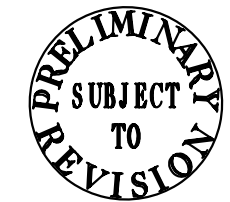


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				6	ARK.			
						JOB NO.	061454	

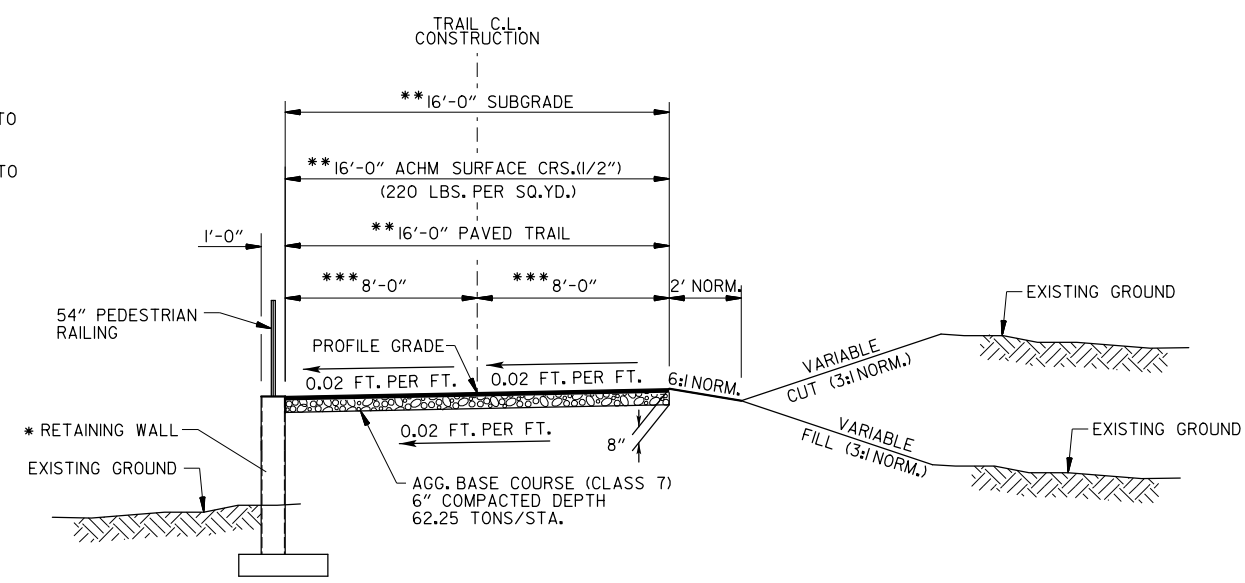
2 TYPICAL SECTIONS OF IMPROVEMENT



*** NOTE:
WIDTH VARIES FROM
7'-0" AT STA. 200+00.00, LT. TO
8'-0" AT STA. 200+76.50 LT.
WIDTH VARIES FROM
6'-0" AT STA. 200+00.00, RT. TO
8'-0" AT STA. 200+76.50 RT.

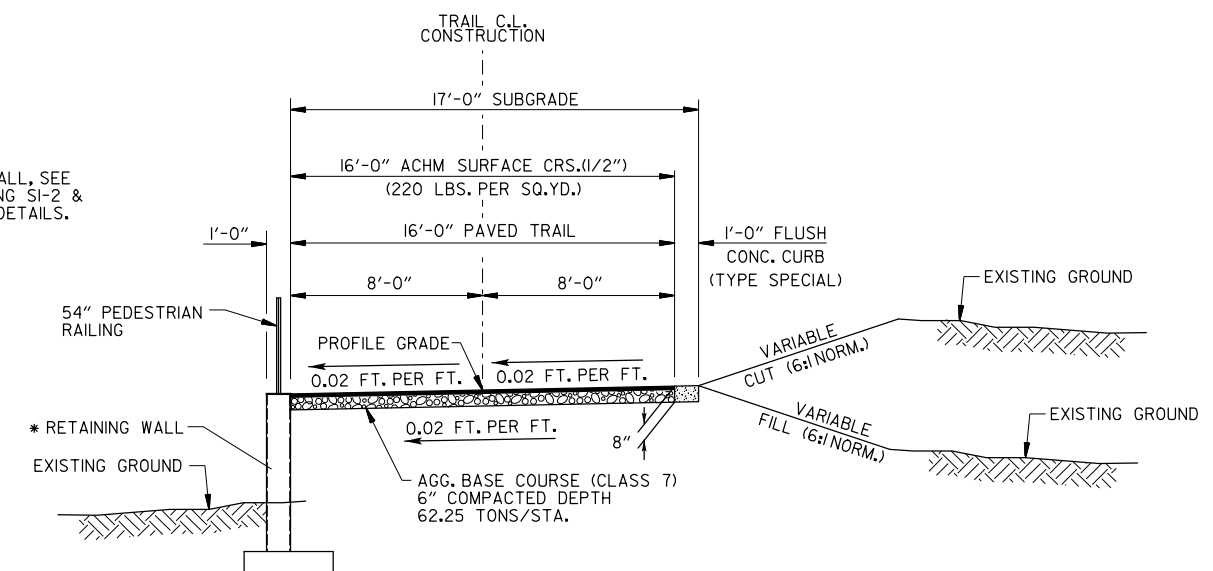
** NOTE:
WIDTH VARIES FROM
13'-0" AT STA. 200+00.00 TO
16'-0" AT STA. 200+76.50

* NOTE:
FOR RETAINING WALL, SEE
STANDARD DRAWING SI-2 &
RETAINING WALL DETAILS.

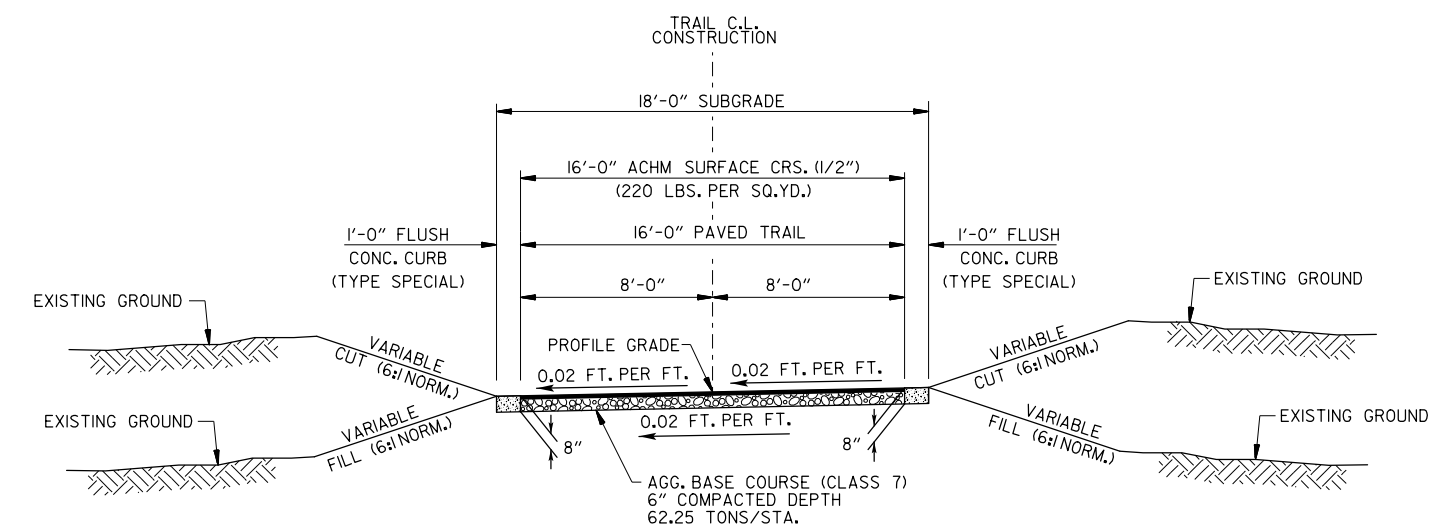


TRAIL TYPICAL SECTION AT WALL
STA. 200+00.00 TO STA. 201+82.76

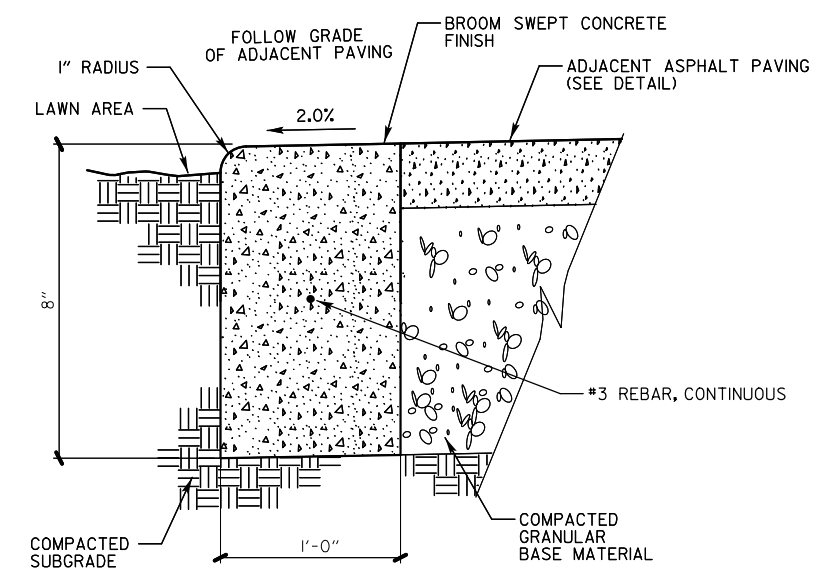
* NOTE:
FOR RETAINING WALL, SEE
STANDARD DRAWING SI-2 &
RETAINING WALL DETAILS.



TRAIL TYPICAL SECTION AT WALL
STA. 202+98.76 TO STA. 203+10.76



TRAIL TYPICAL SECTION
STA. 203+10.76 TO STA. 203+70.14



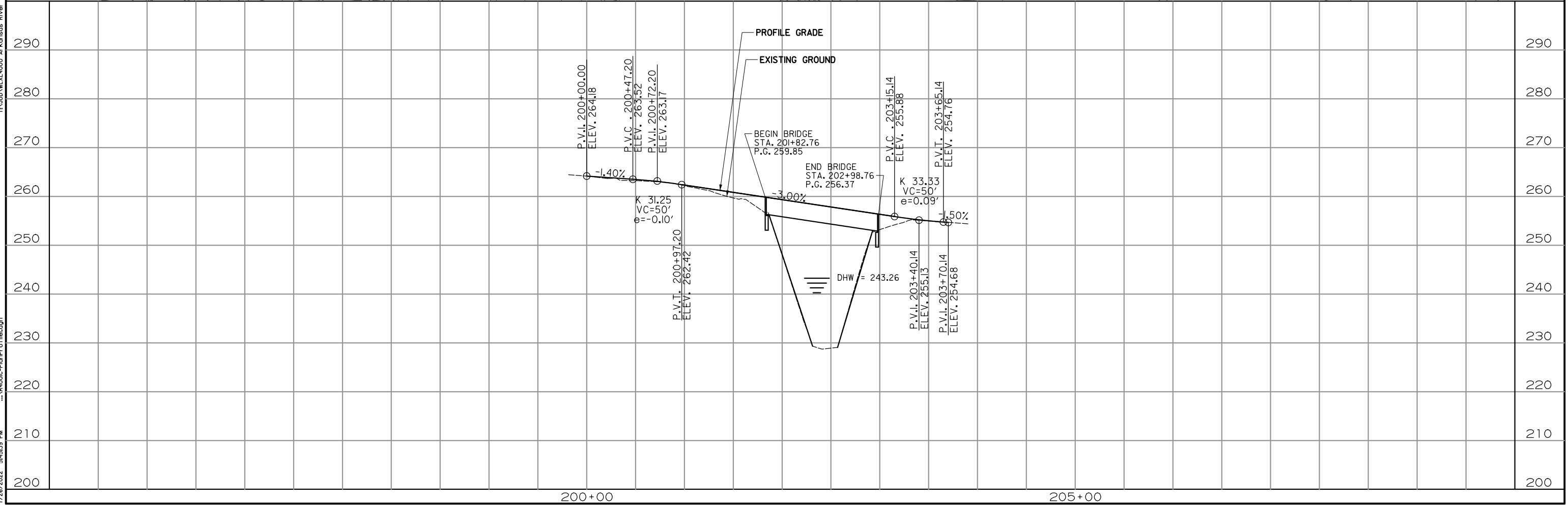
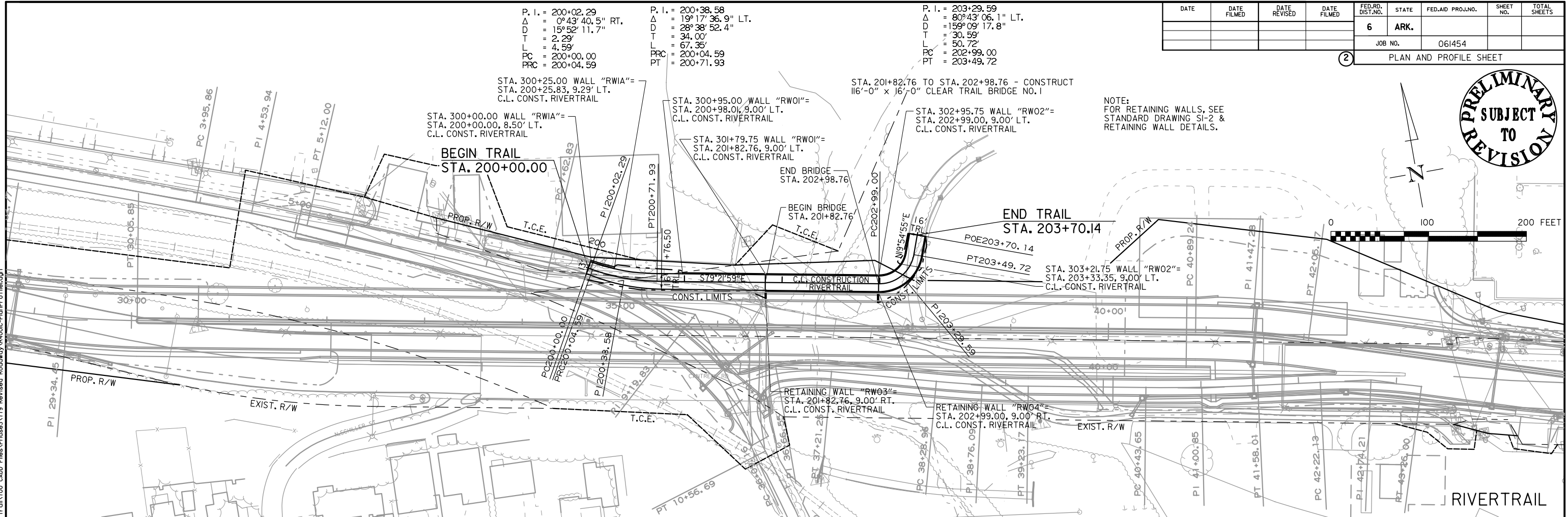
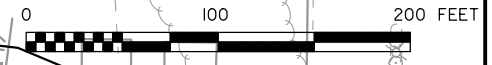
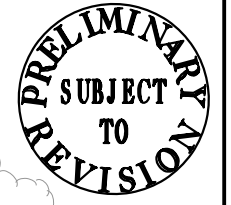
CONCRETE CURB (TYPE SPECIAL)

NOTES:
TYPICAL SECTIONS SHOWN LOOKING AHEAD STATION.
THE CROSS SLOPE OF THE PAVED TRAIL SHALL NOT EXCEED 0.02'/' OR 2.00%.
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
SUBGRADE CROSS SLOPE TO MATCH FINISHED GRADE CROSS SLOPE UNLESS OTHERWISE STATED.
FOR CROSS SLOPES, SEE PLAN & PROFILE SHEETS AND CROSS SECTIONS. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE CURB AT 60' INTERVALS.
FLUSH CONCRETE CURB SHALL BE CONSTRUCTED LEVEL AT THE FINISH GRADE OF THE TRAIL.

TYPICAL SECTIONS OF IMPROVEMENT

I:\Jobs\114.4000 Arkansas River Trail\100 CADD Files\Phase3\1179 Revised Roadway\AR000C-Typical-section1.dgn 7/26/2022 5:46:34 PM ...AR000C-Typical-section1.dgn

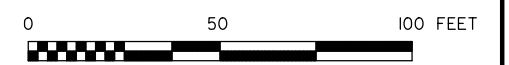
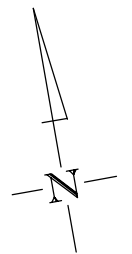
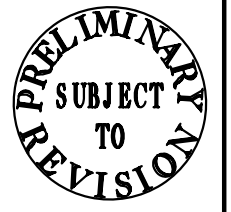
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				6	ARK.			
							2	
						JOB NO.	061454	
PLAN AND PROFILE SHEET								



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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061454			

2 SPECIAL DETAILS



C.L. CONSTRUCTION RIVERTRAIL
P.I. = 200+02.29
 $\Delta = 0^\circ 43' 40.5''$ RT.
 $D = 15^\circ 52' 11.7''$
 $T = 2.29'$
 $L = 4.59'$
PC = 200+00.00
PRC = 200+04.59

C.L. CONSTRUCTION RIVERTRAIL
P.I. = 200+38.58
 $\Delta = 19^\circ 17' 36.9''$ LT.
 $D = 28^\circ 38' 52.4''$
 $T = 34.00'$
 $L = 67.35'$
PRC = 200+04.59
PT = 200+71.93

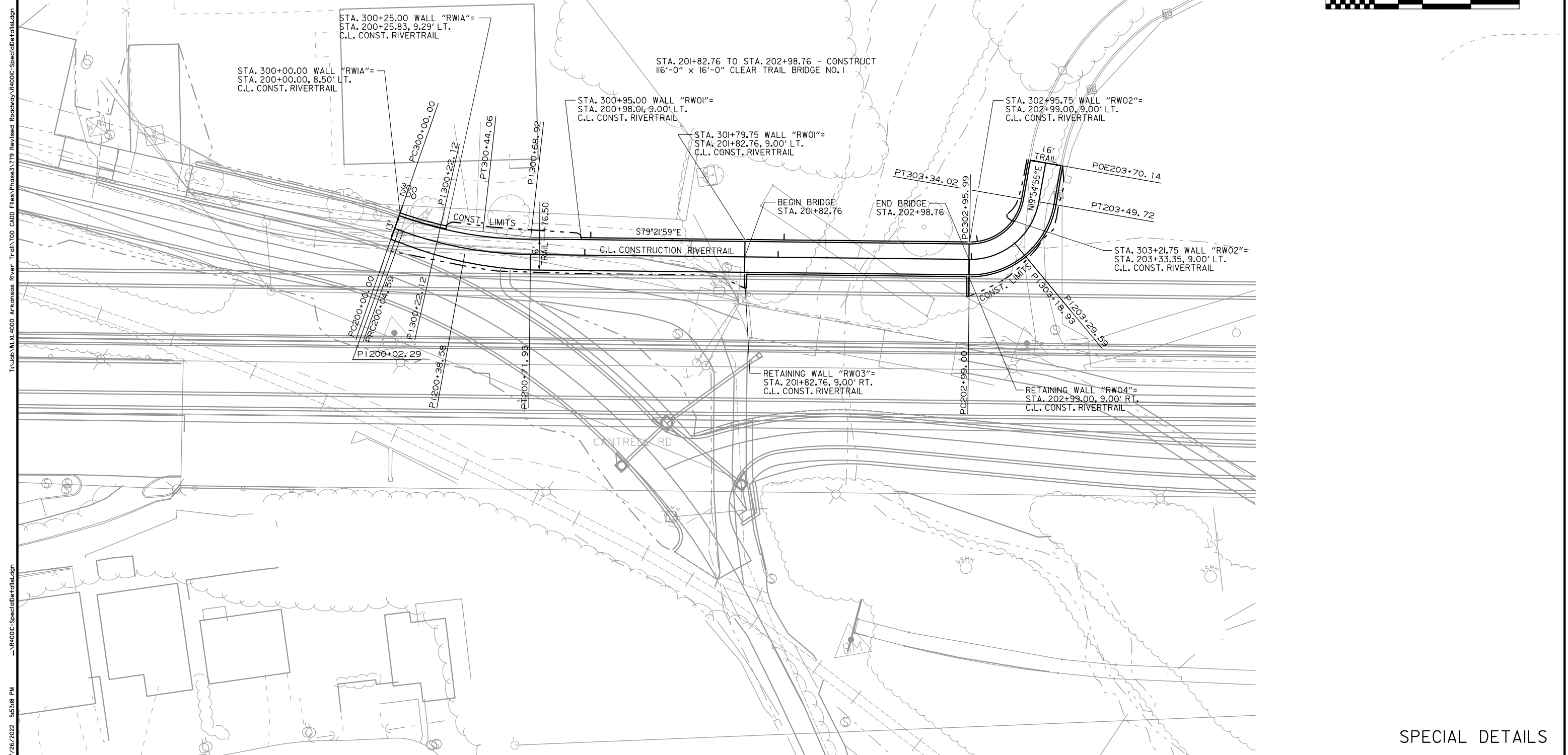
C.L. CONSTRUCTION RIVERTRAIL
P.I. = 203+29.59
 $\Delta = 80^\circ 43' 06.1''$ LT.
 $D = 159^\circ 09' 17.8''$
 $T = 30.59'$
 $L = 50.72'$
PC = 202+99.00
PT = 203+49.72

C.L. CONSTRUCTION WALLS "RW1A", "RW01" & "RW02"
P.I. = 300+22.12
 $\Delta = 12^\circ 46' 54.5''$ LT.
 $D = 29^\circ 00' 37.9''$
 $T = 22.12'$
 $L = 44.06'$

C.L. CONSTRUCTION WALLS "RW1A", "RW01" & "RW02"
P.I. = 300+68.92
 $\Delta = 5^\circ 47' 01.8''$ LT.

C.L. CONSTRUCTION WALLS "RW1A", "RW01" & "RW02"
P.I. = 303+18.93
 $\Delta = 80^\circ 43' 06.1''$ LT.
 $D = 212^\circ 12' 23.7''$
 $T = 22.95'$
 $L = 38.04'$

NOTE:
FOR RETAINING WALLS, SEE STANDARD DRAWING SI-2 & RETAINING WALL DETAILS.



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SPECIAL DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	061454	

ELECTRICAL LIGHTING DETAILS

LEGEND:

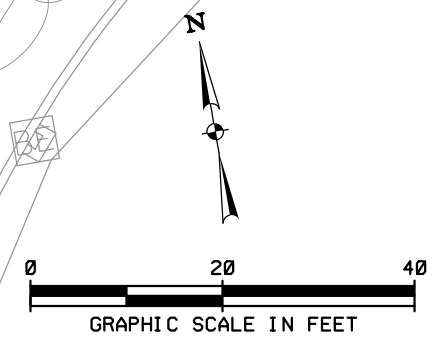
- LED TRAIL LIGHT FIXTURE
- ⊕ ELECTRICAL PULL BOX
- ▭ ELECTRICAL SERVICE
- ELECTRICAL PVC CONDUIT RUN
- - - ELECTRICAL RGS CONDUIT RUN
- # ELECTRICAL RUN NUMBER (REFER TO ELECTRICAL DETAILS SHEET FOR CHART)
- Ⓜ KEYED NOTE SYMBOL

GENERAL NOTES:

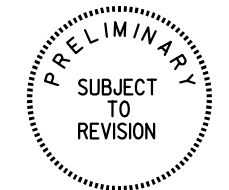
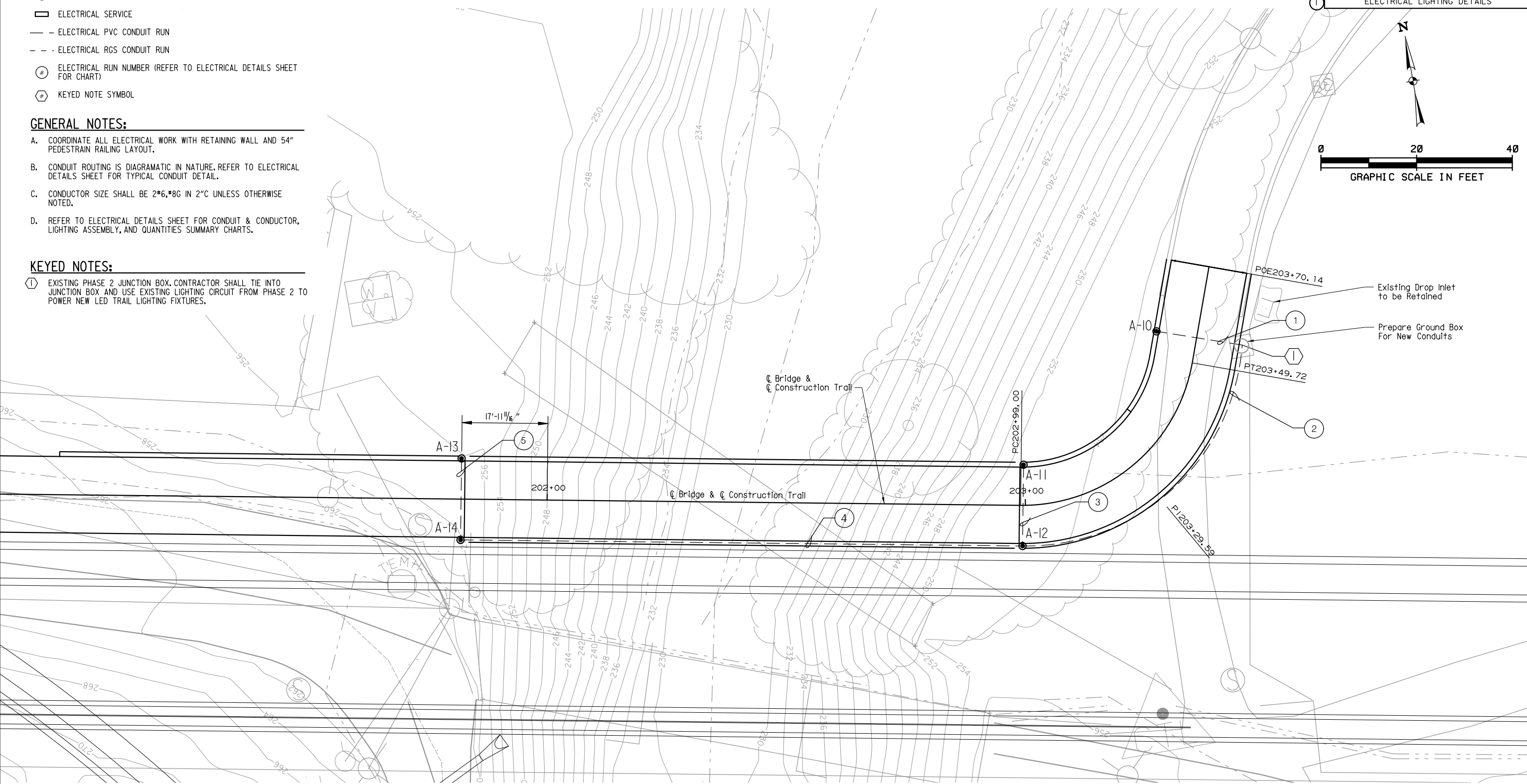
- A. COORDINATE ALL ELECTRICAL WORK WITH RETAINING WALL AND 54" PEDESTRAIN RAILING LAYOUT.
- B. CONDUIT ROUTING IS DIAGRAMATIC IN NATURE. REFER TO ELECTRICAL DETAILS SHEET FOR TYPICAL CONDUIT DETAIL.
- C. CONDUCTOR SIZE SHALL BE 2*6,*8G IN 2"C UNLESS OTHERWISE NOTED.
- D. REFER TO ELECTRICAL DETAILS SHEET FOR CONDUIT & CONDUCTOR, LIGHTING ASSEMBLY, AND QUANTITIES SUMMARY CHARTS.

KEYED NOTES:

- ① EXISTING PHASE 2 JUNCTION BOX, CONTRACTOR SHALL TIE INTO JUNCTION BOX AND USE EXISTING LIGHTING CIRCUIT FROM PHASE 2 TO POWER NEW LED TRAIL LIGHTING FIXTURES.



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ELECTRICAL LIGHTING DETAILS
HIGHWAY 10
 ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: RFR DATE: 08/27/2021 FILENAME: _____
 CHECKED BY: FML DATE: 08/27/2021
 DESIGNED BY: EJP DATE: 08/27/2021 SCALE: 1"=10'
 BRIDGE ENGINEER
 PRINT DATE: 7/26/2022

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061454			

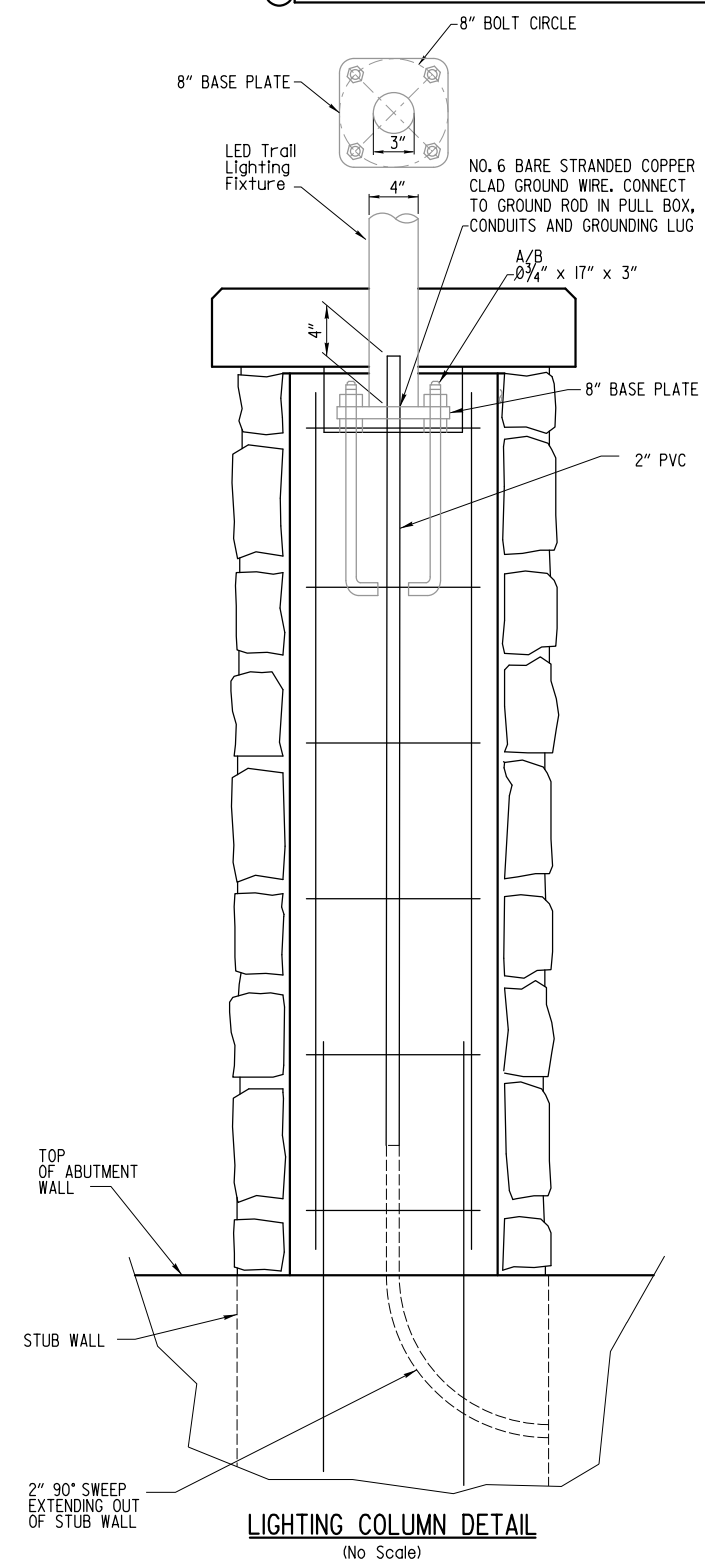
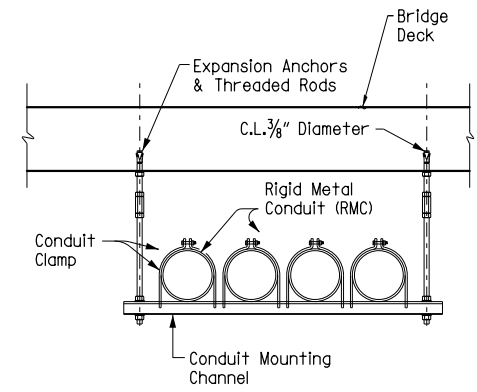
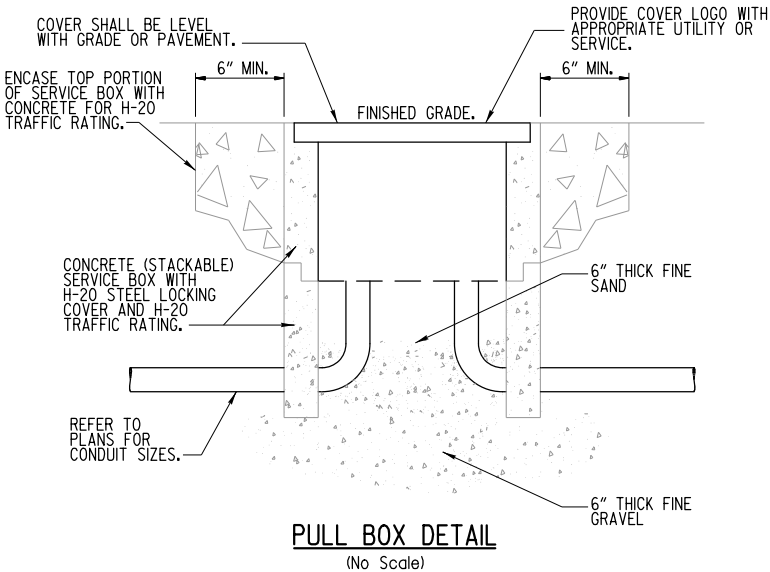
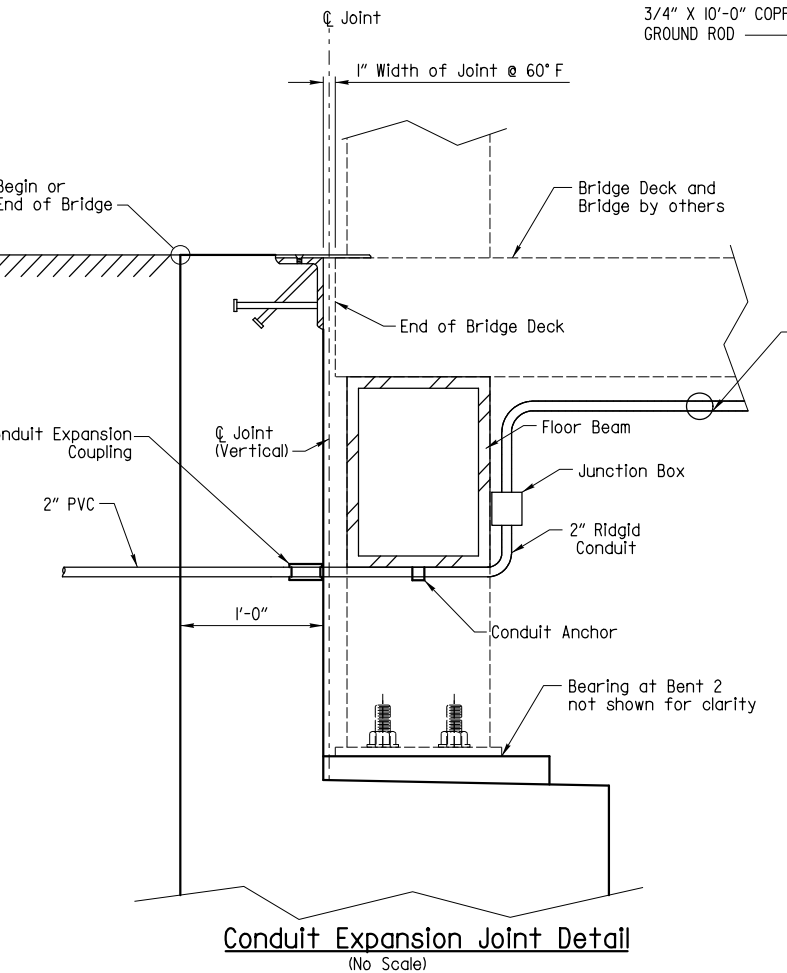
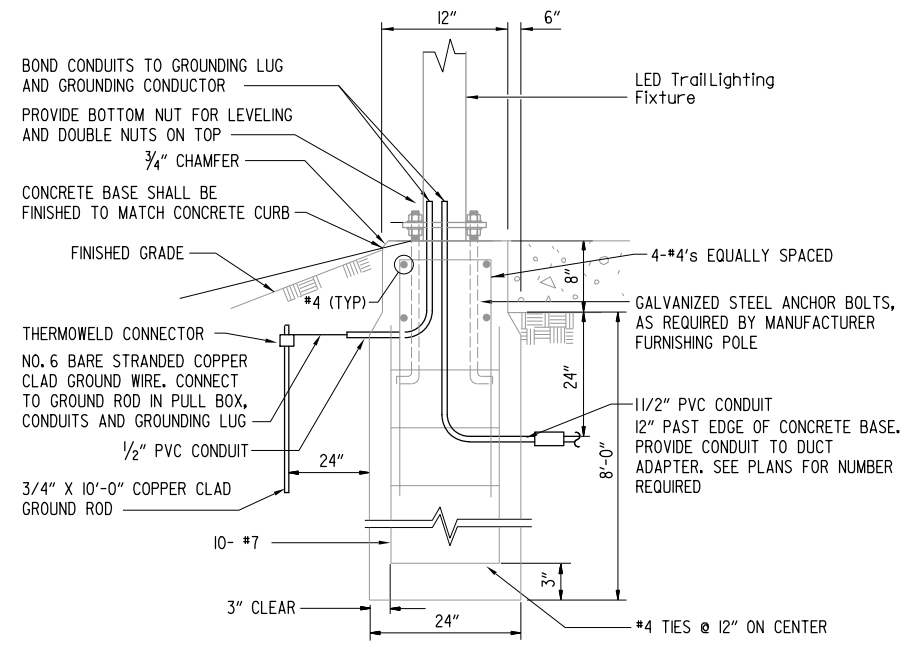
PHASE 2 LIGHTING ASSEMBLY SUMMARY					
LIGHT NO	LOCATION			TYPE	
	CENTERLINE	STATION	OFFSET		
A-10	TRAIL	203+55.09	10.0' LT	LED TRAIL LIGHTING FIXTURE (12' POLE)	
A-11	TRAIL	202+99.50	8.5' LT	LED TRAIL LIGHTING FIXTURE (6' POLE)	
A-12	TRAIL	202+99.50	8.5' RT	LED TRAIL LIGHTING FIXTURE (6' POLE)	
A-13	TRAIL	201+82.03	8.5' LT	LED TRAIL LIGHTING FIXTURE (6' POLE)	
A-14	TRAIL	201+82.03	8.5' RT	LED TRAIL LIGHTING FIXTURE (6' POLE)	

PHASE 2 ILLUMINATION SUMMARY OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	EST QUANTITY	
SP	LED TRAIL LIGHTING FIXTURE (12' POLE)	EA	1	
SP	LED TRAIL LIGHTING FIXTURE (6' POLE)	EA	4	
	UNDERGROUND PVC (2")	LF	135	
	RIGID GALVANIZED STEEL CONDUIT (2")	LF	120	
	CONDUCTORS-IN-CONDUIT (1C/8 AWG EGC)	LF	255	
	CONDUCTORS-IN-CONDUIT (1C/6 AWG)	LF	510	
	CONCRETE PULL BOX (TYPE I)	EA	0	
SP	SERVICE POINT ASSEMBLY (2 CIRCUITS)	EA	0	

ELECTRICAL SERVICE NO. 2 DATA (FUTURE PHASE 4)												
ELEC SERVICE NO.	SHEET NO.	ELECTRICAL SERVICE DESCRIPTION	SERVICE CONDUIT SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN CKT. BRK. POLE/AMP	TWO-POLE CONTACTOR AMPS	PANEL BD./LOADCENTER AMP RATING	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD	AMP LOAD
2	-	TY A(240/120)060(NS)SS(E)G(C)0	1-1/4"	3*6	N/A	2/60	60	N/A	C	2/20	-	SPARE
									D	2/20	-	SPARE

ELECTRICAL SERVICE NOTES:
 CONTRACTOR TO PROVIDE NEW SERVICES FROM EXISTING SERVICE LOCATION. ANY RE-CONNECTION AND OUTAGE WILL BE LIMITED TO DAY LIGHT HOURS. ENTERY POINT OF CONTACT: BRAD VANCE (501) 954-5162

PHASE I CONDUIT AND CONDUCTOR SUMMARY									
RUN #	GROUND LENGTH (FT)	CONDUCTOR				CONDUIT			
		#8 BARE	#6 XHHW	2" PVC SCH 40	2" RGS	QTY	LF	QTY	LF
1	25	1	25	2	25	1	25		
2	70	1	70	2	70	1	70		
3	20	1	20	2	20	1	20		
4	120	1	120	2	120			1	120
5	20	1	20	2	20	1	20		
TOTAL			255		510		135		120



PRELIMINARY
 SUBJECT TO REVISION

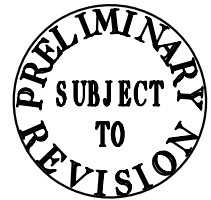
ELECTRICAL LIGHTING DETAILS
 HIGHWAY 10
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: RER DATE: 08/27/2021 FILENAME:
 CHECKED BY: FML DATE: 08/27/2021
 DESIGNED BY: EJP DATE: 08/27/2021 SCALE: NO SCALE

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061454		

② QUANTITIES



CONCRETE CURB (TYPE SPECIAL)

STATION	STATION	LOCATION	LIN. FT.
202+99	203+11	RT. OF C.L. CONSTRUCTION	12
203+11	203+70	RT. OF C.L. CONSTRUCTION	59
203+11	203+70	LT. OF C.L. CONSTRUCTION	59
TOTAL:			130

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	*SELECT GRANULAR BACKFILL
			CU. YD.		
200+00	201+82.76	C.L. CONSTRUCTION - APPROACH	61	39	
202+98.76	203+70	C.L. CONSTRUCTION - APPROACH	5	68	
ENTIRE PROJECT			TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.		1519
TOTALS:			66	107	1519

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.
 * QUANTITY ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.

RETAINING WALLS

STATION	STATION	LOCATION	CLASS S CONCRETE-ROADWAY	REINF. STEEL- ROADWAY (GRADE 60)	UNCL. EXC. FOR STR.-ROADWAY	ARCHITECTURAL FINISH	TEXTURED COATING FINISH	METAL BRIDGE RAILING (TYPE SPECIAL)
			CU.YDS.	POUNDS	CU.YDS.	SQ.FT.	SQ.YD.	LIN. FT.
300+00	300+25	WALL RW1A	9.28	1112	22	100	11	25
300+95	301+80	WALL RW01	46.31	6296	84	493	493	85
302+96	303+22	WALL RW02	10.87	1317	24	117	13	26
201+84		WALL RW03	2.06	280	5	17	2	6
202+98		WALL RW04	3.66	508	9	33	4	9
TOTALS:			72.18	9513	144	760	523	151

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2")			
				TON / STATION	TON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 64-22 TON
TRAIL									
200+00.00	200+76.50	C.L. CONSTRUCTION	76.50	56.50	43.17	14.50	123.33	220.00	13.57
200+76.50	201+82.76	C.L. CONSTRUCTION	106.26	62.25	66.15	16.00	188.91	220.00	20.78
202+98.76	203+70.14	C.L. CONSTRUCTION	71.38	62.25	44.43	16.00	126.90	220.00	13.96
TOTALS:					153.75		439.14		48.31

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....95.1% MIN. AGGR.....4.9% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

QUANTITIES

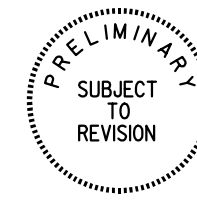
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08-25-2021				6	ARK.			
				JOB NO.		061454		
				TRAIL		QUANTITIES		65416

SCHEDULE OF BRIDGE QUANTITIES - JOB NO. 061454

BRIDGE NUMBER BRIDGE NAME PLATE TITLE	UNIT OF STRUCTURE	ITEM NO.	801	SS & 802	SP & 803	SS & 804	SS & 805	SS & 805	SS & 806	SS & 808	SS & 816	SS & 816	SP JOB 061454	SP JOB 061454
		ITEM	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGES	CLASS S CONCRETE-BRIDGE	CLASS 2 PROTECTIVE SURFACE TREATMENT	REINFORCING STEEL-BRIDGE (GRADE 60)	STEEL PILING (HP 14X73) ③	PREBORING	METAL BRIDGE RAILING (TYPE SPECIAL)	ELASTOMERIC BEARINGS	FILTER BLANKET	DUMPED RIPRAP	PREFABRICATED TRUSS SPAN	STONE VENEER
UNIT		CU. YD.	CU. YD.	SQ. YD.	LB.	LIN. FT.	LIN. FT.	LIN. FT.	CU. IN.	SQ. YD.	CU. YD.	EACH	SQ. FT.	
CAPITOL DRAIN	BENT NO. 1	27	10.80 ①	2.3	1282 ②	30	28	91		214	107		48	
	BENT NO. 2	32	10.80 ①	2.3	1282 ②	112	55	35		200	100		48	
	TRUSS SPAN			212.2				228	570			1		
TOTALS FOR BRIDGE NO. TRAIL		59	21.60	212.2	2564	142	83	354	570	414	207	1	96	

Notes:

- ① Includes .79 CU YD from Lighting Column.
- ② Includes 29.72 LB from Lighting Column.
- ③ All steel piling shall be Grade 50 and are required to have QPL approved driving points, which will not be paid for directly but will be considered subsidiary to the item "STEEL PILING (HP14x73)". All piles shall conform to Standard Drawing 55020.



BRIDGE ENGINEER
PRINT DATE: 7/26/2022

DRAWN BY: SP DATE: 08/26/2021 FILENAME: b061454.01.dgn
 CHECKED BY: BG DATE: 07/24/2022
 DESIGNED BY: MAA DATE: 07/24/2022 SCALE: No Scale
 BRIDGE NO. TRAIL DRAWING NO. 65416

SHEET 1 OF 3
 SCHEDULE OF BRIDGE QUANTITIES
 GILL ST. & RR OVERPASS
 STRS. & APPS. (S)
 PULASKI COUNTY
 ROUTE 10 SEC. 8
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061454								
1 TRAIL RETAINING WALLS RWIA & RWOI								65419



RETAINING WALL GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 edition) with applicable supplemental specifications

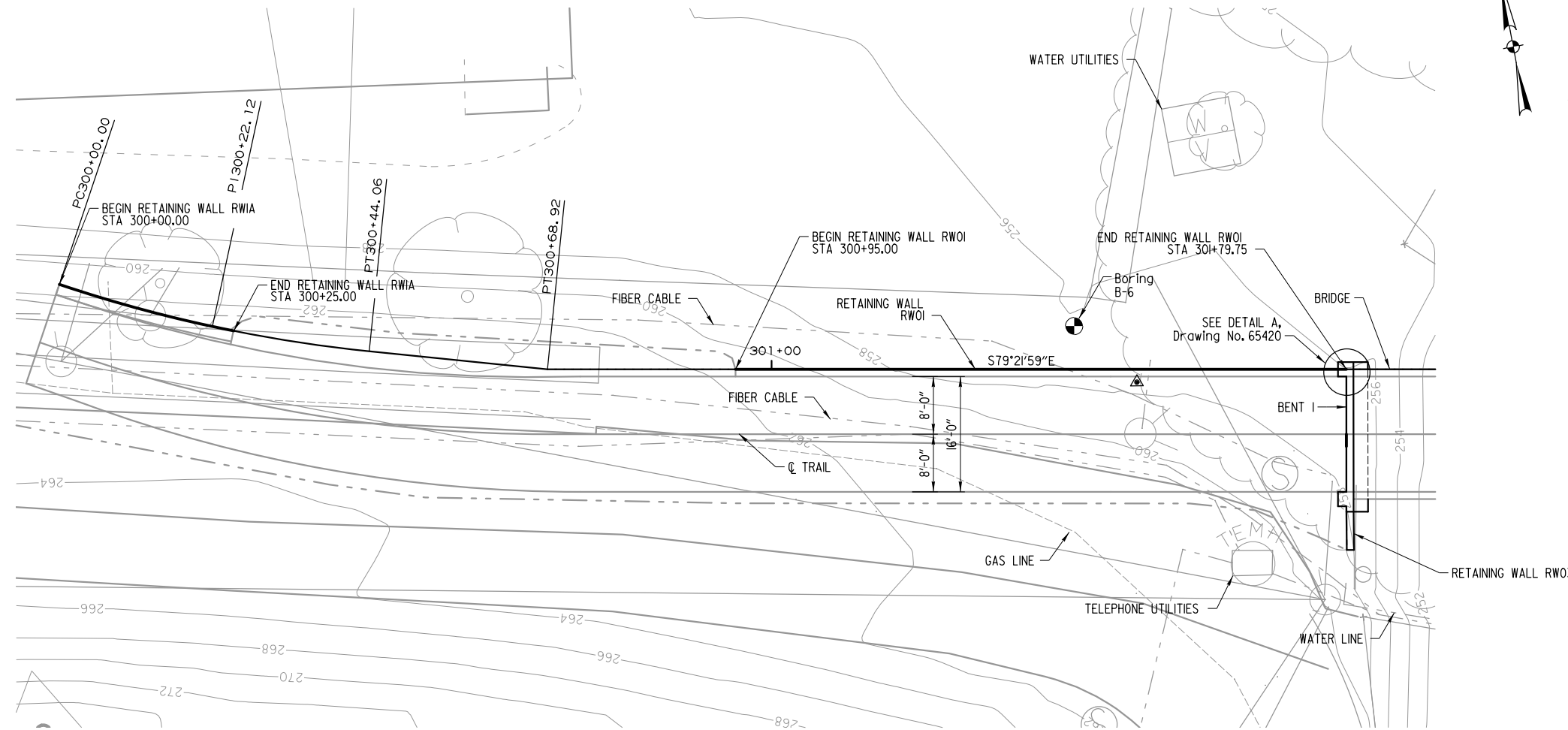
DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications (7th Edition) with current Interim specifications.

SEISMIC ZONE: I

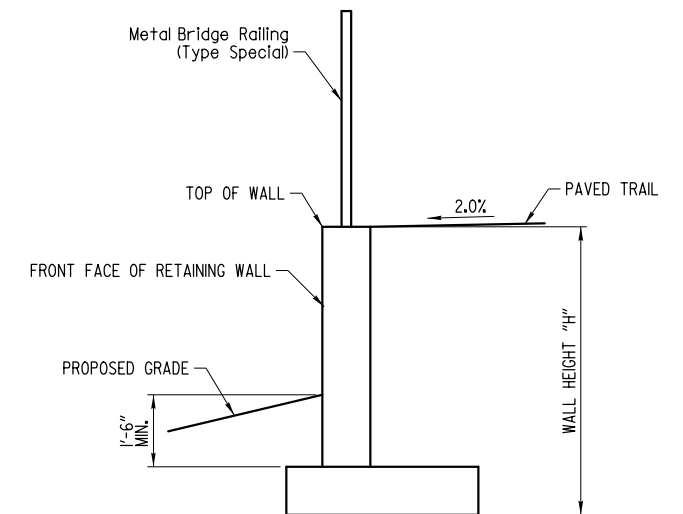
BORING LOGS: See Sheet "Boring Locations and Logs", Drawing No. 65422

CAST-IN-PLACE CONCRETE RETAINING WALL: For retaining walls, see Standard Drawing SI-2. As a minimum, top of retaining wall footing should be 1'-6" below proposed grade at the front face of retaining wall. See Standard Drawing SI-2 for other notes pertaining to retaining walls.

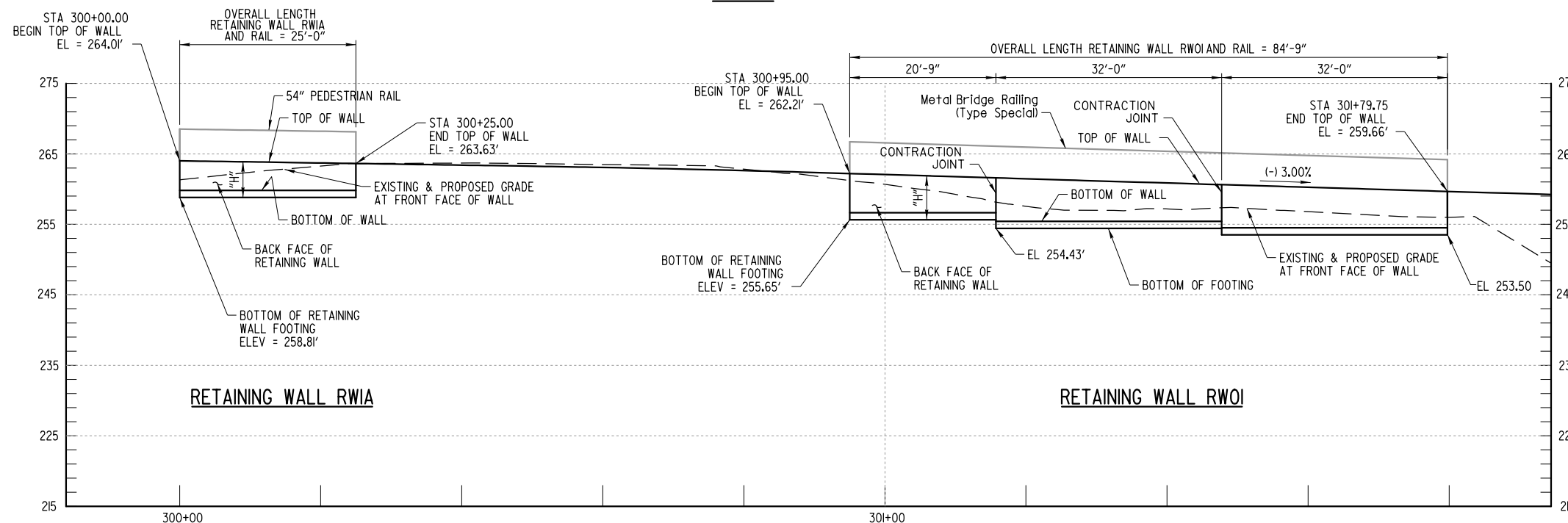
LIVE LOAD SURCHARGE FOR RETAINING WALLS: 90 PSF live load is to be included when selecting retaining wall variables from Standard Drawing SI-2. Add 1ft to the wall height "H".



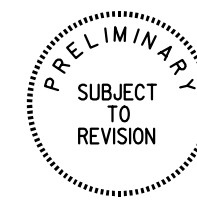
PLAN



TYPICAL SECTION



ELEVATION

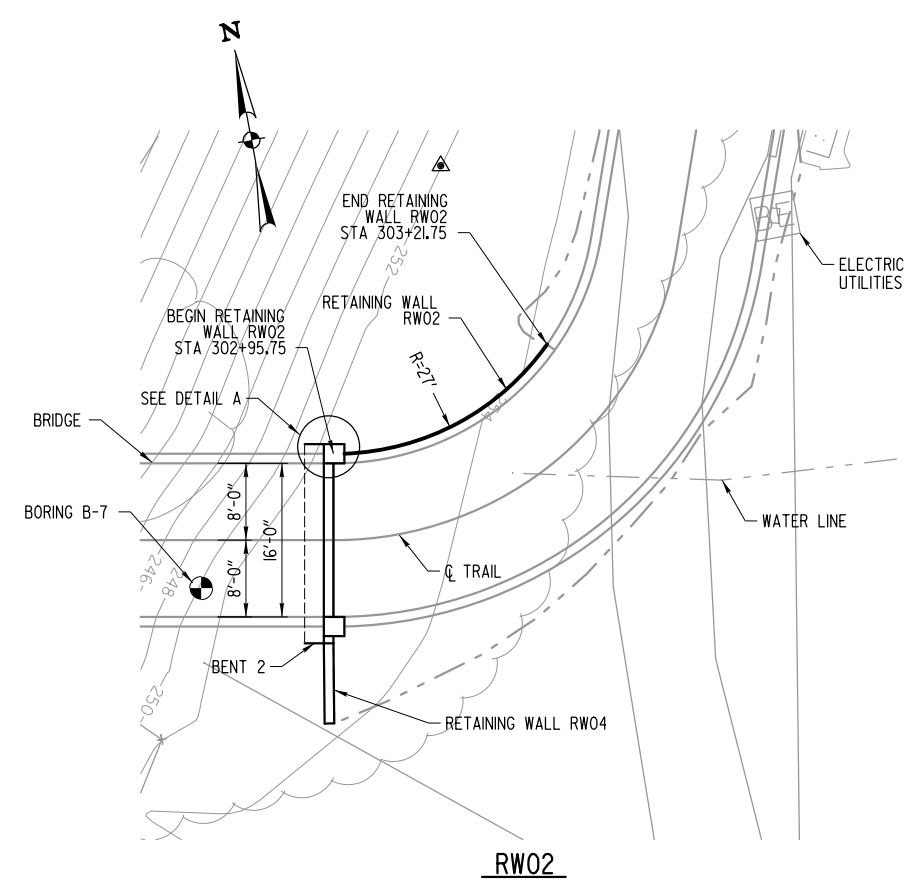


LAYOUT OF RETAINING WALLS RWIA & RWOI
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

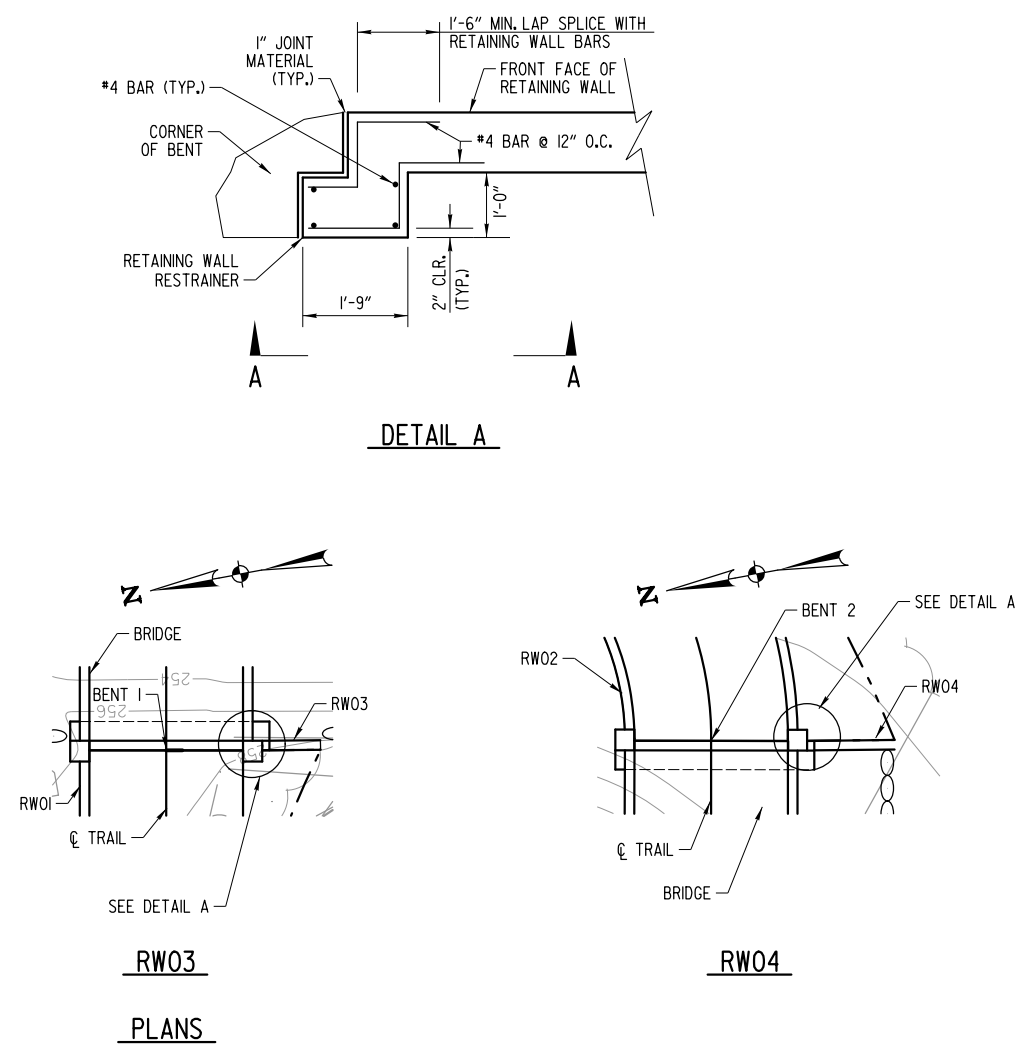
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 BRIDGE NO. TRAIL BRIDGE ENGINEER PRINT DATE: 7/26/2022 DRAWING NO. 65419

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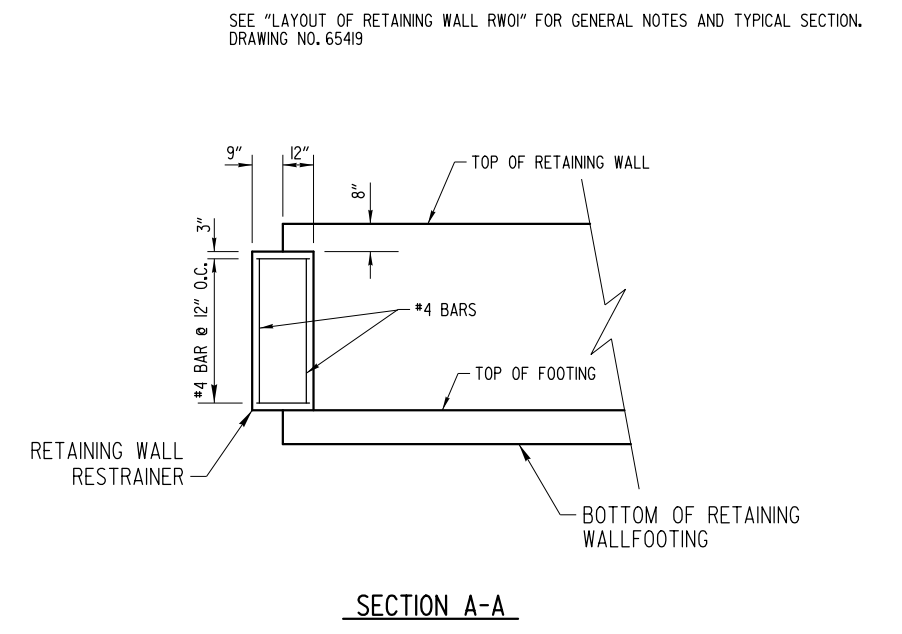
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				JOB NO. 061454				
				1 TRAIL RETAINING WALLS RW02-04				65420



RW02

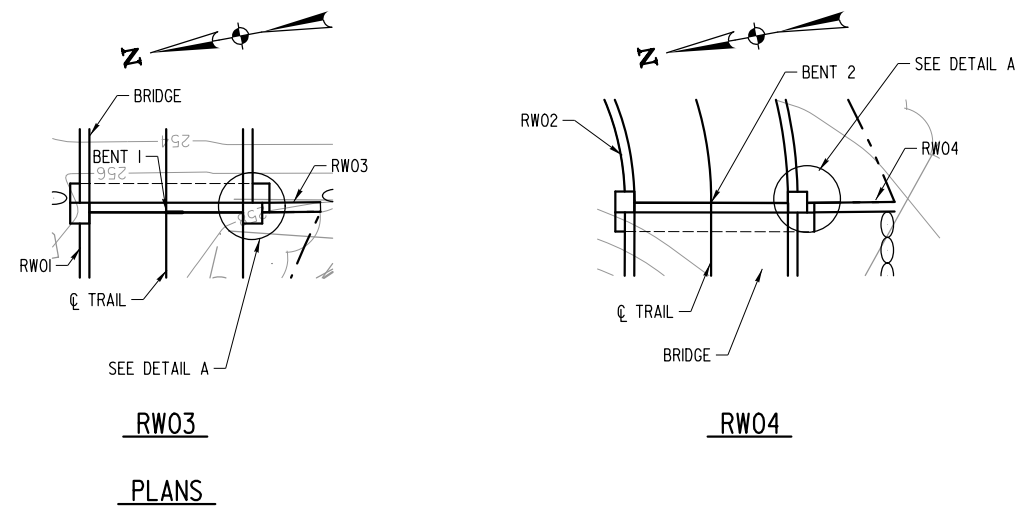


DETAIL A



SECTION A-A

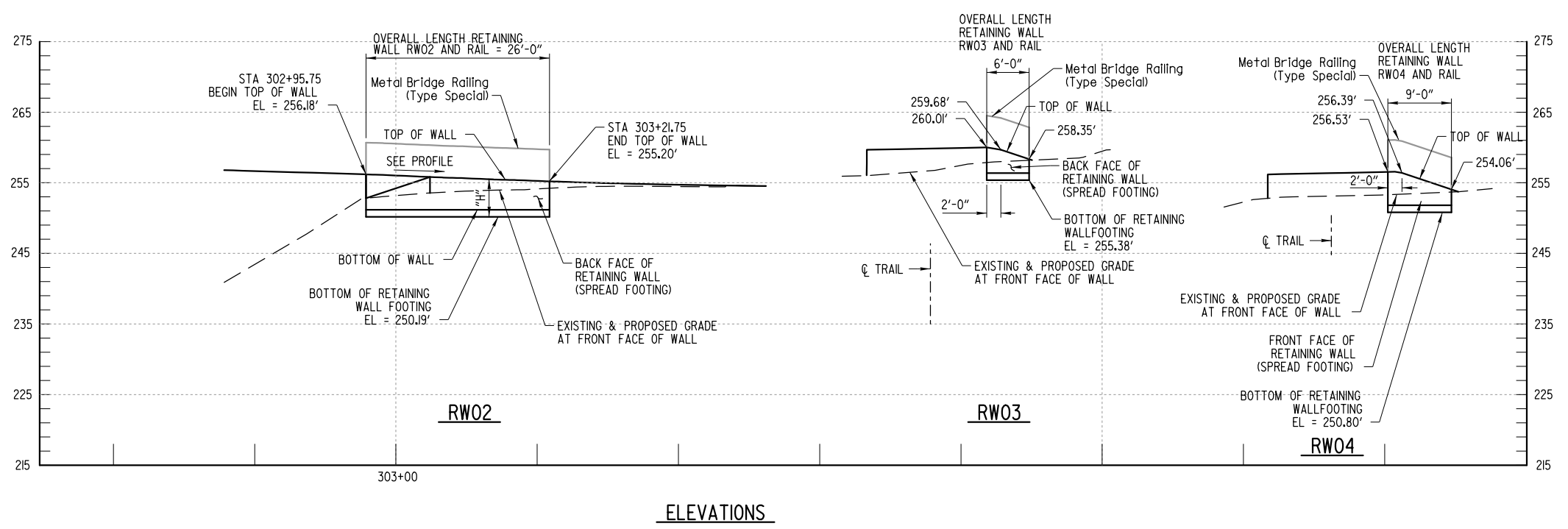
SEE "LAYOUT OF RETAINING WALL RW01" FOR GENERAL NOTES AND TYPICAL SECTION. DRAWING NO. 65419



RW03

RW04

PLANS



ELEVATIONS

PRELIMINARY
SUBJECT TO REVISION

LAYOUT OF RETAINING WALLS RW02-04
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: SP DATE: 08/26/2021 FILENAME: _____
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				6	ARK.			
				JOB NO.	061454			
				TRAIL	LAYOUT OF BRIDGE		65421	

GENERAL NOTES

BENCH MARKS:

5/8" Rebar 7.22' Left of CL Construction Trail
Sta. 201+53.70, Elev. 257.68'

5/8" Rebar 25.68' Left of CL Construction Trail
Sta. 203+54.49, Elev. 253.03'

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable supplemental specifications and special provisions. Unless otherwise noted in the plans, section and subsection numbers refer to the Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications (8th Edition) & LRFD Guide Specifications for the Design of Pedestrian Bridges (2nd Edition).

LIVE LOADING: 90 psf Pedestrian Live Load or H-10 Maintenance Vehicle

SEISMIC ZONE: I $S_D = 0.09g$ Site Class = B

MATERIALS AND STRENGTHS:
 Class S (AE) Concrete (superstructure) $f'c = 4000$ psi
 Class S Concrete (substructure) $f'c = 3500$ psi
 Reinforcing Steel (AASHTO M31 or M53, Gr. 60) $f_y = 60,000$ psi
 Structural Steel (AASHTO M270, Gr. 50W) $f_y = 50,000$ psi
 Structural Steel (AASHTO M270, Gr. 36) $f_y = 36,000$ psi

BORING LOGS: See Boring Location and Logs, See Drawing No. 65422

BRIDGE DECK: The Concrete bridge deck shall be given broom finish as specified for final finishing in subsection 802.19 for Class 6 Brommed Finish.

PROTECTIVE SURFACE TREATMENT: Class 2 Protective Surface Treatment shall be applied to deck surface and top of backwalls as required in the details. Class 2 Protective Surface Treatment shall meet the requirements of Section 803.

STEEL PILING: All piling shall be HP 14x73 and shall be driven with an approved air, steam, or diesel hammer to minimum safe bearing capacity of 77 tons per pile. The Contractor shall use approved steel H-Pile driving points on all piles. At Bent 1 all piles shall be driven into the material designated as medium hard sandstone on the boring logs. At Bent 2 all piles shall be driven into the material designated as medium soft shale on the boring logs. Lengths of piling shown are assumed for estimating quantities and for use in determining payment for cut-off and build-up in accordance with Section 805.

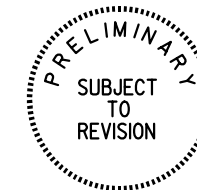
PREBORING: Preboring is required for all piles in Bents 1. The depth of preboring shall be to a minimum 3' depth into material designated as medium soft weathered shale on the boring legend. The actual size and depth of preboring shall be determined in the field by the Engineer. The Contractor shall be responsible for keeping prebored holes free of debris prior to driving piles and backfilling which may require the use of temporary casings or other approved methods. After driving is completed, the prebored hole shall be backfilled with Class S Concrete to the top of the rock and the remaining length backfilled in accordance with Subsection 805.08(a). Any related cost for backfilling and temporary casing will not be paid for directly, but shall be considered subsidiary to the item "Preboring".

MAINTENANCE OF TRAFFIC: See Roadway Plans.

HYDRAULIC DATA: See Drawing No. 65437

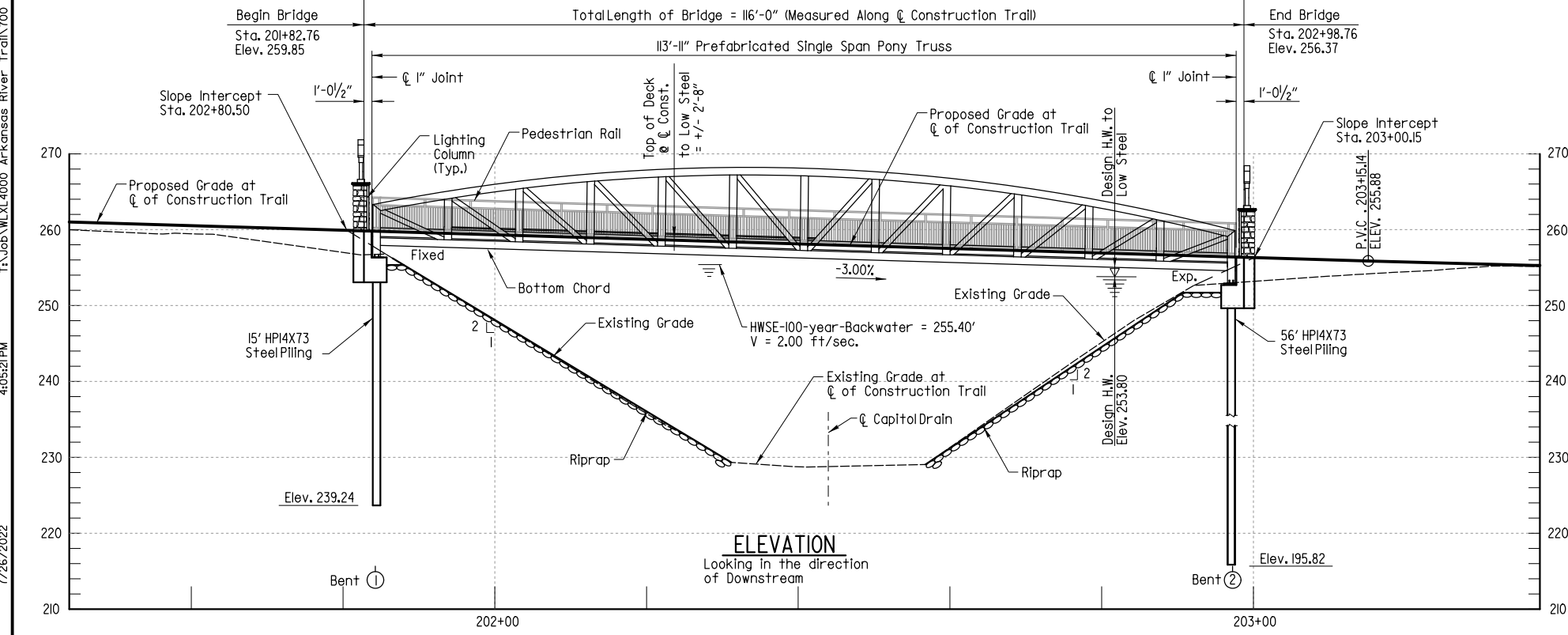
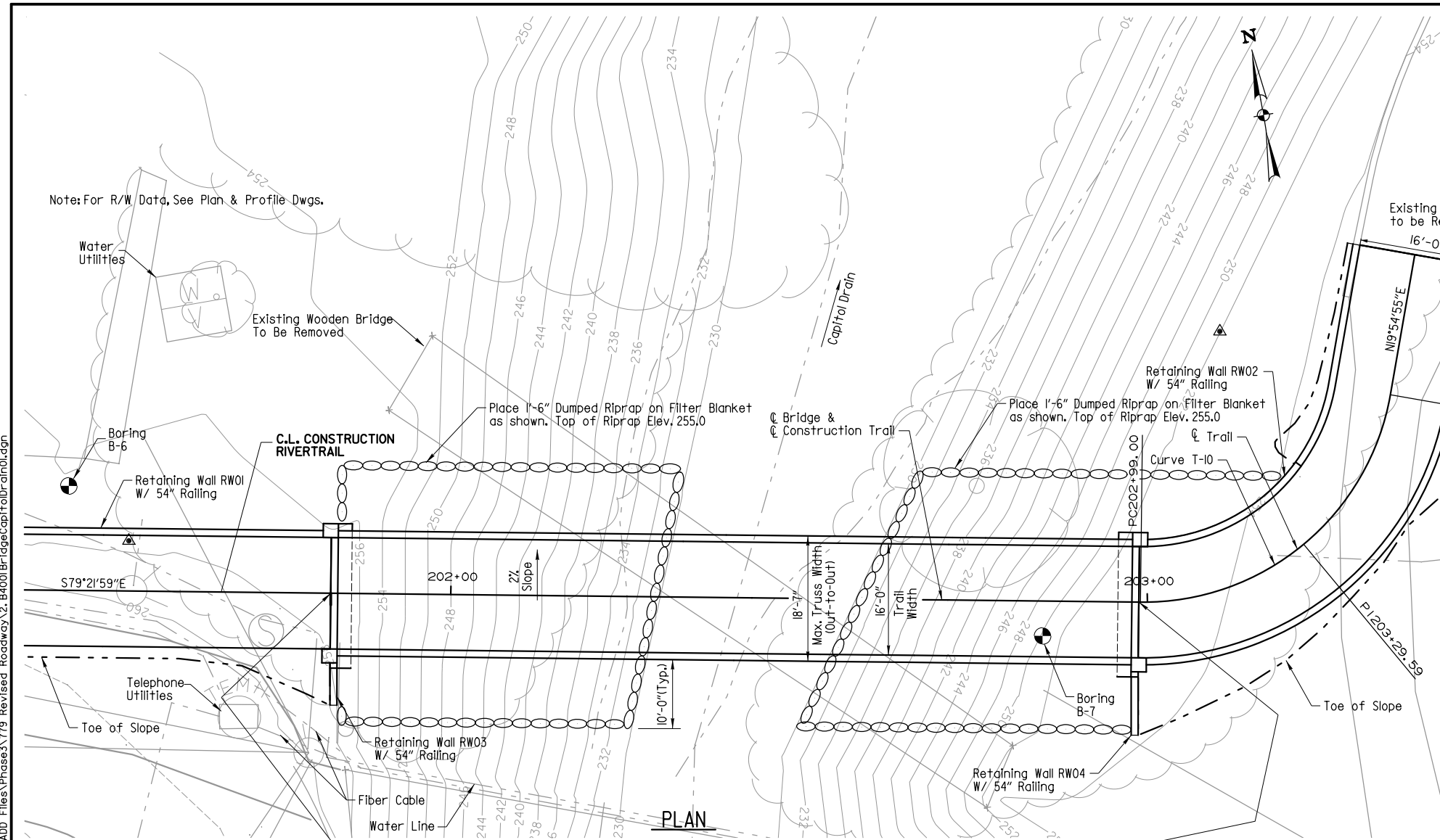
DETAIL DRAWINGS:	DRAWING NO.
Boring Location and Logs	65422
Substructure Details	65423-65424
Superstructure Details	65425-65426
Elastomeric Bearings	65427
Pedestrian Railing	65428

CL CONSTRUCTION TRAIL HORIZONTAL CURVE DATA	
T-10	
PI 203+29.59	
R 36.00	
D 159°09'18"	
L 50.72	
Delta 80°43'06"	
T 30.59	



LAYOUT OF BRIDGE
 ARKANSAS RIVER TRAIL
 OVER CAPITOL DRAIN
 GILL ST. & RR OVERPASS
 STRS. & APPRS. (S)
 PULASKI COUNTY
 ROUTE 10 SEC. 8
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

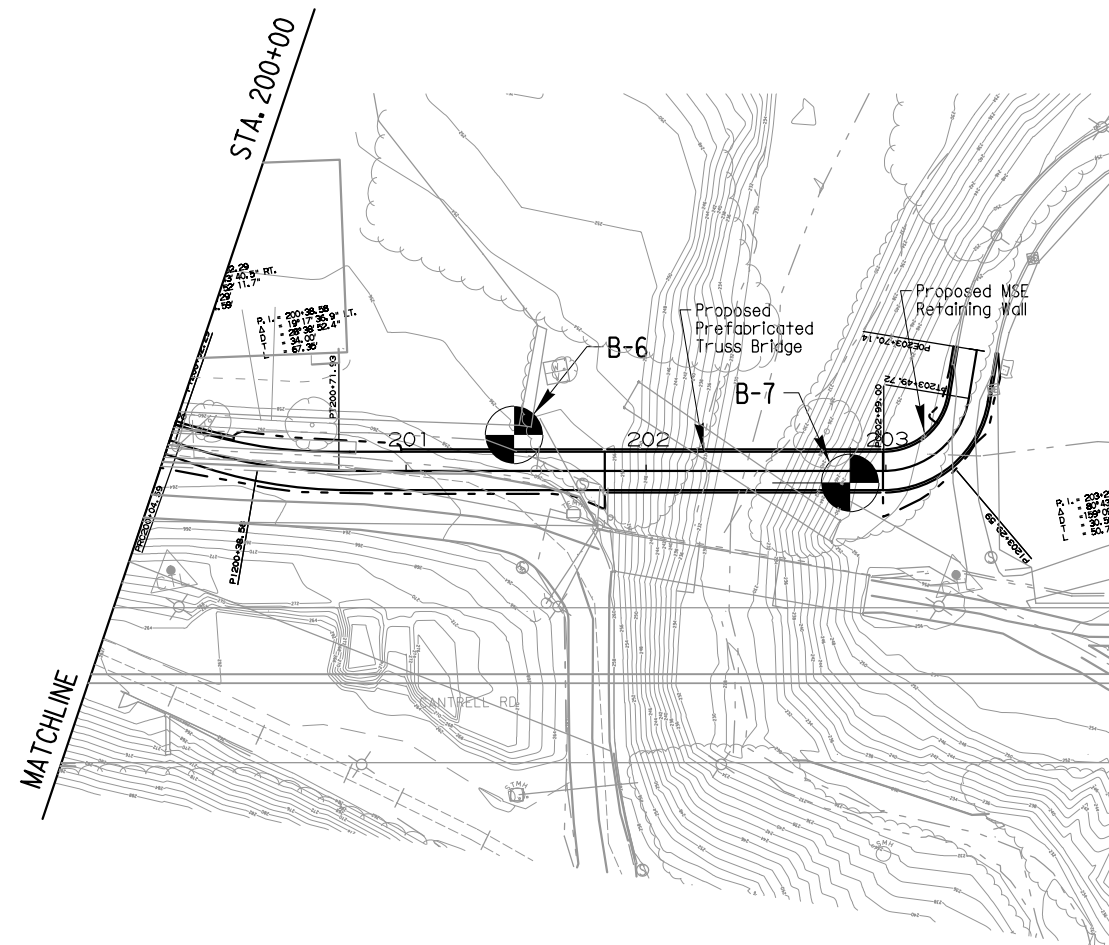
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 BRIDGE NO. TRAIL DRAWING NO. 65421



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				6	ARK.			
						JOB NO. 061454		
(1) TRAIL BORING LOCATIONS & LOGS								65422

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LEGEND
 Borings of this study (GHBW 08-099)

08-099
Grubbs, Hoskyn, Barton & Wyatt, Inc.
 Consulting Engineers
LOG OF BORING NO. 6
 Little Rock Bike Connector(s)
 Little Rock, Pulaski County, Arkansas

TYPE: Auger to 7.5 ft / Wash LOCATION: STA 201+45.00, 15 ft LT

DEPTH, FT	SYMBOL	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT			- No. 200 % Recovery	% RQD
					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
		SURF. EL: 257±							
0		3 inches: Asphalt Concrete	36						
0		27 inches: Crushed Stone Base	30						
5		Very stiff dark gray silty clay and shale fragments (fill)	41						22
10		Very soft tan, gray and dark gray highly weathered shale w/very thinly bedded sandstone seams - soft, less weathered below 6 ft	50/6"						
15		- auger refusal at 7.5 ft	25/0"						
20		Medium soft dark gray and tan weathered shale - hard fine-grained sandstone layer at 11.5 - 12 ft	25/0"						80 0
25		Medium hard gray fine-grained sandstone w/very thinly bedded dark gray shale seams and layers, dip ~45°, ferrous stains in very close fractures	25/0"						
30		- shale layer at 25 ft	25/0"						
35		- shale layer at 31 ft	25/0"						
40		- shale layer at 35 ft	25/0"						
45			25/0"						
50			25/0"						
55			25/0"						

COMPLETION DEPTH: 50.0 ft DEPTH TO WATER IN BORING: Dry to 7.5 ft DATE: 10/14/2011

PLATE 3

08-099
Grubbs, Hoskyn, Barton & Wyatt, Inc.
 Consulting Engineers
LOG OF BORING NO. 7
 Little Rock Bike Connector(s)
 Little Rock, Pulaski County, Arkansas

TYPE: Auger to 30 ft / Wash LOCATION: STA 202+85.00, 5 ft RT

DEPTH, FT	SYMBOL	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT			- No. 200 %
					PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT	
		SURF. EL: 254±						
0		Stiff to very stiff brown and reddish brown silty clay w/sandstone fragments (fill)	30					67
5		Medium dense brown fine sandy silt w/occasional shale and sandstone fragments (fill)	24					
10		Medium dense brown silt w/silty fine sand pockets, slightly clayey - loose below 9 ft	13					98
15		- moist below 15 ft	9					
20		- medium dense at 18-22 ft - water at 20 ft - loose below 22 ft	9					
25		- with silty fine sand seams below 25 ft	11					
30		Dense brown fine sandy silt	7					
35		- silty clay seams at 34 to 38 ft	44					53
40			43					
45		Medium dense dark brown fine sandy silt	24					89
50		Very stiff gray and tan clay	44					
55		Dense gray and tan clayey fine to coarse gravel	50/10"					
60		Medium soft dark gray and tan weathered shale w/very thinly bedded sandstone seams	25/0"					
65		Medium soft to medium hard dark gray shale w/very thinly bedded fine-grained sandstone seams	25/0"					
70			25/0"					
75			25/0"					

COMPLETION DEPTH: 75.0 ft DEPTH TO WATER IN BORING: 20 ft DATE: 10/12/2011

PLATE 4

PRELIMINARY
 SUBJECT TO REVISION

BORING LOCATIONS & LOGS
 AR RIVER TRAIL
 OVER CAPITOL DRAIN
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

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JOB NO. O61454								
TRAIL SUBSTRUCTURE DETAILS BENT I							65423	

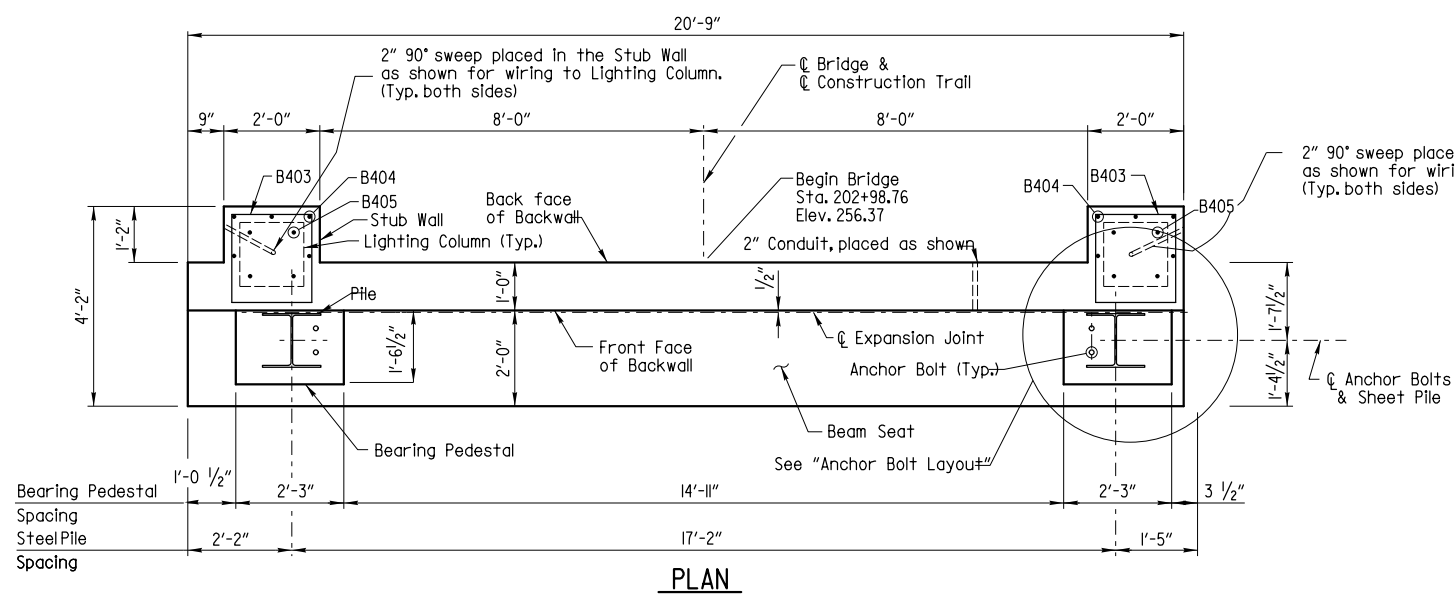
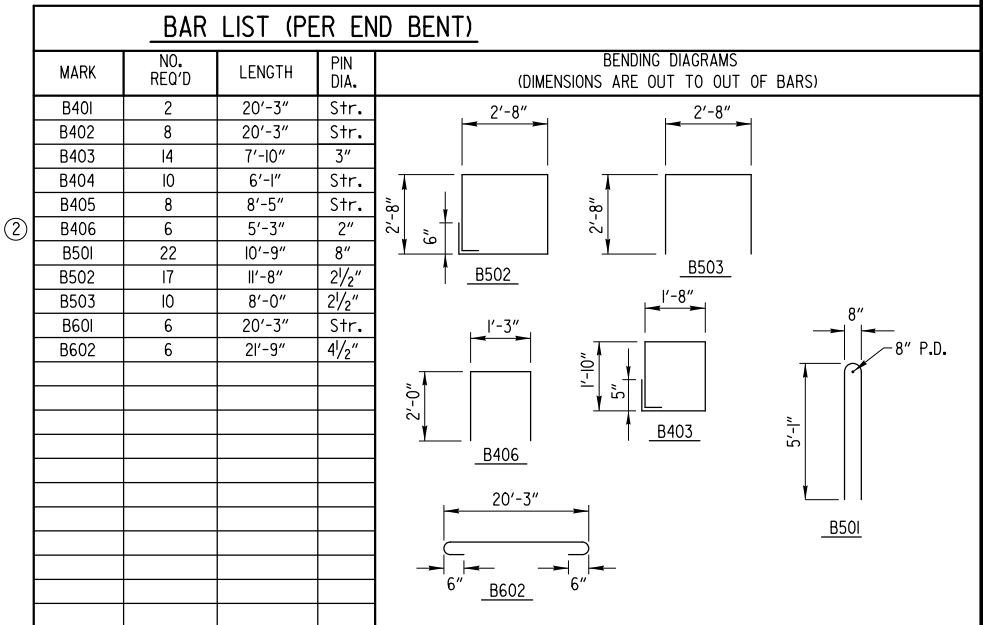


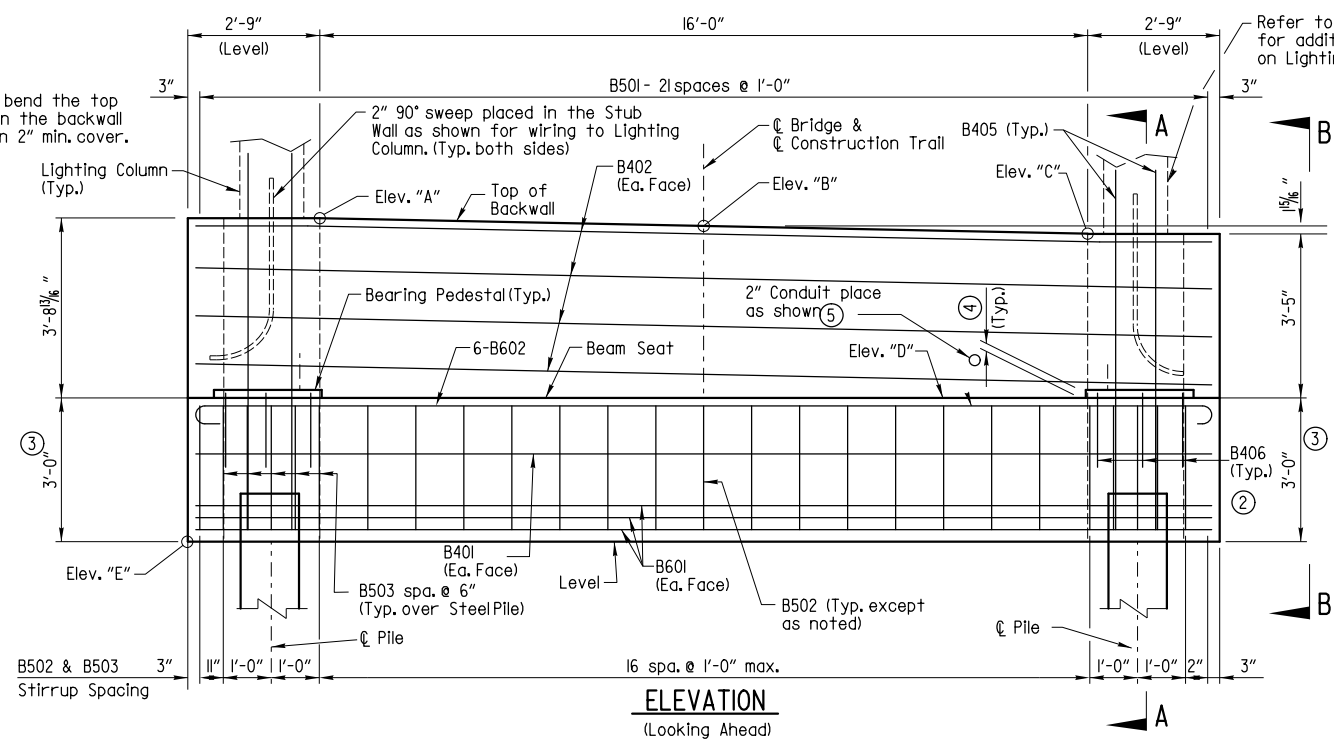
TABLE OF ELEVATIONS

Bent No. 1	Elevation
Elev. "A"	259.98
Elev. "B"	259.82
Elev. "C"	259.66
Elev. "D"	256.24
Elev. "E"	253.24

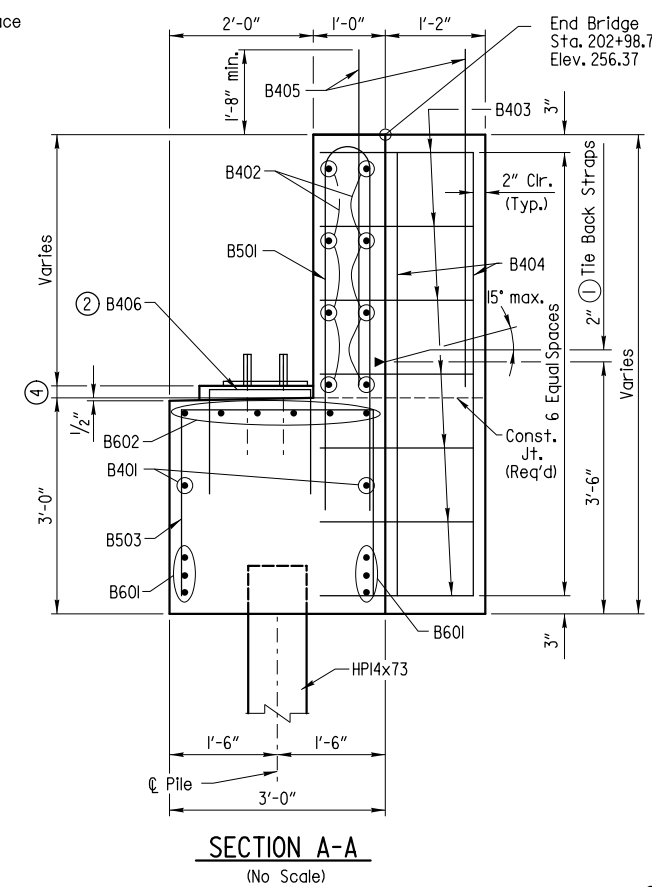
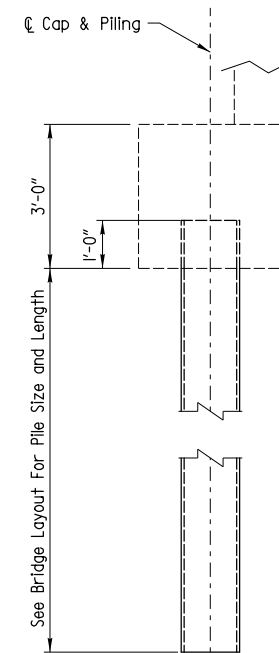
Elevations are at front face of backwall



Note: Field bend the top two B402 in the backwall to maintain 2" min. cover.



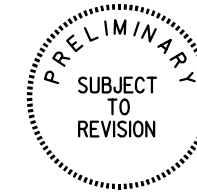
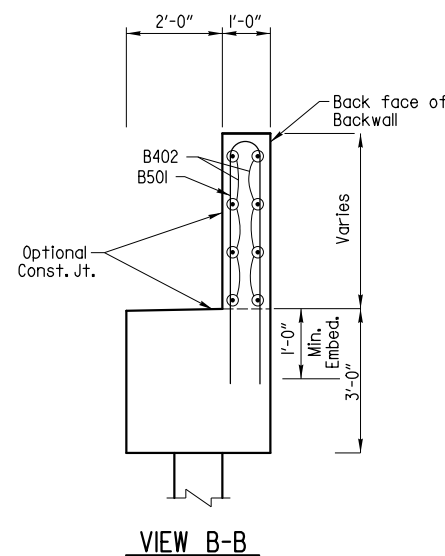
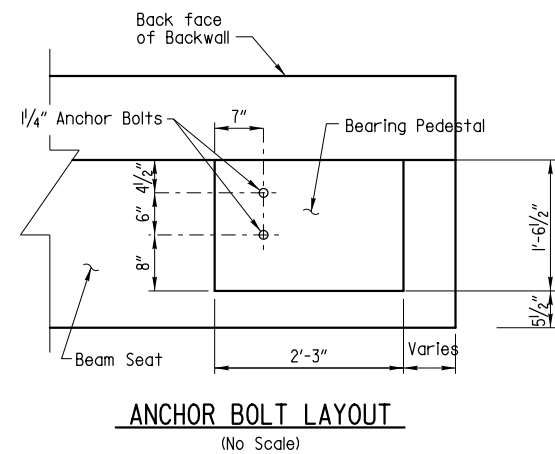
- ③ Dimensions shown are at the front face of backwall.
- ④ Contractor shall determine dimension conforms with prefabricated truss requirements prior to constructing Beam Seat.
- ⑤ Align top of Conduit with bottom of truss floor beams.



- ① Provide Tie Back Straps and reinforcing strips to resist a factored design force of 3.3 kip/ft for Strength and 2.6 kip/ft for Service.
- ② B406 bars required only when Bearing Pedestal exceeds 3" in height.

GENERAL NOTES

All concrete shall be Class "S" with a 28-day Compressive strength $f'c=3,500$ psi.
 Concrete shall be poured in the dry and exposed corners shall be chamfered 3/4" unless otherwise noted.
 If anchor bolts are drilled into cap, top reinforcing bars shall be properly placed to avoid damage.
 All reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 ($f_y = 60,000$ psi)
 No portion of the Backwall shall be poured before the truss spans are in place
 Class 2 Protective Surface Treatment shall be applied to the top of the backwall and curtain wall except at Lighting Column locations.
 For additional information see layout.



**SUBSTRUCTURE DETAILS BENT I
 AR RIVER TRAIL
 OVER CAPITOL DRAIN
 ROUTE SEC.
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.**

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				6	ARK.			
JOB NO. 061454								
① TRAIL SUBSTRUCTURE DETAILS BENT 2							65424	

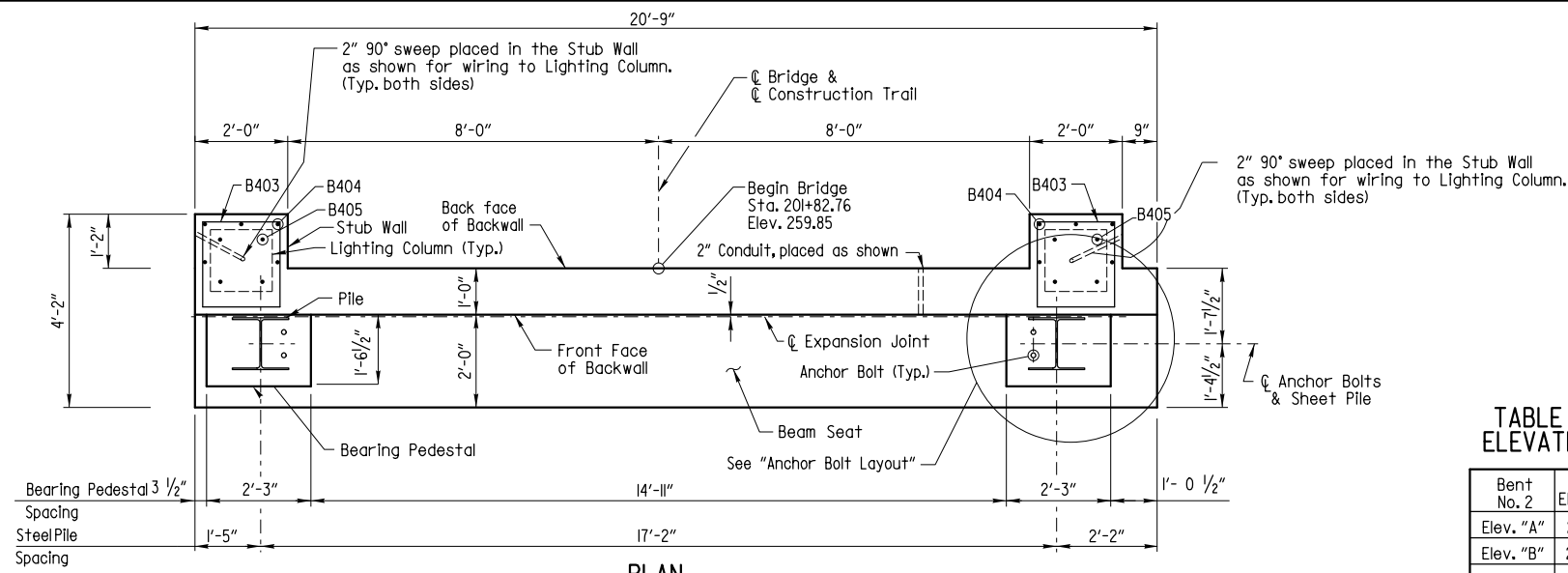
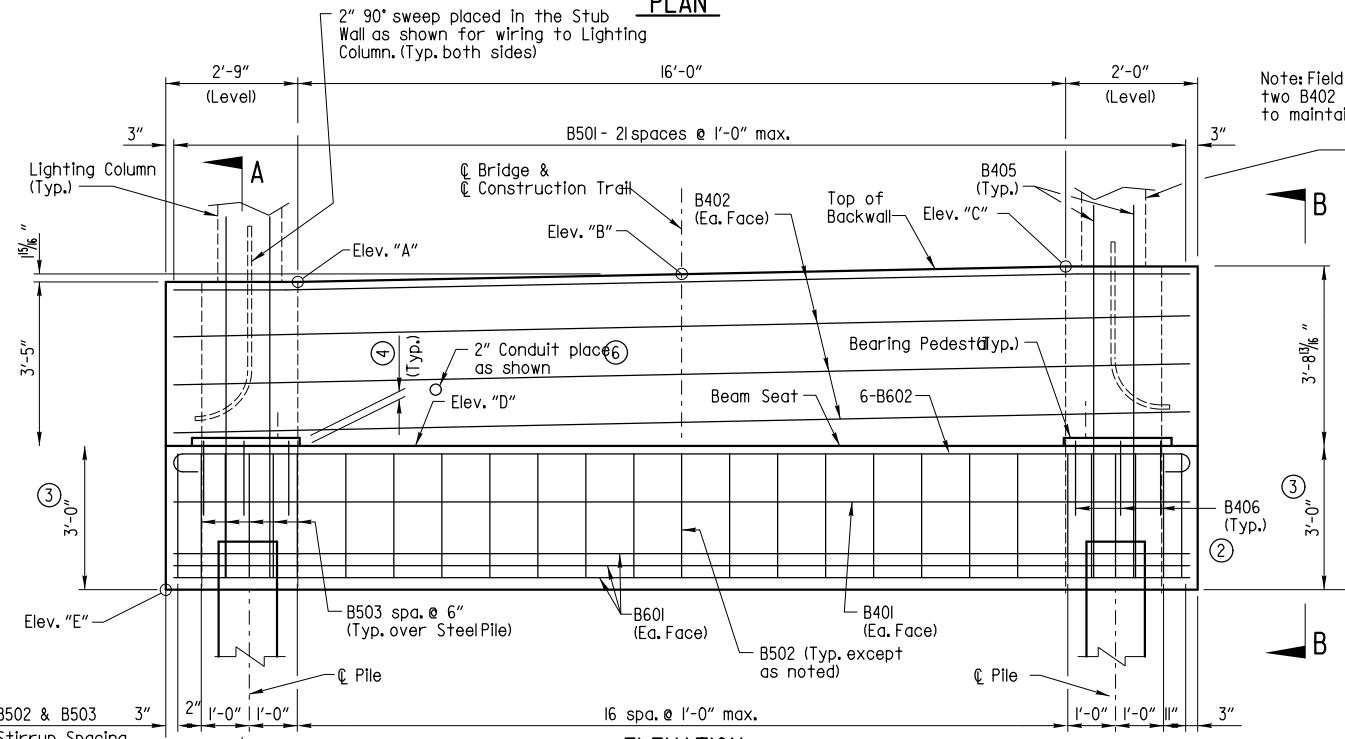
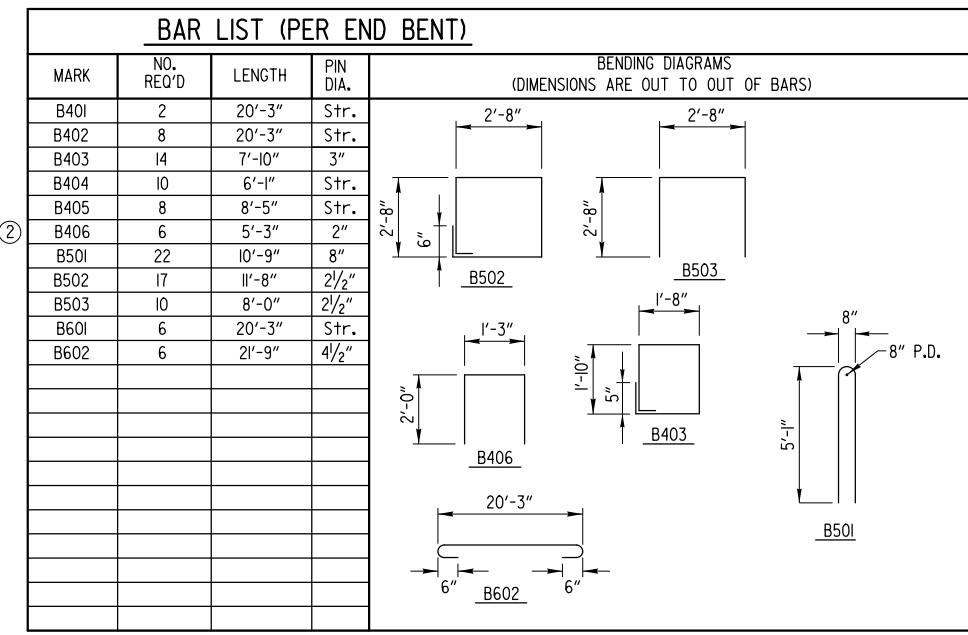


TABLE OF ELEVATIONS

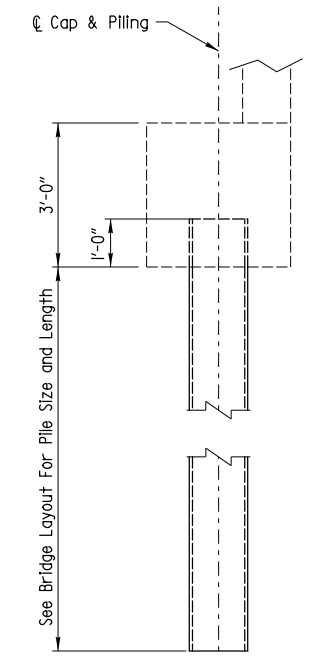
Bent No. 2	Elevation
Elev. "A"	256.24
Elev. "B"	256.40
Elev. "C"	256.56
Elev. "D"	253.82
Elev. "E"	249.82

Elevations are at front face of backwall



Note: Field bend the top two B402 in the backwall to maintain 2" min. cover.
Refer to Sheet 10 for additional information on Lighting Columns.

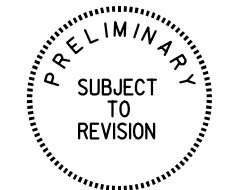
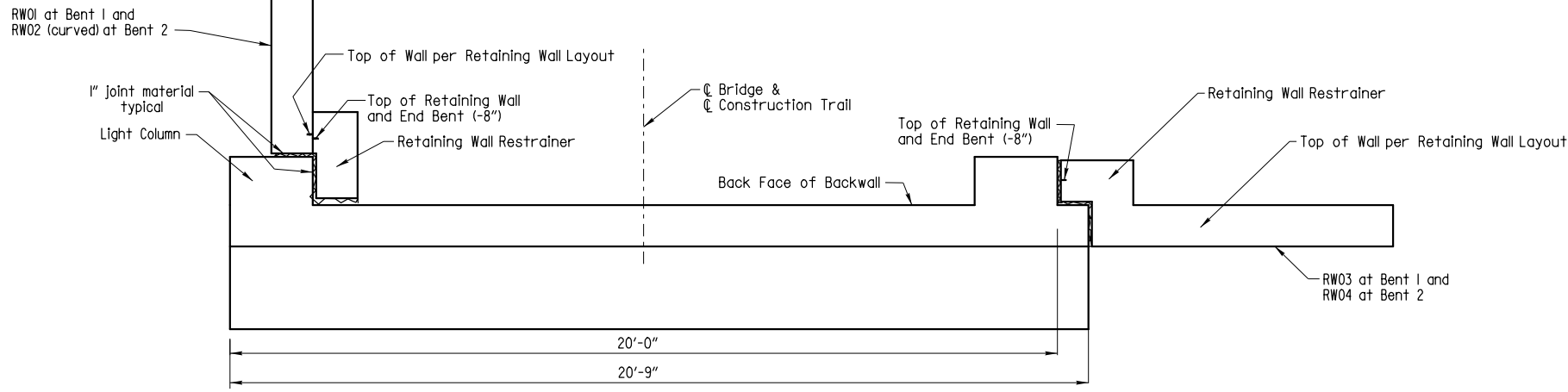
- ③ Dimensions shown are at the front face of backwall.
- ④ Contractor shall determine dimension conforms with prefabricated truss requirements prior to constructing Beam Seat.
- ⑤ Align top of Conduit with bottom of truss floor beams.



- ① Provide Tie Back Straps and reinforcing strips to resist a factored design force of 3.3 kip/ft for Strength and 2.6 kip/ft for Service.
- ② B406 bars required only when Bearing Pedestal exceeds 3" in height.

GENERAL NOTES

All concrete shall be Class "S" with a 28-day Compressive strength $f'_c=3,500$ psi.
Concrete shall be poured in the dry and exposed corners shall be chamfered 3/4" unless otherwise noted.
If anchor bolts are drilled into cap, top reinforcing bars shall be properly placed to avoid damage.
All reinforcing steel shall conform to AASHTO M31 or M53, Grade 60 ($f_y = 60,000$ psi)
No portion of the Backwall shall be poured before the truss spans are in place
Class 2 Protective Surface Treatment shall be applied to the top of the backwall and curtain wall except at Lighting Column locations.
For additional information see layout.

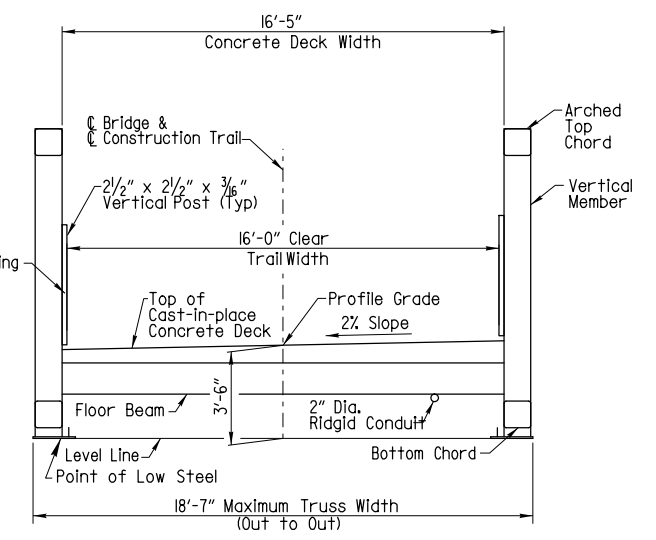
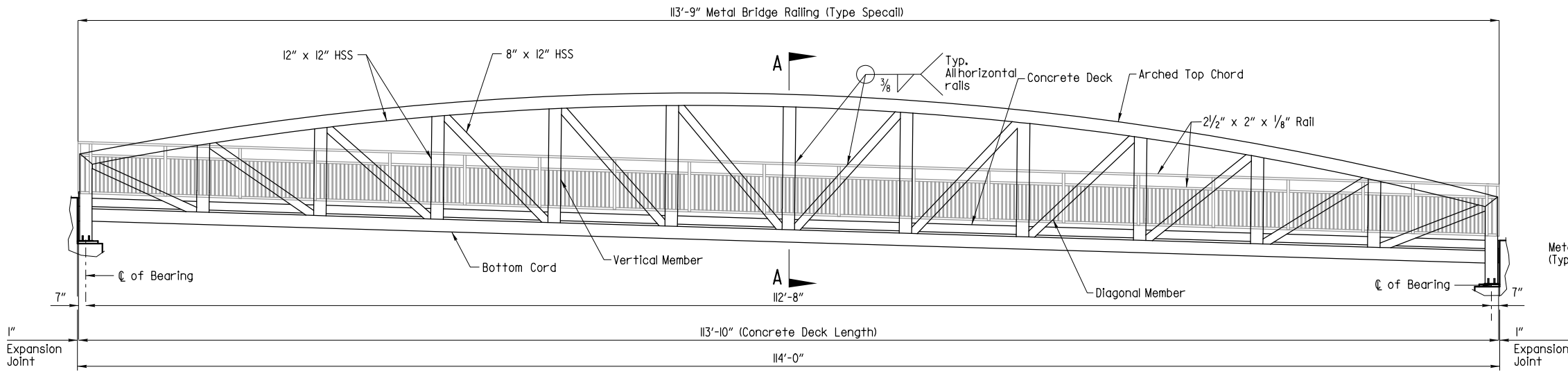


SUBSTRUCTURE DETAILS BENT 2
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

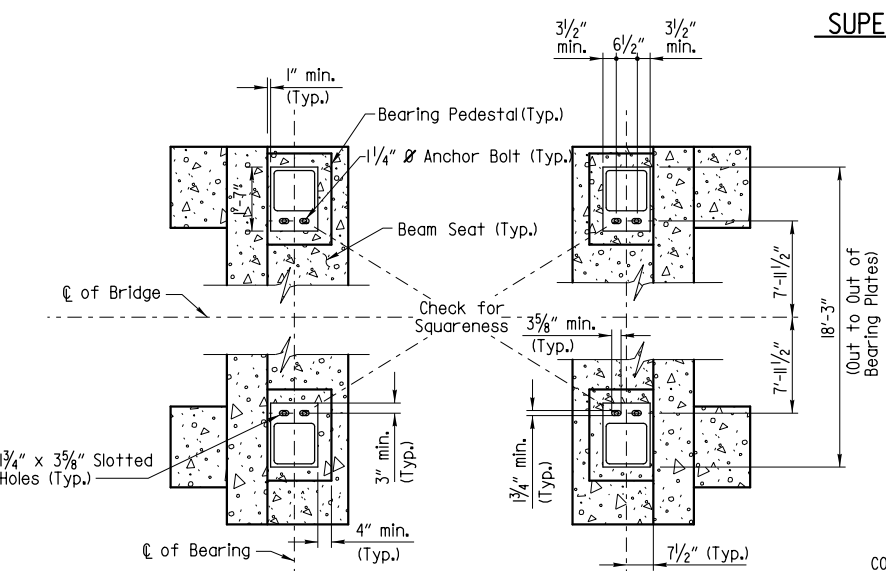
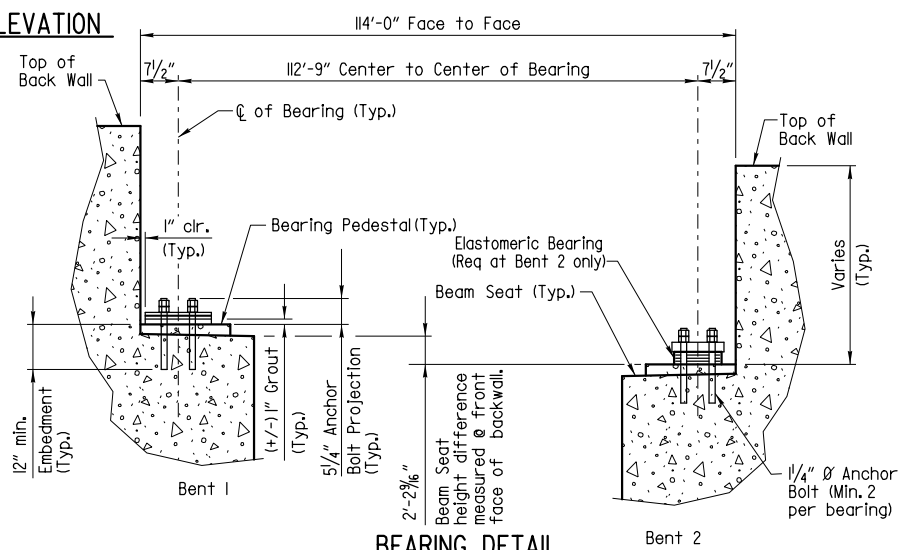
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				6	ARK.			
				JOB NO.	O61454			
				TRAIL SUPERSTRUCTURE DETAILS				65425



SUPERSTRUCTURE ELEVATION



CONSTRUCTION CRITERIA

The contractor shall verify all dimensions and existing conditions prior to construction and the fabrication of materials. Notify engineer of any variations which will require design modifications.

Through coordination with the prefabricated truss manufacturer, the contractor shall verify all applicable dimensions and superstructure end coordinates before construction of the substructure and pedestrian rails.

The contractor shall provide all measures necessary to protect the structure and safety of workmen during construction. The contractor shall comply with all applicable requirements of OSHA and other governing bodies having jurisdiction at the job site.

The design, adequacy, and safety of erection bracing, shoring, temporary supports, forms and other methods of construction is the responsibility of the contractor.

Carefully coordinate the placement of all embedded items. Embedded items shall be securely attached to forms or reinforcement prior to placing concrete.

Shop drawings shall be made in accordance with the specifications, submitted, and review secured before fabrication begins.

The size and spacing of the reinforcement in the concrete deck shall meet the requirements of the prefabricated truss manufacturer. The reinforcing steel shall be accurately located in the forms and firmly held in place by steel wire supports sufficient in size and number to prevent displacement during the course of construction.

Concrete in bridge superstructure shall be placed and consolidated for the entire pour and screeded off before any concrete has taken its initial set. The concrete deck shall be given a broomed finish as specified in Subsection 802.19 of the Standard Specification (2014). Movement of heavy equipment across the new concrete shall be on planks placed on the surface and shall be prohibited for 72 hours after finishing the pour. Sufficient concrete must be placed ahead of the strike-off to fully load the truss.

Finished surface of concrete in bridge superstructure shall be flush with the finished surface of top of the back walls to provide an acceptable transition.

Field splices, if required, shall be installed and tightened in accordance with Subsection 807.71 of the Standard Specifications (2014) prior to pouring the slab.

The contractor shall verify size and location of anchor bolts, as per bridge manufacturer's specifications, prior to ordering and setting bolts into cast-in-place concrete or drilling and epoxy grouting bolts into concrete.

MATERIALS

All structural steel members shall be fabricated from high strength, low alloy, atmospheric corrosion resistant ASTM A709 plates and structural shapes and ASTM A606 or ASTM A847 for tubular sections. Minimum yield (Fy) shall be greater than 50,000 psi. All exposed surfaces are to be commercial blast cleaned in accordance with SSPC-SP6. The truss geometry and the member shapes shall be selected such as to eliminate any possibility of accumulation of debris or water that would be deleterious to the long term performance of the bridge superstructure, bearings, and substructure.

Concrete in the bridge superstructure shall be completely formed by the bridge manufacturer with a minimum of 22 gauge galvanized floor deck. The floor deck shall be manufactured by a member of the Steel Deck Institute or have their deck properties certified by the Steel Deck Institute.

Field splices shall be bolted with high strength bolts conforming to Subsection 807.06 of the Standard Specifications (2014).

All concrete in the bridge superstructure shall be "Class (S)AE" as defined in Section 802 of the Standard Specification (2014) with a 28-day compressive strength of f'c=4,000 psi. Concrete shall be poured in the dry and exposed corners shall be chamfered 3/4" unless otherwise noted.

All reinforcing steel shall conform to ASTM A615 or A617, Grade 60 (fy = 60,000 psi) and Section 804 of the Standard Specification (2014).

The bearings shall have provisions for displacement at the expansion ends at the truss as designated on the bridge layout. Bearings at both ends of the truss shall have provisions for rotation, with anchor bolts located under the span.

SUPERSTRUCTURE GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable supplemental specifications and special provisions. Unless otherwise noted in the plans, section and subsection numbers refer to the Construction Specifications.

The superstructure design and construction and all superstructure materials shall conform to SP Job O61454 "Prefabricated Truss Span" and the Superstructure General Notes.

All structural steel, galvanized deck forms, concrete reinforcing steel, bearings, and anchor bolts in the superstructure will not be measured for separate payment but shall be considered subsidiary to the item "Prefabricated Truss Span".

DESIGN CRITERIA

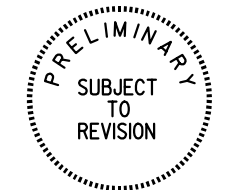
The prefabricated truss spans and concrete deck shall conform to the elevation and section views shown.

The prefabricated truss span manufacturer shall provide design for the entire prefabricated truss spans including the galvanized deck forms, and the concrete deck.

All design, deflection, and fatigue criteria shall be in compliance with the American Association of State Highway and Transportation Officials (AASHTO) "Guide Specifications for Design of Pedestrian Bridges" and AASHTO LRFD Bridge Design Specifications, 8th Edition, (2017). All welded connections shall conform to the standards of the American National Standards Institute/American Welding Society (ANSI/AWS) "D11 Structural Welding Code". The design shall be performed by or under the direct supervision of a professional engineer licensed in the State of Arkansas and done in accordance with recognized engineering practices and principles.

The truss shall be cambered to offset all dead load deflection and match the proposed profile grade line as shown in the plans. All vertical truss members shall be plumb and perpendicular to a level horizontal line after the bridge is erected and dead loads applied.

The connection of the truss to the substructure shall conform to the requirements of the AASHTO Standard Specification.

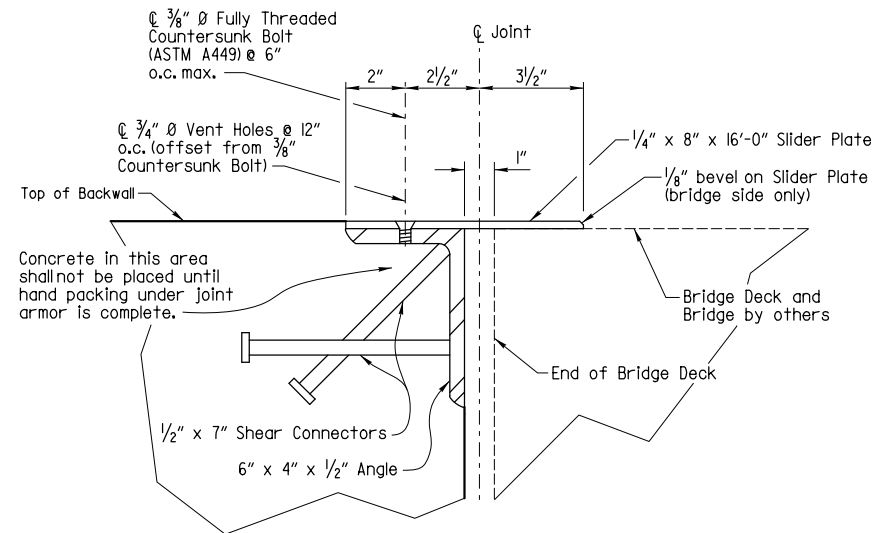


**SHEET 1 OF 2
SUPERSTRUCTURE DETAILS
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.**

DRAWN BY: SP DATE: 08/26/2021 FILENAME: b061454sl.dgn
 CHECKED BY: BG DATE: 07/24/2022
 DESIGNED BY: MAA DATE: 07/24/2022 SCALE: 3/8" = 1'-0"
 BRIDGE NO. TRAIL BRIDGE ENGINEER PRINT DATE: 7/26/2022 DRAWING NO. 65425

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				6	ARK.			
				JOB NO.	061454			
				1	TRAIL	SUPERSTRUCTURE DETAILS	65426	



DETAIL A
(No Scale)

Note: Concrete shall be hand packed under the joint armor in the backwall and the span.

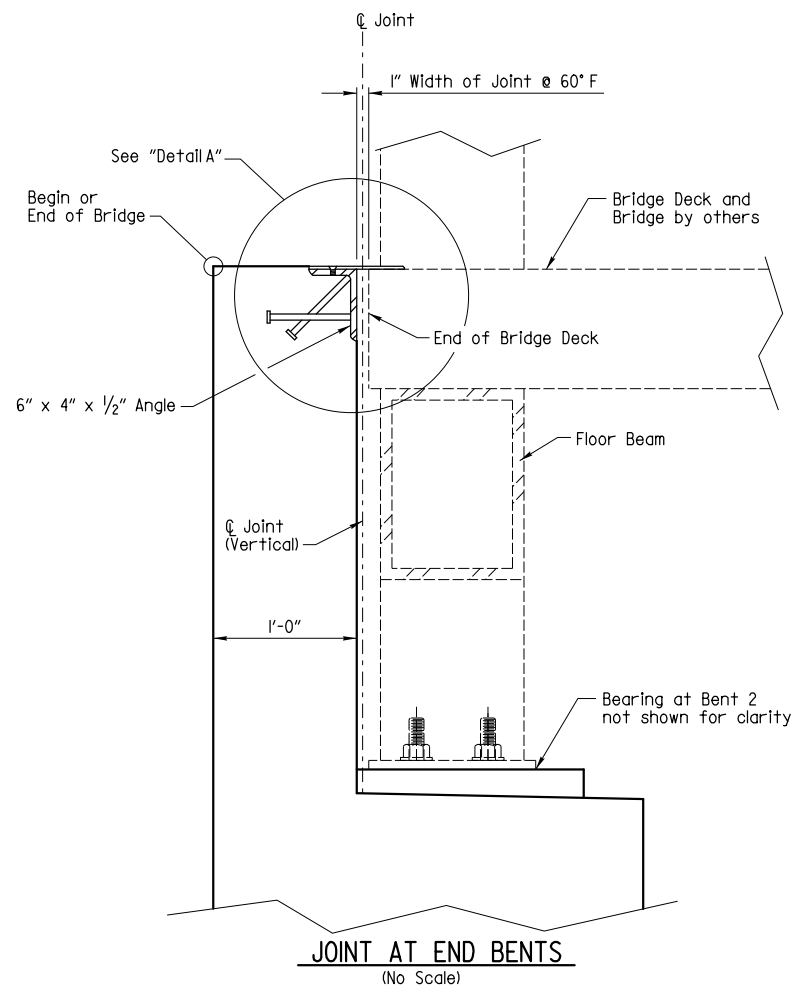
GENERAL NOTES

All Structural Steel in joint at end bents shall be fabricated from high strength, low alloy, atmospheric corrosion resistant ASTM A709 plates and structural shapes and shall not be paid for directly but considered subsidiary to the item "Prefabricated Truss Span"

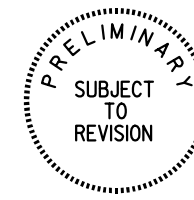
Details of proposed slider plate assembly shall be submitted to and approved by the Engineer prior to fabrication of any structural steel in the expansion device.

All structural steel shall be AASHTO M270, Gr. 50W.

Slider plate assembly shall not be paid for separately but shall be considered subsidiary to SP JOB 1601 "Prefabricated Truss Span".



JOINT AT END BENTS
(No Scale)



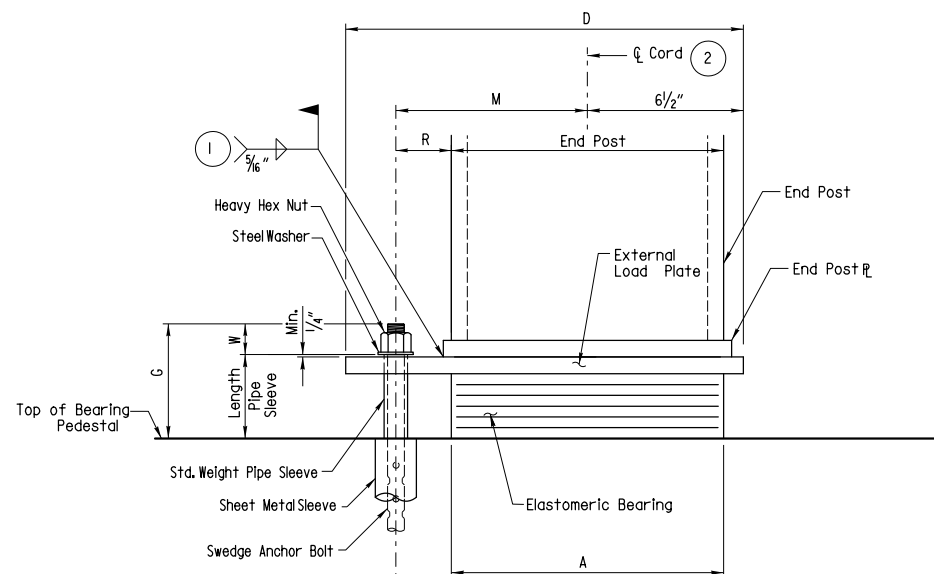
SHEET 2 OF 2
SUPERSTRUCTURE DETAILS
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

BRIDGE ENGINEER
PRINT DATE: 7/26/2022

DRAWN BY: EF DATE: 08/26/2021 FILENAME: b061454s2.dgn
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BRIDGE NO. TRAIL DRAWING NO. 65426

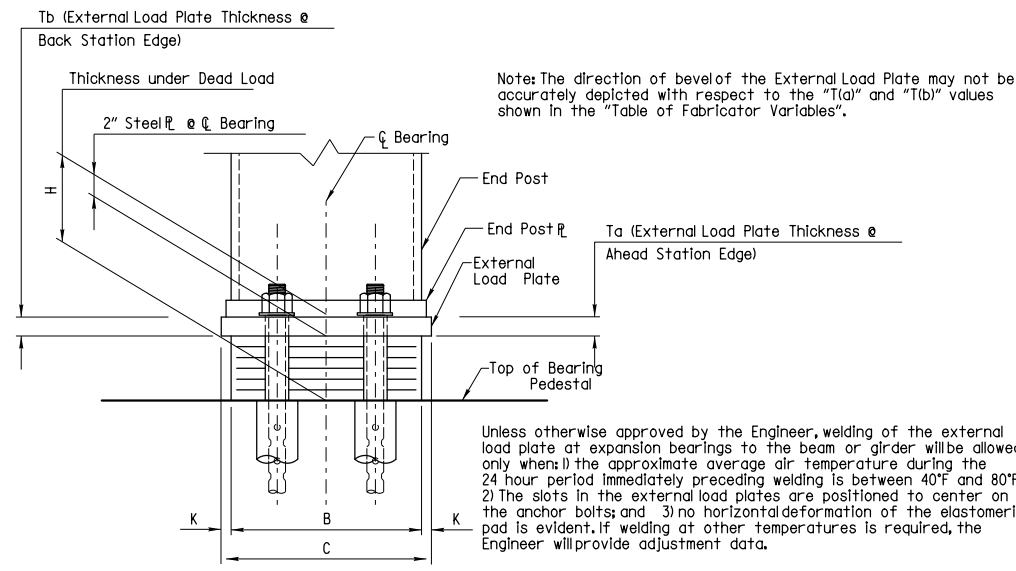
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				6	ARK.			
JOB NO.						061454		
1 TRAIL DETAILS OF ELASTOMERIC BEARINGS								65427

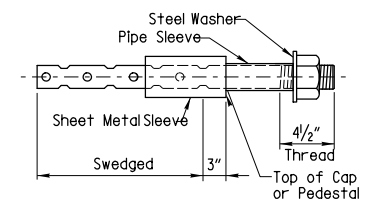


FRONT VIEW - BENT NO. 2
(No Scale)

- ① Care shall be taken to ensure that the external load plate is in full and complete contact with the end post plate before welding begins.
- ② ϕ Elastomeric pad shall be aligned with C Cord



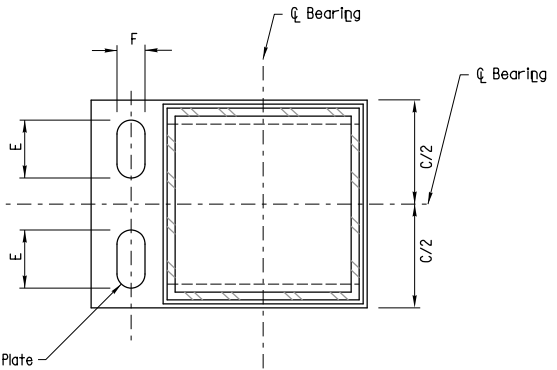
SIDE VIEW BENT NO. 2
(No Scale)



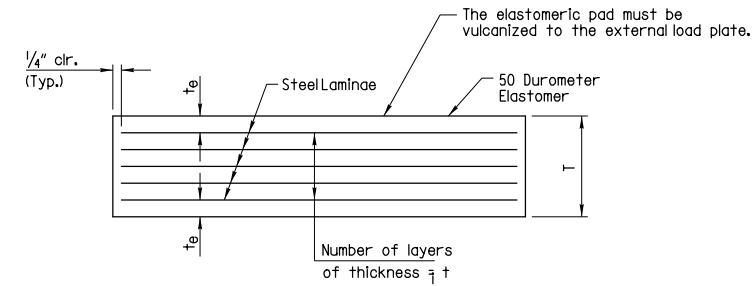
ANCHOR BOLT DETAIL
(No Scale)

NOTE:
Anchor Bolts may be cast in place or drilled and grouted into place. If Anchor Bolts are to be cast in place, the Galvanized Sheet Metal Sleeves will not be required.

If Anchor Bolts are to be drilled and grouted in place, the Galvanized Sheet Metal Sleeves shall be cast in place as shown. Sleeves shall be dry packed with styrofoam, urethane foam or approved equal prior to pouring of concrete. After pouring of the cap or pedestal and prior to erection of Structural Steel, the dry pack shall be removed and holes for the anchor bolts shall be accurately drilled into the masonry. Bolts placed in drilled holes shall be accurately set and fixed using a QPL approved epoxy or non-shrink grout that completely fills the holes. Galvanized Sheet Metal Sleeves will not be paid for directly, but will be considered subsidiary to the item "Elastomeric Bearings".



PLAN VIEW - BENT NO. 2
(No Scale)



ELASTOMERIC BEARING
(No Scale)

t_1 = thickness of elastomer between steel laminae
 t_e = thickness of elastomer cover on top and bottom of pad
 N = number of elastomer layers of thickness t

GENERAL NOTES

Elastomeric Bearings shall conform to Section 808 of the Standard Specifications and shall be paid for at the unit price bid for "Elastomeric Bearings."

External load plates shall conform to AASHTO M 270, Grade 50 and will not be paid for separately, but will be included in the unit price bid for "Elastomeric Bearings". Pipe sleeves shall be ASTM A53, Grade B, and shall be galvanized to conform to AASHTO M 232, Class C or ASTM B695, Class 50.

External load plates shall be completely fabricated (including bevel, bolt holes and all shop welding) and shall be cleaned before vulcanized to the elastomeric bearing. The surface in contact with the elastomeric bearing shall be cleaned in accordance with Subsection 808.03. Other surfaces shall be blast cleaned in accordance with Subsection 807.84(b) for painted steel and painted in accordance with Subsection 807.75. Painting will not be paid for directly but will be considered subsidiary to "Elastomeric Bearings".

Anchor Bolts, Washers and Nuts shall conform to Subsection 807.07 of the Standard Specifications. The anchor bolt grade of steel shall be as specified in the "Table of Fabricator Variables". Indentations shall be circular with rounded bottoms and staggered as shown in the details.

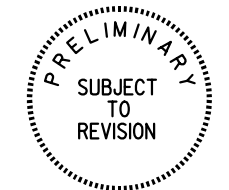
Pipe Sleeves, Anchor Bolts, Washers and Nuts shall be paid for at the unit price bid for "Structural Steel in Plate Girder Spans (M270, Gr. 50)".

Bearings shall be seated in accordance with Subsection 808.08. Work and materials shall be considered subsidiary to the item "Elastomeric Bearings" and will not be paid for directly.

TABLE OF FABRICATOR VARIABLES

BRIDGE NO.	LOCATION		BEARING TYPE	NO. OF BRGS. EACH BENT	* MAXIMUM DESIGN LOAD (klps)	E L A S T O M E R I C P A D		E X T E R N A L L O A D P L A T E												A N C H O R B O L T									
	BENT NO.	GIRDER NO.				G	H	A	B	N	t_1	t_e	NO. & THICKNESS OF STEEL LAMINAE	T	C	D	E	F	K	M	R	T_a	T_b	ANCHOR BOLT		PIPE SLEEVE SIZE ($\phi \times L$)	SHEET METAL SLEEVE SIZE ($\phi \times L$)	STEEL WASHER SIZE (O.D.)	W
																								$\phi \times L$	GRADE				
	2	All	Exp.	2	120	7 7/8"	4 3/8"	12"	10"	3	1/2"	1/4"	4 @ 12 ga.	2 3/8"	13"	1'-5"	3 5/8"	1 3/4"	1/2"	7 1/2"	1 1/2"	2"	2"	1/4" x 2'-0"	55	1/4" x 4 1/8"	4" x 15"	2 1/2"	2 1/4"

*Maximum Load = Service I Limit State.



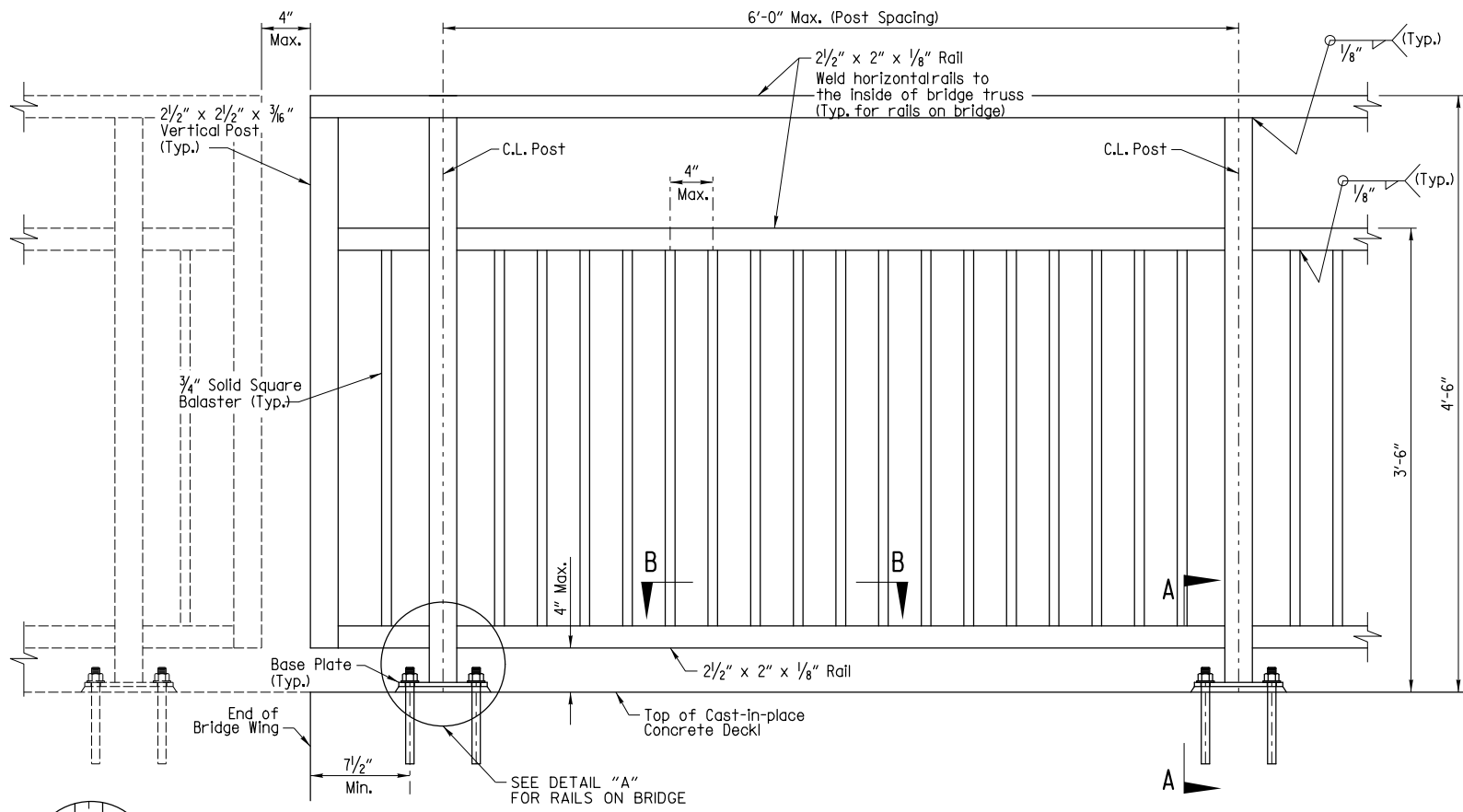
**DETAILS OF ELASTOMERIC BEARINGS
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.**

DRAWN BY: SP DATE: 08/26/2021 FILENAME: b061454e.dgn
 CHECKED BY: BG DATE: 07/24/2022
 DESIGNED BY: MAA DATE: 07/24/2022 SCALE: No Scale
 BRIDGE NO. TRAIL DRAWING NO. 65427

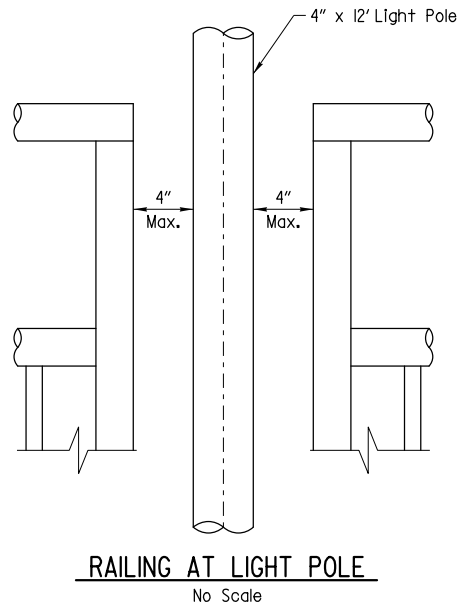
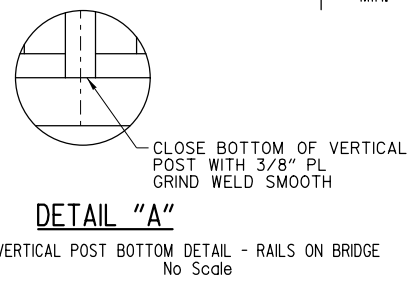
BRIDGE ENGINEER
PRINT DATE: 7/26/2022

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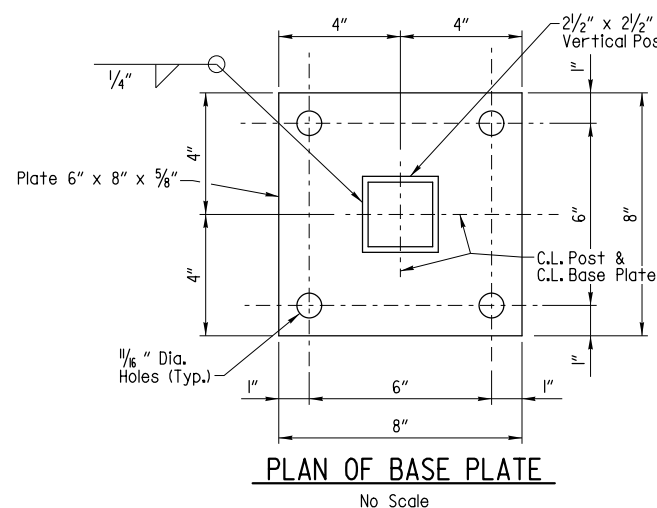
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JOB NO.						O61454		
1 TRAIL DETAILS OF METAL BRIDGE RAILING								65428



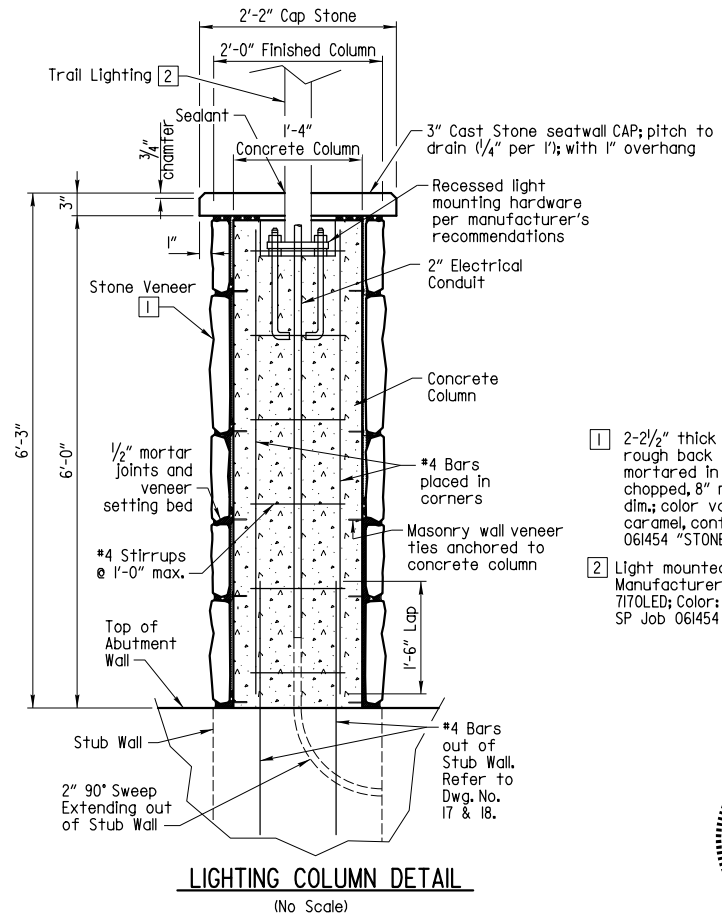
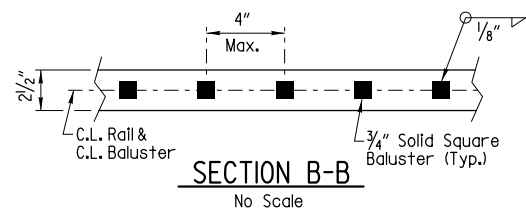
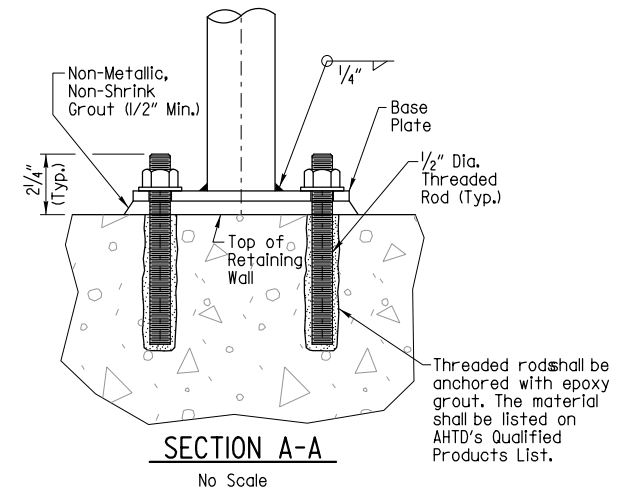
PART ELEVATION OF METAL BRIDGE RAILING (TYPE SPECIAL)
SHOWN RAILS ON RETAINING WALLS, MODIFY RAILS ON BRIDGE AS NOTED
No Scale



RAILING AT LIGHT POLE
No Scale



PLAN OF BASE PLATE
No Scale



LIGHTING COLUMN DETAIL
(No Scale)

RAILING GENERAL NOTES

Metal Bridge Railing (Type Special) shall be fabricated, installed and paid for in accordance with Section 806 of the Standard Specifications, except as follows.

Tubing for Railing and Posts shall be A500, grade B steel (Fy=46,000 psi).

Structural Steel for balusters and base plates shall be ASTM A709 Grade 36 (Fy=36,000 psi) or Grade 50 (Fy=50,000 psi).

Anchors to be included in unit price bid for 54" Pedestrian Railing.

Railing posts shall be vertical. Grout of 1/2" maximum thickness shall be placed under the base plates to provide for vertical alignment of posts. All horizontal rails shall match the slope of the finished grade.

Place vent holes as required to prevent accumulation of water inside railing tubes.

Shop drawings of the Pedestrian Railing, including base plates and threaded rods, shall be submitted to the Engineer for approval prior to fabrication.

All railings shall have a smooth outside surface with no protrusions or depressions. All ends of tubes shall be closed and ground smooth.

Drilled holes for the epoxy resin anchors shall not affect the integrity of the reinforcing bars in the concrete coping.

Pullout strength of threaded rod and epoxy grout system shall be a minimum of 5000 lb. Embedment and installation of anchors shall be in accordance with manufacturer's recommendations.

Measurement of Metal Bridge Railing (Type Special) is to the nearest linear foot measured parallel to grade from end of railing to end of railing.

1/2" Dia. threaded rods, washers, hex nuts and resin anchor system shall be subsidiary to the Item Metal Bridge Railing (Type Special).

All pickets, posts, rails and base plates shall be galvanized after fabrication and in accordance with ASTM A123.

All threaded rods, hardened washers and nuts shall be galvanized in accordance with ASTM A153.

Precautions shall be taken with the galvanizing to ensure that the rail components are not water or chromate quenched after galvanizing.

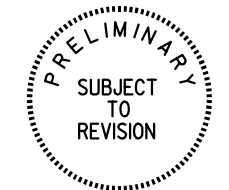
Repair of damaged areas of hot-dip galvanized coatings shall be in accordance with ASTM A780.

Coating shall not proceed until at least 48 hours after galvanizing. Galvanized surfaces to be coated shall be cleaned to SSPC-SP-1 and followed by a light abrasive brush blast to meet SSPC-SP-7 in accordance with Subsection 807.87.

All pickets, posts, rails and other components of the rail shall be coated in accordance with Section 807.75 of the Standard Specifications which includes prime, tie and finish coats. Color of the finish shall be Brown (Federal Standard #30045) or as approved by the owner.

During the coating of the rail components, all surfaces of concrete and other areas not to receive the coating shall be protected from drippings of coating material and over spray. All coating material on surfaces not to be coated shall be immediately cleaned to remove all coating material to the satisfaction of the Engineer.

At the option of the Contractor, the tie coat and finish field coats may be applied in the shop. The Contractor shall exercise extreme care during all phases of loading, hauling, handling and erection of the rail to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the Engineer. Exposed threaded rods shall be field coated with a paint closely matching the color of the rail.



DETAILS OF METAL BRIDGE RAILING (TYPE SPECIAL)
AR RIVER TRAIL
OVER CAPITOL DRAIN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

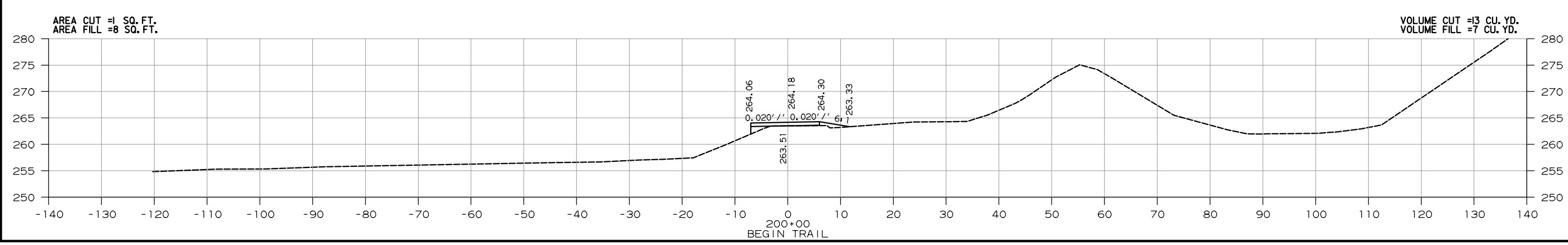
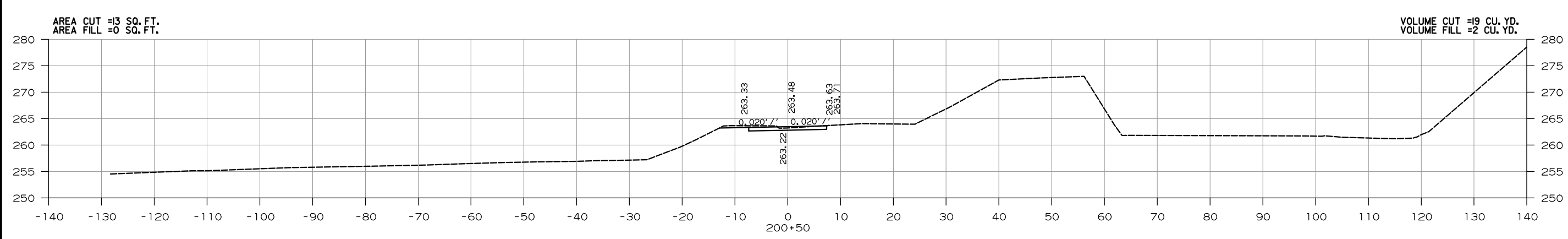
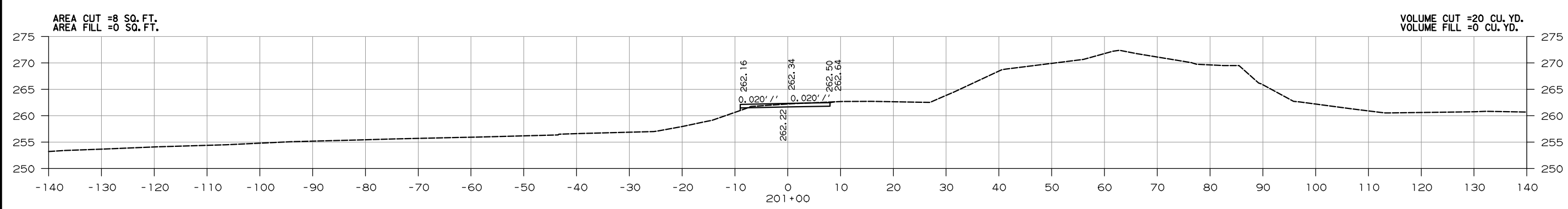
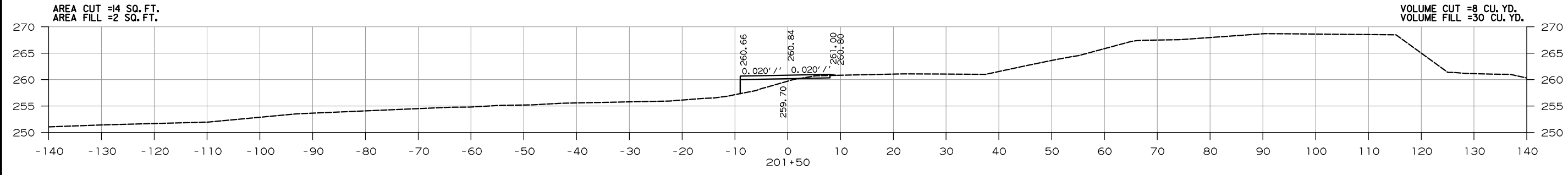
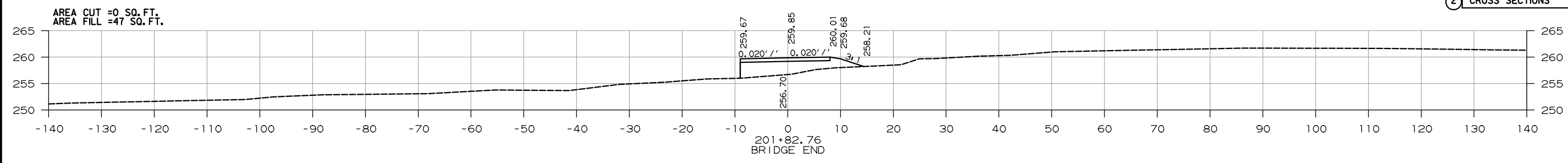
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BRIDGE ENGINEER
PRINT DATE: 7/26/2022

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						JOB NO.	061454	

② CROSS SECTIONS



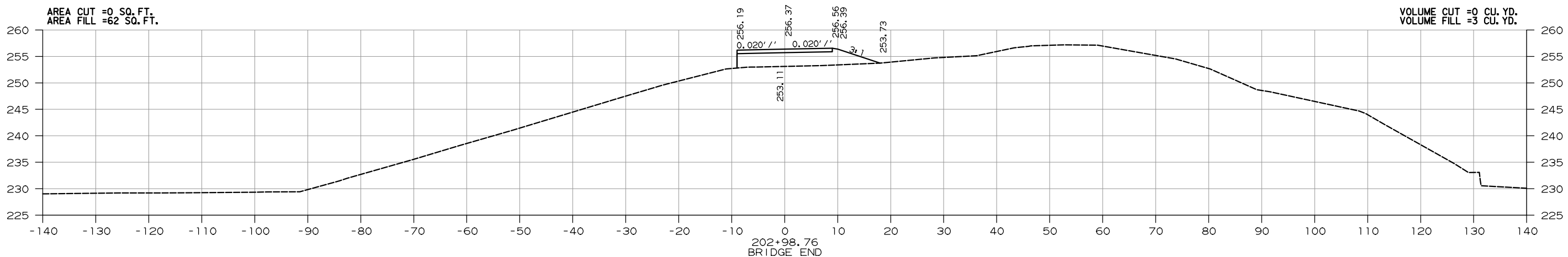
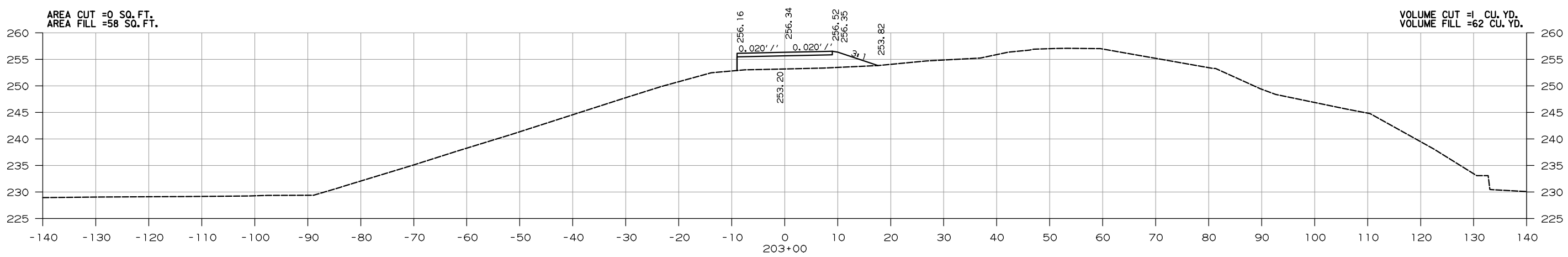
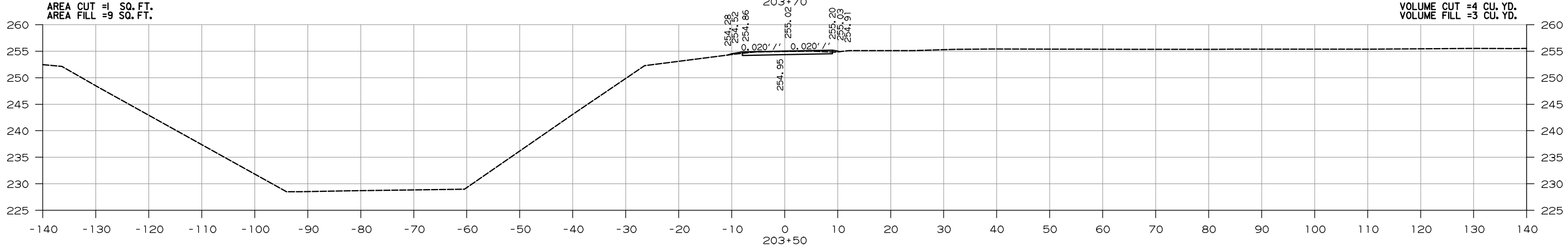
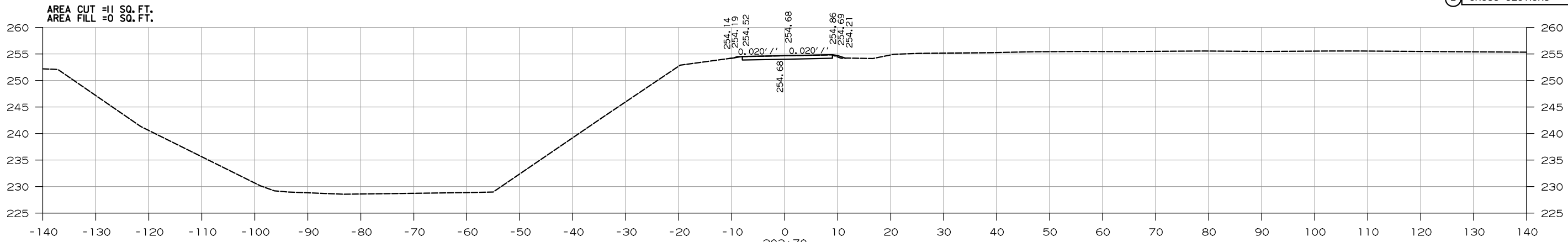
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TRAIL

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2 CROSS SECTIONS

203+70.14 END TRAIL



TRAIL

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