

PROJECT	DESIGNATION
1802927	1802927
CONTRACT	BRIDGE FILE
B-42074	RUSH 155

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN & SKEW	OVER	STATION
RUSH 155	COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE	ONE SPAN: 59'-0" SKEW 15°00'00" LT.	BRANCH OF LITTLE FLATROCK RIVER	Structure 21+45.00 Line "B"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: C.R. 450 SOUTH OVER BRANCH OF LITTLE FLATROCK RIVER

PROJECT NO. 1802927 P.E.
1802927 R/W
1802927 CONST.

TRAFFIC DATA	C.R. 450 SOUTH	C.R. 365 EAST
A.A.D.T. (2020)	188 V.P.D.	135 V.P.D.
A.A.D.T. (2024)	204 V.P.D.	146 V.P.D.
A.A.D.T. (2044)	302 V.P.D.	216 V.P.D.
DIRECTIONAL DISTRIBUTION	50 %	50 %
COMMERCIAL VEHICLES	5% A.A.D.T.	5% A.A.D.T.
DESIGN DATA		
DESIGN SPEED	55 M.P.H.	55 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	MINOR COLLECTOR	LOCAL ROAD
RURAL/URBAN	RURAL	RURAL
TERRAIN	LEVEL	LEVEL
ACCESS CONTROL	NONE	NONE

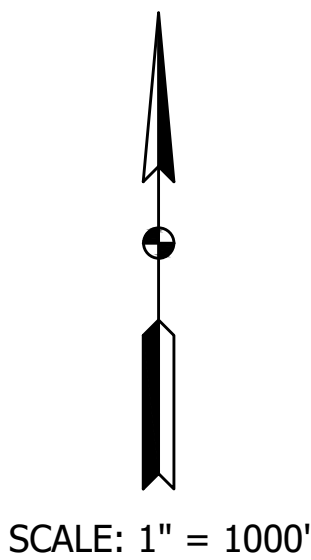
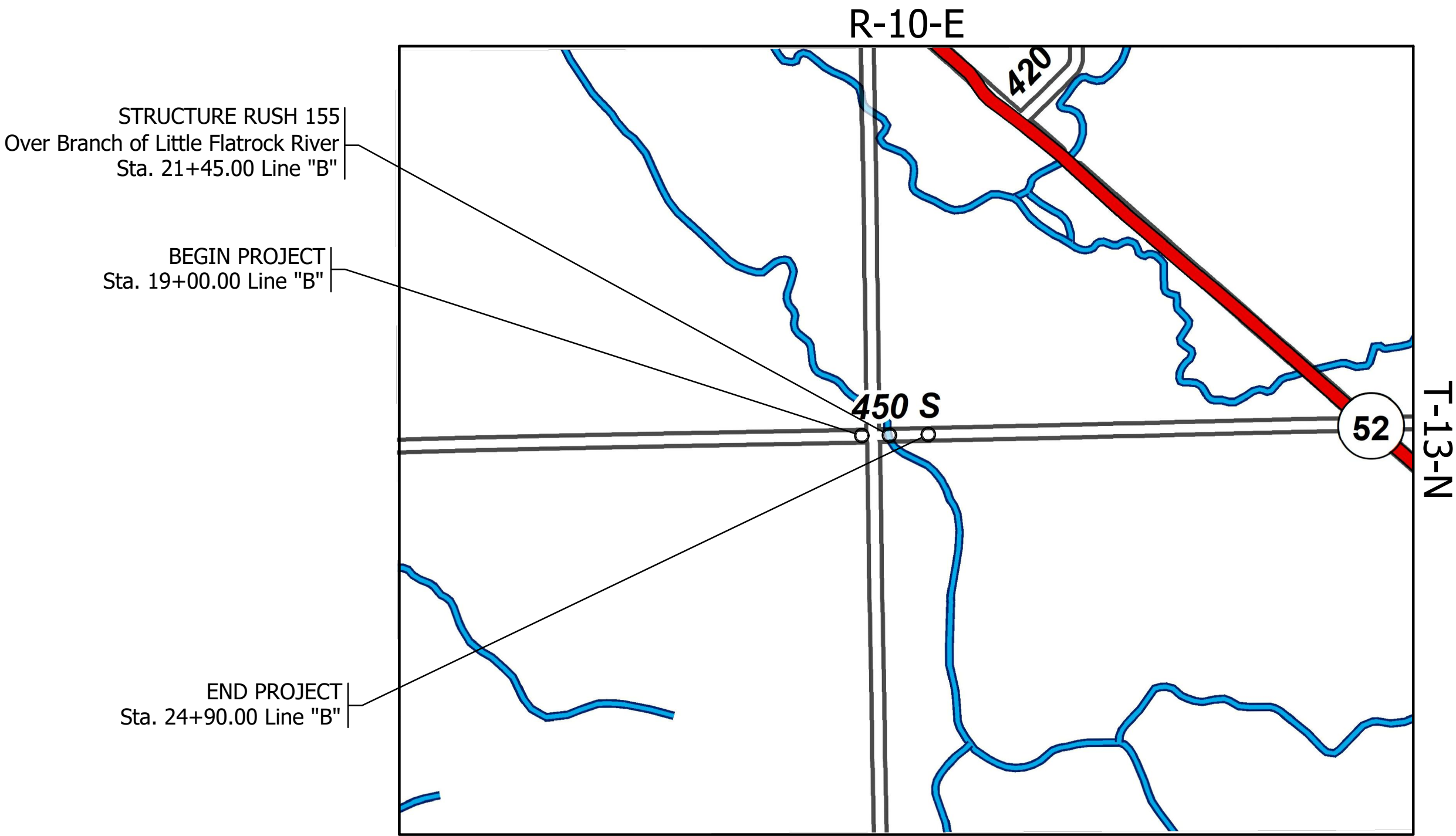
APPROVED: _____ Date: _____

BOARD OF RUSH COUNTY COMMISSIONERS

ATTEST _____

COUNTY AUDITOR

REPLACEMENT OF BRIDGE CARRYING C.R. 450 SOUTH OVER BRANCH OF LITTLE FLATROCK RIVER
PROJECT IS LOCATED 0.60 MILES WEST OF US 52
SECTION 26, TOWNSHIP 13 NORTH, RANGE 10 EAST
NOBLE TOWNSHIP, RUSH COUNTY, INDIANA.



LATITUDE: 39°32'52"N LONGITUDE: 85°22'36"W

BRIDGE LENGTH: 0.011 MI.
ROADWAY LENGTH: 0.101 MI.
TOTAL LENGTH: 0.112 MI.
MAX. GRADE: -3.00 %

HUC: 05120205030030

VICINITY MAP
RUSH COUNTY

FULL SIZE PLANS HAVE BEEN PREPARED USING
STANDARD ENGINEERING SCALES. REDUCED SIZED
PLANS WILL NOT CONFORM TO STANDARD SCALES.

PLANS PREPARED BY:	Butler Fairman and Seufert Inc.	(317)713-4615
CERTIFIED BY:	_____	PHONE _____
APPROVED FOR LETTING:	_____	DATE _____
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE _____

SURVEY BOOK	SHEET
ELECTRONIC	1 OF 23
CONTRACT	PROJECT
B-42074	1802927

BRIDGE FILE
RUSH 155
DESIGNATION
1802927

UTILITIES	
ELECTRIC:	RUSH SHELBY ENERGY P.O. BOX 55 MANILLA, IN 46150 PH: (765) 544-2600 ATTN: WARREN SHUPPERT EMAIL: wshuppert@RSE.coop
COMMUNICATION:	FRONTIER COMMUNICATIONS (ATCO) 1191 RICH RD. RICHMOND, IN 47374 PH: (740) 513-9496 ATTN: RICK FERRIS, OSP ENGINEER EMAIL: rick.ferris@ftr.com

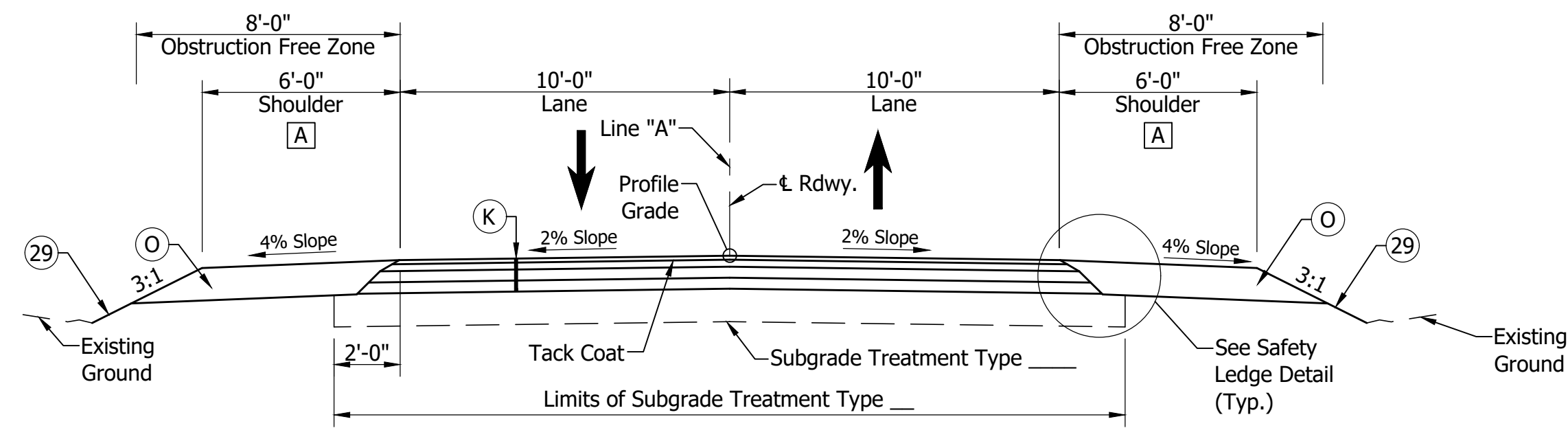
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A Plat Sheet was determined not to be required since this is a bridge replacement project with a relatively short project length. All the necessary information can be found on the plan and profile sheets.

Only three property owners are involved.

Mike Matel

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A	BRIDGE FILE RUSH 155
			VERTICAL SCALE N/A	DESIGNATION 1802927
	DESIGNED: _____ M. MATEL _____ DRAWN: _____ D. PIERCEFIELD _____	INDEX	SURVEY BOOK ELECTRONIC	SHEET 2 OF 23
	CHECKED: _____ Q. O'BRIEN _____ CHECKED: _____ M. MATEL _____		CONTRACT B-42074	PROJECT 1802927



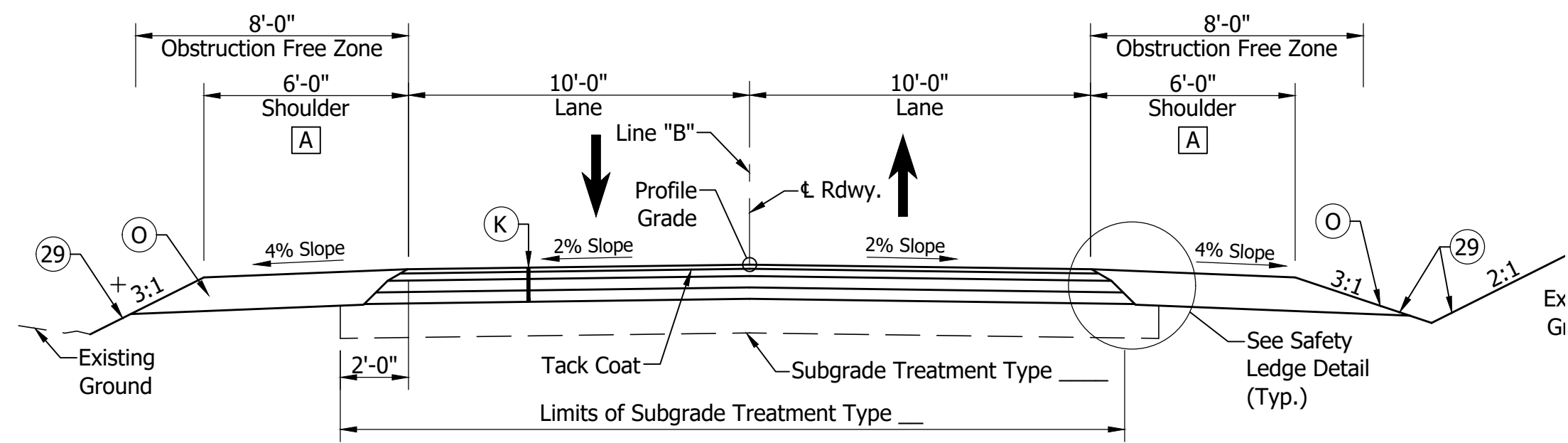
Sta. 10+20.00 "A" to Sta. 13+45.00 "A"

TYPICAL APPROACH SECTION

C.R. 365 EAST

Scale: 1/4"=1'-0"

+ Use 2:1 side slopes from
Sta. 20+50.00 "B" Lt. To Sta. 24+00.00 "B" Lt.



Sta. 19+00.00 "B" to Sta. 20+91.20 "B"

Sta. 21+98.80 "B" to Sta. 24+90.00 "B"

TYPICAL APPROACH SECTION

C.R. 450 SOUTH

Scale: 1/4"=1'-0"

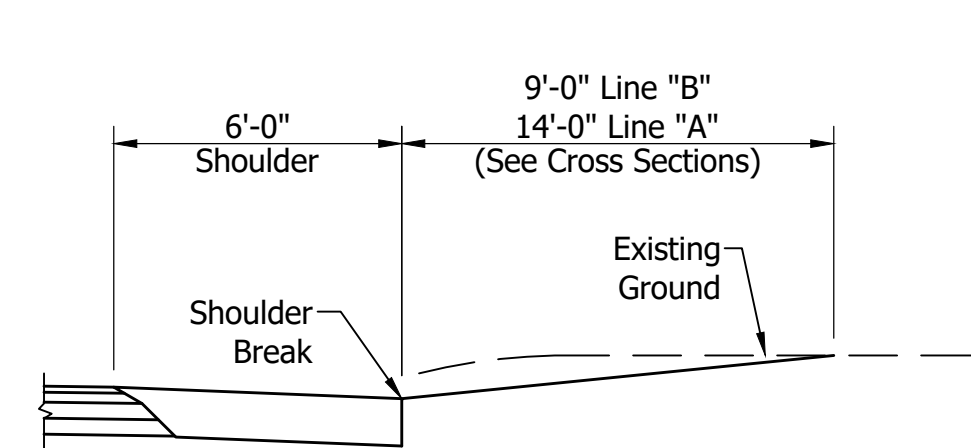
[A] Shoulder Shall Be Paved To The
Face Of Guardrail When Present

LEGEND

- (K) HMA FULL DEPTH PAVEMENT
165#/Syd. QC/QA-HMA, 2, 64, Surface 9.5 mm on
275#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on
8" Compacted Agg., No. 53 (Place in 2-4" Lifts)
(No Calcium Chloride Req'd.)
- (O) Variable Depth Compacted Aggregate, No. 53
- (29) Mulched Seeding, R

NOTES:

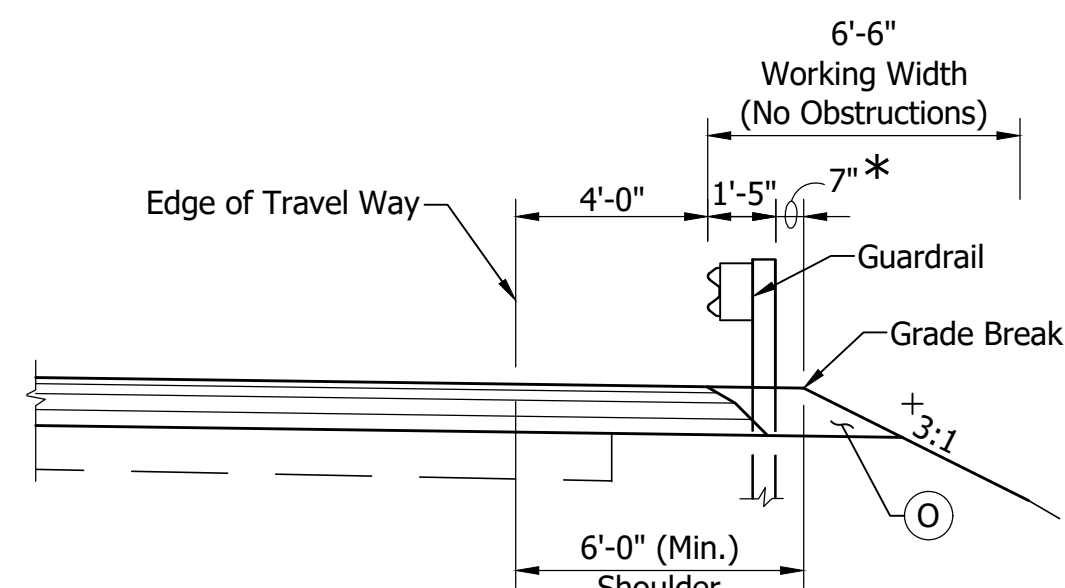
- A safety edge shall be placed in the surface and intermediate layers of all edges of pavements that are not bound by a curb.
- Tack Coat required between Intermediate and Surface HMA layers.



Sta. 19+00.00 "B" to Sta. 19+85.00 "B" RT.
Sta. 24+00.00 "B" to Sta. 24+90.00 "B" LT.
Sta. 10+45.00 "A" to Sta. 11+75.00 "A" LT.

TYPICAL SHOULDER DITCH DETAIL

Scale: 1/4" = 1'-0"

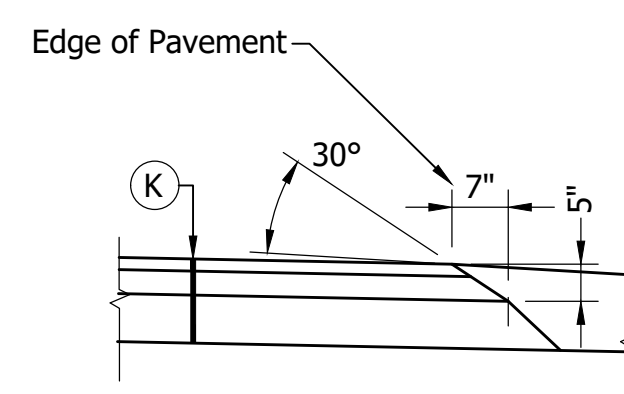


See Sheet 4 For Guardrail Stations & Locations

* Varies At End Treatment (See Detail This Sheet)

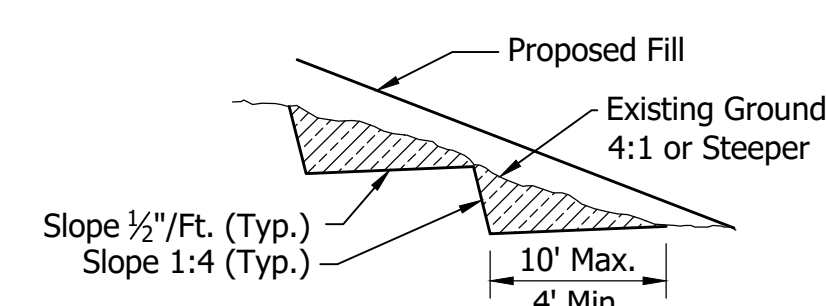
TYPICAL SECTION WITH GUARDRAIL

Scale: 1/4" = 1'-0"



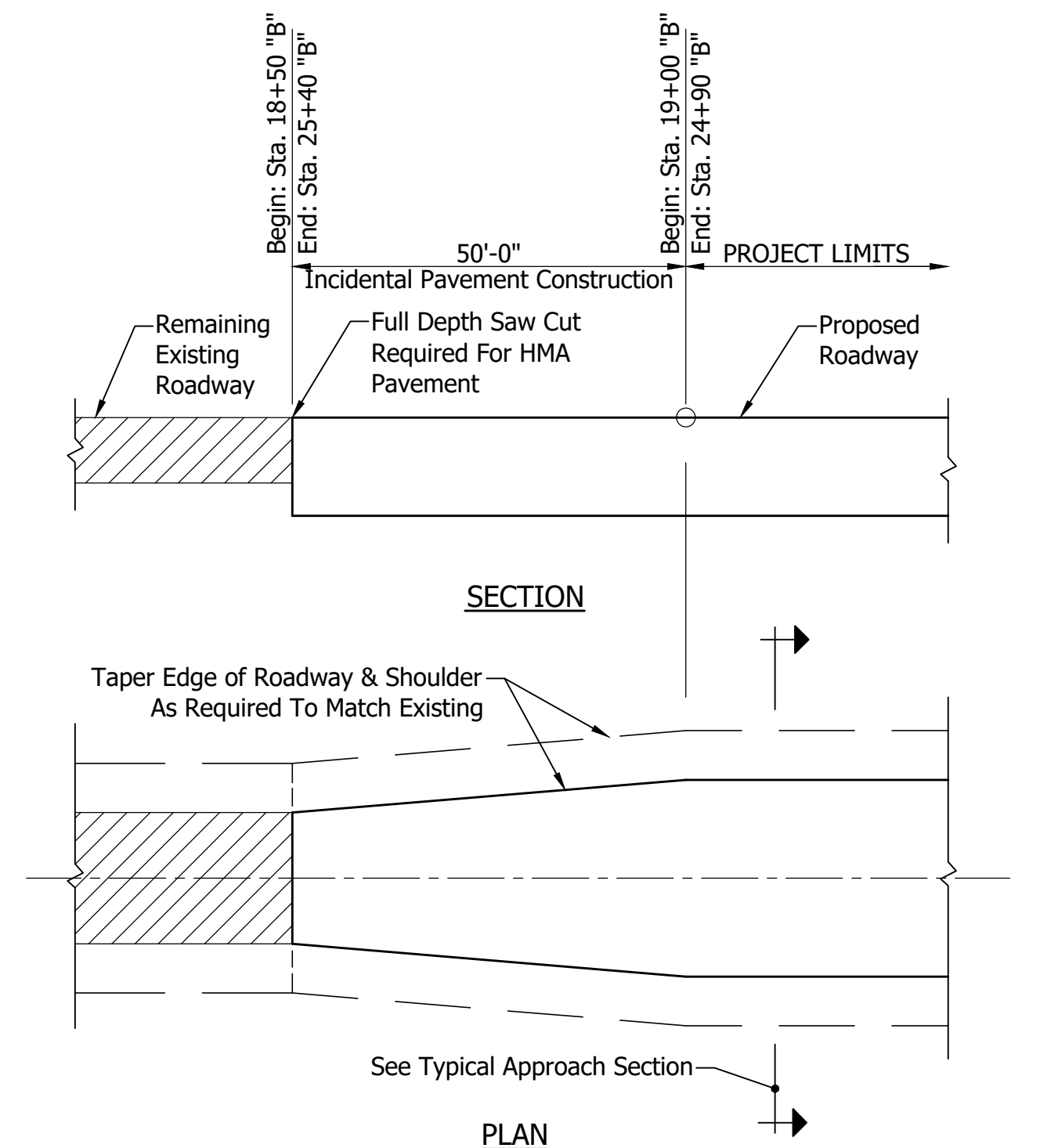
SAFETY EDGE DETAIL

Scale: 1/2" = 1'-0"



TYPICAL BENCHING DETAIL

Not to Scale



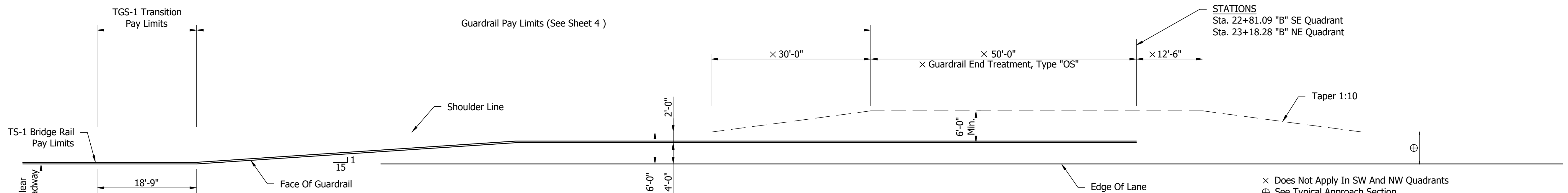
SECTION

PLAN

TYPICAL DETAILS

INCIDENTAL CONSTRUCTION

Not to Scale



TYPICAL SHOULDER AND GUARDRAIL DETAIL

Scale: 1/16"=1'-0"

STATIONS
Sta. 22+81.09 "B" SE Quadrant
Sta. 23+18.28 "B" NE Quadrant

Taper 1:10

× Does Not Apply In SW And NW Quadrants
⊕ See Typical Approach Section

RECOMMENDED
FOR APPROVAL: _____
DESIGN ENGINEER _____ DATE _____

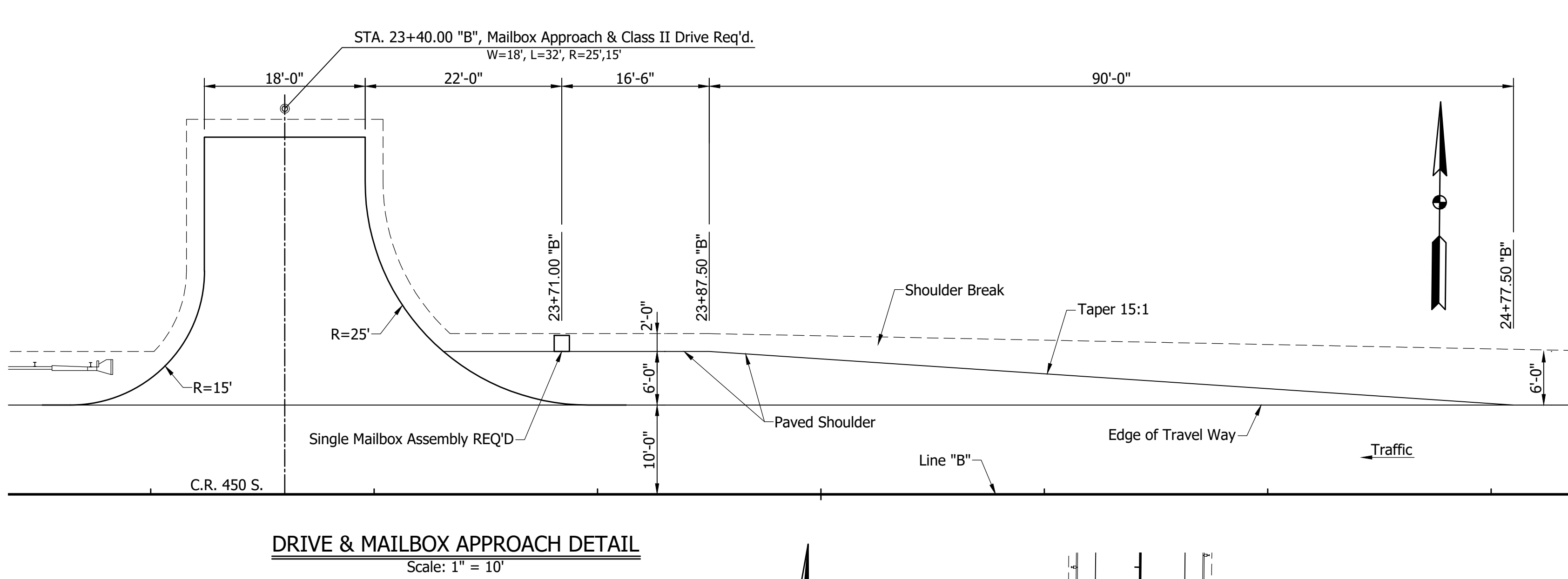
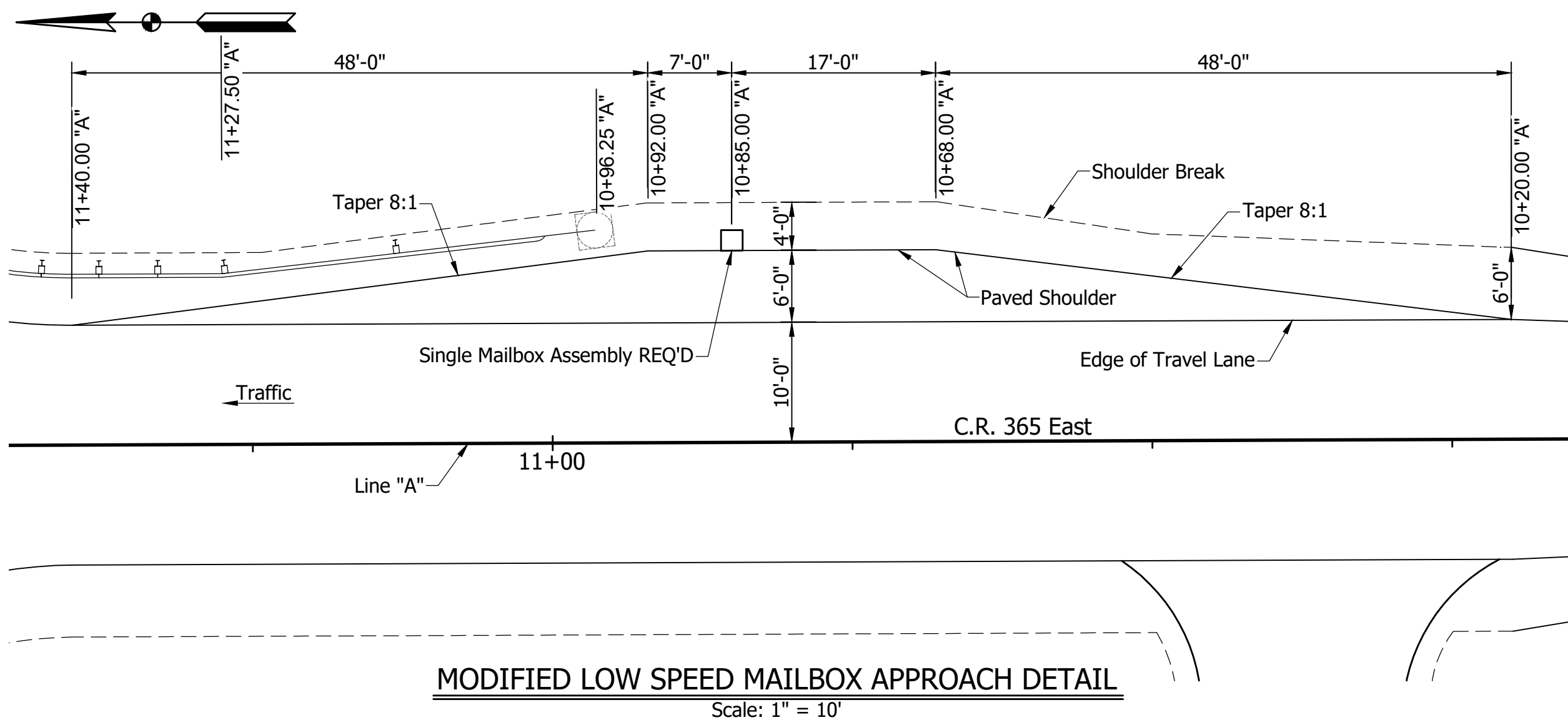
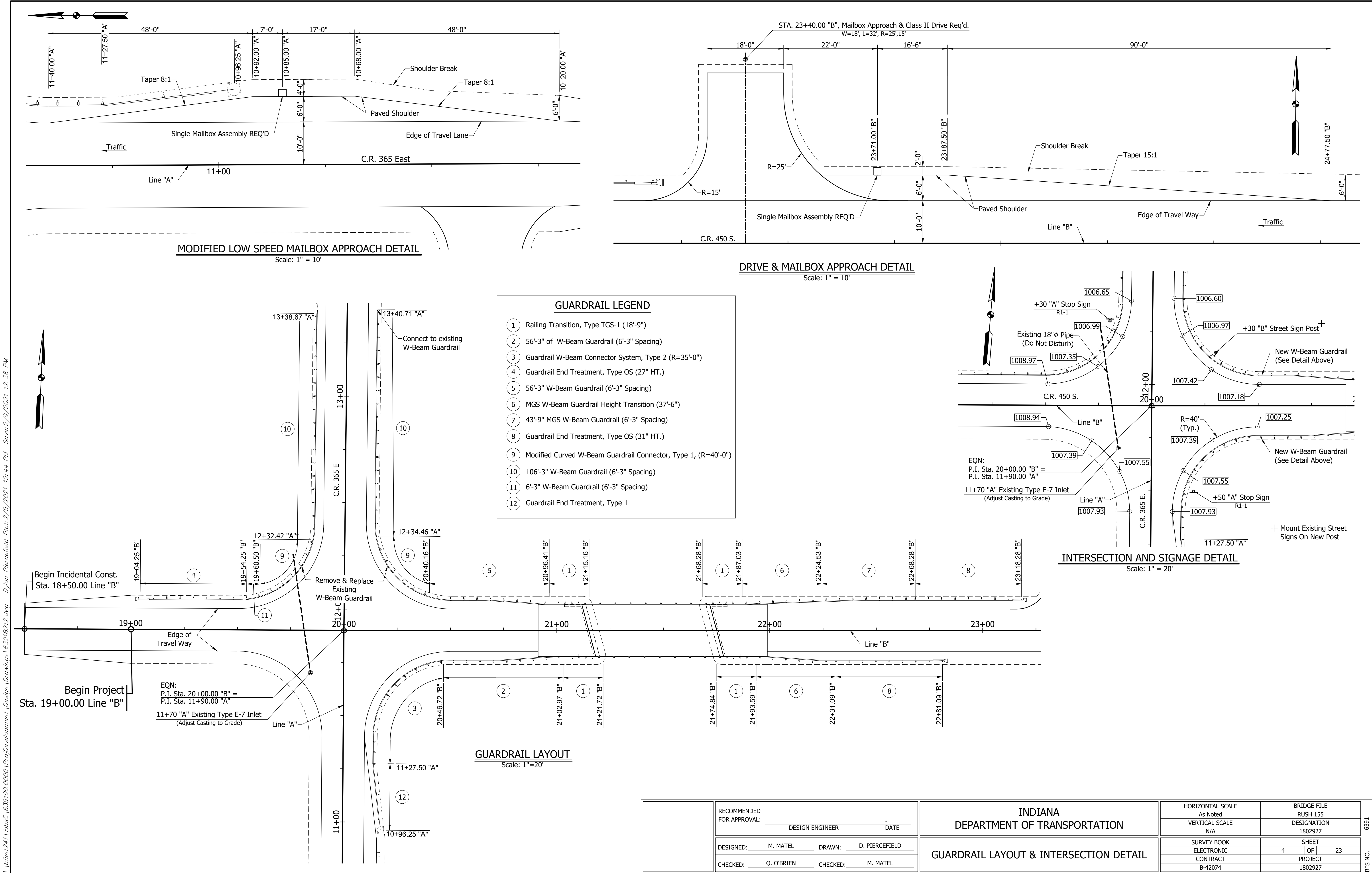
DESIGNED: M. MATEL DRAWN: D. PIERCEFIELD

CHECKED: Q. O'BRIEN CHECKED: M. MATEL

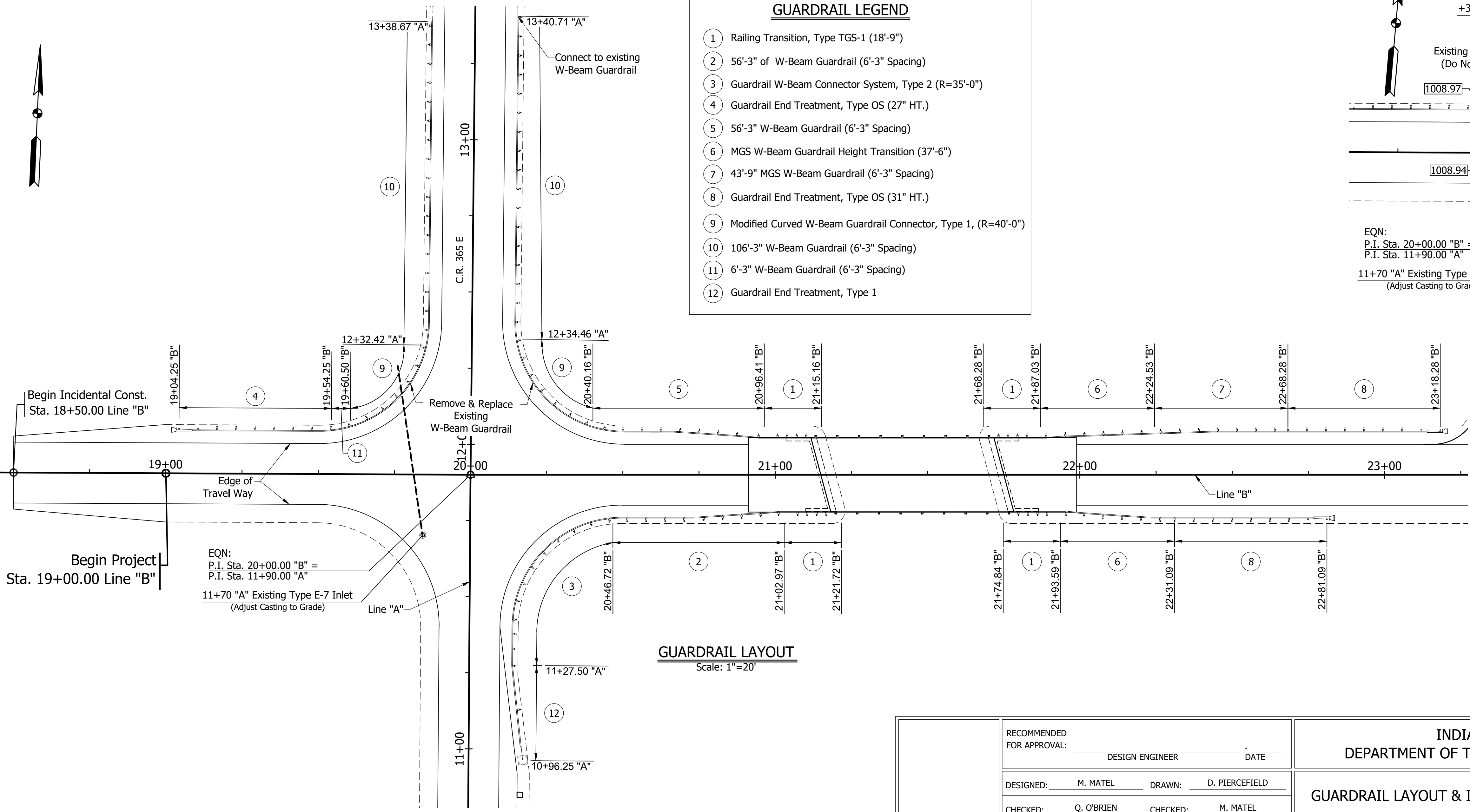
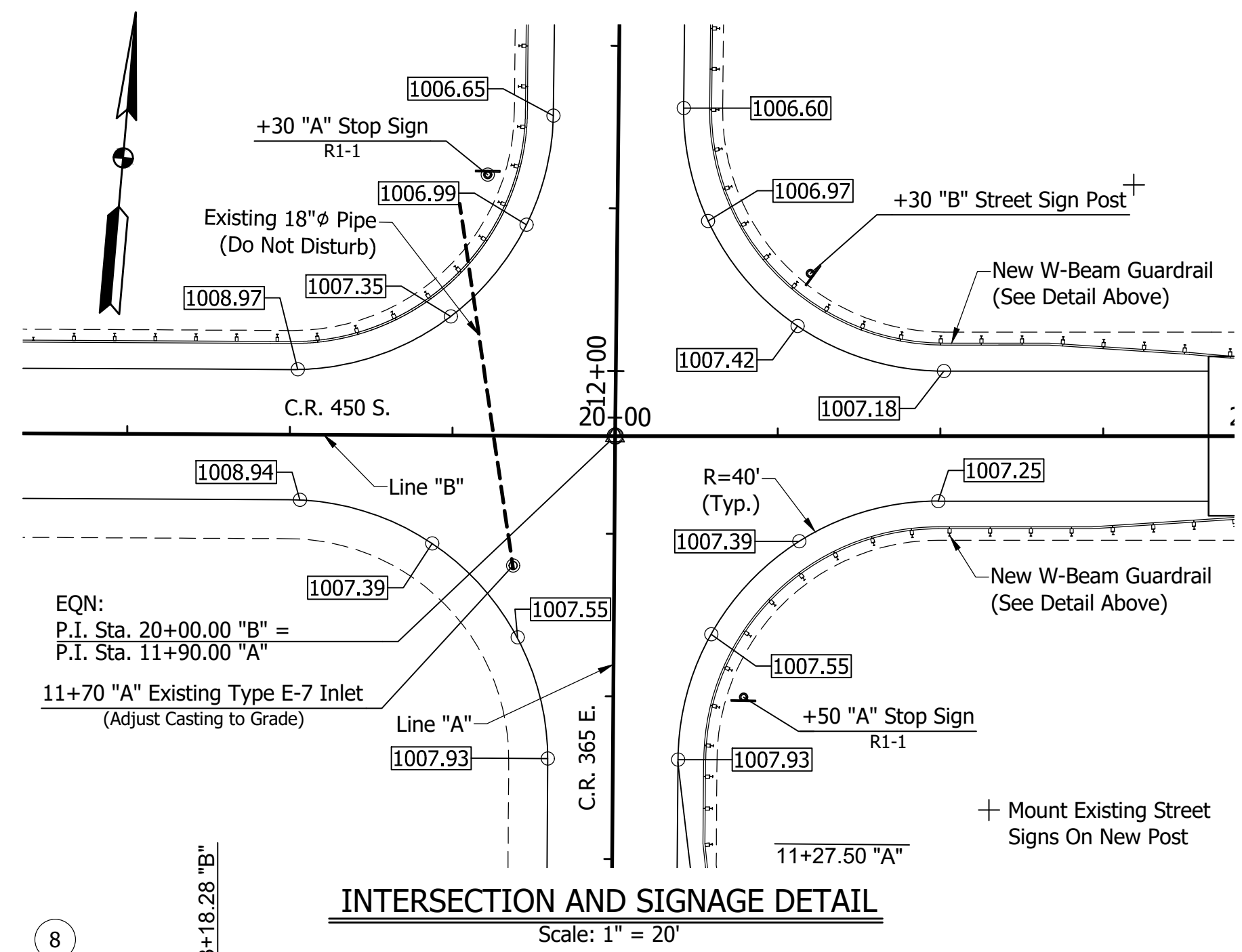
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL APPROACH SECTION

HORIZONTAL SCALE As Noted	BRIDGE FILE RUSH 155
VERTICAL SCALE N/A	DESIGNATION 1802927
SURVEY BOOK ELECTRONIC	SHEET 3 OF 23
CONTRACT B-42074	PROJECT 1802927



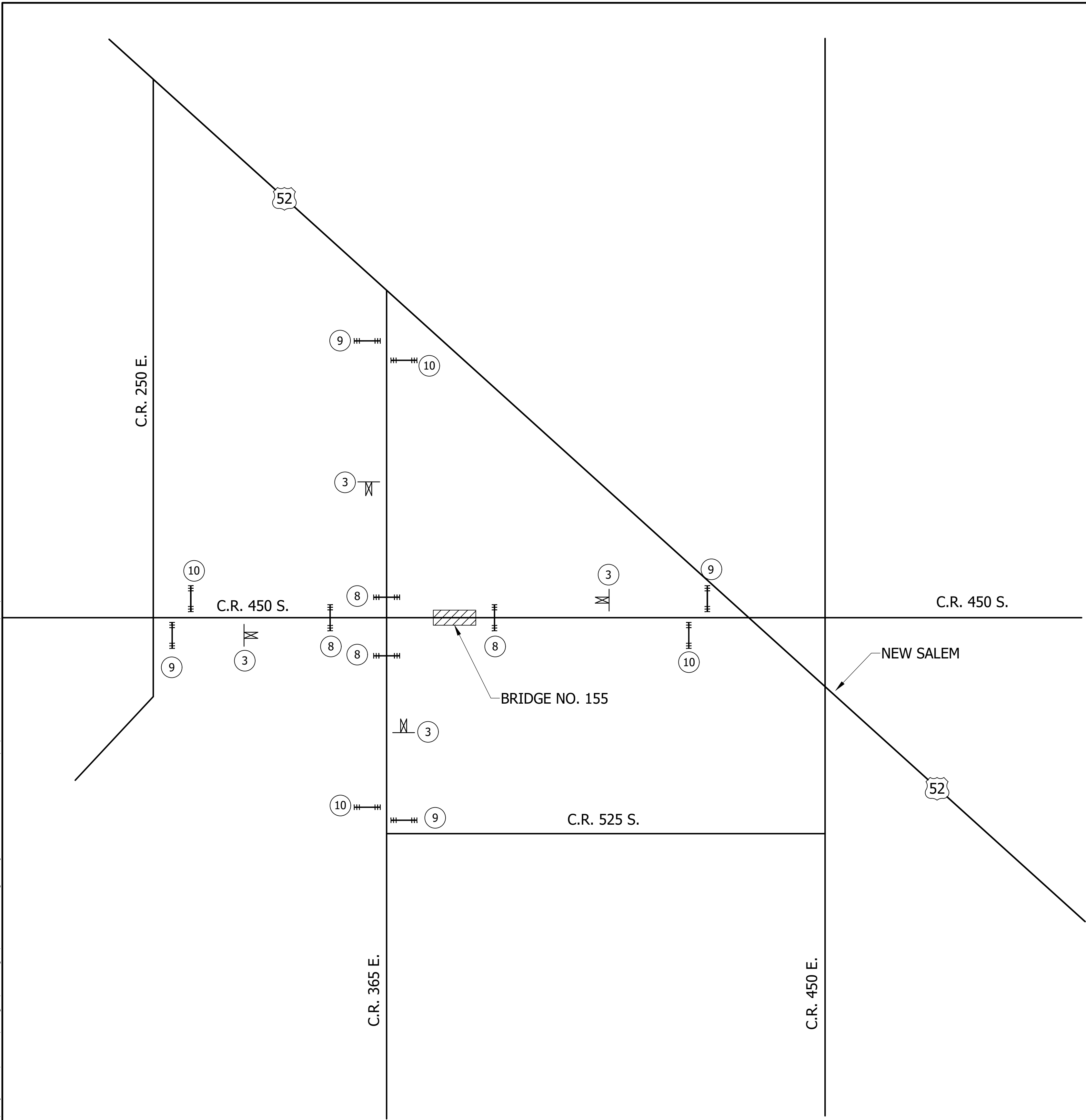
- GUARDRAIL LEGEND**
- 1 Railing Transition, Type TGS-1 (18'-9")
 - 2 56'-3" of W-Beam Guardrail (6'-3" Spacing)
 - 3 Guardrail W-Beam Connector System, Type 2 (R=35'-0")
 - 4 Guardrail End Treatment, Type OS (27" HT.)
 - 5 56'-3" W-Beam Guardrail (6'-3" Spacing)
 - 6 MGS W-Beam Guardrail Height Transition (37'-6")
 - 7 43'-9" MGS W-Beam Guardrail (6'-3" Spacing)
 - 8 Guardrail End Treatment, Type OS (31" HT.)
 - 9 Modified Curved W-Beam Guardrail Connector, Type 1, (R=40'-0")
 - 10 106'-3" W-Beam Guardrail (6'-3" Spacing)
 - 11 6'-3" W-Beam Guardrail (6'-3" Spacing)
 - 12 Guardrail End Treatment, Type 1



RECOMMENDED FOR APPROVAL: _____ DESIGNED: M. MATEL DRAWN: D. PIERCEFIELD CHECKED: Q. O'BRIEN CHECKED: M. MATEL	INDIANA DEPARTMENT OF TRANSPORTATION GUARDRAIL LAYOUT & INTERSECTION DETAIL	HORIZONTAL SCALE As Noted		BRIDGE FILE RUSH 155	
		VERTICAL SCALE N/A		DESIGNATION 1802927	
		SURVEY BOOK ELECTRONIC		SHEET 4 OF 23	
		CONTRACT B-42074		PROJECT 1802927	

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SIGN LEGEND				
SYMBOL	MESSAGE	NUMBER	TYPE	REQ'D.
①	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	A	
	DETOUR	XM4-10(L)	B	
②	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	A	
	DETOUR	XM4-10(R)	B	
③	ROAD CLOSED 1000 FT.	XW20-3	A	4
④	ROAD CLOSED 500 FT.	XW20-3	A	
⑤	DETOUR ROUTE MARKER ASSEMBLY (LEFT)			
⑥	DETOUR ROUTE MARKER ASSEMBLY (RIGHT)			
⑦	DETOUR AHEAD	XW20-2	A	
⑧	STANDARD BARRICADE (TYPE III-A) (24'-0" SECTION) *			4
	ROAD CLOSURE SIGN ASSEMBLY (R11-2)			4
⑨	STANDARD BARRICADE (TYPE III-B) (12' SECTION)			4
	ROAD CLOSURE SIGN ASSEMBLY (R11-2)			4
⑩	STANDARD BARRICADE (TYPE III-B) (12' SECTION)			4
⑪	ROUTE CLOSURE NOTICE	XG20-5	A	
⑫	END DETOUR	M4-8a	B	-

* 2 BARRICADES REQUIRED PER LOCATION. TOTAL QUANTITY = 96'-0"

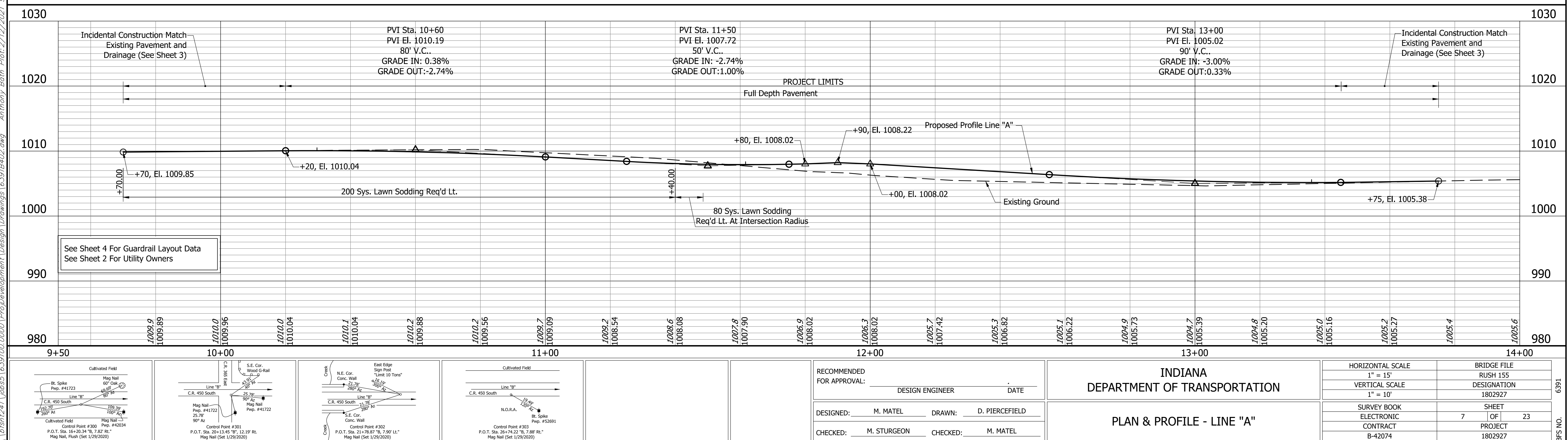
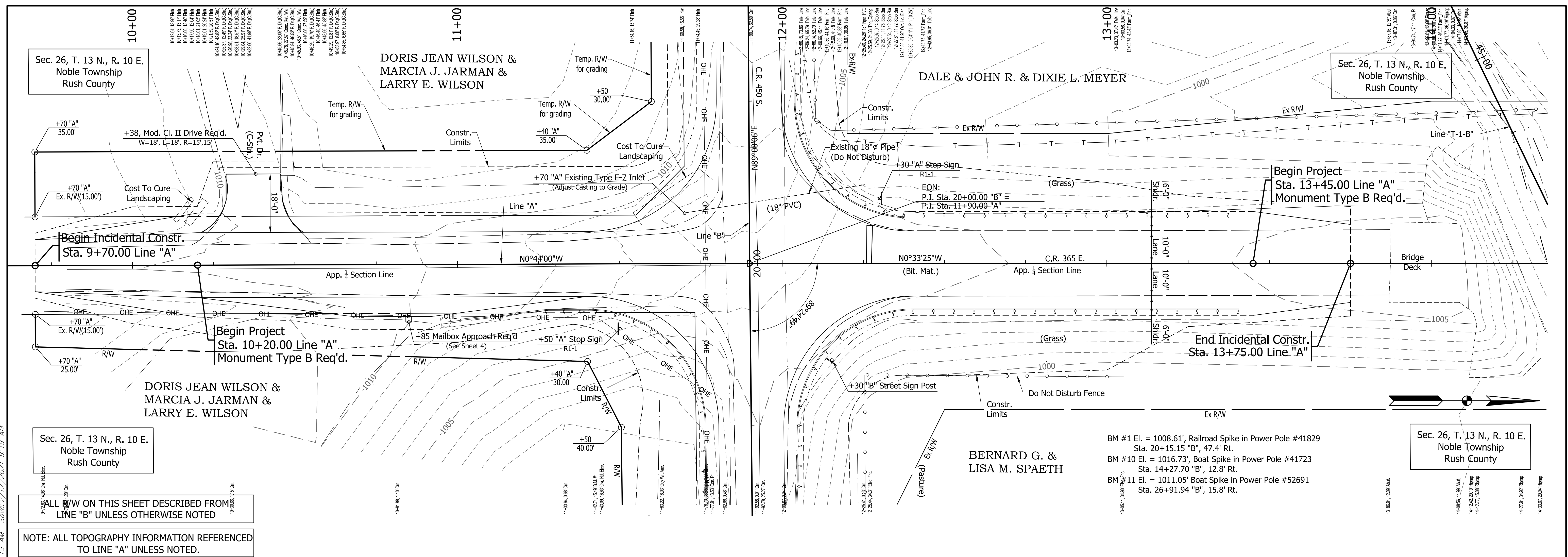
LEGEND

-  TYPE III-A/III-B BARRICADE
-  CONSTRUCTION SIGN TYPE AS SHOWN

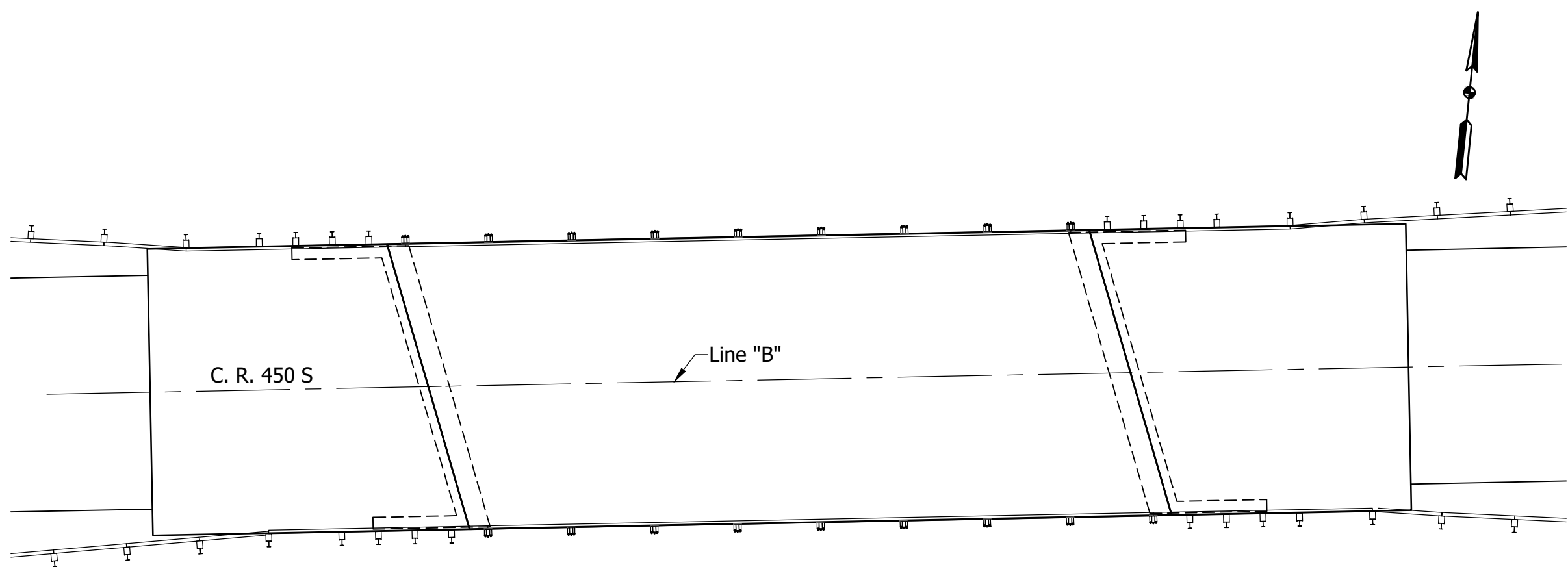
CONSTRUCTION SIGNAGE
Not to Scale

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted	BRIDGE FILE RUSH 155	
	DESIGNED: M. MATEL DRAWN: K. COFFMAN		VERTICAL SCALE N/A	DESIGNATION 1802927	
	CHECKED: Q. O'BRIEN CHECKED: M. MATEL	CONSTRUCTION SIGNAGE	SURVEY BOOK ELECTRONIC	SHEET 5 OF 23	
			CONTRACT B-42074	PROJECT 1802927	

6391
BFS NO.



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BORING LOCATION PLAN
Scale: 3/32" = 1'-0"

Note to Reviewer:
The geotechnical consultant has not been able to complete the field work and obtain the soil borings at this time.
The Stage 2 Plan submittal was not going to be delayed due to this.
The Soil test borings at the bridge will be placed on this sheet when the geotechnical report is completed prior to the Stage 3 submission when all of this information is needed for the design of the bridge.
Mike Matel

PILE LOADING FOR GEOTECHNICAL TESTING		
SUBSTRUCTURE	BENT NO.1	BENT NO.2
PILE SIZE, TYPE AND GRADE		
*FACTORED DESIGN SOIL RESISTANCE, R _R (KIPS)		
RESISTANCE FACTOR, ϕ dyn		
DOWNDRAG LOAD, DD (KIPS)		
MAX. NOMINAL SOIL RESISTANCE, (R _n) (KIPS)		
DOWNDRAG FRICTION, (R _{sdd}) (KIPS)		
SCOUR ZONE FRICTION, (R _{s scour})(KIPS)		
RELAXATION IN SHALE (KIPS)		
NOMINAL DRIVING RESISTANCE, (R _{ndr}) (KIPS)		
ESTIMATED PILE TIP ELEVATION*		
TESTING METHOD		

* ESTIMATED PILE TIP ELEVATION WAS BASED ON THE SOIL INFORMATION OBTAINED IN TB-1 AND TB-2.

STANDARD PENETRATION TEST
Driving 2" O.D. Sampler 1'-6" with 140# Hammer falling 30". Count made at 6" intervals. First 6" for seating sampler. "N" is the Sum of the Hammer Blows of the Second and Third 6" intervals of an 1'-6" Drive.

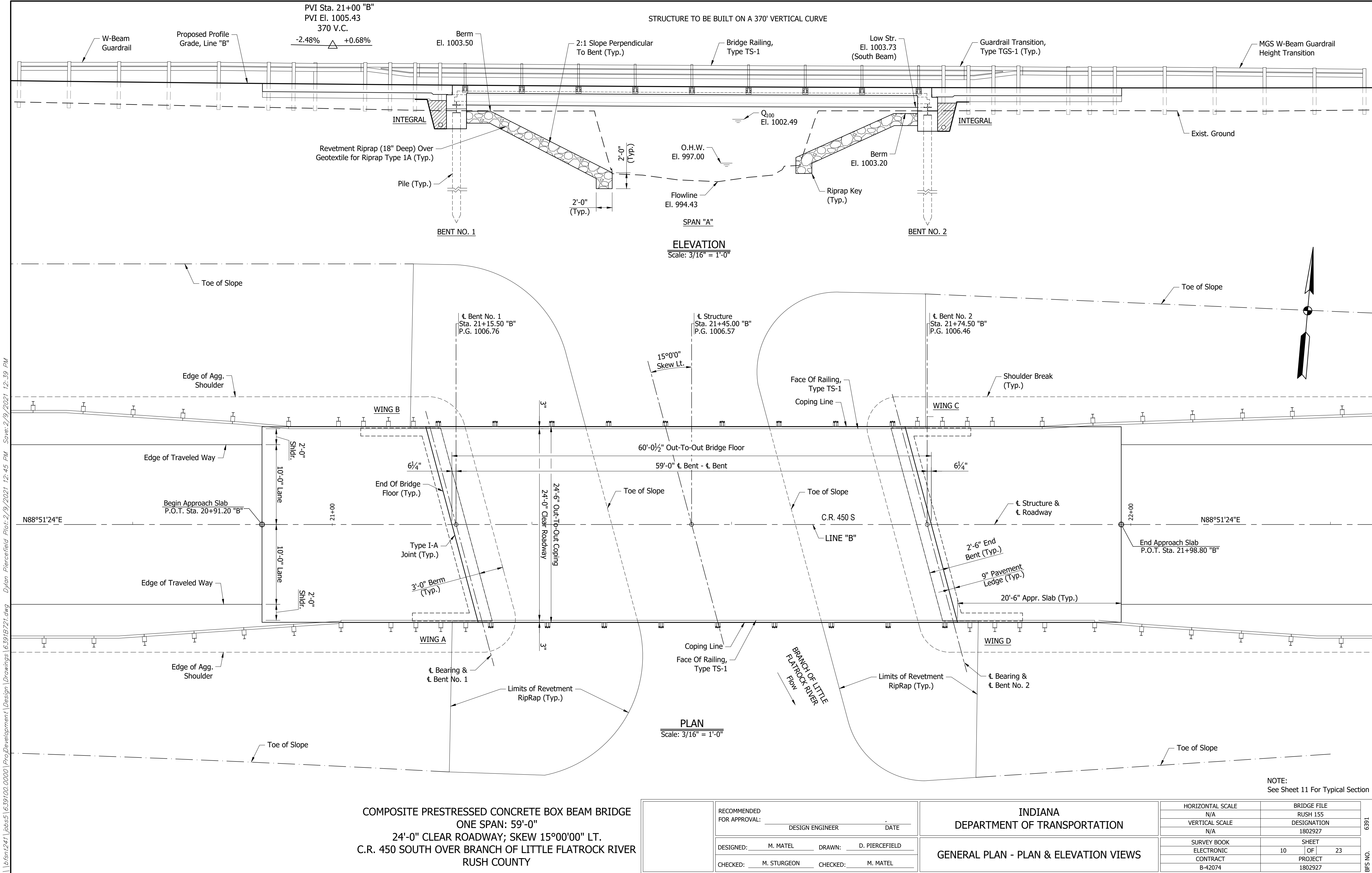
SOIL BORINGS

Notes:
See Sheet X for Additional Soil Borings.

The entire Geotechnical Report developed by Geo Solutions, Inc. will be made available to the Contractor upon request.

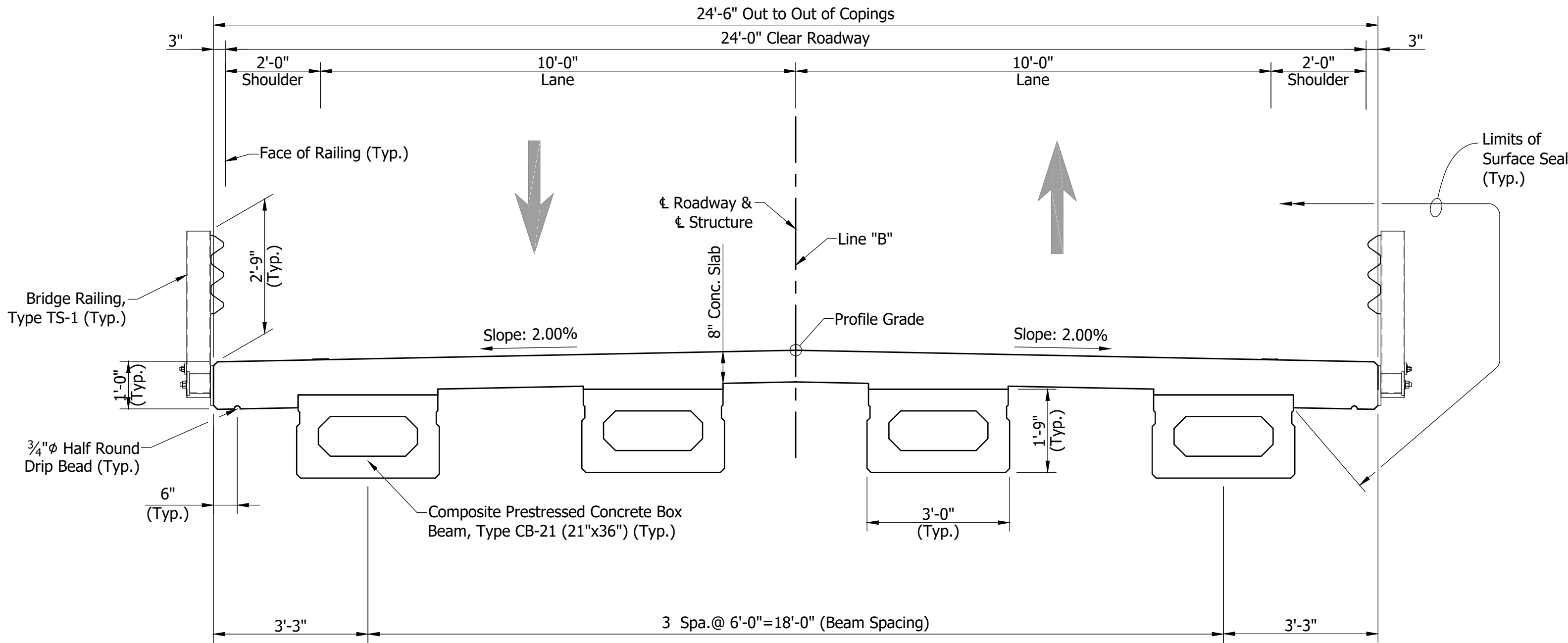
	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE As Noted	BRIDGE FILE RUSH 155
	DESIGNED: M. MATEL DRAWN: K. COFFMAN		VERTICAL SCALE N/A	DESIGNATION 1802927
	CHECKED: Q. O'BRIEN CHECKED: M. MATEL	SOIL BORINGS	SURVEY BOOK ELECTRONIC	SHEET 8 OF 23
			CONTRACT B-42074	PROJECT 1802927

6391
BFS NO.



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TYPICAL SECTION
Scale: 1/2"=1'-0"

GENERAL NOTES

- The existing structure shall be removed.
- Steel H-Piles with shoes shall be driven to the Nominal Driving Resistance.
- Epoxy coated reinforcing bars shall be required in various portions of the structure as shown.
- Reinforcing bars covering shall be 2 ½" in top of approach slabs.
- Reinforcing bars covering shall be 2 ½" in top and 1" in bottom of floor slabs and 2" in all other areas unless noted.
- Reinforcing bars shall be A.S.T.M. A615, Grade 60.
- Concrete shall be Class C in end bents and floor slab.
- Concrete shall be Class A in all portions of the project not noted above.
- Chamfer exposed corners of concrete 1" unless noted.
- Surface seal shall be required on various areas of the structure as shown. Estimated quantity = ____ Sft.

DESIGN DATA

- LIVE LOAD:**
- Designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017 and its subsequent revisions.
- DEAD LOAD:**
- Actual weight plus 35 psf (composite) for future wearing surface and 15 psf for permanent metal deck forms.
- FLOOR SLAB:**
- Designed with a structural depth of 7 ½" plus ½" sacrificial wearing surface.

SEAT ELEVATIONS

- All bridge seat elevations were calculated using design camber of beams, dead load deflection of slab and, where applicable, an allowance for Profile Grade Vertical curve and beam notches so that the top of beam will be 3/4" minimum below the bottom of slab at the center of span unless otherwise noted on the floor details.
- Fillet depth to vary along length of beam to compensate for residual camber of beams, beam notches and Profile Grade Vertical Curve. Actual cambers which are greater or less than design cambers will be accounted for by reducing or increasing the fillets. The beams shall not extend into the slab more than 1"

DESIGN STRESSES

- MATERIAL DESIGN STRENGTHS:**
- Class "C" Concrete F'c = 4,000 p.s.i.
Class "A" Concrete F'c = 3,500 p.s.i.
Reinforcing Steel (Grade 60) Fy = 60,000 p.s.i.
- SEISMIC DESIGN DATA:**
- Seismic Performance Zone TBD
Acceleration Coefficient TBD
Seismic Soil Profile Type TBD

- WIND LOAD:**
- Designed for 70 mph horizontal wind load in accordance with LRFD 3.8.1.

- CONSTRUCTION LOADING:**
- The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. Finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

- DECK FALSEWORK LOADS:**
- Designed for 15 psf for permanent metal stay-in-place deck forms, removable deck forms, and 2 ft. exterior walkway.
- CONSTRUCTION LIVE LOAD:**
- Designed for 20 psf extending 2 ft. past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30 foot length of the deck centered with the finishing machine.
- FINISHING-MACHINE LOAD:**
- 4500 lb distributed over 10 ft. along the coping.

COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE
ONE SPAN: 59'-0"
24'-0" CLEAR ROADWAY; SKEW 15°00'00" LT.
C.R. 450 SOUTH OVER BRANCH OF LITTLE FLATROCK RIVER
RUSH COUNTY

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	
DESIGNED: M. MATEL	DRAWN: D. PIERCEFIELD
CHECKED: M. STURGRON	CHECKED: M. MATEL

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN - TYPICAL SECTION

HORIZONTAL SCALE	BRIDGE FILE
N/A	RUSH 155
VERTICAL SCALE	DESIGNATION
N/A	1802927
SURVEY BOOK	SHEET
ELECTRONIC	11 OF 23
CONTRACT	PROJECT
B-42074	1802927

LAWN SODDING							
LINE	STATIONS			LENGTH (FT)	WIDTH (FT)	QUANTITY (SYS)	NOTES
	BEGIN	END	LT/RT				
"B"	19+00	19+50	RT	50	VARIES	80	
"A" AND "B"				VARIES	VARIES	80	BEHIND INTERSECTION RADIUS
"A"	9+70	11+40	LT	170	VARIES	200	
					TOTAL	360	

MAILBOX ASSEMBLIES					
LOCATION		DESCRIPTION	WIDTH (ft)	MAILBOX ASSEMBLIES REQUIRED	
LT or RT	± BOX STATION			SINGLE	DOUBLE
Line "A"					
RT	10+85	MODIFIED LOW SPEED	6	1	
Line "B"					
LT	23+71	COMBINATION MAILBOX APPROACH AND DRIVE	6	1	
TOTAL				2	

MONUMENT TABLE	
LOCATION	TYPE
19+00 "B"	B
24+90 "B"	B
10+20 "A"	B
13+45 "A"	B

TRAFFIC SIGNS										
LINE	STATION	LT./RT.	SIGN	MESSAGE	SIGNS			POSTS		
					SHEET TYPE	THICK. (INCH)	AREA (SFT.)	NO. OF POSTS	POST TYPE	TOTAL (LFT.)
"A"	11+50	RT	R1-1	STOP	II	0.080	6.3	1	I	14
"A"	12+30	LT	R1-1	STOP	II	0.080	6.3	1	I	14
"B"	20+30	LT	--	--	--	--	--	1	I	14
				TOTALS	II	0.080	12.6	3	I	42

Note: Sign locations and post lengths are approximate. Exact locations and lengths to be determined in the field in accordance with the Indiana Manual on Uniform Traffic Control Devices.

* Street Sign Post. Use Existing County Road Signs

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE N/A	BRIDGE FILE RUSH 155		6391		
			VERTICAL SCALE N/A	DESIGNATION 1802927				
	DESIGNED: _____ M. MATEL _____ DRAWN: _____ K. COFFMAN _____		SURVEY BOOK		SHEET			
	CHECKED: _____ - _____ CHECKED: _____ - _____		ELECTRONIC		12		OF	23
			CONTRACT B-42074		PROJECT 1802927			
		APPROACH TABLES	BFS NO.					

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** Estimated quantity

BFS NO. 6391

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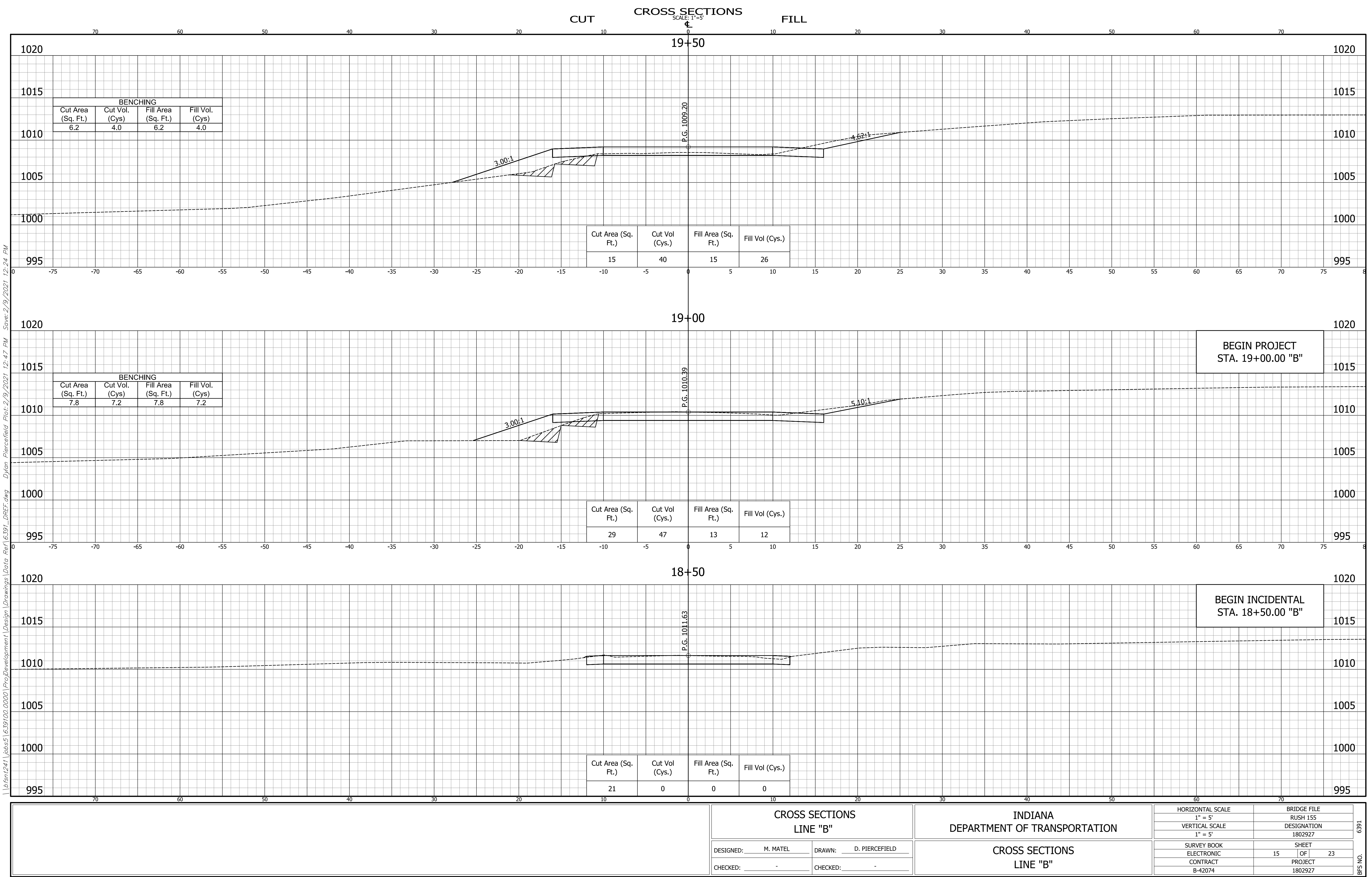
PAVEMENT QUANTITIES AND APPROACH TABLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES				HMA MATERIALS					HMA BASE 25 mm	SEAL COAT TYPE 2	SEAL COAT TYPE 5	HMA MATERIAL FOR:		COMPACTED AGGREGATE FOR BASE NO. 53				COMPACTED AGGREGATE FOR SURFACE NO. 73					REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						COMPACTED AGGREGATE BASE	HMA	CONCRETE												SURFACE 9.5 mm		INTERMD. 19.0 mm		BASE 25.0 mm				PRIME COAT	TACK COAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		FT	FT	FT	FT	SYS	SYS	SYS	1	2	3	4	CUT	FILL	FT	SYS	SYS	SYS	SYS	165	SYS	SYS	275	SYS	SYS	TONS	SYS	SYS	SYS	SYS	8 IN	SYS	SYS	SYS	SYS	SYS	SYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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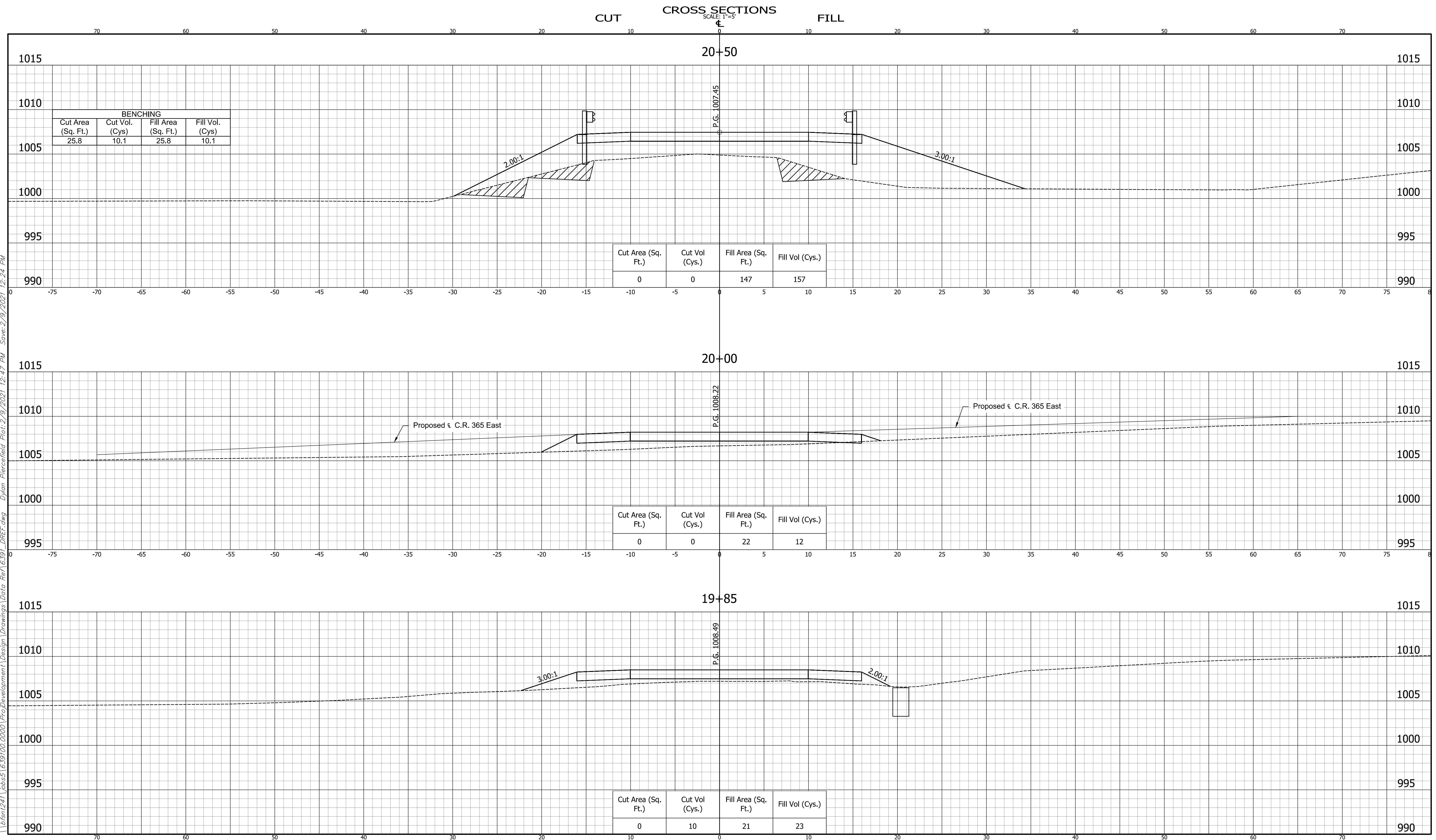
GUARDRAIL SUMMARY TABLE																											
FROM (STATION)	TO (STATION)	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	GUARDRAIL LENGTH							GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE ——	MASH W-BEAM GUARDRAIL HEIGHT TRANSITION .	RAILING TRANSITION TYPE TGS- 1	GUARDRAIL END TREATMENT OS 27 INCH HEIGHT	GUARDRAIL END TREATMENT OS 31 INCH HEIGHT	GUARDRAIL END TREATMENT TYPE I	CURVED W-BEAM GUARDRAIL SYSTEM				GUARDRAIL REMOVE	GUARDRAIL RESET	REMARKS	
						STANDARD POST AT 6'-3" SPA.	STANDARD POST AT 6'-3" SPA. MASH		DOUBLE FACED AT 6'-3" SPA.	LONG POST AT 6'-3" SPA.	LONG POST AT 3'-1 1/2" SPA.	LONG POST AT 1'-6 3/4" SPA.								SHOP CURVED AT 6'-3" SPA.	NESTED GUARDRAIL	CONNECTOR SYSTEM R=35'0"	MODIFIED CONNECTOR SYSTEM R = 40 FT.				
						LFT	LFT		LFT	LFT	LFT	LFT								LFT	LFT	TYPE	EACH				TYPE
19+04.25 "B"	13+38.67 "A"	X				112.5											1			1	1					Connect to Existing Guardrail	
13+40.71 "A"	21+15.16 "B"	X				162.5									1				1	1						Connect to Existing Guardrail	
10+77.50 "A"	21+21.72 "B"				X	56.25									1	1			2	1							
21+68.28 "B"	23+18.28 "B"	X					43.75								1	1	1										
21+74.84 "B"	22+81.09 "B"				X										1	1	1										
						331.25	43.75								2	4	1	2	1		1		2				

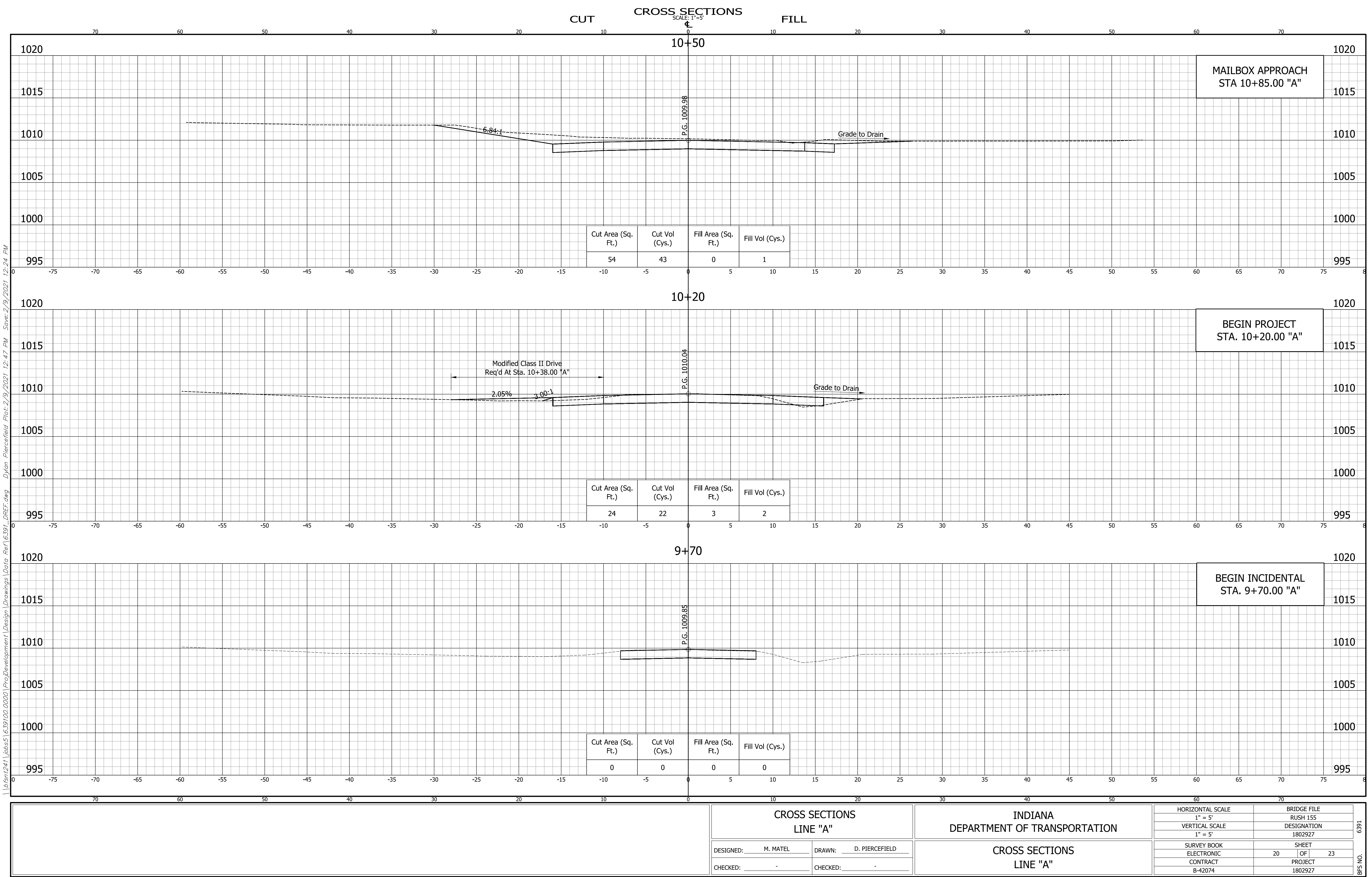
STRUCTURE DATA																												
STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOWLINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL	PAVEMENT REPLACEMENT, HMA	PIPE END SECTION	REVIEWMENT RIPRAP	GEOTEXTILE	GRATED BOX END SECTION		SAFETY METAL END SECTION		RIM ELEVATION	CONNECT TO STRUCTURE	REMARKS
	STATION	LEFT	RIGHT	CROSS						COVER	UP STREAM	DOWN STREAM										TYPE	EA.	SLOPE	EA.			
				IN.				FEET		FEET	ELEV.	ELEV.	YEAR				CYS.	TONS	EA.	TONS	SYS.							
10	21+13 "B"			X	6		END BENT DRAIN PIPE	38.0	15																			LOCATED BEHIND BENT NO. 1
11	21+77 "B"			X	6		END BENT DRAIN PIPE	38.0	15																			LOCATED BEHIND BENT NO. 4

ROAD SUMMARY

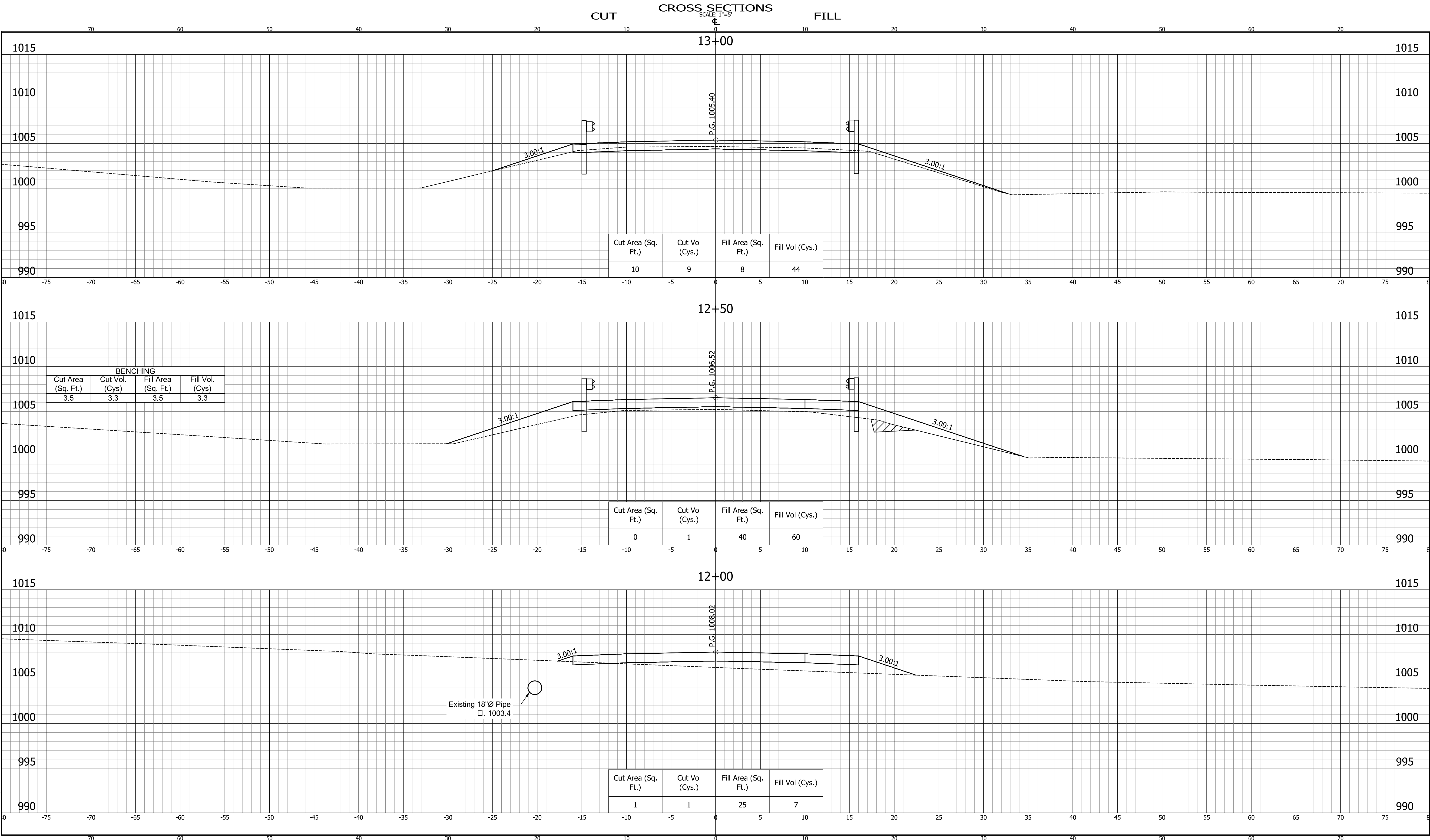
	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE As Noted	BRIDGE FILE RUSH 155	
	DESIGNED: M. MATEL DRAWN: K. COFFMAN	ROAD SUMMARY		VERTICAL SCALE N/A	DESIGNATION 1802927	
	CHECKED: _____ CHECKED: _____			SURVEY BOOK ELECTRONIC	SHEET 14 OF 23	
				CONTRACT B-42074	PROJECT 1802927	







\\bfs01241\jobs\1639100.0000\Proj\Development\Design\Drawings\Data Ref\6391_DBEF.dwg Dylan Piercefield Plot:2/9/2021 12:48 PM Save:2/9/2021 12:24 PM



		CROSS SECTIONS LINE "A"		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 5'	BRIDGE FILE RUSH 155
		DESIGNED: M. MATEL		DRAWN: D. PIERCEFIELD		VERTICAL SCALE 1" = 5'	DESIGNATION 1802927
		CHECKED: -		CHECKED: -		SURVEY BOOK ELECTRONIC	SHEET 22 OF 23
				CROSS SECTIONS LINE "A"		CONTRACT B-42074	PROJECT 1802927

