



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

September 19, 2017

CALL NO. 301
CONTRACT ID NO. 171239
ADDENDUM # 1

Subject: Menifee County, FD04 SPP 083 0036 002-005
Letting September 29, 2017

- (1) Revised - Plans - R2D, R5, R9, R23, R44, & R45
- (2) Revised - Bid Items - Pages 74-75 of 75

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

FILE NAME: C:\PWORK\DARREN\BACK\DJ292529\RO0200SU.DGN

USER: darren.back
DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO0200SU

MicroStation v8.11.9.832

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R2d

SHEET NO.		SKEW	COVER HEIGHT	DESIGN PH LEVEL	ENTRANCE PIPE	CULVERT PIPE						24" S & F BOX INLET-OUTLET	30" S & F BOX INLET-OUTLET	36" S & F BOX INLET-OUTLET (MODIFIED)	PIPE CULVERT HEADWALL - 24 IN	PIPE CULVERT HEADWALL - 30 IN	PIPE CULVERT HDWL - 30 IN EQUIV	PIPE CULVERT HEADWALL - 42 IN	PIPE CULVERT HDWL - 48 IN EQUIV	PIPE CULVERT HEADWALL - 60 IN		PIPELINE INSPECTION	CHANNEL LINING CLASS I A	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	DITCH EXCAVATION	CONCRETE CLASS "A"	FLOWABLE FILL	REMARKS	
					15"	24"	30"	30" EQUIV.	42"	48" EQUIV.	60"																			ALUMINUM ALLOY STRUCT PLATE PIPE ARCH (7'-3"x5'-11") (A)
ITEM CODE					440	464	466	494	469	499	472	22533EN	1451	1452	1453	1208	1210	1211	1214	1217	1220		24814EC	2482	2483	2484	20597EC	8100	2220	
UNIT TO BID					LINEAR FEET	LINEAR FEET					LINEAR FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		LIN FT	TONS	TONS	TONS	CU YD	CU YD	CU YD		
KY 36 - SECTION A																														
R5	19+42.00		1.0	M	36																									
R5	20+41.00	18°52'13" RT.	12.6	M					135								2					67.5			100					
R5	24+80.00		3.8	M		61									2							30.5		117		124		2		
R5	28+14.60	2°49'44" LT.	1.0	M		39						1										19.5			33		1.99	2	(1) 24" STD. HEADWALL	
R5	32+51.77	25°20'41" RT.	0.5	M						54								2				22			38			8		
KY 36 - SECTION G																														
R7	110+63.80	51°59'54" LT.	1.0	M				91						1			1					45.5			54	45		7		
R7	115+70.80	4°18'25" LT.	1.9	M			56						1			1						28			13			3		
STONEQUARRY ROAD																														
R5	51+78.11	5°35'00" LT.	7.0	M								56 (A)											10							
SUITER ROAD																														
R7	50+63.64	25°01'37" LT.	2.0	M							69									2		34.5			166	40		6		

Ⓐ THIS BID ITEM INCLUDES, BUT IS NOT LIMITED TO, FLOWABLE FILL, BEDDING, AND ALL ITEMS NECESSARY FOR THE CONSTRUCTION OF THE ALUMINUM ALLOY STRUCTURAL PLATE PIPE-ARCH. THE FOLLOWING ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE STRUCTURE: STRUCTURE EXCAVATION, BACKFILL, AND ALL ITEMS NECESSARY TO CONSTRUCT CONCRETE HEADWALLS/WINGWALLS. HEADWALLS/WINGWALLS DEPICTED IN THIS PLAN SET ARE INFORMATIONAL ONLY. DRAWINGS SHOULD BE SUBMITTED TO AND APPROVED BY THE PROJECT ENGINEER. ALSO INCLUDED IN THIS BID ITEM ARE ALL WORK AND MATERIALS REQUIRED TO OBTAIN A MINIMUM BEARING CAPACITY OF 4,000 PSF BELOW THE STRUCTURE.

FILE NAME: C:\PIWORK\DARREN\BACK\DJ292529\RO02005U.DGN

USER: darren.back
DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO02005U

MicroStation v8.11.9.832

PIPE DRAINAGE SUMMARY

REVISED 09/18/2017

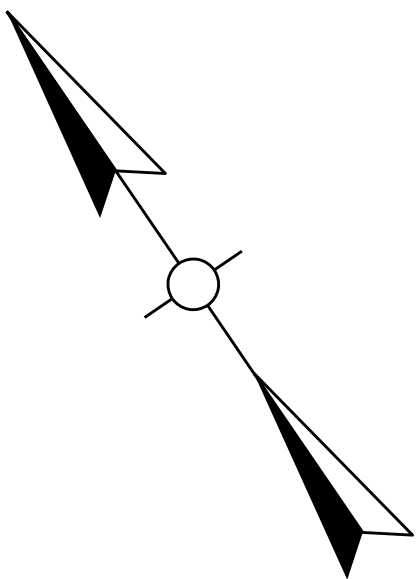
COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R2d

SHEET NO.		SKEW	COVER HEIGHT	DESIGN pH LEVEL	ENTRANCE PIPE	CULVERT PIPE							24" S & F BOX INLET-OUTLET	30" S & F BOX INLET-OUTLET	36" S & F BOX INLET-OUTLET (MODIFIED)	PIPE CULVERT HEADWALL - 24 IN	PIPE CULVERT HEADWALL - 30 IN	PIPE CULVERT HDWL - 30 IN EQUIV	PIPE CULVERT HEADWALL - 42 IN	PIPE CULVERT HDWL - 48 IN EQUIV	PIPE CULVERT HEADWALL - 60 IN		PIPELINE INSPECTION	CHANNEL LINING CLASS I A	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	DITCH EXCAVATION	CONCRETE CLASS "A"	FLOWABLE FILL	REMARKS
					15"	24"	30"	30" EQUIV.	42"	48" EQUIV.	60"	ALUMINUM ALLOY STRUCT PLATE PIPE ARCH (7'-3"x5'-11") (A)																		
ITEM CODE					440	464	466	494	469	499	472	22533EN	1451	1452	1453	1208	1210	1211	1214	1217	1220		24814EC	2482	2483	2484	20597EC	8100	2220	
UNIT TO BID					LINEAR FEET	LINEAR FEET					LINEAR FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		LIN FT	TONS	TONS	TONS	CU YD	CU YD	CU YD		
KY 36 - SECTION A																														
R5	19+42.00		1.0	M	36																									
R5	20+41.00	18°52'13" RT.	12.6	M					135									2				67.5			100					
R5	24+80.00		3.8	M		61									2						30.5		117		124		2			
R5	28+14.60	2°49'44" LT.	1.0	M		39						1									19.5			33		1.99	2		(1) 24" STD. HEADWALL	
R5	32+51.77	25°20'41" RT.	0.5	M						54								2			22			38			8			
KY 36 - SECTION G																														
R7	110+63.80	51°59'54" LT.	1.0	M				91						1			1				45.5			54	45		7			
R7	115+70.80	4°18'25" LT.	1.9	M			56						1			1					28			13			3			
STONEQUARRY ROAD																														
R5	51+78.11	5°35'00" LT.	7.0	M								56 (A)											10							
SUITER ROAD																														
R7	50+63.64	25°01'37" LT.	2.0	M							69									2		34.5			166	40		6		

(A) THIS BID ITEM INCLUDES, BUT IS NOT LIMITED TO, FLOWABLE FILL, BEDDING, AND ALL ITEMS NECESSARY FOR THE CONSTRUCTION OF THE ALUMINUM ALLOY STRUCTURAL PLATE PIPE-ARCH. THE FOLLOWING ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE STRUCTURE: STRUCTURE EXCAVATION, BACKFILL, AND ALL ITEMS NECESSARY TO CONSTRUCT CONCRETE HEADWALLS/WINGWALLS. HEADWALLS/WINGWALLS DEPICTED IN THIS PLAN SET ARE INFORMATIONAL ONLY. DRAWINGS SHOULD BE SUBMITTED TO AND APPROVED BY THE PROJECT ENGINEER. ALSO INCLUDED IN THIS BID ITEM ARE ALL WORK AND MATERIALS REQUIRED TO OBTAIN A MINIMUM BEARING CAPACITY OF 4,000 PSF BELOW THE STRUCTURE.

COUNTY OF	ITEM NO.	SHEET NO.
MENEFEE	10-8001.10	R5

R/W REV. NO. 2, MARCH 13, 2013



DITCH CONSTRUCTION		
STATION TO STATION	TYPE OF DITCH	CHANNEL LINING CONSTRUCTION NOTES
LT. 20+00 TO 20+50	4' F.B. SPEC.	90 SY TRM
LT. 20+50 TO 21+00	SPEC. "V"	68 SY TRM
LT. 21+00 TO 24+50	10' F.B.	•
LT. 24+50 TO 26+00	10' F.B. SPEC.	•
LT. 26+00 TO 31+50	10' F.B.	•
LT. 31+50 TO 32+00	10' F.B. SPEC.	124 SY ECB
LT. 32+00 TO 32+50	SPEC. "V"	69 SY ECB

•CONSTRUCTED IN ROCK ECB - EROSION CONTROL BLANKET TRM - TURF REINFORCEMENT MAT I

PROP. KY 36
P.I. Sta. 23+38.45
D = 42°15'54" (LT)
T = 347.87'
L = 663.90'
R = 900.00'
E = 64.89'
e = 6.23%

P
4
James Hall
Lowell Keaton
DB.91 Pg.498

PROP. KY 36
P.I. Sta. 29+20.36
D = 22°16'59" (LT)
T = 265.88'
L = 525.03'
R = 1,350.00'
E = 25.93'
e = 4.90%

P
8
Paul J.Cassidy
James H.Cassidy
DB.58 Pg.501

Harry Wright
DB.70 Pg.288

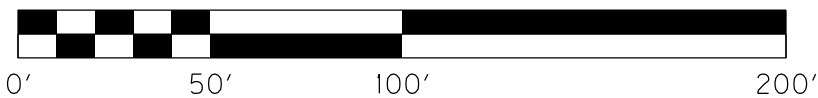
STA. 32+65
END PVMT.

P
9
Mark Sands
DB.91 Pg.331

PROP. KY 36
P.I. Sta. 37+32.83
D = 26°25'01" (LT)
T = 469.41'
L = 922.12'
R = 2,000.00'
E = 54.35'
e = 3.63%

CONTROL POINT
MONUMENT - KY36109
18.69' RT. STA. 33+52.81
ELEV. 840.80

KY 36 STA. 20+00 TO STA. 32+82
STONEQUARRY ROAD
STA. 50+00 TO STA. 52+23



ENTRANCES - KY 36		
STATION	WIDTH	ENTRANCE PAVEMENT
Rt. 27+59	18'	69 S.Y. - ASPHALT
Rt. 30+88	12'	60 S.Y. - ASPHALT

Rt. Sta. 30+96 to Sta. 32+82
Const. 187.5 L.F. Steel "W" Beam Guardrail (SF)
w/ 2 - Terminal Section No. 1

Rt. Sta. 27+73 to Sta. 30+80
Const. 325 L.F. Steel "W" Beam Guardrail (SF)
w/ 2 - Terminal Section No. 1

Sta. 32+65 Const. 23' Edge Key

CONTROL POINT
MONUMENT - KY36109
121.74' RT. STA. 24+69.21
ELEV. 819.54

Stonequarry Road Rt. Sta. 51+35 to Sta. 52+13
Const. 100 L.F. Steel "W" Beam Guardrail (SF)
w/ 2 - Terminal Section No. 1

Stonequarry Road Lt. Sta. 51+18 to Sta. 52+23
Const. 50 L.F. Steel "W" Beam Guardrail (SF)
w/ 1 - Guardrail End Treatment Type 7 &
1 - Terminal Section No. 1

Sta. 51+95 Const. 18' Edge Key

ENTRANCES - STONEQUARRY ROAD		
STATION	WIDTH	ENTRANCE PAVEMENT
Rt. 51+25	11'	145 S.Y. - ASPHALT

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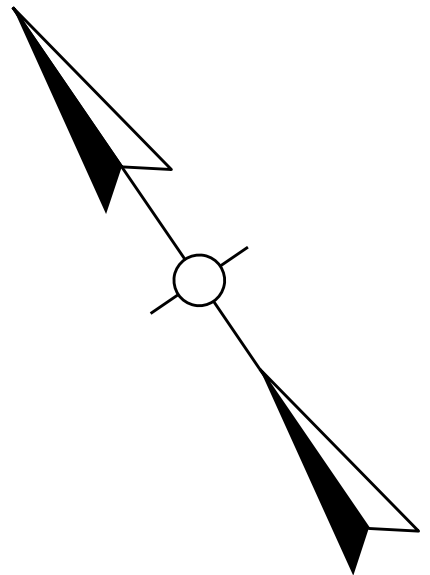
USER: darren.back
DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO0500PL

MicroStation v8.11.9.714

COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R5

R/W REV. NO. 2, MARCH 13, 2013
 REVISED 09/18/2017



DITCH CONSTRUCTION		
STATION TO STATION	TYPE OF DITCH	CHANNEL LINING CONSTRUCTION NOTES
LT. 20+00 TO 20+50	4' F.B. SPEC.	90 SY TRM
LT. 20+50 TO 21+00	SPEC. "V"	68 SY TRM
LT. 21+00 TO 24+50	10' F.B.	•
LT. 24+50 TO 26+00	10' F.B. SPEC.	•
LT. 26+00 TO 31+50	10' F.B.	•
LT. 31+50 TO 32+00	10' F.B. SPEC.	124 SY ECB
LT. 32+00 TO 32+50	SPEC. "V"	69 SY ECB
• CONSTRUCTED IN ROCK ECB - EROSION CONTROL BLANKET TRM - TURF REINFORCEMENT MAT I		

PROP. KY 36
 P.I. Sta. 23+38.45
 D = 42°15'54" (LT)
 T = 347.87'
 L = 663.90'
 R = 900.00'
 E = 64.89'
 e = 6.23%

P
4
 James Hall
 Lowell Keaton
 DB.91 Pg.498

PROP. KY 36
 P.I. Sta. 29+20.36
 D = 22°16'59" (LT)
 T = 265.88'
 L = 525.03'
 R = 1,350.00'
 E = 25.93'
 e = 4.90%

P
8
 Paul J.Cassidy
 James H.Cassidy
 DB.58 Pg.501

Harry Wright
 DB.70 Pg.288

STA. 32+65
 END PVMT.

P
9
 Mark Sands
 DB.91 Pg.331

END CONSTRUCTION
 STA. 32+82

PROP. KY 36
 P.I. Sta. 37+32.83
 D = 26°25'01" (LT)
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 L = 922.12'
 R = 2,000.00'
 E = 54.35'
 e = 3.63%

P
7
 Ronald Mullins
 DB.71 Pg.630

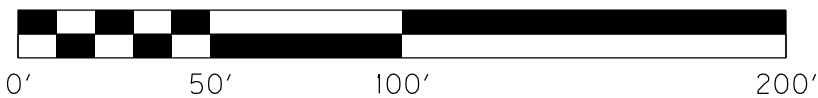
PROP. STONEQUARRY ROAD
 P.I. Sta. 51+05.91
 D = 31°26'11" (LT.)
 T = 56.29'
 L = 109.73'
 R = 200.00'
 E = 7.77'
 e = NC

FOR ADDITIONAL R/W
 INFORMATION SEE
 SHEET R12

ENTRANCES - KY 36		
STATION	WIDTH	ENTRANCE PAVEMENT
Rt. 27+59	18'	69 S.Y. - ASPHALT
Rt. 30+88	12'	60 S.Y. - ASPHALT

CONTROL POINT
 MONUMENT - KY36109
 18.69' RT. STA. 33+52.81
 ELEV. 840.80

KY 36 STA. 20+00 TO STA. 32+82
 STONEQUARRY ROAD
 STA. 50+00 TO STA. 52+23



Mary J.Couch (1/2 Interest)
 Dora M.Turner (1/4 Interest)
 Shanda M.Cobbs (1/4 Interest)
 DB.42 Pg.669
 DB.87 Pg.799

KY 36 STA. 24+19.36 =
 STONEQUARRY ROAD STA. 50+00.00

P
3
 Rita Thomas
 Dennis Thomas
 DB.59 Pg.734
 DB.60 Pg.239

Noah Triplett
 DB.27 Pg.402
 Amy Reffitt (Single)
 Anthony Allen Smith
 DB.97 Pg.337

P
6
 Susan Lacy
 DB.98 Pg.256

NOTE: Any Fence That Is
 Disturbed On Parcel 3 Shall
 Be Replaced Immediately.

NOTE: For Stonequarry Rd.
 Culvert Details, See R44-R45

END CONSTRUCTION
 STA. 52+23

Stonequarry Road Rt. Sta. 51+35 to Sta. 52+13
 Const. 100 L.F. Steel "W" Beam Guardrail (SF)
 w/ 2 - Terminal Section No. 1

Stonequarry Road Lt. Sta. 51+18 to Sta. 52+23
 Const. 50 L.F. Steel "W" Beam Guardrail (SF)
 w/ 1 - Guardrail End Treatment Type 7 &
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CONTROL POINT
 MONUMENT - KY36109
 121.74' RT. STA. 24+69.21
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Rt. Sta. 30+96 to Sta. 32+82
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Rt. Sta. 27+73 to Sta. 30+80
 Const. 325 L.F. Steel "W" Beam Guardrail (SF)
 w/ 2 - Terminal Section No. 1

Sta. 32+65 Const. 23' Edge Key

Sta. 51+95 Const. 18' Edge Key

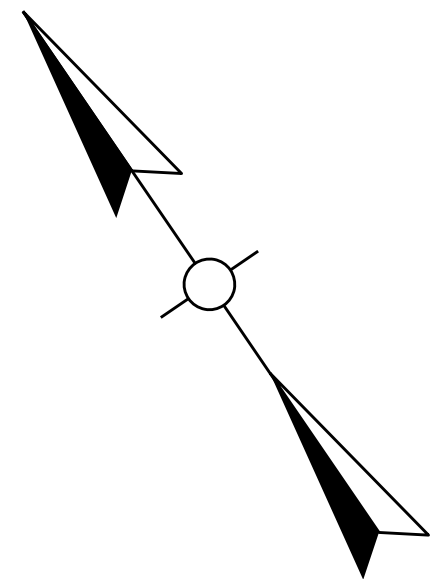
ENTRANCES - STONEQUARRY ROAD		
STATION	WIDTH	ENTRANCE PAVEMENT
Rt. 51+25	11'	145 S.Y. - ASPHALT

FILE NAME: G:\PWORK\DARREN\BACK\121252529\RO0500PL.DGN

USER: darren.back
 DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO0500PL

MicroStation v8.11.9.714

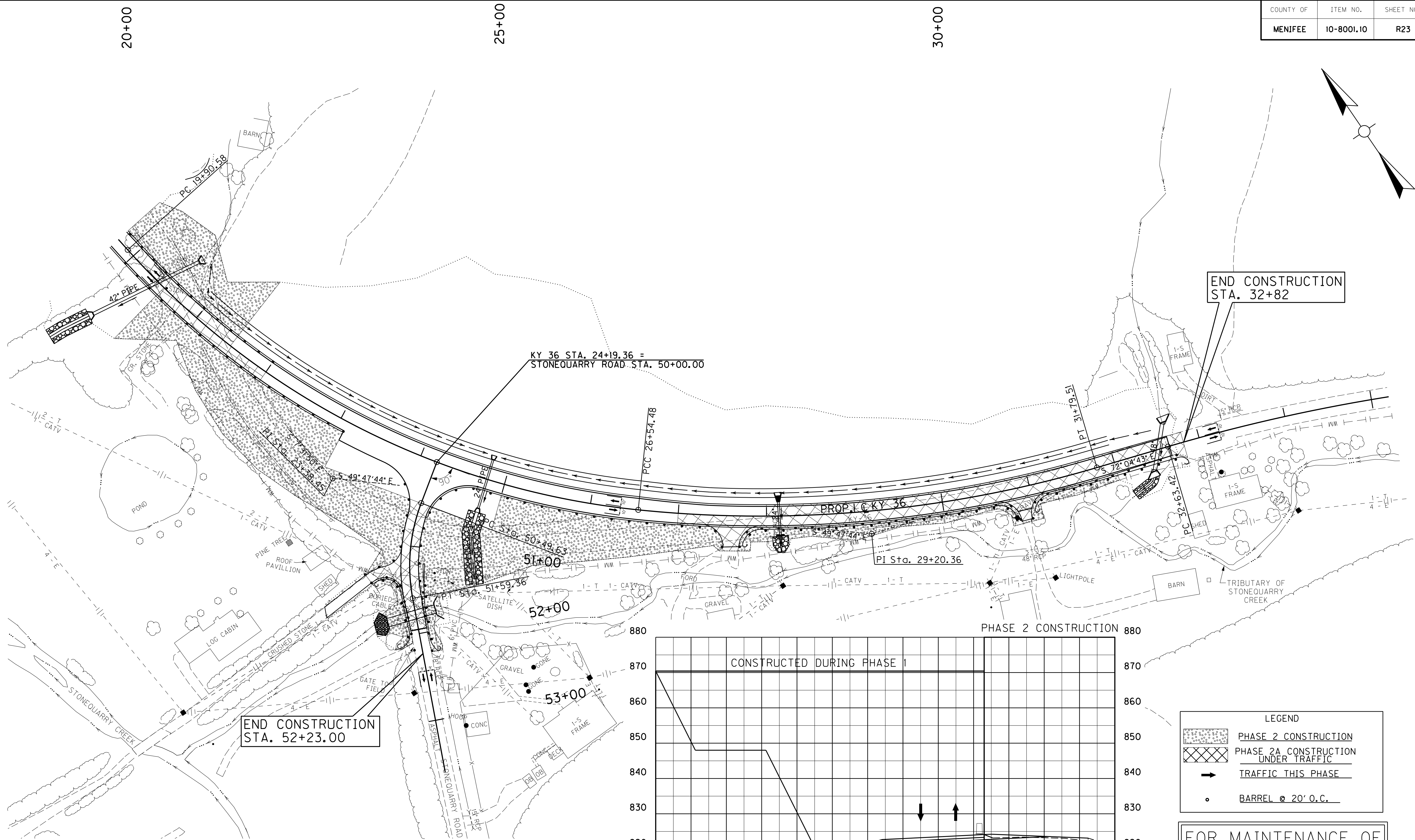


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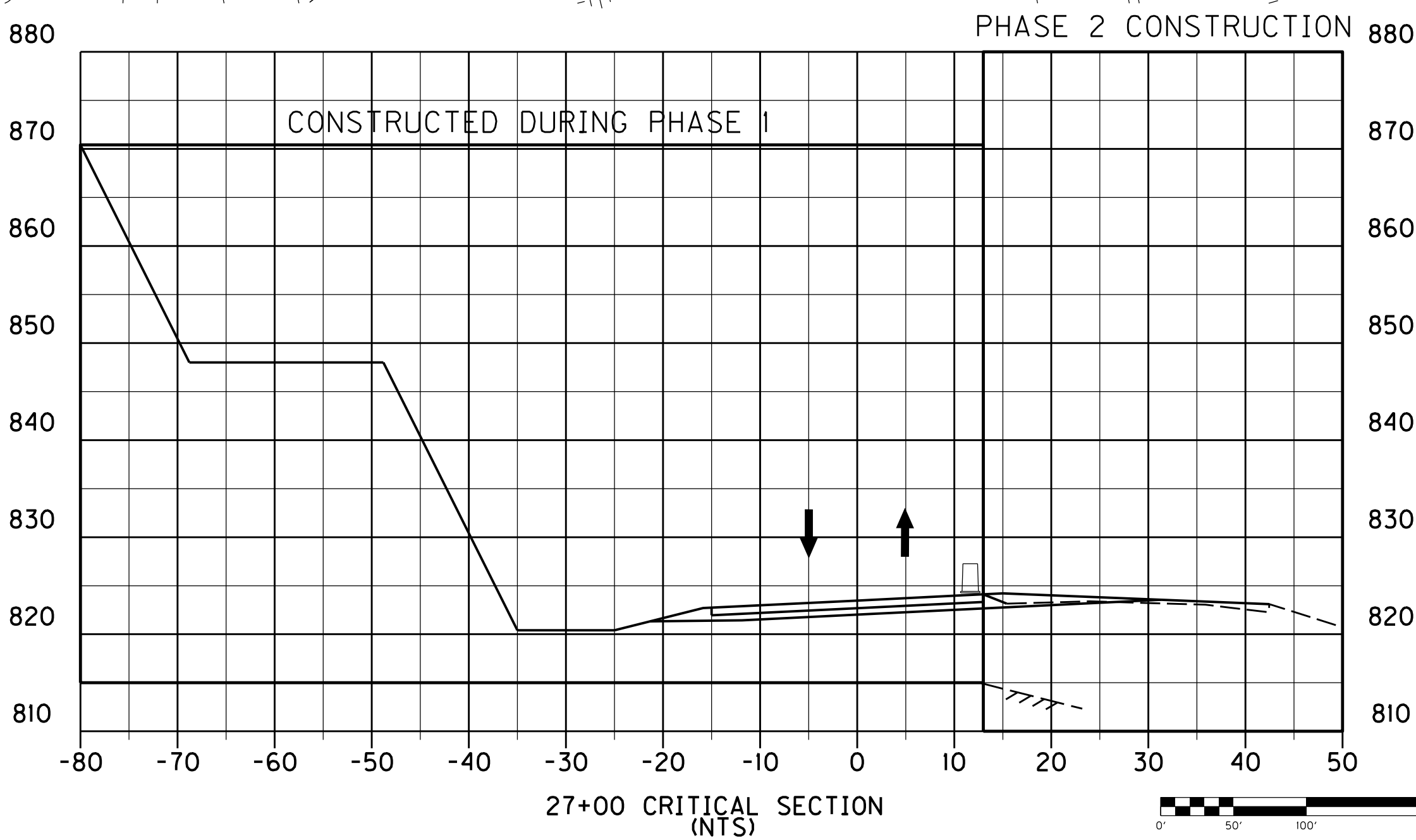
USER: darren.bock
DATE PLOTTED: September 18, 2017

E-SHEET NAME: 102300MT

MicroStation v8.11.9.714



NOTE: THE CONTRACTOR SHALL BUILD A TEMPORARY DETOUR WITHIN THE LIMITS OF THE PROPOSED "TEMPORARY EASEMENT FOR DETOUR CONSTRUCTION" TO PHASE CONSTRUCTION OF THE ALUMINUM PIPE-ARCH. THE DETOUR CONSTRUCTION, INCLUDING ALL LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE BID ITEM FOR MAINTAIN AND CONTROL TRAFFIC.



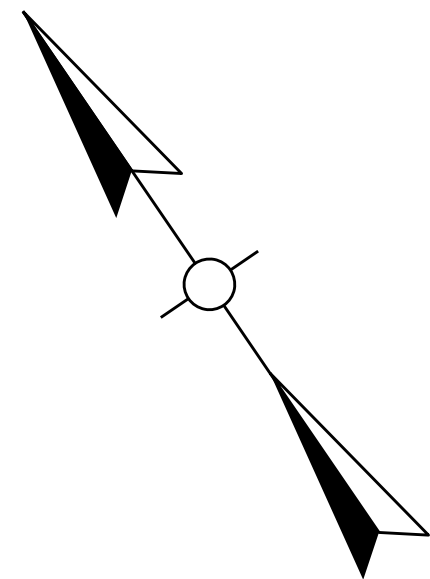
LEGEND

- PHASE 2 CONSTRUCTION
- PHASE 2A CONSTRUCTION UNDER TRAFFIC
- TRAFFIC THIS PHASE
- BARREL @ 20' O.C.

FOR MAINTENANCE OF TRAFFIC ONLY

KY 36 & STONEQUARRY ROAD
STA. 20+00 TO STA. 32+82
PHASE 2 MAINTENANCE OF TRAFFIC

REVISED 09/18/2017

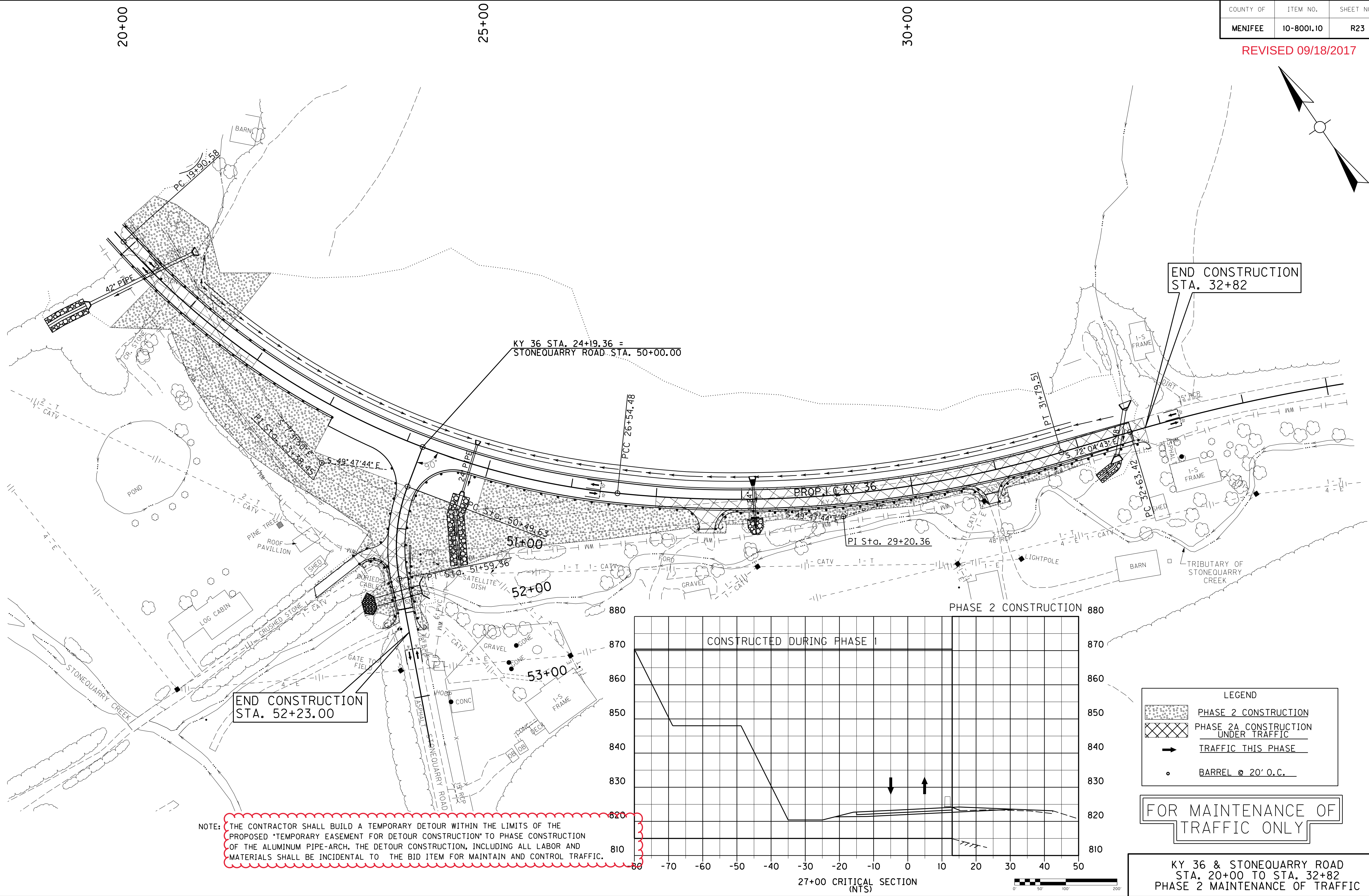


FILE NAME: C:\PWORK\DARREN\BACK\10252529\R02300MT.DGN

USER: darren.bock
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E-SHEET NAME: R02300MT

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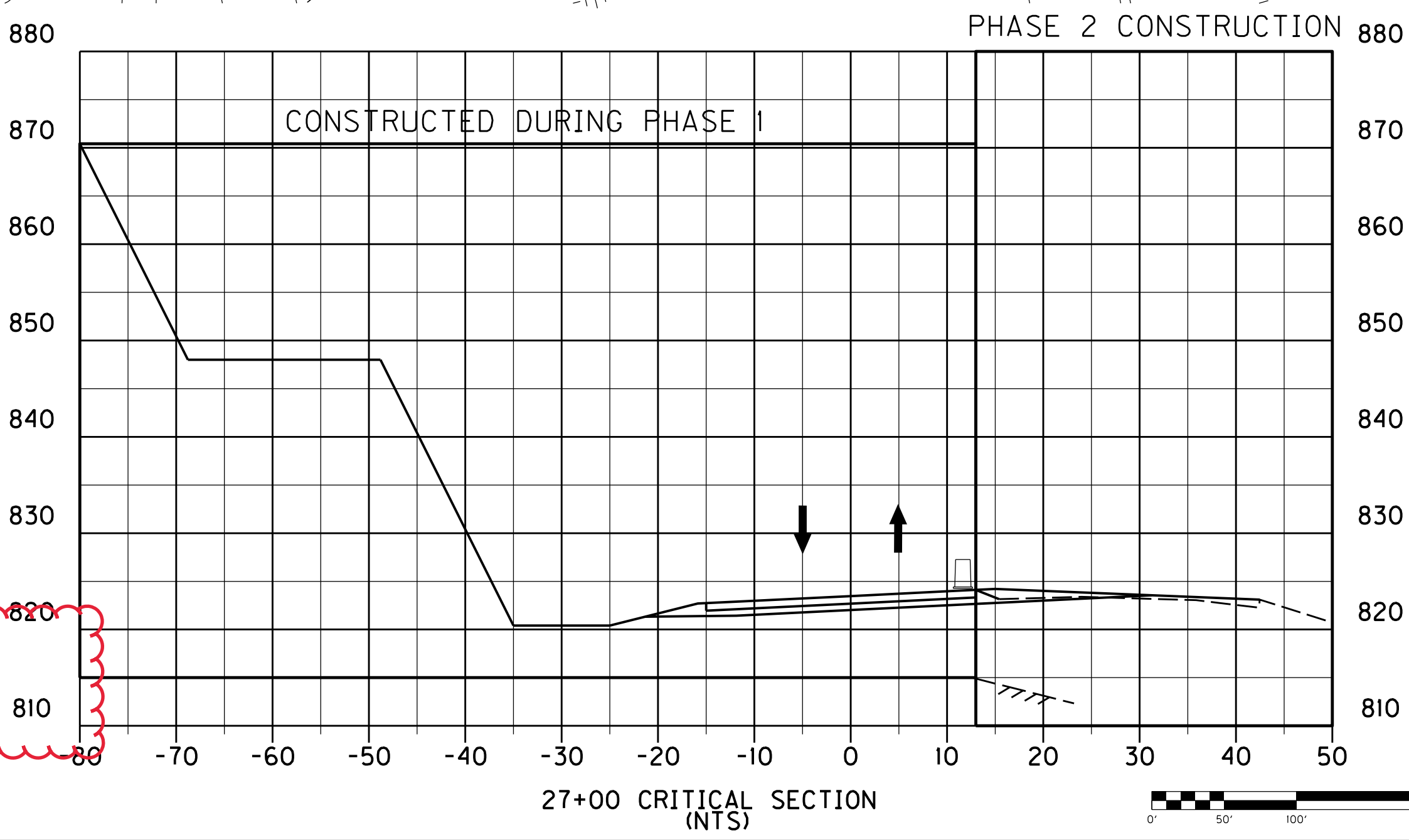


END CONSTRUCTION
STA. 32+82

KY 36 STA. 24+19.36 =
STONEQUARRY ROAD STA. 50+00.00

END CONSTRUCTION
STA. 52+23.00

NOTE: THE CONTRACTOR SHALL BUILD A TEMPORARY DETOUR WITHIN THE LIMITS OF THE PROPOSED TEMPORARY EASEMENT FOR DETOUR CONSTRUCTION TO PHASE CONSTRUCTION OF THE ALUMINUM PIPE-ARCH. THE DETOUR CONSTRUCTION, INCLUDING ALL LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE BID ITEM FOR MAINTAIN AND CONTROL TRAFFIC.



LEGEND

- PHASE 2 CONSTRUCTION
- PHASE 2A CONSTRUCTION UNDER TRAFFIC
- TRAFFIC THIS PHASE
- BARREL @ 20' O.C.

FOR MAINTENANCE OF
TRAFFIC ONLY

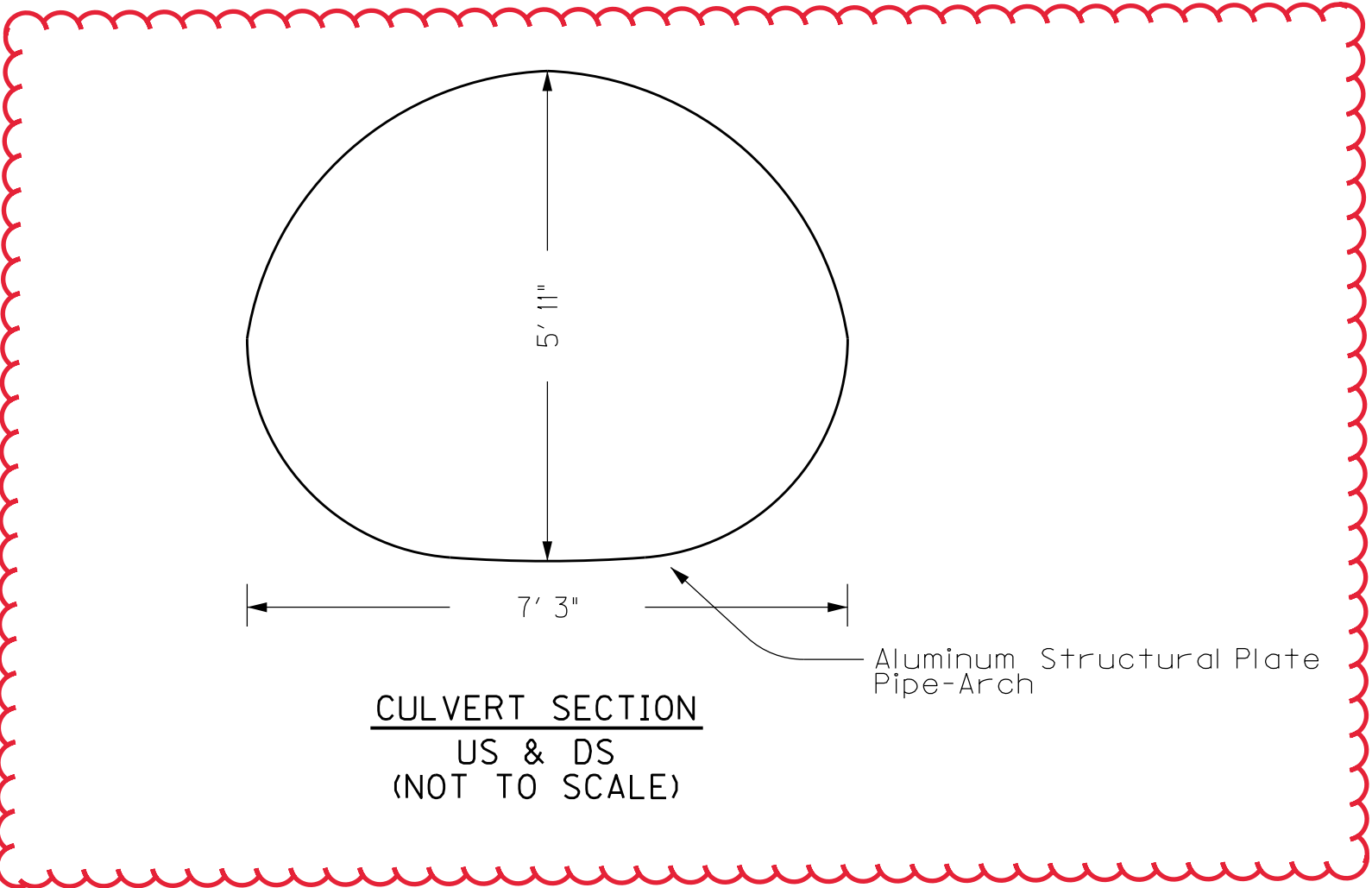
KY 36 & STONEQUARRY ROAD
STA. 20+00 TO STA. 32+82
PHASE 2 MAINTENANCE OF TRAFFIC

COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R44

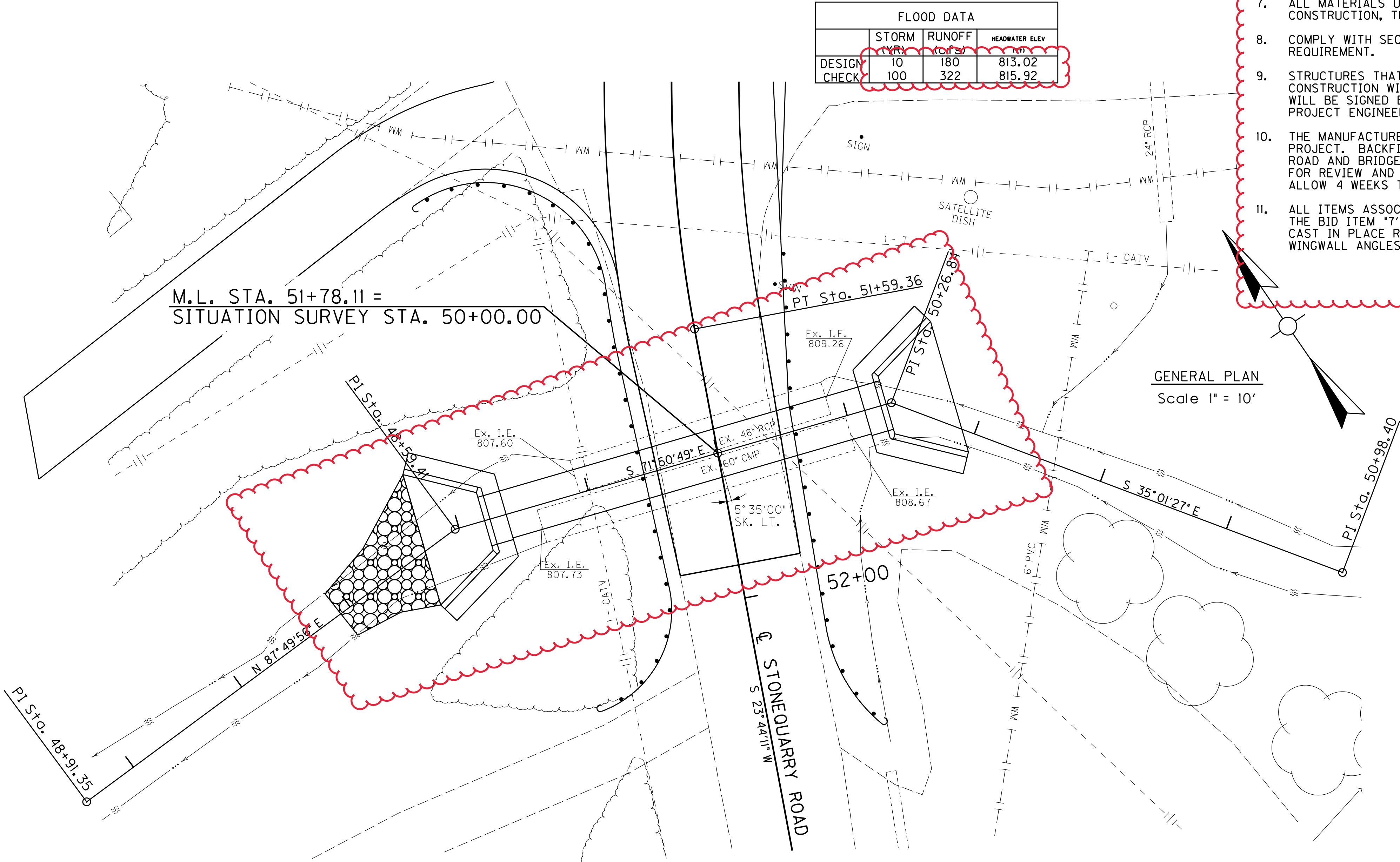
SHOWN IN THESE DRAWINGS IS:
CONTECH ALUMINUM STRUCTURAL PIPE-ARCH (OR EQUIVALENT STRUCTURE)
7'-3" X 5'-11", LISTED FLOW AREA OF 34.3 SQ. FT.

GENERAL NOTES

- DIMENSIONS SHOWN ARE APPROXIMATE AND INTENDED TO CONVEY ENOUGH INFORMATION TO DEVELOP DETAIL STRUCTURAL DRAWINGS, AND BIDDING DOCUMENTS. IF CONTRACTOR DESIRES TO MODIFY THIS LAYOUT, NO PAYMENT ADJUSTMENTS WILL BE ALLOWED.
- IF AN ALTERNATE IS USED THAT REQUIRES MODIFICATIONS TO LAYOUT OR ROADWAY PROFILE, NO PAYMENT ADJUSTMENTS WILL BE ALLOWED.
- IF A PRECAST CONCRETE STRUCTURE IS SELECTED AS AN ALTERNATE, A STRUCTURAL BASE SLAB SHALL BE REQUIRED, AND IS INCIDENTAL TO THE STRUCTURE.
- ALL WORK TO CONSTRUCT THE CULVERT IS PAID FOR UNDER THE BID ITEMS "7'-3" X 5'-11" ALUMINUM ALLOY STRUCTURAL PLATE PIPE-ARCH." THIS BID ITEM IS A LINEAR FOOT BID ITEM THAT COVERS ALL WORK TO CONSTRUCT AND INSTALL THE CULVERT TO MANUFACTURER'S SPECIFICATIONS. THE FOLLOWING ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE STRUCTURE: STRUCTURE EXCAVATION, BACKFILL, AND ALL ITEMS NECESSARY TO CONSTRUCT HEADWALLS AND WINGWALLS. ALSO INCLUDED IN THIS BID ITEM IS ALL WORK AND MATERIALS REQUIRED TO OBTAIN A MINIMUM BEARING CAPACITY OF 4,000 PSF.
- ALL COMPONENTS MUST BE DESIGNED TO MEET STRUCTURAL REQUIREMENTS AS SET FORTH FOR EARTH, DEAD, AND HL-93 LIVE LOAD IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, WITH INTERIMS. ALL DESIGNS SUBMITTED FOR CONSIDERATION MUST BE PERFORMED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF KENTUCKY.
- ALL FOUNDATION DESIGNS MUST BE IN ACCORDANCE WITH THE APPROPRIATE PROJECT GEOTECHNICAL INVESTIGATION.
- ALL MATERIALS USED MUST BE IN CONFORMANCE WITH KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE KYTC LIST OF APPROVED MATERIALS, AND ALL APPLICABLE ASTM AND AASHTO STANDARDS.
- COMPLY WITH SECTION 106.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION BUY AMERICAN REQUIREMENT.
- STRUCTURES THAT REQUIRE SPECIAL BACKFILL CONTRARY TO KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WILL REQUIRE A CERTIFICATION LETTER STATING THAT THE BACKFILL WAS CONSTRUCTED PROPERLY. THE LETTER WILL BE SIGNED BY THE CONTRACTOR AND THE MANUFACTURER OF THE STRUCTURE AND WILL BE SUBMITTED TO THE PROJECT ENGINEER.
- THE MANUFACTURER OR SUPPLIER MUST PROVIDE 6 COPIES OF DETAILED SHOP DRAWINGS FOR FINAL APPROVAL FOR USE ON THIS PROJECT. BACKFILL REQUIREMENTS AND ANY SPECIFICATIONS THAT ARE CONTRARY TO THE KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHOULD BE SUPPLIED AS WELL. INCLUDE ONE SET OF STRUCTURAL DESIGN CALCULATIONS FOR REVIEW AND ARCHIVAL PURPOSES. THIS INFORMATION WILL BE SUBMITTED TO THE DIVISION OF CONSTRUCTION. ALLOW 4 WEEKS TIME FOR REVIEW OF THIS MATERIAL.
- ALL ITEMS ASSOCIATED WITH THE DESIGN AND CONSTRUCTION OF HEADWALLS AND WINGWALLS SHALL BE INCIDENTAL TO THE BID ITEM "7'-3" X 5'-11" ALUMINUM ALLOY STRUCTURAL PLATE PIPE-ARCH." HEADWALLS AND WINGWALLS SHALL BE CAST IN PLACE REINFORCED CONCRETE AND THE DESIGN SHALL BE BASED FROM RDH-400-02 OF THE 2016 STANDARD DRAWINGS. WINGWALL ANGLES SHALL BE DETERMINED AND APPROVED BY THE PROJECT ENGINEER.



FLOOD DATA			
	STORM	RUNOFF	HEADWATER ELEV
DESIGN	10	180	813.02
CHECK	100	322	815.92



CULVERT AT STA. 51+78.11
SITUATION SURVEY SHEET

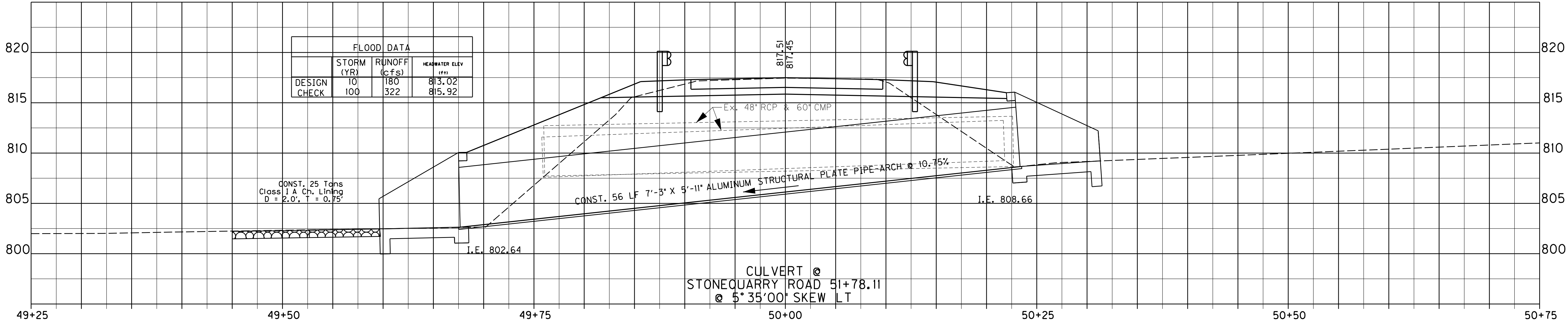
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USER: darren.bock
DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO4500PD

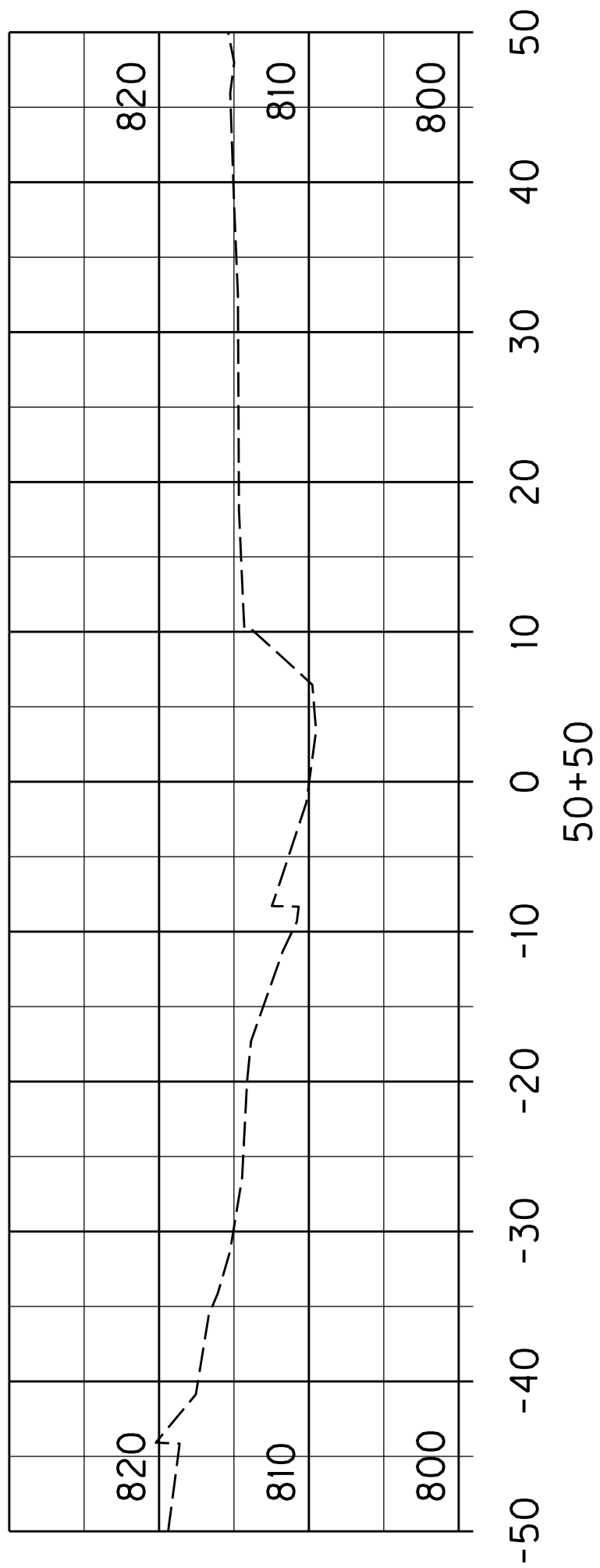
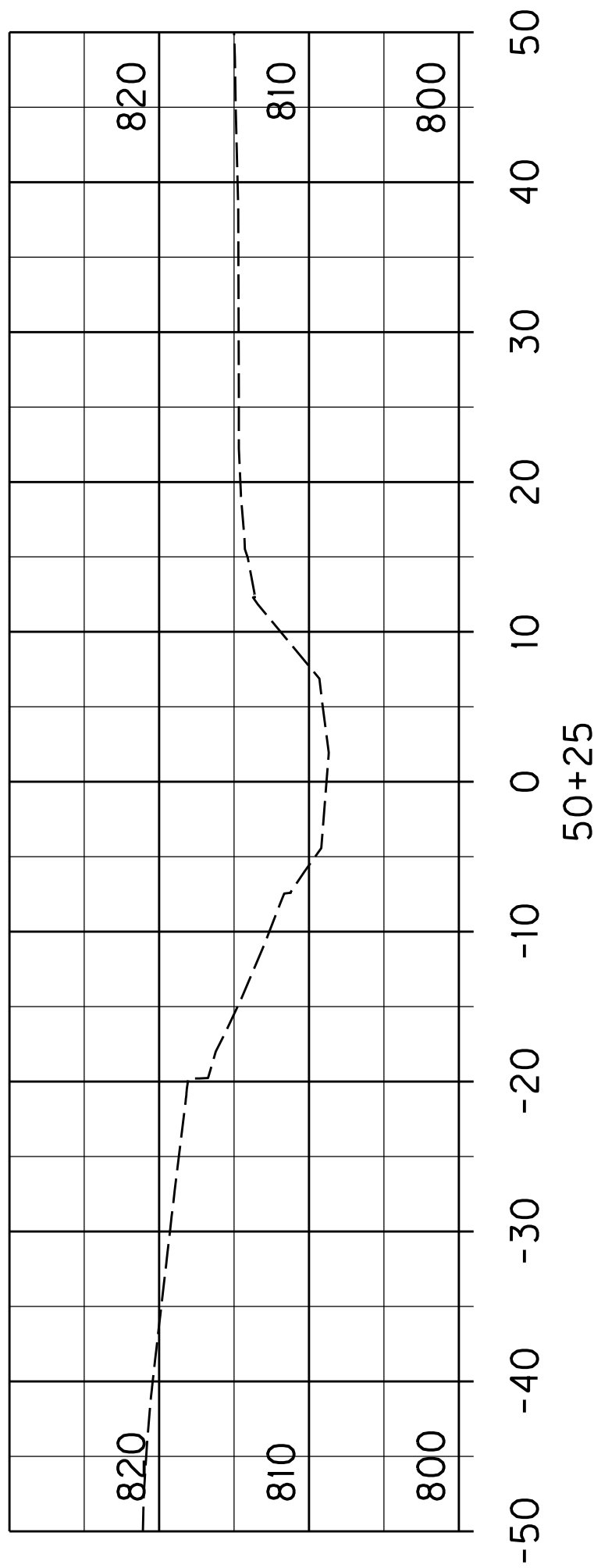
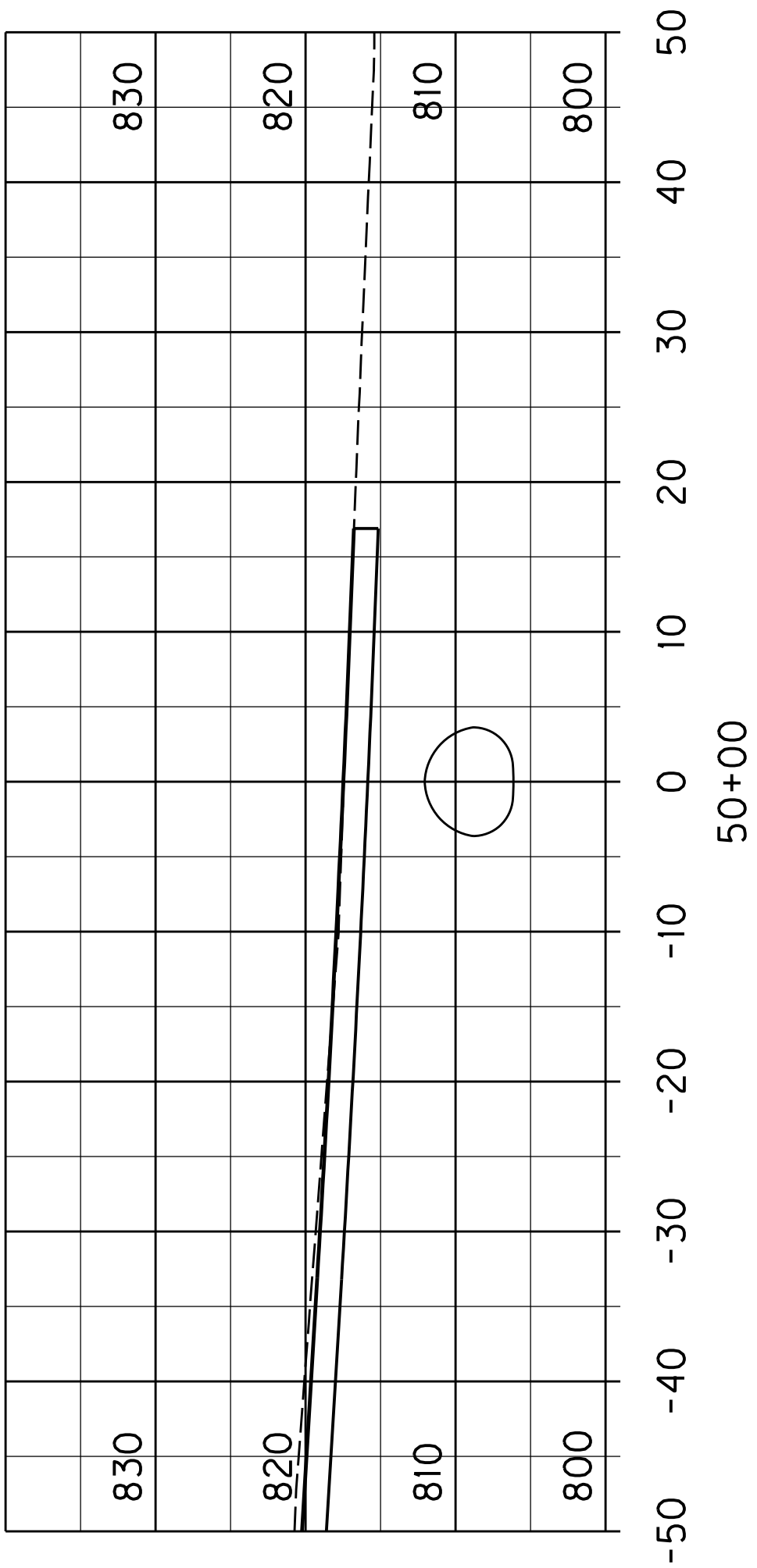
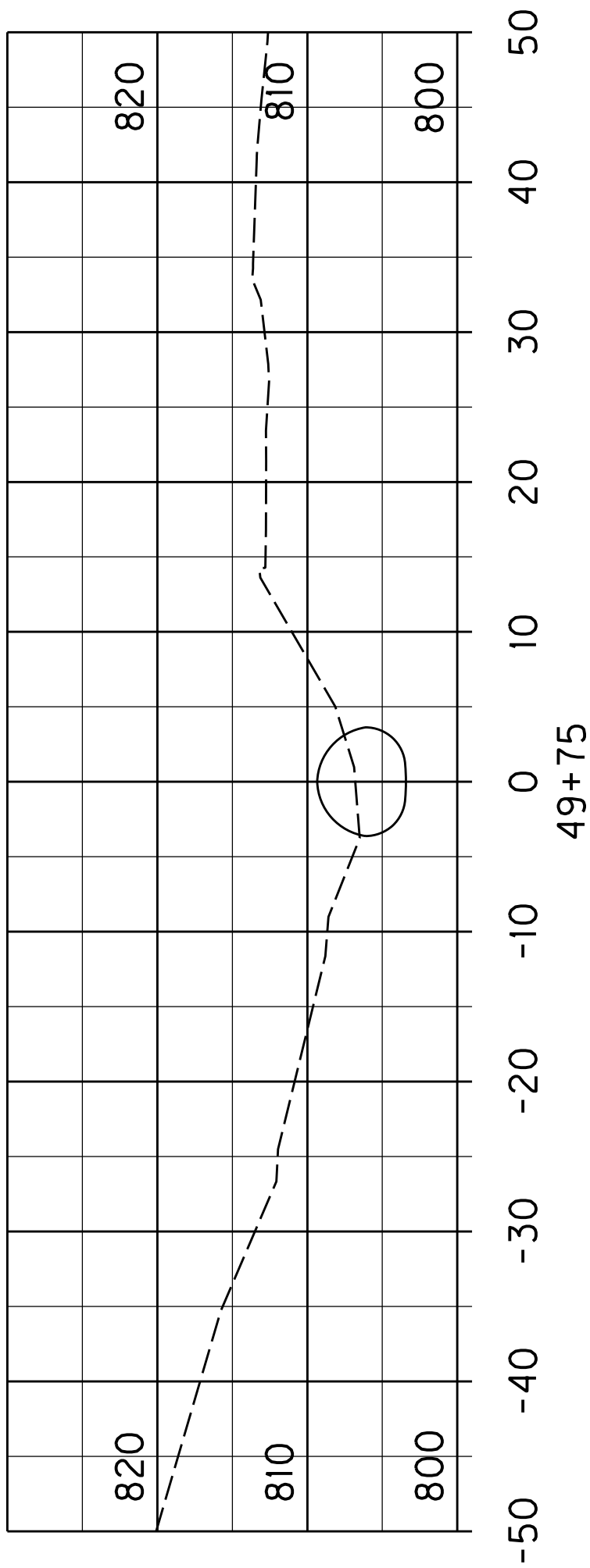
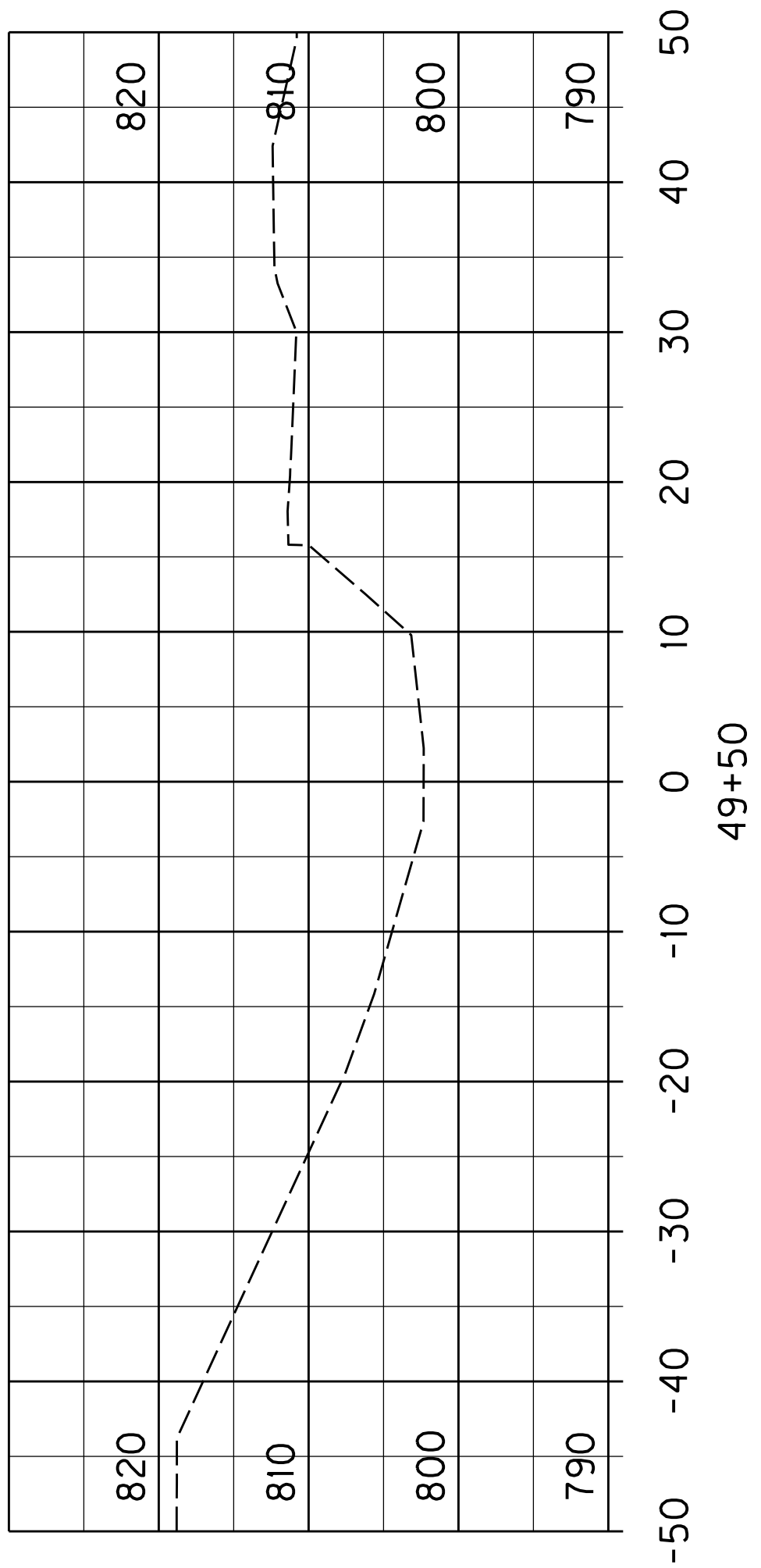
MicroStation v8.11.9.832

COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R45



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

CULVERT AT STA. 51+78.11
SITUATION SURVEY SHEET



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

FILE NAME: C:\PIWORK\DARREN\BACK\1292529\RO4500PD.DGN

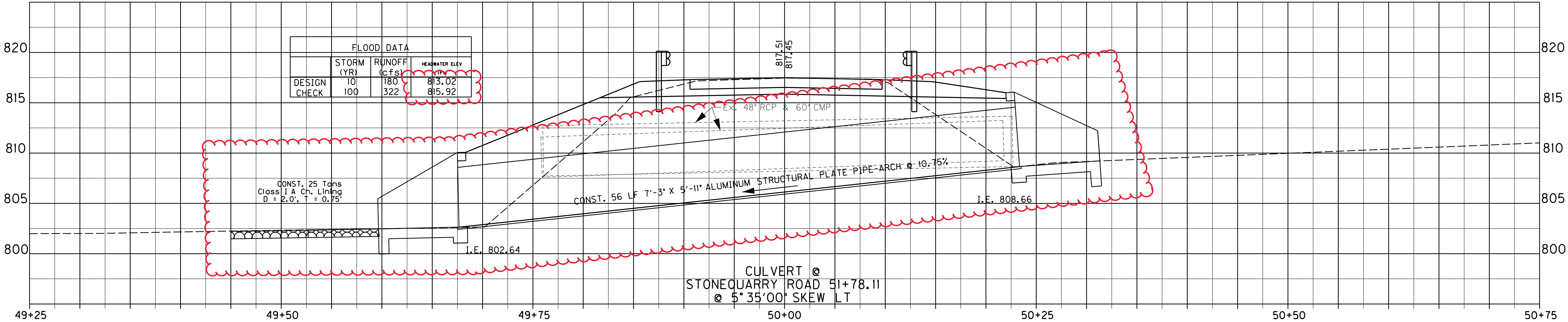
USER: darren.bock
DATE PLOTTED: September 18, 2017

E-SHEET NAME: RO4500PD

MicroStation v8.11.9.832

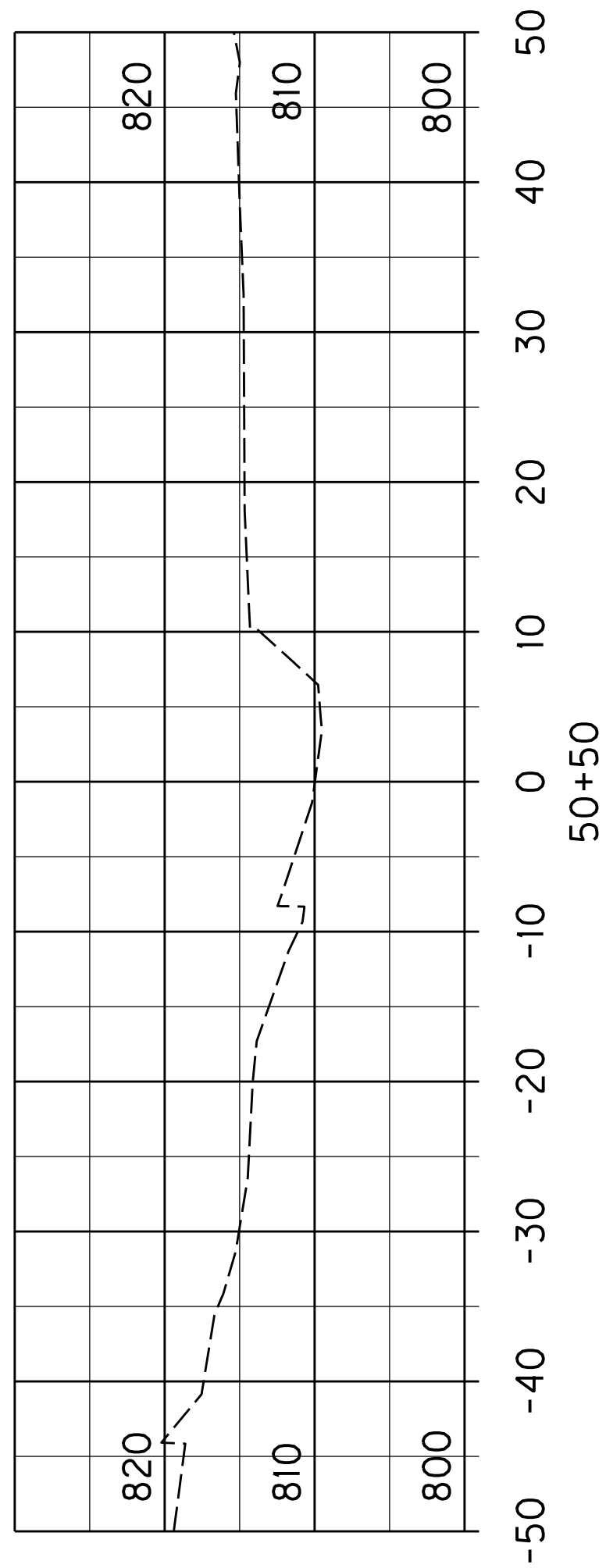
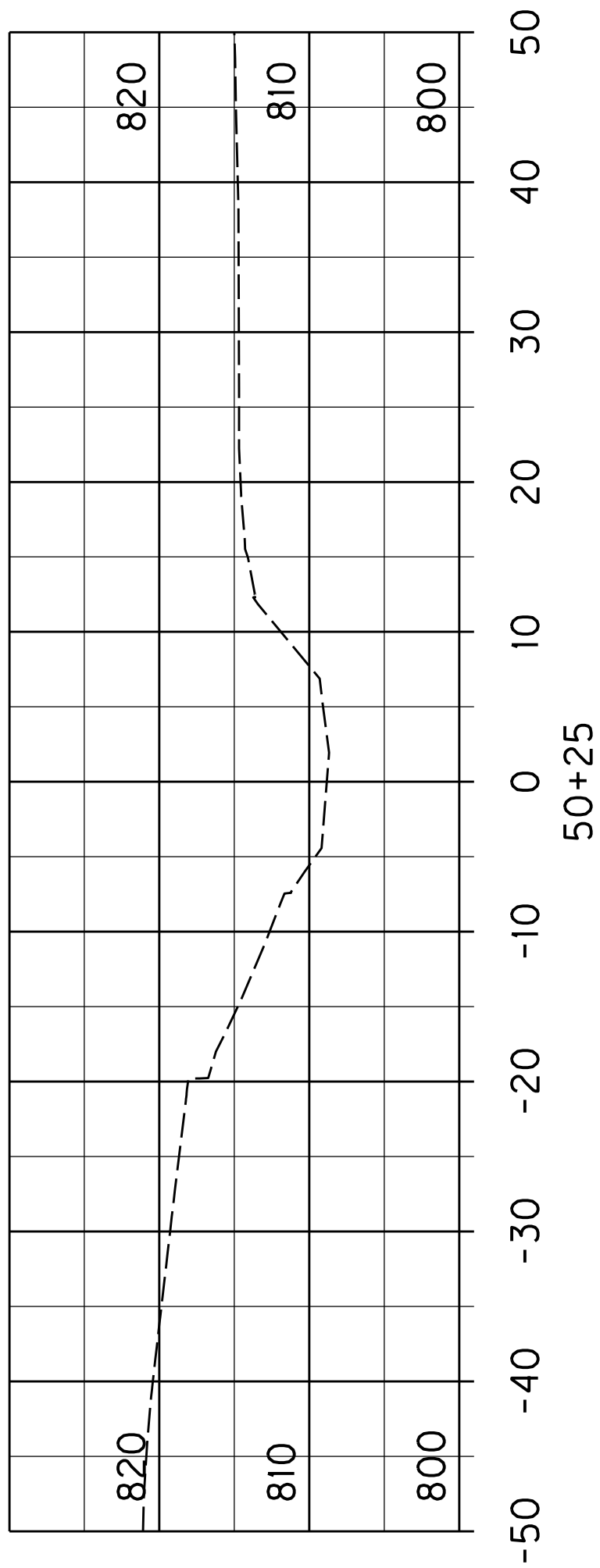
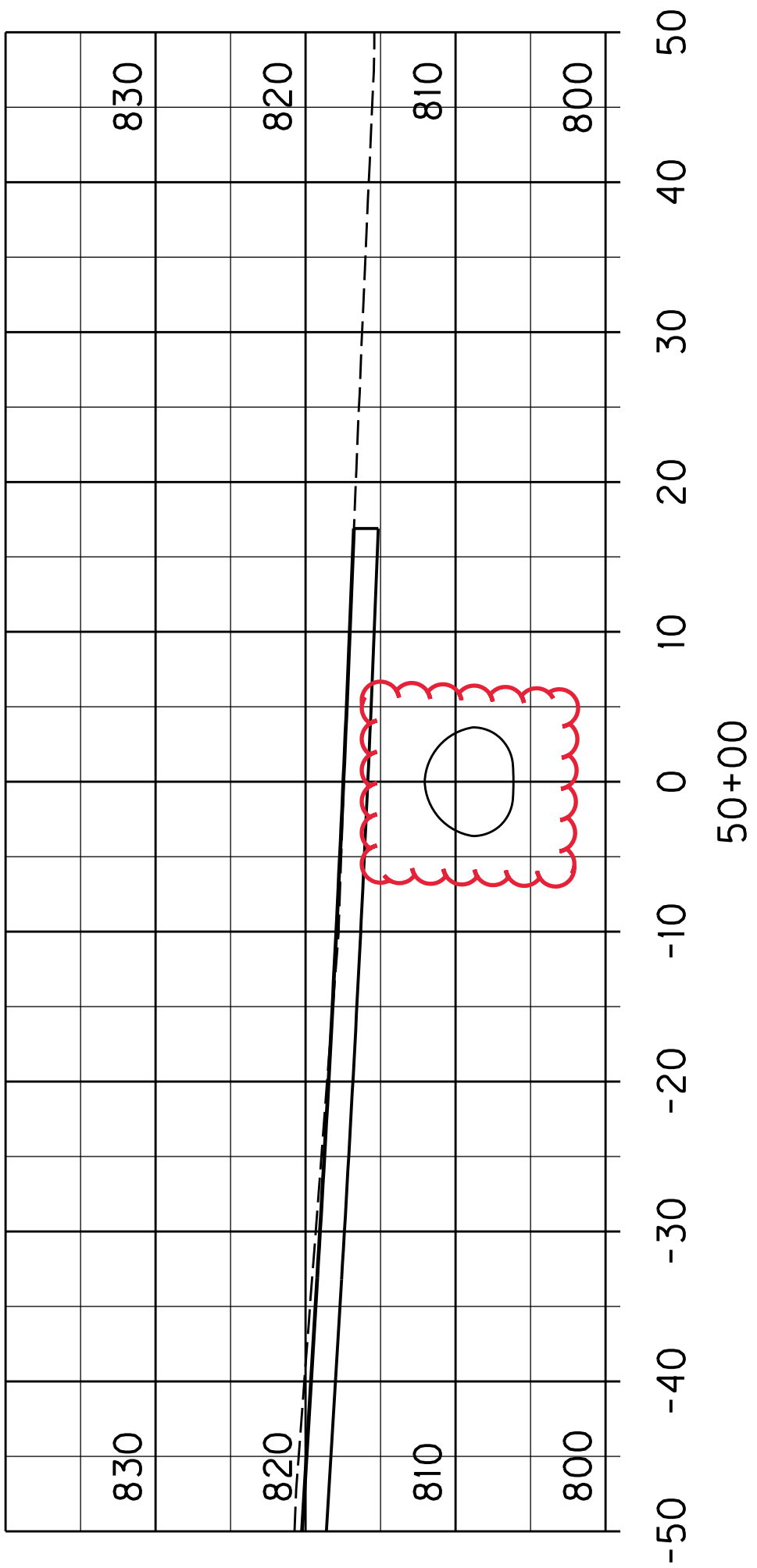
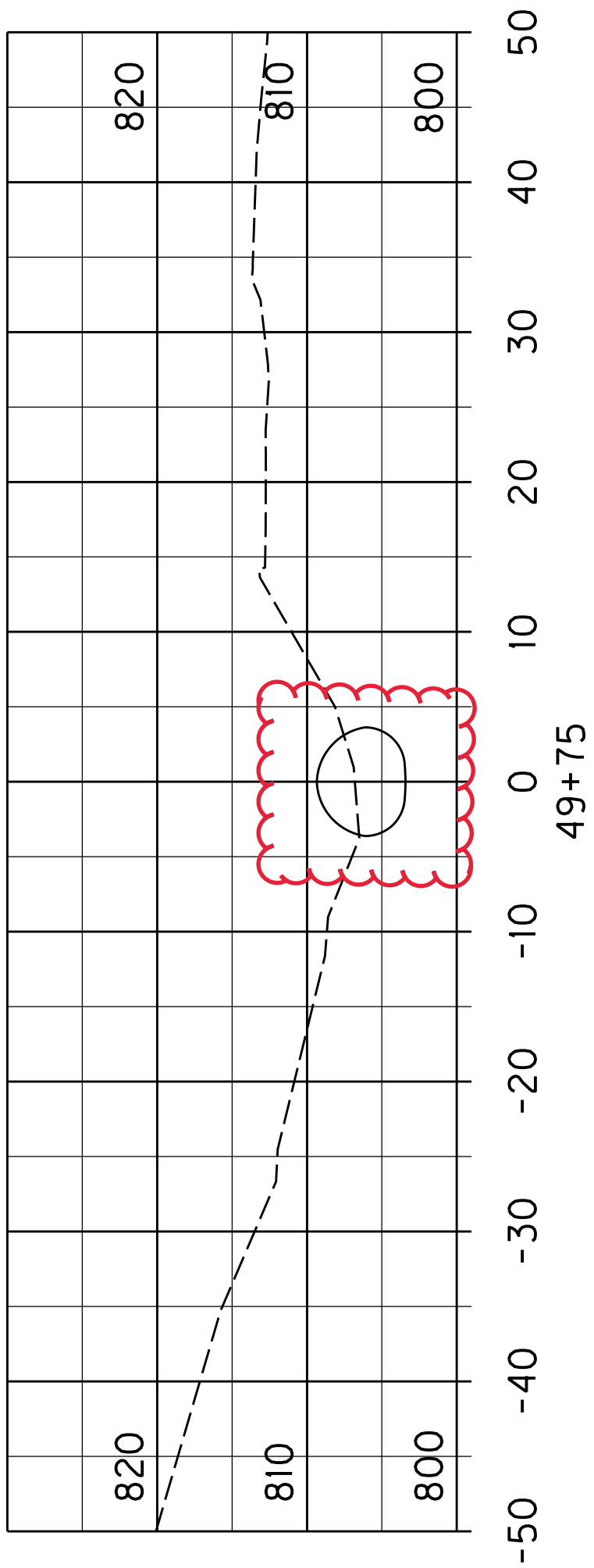
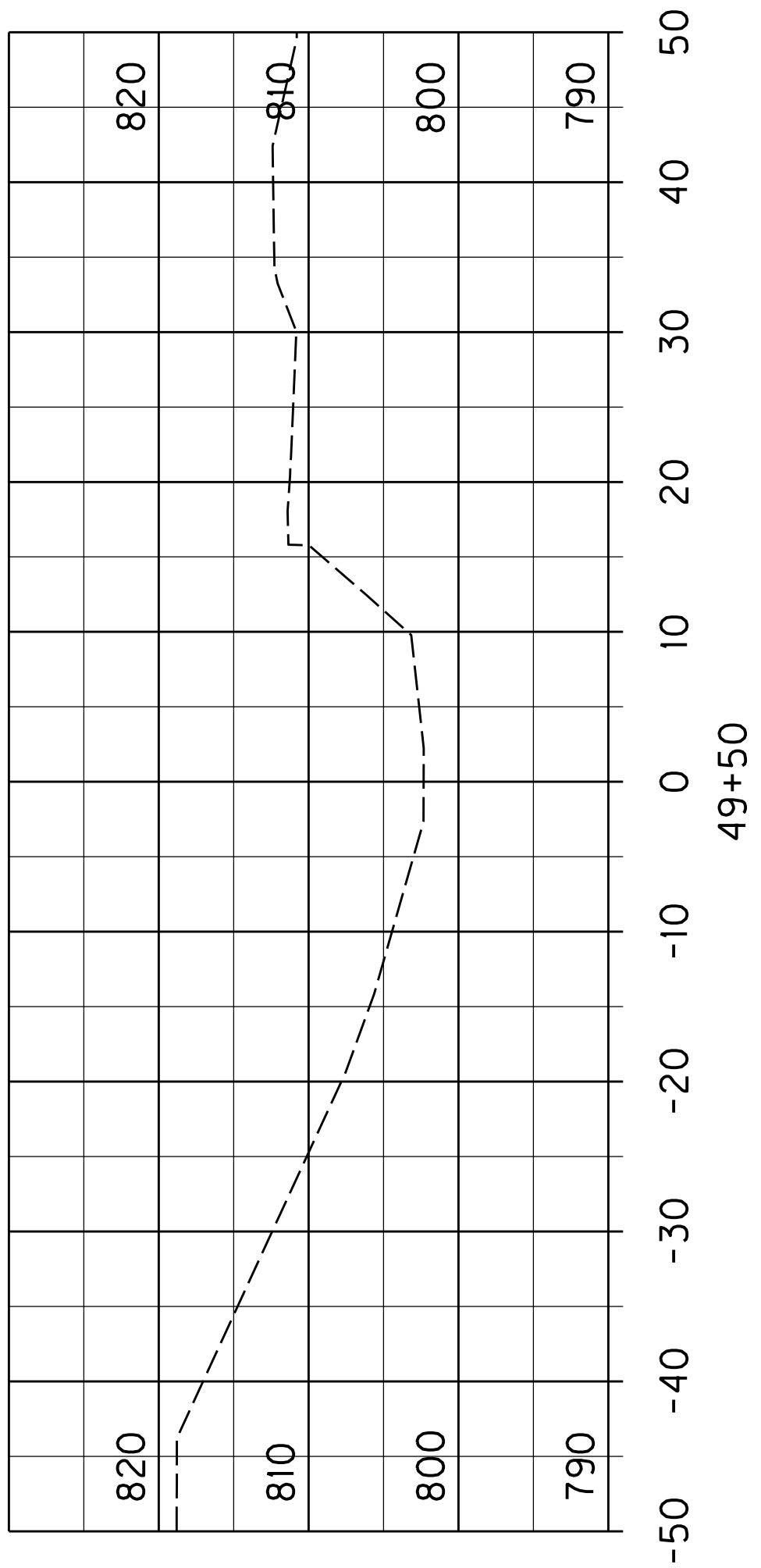
COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-8001.10	R45

REVISED 09/18/2017



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

CULVERT AT STA. 51+78.11
SITUATION SURVEY SHEET



SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	6,967.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	83.00	TON		\$	
0030	00078		CRUSHED AGGREGATE SIZE NO 2	100.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	53.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	6.40	TON		\$	
0060	00221		CL2 ASPH BASE 0.75D PG64-22	4,666.00	TON		\$	
0070	00301		CL2 ASPH SURF 0.38D PG64-22	684.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	01000		PERFORATED PIPE-4 IN	100.00	LF		\$	
0090	01020		PERF PIPE HEADWALL TY 1-4 IN	2.00	EACH		\$	
0100	02091		REMOVE PAVEMENT	118.00	SQYD		\$	
0110	02159		TEMP DITCH	1,596.00	LF		\$	
0120	02160		CLEAN TEMP DITCH	798.00	LF		\$	
0130	02200		ROADWAY EXCAVATION	178,020.00	CUYD		\$	
0140	02242		WATER (FOR DUST CONTROL)	893.00	MGAL		\$	
0150	02351		GUARDRAIL-STEEL W BEAM-S FACE	1,625.00	LF		\$	
0160	02360		GUARDRAIL TERMINAL SECTION NO 1	7.00	EACH		\$	
0170	02367		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH		\$	
0180	02371		GUARDRAIL END TREATMENT TYPE 7	3.00	EACH		\$	
0190	02429		RIGHT-OF-WAY MONUMENT TYPE 1	33.00	EACH		\$	
0200	02432		WITNESS POST	4.00	EACH		\$	
0210	02545		CLEARING AND GRUBBING (APPROXIMATELY 12.8 ACRES)	1.00	LS		\$	
0220	02562		TEMPORARY SIGNS	112.00	SQFT		\$	
0230	02585		EDGE KEY	115.00	LF		\$	
0240	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	917.00	SQYD	\$2.00	\$	\$1,834.00
0250	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0260	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0270	02701		TEMP SILT FENCE	1,596.00	LF		\$	
0280	02703		SILT TRAP TYPE A	15.00	EACH		\$	
0290	02704		SILT TRAP TYPE B	15.00	EACH		\$	
0300	02705		SILT TRAP TYPE C	15.00	EACH		\$	
0310	02706		CLEAN SILT TRAP TYPE A	15.00	EACH		\$	
0320	02707		CLEAN SILT TRAP TYPE B	15.00	EACH		\$	
0330	02708		CLEAN SILT TRAP TYPE C	15.00	EACH		\$	
0340	02726		STAKING	1.00	LS		\$	
0350	02775		ARROW PANEL	4.00	EACH		\$	
0360	05026		EASTERN WHITE PINE	4.00	EACH		\$	
0370	05950		EROSION CONTROL BLANKET	1,045.00	SQYD		\$	
0380	05952		TEMP MULCH	46,174.00	SQYD		\$	
0390	05953		TEMP SEEDING AND PROTECTION	34,631.00	SQYD		\$	
0400	05963		INITIAL FERTILIZER	1.80	TON		\$	
0410	05964		20-10-10 FERTILIZER	3.00	TON		\$	

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PROPOSAL BID ITEMS

Report Date 9/19/17

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0420	05985		SEEDING AND PROTECTION	58,282.00	SQYD		\$	
0430	05992		AGRICULTURAL LIMESTONE	37.00	TON		\$	
0440	06510		PAVE STRIPING-TEMP PAINT-4 IN	5,434.00	LF		\$	
0450	06514		PAVE STRIPING-PERM PAINT-4 IN	11,708.00	LF		\$	
0460	06568		PAVE MARKING-THERMO STOP BAR-24IN	55.00	LF		\$	
0470	10020NS		FUEL ADJUSTMENT	41,623.00	DOLL	\$1.00	\$	\$41,623.00
0480	10030NS		ASPHALT ADJUSTMENT	20,916.00	DOLL	\$1.00	\$	\$20,916.00
0490	22664EN		WATER BLASTING EXISTING STRIPE	8,151.00	LF		\$	
0500	23029NS724		SAUCER MAGNOLIA	4.00	EACH		\$	
0510	23274EN11F		TURF REINFORCEMENT MAT 1	258.00	SQYD		\$	
0520	24393ES724		AMERICAN HOLLY	4.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0530	00440		ENTRANCE PIPE-15 IN	36.00	LF		\$	
0540	00464		CULVERT PIPE-24 IN	100.00	LF		\$	
0550	00466		CULVERT PIPE-30 IN	56.00	LF		\$	
0560	00469		CULVERT PIPE-42 IN	135.00	LF		\$	
0570	00472		CULVERT PIPE-60 IN	69.00	LF		\$	
0580	00494		CULVERT PIPE-30 IN EQUIV	91.00	LF		\$	
0590	00499		CULVERT PIPE-48 IN EQUIV	54.00	LF		\$	
0600	01208		PIPE CULVERT HEADWALL-24 IN	2.00	EACH		\$	
0610	01210		PIPE CULVERT HEADWALL-30 IN	1.00	EACH		\$	
0620	01211		PIPE CULVERT HEADWALL-30 IN EQUIV	1.00	EACH		\$	
0630	01214		PIPE CULVERT HEADWALL-42 IN	2.00	EACH		\$	
0640	01217		PIPE CULVERT HEADWALL-48 IN EQUIV	2.00	EACH		\$	
0650	01220		PIPE CULVERT HEADWALL-60 IN	1.00	EACH		\$	
0660	01451		S & F BOX INLET-OUTLET-24 IN	1.00	EACH		\$	
0670	01452		S & F BOX INLET-OUTLET-30 IN	1.00	EACH		\$	
0680	01453		S & F BOX INLET-OUTLET-36 IN	1.00	EACH		\$	
0690	02220		FLOWABLE FILL	28.00	CUYD		\$	
0700	02482		CHANNEL LINING CLASS IA	10.00	TON		\$	
0710	02483		CHANNEL LINING CLASS II	117.00	TON		\$	
0720	02484		CHANNEL LINING CLASS III	404.00	TON		\$	
0730	08100		CONCRETE-CLASS A	1.99	CUYD		\$	
0740	20597EC		DITCH EXCAVATION	209.00	CUYD		\$	
0750	22533EN		ALUMINUM ALLOY STRUCT PLATE PIPE ARCH (REVISED: 9-19-17)	56.00	LF		\$	
0760	24814EC		PIPELINE INSPECTION	247.50	LF		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0770	02568		MOBILIZATION	1.00	LS		\$	
0780	02569		DEMOBILIZATION	1.00	LS		\$	