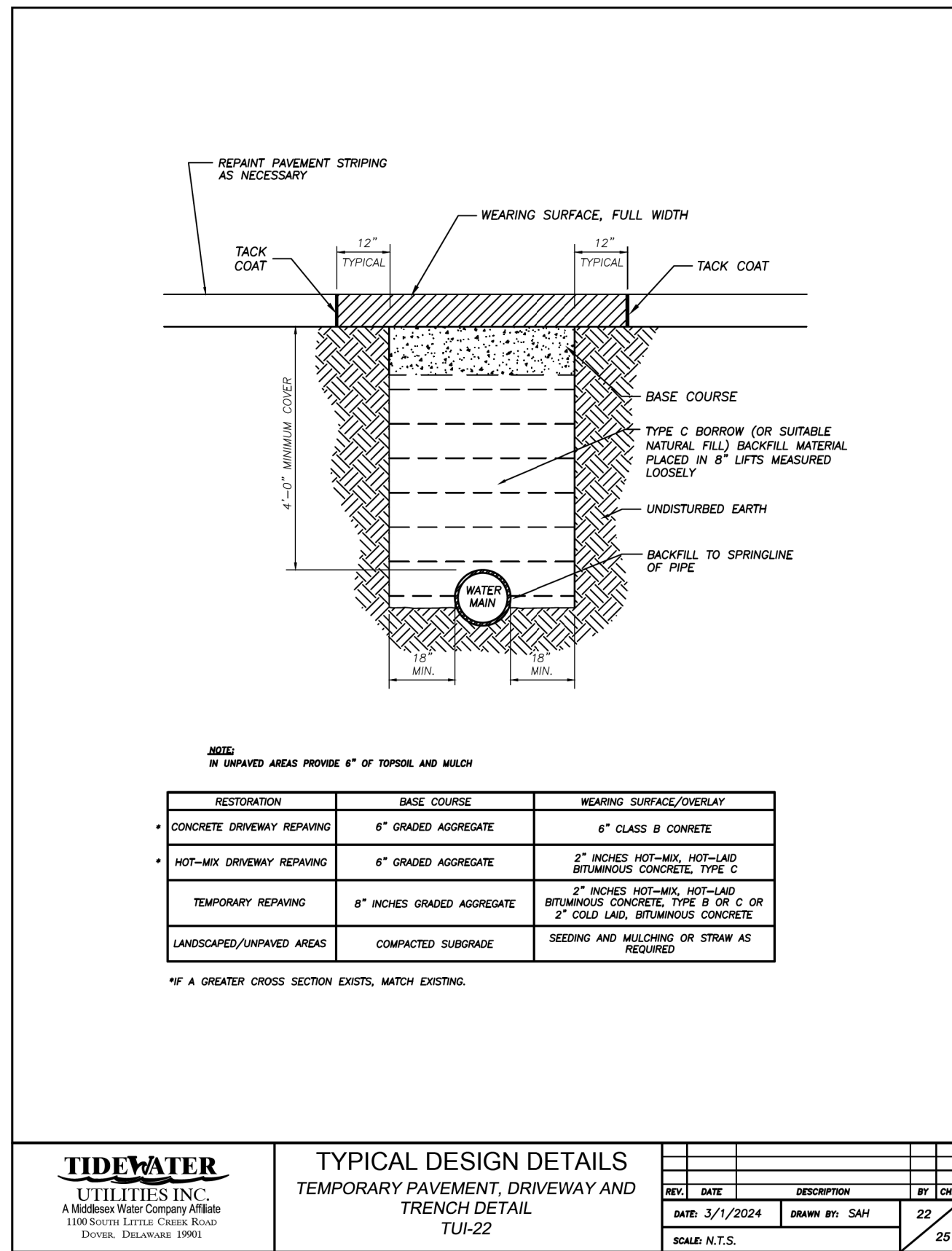
CONTRACT	BRIDGE NO.	N/A
T202104204	DESIGNED BY:	A. HALLER
COUNTY	CHECKED BY:	L. HAXTON
KENT		

**TIDEWATER WATER RELOCATION PLAN**

TW-04 SECTION: CEN SHEET NO.: 82



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ADDENDA / REVISIONS		NOT TO SCALE	HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS		CONTRACT T202104204	BRIDGE NO. N/A	TIDEWATER WATER RELOCATION DETAIL SHEET	TW-06
			DESIGNED BY: A. HALLER	COUNTY KENT	CHECKED BY: L. HAXTON	SECTION CEN		
						SHEET NO. 84		

**GENERAL SEQUENCE OF CONSTRUCTION**

1. BEFORE COMMENCING WORK INVOLVING REMOVING OR PLACING IN OPERATION EXISTING OR NEW FACILITIES OR TIE-INS TO EXISTING FACILITIES, THE CONTRACTOR SHALL NOTIFY TIDEWATER AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE IN WRITING. TIDEWATER SHALL BE RESPONSIBLE FOR REMOVING FACILITIES FROM OPERATION AS DEEMED NECESSARY.
2. WORK UNDER THE CONTRACT SHALL BE SCHEDULED AND PERFORMED IN SUCH A MANNER AS TO RESULT IN THE LEAST POSSIBLE DISRUPTION TO THE PUBLIC'S USE OF ROADWAYS, SIDEWALKS, DRIVEWAYS, PARKING AREAS, AND UTILITIES. UTILITIES SHALL INCLUDE, BUT NOT BE LIMITED TO WATER (POTABLE, RECLAIMED OR RAW) TRANSMISSION AND DISTRIBUTION, SANITARY SEWERAGE COLLECTION AND TRANSMISSION, IRRIGATION, STORM DRAINAGE SEWERAGE AND STRUCTURES, GAS, ELECTRICAL DISTRIBUTION AND TRANSMISSION, CABLE TV, FIBER OPTIC CABLES, DATA/TELEPHONE AND TELECOMMUNICATIONS. PRIOR TO COMMENCING WITH THE WORK, CONTRACTOR SHALL PERFORM A LOCATION INVESTIGATION OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES AND FACILITIES. UTILITIES THAT PRESENT POTENTIAL CONFLICT WITH THE PROPOSED PIPING SHALL BE FIELD VERIFIED WITH UTILITY TEST PITS.
3. THE OUTLINED SEQUENCE OF CONSTRUCTION DOES NOT INCLUDE ALL ITEMS NECESSARY TO COMPLETE THE WORK BUT IS INTENDED TO IDENTIFY THE SEQUENCE OF CRITICAL EVENTS NECESSARY TO MINIMIZE ANY DISRUPTIONS AND TO AVOID ANY IMPACT TO CONTINUED SYSTEM SERVICE. IT SHALL BE UNDERSTOOD BY THE CONTRACTOR THAT THE CRITICAL EVENTS IDENTIFIED ARE NOT ALL INCLUSIVE AND THAT ADDITIONAL ITEMS OF WORK NOT SHOWN MAY BE REQUIRED. THE SEQUENCE OF CONSTRUCTION IS A PRECEDENCE REQUIREMENT AND DOES NOT ATTEMPT TO SCHEDULE THE CONTRACTOR'S WORK. IT IS INTENDED ONLY TO INDICATE WHICH ACTIVITIES MUST PRECEDE OTHER ACTIVITIES IN ORDER TO MINIMIZE INTERFERENCES AND DISRUPTIONS.
4. AT NO TIME WILL THE CONTRACTOR BE ALLOWED TO DEACTIVATE ANY PORTION OF THE EXISTING WATER SYSTEM BY OPERATING SYSTEM VALVES, PLUGGING OR REMOVING ANY PIPELINES, OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF THE EXISTING SYSTEM, EXCEPT WHEN REQUIRED BY THE CONTRACT DOCUMENTS, AND SPECIFICALLY AUTHORIZED BY TIDEWATER AFTER PROPER NOTIFICATION.
5. COMPLETION OF THE WORK IN A GIVEN PHASE COULD OVERLAP WITH COMMENCEMENT OF WORK ON SUBSEQUENT PHASES. HOWEVER, THE WORK ON THE CURRENT SECTION MUST CONTINUE FROM BEGINNING TO END WITHOUT DELAY OR INTERRUPTION.
6. SPECIFIC PHASING SCHEME WILL NOT BE DICTATED BY THE CONTRACT. HOWEVER, PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR SEQUENCING THE PROJECT SECTIONS.
7. CONSTRUCTION CONSTRAINTS: CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CONSTRAINTS DURING CONSTRUCTION AND UTILIZE CONSTRAINTS IN DETERMINING A SEQUENCE OF CONSTRUCTION:
  - A. CONSTRUCTION WORK DURING THE INSTALLATION OF THE PROPOSED WORK SHALL BE LIMITED TO THE PUBLIC RIGHT-OF-WAY. HOMEOWNERS SHALL HAVE ACCESS TO THEIR DRIVEWAYS AND PROPERTIES AT ALL TIMES.
  - B. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED MAINTENANCE OF TRAFFIC PLANS.
  - C. FINAL RESTORATION OF ROADS, DRIVEWAYS, SIDEWALKS AND ALL OTHER PAVED AREAS SHALL BE COMPLETED AS DIRECTED BY DELDOT.
  - D. CONTRACTOR IS EXPECTED TO WORK ON THE WATERLINE DURING THE REGULAR HOURS OF TIDEWATER'S INSPECTORS UNLESS SPECIFIC REQUIREMENTS IN THE CONTRACT DOCUMENTS REQUIRE WORK OUTSIDE OF THOSE HOURS. TIDEWATER INSPECTOR'S REGULAR HOURS ARE 7:00AM TO 4:00PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS. REQUESTS FOR APPROVAL TO WORK DURING OTHER THAN REGULAR HOURS MUST BE SUBMITTED TO DELDOT AT LEAST 72 HOURS IN ADVANCE OF THE PERIOD PROPOSED FOR SUCH OVERTIME WORK AND SHALL SET FORTH THE PROPOSED SCHEDULE FOR OVERTIME.

**OPERATION REQUIREMENTS**

1. MOBILIZATION / SITE PREPARATION: MOBILIZE FOR WORK, VIDEO WORKING AREAS, SET UP STAGING AND STORAGE AREAS, OBTAIN PERMITS, DEVELOP AND SUBMIT CONSTRUCTION SCHEDULE, SUBMIT SHOP DRAWING SCHEDULE, SURVEY, LOCATE EXISTING UTILITIES AND ELEVATIONS WITH TEST PITS, VERIFY EXISTING FITTINGS TO BE CONNECTED, SHOP DRAWING SUBMITTALS, AND PROCURE MATERIALS.
2. CONSTRUCTION OF THE WATER SYSTEM: TASKS CONSIST OF THE INSTALLATION OF PROPOSED IMPROVEMENTS AS DESCRIBED IN THE APPROVED CONSTRUCTION DOCUMENTS.
3. PHASING OF THE WORK IS OF PARTICULAR IMPORTANCE. CONSTRUCTION SHALL BE COMPLETED IN SECTIONS, WITH EACH SECTION OF CONSTRUCTION TO BE COMPLETED BEFORE PERFORMING WORK IN ANOTHER SECTION, INCLUDING BUT NOT LIMITED TO:
  - A. INSTALLATION OF WATER MAINS, HYDRANTS, SERVICES AND APPURTENANCES
  - B. BACKFILL, COMPACTION AND TRENCH RESTORATION
  - C. WATER MAIN TESTING AND DISINFECTION
  - D. WATER MAIN AND FIRE HYDRANTS ACCEPTANCE, PLACING IN SERVICE AND ESTABLISHING ALL SERVICE CONNECTIONS
  - E. REMOVAL AND ABANDONMENT OF EXISTING FACILITIES, AS NEEDED.

**DETAILED SEQUENCE OF CONSTRUCTION**

THE OUTLINED SEQUENCE OF CONSTRUCTION DOES NOT INCLUDE ALL ITEMS NECESSARY TO COMPLETE THE WORK BUT IS INTENDED TO IDENTIFY THE SEQUENCE OF CRITICAL EVENTS NECESSARY TO MINIMIZE ANY DISRUPTIONS AND TO AVOID ANY IMPACT TO CONTINUED SYSTEM SERVICE.

TU-1

1. INSTALL WATER MAIN FROM STATION 1000+00 TO STATION 1004+71.51.
2. INSTALL WATER MAIN FROM STATION 1100+00 TO STATION 1101+95.02.
3. PRESSURE TEST AND BACTERIA TEST THE WATER MAIN.
4. UPON APPROVAL BY ODW, REMOVE TEMPORARY BLOW-OFFS AND COMPLETE CONNECTION TO EXISTING MAIN USING NECESSARY FITTINGS.

TU-2

1. INSTALL WATER MAIN FROM STATION 1004+71.51 TO STATION 1005+62.49.
2. CONNECT TO EXISTING STUB AT STATION 1005+62.49. DO NOT OPEN VALVE.
3. UPON APPROVAL BY ODW, REMOVE TEMPORARY BLOW-OFF AND COMPLETE CONNECTION TO THE EXISTING MAIN USING NECESSARY FITTINGS AND OPEN VALVE AT STATION 1005+62.49.

TU-3

1. INSTALL TAPPING SLEEVE AND VALVE.
2. INSTALL HYDRANT ASSEMBLY.
3. BLOW OFF HYDRANT FOR 30 SECONDS OR UNTIL WATER IS CLEAR.

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	ADDENDA / REVISIONS		NOT TO SCALE	<b>HEP KC, SR15/KENTON RD. AT CENTRAL CHURCH RD. INTERSECTION IMPROVEMENTS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">CONTRACT</td> <td style="font-size: 8px;">BRIDGE NO.</td> <td style="text-align: center; font-weight: bold;">N/A</td> </tr> <tr> <td style="font-size: 8px;">T202104204</td> <td style="font-size: 8px;">DESIGNED BY:</td> <td style="font-size: 8px;">A. HALLER</td> </tr> <tr> <td style="font-size: 8px;">COUNTY</td> <td style="font-size: 8px;">CHECKED BY:</td> <td style="font-size: 8px;">L. HAXTON</td> </tr> <tr> <td style="font-size: 8px;">KENT</td> <td></td> <td></td> </tr> </table>	CONTRACT	BRIDGE NO.	N/A	T202104204	DESIGNED BY:	A. HALLER	COUNTY	CHECKED BY:	L. HAXTON	KENT			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>TW-07</b></td> </tr> <tr> <td style="font-size: 8px;">SECTION</td> </tr> <tr> <td style="text-align: center;">CEN</td> </tr> <tr> <td style="font-size: 8px;">SHEET NO.</td> </tr> <tr> <td style="text-align: center;">85</td> </tr> </table>	<b>TW-07</b>	SECTION	CEN	SHEET NO.	85
CONTRACT	BRIDGE NO.	N/A																					
T202104204	DESIGNED BY:	A. HALLER																					
COUNTY	CHECKED BY:	L. HAXTON																					
KENT																							
<b>TW-07</b>																							
SECTION																							
CEN																							
SHEET NO.																							
85																							
				<b>TIDEWATER WATER RELOCATION SEQUENCE OF CONSTRUCTION</b>																			