

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

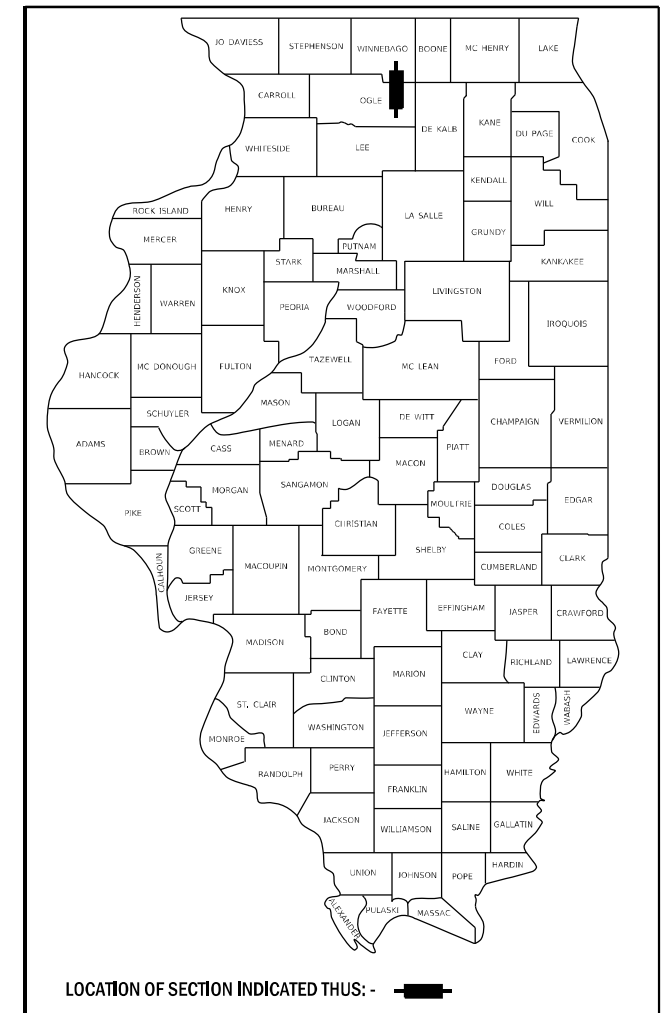
PROPOSED HIGHWAY PLANS

FOR INDEX OF SHEET, SEE SHEET NO. 2
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

FAS ROUTE 1042 (IL 251)
SECTION 106VBR-D
PROJECT STP-ZOBK(342)
REHABILITATION OF ROADWAY AND BRIDGE
CARRYING IL 251 OVER SOO LINE RAILROAD
OGLE COUNTY

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	1
		ILLINOIS	CONTRACT NO. 64L75	

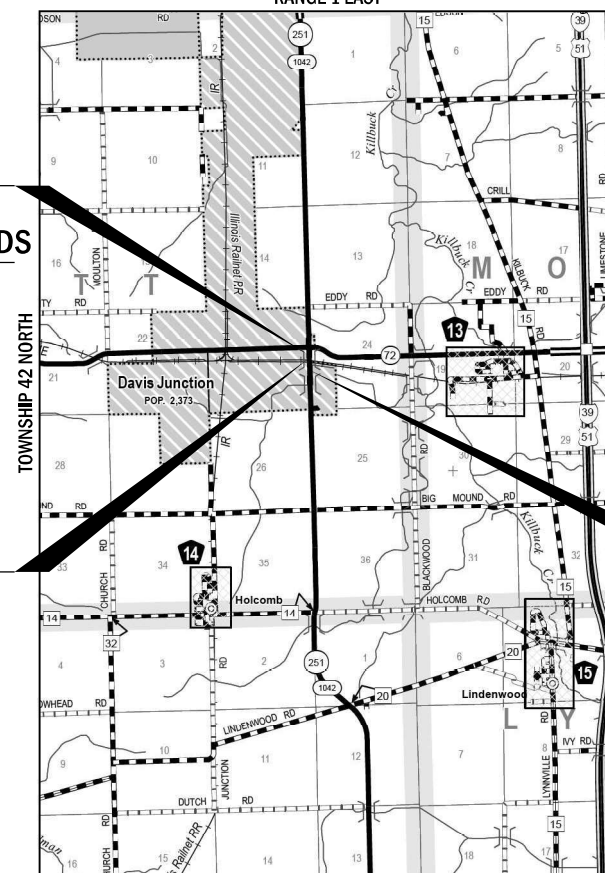
D-92-096-16



C-92-015-17

RANGE 1 EAST

PROJECT ENDS
STA 782+50
IMPROVEMENT ENDS
STA 782+50

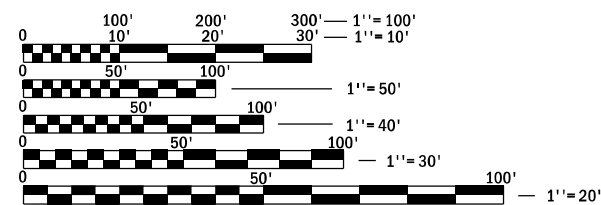


BRIDGE
STA 779+33
EXIST SN 071-0001

PROJECT BEGINS
STA 770+00
IMPROVEMENT BEGINS
STA 765+76.47

GROSS/NET LENGTH = 1,250.00 FT. = 0.237 MILE

TOWNSHIP: SCOTT
SECTIONS: 23 & 24



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

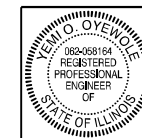
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

DISTRICT 2
PROJECT ENGINEER: ANDREW LEE
PROJECT MANAGER: ROGER ROMERO,
(815)284-5951, ROGER.ROMERO@ILLINOIS.GOV
CONTRACT NO. 64L75

JUNE 23, 2021

Yemi O. Oyewole

YEMI O. OYEWOLE
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-058164
EXPIRATION DATE 11-30-2021
SHEETS 1-41, 77-107



JUNE 23, 2021

Jiahong Zuo

JIAHONG ZUO
ILLINOIS REG. STRUCTURAL ENGINEER NO. 081-006794
EXPIRATION DATE 11-30-2022
SHEETS 42-76



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 06/25 20 21

David Ahmed

REGIONAL ENGINEER

August 13, 2021

Scott A. Etkin

ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2021

James J. Quinn

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Dgn\WO3-4_SIND209616_she-index.dgn

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssundaresan	DESIGNED - KAC	REVISED - R2C13
	DRAWN - VLM	REVISED - R2C14
PLOT SCALE = 1:2	CHECKED - YOO	REVISED - R2C15
PLOT DATE = 6/25/2021	DATE - 06/11/21	REVISED - R2C16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEET AND HIGHWAY STANDARDS
IL 251 OVER SOO LINE RAILROAD**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	2
CONTRACT NO.64L75				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FED	80% FED	
					20% STATE	20% STATE	
					ROADWAY	BRIDGE	
					0004	0013	
					URBAN	URBAN	
	20200100	EARTH EXCAVATION	CU YD	523.0	523.0		
*	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	18.0	18.0		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,315	1,315		
	25100900	TURF REINFORCEMENT MAT	SQ YD	1,365	1,365		
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	98	98		
	28000400	PERIMETER EROSION BARRIER	FOOT	2,120	2,120		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	16	16		
	28200200	FILTER FABRIC	SQ YD	16	16		
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	18.0	18.0		
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,317	1,317		
	31200100	STABILIZED SUBBASE 4"	SQ YD	103	103		
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,809	2,809		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5,996	5,996		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	28	28		

* SPECIALTY ITEMS

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WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcortopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 251 OVER SOO LINE RAILROAD	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:2	DRAWN - VLM	REVISED -			1042	106VBR-D	OGLE	107	4
	PLOT DATE = 6/30/2021	CHECKED - YOO	REVISED -			CONTRACT NO. 64L75				
	DATE - 6/23/21	REVISED -		SCALE:	SHEET 1 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED	80% FED
					20% STATE	20% STATE
					ROADWAY	BRIDGE
					0004	0013
					URBAN	URBAN
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	716	716	
	40602985	HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70	TON	529	529	
	40604052	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N70	TON	29	29	
	40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	222	222	
	42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	140	140	
	44000100	PAVEMENT REMOVAL	SQ YD	211	211	
	44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,636	2,636	
	44000400	GUTTER REMOVAL	FOOT	1,200	1,200	
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	398	398	
	44002244	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 11"	SQ YD	1,162	1,162	
	44004250	PAVED SHOULDER REMOVAL	SQ YD	1,221	1,221	
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	907	907	
	50102400	CONCRETE REMOVAL	CU YD	36.1		36.1
	50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1		1

* SPECIALTY ITEMS

FILE NAME = Z:\2016\160240_PTB1811cad\Cv\1Dgn\W03-4\SHLD\096146-41-500_02.dgn

WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcortopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 251 OVER SOO LINE RAILROAD	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:2	DRAWN - VLM	REVISED -			1042	106VBR-D	OGLE	107	5
	PLOT DATE = 6/30/2021	CHECKED - YOO	REVISED -			CONTRACT NO. 64L75				
	DATE - 6/23/21	REVISED -		SCALE:	SHEET 2 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED	80% FED
					20% STATE	20% STATE
					ROADWAY	BRIDGE
					0004	0013
					URBAN	URBAN
	50157300	PROTECTIVE SHIELD	SQ YD	597		597
	50200100	STRUCTURE EXCAVATION	CU YD	77.7		77.7
	50300225	CONCRETE STRUCTURES	CU YD	50.3		50.3
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	348.4		348.4
	50300260	BRIDGE DECK GROOVING	SQ YD	1,237		1,237
	50300300	PROTECTIVE COAT	SQ YD	1,548		1,548
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	119.4		119.4
	50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	587		587
	50500505	STUD SHEAR CONNECTORS	EACH	360		360
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	145,910		145,910
	51500100	NAME PLATES	EACH	1		1
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	126		126
	52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	12		12
	52100520	ANCHOR BOLTS, 1"	EACH	24		24

* SPECIALTY ITEMS

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WBK ENGINEERING, LLC <small>116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755</small>	USER NAME = kcortopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 251 OVER S00 LINE RAILROAD	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:2	DRAWN - VLM	REVISED -			1042	106VBR-D	OGLE	107	6
	PLOT DATE = 6/30/2021	CHECKED - YOO	REVISED -			CONTRACT NO. 64L75				
	DATE - 6/23/21	REVISED -		SCALE:	SHEET 3 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED	80% FED
					20% STATE	20% STATE
					ROADWAY	BRIDGE
					0004	0013
					URBAN	URBAN
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	85.5		85.5
	58700300	CONCRETE SEALER	SQ FT	849		849
	59000200	EPOXY CRACK INJECTION	FOOT	5		5
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	53		53
	60100945	PIPE DRAINS 12"	FOOT	208	208	
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6.1	6.1	
	60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	1,577	1,577	
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1,738	1,738	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	
	63200310	GUARDRAIL REMOVAL	FOOT	1,838	1,838	
*	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	288	288	
*	63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	1	1	
	63500105	DELINEATORS	EACH	1	1	

* SPECIALTY ITEMS

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SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED	80% FED
					20% STATE	20% STATE
					ROADWAY	BRIDGE
					0004	0013
					URBAN	URBAN
*	66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	1	1	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	115.0	115.0	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	8	8	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
	67100100	MOBILIZATION	L SUM	1	1	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	30	30	
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	6	
*	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	7	7	
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1	
	73000100	WOOD SIGN SUPPORT	FOOT	61	61	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	62,120	62,120	

* SPECIALTY ITEMS

FILE NAME = Z:\2016\160240_PTB1811cad\Cv\Itdgn\W03-4\SHLD\09616-RI-500_05.dgn

	USER NAME = kcortopassi DESIGNED - KAC DRAWN - VLM	REVISED - REVISED - CHECKED - YOO DATE - 6/23/21	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 251 OVER SOO LINE RAILROAD	FAS RTE. = 1042 SECTION = 106VBR-D	COUNTY = OGLE TOTAL SHEETS = 107 SHEET NO. = 8	
	PLOT SCALE = 1:2 PLOT DATE = 6/30/2021	DATE - 6/23/21 REVISED -	SCALE:	SHEET 5 OF 8 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64L75	
	REV. 7/19/21						

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
					80% FED	80% FED
					20% STATE	20% STATE
					ROADWAY	BRIDGE
					0004	0013
					URBAN	URBAN
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
	89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2	2	
	X0323586	PIPE DRAIN REMOVAL	FOOT	208	208	
*	X0323927	MAINTENANCE OF LIGHTING SYSTEM	EACH	1	1	
	X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	10	10	
	X0326806	WASHOUT BASIN	L SUM	1	1	
	X0800001	SHOULDER REMOVAL (SPECIAL)	SQ YD	44	44	
*	X1400349	SOLAR-POWERED FLASHING BEACON INSTALLATION	EACH	2	2	
	X4060310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, SPECIAL	TON	251	251	
	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	342	342	
*	X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1
	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	208	208	
	X6050700	REMOVE INLET BOX	EACH	4	4	

* SPECIALTY ITEMS

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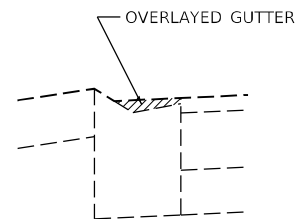
WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = kcortopassi	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 251 OVER SOO LINE RAILROAD	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:2	DRAWN - VLM	REVISED -			1042	106VBR-D	OGLE	107	9
	PLOT DATE = 6/30/2021	CHECKED - YOO	REVISED -			CONTRACT NO. 64L75				
	DATE - 6/23/21	REVISED -		SCALE:	SHEET 6 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FED	80% FED	
					20% STATE	20% STATE	
					ROADWAY	BRIDGE	
					0004	0013	
					URBAN	URBAN	
	X6100120	TYPE E INLET BOX, STANDARD 610001 (SPECIAL)	EACH	4	4		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
	X7010237	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL DA	125	125		
*	X7820007	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)	EACH	26	26		
*	X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	337	337		
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	161	161		
	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	587		587	
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	8,900		8,900	
	Z0003802	REMOVAL OF EXISTING BEARINGS	EACH	12		12	
	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1	
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2		2	
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	10		10	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	227	227		

* SPECIALTY ITEMS

FILE NAME = Z:\2016\160240_PTB1811cad\Cv\Itdgn\W03-4\SHLD\09616-RI-SOQ_07.dgn

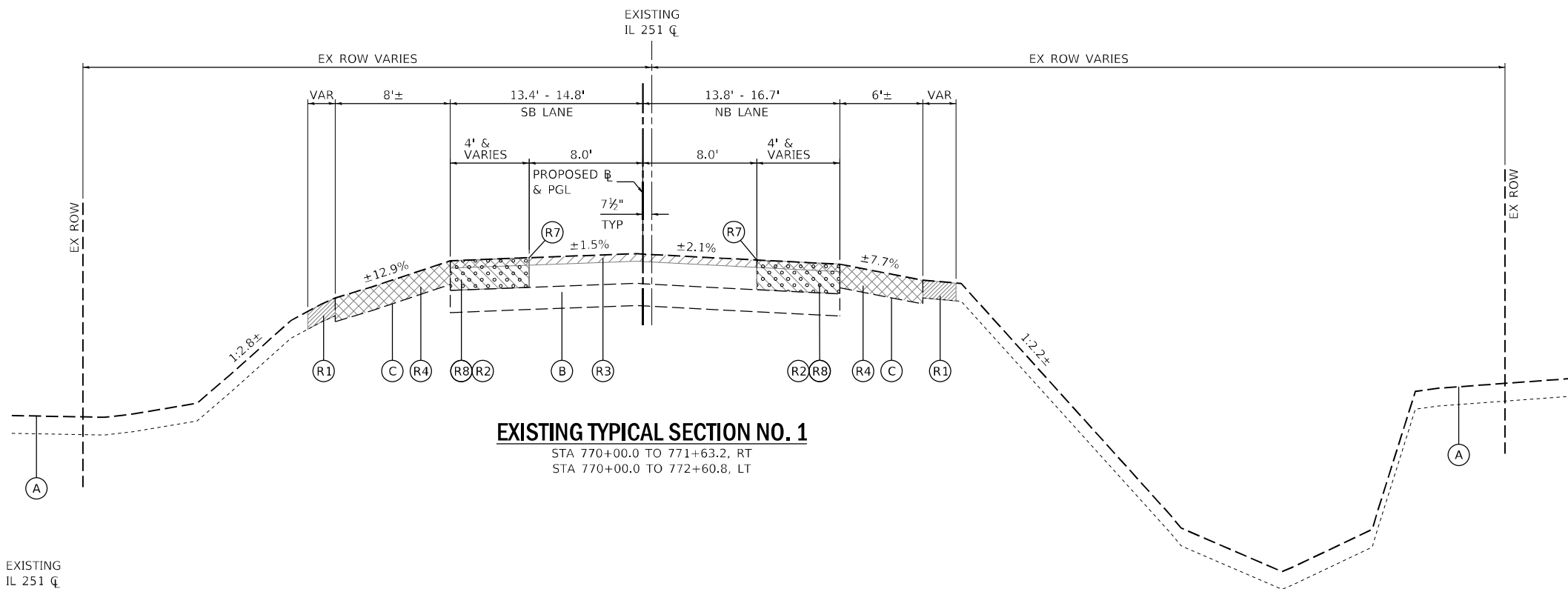


NOTE:

HMA REMOVAL IN THE GUTTER WILL BE INCLUDED IN GUTTER REMOVAL.

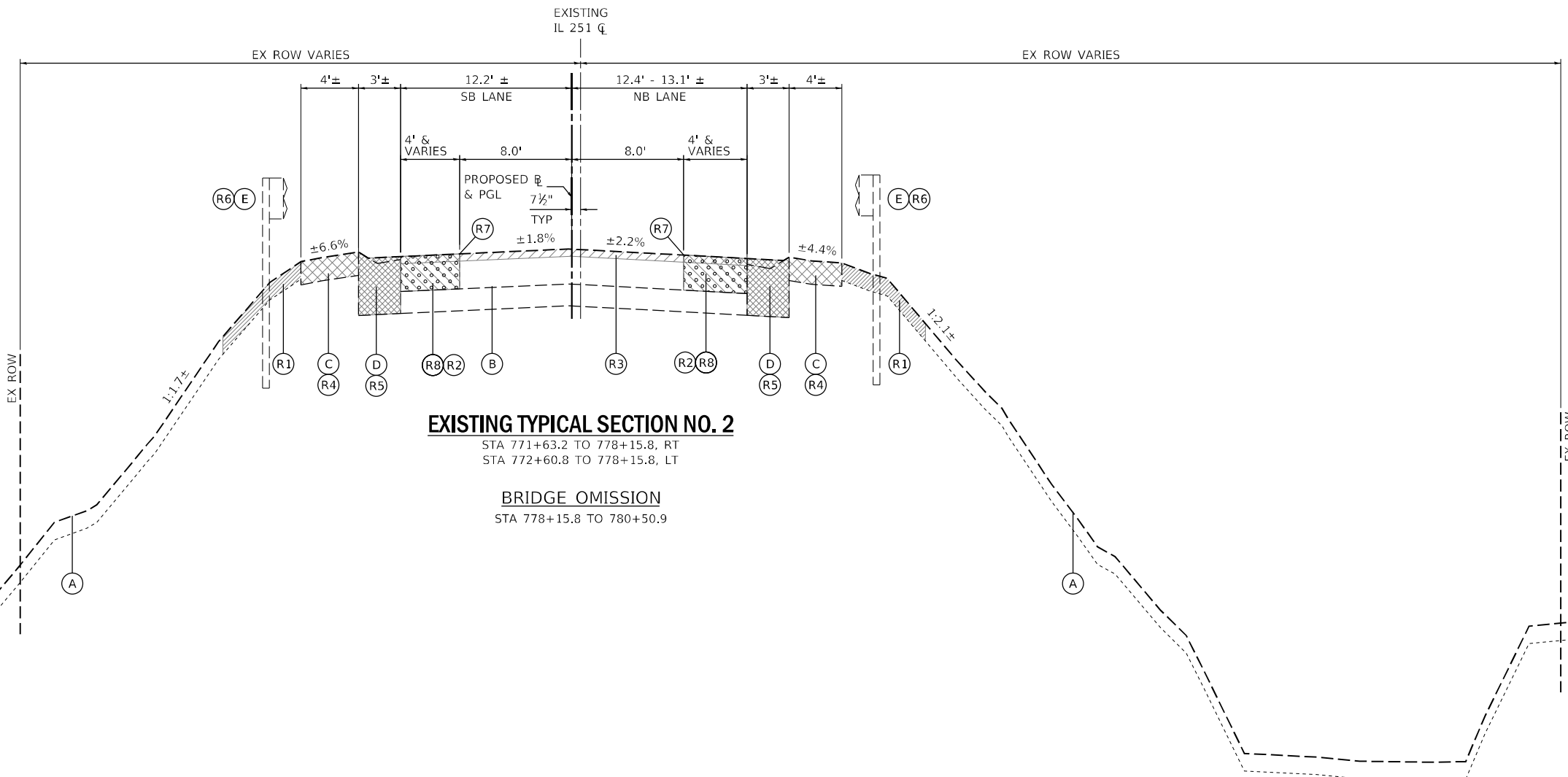
OVERLAYED GUTTER

STA 771+63.2 TO 778+15.8, RT
STA 772+60.8 TO 778+15.8, LT



EXISTING TYPICAL SECTION NO. 1

STA 770+00.0 TO 771+63.2, RT
STA 770+00.0 TO 772+60.8, LT



EXISTING TYPICAL SECTION NO. 2

STA 771+63.2 TO 778+15.8, RT
STA 772+60.8 TO 778+15.8, LT

BRIDGE OMISSION

STA 778+15.8 TO 780+50.9

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING PAVEMENT
TOP - BITUMINOUS 8.0" - 13.5" (10.6" AVG)
BOT - CONCRETE 5.0" - 10.5" (7.5" AVG)
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING CURB & GUTTER
- (E) EXISTING GUARDRAIL

REMOVALS LEGEND

- (R1) TOPSOIL STRIPPING, 4" [diagonal lines]
- (R2) HOT-MIX ASPHALT REMOVAL OVER PATCHES, 11" [diagonal lines]
- (R3) HMA SURFACE COURSE REMOVAL, 2 1/2" [diagonal lines]
- (R4) PAVED SHOULDER REMOVAL [cross-hatch]
- (R5) CURB & GUTTER REMOVAL [cross-hatch]
- (R6) GUARDRAIL REMOVAL [diagonal lines]
- (R7) SAWCUT [dashed line]
- (R8) HMA REPLACEMENT OVER PATCHES [stippled]

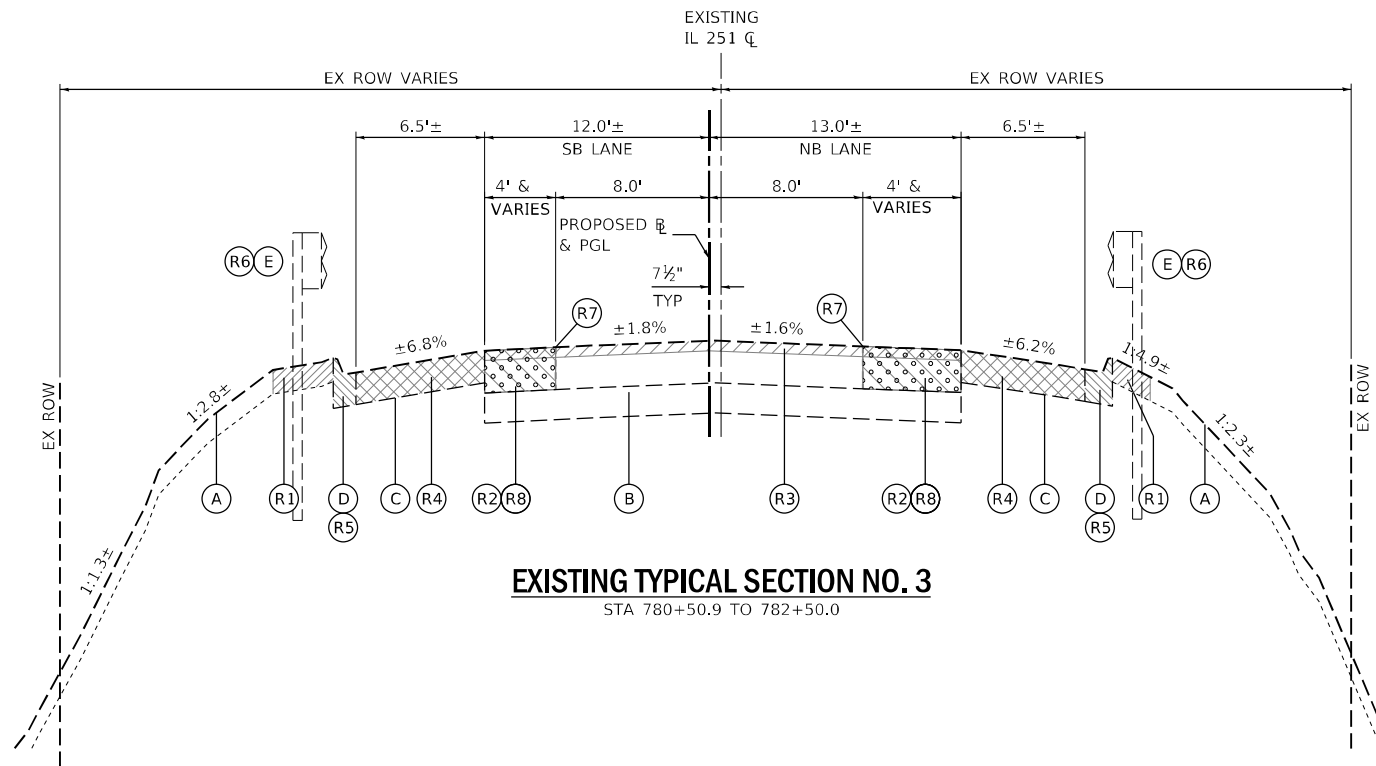
NOTES

1. THE EXISTING HMA PAVEMENT OVERLAY VARIES FROM 8.0" TO 13.5". NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR HMA ASPHALT REMOVAL OVER PATCHES GREATER THAN THE 11" SPECIFIED.

FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Typical\16-rt-tyr_01.dgn

USER NAME = ssuncioresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	12
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION NO. 3
STA 780+50.9 TO 782+50.0

NOTES

1. THE EXISTING HMA PAVEMENT OVERLAY VARIES FROM 8.0" TO 13.5". NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR HMA ASPHALT REMOVAL OVER PATCHES GREATER THAN THE 11" SPECIFIED.
2. THE TOP 1 1/2" OF SHOULDER SURFACE COURSE SHALL BE PAVED AT THE SAME TIME ACROSS THE 6' WIDE SHOULDER.

EXISTING LEGEND

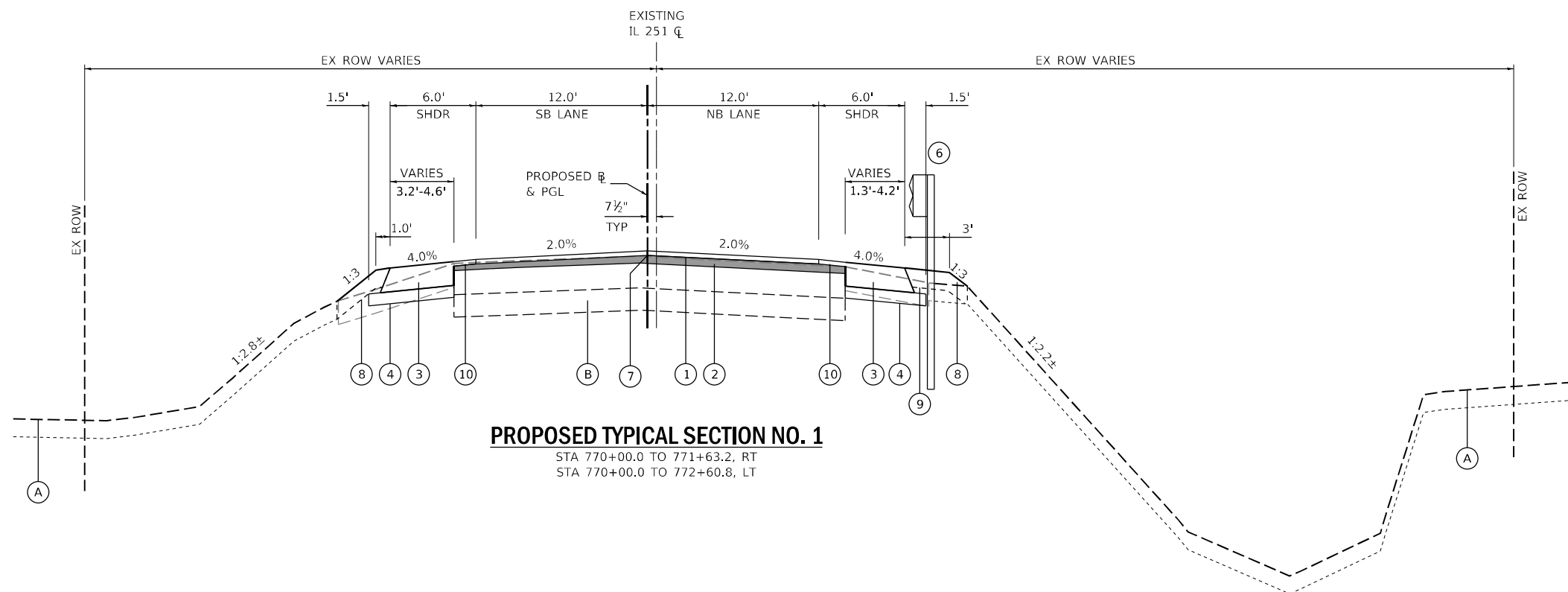
- (A) EXISTING GROUND
- (B) EXISTING PAVEMENT
TOP - BITUMINOUS 8.0" - 13.5" (10.6" AVG)
BOT - CONCRETE 5.0" - 10.5" (7.5" AVG)
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING CURB & GUTTER
- (E) EXISTING GUARDRAIL

REMOVALS LEGEND

- (R1) TOPSOIL STRIPPING, 4" [Pattern]
- (R2) HOT-MIX ASPHALT REMOVAL OVER PATCHES [Pattern]
- (R3) HMA SURFACE COURSE REMOVAL, 2 1/2" [Pattern]
- (R4) PAVED SHOULDER REMOVAL [Pattern]
- (R5) CURB & GUTTER REMOVAL [Pattern]
- (R6) GUARDRAIL REMOVAL
- (R7) SAWCUT
- (R8) HMA REPLACEMENT OVER PATCHES [Pattern]

PROPOSED LEGEND

- (1) 1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "D", N70
- (2) HMA BINDER COURSE, IL-9.5, N70 (1.25" MIN. & VAR)
- (3) HMA SHOULDERS, 8"
8" HMA SHOULDER SHALL INCLUDE THE FOLLOWING
1 1/2" OF HMA SURFACE COURSE, IL-9.5, MIX "C", N70 &
6 1/2" OF HMA BINDER COURSE, IL-9.5, N70
- (4) SUBBASE GRANULAR MATERIAL, TY B, 4"
- (5) COMBINED CONCRETE CURB & GUTTER, TY M4.12
- (6) STEEL PLATE BEAM GUARDRAIL, TY A (9-FT POSTS)
- (7) LONGITUDINAL JOINT SEALANT
- (8) TOPSOIL PLACEMENT, 4" W/ SEEDING (AS SPECIFIED)
- (9) GUARDRAIL AGGREGATE EROSION CONTROL
- (10) 1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "C", N70 (AFTER JOINT TRIMMING)



PROPOSED TYPICAL SECTION NO. 1
STA 770+00.0 TO 771+63.2, RT
STA 770+00.0 TO 772+60.8, LT

FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Typ\02.dgn

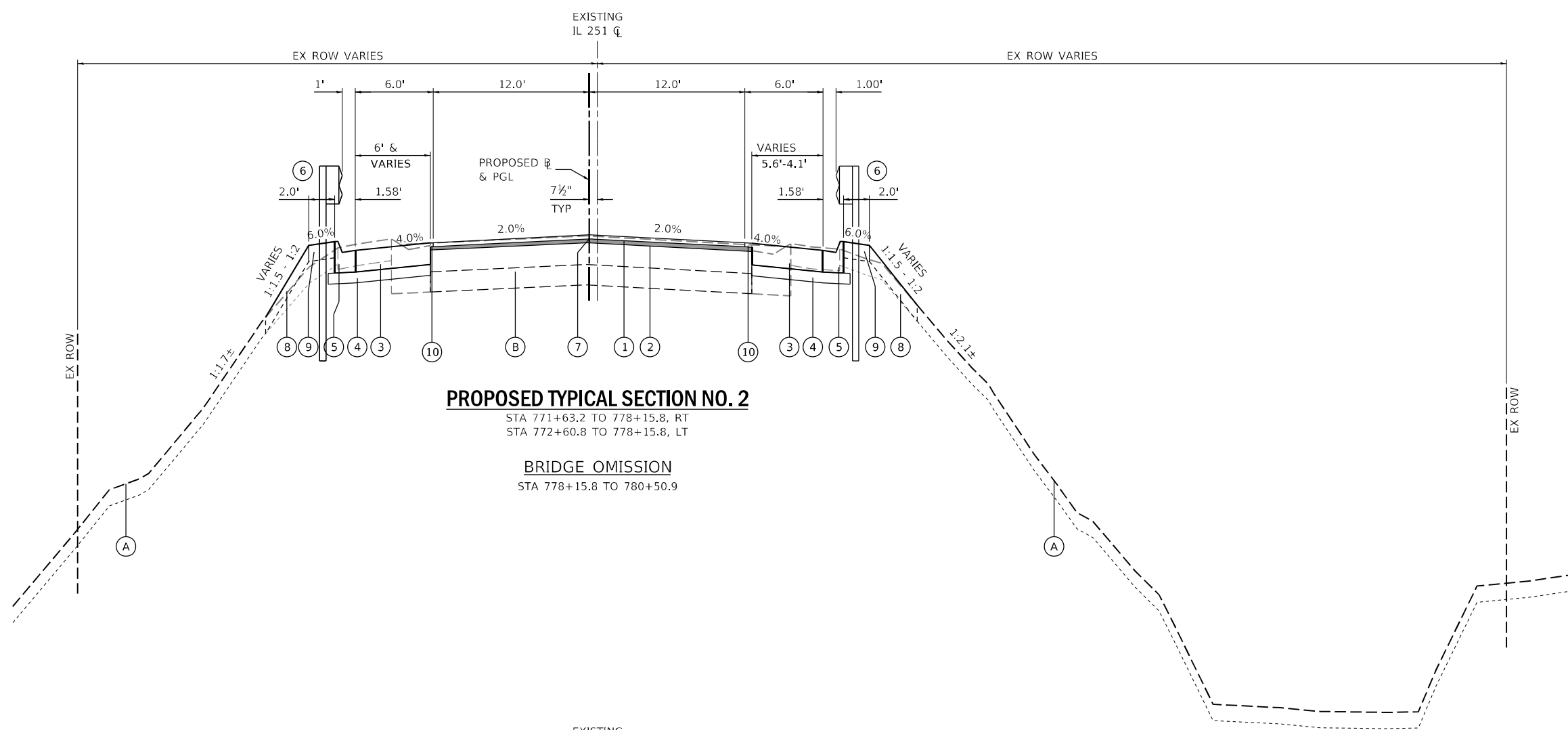
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ssuncioresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS IL 251 OVER SOO LINE RAILROAD			
SCALE:	SHEET 2	OF 3	SHEETS
	STA.		TO STA.

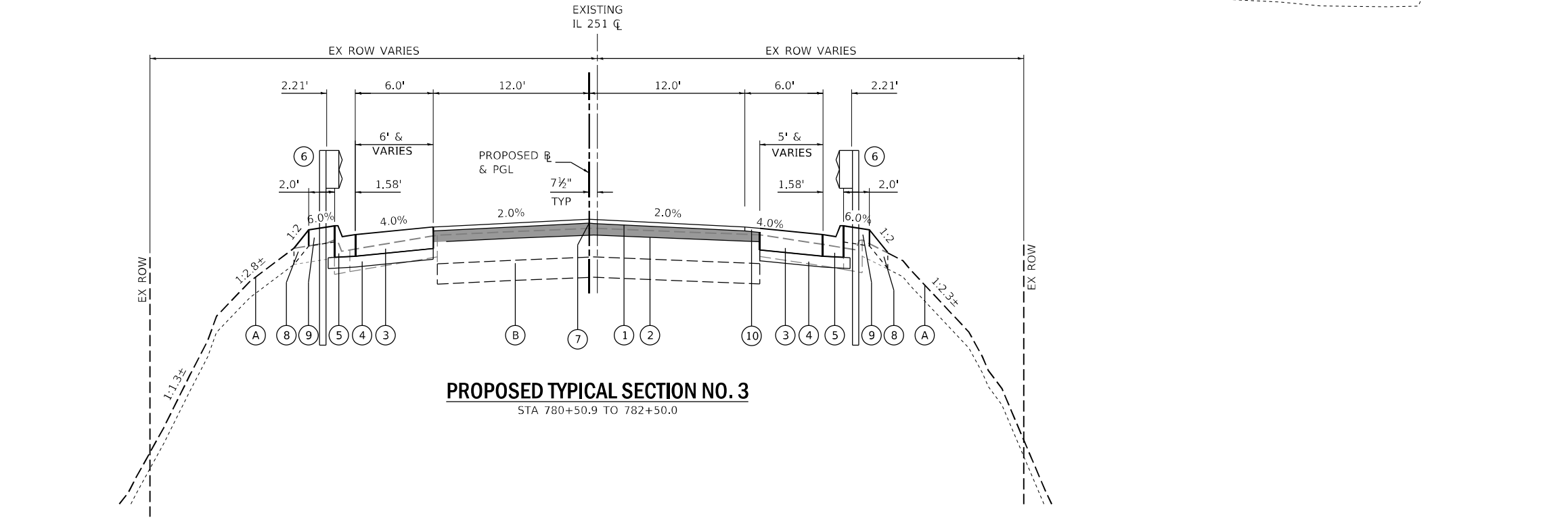
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	13
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION NO. 2

STA 771+63.2 TO 778+15.8, RT
 STA 772+60.8 TO 778+15.8, LT

BRIDGE OMISSION
 STA 778+15.8 TO 780+50.9



PROPOSED TYPICAL SECTION NO. 3

STA 780+50.9 TO 782+50.0

NOTES

1. EXTEND PR. SUBBASE GRANULAR MATERIAL, TY. B, 4", 6" BEYOND BACK OF CURB.
2. THE EXISTING HMA PAVEMENT OVERLAY VARIES FROM 8.0" TO 13.5". NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR HMA ASPHALT REMOVAL OVER PATCHES GREATER THAN THE 11" SPECIFIED.
3. THE TOP 1 1/2" OF SHOULDER SURFACE COURSE SHALL BE PAVED AT THE SAME TIME ACROSS THE 6' WIDE SHOULDER.

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING PAVEMENT
TOP - BITUMINOUS 8.0" - 13.5" (10.6" AVG)
BOT - CONCRETE 5.0" - 10.5" (7.5" AVG)
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING CURB & GUTTER
- (E) EXISTING GUARDRAIL

REMOVALS LEGEND

- (R1) TOPSOIL STRIPPING, 4" [diagonal hatching]
- (R2) PAVEMENT REMOVAL (FULL DEPTH) [diagonal hatching]
- (R3) HMA SURFACE COURSE REMOVAL, 2 1/2" [diagonal hatching]
- (R4) PAVED SHOULDER REMOVAL [cross-hatching]
- (R5) CURB & GUTTER REMOVAL [cross-hatching]
- (R6) GUARDRAIL REMOVAL [cross-hatching]
- (R7) SAWCUT [dashed line]
- (R8) HMA REPLACEMENT OVER PATCHES [stippled pattern]

PROPOSED LEGEND

- (1) 1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "D", N70
- (2) HMA BINDER COURSE, IL-9.5, N70 (1.25" MIN. & VAR)
- (3) HMA SHOULDERS, 8"
8" HMA SHOULDER SHALL INCLUDE THE FOLLOWING
1 1/2" OF HMA SURFACE COURSE, IL-9.5, MIX "C", N70 &
6 1/2" OF HMA BINDER COURSE, IL-9.5, N70
- (4) SUBBASE GRANULAR MATERIAL, TY B, 4"
- (5) COMBINED CONCRETE CURB & GUTTER, TY M4.12
- (6) STEEL PLATE BEAM GUARDRAIL, TY A (9-FT POSTS)
- (7) LONGITUDINAL JOINT SEALANT
- (8) TOPSOIL PLACEMENT, 4" W/ SEEDING (AS SPECIFIED)
- (9) GUARDRAIL AGGREGATE EROSION CONTROL
- (10) 1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "C", N70 (AFTER JOINT TRIMMING)

FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Typ\WO3-4\SHRD209616-sh-rty_03.dgn

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssunaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS IL 251 OVER SOO LINE RAILROAD			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	14
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION	END AREAS					TOPSOIL			EARTHWORK		
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	EXCAVATION (CUT)	EMBANKMENT (FILL)	UNDERCUT	20200100 TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	20200100 EARTHWORK EXCAVATION	EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
MAINLINE											
769+50.00	0.0	0.0	0.0	0.0							
770+00.00	1.7	1.6	12.9	0.4		1.6	1.5	1.6	11.9	0.4	8.5
770+50.00	1.2	2.4	8.6	1.8		2.6	3.7	2.6	19.8	2.1	12.8
771+00.00	0.9	2.5	10.3	3.0		1.9	4.5	1.9	17.5	4.4	8.7
771+50.00	6.8	7.8	10.0	15.2		7.1	9.6	7.1	18.8	16.8	-2.7
772+00.00	3.2	3.7	7.3	7.9		9.3	10.6	9.3	16.1	21.4	-9.3
772+50.00	4.9	5.2	8.7	10.0		7.5	8.2	7.5	14.8	16.6	-5.5
773+00.00	5.0	5.1	8.8	7.7		9.1	9.5	9.1	16.1	16.5	-4.4
773+50.00	3.7	3.6	8.0	3.7		8.0	8.0	8.0	15.5	10.5	1.1
774+00.00	3.8	3.7	9.7	3.1		7.0	6.7	7.0	16.4	6.3	6.0
774+50.00	2.8	2.8	9.8	3.6		6.2	6.0	6.2	18.1	6.2	7.4
775+00.00	3.2	3.3	9.6	5.7		5.6	5.7	5.6	17.9	8.6	4.8
775+50.00	3.9	4.0	8.5	7.7		6.6	6.8	6.6	16.7	12.4	0.1
776+00.00	3.8	4.1	8.3	9.3		7.1	7.5	7.1	15.6	15.7	-4.0
776+50.00	4.0	4.4	7.8	10.7		7.3	7.8	7.3	14.9	18.5	-7.3
777+00.00	4.0	4.8	7.3	9.9		7.4	8.5	7.4	13.9	19.0	-8.6
777+50.00	3.2	3.9	10.6	10.0		6.6	8.1	6.6	16.5	18.4	-6.0
777+85.82	3.6	3.3	17.5	6.5		4.5	4.8	4.5	18.6	10.9	3.1
778+15.85	0.0	0.0	11.6	0.0		2.0	1.8	2.0	16.2	3.6	8.6
BRIDGE											
780+50.86	0.0	0.0	12.6	0.0							
780+80.86	3.8	3.1	18.8	3.8		2.1	1.7	2.1	17.4	2.1	11.0
781+00.00	1.7	2.2	9.4	2.0		1.9	1.9	1.9	10.0	2.1	5.4
781+50.00	3.6	4.1	9.1	4.6		4.9	5.8	4.9	17.2	6.1	6.8
782+00.00	3.4	3.9	9.9	3.8		6.5	7.4	6.5	17.6	7.8	5.4
782+50.00	3.3	3.3	13.3	1.9		6.3	6.7	6.3	21.5	5.3	10.8
783+00.00	0.0	0.0	0.0	0.0		3.1	3.1	3.1	12.3	1.8	7.4
SHRINKAGE FACTOR			25%		TOTAL	132.2	145.9	132.2	391.3	233.5	60.0
					ADJ. TOTAL	133.0	146.0	133.0	392.0	234.0	60.0

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PAVEMENT SCHEDULE

LOCATION	30300001	31101200		40600275	40600290	40601005	40602985	40604052	40604062	48203029		60608562		X4060310	Z0033700
	AGGREGATE SUBGRADE IMPROVEMENT	SUBBASE GRANULAR MATERIAL, TYPE B 4"		BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N70 (SEE NOTE 1)	HOT-MIX ASPHALT SURFACE COURSE, IL- 9.5, MIX "C", N70	HOT-MIX ASPHALT SURFACE COURSE, IL- 9.5, MIX "D", N70	HOT-MIX ASPHALT SHOULDERS, 8"		COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12		HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, SPECIAL	LONGITUDINAL JOINT SEALANT
	(CU YD)	(SQ YD)		(POUND)	(POUND)	(TON)	(TON)	(TON)	(TON)	(SQ YD)		(FOOT)		(TON)	(FOOT)
		LT	RT							LT	RT	LT	RT		CENTERLINE
ILLINOIS 251															
769+50.00 - 770+00.00															
770+00.00 - 770+50.00		28.99	27.74	149.29	242.64	40.13	13.89	1.74	12.94	20.65	19.41				50.00
770+50.00 - 771+00.00		33.60	31.54	150.00	244.56	38.58	20.96	1.53	12.73	25.27	23.21				50.00
771+00.00 - 771+50.00		33.04	31.50	150.00	246.59	39.51	26.79	1.65	12.85	24.26	22.71				50.00
771+50.00 - 772+00.00		34.52	33.06	150.00	246.12	41.05	37.78	1.86	12.71	22.97	21.51	33.00	33.00		50.00
772+00.00 - 772+50.00		31.39	30.94	150.00	246.88	44.29	40.57	2.31	12.56	19.83	19.39	50.00	50.00		50.00
772+50.00 - 773+00.00		29.25	28.64	150.00	242.88	47.02	32.51	2.68	12.00	17.69	17.09	50.00	50.00		50.00
773+00.00 - 773+50.00		30.44	26.49	150.00	242.42	47.62	29.19	2.76	11.91	18.88	14.93	50.00	50.00		50.00
773+50.00 - 774+00.00		30.84	27.34	150.00	240.44	46.84	21.46	2.65	11.78	19.29	15.79	50.00	50.00		50.00
774+00.00 - 774+50.00		30.96	29.36	150.00	237.08	45.52	13.16	2.47	11.56	19.40	17.80	50.00	50.00		50.00
774+50.00 - 775+00.00		31.70	30.36	150.00	235.91	44.45	16.00	2.33	11.52	20.15	18.81	50.00	50.00		50.00
775+00.00 - 775+50.00		32.81	30.97	150.00	235.25	43.40	22.68	2.18	11.53	21.25	19.41	50.00	50.00		50.00
775+50.00 - 776+00.00		37.08	34.96	150.00	231.85	38.30	28.23	1.49	11.56	25.52	23.41	50.00	50.00		50.00
776+00.00 - 776+50.00		42.51	42.67	150.00	226.21	30.21	34.98	0.39	11.59	30.95	31.11	50.00	50.00		50.00
776+50.00 - 777+00.00		41.87	41.44	150.00	228.81	31.36	49.90	0.54	11.75	30.31	29.88	50.00	50.00		50.00
777+00.00 - 777+50.00		44.37	45.17	154.92	225.26	28.88	52.14	0.21	11.40	32.81	33.61	50.00	50.00		50.00
777+50.00 - 778+00.00		21.00	21.17	74.62	97.74	11.91	20.26	0.06	4.75	16.11	16.27	35.90	35.90		20.80
778+00.00 - 778+50.00															
BRIDGE OMISSION															
780+00.00 - 780+50.00															
780+50.00 - 781+00.00		4.73	4.06	15.17	20.67	2.63	2.73	0.04	1.01	3.51	2.88	19.20	19.20		4.10
781+00.00 - 781+50.00		49.64	40.99	164.21	233.85	30.77	29.64	0.59	11.66	38.08	29.43	50.00	50.00		50.00
781+50.00 - 782+00.00		44.90	38.72	150.00	228.45	31.17	23.80	0.54	11.72	33.35	27.16	50.00	50.00		50.00
782+00.00 - 782+50.00		43.98	41.97	149.97	233.69	32.07	12.28	0.64	11.84	32.43	30.41	50.00	50.00		50.00
782+50.00 - 783+00.00															
GOOD NEIGHBOR					1608.00									251.00	
R.E. DISCRETION	18.00														
TOTAL	18.00	677.61	639.09	2808.17	5995.30	715.71	528.95	28.68	221.36	472.70	434.22	788.10	788.10	251.00	924.90
ADJUSTED TOTAL	18	1317		2809	5996	716	529	29	222	907		1577		251	925

NOTE 1: THE HMA BINDER COURSE WAS QUANTIFIED BY CALCULATING THE VOLUME (CU FT) BY METHOD OF AVERAGE END AREAS AND MULTIPLYING THE VOLUME (CU FT) BY 0.0725 TONS/CU FT TO GET THE TONNAGE.

FILE NAME = Z:\2016\160240_P1B1B1\cadd\Civil\p1b1\16-ill-schedule_03.dgn

PAVEMENT REMOVAL SCHEDULE

LOCATION	40600982		44000100		44000159	44000400		44000500		44002244		44004250		63200310		X0800001		X4400196	
	HMA SURFACE REMOVAL - BUTT JOINT		PAVEMENT REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	GUTTER REMOVAL		COMBINATION CURB AND GUTTER REMOVAL		HOT-MIX ASPHALT REMOVAL OVER PATCHES, 11"		PAVED SHOULDER REMOVAL		GUARDRAIL REMOVAL		SHOULDER REMOVAL (SPECIAL)		HMA SURFACE REMOVAL (SPECIAL)	
	(SQ YD)		(SQ YD)		(SQ YD)	(FOOT)		(FOOT)		(SQ YD)		(SQ YD)		(FOOT)		(SQ YD)		(SQ YD)	
	LT	RT	LT	RT		LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT
ILLINOIS 251																			
768+00.00 - 768+50.00															30.50				
768+50.00 - 769+00.00															50.00				
769+00.00 - 769+50.00															20.00				
769+50.00 - 770+00.00															50.00				
770+00.00 - 770+50.00	6.87	7.49			154.04					30.39	34.76	45.59	23.13		50.00			9.91	10.80
770+50.00 - 771+00.00					151.52					30.29	32.35	45.10	29.41		0.00			8.07	10.12
771+00.00 - 771+50.00					153.03					31.30	32.84	42.39	36.95		0.00			9.08	10.62
771+50.00 - 772+00.00					151.26		55.20			32.59	29.78	34.85	27.97		0.00			10.36	11.82
772+00.00 - 772+50.00					149.47		50.00			35.73	24.86	24.99	29.97	35.50	34.40			13.50	13.95
772+50.00 - 773+00.00					142.81	39.30	50.00			27.12	26.80	25.74	25.29	50.00	50.00			15.64	16.25
773+00.00 - 773+50.00					141.82	50.00	50.00			23.99	28.94	23.01	19.74	50.00	50.00			14.45	18.40
773+50.00 - 774+00.00					140.25	50.00	50.00			23.68	27.68	22.53	19.68	50.00	50.00			14.05	17.54
774+00.00 - 774+50.00					137.59	50.00	50.00			23.32	25.37	23.36	21.96	50.00	50.00			13.93	15.53
774+50.00 - 775+00.00					137.15	50.00	50.00			23.10	25.17	25.27	23.17	50.00	50.00			13.18	14.53
775+00.00 - 775+50.00					137.28	50.00	50.00			23.32	25.07	25.58	24.11	50.00	50.00			12.08	13.92
775+50.00 - 776+00.00					137.63	50.00	50.00			23.83	24.91	25.41	26.49	50.00	50.00			7.81	9.93
776+00.00 - 776+50.00					137.93	50.00	50.00			24.60	24.44	27.58	27.95	50.00	50.00			2.38	2.27
776+50.00 - 777+00.00					139.89	50.10	50.20			25.24	25.76	30.17	26.91	50.00	50.00			3.02	3.45
777+00.00 - 777+50.00					135.77	50.20	50.10			23.84	23.04	38.50	36.97	50.00	50.00			1.62	1.05
777+50.00 - 778+00.00			39.19	39.17	56.50	50.00	50.00			9.75	9.59	45.99	44.31	50.00	50.00			0.47	0.30
778+00.00 - 778+50.00			13.20	13.25		2.50	1.80					2.74	3.94	31.60	31.80	12.11	10.55		
BRIDGE OMISSION																			
780+00.00 - 780+50.00														1.90	2.00	11.25	9.61		
780+50.00 - 781+00.00			50.87	55.16	12.05			49.00	49.00	1.80	2.47	28.71	28.86	50.00	50.00			0.00	0.52
781+00.00 - 781+50.00					138.83			50.00	50.00	20.65	29.30	36.19	34.46	50.00	50.00			0.00	7.08
781+50.00 - 782+00.00					139.49			50.00	50.00	22.21	28.39	34.13	34.48	50.00	50.00			0.29	6.17
782+00.00 - 782+50.00	6.19	6.50			140.95			50.00	50.00	24.11	27.95	32.88	33.98	50.00	50.00			1.89	5.73
782+50.00 - 783+00.00																			
TOTAL	13.06	13.99	103.27	107.58	2635.27	542.10	657.30	199.00	199.00	480.86	509.47	640.71	579.76	819.00	1018.70	23.36	20.16	151.73	189.93
ADJUSTED TOTAL	28.0		211.0		2636.0	1200.0		398.0		991.0		1221.0		1838.0		44.0		342.0	

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WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssundaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
IL 251 OVER 500 LINE RAILROAD			
SCALE:	SHEET 4	OF 9 SHEETS	STA. TO STA.

FAS RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 18
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING AND GUARDRAIL SCHEDULE

LOCATION	63000003		63100085		63100167		63301210		63301990		78001110			Z0001002	
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS		TRAFFIC BARRIER TERMINAL, TYPE 6		TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A		REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1		PAINT PAVEMENT MARKING - LINE 4"			GUARDRAIL AGGREGATE EROSION CONTROL	
	(FOOT)		(EACH)		(EACH)		(FOOT)		(EACH)		(FOOT)			(TON)	
	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	CL	RT	LT	RT
ILLINOIS 251															
766+00.00 - 766+50.00								23.52		1					
766+50.00 - 767+00.00								50.00							
767+00.00 - 767+50.00								50.00							
767+50.00 - 768+00.00								50.00							
768+00.00 - 768+50.00								50.00							
768+50.00 - 769+00.00								50.00							4.5
769+00.00 - 769+50.00		36.02						14.00							4.5
769+50.00 - 770+00.00		50.00													4.5
770+00.00 - 770+50.00		50.00									50.00	100.00	50.00		4.5
770+50.00 - 771+00.00		50.00									50.00	100.00	50.00		4.5
771+00.00 - 771+50.00		50.00									50.00	100.00	50.00		4.5
771+50.00 - 772+00.00	23.50	50.00									50.00	100.00	50.00	2.1	4.5
772+00.00 - 772+50.00	50.00	50.00			1.00						50.00	100.00	50.00	4.5	4.5
772+50.00 - 773+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
773+00.00 - 773+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
773+50.00 - 774+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
774+00.00 - 774+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
774+50.00 - 775+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
775+00.00 - 775+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
775+50.00 - 776+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
776+00.00 - 776+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
776+50.00 - 777+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
777+00.00 - 777+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
777+50.00 - 778+00.00	14.00	14.00	1.00	1.00							50.00	100.00	50.00	1.3	1.3
778+00.00 - 778+50.00											50.00	100.00	50.00		
BRIDGE OMISSION											150.00	300.00	150.00		
780+00.00 - 780+50.00											50.00	100.00	50.00		
780+50.00 - 781+00.00			1.00	1.00							50.00	100.00	50.00		
781+00.00 - 781+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
781+50.00 - 782+00.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
782+00.00 - 782+50.00	50.00	50.00									50.00	100.00	50.00	4.5	4.5
782+50.00 - 783+00.00															
783+00.00 - 783+50.00															
783+50.00 - 784+00.00															
784+00.00 - 784+50.00															
GOOD NEIGHBOR											14280.00	28560.00	14280.00		
TOTAL	737.50	1000.02	2	2	1	0	0	287.5	0	1	1250.00	2500.00	1250.00	66.40	95.80
ADJUSTED TOTAL	1/38		4		1		288		1		5000			163	

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WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssun0aresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 6/23/21	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
IL 251 OVER 500 LINE RAILROAD			
SCALE:	SHEET 5	OF 9 SHEETS	STA. TO STA.

FAS RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 19
			CONTRACT NO. 64L75	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	STATION	OFFSET	COMMENT
1	780+76	RT	
1	780+76	LT	
1	781+16	RT	
1	781+16	LT	
1	781+56	RT	
1	781+56	LT	
1	781+96	RT	
1	781+96	LT	
1	782+36	RT	
1	782+36	LT	

10 TOTAL

89502400 REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE

EACH	STATION	OFFSET
1	779+70	RT
1	779+70	LT

2 TOTAL

X0323586 PIPE DRAIN REMOVAL

FOOT	STATION	OFFSET	DIAMETER	COMMENT
52	778+06	RT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	778+06	LT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	780+61	RT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	780+61	LT	12 INCH	EXIST PIPE DRAIN AND OUTLET

208 TOTAL

X0326649 LINEAR DELINEATOR PANELS, 6 INCH

EACH	STATION	OFFSET
1	778+34.6	RT
1	778+34.6	LT
1	778+84.6	RT
1	778+84.6	LT
1	779+34.6	RT
1	779+34.6	LT
1	779+84.6	RT
1	779+84.6	LT
1	779+84.6	LT
1	780+34.6	RT
1	780+34.6	LT

10 TOTAL

X1400349 SOLAR-POWERED FLASHING BEACON INSTALLATION

EACH	STATION	OFFSET	COMMENT
1	779+70	RT	
1	779+70	LT	

2 TOTAL

X5537800 STORM SEWERS TO BE CLEANED 12"

FOOT	STATION	OFFSET	DIAMETER	COMMENT
52	778+06	RT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	778+06	LT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	780+61	RT	12 INCH	EXIST PIPE DRAIN AND OUTLET
52	780+61	LT	12 INCH	EXIST PIPE DRAIN AND OUTLET

208 TOTAL

X6050700 REMOVE INLET BOX

EACH	STATION	OFFSET	COMMENT
1	778+06	RT	EXIST PIPE DRAIN TO REMAIN
1	778+06	LT	EXIST PIPE DRAIN TO REMAIN
1	780+61	RT	EXIST PIPE DRAIN TO REMAIN
1	780+61	LT	EXIST PIPE DRAIN TO REMAIN

4 TOTAL

X6100120 TYPE E INLET BOX, STANDARD 610001 (SPECIAL)

EACH	INLET #	STATION	DISTANCE	OFFSET	COMMENT
1	IB-1	778+06	15.2	RT	PER IDOT STD 610001
1	IB-2	778+06	15.2	LT	PER IDOT STD 610001
1	IB-3	780+61	15.2	RT	PER IDOT STD 610001
1	IB-4	780+62	15.2	LT	PER IDOT STD 610001

4 TOTAL

X7820007 GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

EACH	STATION	OFFSET
1	766+11.4	RT
1	766+91.4	RT
1	767+71.4	RT
1	768+51.4	RT
1	769+31.4	RT
1	770+11.4	RT
1	770+91.4	RT
1	771+71.4	RT
1	772+51.4	RT
1	772+51.4	LT
1	773+31.4	RT
1	771+31.4	LT
1	774+11.4	RT
1	774+11.4	LT
1	774+91.4	RT
1	774+91.4	LT
1	775+71.4	RT
1	775+71.4	LT
1	776+51.4	RT
1	776+51.4	LT
1	777+31.4	RT
1	777+31.4	LT
1	778+31.4	RT
1	778+31.4	LT
1	782+11.4	RT
1	782+11.4	LT

26 TOTAL

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ssundaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:2	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL 251 OVER 500 LINE RAILROAD**

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	22
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

X8430100 REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE

FOOT	STATION		STATION	OFFSET	COMMENT
95	779+32	TO	780+10	RT	FLASHING BEACON TO JUNCTION BOX
95	779+32	TO	780+10	LT	FLASHING BEACON TO JUNCTION BOX
					*INCLUDES CABLE REMOVAL
78	779+32	TO	780+10	RT	ABANDONED ON OUTSIDE STEEL BEAM
44	780+10			LT/RT	JUNCTION BOX TO JUNCTION BOX
25	780+10			LT	JUNCTION BOX TO SERVICE CONNECTION

337 TOTAL

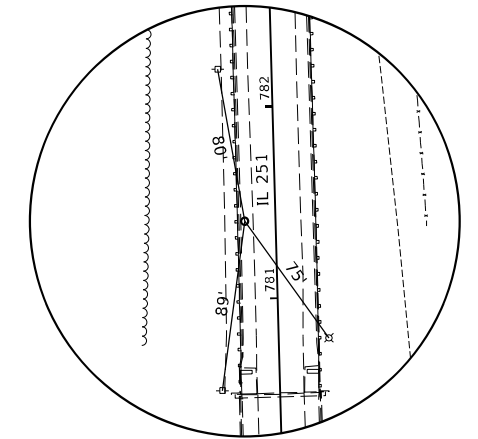
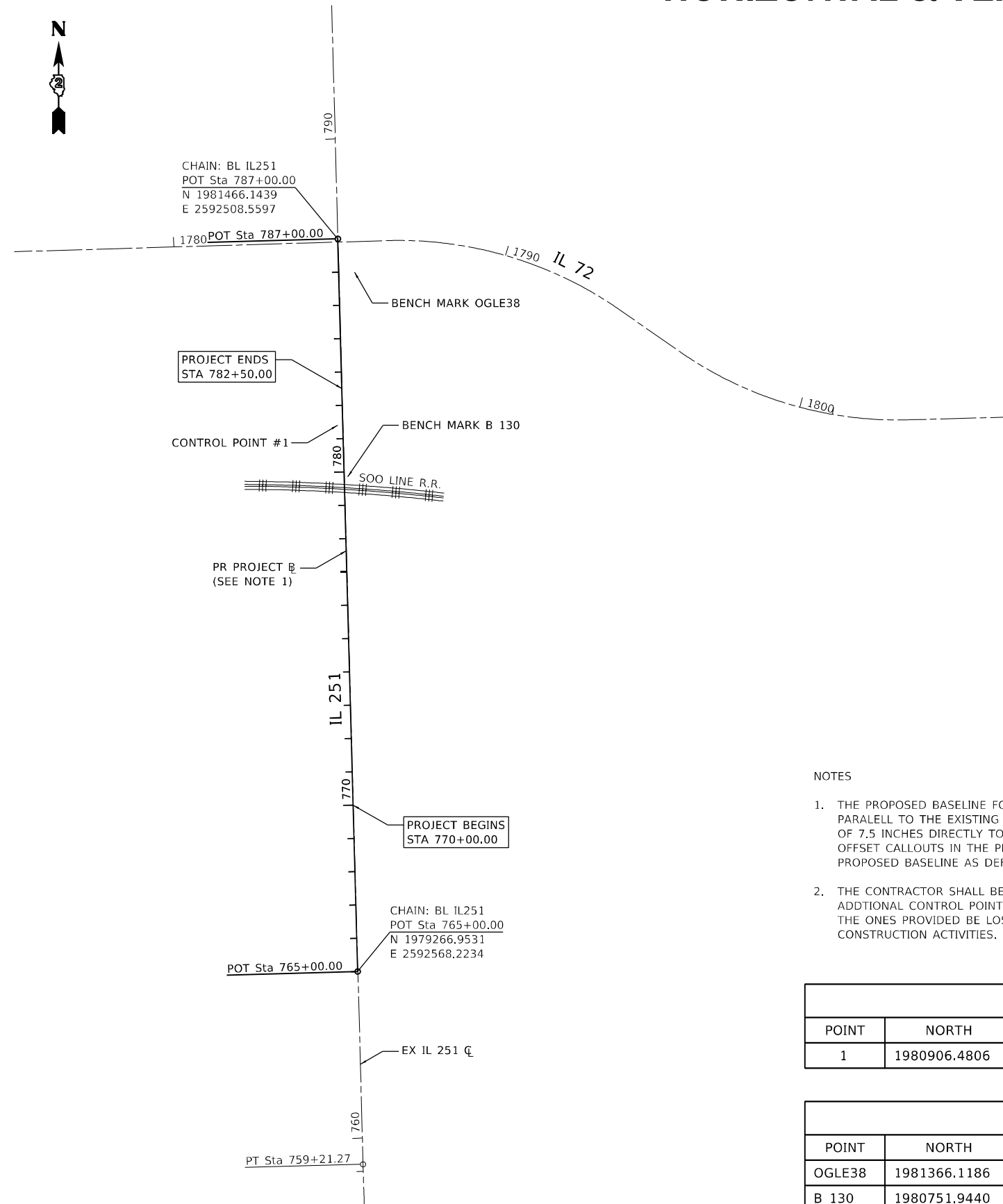
Z0055100 RUMBLE RESURFACING

SQ YD	STATION		STATION	WIDTH	COMMENT
31	777+45.8	TO	777+70.8	11	NORTHBOUND LANE
31	781+59.6	TO	781+84.6	11	NORTHBOUND LANE

62.0 TOTAL

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HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 1

NOTES

1. THE PROPOSED BASELINE FOR IL 251 (BL IL251) IS OFFSET PARALELL TO THE EXISTING IL 251 CENTERLINE A DISTANCE OF 7.5 INCHES DIRECTLY TO THE WEST. ALL STATION AND OFFSET CALLOUTS IN THE PLANS ARE IN REFERENCE TO THE PROPOSED BASELINE AS DEFINED ON THIS SHEET.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ADDITIONAL CONTROL POINTS AND BENCHMARKS SHOULD THE ONES PROVIDED BE LOST OR DESTROYED DURING CONSTRUCTION ACTIVITIES.

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1980906.4806	2592507.6762	790.5938	BL_IL251	781+40.57	16.0611' LT	PK NAIL

BENCHMARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
OGLE38	1981366.1186	2592558.8441	771.9900	BL_IL251	785+98.65	47.5533' RT	SURVEY DISK (PID NH0484)
B 130	1980751.9440	2592538.7780	770.1400	BL_IL251	779+85.24	10.8382' RT	NGS VERTICAL BENCHMARK - UNDER THE NORTH END OF THE BRIDGE-DISK SET IN PIER

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USER NAME = ssundaresan	DESIGNED - MCC	REVISED -
PLOT SCALE = 1:400	DRAWN - NDP	REVISED -
PLOT DATE = 6/25/2021	CHECKED - SBP	REVISED -
	DATE - 6/23/21	REVISED -

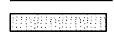
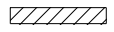
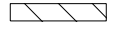
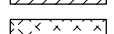
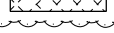

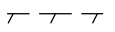

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL
IL 251 OVER SOO LINE RAILROAD

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

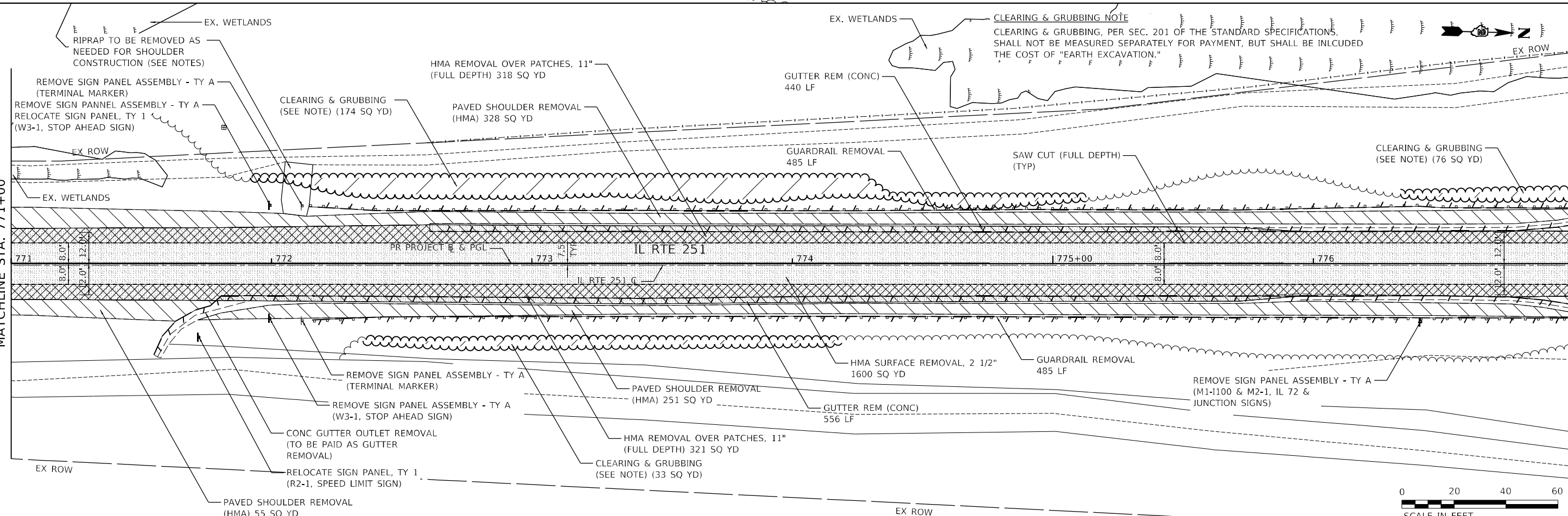
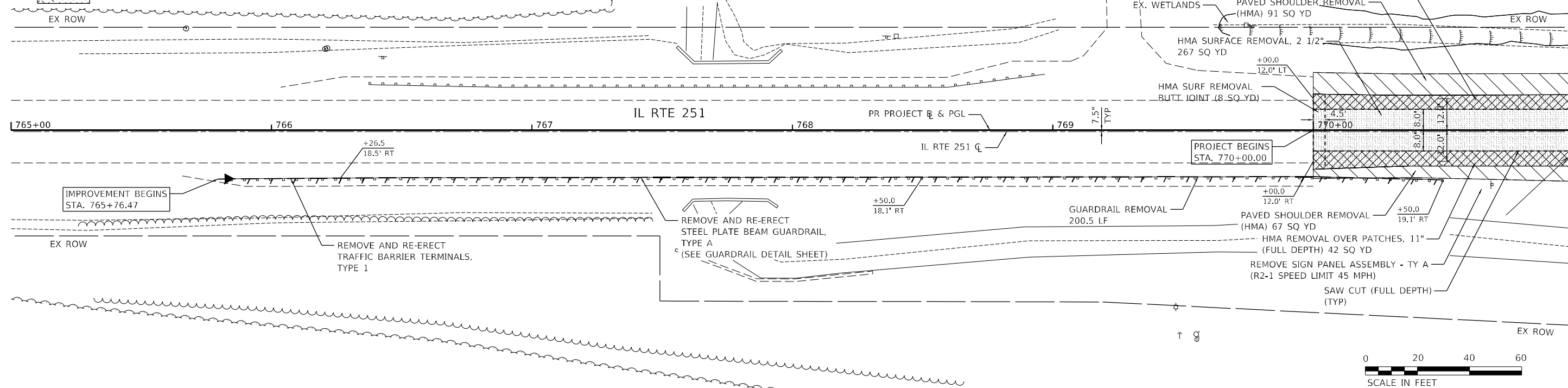
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L75	

LEGEND

-  HMA SURFACE REMOVAL
-  HMA REMOVAL OVER PATCHES 11"
-  PAVED SHOULDER REMOVAL (HMA)
-  PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  SHOULDER REMOVAL (SPECIAL)
-  LINEAR ITEM REMOVAL (AS SPECIFIED)
-  RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (TYP)

NOTES

1. ALL STATION & OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET 24 FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
2. RIPRAP REMOVAL DEEMED NECESSARY FOR THE CONSTRUCTION OF THE SHOULDER IMPROVEMENTS SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION."



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WBK ENGINEERING
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

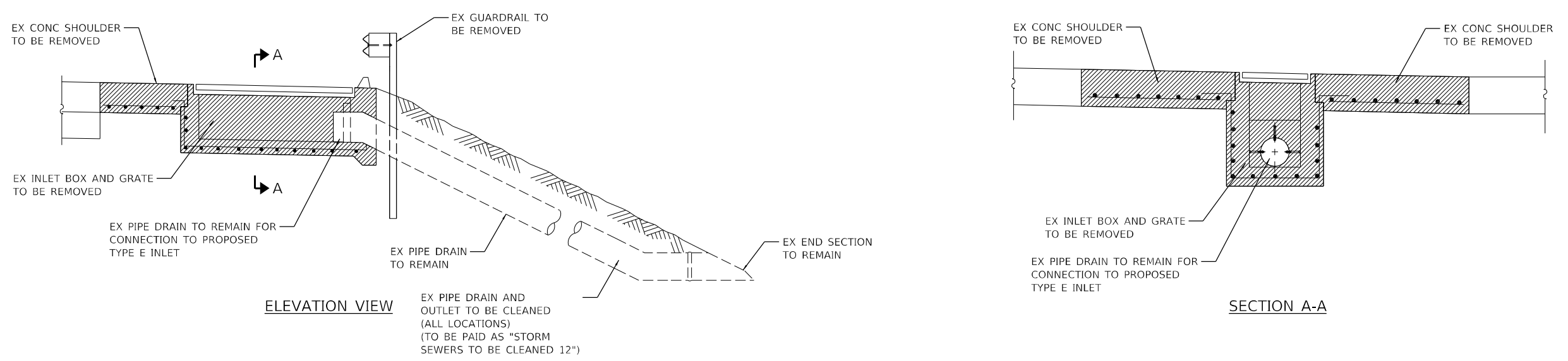
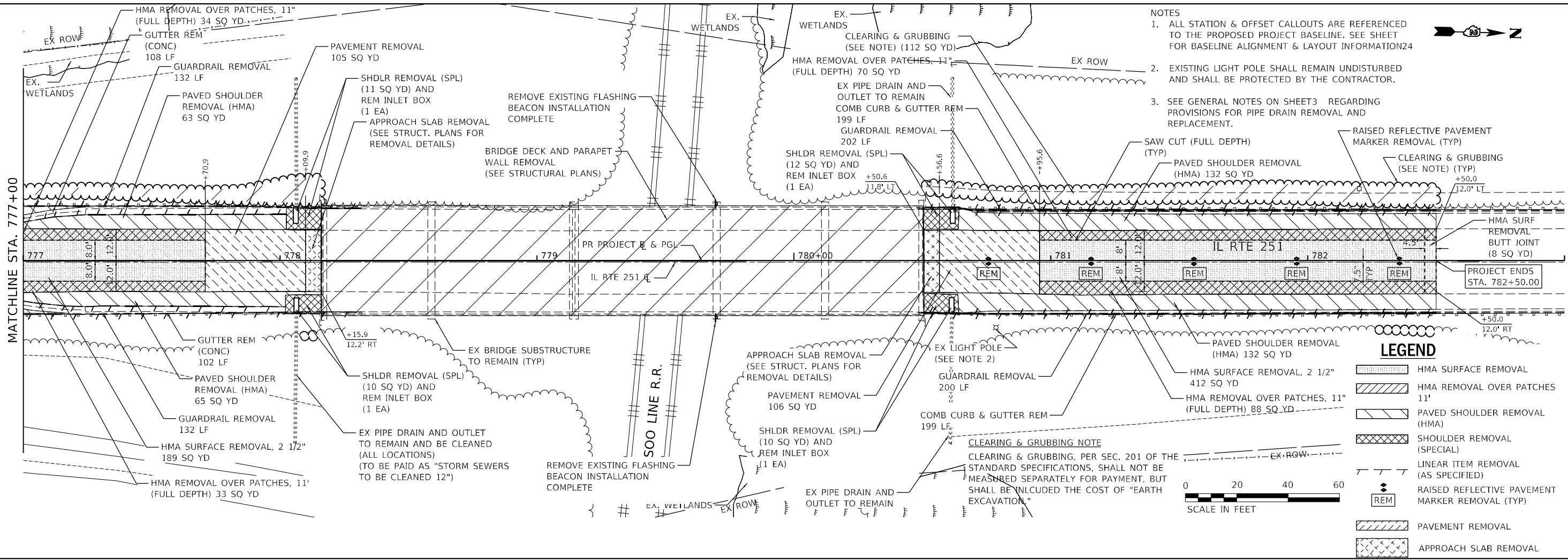
USER NAME = ssundaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:40	DRAWN - SS	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
IL 251 OVER SOO LINE RAILROAD**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 770+00.00 TO STA. 777+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	25
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



INLET BOX REMOVAL DETAIL

FILE NAME: Z:\2016\160240_P1B1B11\cadd\Civil\Dgn\WO3-4_SRD2091616-rl-rem_02.dgn



USER NAME = ssunaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:40	DRAWN - SS	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

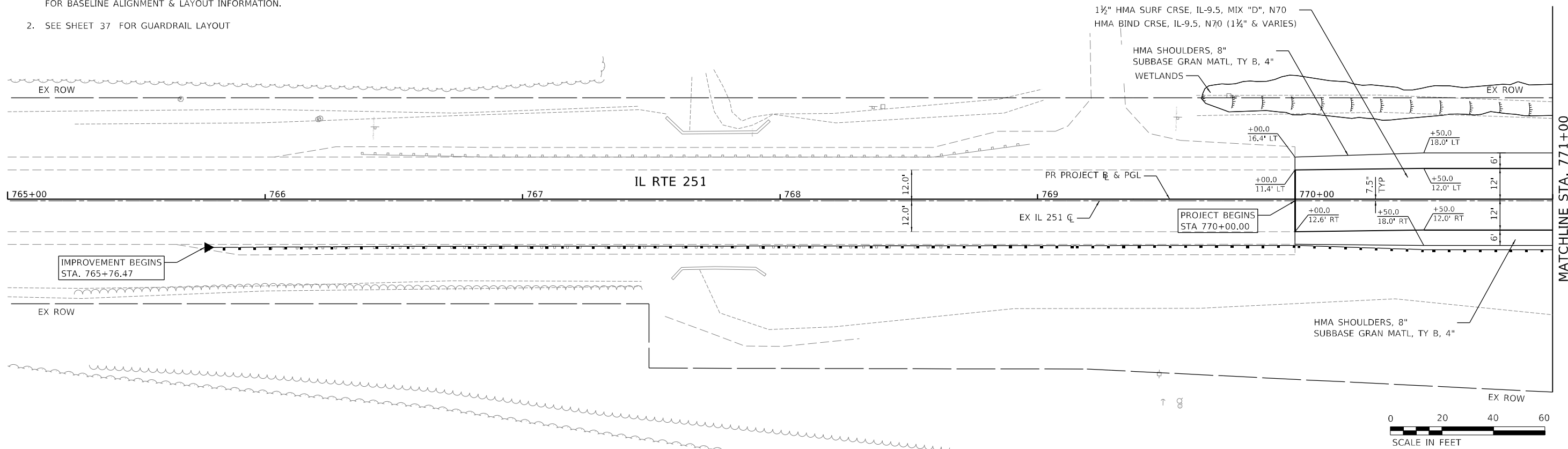
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN		FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 251 OVER SOO LINE RAILROAD		1042	106VBR-D	OGLE	107	26
SCALE: 1"=20'		SHEET 2 OF 2 SHEETS		STA. 777+00.00 TO STA. 782+50.00		CONTRACT NO. 64L75

ILLINOIS FED. AID PROJECT	
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NOTES

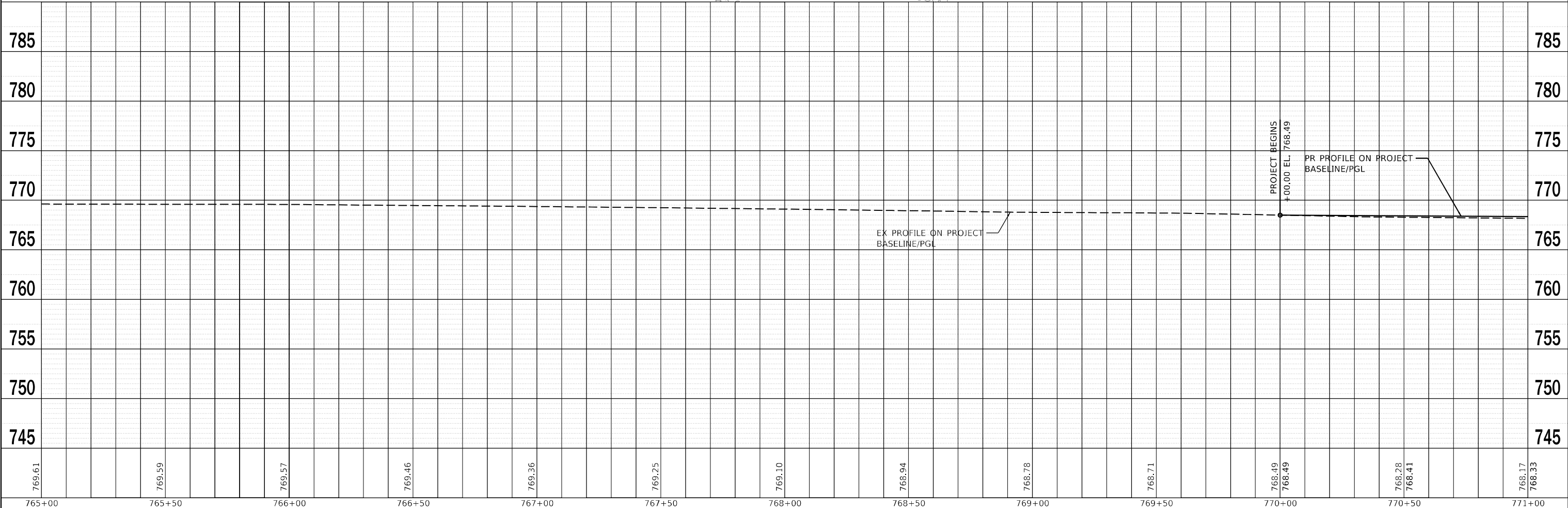
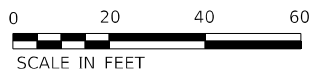
1. ALL STATION AND OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET 24 FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
2. SEE SHEET 37 FOR GUARDRAIL LAYOUT



IMPROVEMENT BEGINS STA. 765+76.47

PROJECT BEGINS STA 770+00.00

MATCHLINE STA. 771+00



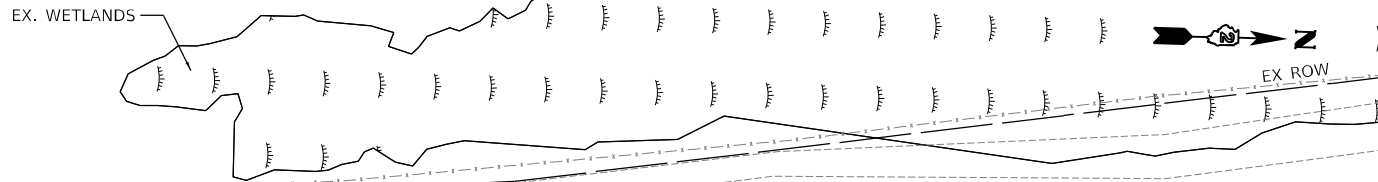
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	PLOTTED	
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	FILE NAME	

PROFILE	SURVEYED	DATE
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	FILE NAME	

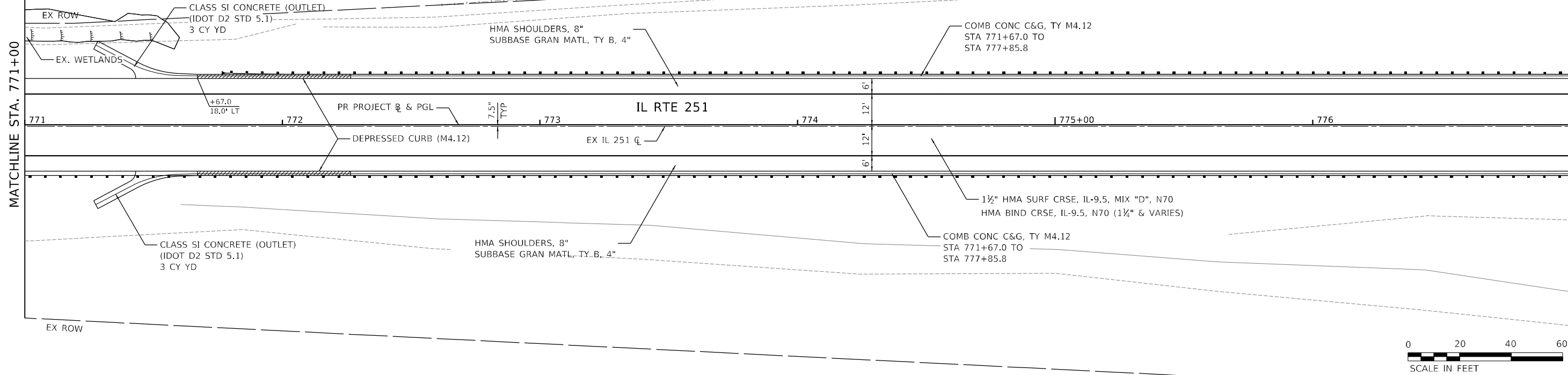
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WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = ssundaresan PLOT SCALE = 1:40 PLOT DATE = 6/25/2021	DESIGNED - KAC DRAWN - SS CHECKED - YOO DATE - 6/23/21	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE IL 251 OVER SOO LINE RAILROAD	FAS RTE. = 1042 SECTION = 106VBR-D COUNTY = OGLE CONTRACT NO. = 64L75	TOTAL SHEETS = 107 SHEET NO. = 27
	SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 770+00.00 TO STA. 771+00.00	ILLINOIS FED. AID PROJECT					

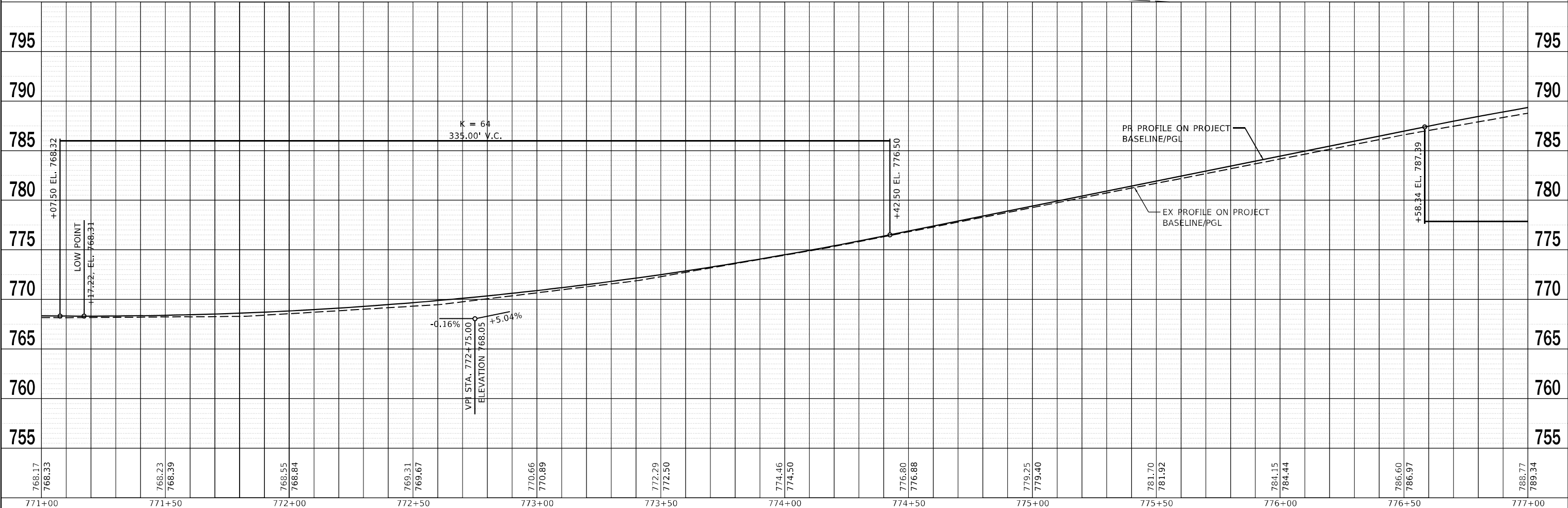
- NOTES
1. ALL STATION AND OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET 24 FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
 2. DEPRESSED CURB SHALL BE INCLUDED IN THE COST OF "COMB CONC C&G, TY M4.12."
 3. SEE SHEET 37 FOR GUARDRAIL LAYOUT



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = sssundaresan	DESIGNED - KAC	REVISED -
	DRAWN - SS	REVISED -
PLOT SCALE = 1:40	CHECKED - YOO	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

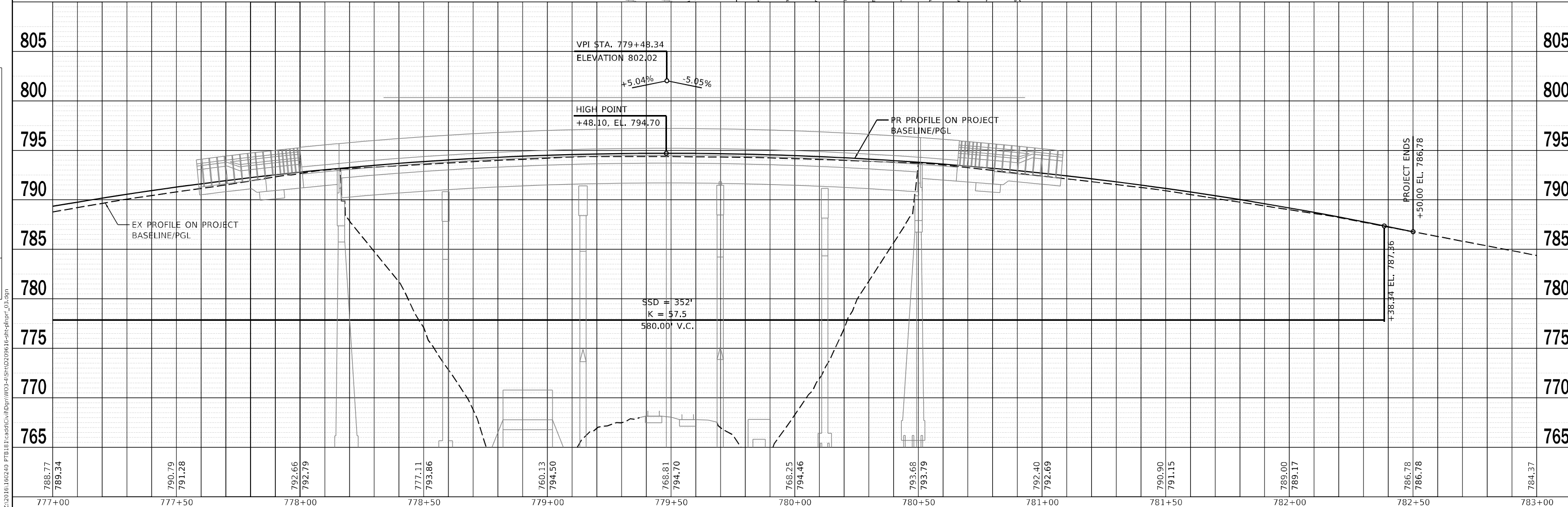
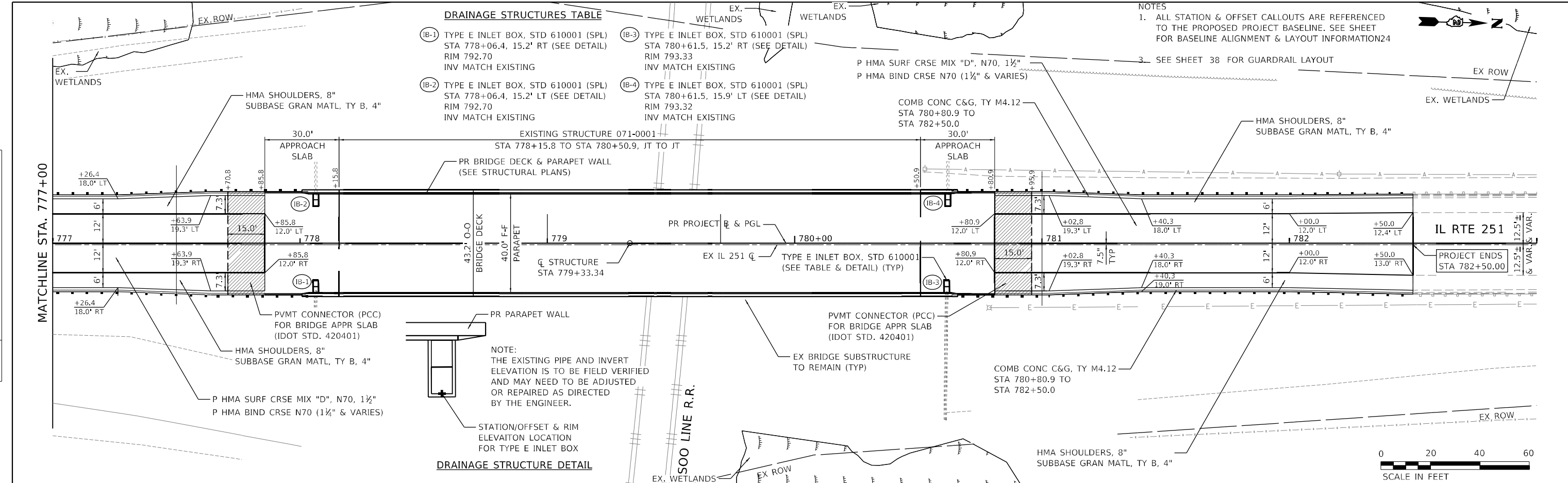
**PLAN & PROFILE
 IL 251 OVER SOO LINE RAILROAD**

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 771+00.00 TO STA. 777+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	28
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



788.77 789.34	790.79 791.28	792.66 792.79	777.11 793.86	760.13 794.50	768.81 794.70	768.25 794.46	793.68 793.79	792.40 792.69	790.90 791.15	789.00 789.17	786.78 786.78	784.37
777+00	777+50	778+00	778+50	779+00	779+50	780+00	780+50	781+00	781+50	782+00	782+50	783+00

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PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE		FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 251 OVER SOO LINE RAILROAD		1042	106VBR-D	OGLE	107	29
SCALE: 1"=20'		SHEET 3 OF 3 SHEETS		STA. 777+00.00 TO STA. 782+50.00		
		ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 64L75

TEMPORARY DETOUR DURATION

THE CONTRACT DOCUMENTS WILL ALLOW THE ROADWAY CLOSURE AND TEMPORARY DETOUR DETAILED IN THESE PLANS TO REMAIN IN PLACE FOR THE DURATION OF TIME SPECIFIED IN THE BDE SPECIAL PROVISION FOR "WORKING DAYS". THE CONTRACTOR WILL BE EXPECTED TO COMPLETE ALL PROPOSED WORK RELATED TO THE CONSTRUCTION OF THE PROPOSED BRIDGE AND ROADWAY DURING THIS CLOSURE. THE ROADWAY MUST HAVE HMA SURFACE COURSE PLACED AND THE GUARDRAIL INSTALLED BEFORE THE ROADWAY IS OPENED TO TRAFFIC.

CHANGEABLE MESSAGE SIGN

A CHANGEABLE MESSAGE SIGN WILL BE PLACED AT EACH END OF THE PROJECT FOR THE DURATION OF CONSTRUCTION. THE FINAL LOCATION OF EACH SIGN SHALL BE DETERMINED IN THE FIELD.

TEMPORARY INFORMATION SIGN

THE CONTRACTOR SHALL ERECT A TEMPORARY INFORMATION SIGN ON THE NORTH AND SOUTH SIDES OF THE PROJECT TO INFORM THE PUBLIC OF THE CONSTRUCTION DURATION. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THE SIGN. THE SIGN SHALL BE IN PLACE FOR THE ENTIRE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE TEMPORARY SIGN WILL BE AS DIMENSIONED AND DETAILED ON THE DETOUR PLAN. THE SIGNING, WHICH INCLUDES POST AND MOUNTING, WILL BE PAID AS TEMPORARY INFORMATION SIGNING, PER SQ FT FOR EACH SIGN ERECTED. THE SIGN SHALL BE UPDATED IF THE COMPLETION DATE CHANGES.

CONTACTS

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ALL MUNICIPALITIES, TOWNSHIP, AND COUNTY ENTITIES WITHIN THE PROJECT LIMITS. THE FOLLOWING IS THE APPLICABLE LIST OF CONTACTS:

OGLE COUNTY HIGHWAY DEPARTMENT	JEREMY A. CIESIEL, P.E.	815-732-2851
OGLE COUNTY SHERIFF	BRIAN E. VANVICKLE, COUNTY SHERIFF	815-732-1101
OGLE COUNTY EMERGENCY MANAGEMENT	THOMAS RICHTER, COORDINATOR	815-562-1001
SCOTT TOWNSHIP HIGHWAY DEPARTMENT	KEVIN SULLIVAN, HIGHWAY COMMISSIONER	UNKNOWN
MONROE TOWNSHIP ROAD DISTRICT	LARRY BAXTER, HIGHWAY COMMISSIONER	UNKNOWN
WHITE ROCK TOWNSHIP ROAD DISTRICT	HEATH STROHMAN, HIGHWAY COMMISSIONER	UNKNOWN
LYNNVILLE TOWNSHIP ROAD DISTRICT	RICHARD DRENDAL, HIGHWAY COMMISSIONER	(815) 393-4901
VILLAGE OF DAVIS JUNCTION PUBLIC WORKS	BRETT SERGE	815-298-4090
VILLAGE OF DAVIS JUNCTION FIRE DEPARTMENT	UNKNOWN	815-645-2551
MERIDIAN SCHOOL DISTRICT #223	DISTRICT OFFICE	815-645-2230
ILLINOIS DEPARTMENT OF TRANSPORTATION	KRISTIE NYDEREK	815-284-5474

LIMITATIONS OF CONSTRUCTION

THE CONTRACTOR SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDS AND TRAFFIC INCONVENIENCES TO A MINIMUM, AS SPECIFIED BELOW:

- IF THERE ARE CONSTRUCTION OPERATIONS COMPLETE OUTSIDE OF THE DURATION OF THE ROADWAY CLOSURE, THOSE CONSTRUCTION OPERATIONS WILL BE CONDUCTED SO ONE LANE IN EACH DIRECTION ON IL ROUTE 251 REMAIN OPEN AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL THE NECESSARY SIGNS, BARRICADES, CONES, DRUMS, AND LIGHTS FOR THE WARNING AND PROTECTION OF TRAFFIC, AS REQUIRED BY SECTIONS 107 AND 701 THROUGH 703 OF THE STANDARD SPECIFICATIONS, OR AS MODIFIED BY THE ENGINEER.
- THE CONTRACTOR SHALL FURNISH AND ERECT "ROAD CONSTRUCTION AHEAD" SIGNS (W20-1103 (O)-48) AT BOTH ENDS OF THE PROJECT AND AT ALL SIDE ROADS WITHIN THE LIMITS OF THIS SECTION WHEN WORKING IN THE VICINITY OF THE SIDE ROAD INTERSECTION.

OFF-PEAK HOURS

FOR CONSTRUCTION OPERATIONS OUTSIDE THE DESIGNATED DETOUR PERIOD, THE "OFF-PEAK" HOURS ARE DEFINED AS THE DAYTIME HOURS FROM 6:00 A.M. TO 9:00 P.M. AND NIGHT TIME HOURS FROM 9:00 P.M. TO 6:00 A.M., MONDAY THROUGH FRIDAY. THE CONTRACTOR MAY REQUEST IN WRITING FOR THESE HOURS TO BE EXTENDED.

KEEPING ROADS OPEN TO TRAFFIC

THE CONTRACTOR SHALL SCHEDULE HIS/HER SEQUENCE OF OPERATIONS TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR'S SCHEDULE SHALL REFLECT THE FOLLOWING REQUIREMENTS AND SEQUENCE OF CONSTRUCTION. THESE REQUIREMENTS FOLLOW THE SUGGESTED TRAFFIC CONTROL PLAN INCLUDED IN THE DRAWINGS.

IL 251 WILL BE COMPLETELY CLOSED TO TRAFFIC FOR THE DURATION SPECIFIED IN THE CONTRACT DOCUMENTS.

SEQUENCE OF CONSTRUCTION

IN GENERAL, THE STAGING OF CONSTRUCTION FOR THIS SECTION SHALL BE AS FOLLOWS:

MAJOR WORK ITEMS - STAGE 1 (ROADWAY CLOSURE) IL 251

- COORDINATE UTILITY RELOCATES
- SET UP CHANGEABLE MESSAGE SIGNS AND INFORMATION SIGNS
- SET UP DETOUR AS DETAILED IN THE PLANS
- SET UP TEMPORARY EROSION CONTROL MEASURES
- REMOVE EXISTING PAVEMENTS, BRIDGE STRUCTURE & WING WALLS
- CONSTRUCT THE PROPOSED BRIDGE AND WING WALLS
- CONSTRUCT EMBANKMENT, SUBGRADE AND AGGREGATE BASE COURSES
- CONSTRUCT UNDERDRAINS
- CONSTRUCT SHOULDERS AND PAVEMENTS (INCLUDING FINAL SURFACE)
- CONSTRUCT GUARDRAILS AND TRAFFIC BARRIER TERMINALS
- PLACE PERMANENT PAVEMENT MARKINGS**

MAJOR WORK ITEMS - STAGE 2 - RESTORATION

THESE OPERATIONS MAY TAKE PLACE AFTER THE ROADWAY IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THESE WORK OPERATIONS UNDER THE APPROPRIATE IDOT TRAFFIC CONTROL STANDARD. THESE STANDARDS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, SPECIAL.

- PLACE PERMANENT RESTORATION
- PLACE GUARDRAIL MARKER
- PLACE PERMANENT SIGNAGE
- FINALIZE PUNCH LIST AND SITE CLEANUP

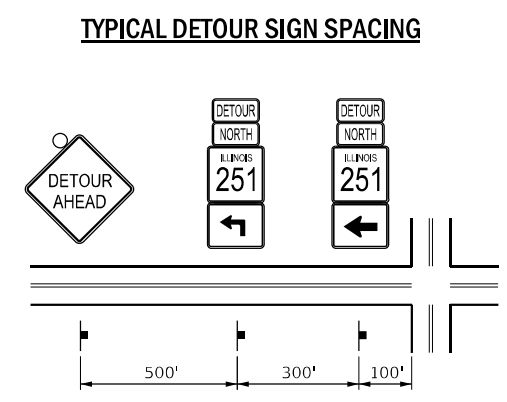
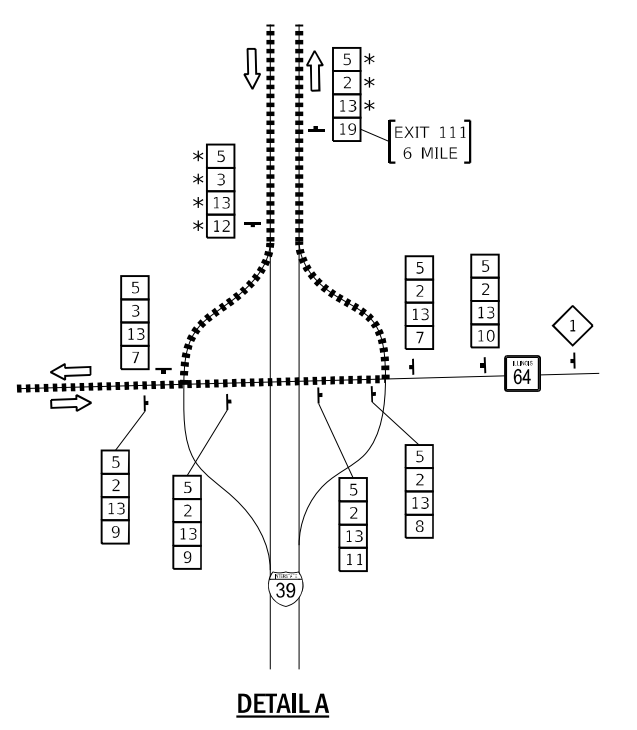
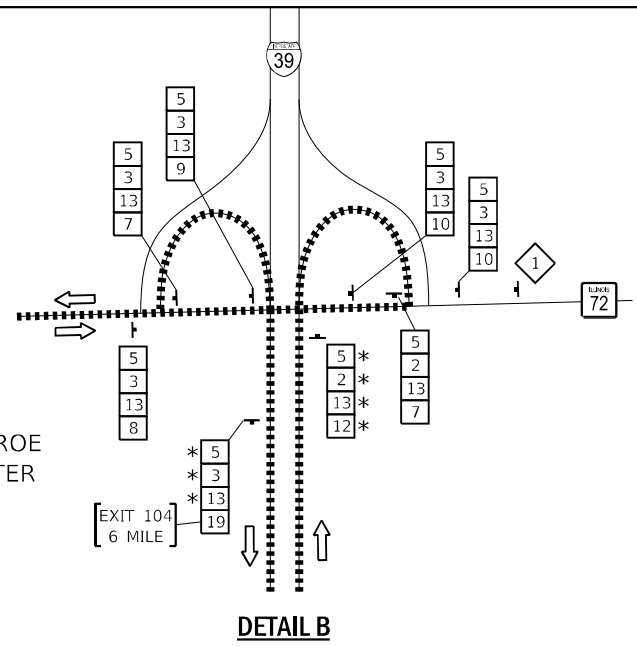
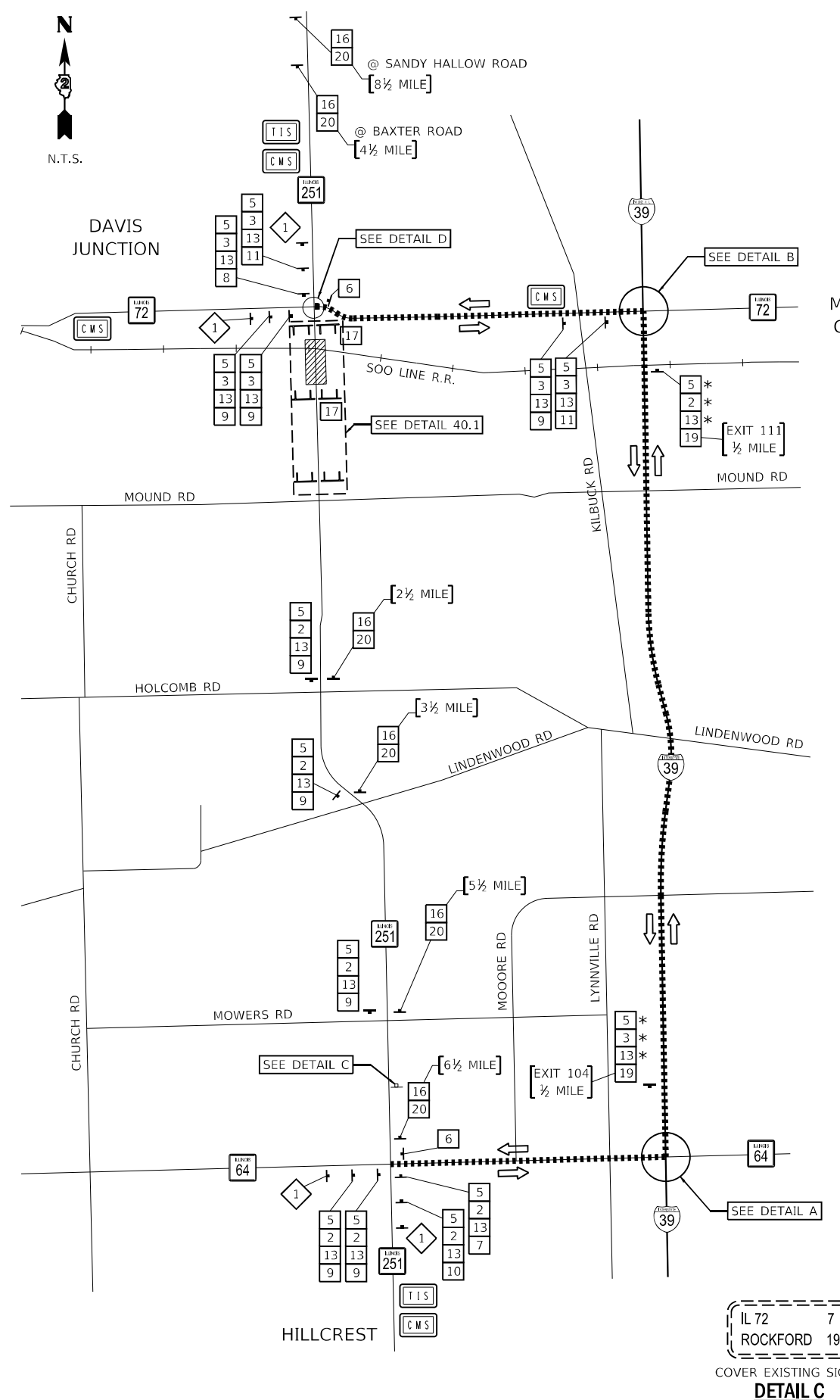
** IF CONTRACTOR ELECTS TO COMPLETE PERMANENT PAVEMENT MARKING OUTSIDE OF THE CLOSURE PERIOD, THEN THE CONTRACTOR SHALL PLACE THE APPROPRIATE TEMPORARY PAVEMENT MARKINGS. ALL MARKINGS ON THE PERMANENT SURFACES SHALL BE TAPE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE TEMPORARY PAVEMENT MARKINGS.

TRAFFIC CONTROL - IDOT STANDARD DRAWINGS

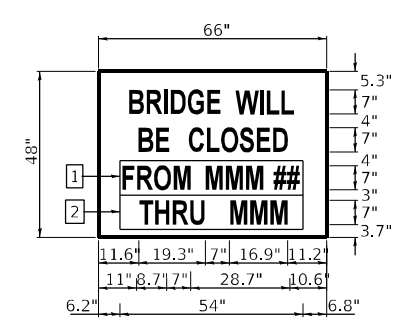
THE CONTRACTOR'S OPERATION MAY REQUIRE WORK THAT WILL NOT BE COMPLETED UNDER THE DETOUR CLOSURE. UNDER THESE CIRCUMSTANCES THE CONTRACTOR WILL COMPLETE THE WORK UTILIZING THE APPLICABLE IDOT TRAFFIC CONTROL STANDARD. THE STANDARD APPLICATION WILL BE APPROVED BY THE ENGINEER. A LIST OF POTENTIAL STANDARD DRAWINGS HAS BEEN INCLUDED IN THE SPECIAL PROVISION FOR "TRAFFIC CONTROL PLAN". THE CONTRACTOR IS ENCOURAGED TO COMPLETE ALL WORK UNDER THE DETOUR CLOSURE.

FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Dgn\WO3-4_SRD209616-sh-detour_01.dgn

 WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = ssuncioresan	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR NOTES IL 251 OVER SOO LINE RAILROAD	FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:20	DRAWN - VLM	REVISIED -			1042	106VBR-D	OGLE	107	30
	PLOT DATE = 6/25/2021	CHECKED - YOO	REVISIED -			CONTRACT NO. 64L75				
					SCALE:	SHEET 1	OF 3	SHEETS	STA.	TO STA.
					ILLINOIS FED. AID PROJECT					



TEMP. INFORMATION SIGN



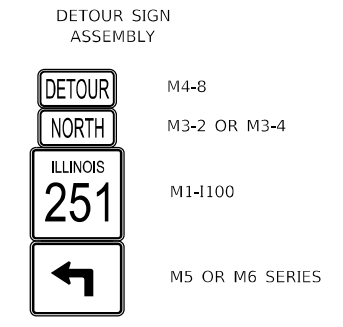
ARTIERIAL ROAD INFORMATION SIGN NOTES:

- SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING, ONE SIGN ASSEMBLY EQUALS 22.0 SQ FT.
- OVERLAY PANELS SHALL BE 'HIGHWAY C' FONT.
- OVERLAY PANEL 1 TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.
- OVERLAY PANEL 2 TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR. OMIT THE DATE ON PANEL; MONTH ONLY.
- ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS 1 AND 2 IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.

LEGEND

- TEMPORARY INFORMATION SIGN
- CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE
- DETOUR ROUTE TRAFFIC FLOW
- TYPE III BARRICADE WITH TYPE A FLASHER
- TYPE A FLASHER
- DETOUR SIGN
- DETOUR SIGN ASSEMBLY WITH STREET NAME AND DIRECTION PLATES (NUMBER DENOTES TYPE)
- W20 SERIES SIGN (NUMBER DENOTES TYPE)
- OTHER SIGN (NUMBER DENOTES TYPE)
- WORK ZONE
- EXISTING SIGN

TYPICAL DETOUR SIGN ASSEMBLY



SCHEDULE OF DETOUR SIGNS

SIGN NO.	SIGN	MUTCD CODE-SIZE
1		W20-2-4848
2		M3-1-2412 * M3-1-3015 (ON I-39)
3		M3-3-2412 * M3-3-3015 (ON I-39)
5		M4-8-2412 * M4-8-3015 (ON I-39)
6		M4-8A-2418
7		M6-1R(O)-3024
8		M6-1L(O)-3024
9		M6-3(O)-3024
10		M5-1R(O)-3024
11		M5-1L(O)-3024
12		M6-2-3024 * M6-2-4836 (ON I-39)
13		M1-1100-3636 * M1-1100-4848 (ON I-39)
14		M4-10L-4818
15		M4-10R-4818
16		W20-3(O)-4848
17		R11-2*-4830
18		R11-4-6030
19		CUSTOM-4836
20		W16-3A(O)-3612

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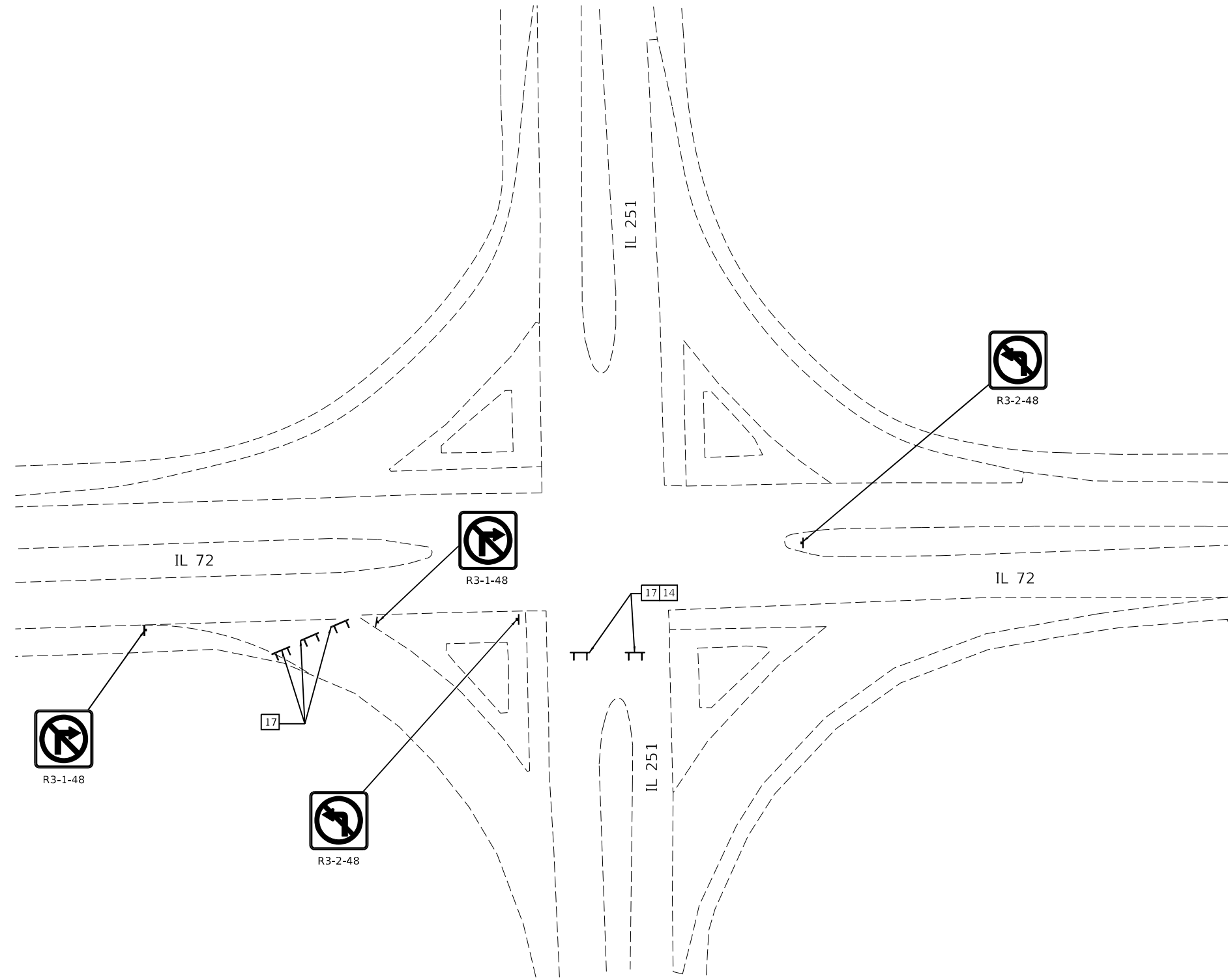
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	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET 2 OF 3 SHEETS		STA.	TO STA.
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DETOUR PLAN
 IL 251 OVER SOO LINE RAILROAD

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	31
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



DETAIL D

NOTES

- 1. SEE PREVIOUS DETOUR SHEET FOR SCHEDULE OF SIGNS

LEGEND

- TYPE III BARRICADE WITH TYPE A FLASHER

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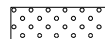

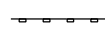
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	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR PLAN			
IL 251 OVER SOO LINE RAILROAD			
SCALE:	SHEET 3	OF 3	SHEETS
	STA.		TO STA.

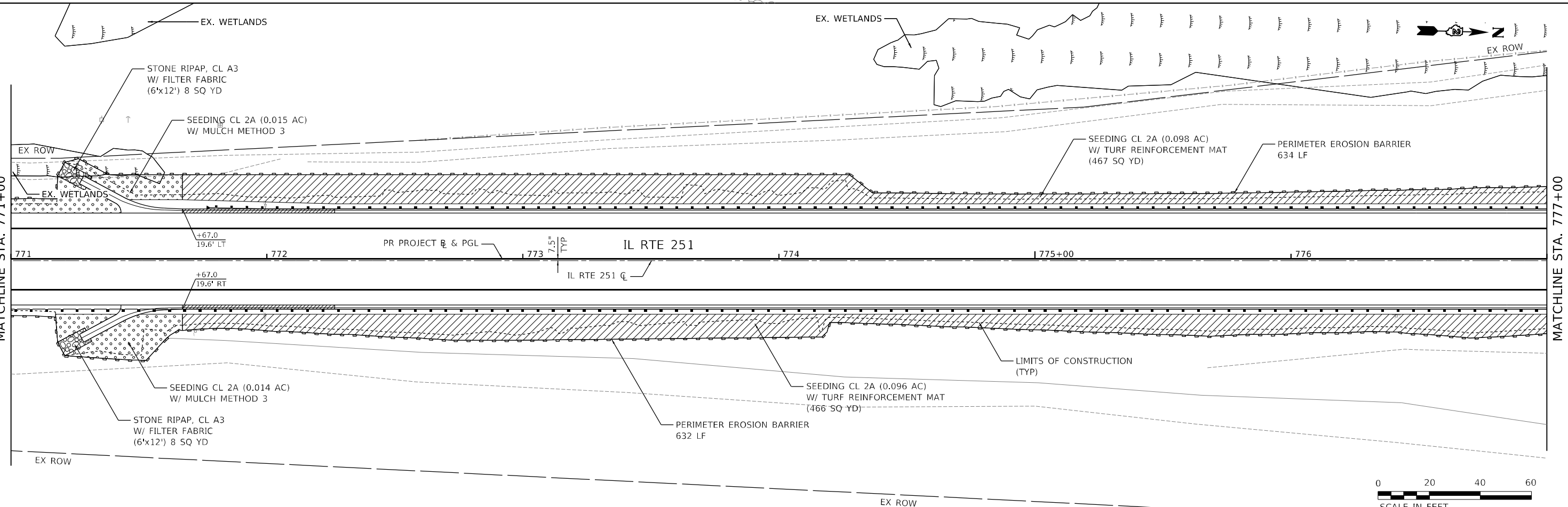
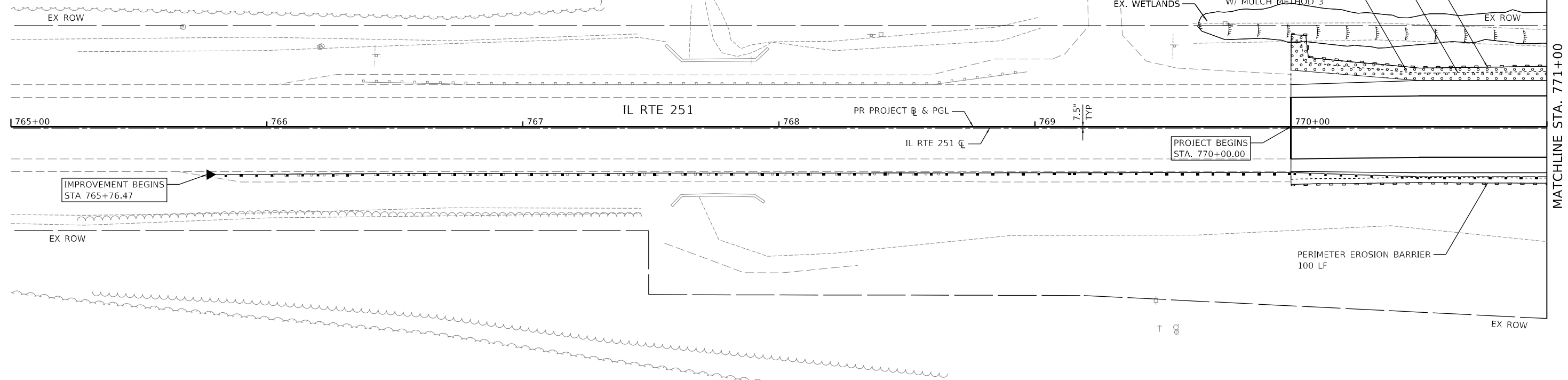
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	32
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

LEGEND

-  SEEDING, CL 2A W/
MULCH METHOD 3
-  SEEDING, CL 2A
TURF REINFORCEMENT MAT
-  PERIMETER EROSION BARRIER

NOTES

1. ALL STATION & OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET 24 FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
2. THE SEEDING, MULCH, AND FERTILIZER WILL NOT BE QUANTIFIED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION."
3. TURF REINFORCEMENT MAT WILL BE PAID FOR SEPARATELY.



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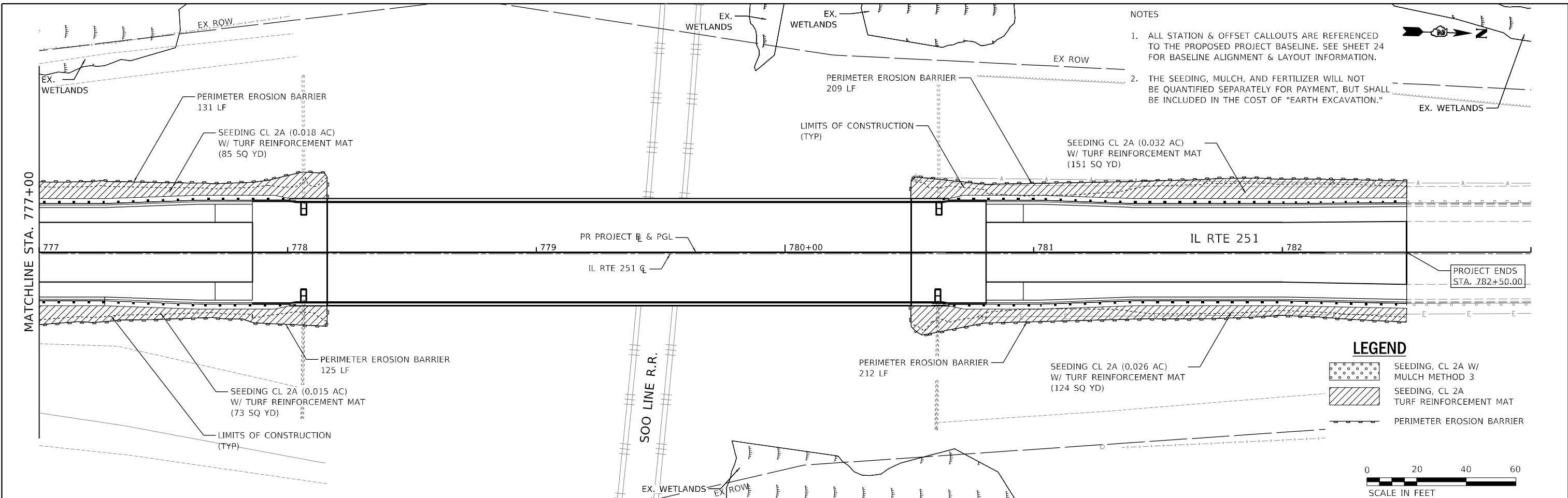
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	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL & SEEDING PLAN
IL 251 OVER SOO LINE RAILROAD**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 770+00.00 TO STA. 777+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	33
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

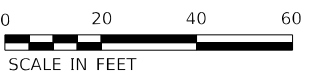


NOTES

1. ALL STATION & OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET 24 FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
2. THE SEEDING, MULCH, AND FERTILIZER WILL NOT BE QUANTIFIED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION."

LEGEND

- SEEDING, CL 2A W/ MULCH METHOD 3
- SEEDING, CL 2A TURF REINFORCEMENT MAT
- PERIMETER EROSION BARRIER



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	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL & SEEDING PLAN
 IL 251 OVER SOO LINE RAILROAD**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 777+00.00 TO STA. 782+50.00

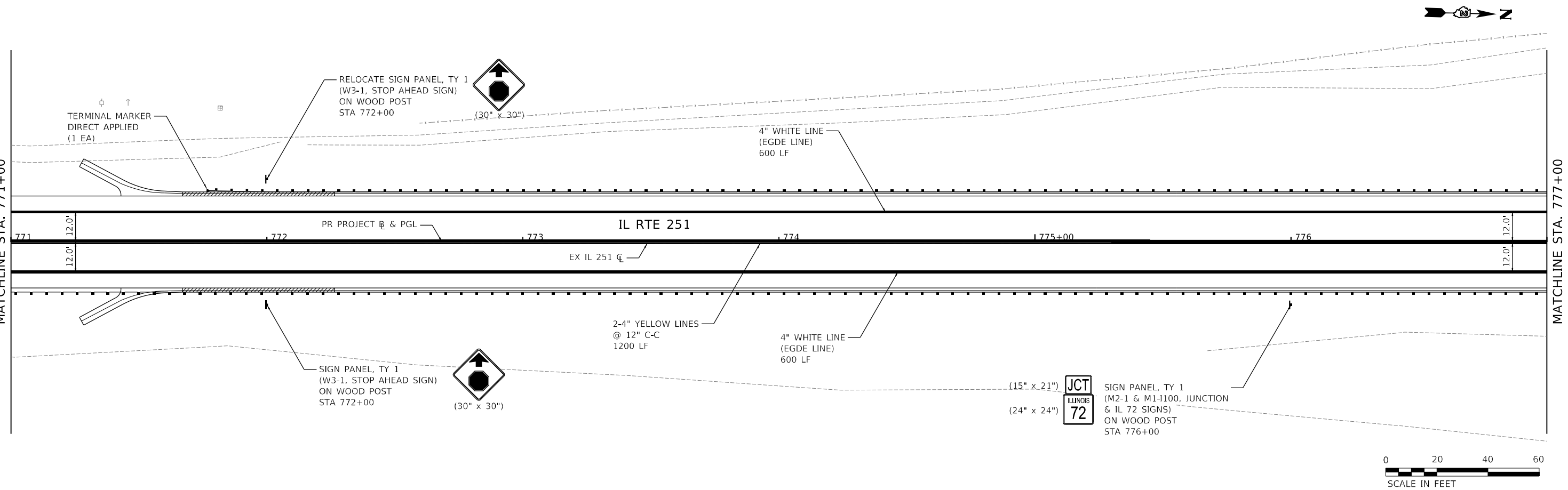
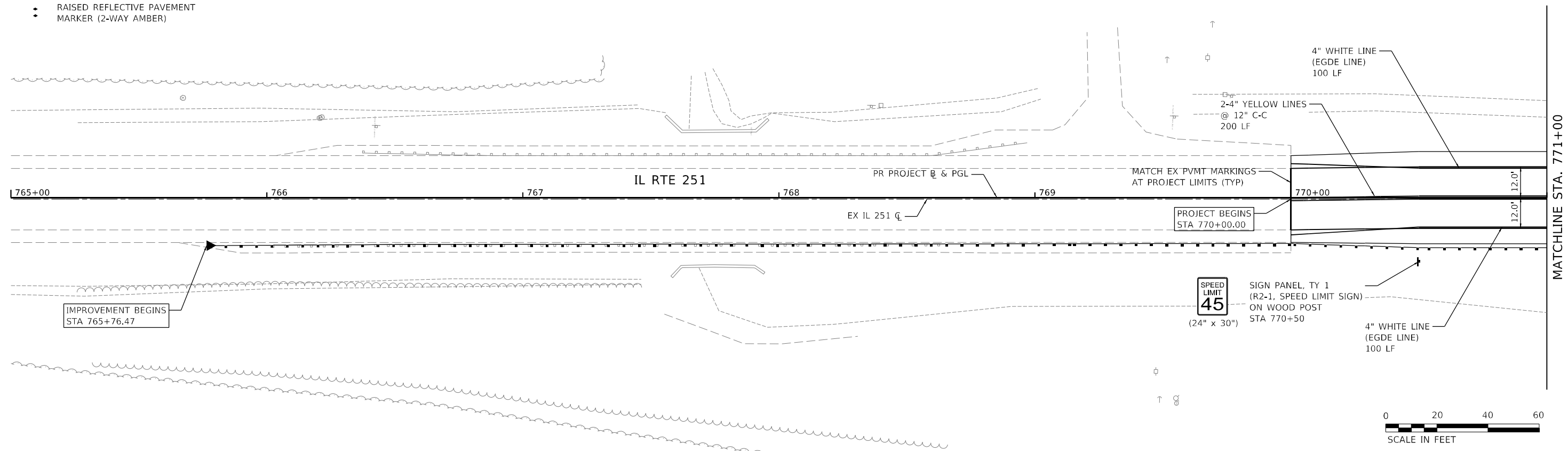
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	34
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

LEGEND

- ↑ SIGN (NEW OR RELOCATED) AS SPECIFIED
- RAISED REFLECTIVE PAVEMENT MARKER (2-WAY AMBER)

NOTES

1. ALL PAVEMENT MARKINGS ON THE ROADWAY AND BRIDGE SURFACE SHALL BE PAINT PAVEMENT MARKINGS.



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	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING PLAN
 IL 251 OVER SOO LINE RAILROAD**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 770+00.00 TO STA. 777+00.00

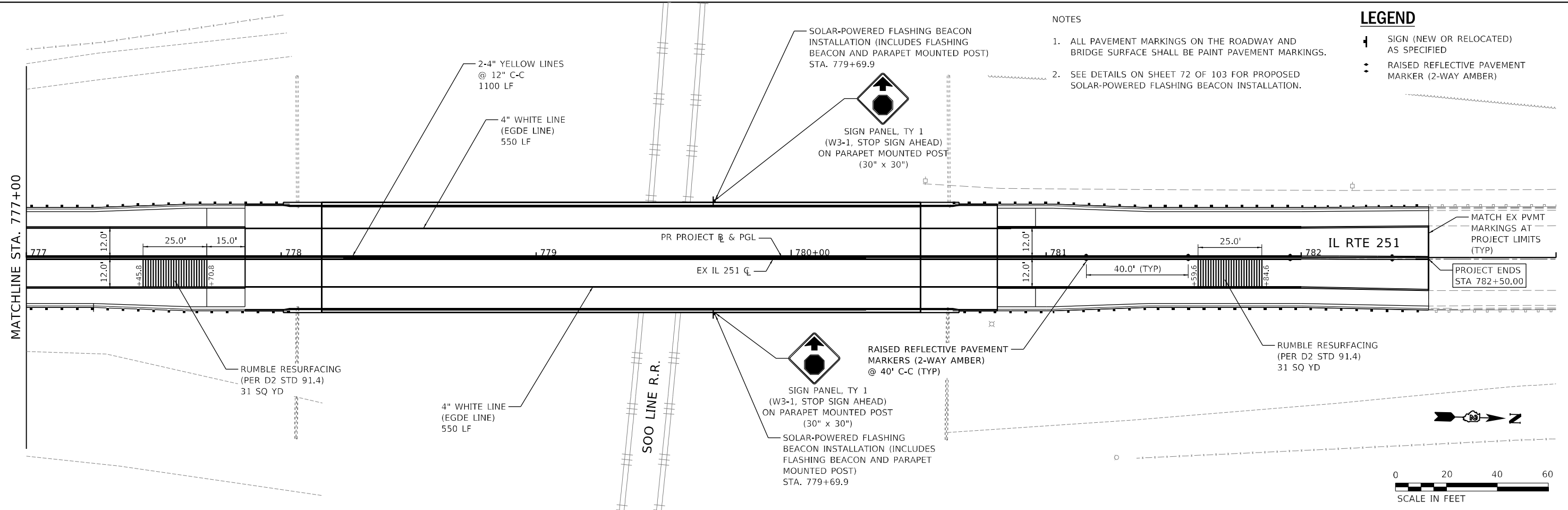
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	35
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

NOTES

1. ALL PAVEMENT MARKINGS ON THE ROADWAY AND BRIDGE SURFACE SHALL BE PAINT PAVEMENT MARKINGS.
2. SEE DETAILS ON SHEET 72 OF 103 FOR PROPOSED SOLAR-POWERED FLASHING BEACON INSTALLATION.

LEGEND

- ┆ SIGN (NEW OR RELOCATED) AS SPECIFIED
- RAISED REFLECTIVE PAVEMENT MARKER (2-WAY AMBER)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN
IL 251 OVER SOO LINE RAILROAD

SCALE: 1"=20'
 SHEET 2 OF 2 SHEETS
 STA. 777+00.00 TO STA. 782+50.00

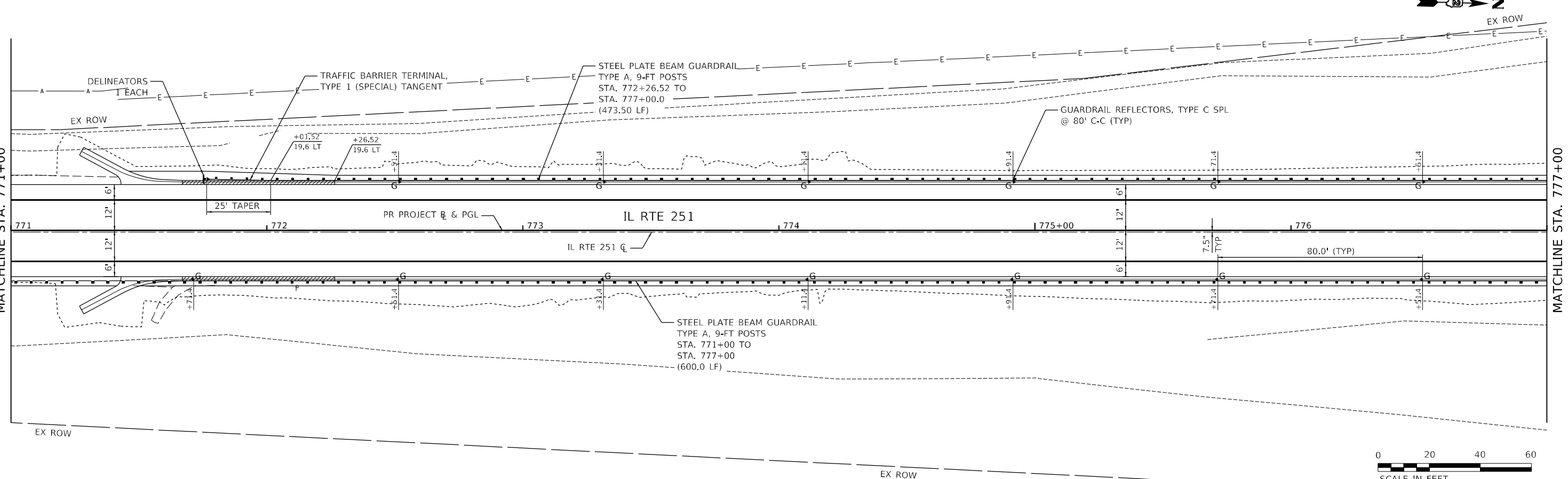
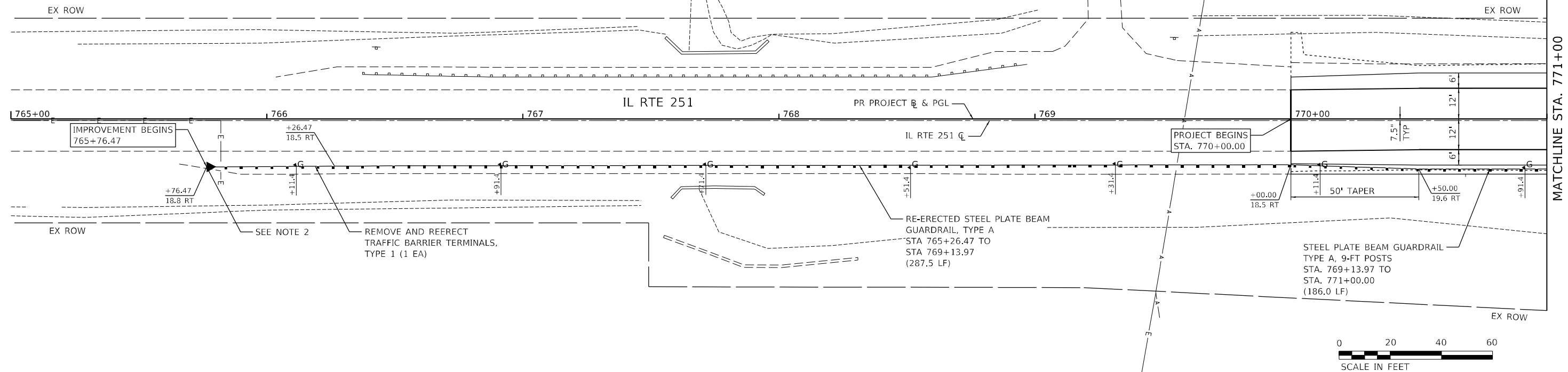
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	36
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

LEGEND

-  GUARDRAIL REFLECTORS, TYPE C SPL EACH
-  LINEAR DELINEATOR PANELS, 6"

NOTES

1. ALL STATION & OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
2. BEGINNING OF TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) SHALL NOT BE LOCATED ANY FURTHER NORTH THAN EXISTING LOCATION.



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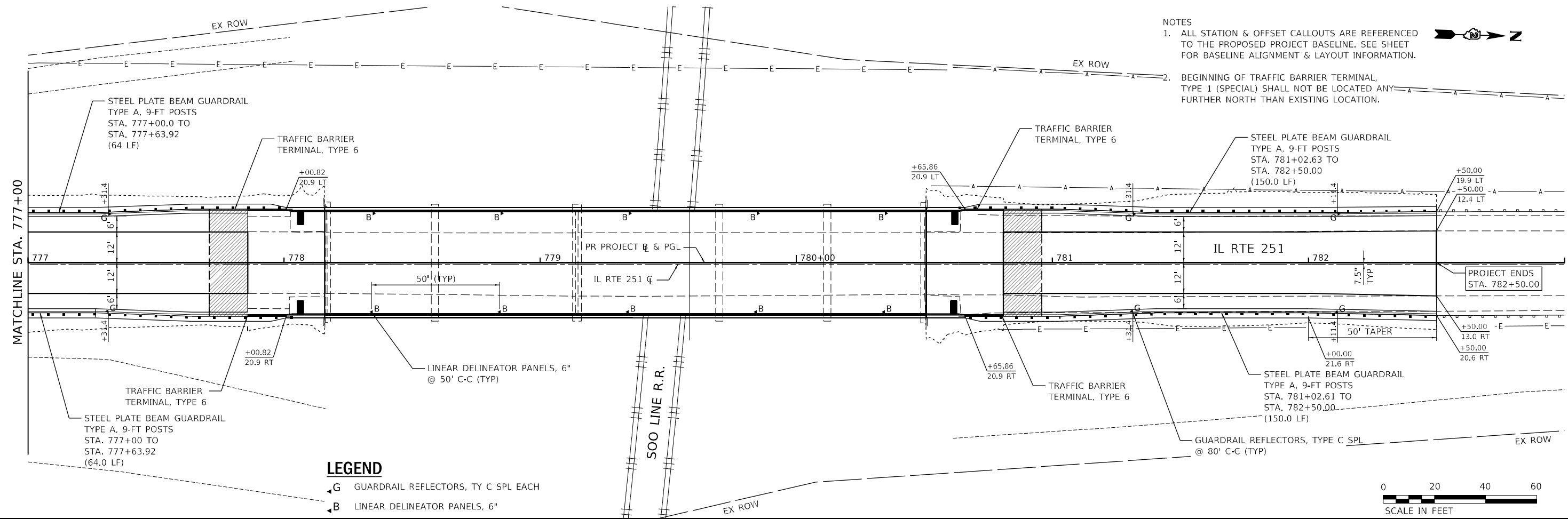
WBK ENGINEERING
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

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	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAIL PLAN
 IL 251 OVER S00 LINE RAILROAD**
 SCALE: 1"=20'
 SHEET 1 OF 2 SHEETS
 STA. 770+00.00 TO STA. 777+00.00

FAS RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 37
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



NOTES
 1. ALL STATION & OFFSET CALLOUTS ARE REFERENCED TO THE PROPOSED PROJECT BASELINE. SEE SHEET FOR BASELINE ALIGNMENT & LAYOUT INFORMATION.
 2. BEGINNING OF TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) SHALL NOT BE LOCATED ANY FURTHER NORTH THAN EXISTING LOCATION.

LEGEND
 G GUARDRAIL REFLECTORS, TY C SPL EACH
 B LINEAR DELINEATOR PANELS, 6"



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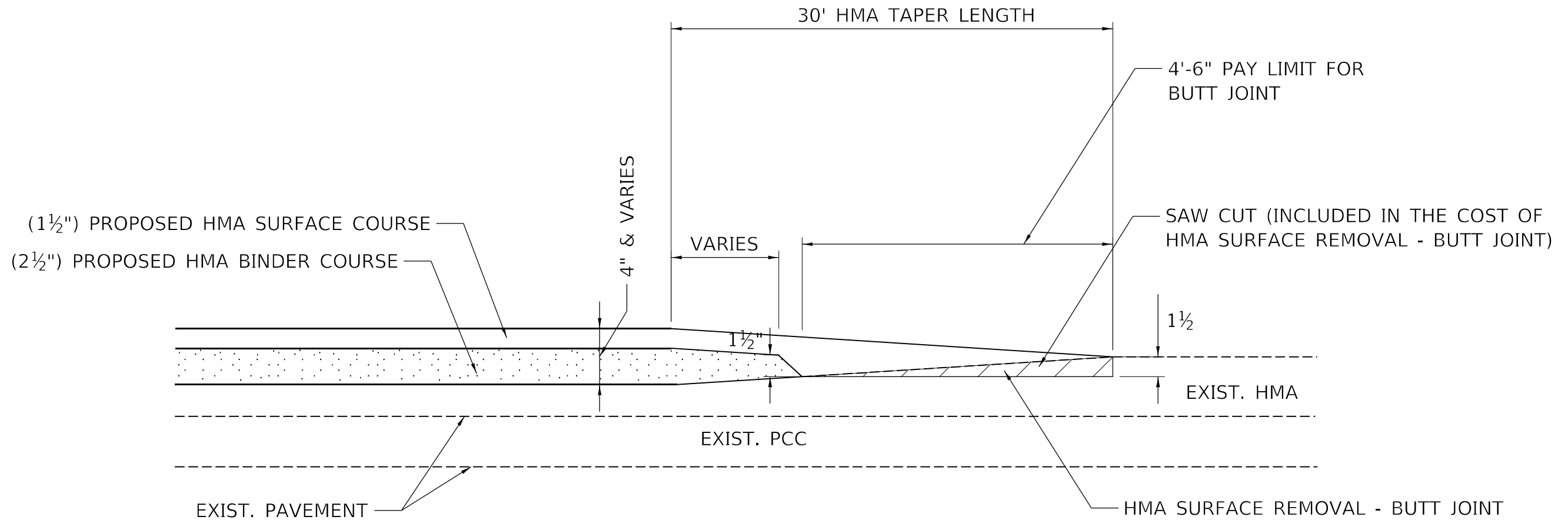
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 116 WEST MAIN STREET, SUITE 201
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL DETAIL PLAN
 IL 251 OVER SOO LINE RAILROAD**
 SCALE: 1"=20'
 SHEET 2 OF 2 SHEETS
 STA. 777+00.00 TO STA. 782+50.00

FAS RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 38
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



**BUTT JOINT AND
HMA TAPER**

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 (630) 443-7755

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	DATE - 6/23/21	REVISED -

DESIGNED - KAC	REVISED -
DRAWN - SS	REVISED -
CHECKED - YOO	REVISED -
DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS IL 251 OVER SOO LINE RAILROAD			
SCALE: N/A	SHEET 1	OF 1 SHEETS	STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	39
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

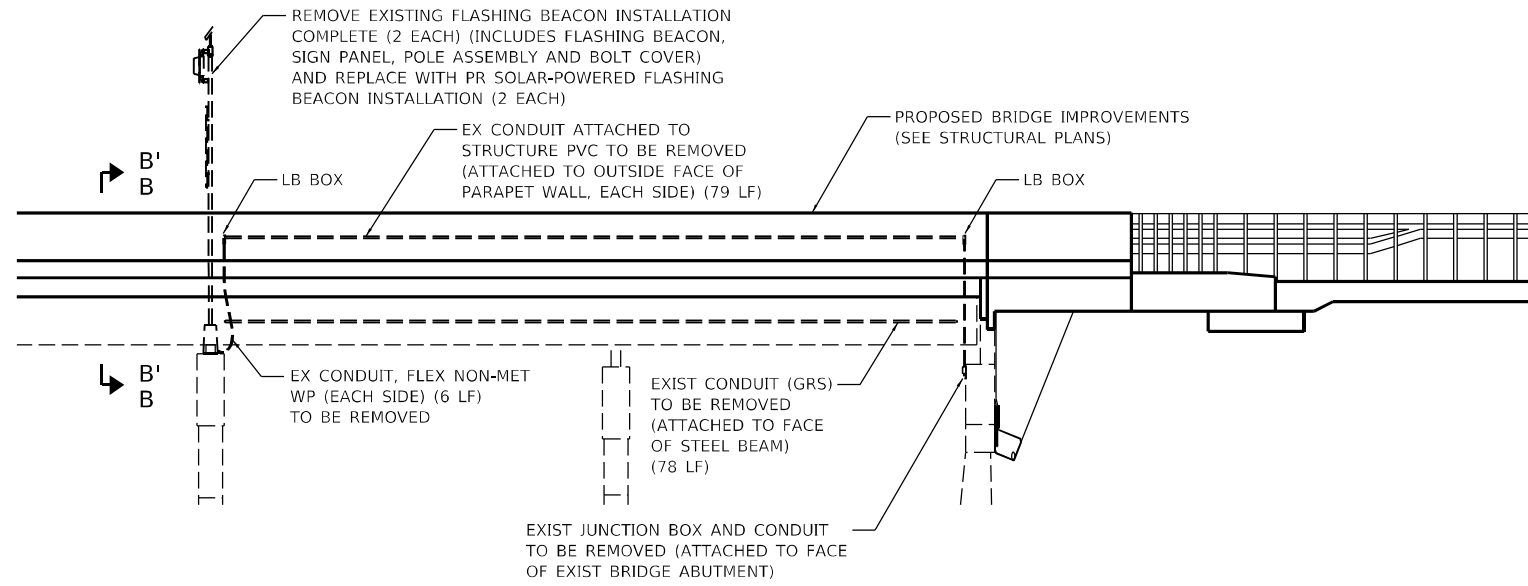
REMOVAL NOTES

THE EXISTING CONDUIT AND CABLE SHALL BE REMOVED IN THEIR ENTIRETY FROM THE EXISTING FLASHING BEACON TO THE SERVICE BOX LOCATED ON THE POWER POLE AT STA. 780+53, 30' LT. MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF-SITE.

THE EXISTING ELECTRIC SYSTEM FOR THE FLASHING BEACON HAS BEEN DETERMINED TO BE ABANDONED. PRIOR TO STARTING ANY ELECTRIC WORK THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION TO GO OVER THE REMOVAL PLAN AND TO VERIFY THAT THERE ARE NO LIVE WIRES WITH THE CIRCUIT TO BE REMOVED.

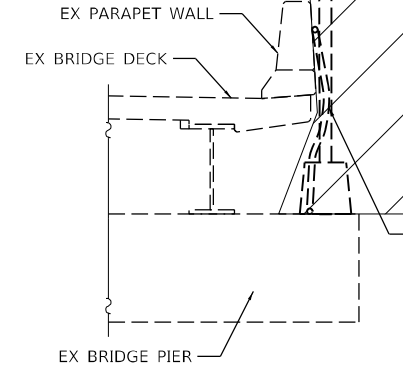
REMOVAL OF THE CABLE AND ALL JUNCTION BOXES SHALL BE INCLUDED IN THE PAY ITEM FOR "REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE".

THE EXISTING SOLAR POWERED BEACONS AND "STOP AHEAD" SIGNS ARE TO BE SALVAGED AND DELIVERED BY THE CONTRACTOR TO THE DISTRICT 2 SIGN SHOP. COST SHALL BE INCLUDED IN "REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE."

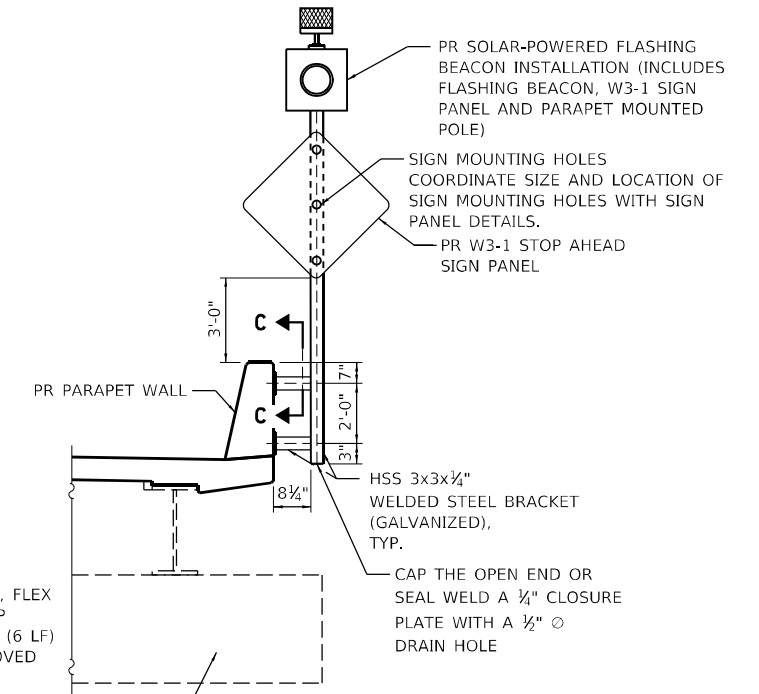


ELEVATION VIEW

REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE (INCLUDES FLASHING BEACON, SIGN PANEL, POLE ASSEMBLY AND BOLT COVER) (2 EACH)

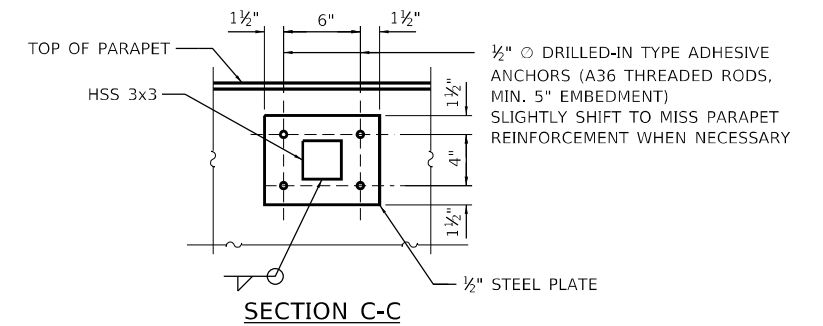


SECTION B-B
(SHOWING REMOVAL OF EX FLASHING BEACON AND CONDUIT)



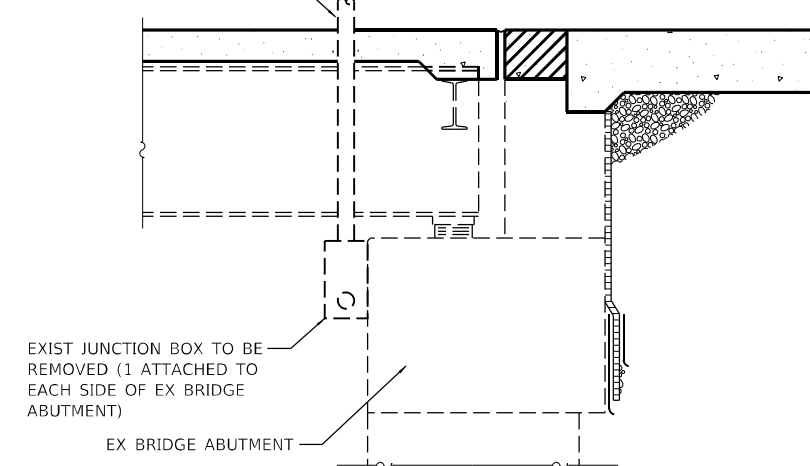
SECTION B'-B'
(SHOWING PR SOLAR-POWERED FLASHING BEACON AND SIGN)

NOTE:
ALL STEEL MEMBERS, PLATES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
SIGN SUPPORT CONFIGURATION PER SECTION B'-B' AND C-C DETAILS SHALL BE INCLUDED IN THE COST FOR SOLAR-POWERED FLASHING BEACON INSTALLATION (EACH)

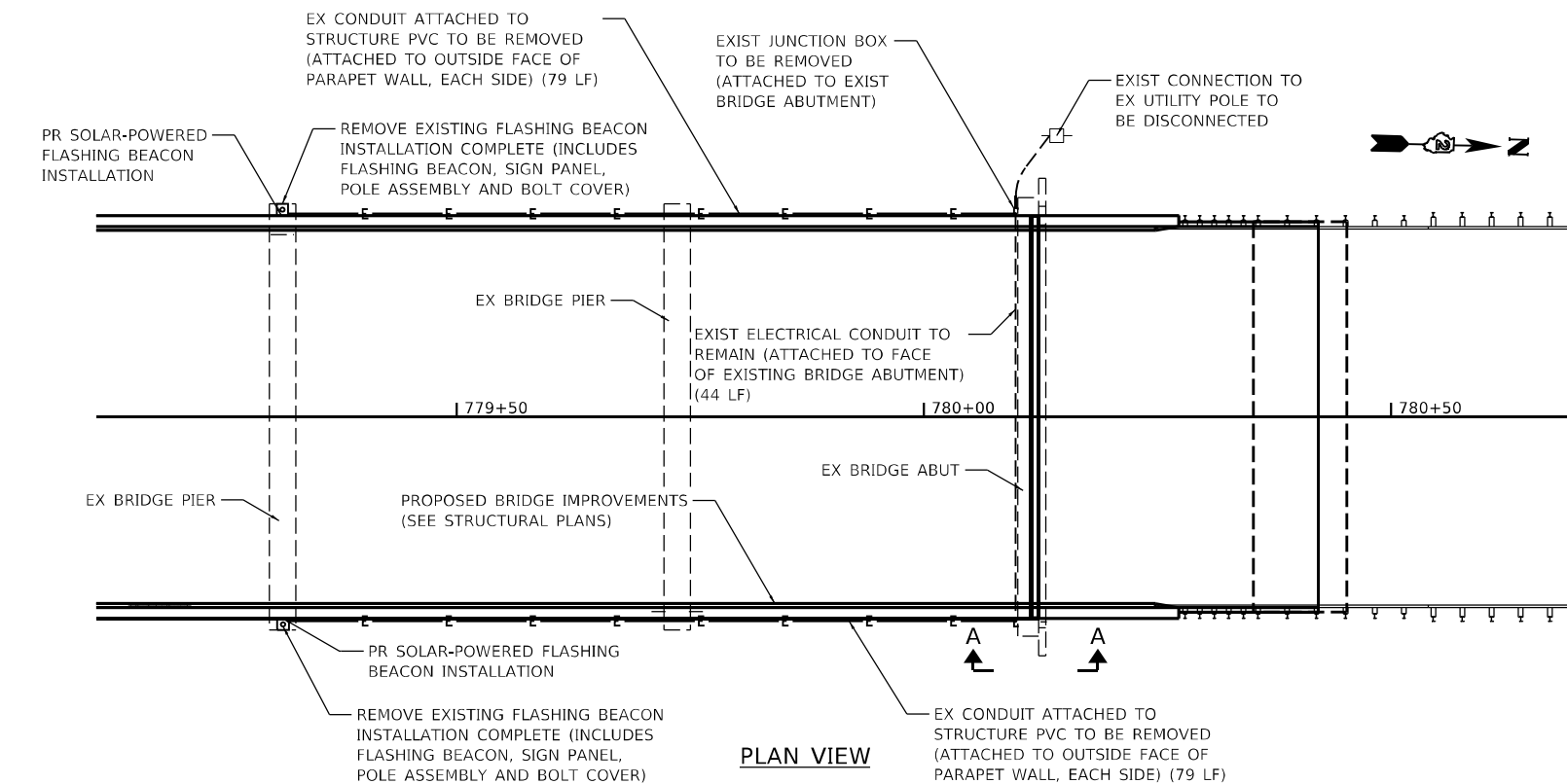


SECTION C-C

EX CONDUIT ATTACHED TO STRUCTURE PVC TO BE REMOVED (ATTACHED TO OUTSIDE FACE OF PARAPET WALL, EACH SIDE) (10 LF)



SECTION A-A



PLAN VIEW

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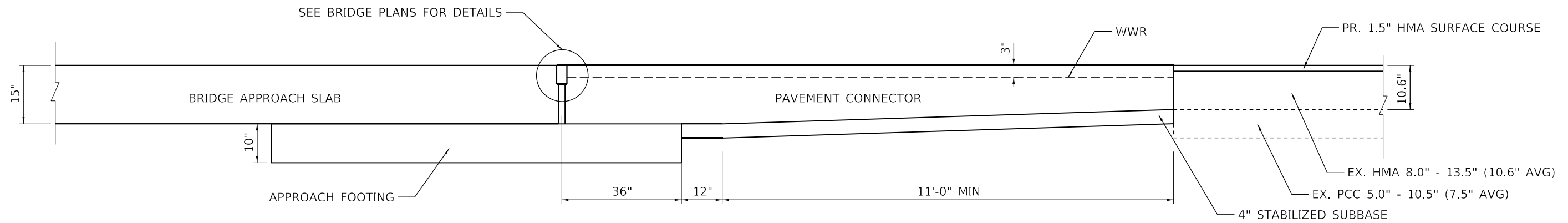
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

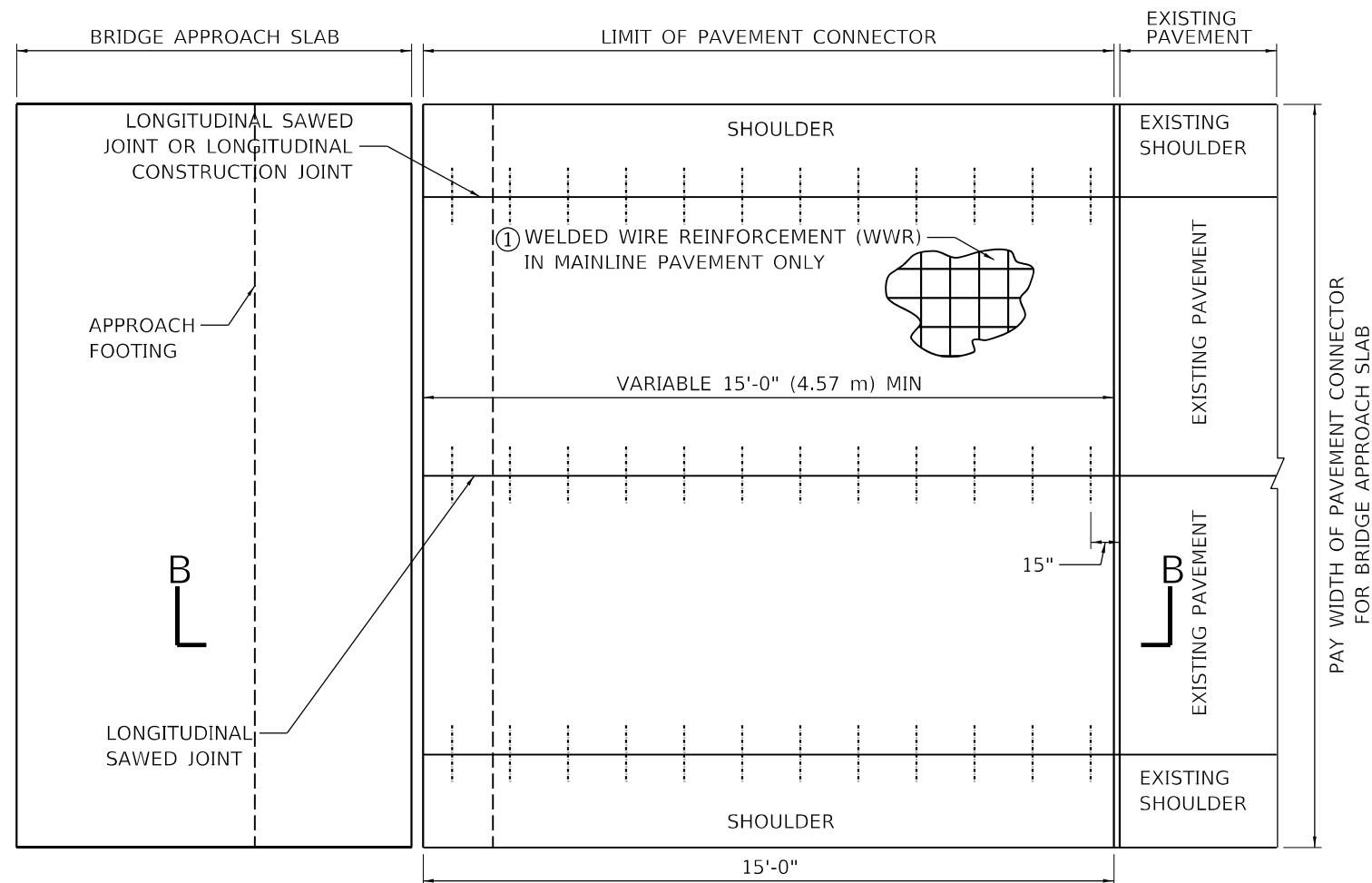
FLASHING BEACON REMOVAL & REPLACEMENT DETAILS
IL 251 OVER SOO LINE RAILROAD

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	40
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



SECTION B-B



**PLAN
EXISTING CONSTRUCTION**

① WWR SHALL BE 0.11 SQ. IN./FT. (320 SQ. MM/M) IN BOTH DIRECTIONS. MAXIMUM WIRE SPACING SHALL BE 6" (150MM). MINIMUM LAP DISTANCE SHALL BE TWO CROSS WIRES.

GENERAL NOTES

1. SEE STANDARD 420001 FOR PAVEMENT JOINT DETAILS NOT SHOWN
2. SEE STANDARD 610001 FOR SHOULDER INLET WITH CURB WHEN REQUIRED
3. SEE PLANS FOR DETAILS OF BRIDGE APPROACH SLAB, APPROACH FOOTING AND JOINT TREATMENT
4. ALL DIMENTIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	DATE - 6/23/21	REVISED -

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	102	41
CONTRACT NO.64L75				
ILLINOIS FED. AID PROJECT				

Benchmark: PK Nail in pavement on the north side of structure. Station 781+40.57, Offset 16.06' left, Elev. 790.59.

Existing Structure: S.N. 071-0001 originally built in 1937 as SBI 70 Section 106 VC and VB and rehabilitated in 1978 as SBI 70 Section 106-V-BR. Structure consists of 5 span W shape steel girders non-continuous at Pier 3 and reinforced concrete deck supported by open counterfort abutments on timber piles and multi-column piers and timber piles. Structure measures 236'-6 1/2" back to back of abutments and 43'-2" out-to-out deck. The existing bridge deck is to be removed and replaced and the substructure to be repaired. Traffic to be detoured during construction.

No salvage.

SCOPE OF WORK

1. Remove and replace existing concrete deck, expansion joints and approach slab.
2. Remove and replace two existing steel diaphragms at the east end of Pier 3.
3. Remove and replace Pier 3 cap and part of columns.
4. Structure repair of concrete at existing abutments and Pier 2.
5. Remove and replace existing bearings at Pier 3.
6. Repair steel as shown.

INDEX OF SHEETS

1. General Plan & Elevation
 2. General Data
 - 3-6. Top of Slab Elevations
 - 7-8. Top of Approach Slab Elevations
 - 9-10. Superstructure
 11. Superstructure Details
 - 12-13. Approach Slab Details
 14. Preformed Joint Strip Seal
 - 15-16. Framing Details
 17. Steel Repair Details
 18. Bearing Details
 19. Abutment Repair Details
 - 20-21. Pier Repair Details
- (For Information Only) Existing Plans (see Roadway Plans)

DESIGN SPECIFICATIONS

(NEW CONSTRUCTION)

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44 (NEW CONSTRUCTION)

Allow 25#/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

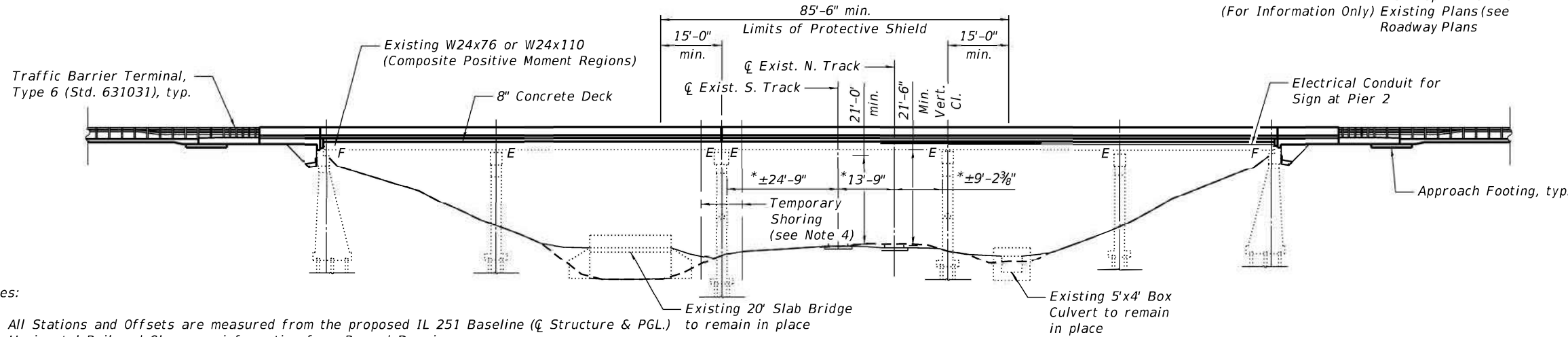
f'c = 3,500 psi
 f'c = 4,000 psi (Superstructure)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)
 fy = 36,000 psi (M270 Grade 36, Exp. Jt. & Bearing plates)

FIELD UNITS (EXISTING CONSTRUCTION)

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement 1978)
 fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Horizontal Bedrock Acceleration Coefficient (A) = 0.034g
 Site coefficient (S) = 1.2

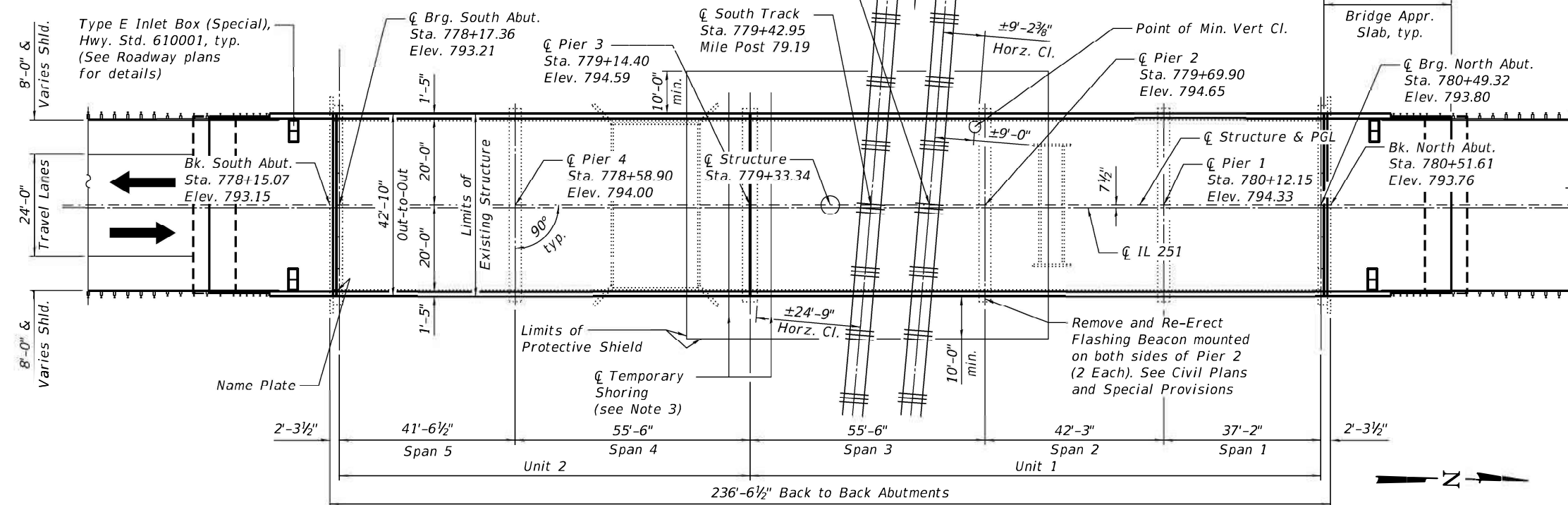


ELEVATION

* Dimensions at Rt. L's to Tracks



- Notes:
1. All Stations and Offsets are measured from the proposed IL 251 Baseline (CL Structure & PGL.)
 2. Horizontal Railroad Clearance information from Record Drawings.
 3. No freefall deck drains will be permitted in the span over the tracks or within 10 ft of cross arms of a railroad pole.
 4. The Contractor shall temporarily shore the Span 3 and Span 4 beams during the time a portion of Pier 3 is being removed and reconstructed.
 5. Final location and details of temporary shoring to be determined by the Contractor, subject to approval by the Engineer and the Railroad Company.
 6. See Sheet 21 of 21 for Temporary Shoring Reactions.
 7. Any access roads required to complete the work specified in these plans shall be the responsibility of the Contractor and included in the cost of this Contract. See Special Provision for "Right-of-Way and Access."



GENERAL NOTES

- All structural steel shall be AASHTO M 270 Grade 50 (except expansion joints which shall be AASHTO M 270 Grade 36).
- Reinforcement bars designated (E) shall be epoxy coated.
- No field welding is permitted except as specified in the contract documents.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

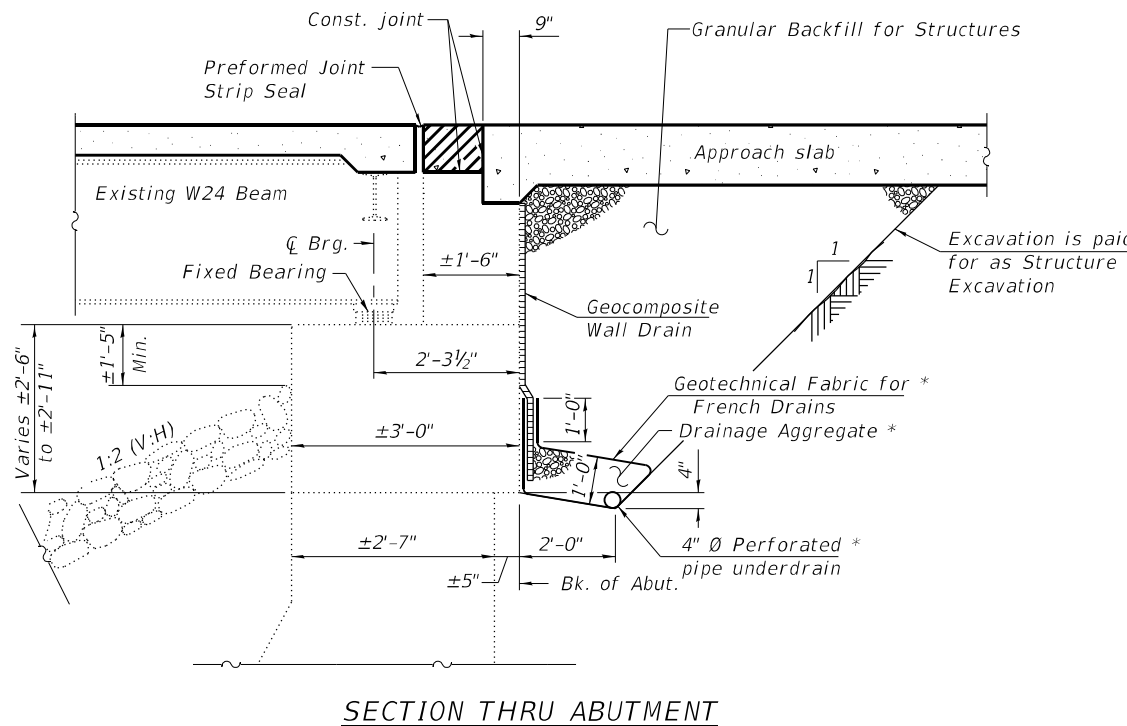
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- The existing expansion joint assemblies have been shop painted with basic lead silico chromate paint. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- All new structural steel shall be galvanized according to GBSP 83 "Hot Dip Galvanizing for Structural Steel".
- Fasteners shall be ASTM F3125 Grade A325 Type 1, hot dip galvanized bolts. Bolts 3/4-in. Ø, holes 13/16-in. Ø, unless otherwise noted.
- Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.
- Slipforming of the parapets is not allowed.
- Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 10 ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SP15).

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Topcoat. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Containment of cleaning residue is required to control nuisance dust. See special provisions.

- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering Removal of Existing Concrete Deck.
- If additional steel repairs are required, the contractor shall be paid for the actual structural steel used for the repairs.
- The finishing machine rails shall be placed on the top flange of the exterior beams.



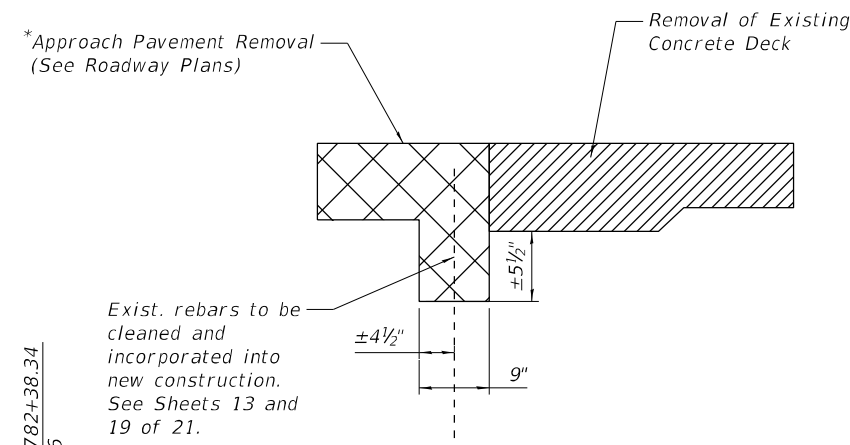
SECTION THRU ABUTMENT

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	11.5	24.6	36.1
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	597		597
Structure Excavation	Cu. Yd.		77.7	77.7
Concrete Structures	Cu. Yd.	25.9	24.4	50.3
Concrete Superstructure	Cu. Yd.	348.4		348.4
Bridge Deck Grooving	Sq. Yd.	1,237		1,237
Protective Coat	Sq. Yd.	1,548		1,548
Concrete Superstructure (Approach Slab)	Cu. Yd.	119.4		119.4
Furnishing and Erecting Structural Steel	Pound	587		587
Stud Shear Connectors	Each	360		360
Reinforcement Bars, Epoxy Coated	Pound	142,410	3,500	145,910
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	126		126
Elastomeric Bearing Assembly, Type II	Each	12		12
Anchor Bolts, 1"	Each	24		24
Granular Backfill for Structures	Cu. Yd.		85.5	85.5
Concrete Sealer	Sq. Ft.		849	849
Epoxy Crack Injection	Foot		5	5
Geocomposite Wall Drain	Sq. Yd.		53	53
Structural Steel Removal	Pound	587		587
Structural Steel Repair	Pound	8,900		8,900
Removal of Existing Bearings	Each	12		12
Cleaning and Painting Steel Bridge No. 1	L Sum	1		1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		2	2
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.		10	10
Pipe Underdrains for Structures, 4"	Foot		137	137
Temporary Shoring	Each		2	2
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L Sum	1		1

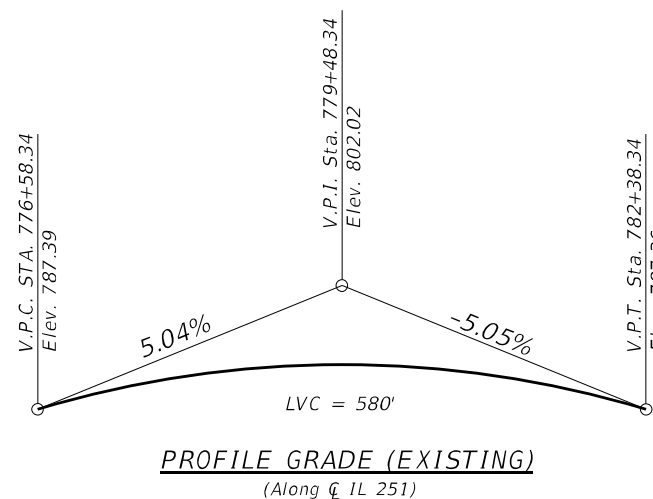


REMOVAL DETAIL
(Section thru Existing Abutment)

*Approach slab removal quantity included with Concrete Removal.

STATION 779+33.34
RE-BUILT 21__ BY
STATE OF ILLINOIS
F.A.S. RT. 1042 SEC. 106-V-BR
LOADING HS20-44
STRUCTURE NO. 071-0001

NAME PLATE
See Note 9, this page,
and Std. 515001



PROFILE GRADE (EXISTING)
(Along CL 251)

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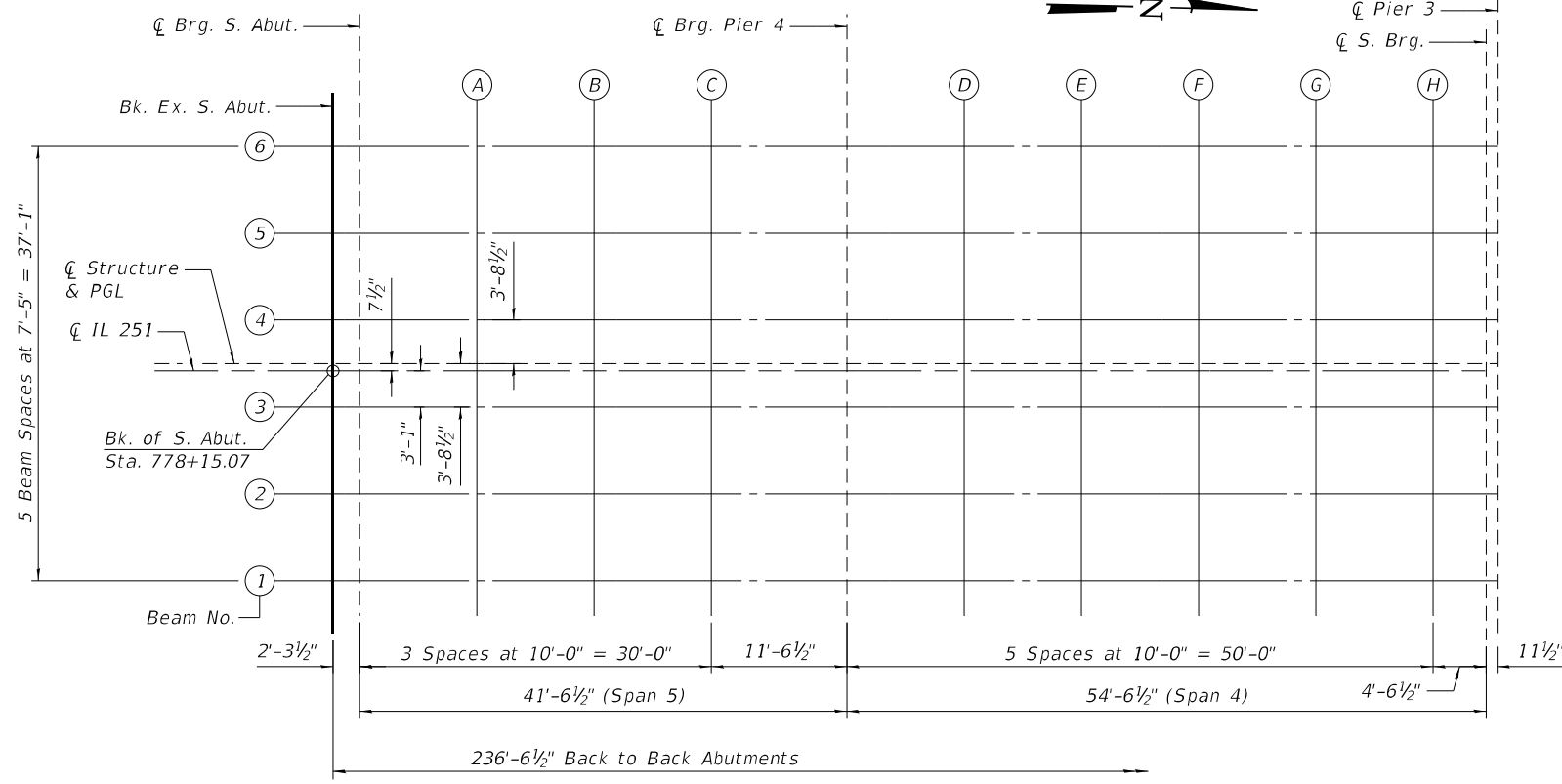
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

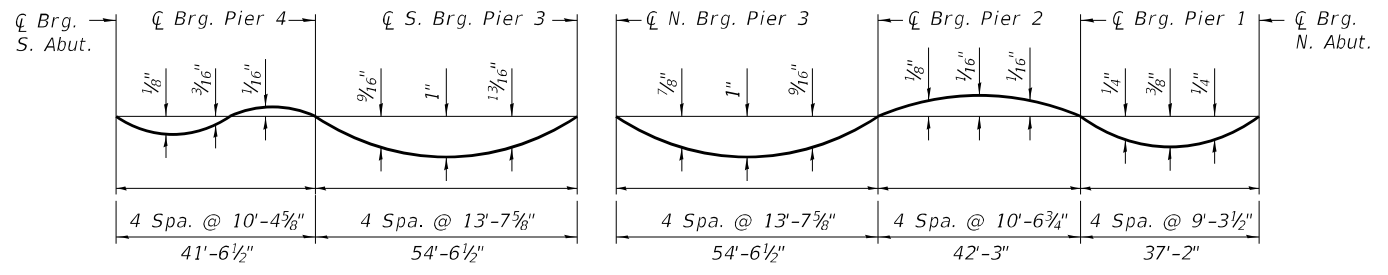
**GENERAL DATA
STRUCTURE NO. 071-0001**

SHEET NO. 2 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	43
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	



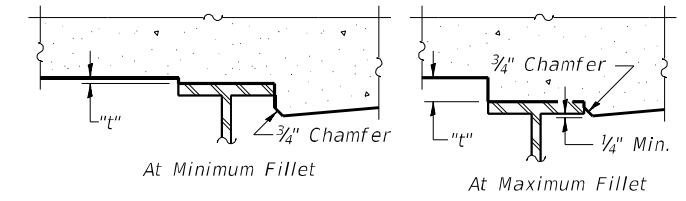
PLAN



DEAD LOAD DEFLECTION DIAGRAM

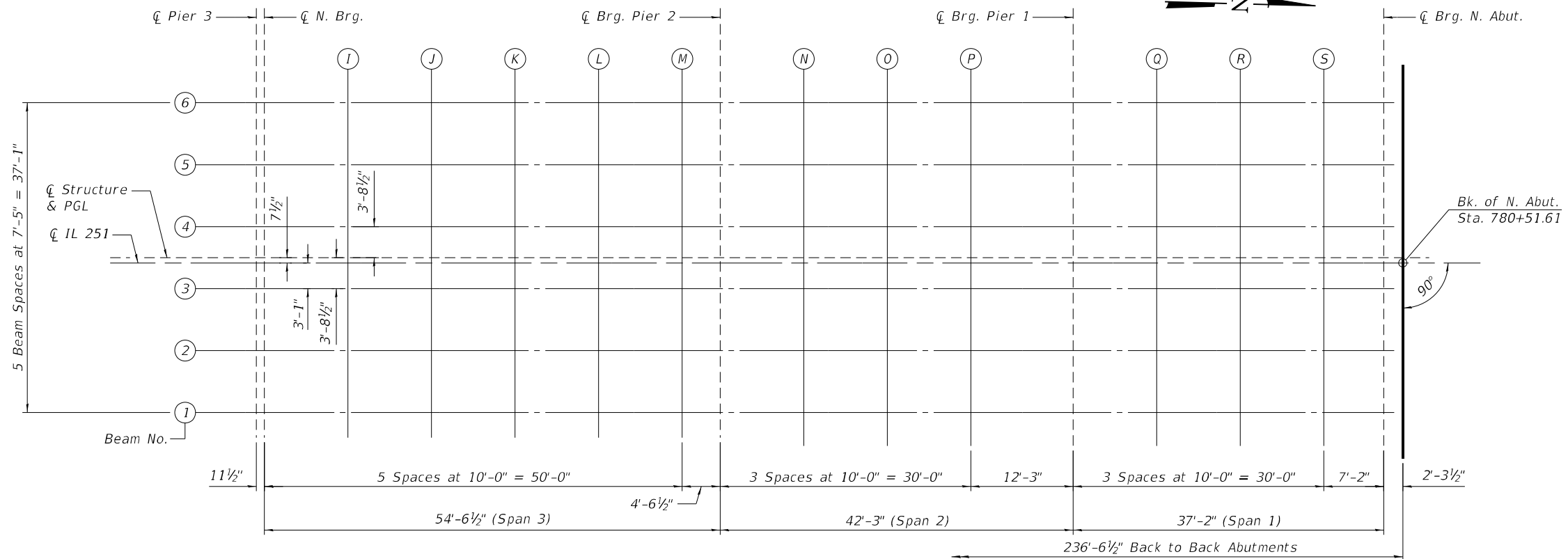
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in the tables on Sheets 4, 5 and 6 of 21.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 4, 5, and 6 of 21, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

(Sheet 1 of 4)

FILE NAME = Z:\2018\180228 FTBIBR\cadd\Structural\Dgn\W012\500 Line Bridge\0209616-003-TS10bE1v01.dgn

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USER NAME = ctacey	DESIGNED - CPT	REVISED -
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PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 071-0001

SHEET NO. 3 OF 21 SHEETS

F.A.S. RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 44
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

Beam 1

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	18.54	792.83	792.83
CL Brg. S. Abut	778+17.36	18.54	792.89	792.89
A	778+27.36	18.54	793.10	793.11
B	778+37.36	18.54	793.31	793.32
C	778+47.36	18.54	793.49	793.48
CL Brg. Pier 4	778+58.90	18.54	793.68	793.68
D	778+68.90	18.54	793.83	793.86
E	778+78.90	18.54	793.96	794.03
F	778+88.90	18.54	794.07	794.15
G	778+98.90	18.54	794.16	794.23
H	779+08.90	18.54	794.24	794.27
CL S. Brg. Pier 3	779+13.45	18.54	794.27	794.27
CL Pier 3	779+14.40	18.54	794.27	794.27
CL N. Brg. Pier 3	779+15.36	18.54	794.28	794.28
I	779+25.36	18.54	794.33	794.38
J	779+35.36	18.54	794.36	794.44
K	779+45.36	18.54	794.37	794.45
L	779+55.36	18.54	794.36	794.41
M	779+65.36	18.54	794.34	794.35
CL Brg. Pier 2	779+69.90	18.54	794.32	794.32
N	779+79.90	18.54	794.28	794.27
O	779+89.90	18.54	794.21	794.21
P	779+99.90	18.54	794.13	794.13
CL Brg. Pier 1	780+12.15	18.54	794.01	794.01
Q	780+22.15	18.54	793.89	793.91
R	780+32.15	18.54	793.75	793.78
S	780+42.15	18.54	793.60	793.61
CL Brg. N. Abut	780+49.32	18.54	793.47	793.47
Bk. of N. Abut	780+51.61	18.54	793.43	793.43

Beam 2

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	11.13	792.98	792.98
CL Brg. S. Abut	778+17.36	11.13	793.04	793.04
A	778+27.36	11.13	793.25	793.26
B	778+37.36	11.13	793.46	793.47
C	778+47.36	11.13	793.64	793.63
CL Brg. Pier 4	778+58.90	11.13	793.83	793.83
D	778+68.90	11.13	793.98	794.01
E	778+78.90	11.13	794.11	794.18
F	778+88.90	11.13	794.22	794.30
G	778+98.90	11.13	794.31	794.38
H	779+08.90	11.13	794.39	794.42
CL S. Brg. Pier 3	779+13.45	11.13	794.42	794.42
CL Pier 3	779+14.40	11.13	794.42	794.42
CL N. Brg. Pier 3	779+15.36	11.13	794.43	794.43
I	779+25.36	11.13	794.48	794.53
J	779+35.36	11.13	794.51	794.59
K	779+45.36	11.13	794.52	794.60
L	779+55.36	11.13	794.51	794.56
M	779+65.36	11.13	794.49	794.50
CL Brg. Pier 2	779+69.90	11.13	794.47	794.47
N	779+79.90	11.13	794.43	794.42
O	779+89.90	11.13	794.36	794.36
P	779+99.90	11.13	794.28	794.28
CL Brg. Pier 1	780+12.15	11.13	794.16	794.16
Q	780+22.15	11.13	794.04	794.06
R	780+32.15	11.13	793.90	793.93
S	780+42.15	11.13	793.75	793.76
CL Brg. N. Abut	780+49.32	11.13	793.62	793.62
Bk. of N. Abut	780+51.61	11.13	793.58	793.58

Beam 3

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	3.71	793.10	793.10
CL Brg. S. Abut	778+17.36	3.71	793.15	793.15
A	778+27.36	3.71	793.37	793.38
B	778+37.36	3.71	793.57	793.59
C	778+47.36	3.71	793.76	793.75
CL Brg. Pier 4	778+58.90	3.71	793.95	793.95
D	778+68.90	3.71	794.09	794.13
E	778+78.90	3.71	794.22	794.29
F	778+88.90	3.71	794.33	794.42
G	778+98.90	3.71	794.43	794.50
H	779+08.90	3.71	794.51	794.53
CL S. Brg. Pier 3	779+13.45	3.71	794.54	794.54
CL Pier 3	779+14.40	3.71	794.54	794.54
CL N. Brg. Pier 3	779+15.36	3.71	794.55	794.55
I	779+25.36	3.71	794.59	794.64
J	779+35.36	3.71	794.63	794.71
K	779+45.36	3.71	794.64	794.71
L	779+55.36	3.71	794.63	794.68
M	779+65.36	3.71	794.61	794.62
CL Brg. Pier 2	779+69.90	3.71	794.59	794.59
N	779+79.90	3.71	794.54	794.53
O	779+89.90	3.71	794.48	794.47
P	779+99.90	3.71	794.40	794.39
CL Brg. Pier 1	780+12.15	3.71	794.27	794.27
Q	780+22.15	3.71	794.15	794.18
R	780+32.15	3.71	794.02	794.05
S	780+42.15	3.71	793.86	793.88
CL Brg. N. Abut	780+49.32	3.71	793.74	793.74
Bk. of N. Abut	780+51.61	3.71	793.70	793.70

(Sheet 2 of 4)

FILE NAME = Z:\2018\180228 FTBIB\cadd\Structural\Dgn\W012\500 Line Bridge\020916\004-TS1\01\02.dgn

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USER NAME = ctacey	DESIGNED - CPT	REVISED -
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PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 071-0001**

SHEET NO. 4 OF 21 SHEETS

F.A.S. RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 45
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

IL 251

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	0.63	793.15	793.15
CL Brg. S. Abut	778+17.36	0.63	793.20	793.20
A	778+27.36	0.63	793.42	793.43
B	778+37.36	0.63	793.62	793.63
C	778+47.36	0.63	793.80	793.80
CL Brg. Pier 4	778+58.90	0.63	793.99	793.99
D	778+68.90	0.63	794.14	794.17
E	778+78.90	0.63	794.27	794.34
F	778+88.90	0.63	794.38	794.46
G	778+98.90	0.63	794.48	794.54
H	779+08.90	0.63	794.55	794.58
CL S. Brg. Pier 3	779+13.45	0.63	794.58	794.58
CL Pier 3	779+14.40	0.63	794.59	794.59
CL N. Brg. Pier 3	779+15.36	0.63	794.59	794.59
I	779+25.36	0.63	794.64	794.69
J	779+35.36	0.63	794.67	794.75
K	779+45.36	0.63	794.69	794.76
L	779+55.36	0.63	794.67	794.72
M	779+65.36	0.63	794.65	794.67
CL Brg. Pier 2	779+69.90	0.63	794.64	794.64
N	779+79.90	0.63	794.59	794.58
O	779+89.90	0.63	794.53	794.52
P	779+99.90	0.63	794.45	794.44
CL Brg. Pier 1	780+12.15	0.63	794.32	794.32
Q	780+22.15	0.63	794.20	794.22
R	780+32.15	0.63	794.06	794.09
S	780+42.15	0.63	793.91	793.93
CL Brg. N. Abut	780+49.32	0.63	793.79	793.79
Bk. of N. Abut	780+51.61	0.63	793.75	793.75

Structure & PGL

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	0.00	793.16	793.16
CL Brg. S. Abut	778+17.36	0.00	793.21	793.21
A	778+27.36	0.00	793.43	793.44
B	778+37.36	0.00	793.63	793.64
C	778+47.36	0.00	793.81	793.81
CL Brg. Pier 4	778+58.90	0.00	794.00	794.00
D	778+68.90	0.00	794.15	794.18
E	778+78.90	0.00	794.28	794.35
F	778+88.90	0.00	794.39	794.47
G	778+98.90	0.00	794.49	794.55
H	779+08.90	0.00	794.56	794.59
CL S. Brg. Pier 3	779+13.45	0.00	794.59	794.59
CL Pier 3	779+14.40	0.00	794.60	794.60
CL N. Brg. Pier 3	779+15.36	0.00	794.60	794.60
I	779+25.36	0.00	794.65	794.70
J	779+35.36	0.00	794.68	794.76
K	779+45.36	0.00	794.70	794.77
L	779+55.36	0.00	794.68	794.73
M	779+65.36	0.00	794.66	794.68
CL Brg. Pier 2	779+69.90	0.00	794.65	794.65
N	779+79.90	0.00	794.60	794.59
O	779+89.90	0.00	794.54	794.53
P	779+99.90	0.00	794.46	794.45
CL Brg. Pier 1	780+12.15	0.00	794.33	794.33
Q	780+22.15	0.00	794.21	794.23
R	780+32.15	0.00	794.07	794.10
S	780+42.15	0.00	793.92	793.94
CL Brg. N. Abut	780+49.32	0.00	793.80	793.80
Bk. of N. Abut	780+51.61	0.00	793.76	793.76

Beam 4

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	-3.71	793.10	793.10
CL Brg. S. Abut	778+17.36	-3.71	793.15	793.15
A	778+27.36	-3.71	793.37	793.38
B	778+37.36	-3.71	793.57	793.59
C	778+47.36	-3.71	793.76	793.75
CL Brg. Pier 4	778+58.90	-3.71	793.95	793.95
D	778+68.90	-3.71	794.09	794.13
E	778+78.90	-3.71	794.22	794.29
F	778+88.90	-3.71	794.33	794.42
G	778+98.90	-3.71	794.43	794.50
H	779+08.90	-3.71	794.51	794.53
CL S. Brg. Pier 3	779+13.45	-3.71	794.54	794.54
CL Pier 3	779+14.40	-3.71	794.54	794.54
CL N. Brg. Pier 3	779+15.36	-3.71	794.55	794.55
I	779+25.36	-3.71	794.59	794.64
J	779+35.36	-3.71	794.63	794.71
K	779+45.36	-3.71	794.64	794.71
L	779+55.36	-3.71	794.63	794.68
M	779+65.36	-3.71	794.61	794.62
CL Brg. Pier 2	779+69.90	-3.71	794.59	794.59
N	779+79.90	-3.71	794.54	794.53
O	779+89.90	-3.71	794.48	794.47
P	779+99.90	-3.71	794.40	794.39
CL Brg. Pier 1	780+12.15	-3.71	794.27	794.27
Q	780+22.15	-3.71	794.15	794.18
R	780+32.15	-3.71	794.02	794.05
S	780+42.15	-3.71	793.86	793.88
CL Brg. N. Abut	780+49.32	-3.71	793.74	793.74
Bk. of N. Abut	780+51.61	-3.71	793.70	793.70

(Sheet 3 of 4)

FILE NAME = Z:\2018\180228 FTB18\cadd\Structural\Dgn\W012\500 Line Bridge\020916-005-TS1\01.dgn

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PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 071-0001

SHEET NO. 5 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	46
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

Beam 5

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	-11.13	792.98	792.98
CL Brg. S. Abut	778+17.36	-11.13	793.04	793.04
A	778+27.36	-11.13	793.25	793.26
B	778+37.36	-11.13	793.46	793.47
C	778+47.36	-11.13	793.64	793.63
CL Brg. Pier 4	778+58.90	-11.13	793.83	793.83
D	778+68.90	-11.13	793.98	794.01
E	778+78.90	-11.13	794.11	794.18
F	778+88.90	-11.13	794.22	794.30
G	778+98.90	-11.13	794.31	794.38
H	779+08.90	-11.13	794.39	794.42
CL S. Brg. Pier 3	779+13.45	-11.13	794.42	794.42
CL Pier 3	779+14.40	-11.13	794.42	794.42
CL N. Brg. Pier 3	779+15.36	-11.13	794.43	794.43
I	779+25.36	-11.13	794.48	794.53
J	779+35.36	-11.13	794.51	794.59
K	779+45.36	-11.13	794.52	794.60
L	779+55.36	-11.13	794.51	794.56
M	779+65.36	-11.13	794.49	794.50
CL Brg. Pier 2	779+69.90	-11.13	794.47	794.47
N	779+79.90	-11.13	794.43	794.42
O	779+89.90	-11.13	794.36	794.36
P	779+99.90	-11.13	794.28	794.28
CL Brg. Pier 1	780+12.15	-11.13	794.16	794.16
Q	780+22.15	-11.13	794.04	794.06
R	780+32.15	-11.13	793.90	793.93
S	780+42.15	-11.13	793.75	793.76
CL Brg. N. Abut	780+49.32	-11.13	793.62	793.62
Bk. of N. Abut	780+51.61	-11.13	793.58	793.58

Beam 6

Location	Station	Offset (ft)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut	778+15.07	-18.54	792.83	792.83
CL Brg. S. Abut	778+17.36	-18.54	792.89	792.89
A	778+27.36	-18.54	793.10	793.11
B	778+37.36	-18.54	793.31	793.32
C	778+47.36	-18.54	793.49	793.48
CL Brg. Pier 4	778+58.90	-18.54	793.68	793.68
D	778+68.90	-18.54	793.83	793.86
E	778+78.90	-18.54	793.96	794.03
F	778+88.90	-18.54	794.07	794.15
G	778+98.90	-18.54	794.16	794.23
H	779+08.90	-18.54	794.24	794.27
CL S. Brg. Pier 3	779+13.45	-18.54	794.27	794.27
CL Pier 3	779+14.40	-18.54	794.27	794.27
CL N. Brg. Pier 3	779+15.36	-18.54	794.28	794.28
I	779+25.36	-18.54	794.33	794.38
J	779+35.36	-18.54	794.36	794.44
K	779+45.36	-18.54	794.37	794.45
L	779+55.36	-18.54	794.36	794.41
M	779+65.36	-18.54	794.34	794.35
CL Brg. Pier 2	779+69.90	-18.54	794.32	794.32
N	779+79.90	-18.54	794.28	794.27
O	779+89.90	-18.54	794.21	794.21
P	779+99.90	-18.54	794.13	794.13
CL Brg. Pier 1	780+12.15	-18.54	794.01	794.01
Q	780+22.15	-18.54	793.89	793.91
R	780+32.15	-18.54	793.75	793.78
S	780+42.15	-18.54	793.60	793.61
CL Brg. N. Abut	780+49.32	-18.54	793.47	793.47
Bk. of N. Abut	780+51.61	-18.54	793.43	793.43

(Sheet 4 of 4)

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USER NAME = ctacey	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 071-0001**

SHEET NO. 6 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	47
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	-20.00	792.05
A1	777+95.82	-20.00	792.32
A2	778+05.82	-20.00	792.58
N. End S. Appr. Pvmt.	778+15.82	-20.00	792.82

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	-12.00	792.22
A1	777+95.82	-12.00	792.49
A2	778+05.82	-12.00	792.75
N. End S. Appr. Pvmt.	778+15.82	-12.00	792.99

∅ STRUCTURE & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	0.00	792.40
A1	777+95.82	0.00	792.68
A2	778+05.82	0.00	792.93
N. End S. Appr. Pvmt.	778+15.82	0.00	793.17

∅ IL 251

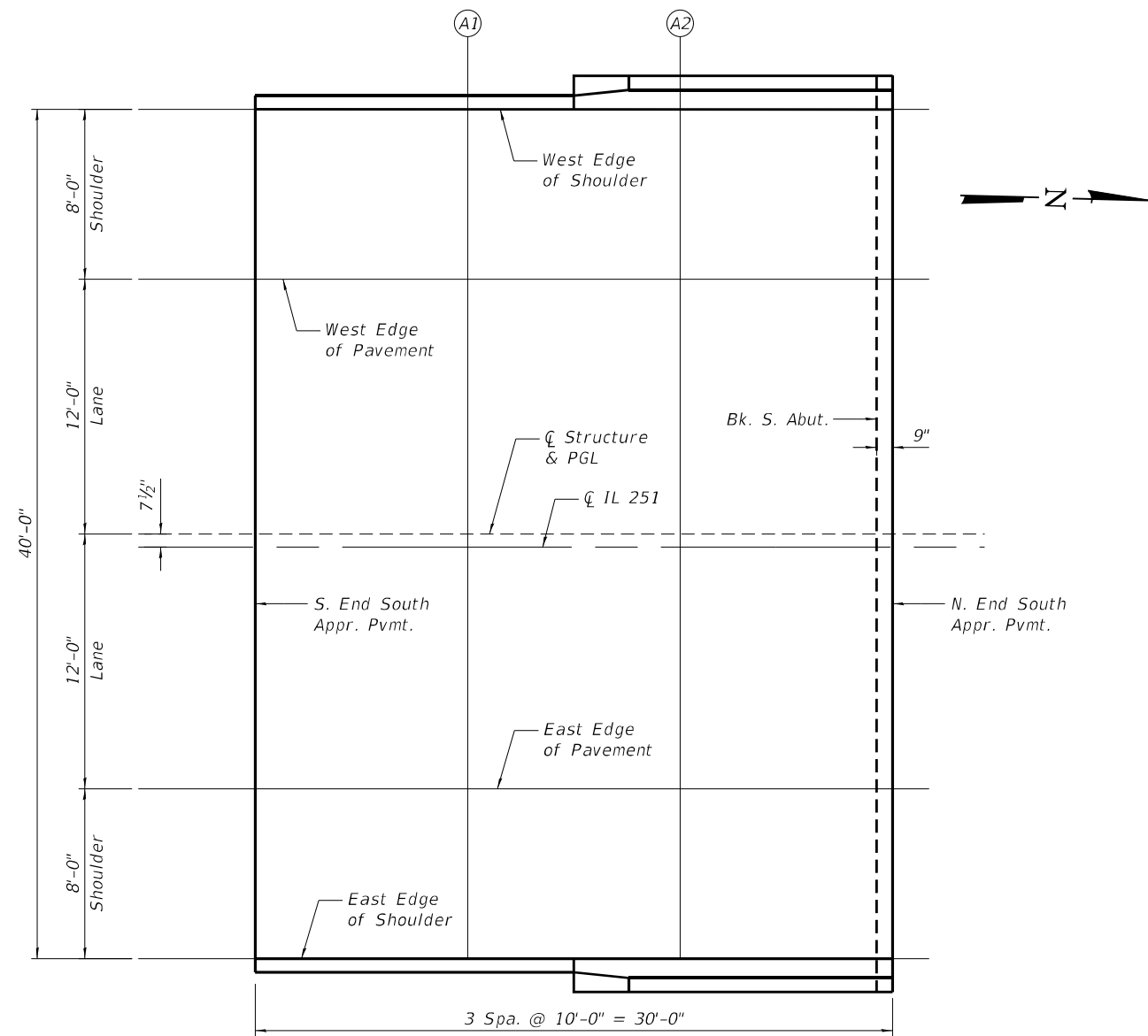
Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	0.63	792.39
A1	777+95.82	0.63	792.67
A2	778+05.82	0.63	792.92
N. End S. Appr. Pvmt.	778+15.82	0.63	793.16

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	12.00	792.22
A1	777+95.82	12.00	792.49
A2	778+05.82	12.00	792.75
N. End S. Appr. Pvmt.	778+15.82	12.00	792.99

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End S. Appr. Pvmt.	777+85.82	20.00	792.05
A1	777+95.82	20.00	792.32
A2	778+05.82	20.00	792.58
N. End S. Appr. Pvmt.	778+15.82	20.00	792.82



PLAN

FILE NAME = Z:\2018\180228 FTB18\cadd\Structural\Draw\012\500 Line Bridge\020\616-007-1\Appro-1\01.dgn

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PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 071-0001**

SHEET NO. 7 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	48
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	-20.00	793.43
A3	780+60.86	-20.00	793.24
A4	780+70.86	-20.00	793.03
N. End N. Appr. Pvmt.	780+80.86	-20.00	792.81

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	-12.00	793.59
A3	780+60.86	-12.00	793.40
A4	780+70.86	-12.00	793.20
N. End N. Appr. Pvmt.	780+80.86	-12.00	792.98

CL STRUCTURE & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	0.00	793.78
A3	780+60.86	0.00	793.59
A4	780+70.86	0.00	793.39
N. End N. Appr. Pvmt.	780+80.86	0.00	793.17

CL IL 251

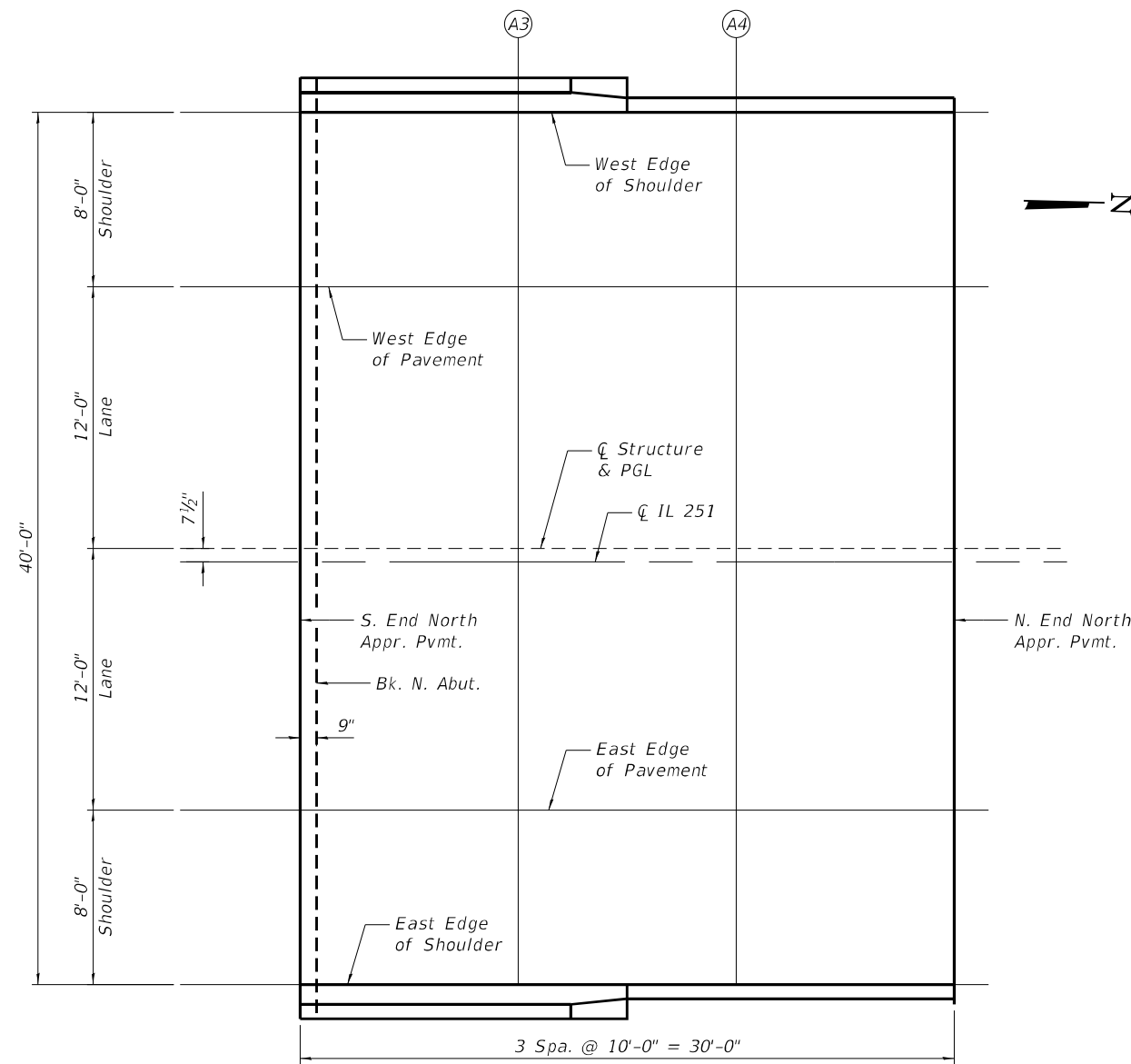
Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	0.63	793.77
A3	780+60.86	0.63	793.58
A4	780+70.86	0.63	793.38
N. End N. Appr. Pvmt.	780+80.86	0.63	793.16

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	12.00	793.59
A3	780+60.86	12.00	793.40
A4	780+70.86	12.00	793.20
N. End N. Appr. Pvmt.	780+80.86	12.00	792.98

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End N. Appr. Pvmt.	780+50.86	20.00	793.43
A3	780+60.86	20.00	793.24
A4	780+70.86	20.00	793.03
N. End N. Appr. Pvmt.	780+80.86	20.00	792.81



PLAN

FILE NAME = Z:\2018\180228_FT\BIB\cadd\Structural\Dgn\W012\500 Line Bridge\0209616-008-Approach\02.dgn

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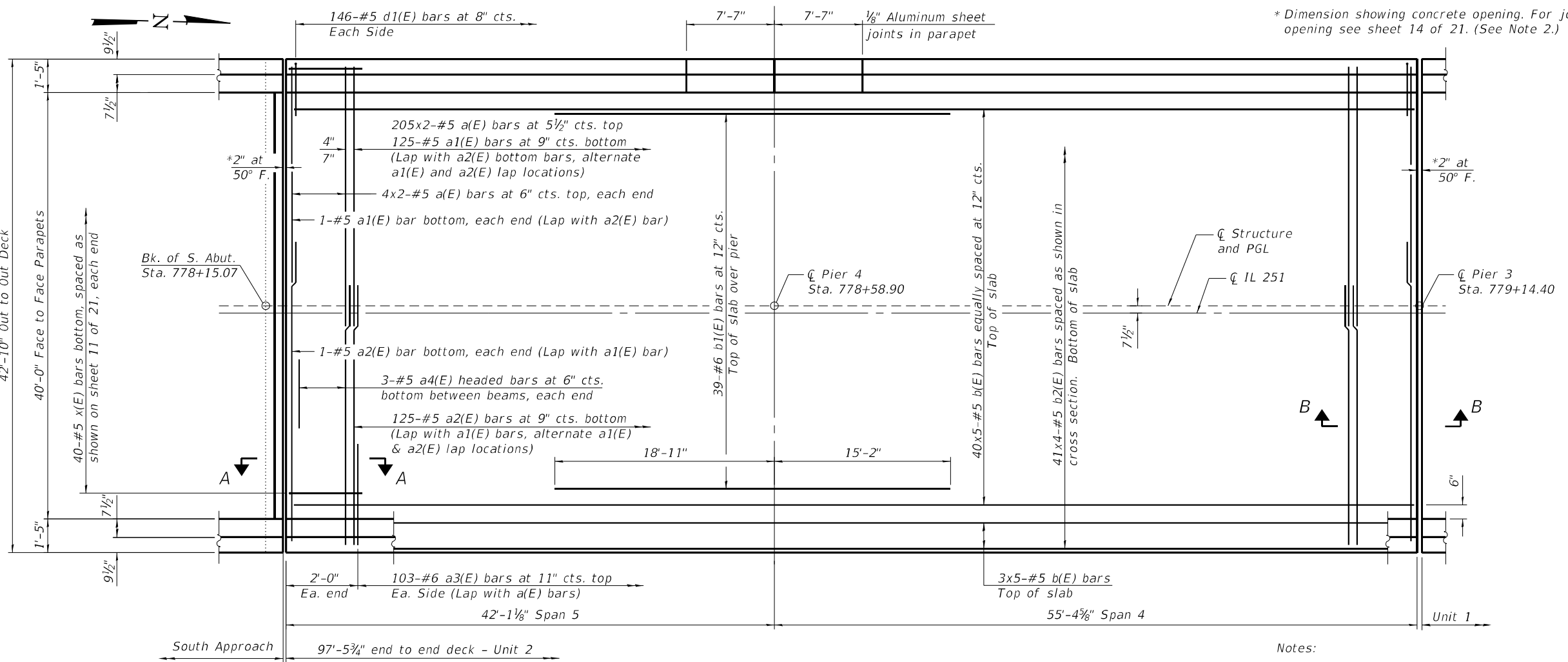
USER NAME = ctacey	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 071-0001**

SHEET NO. 8 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	49
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



* Dimension showing concrete opening. For joint opening see sheet 14 of 21. (See Note 2.)

**UNIT 2 SUPERSTRUCTURE
BILL OF MATERIAL**

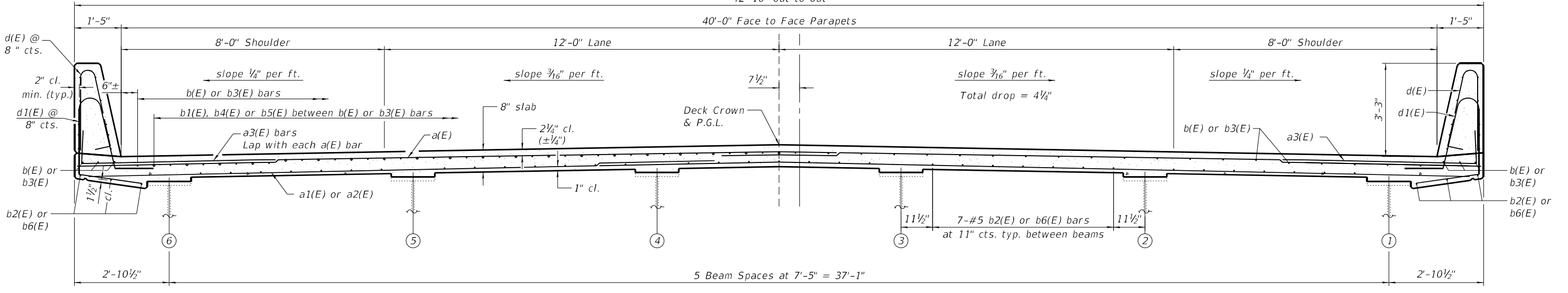
Bar	No.	Size	Length	Shape	
a(E)	418	#5	22'-9"	—	
a1(E)	127	#5	18'-6"	—	
a2(E)	127	#5	27'-8"	—	
a3(E)	206	#6	8'-4"	—	
a4(E)	30	#5	7'-2"	—	
b(E)	230	#5	22'-3"	—	
b1(E)	44	#6	34'-1"	—	
b2(E)	164	#5	26'-11"	—	
d(E)	296	#5	6'-5"	—	
d1(E)	292	#5	8'-4"	—	
e(E)	24	#4	16'-10"	—	
e2(E)	16	#4	18'-4"	—	
e3(E)	40	#4	7'-3"	—	
e5(E)	36	#4	15'-6"	—	
e7(E)	16	#4	25'-1"	—	
x(E)	80	#5	6'-6"	—	
Reinforcement Bars, Epoxy Coated				Pound	37,390
Concrete Superstructure				Cu. Yds.	143.6
Bridge Deck Grooving				Sq. Yds.	412
Protective Coat				Sq. Yds.	523

MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN (UNIT 2)

Notes:

1. Bars indicated thus 40x5-#5 etc. indicates 40 lines of bars with 5 lengths per line.
2. Dimensions are based on Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details of Base Sheet EJ-SS at no additional cost to IDOT. See sheet 14 of 21.
3. See sheet 10 of 21 for Sections A-A and B-B.
4. See sheet 11 of 21 for additional superstructure details.



NEAR PIER

CROSS SECTION
(Looking North)

NEAR MIDSPAN

(Sheet 1 of 2)

FILE NAME = Z:\2018\180228_P1\B18\cadd\Structural\Dgn\W012\500 Line Bridge\0209\616-009-Super-01.dgn

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116 WEST MAIN STREET, SUITE 201
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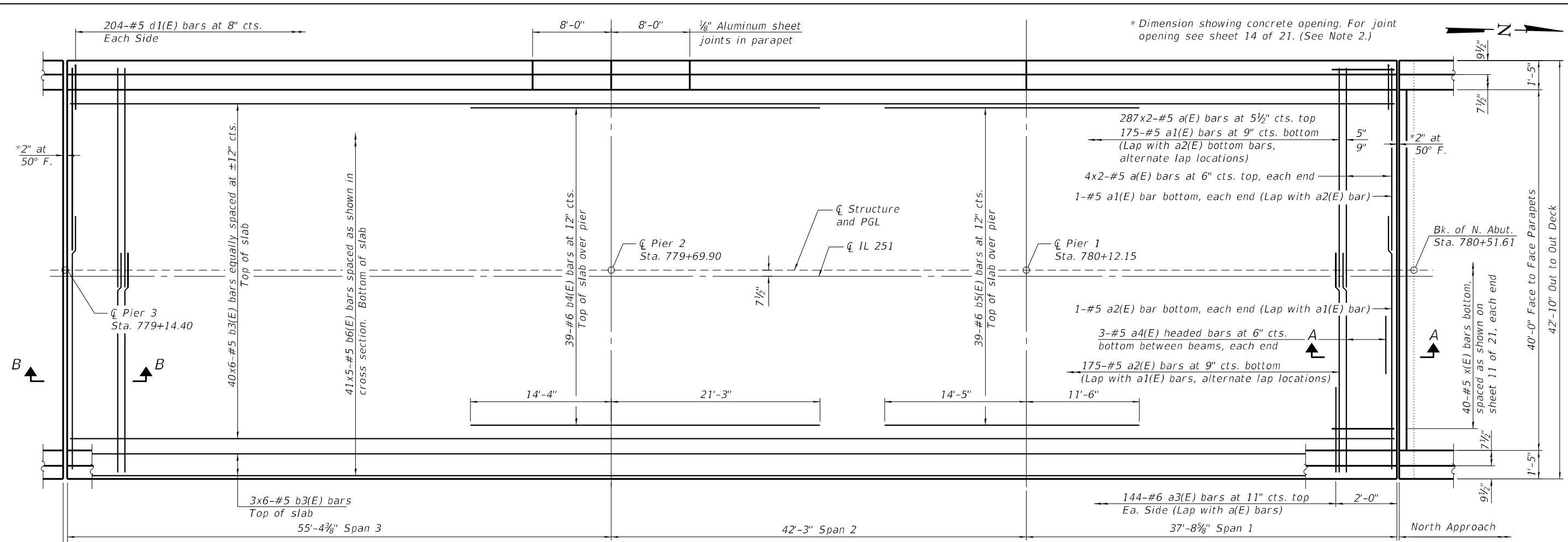
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PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

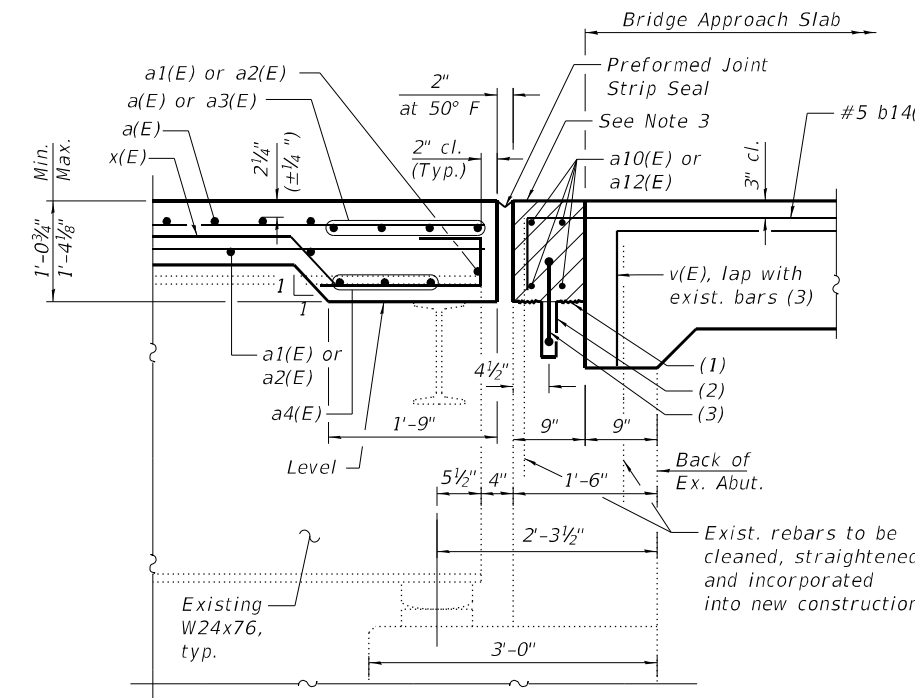
**SUPERSTRUCTURE
STRUCTURE NO. 071-0001**

SHEET NO. 9 OF 21 SHEETS

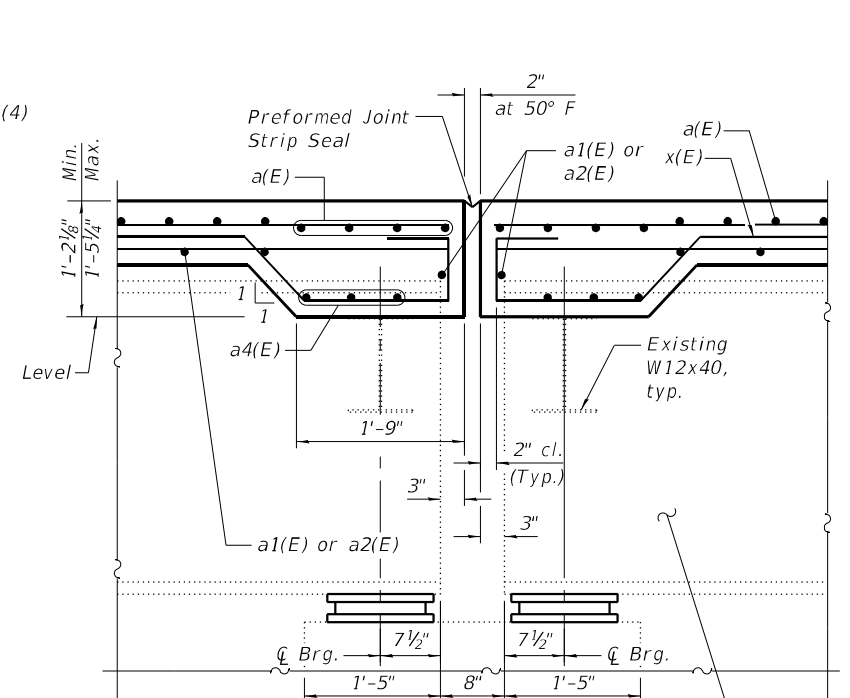
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	50
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



PARTIAL PLAN (UNIT 1)



SECTION A-A



SECTION B-B

- (1) Intentionally roughened to a full amplitude of approximately 1/4 inch.
- (2) Epoxy new Water Seal into 2" wide sawcut groove. Epoxy to meet the requirements of ASTM C881, Type III, Grade 3. Prime groove with an Epoxy meeting ASTM C881, Type III, Grade 1.
- (3) 6" Hollow bulb type nonmetallic water seal.
- (4) See Sheet 13 of 21 for bar details and quantities.

MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:

1. Bars indicated thus 40x6-#5 etc. indicates 40 lines of bars with 6 lengths per line.
2. Dimensions are based on Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details of Base Sheet EJ-SS at no additional cost to IDOT. See sheet 14 of 21.
3. Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
4. See sheet 11 of 21 for additional superstructure details.

UNIT 1 SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	582	#5	22'-9"	—
a1(E)	177	#5	18'-6"	—
a2(E)	177	#5	27'-8"	—
a3(E)	288	#6	8'-4"	—
a4(E)	30	#5	7'-2"	—
b3(E)	276	#5	25'-6"	—
b4(E)	44	#6	35'-7"	—
b5(E)	44	#6	25'-11"	—
b6(E)	205	#5	29'-10"	—
d(E)	412	#5	5'-7"	⏏
d1(E)	408	#5	7'-9"	⏏
e(E)	24	#4	16'-10"	—
e1(E)	24	#4	18'-6"	—
e2(E)	16	#4	18'-4"	—
e5(E)	36	#4	15'-6"	—
e7(E)	16	#4	25'-1"	—
e8(E)	40	#4	7'-10"	—
e12(E)	16	#4	19'-11"	—
x(E)	80	#5	6'-6"	⏏
Reinforcement Bars, Epoxy Coated	Pound		52,020	
Concrete Superstructure	Cu. Yds.		197.0	
Bridge Deck Grooving	Sq. Yds.		572	
Protective Coat	Sq. Yds.		725	

(Sheet 2 of 2)



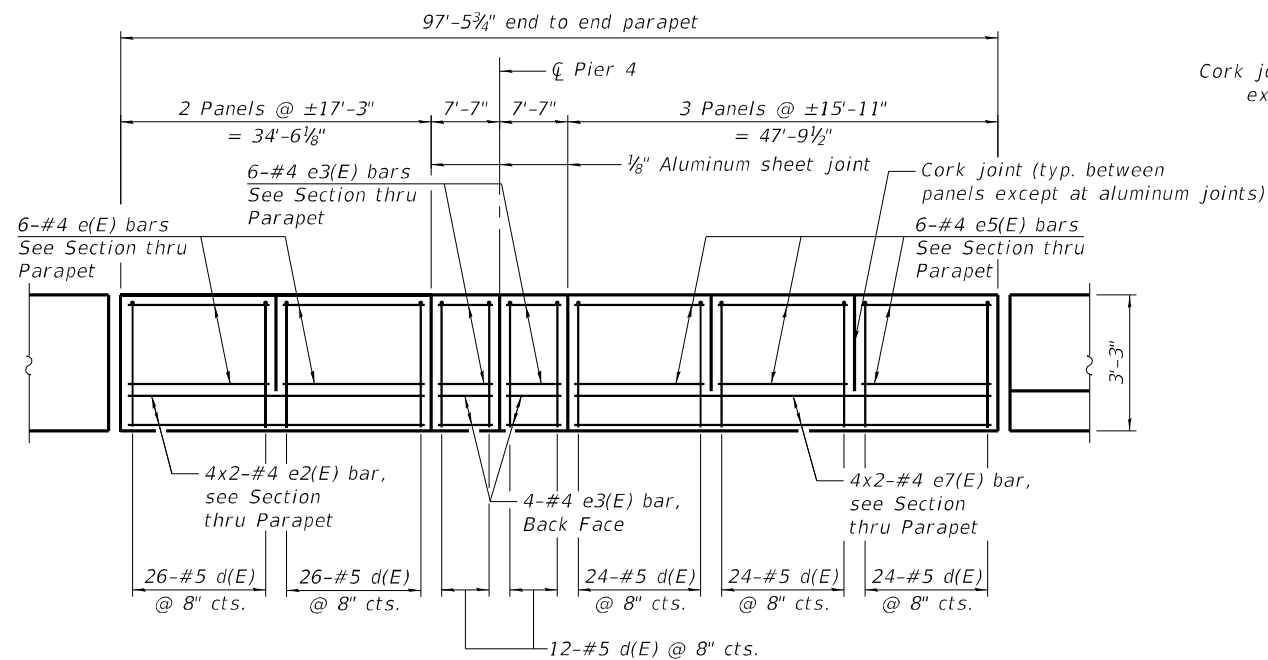
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PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

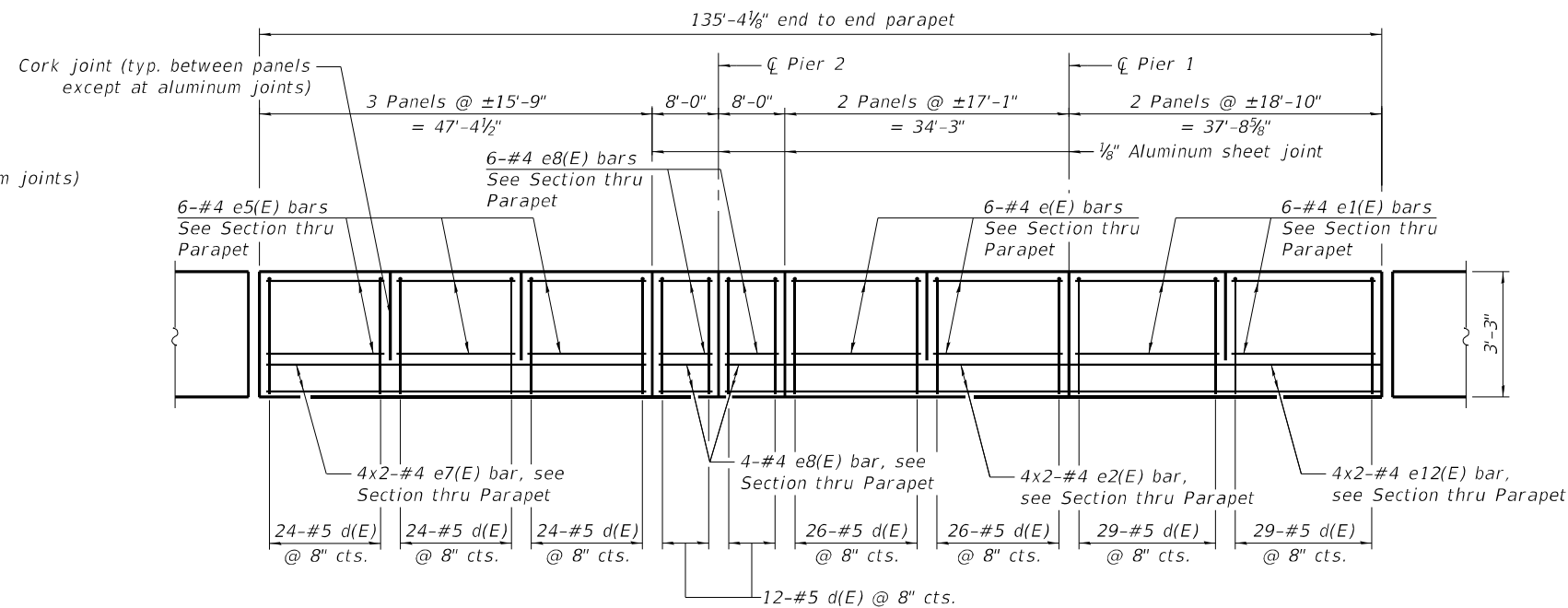
SUPERSTRUCTURE
STRUCTURE NO. 071-0001

SHEET NO. 10 OF 21 SHEETS

F.A.S. RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 51
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

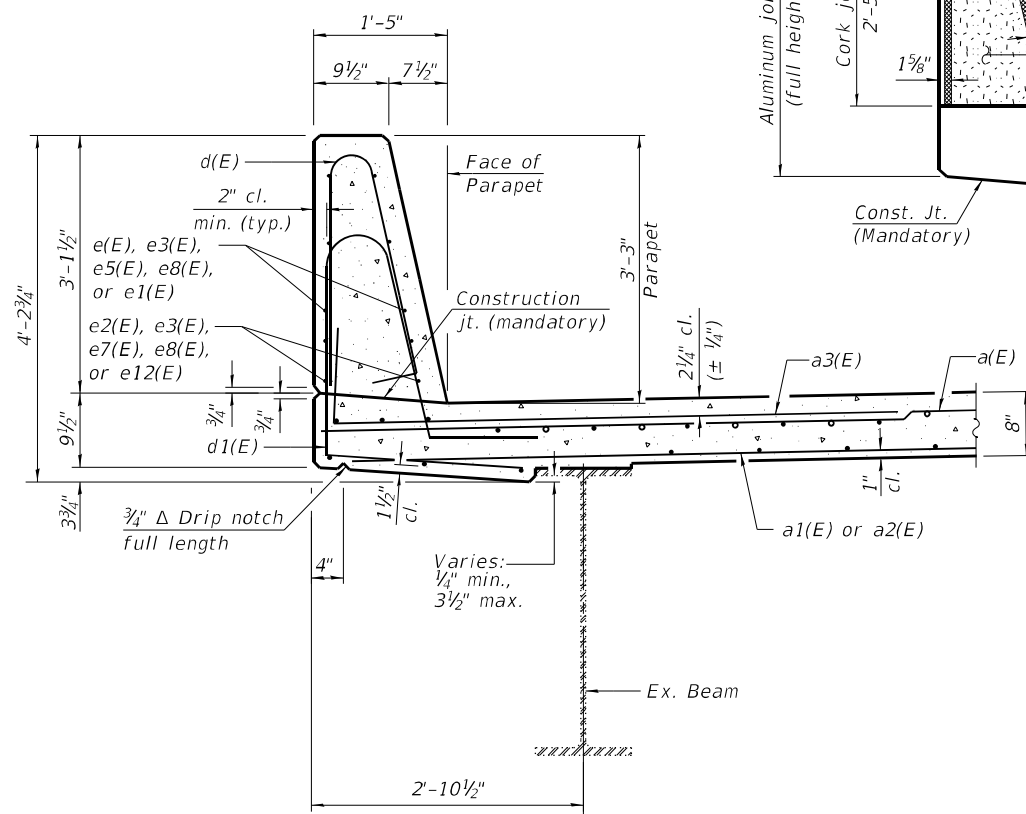


UNIT 2 - INSIDE ELEVATION OF PARAPET
(Looking East)

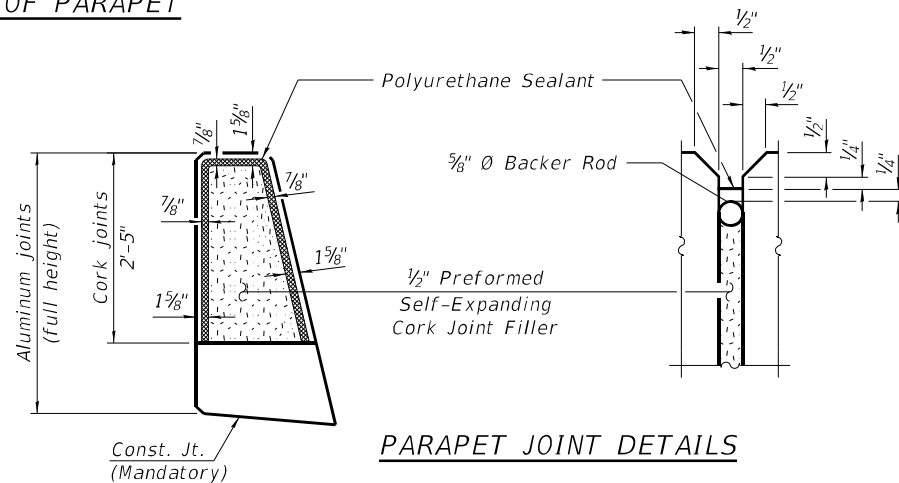


UNIT 1 - INSIDE ELEVATION OF PARAPET
(Looking East)

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-5"



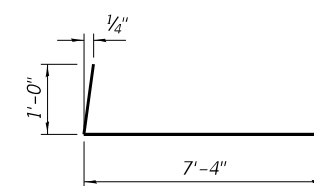
SECTION THRU PARAPET



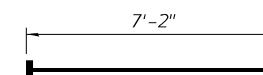
PARAPET JOINT DETAILS

Notes:

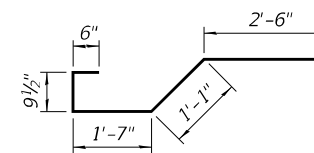
1. Bars indicated thus 1x2-#4 etc. indicates 1 line of bars with 2 lengths per line.
2. The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
3. Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
4. See sheet 10 of 21 for Unit 1 and 9 of 21 for Unit 2 Bill of Material.
5. The 1/8\"/>



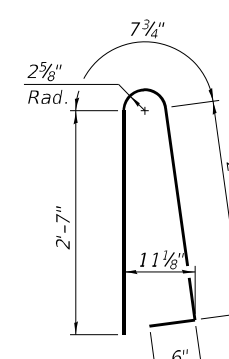
BAR a3(E)



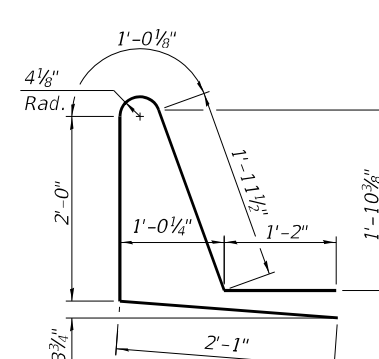
BAR a4(E)
(Headed)



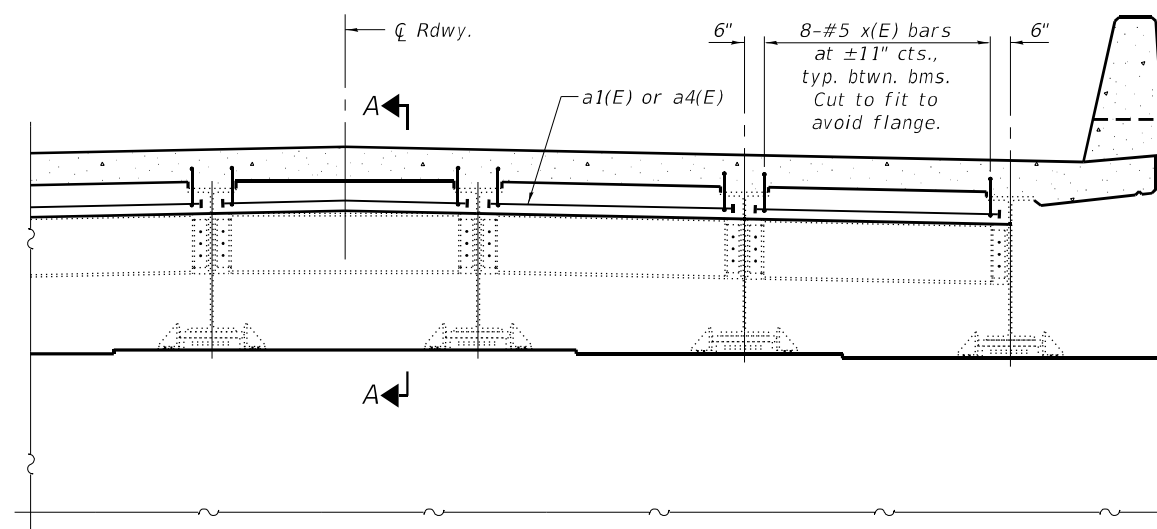
BAR x(E)



BAR d(E)

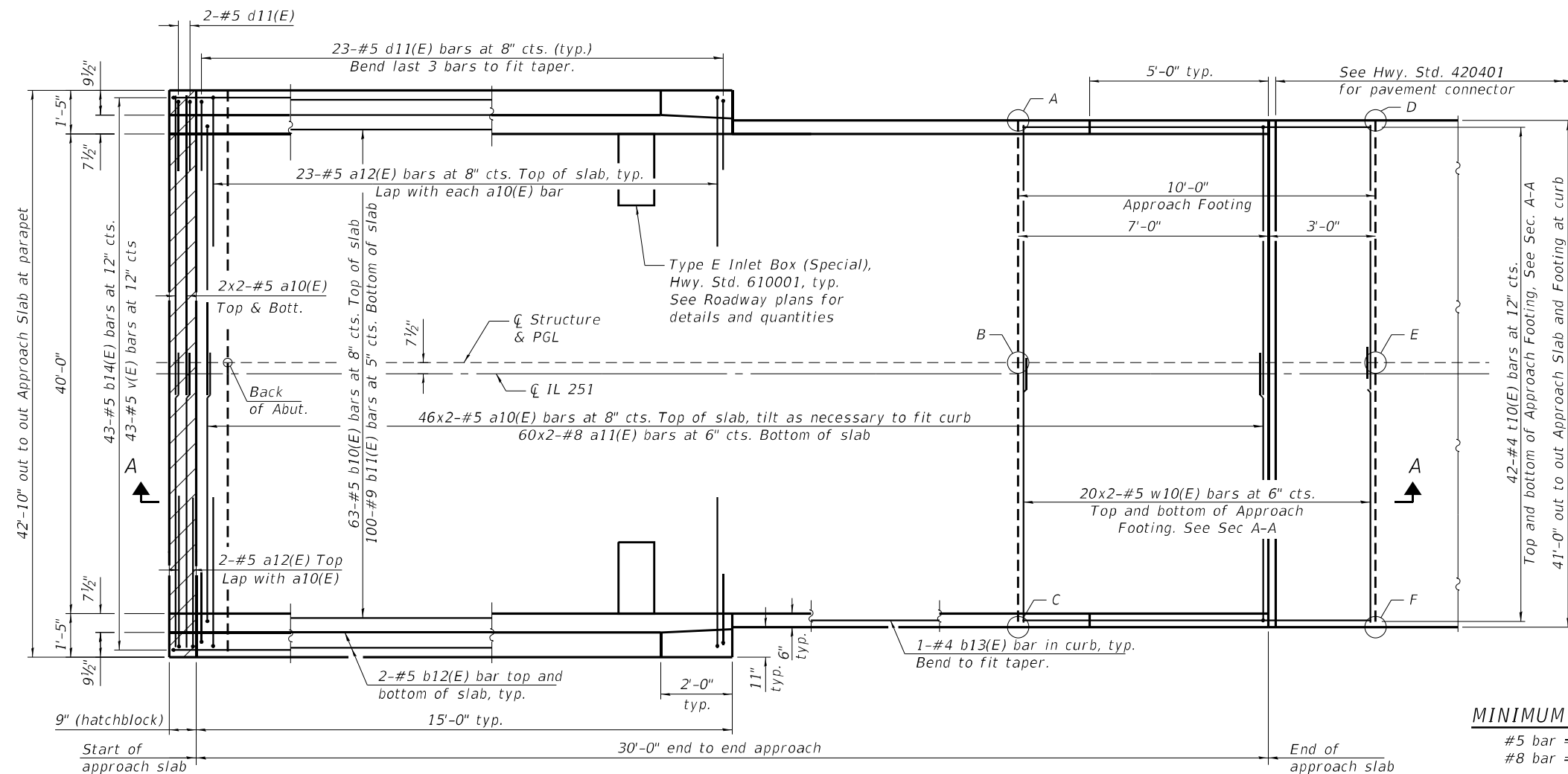


BAR d1(E)



DIAPHRAGM AT ABUTMENT

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TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	791.70	790.87	790.70	789.86
B	792.07	791.24	791.07	790.24
C	791.70	790.87	790.70	789.86
D	791.47	790.64	790.97	790.14
E	791.85	791.01	791.35	790.51
F	791.47	790.64	790.97	790.14

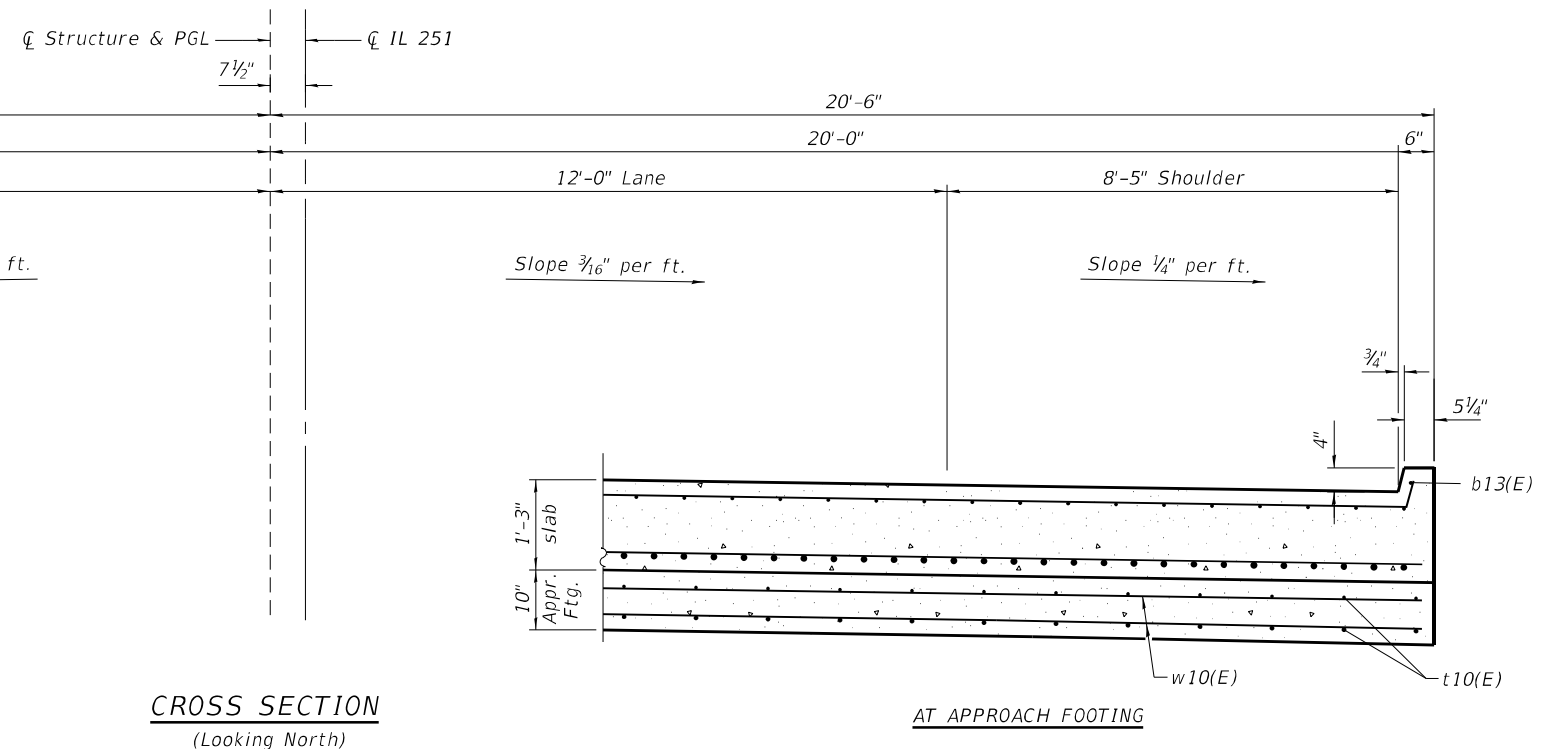
MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"

Note:

See sheet 13 of 21 for Section A-A, reinforcement bar details and bill of material.

PLAN
North approach slab shown,
South approach slab similar

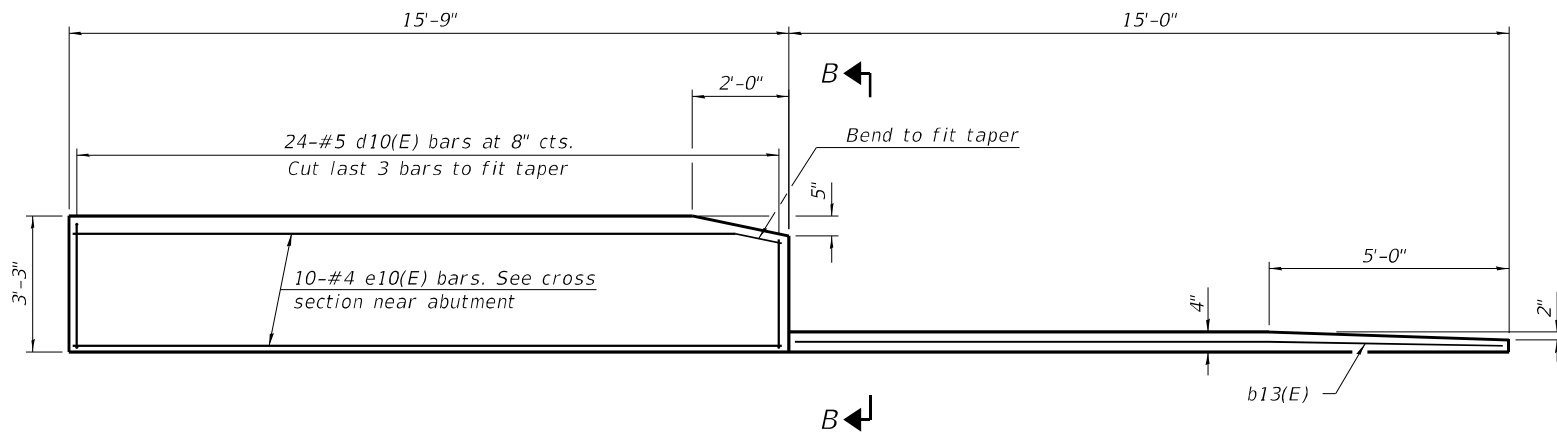


CROSS SECTION
(Looking North)

AT APPROACH FOOTING

(Sheet 1 of 2)

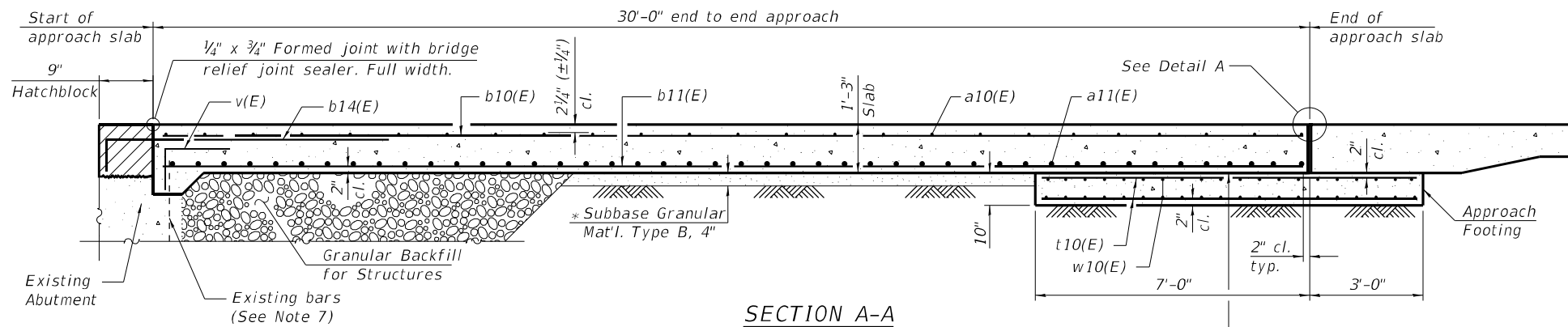
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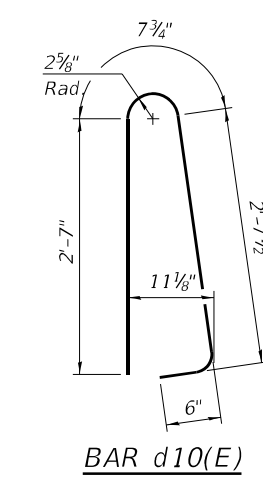
INSIDE ELEVATION OF PARAPET AND CURB

Notes:

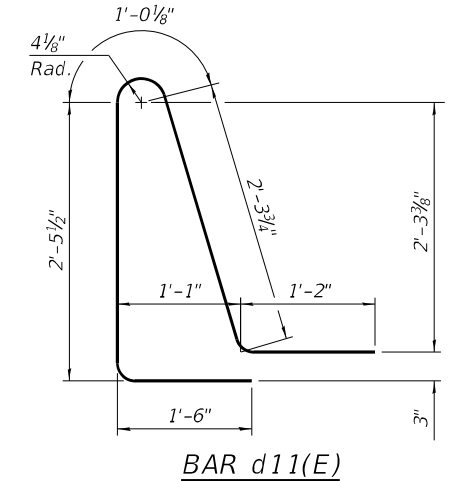
1. Parapet concrete shall be paid for as Concrete Superstructure.
2. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
3. Approach footing concrete shall be paid for as Concrete Structures.
4. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
5. Cost of excavation for approach footing included with Concrete Structures.
6. For Granular Backfill of Structures and drainage treatment details, see sheet 2 of 21.
7. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. See sheet 2 of 21.
8. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. The length of bridge used to calculate the adjustment shall be equal to the distance to the nearest expansion joint.



SECTION A-A



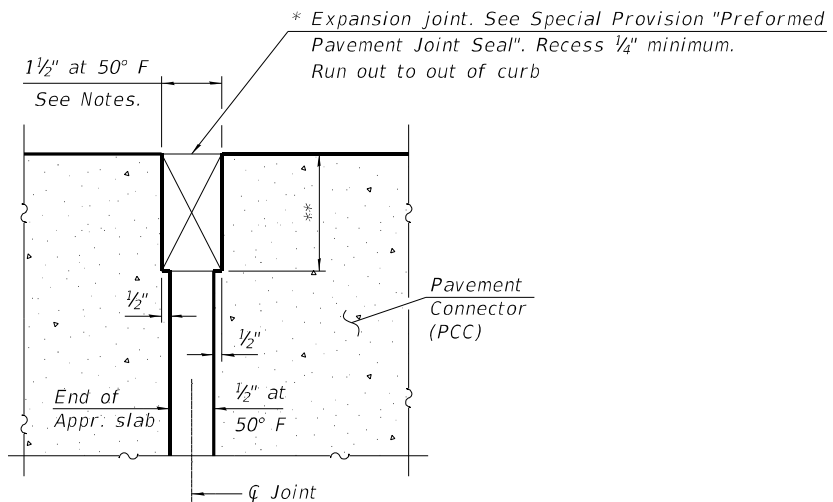
BAR d10(E)



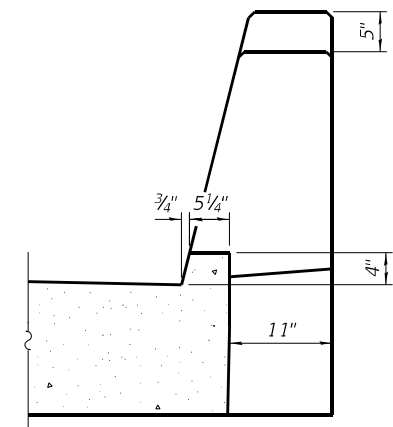
BAR d11(E)

TWO APPROACHES
BILL OF MATERIAL

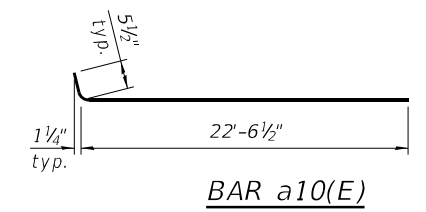
Bar	No.	Size	Length	Shape
a10(E)	200	#5	23'-0"	U
a11(E)	240	#8	23'-2"	U
a12(E)	108	#5	7'-4"	U
b10(E)	126	#5	29'-8"	U
b11(E)	200	#9	29'-8"	U
b12(E)	16	#5	14'-8"	U
b13(E)	4	#4	14'-8"	U
b14(E)	86	#5	11'-4"	U
d10(E)	108	#5	6'-5"	L
d11(E)	108	#5	8'-6"	L
e10(E)	40	#4	15'-5"	U
t10(E)	168	#4	9'-8"	U
v(E)	86	#5	3'-0"	U
w10(E)	160	#5	22'-3"	U
Concrete Superstructure		Cu. Yd.	7.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	119.4	
Concrete Structures		Cu. Yd.	25.9	
Reinforcement Bars, Epoxy Coated		Pound	53,000	
Bridge Deck Grooving		Sq. Yd.	253	
Protective Coat		Sq. Yd.	300	



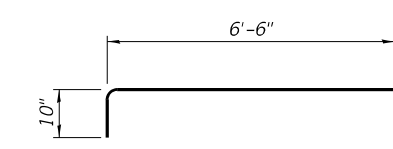
DETAIL A



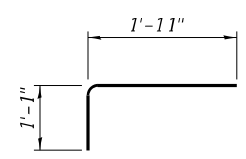
VIEW B-B



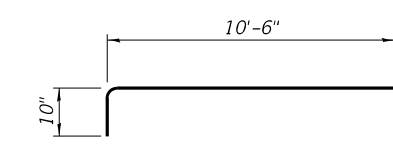
BAR a10(E)



BAR a12(E)



BAR v(E)



BAR b14(E)

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

FILE NAME = Z:\2018\180228 FT1B18\cadd\Structural\Drawings\02091616-013-Approach.dgn

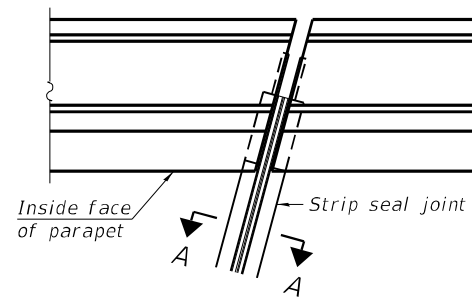
WBK ENGINEERING
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey	DESIGNED - CPT	REVISIONS -
PLOT SCALE =	CHECKED - JZ	REVISIONS -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISIONS -
	CHECKED - JZ	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

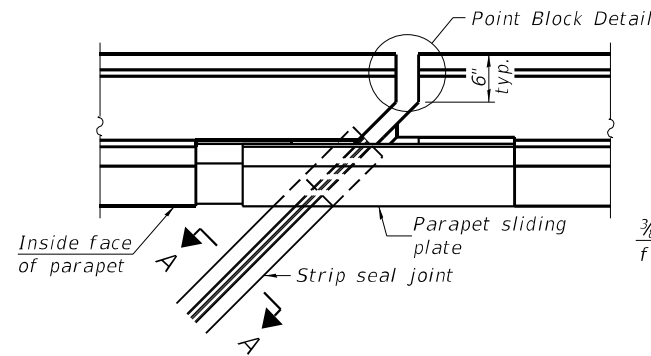
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 071-0001
SHEET NO. 13 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	54
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

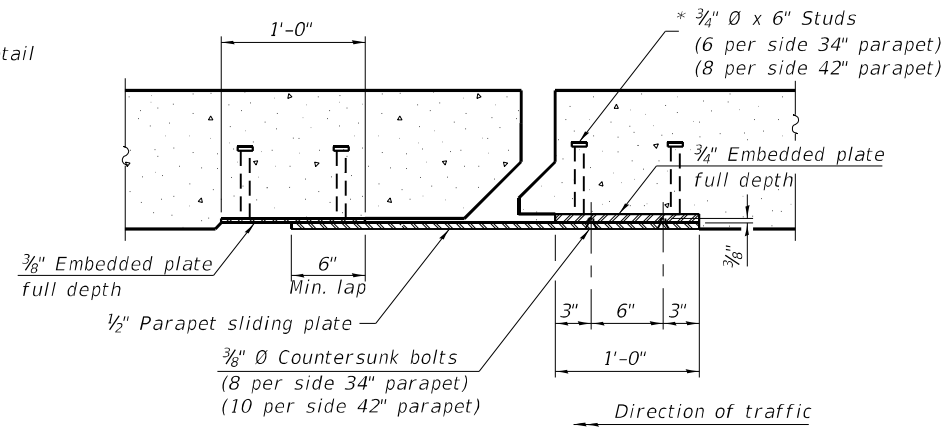


FOR SKEWS $\leq 30^\circ$

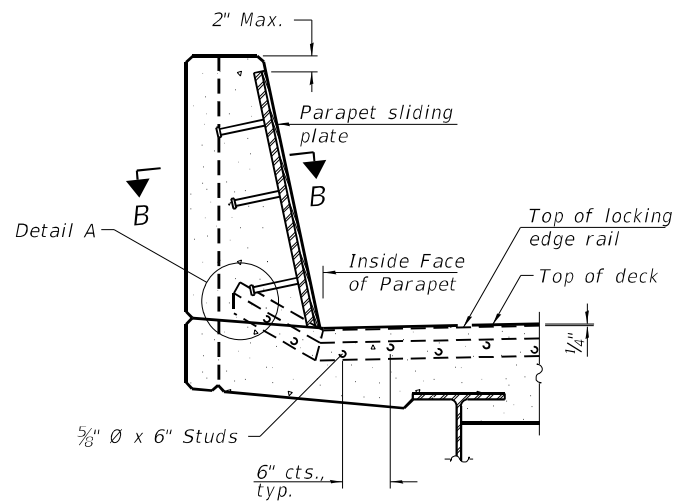
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

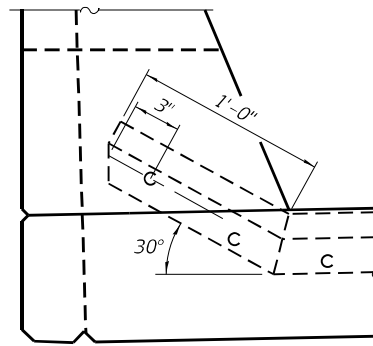


SECTION B-B

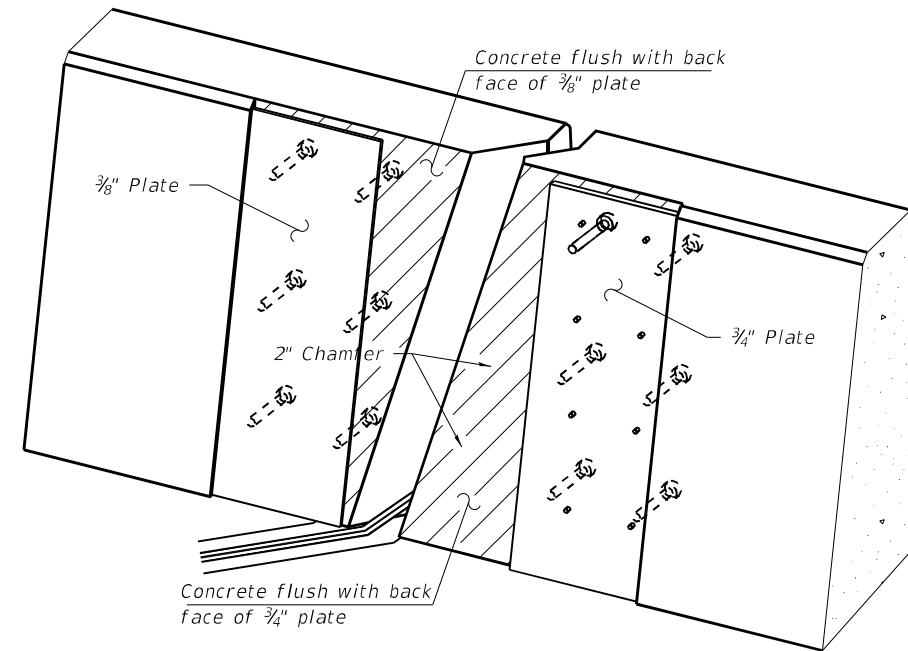


ELEVATION AT PARAPET

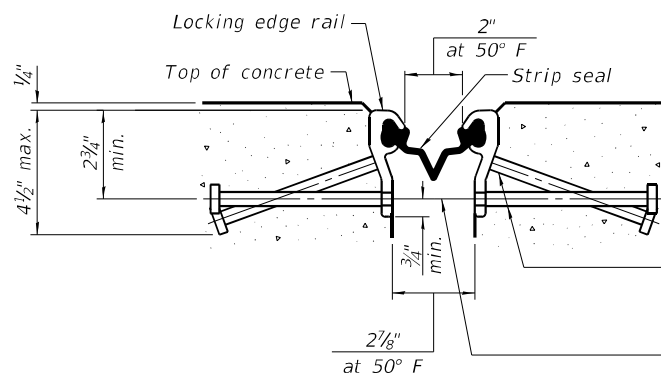
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



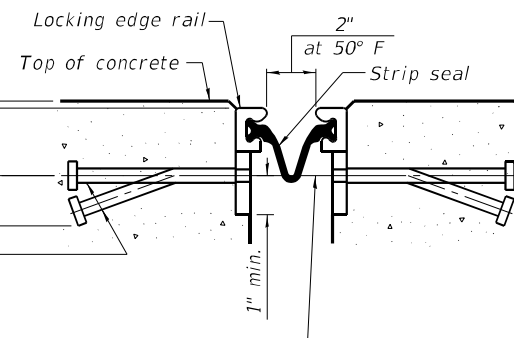
TRIMETRIC VIEW
(Showing embedded plates only)



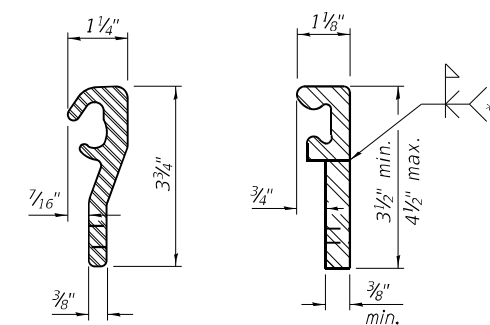
SHOWING ROLLED RAIL JOINT

* $5/8"$ ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

$3/8"$ ϕ threaded rods in $1/16"$ ϕ holes at $\pm 4"$ -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



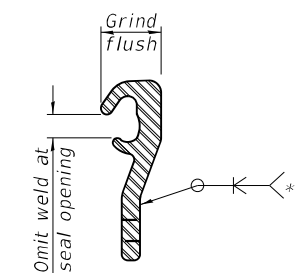
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	126

FILE NAME = Z:\2018\180228 FTB189\cadd\Structural\Dgn\W012\500 Line Bridge\02091616-014-Exp1-101.dwg

EJ-SS

8-11-17



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
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USER NAME = ctacey	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

DESIGNED - CPT	REVISED -
CHECKED - JZ	REVISED -
DRAWN - CPT	REVISED -
CHECKED - JZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 071-0001

SHEET NO. 14 OF 21 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	55
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

INTERIOR GIRDER MOMENT TABLE											
	UNIT	UNIT 1					UNIT 2				
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3	0.4 Sp. 4	Pier 4	0.6 Sp. 5		
I_s	(in ⁴)	2100	2100	2100	3330	3330	3330	3330	2100		
$I_c(n)$	(in ⁴)	7127				9960	9960		7127		
$I_c(3n)$	(in ⁴)	5505				7498	7498		5505		
S_s	(in ³)	176	176	176	276	276	276	276	176		
$S_c(n)$	(in ³)	289				417	417		289		
$S_c(3n)$	(in ³)	262				380	380		262		
Z	(in ³)	200	200	200	309	309	309	309	200		
ρ	(k/')	0.84	1.18	1.18	1.22	0.88	0.88	1.22	0.84		
$M\rho$	(k')	100.3	-111.1	17.5	-250.2	223.9	215	-270.1	74.9		
$s\rho$	(k/')	0.34				0.34	0.34		0.34		
$M_s\rho$	(k')	38.6				88.3	84.2		33.3		
LLDF		1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35		
M_t	(k)	241.0	-162.9	180.1	-191.6	416.2	412.8	-178.8	263.4		
MIM	(k)	72.3	-48.9	53.8	-55.2	115.9	115.0	-51.7	79.0		
$\frac{1}{3} [M_t + 1]$	(k)	522.3	-352.9	389.9	-411.4	886.8	879.7	-384.2	570.7		
Ma	(k)	859	-603	530	-860	1559	1533	-851	883		
Mu	(k)	1364			1288	2297	1881		1455		
$f_s \rho$ non-comp	(ksi)	6.8	-7.6	1.2	-10.9	9.7	9.3	-11.7	5.1		
$f_s \rho$ (comp)	(ksi)	1.8				2.8	2.7		1.5		
$f_s \frac{1}{3} [M_t + M_1]$	(ksi)	21.7	-24.1	26.6	-17.9	25.5	25.3	-16.7	23.7		
f_s (Overload)	(ksi)	30.3	-31.7	27.8	-28.8	38.0	37.3	-28.4	30.3		
f_s (Total)	(ksi)		-41.2	36.1				-36.9			
VR	(k)	N. Abut.	Pier 1	Pier 2	Pier 3	Pier 3	Pier 4	S. Abut.			
		54.7	52.6	59.5	54.7	56.5	57.7	58.7	55.5	52.1	59.5

INTERIOR GIRDER REACTION TABLE								
	N. Abut.	Pier 1	Pier 2	Pier 3 N.	Pier 3 S.	Pier 4	S. Abut.	
LLDF	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
$R\rho$	(k)	19.53	48.45	71.52	28.84	28.23	75.78	17.36
R_t	(k)	38.01	46.22	47.15	42.49	42.65	43.03	39.41
R_1	(k)	11.40	13.87	13.59	11.83	11.88	12.43	11.82
R_{Total}	(k)	68.94	108.54	132.26	83.16	82.76	131.24	68.59

* Compact section

** Braced non-compact and partially braced section

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).

Z : Plastic Section Modulus of the steel section in non-composite areas (in³).

ρ : Un-factored non-composite dead load (kips/ft.).

$M\rho$: Un-factored moment due to non-composite dead load (kip-ft.).

$s\rho$: Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s\rho$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_t : Un-factored live load moment (kip-ft.).

M1: Un-factored moment due to impact (kip-ft.).

Ma: Factored design moment (kip-ft.).

$1.3 [M\rho + M_s\rho + \frac{1}{3} (M_t + M1)]$

Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

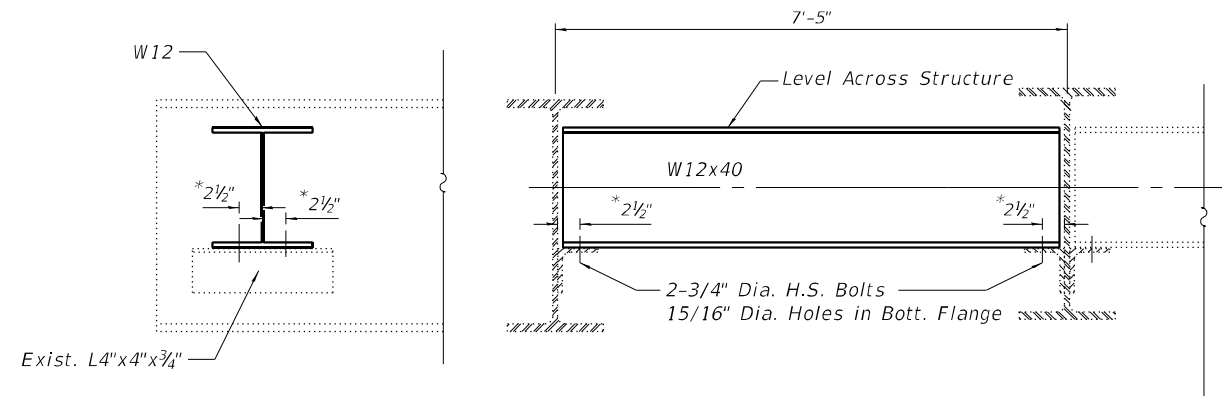
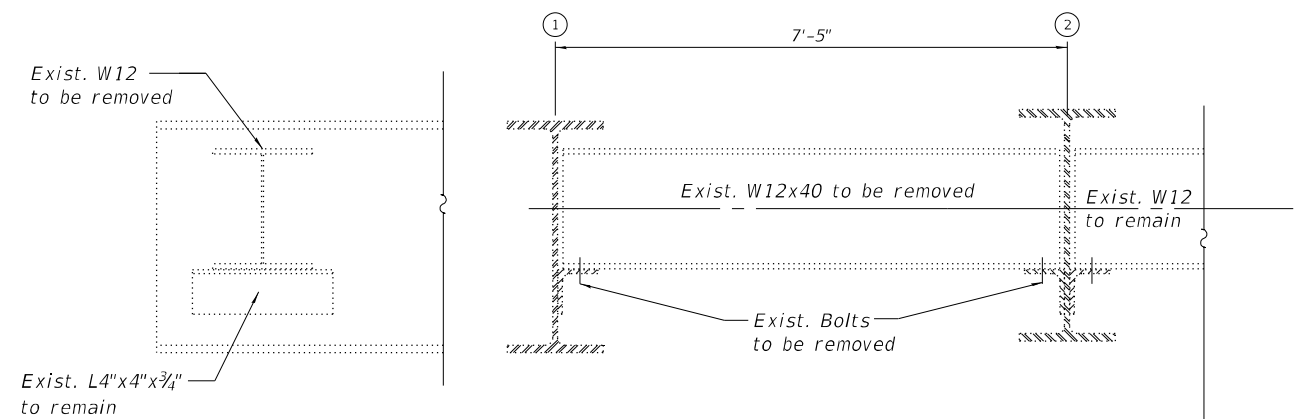
f_s (Overload): Sum of stresses as computed from the moments below (ksi).

$M\rho + M_s\rho + \frac{1}{3} (M_t + M1)$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).

$1.3 [M\rho + M_s\rho + \frac{1}{3} (M_t + M1)]$

VR: Maximum $t +$ impact shear range within the composite portion of the span for stud shear connector design (kips).



DIAPHRAGM REPLACEMENT

2 req'd

Note:

Two hardened washers required for each set of oversized holes.

See sheet 15 of 21 for location.

* Verify in field. Field drill holes in new diaphragm bottom flange using holes in existing angles as a template. Cost of field drilling included in Furnishing and Erecting Structural Steel.

Note:

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erectoin as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

BILL OF MATERIALS

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	587
Structural Steel Removal	Pound	587

(Sheet 2 of 2)

FILE NAME = Z:\2018\180228_FT\BIBS\Cadd\Structural\Drawings\02091616-016-Steel\011a.dgn



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116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

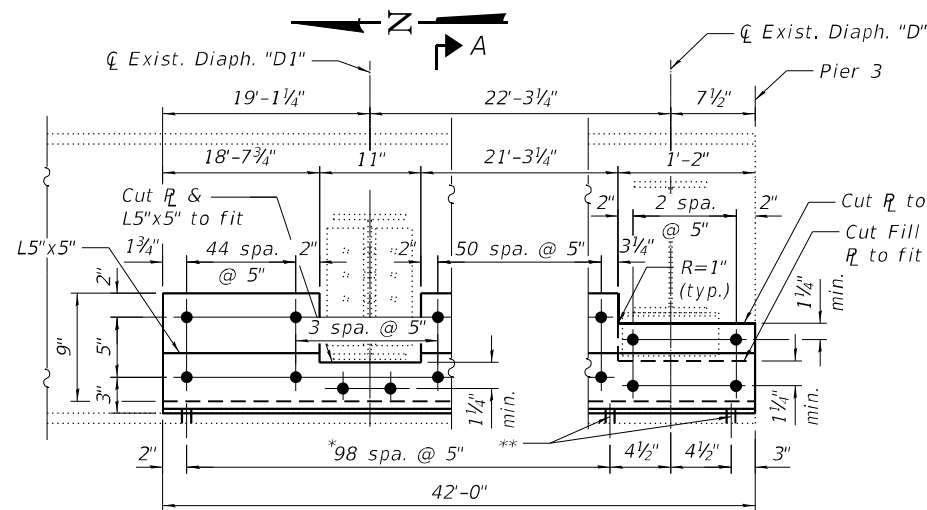
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

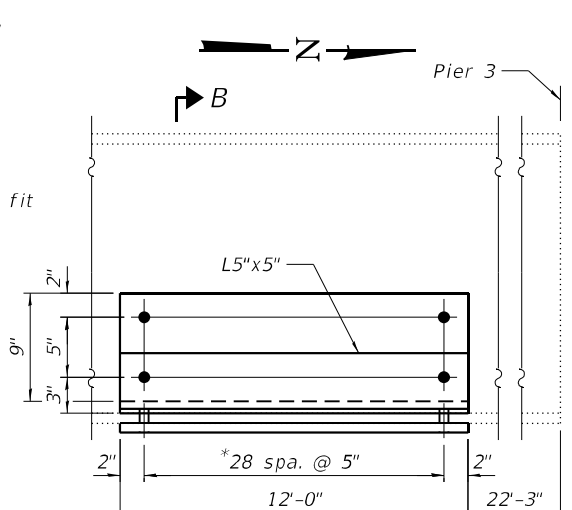
FRAMING DETAILS
STRUCTURE NO. 071-0001

SHEET NO. 16 OF 21 SHEETS

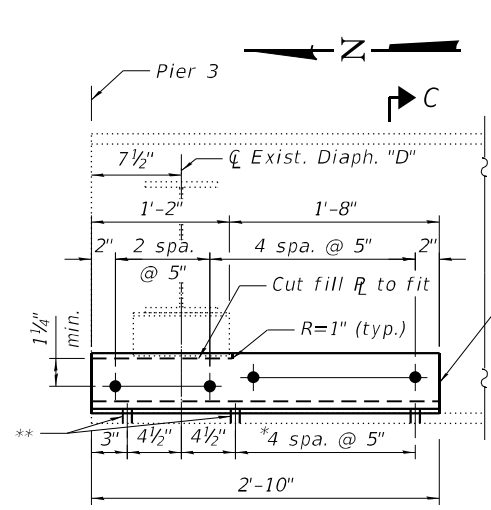
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	57
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



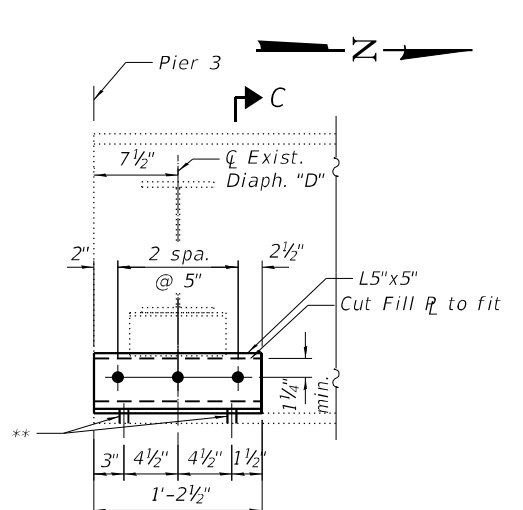
REPAIR 1
Beam 6 Span 3, West Fascia



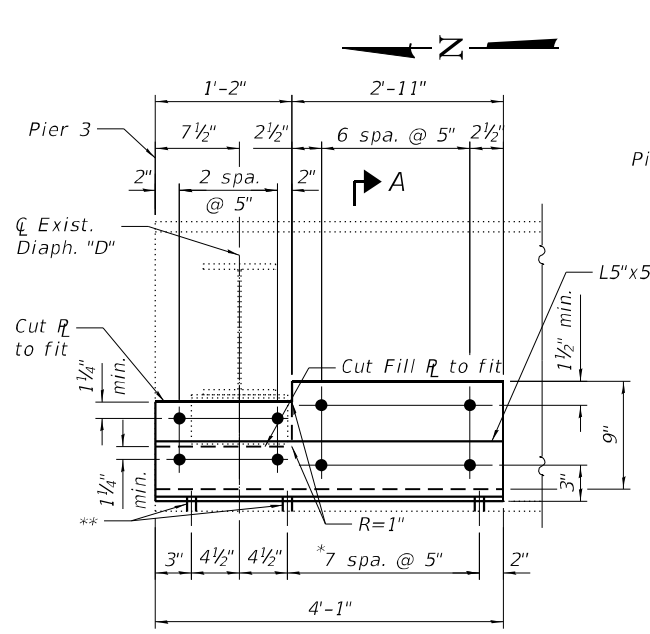
REPAIR 2
Beam 1 Span 4, East Fascia



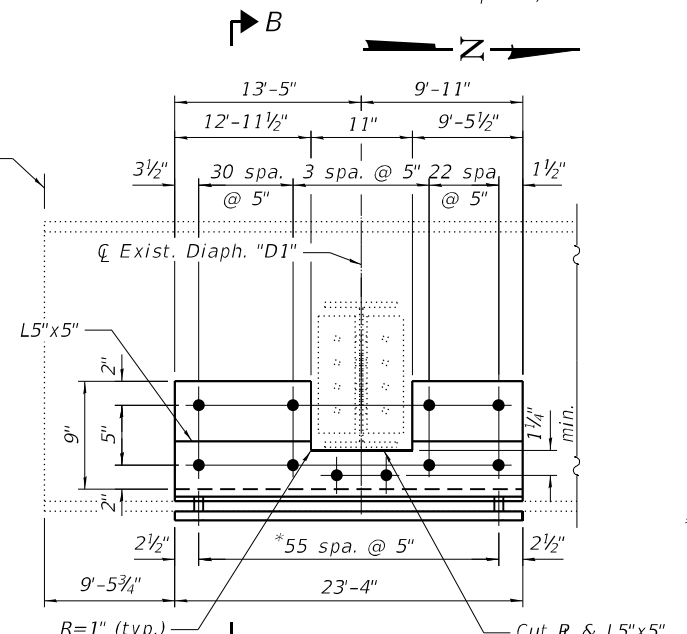
REPAIR 3
Beam 4 Span 4, West Face



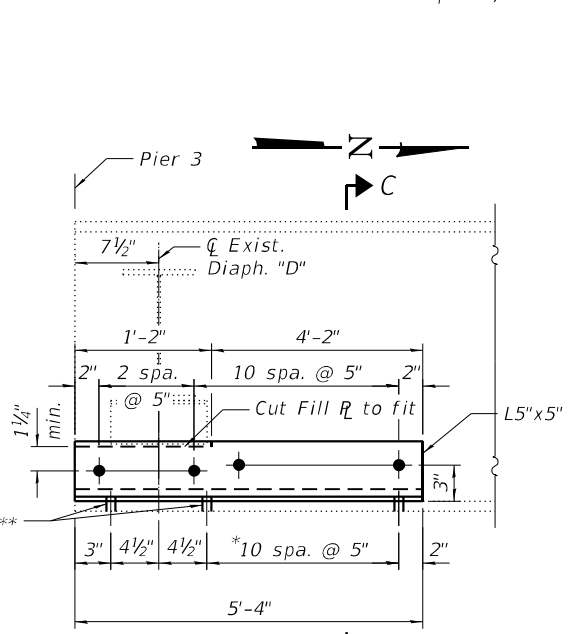
REPAIR 4
Beam 5 Span 3, East Face



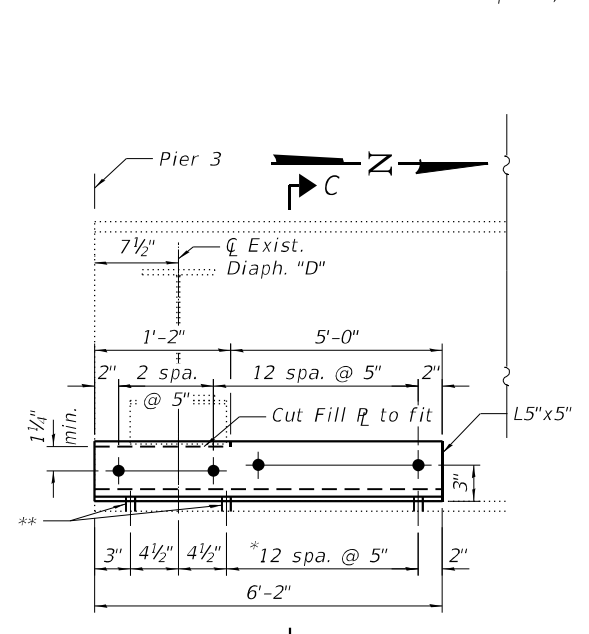
REPAIR 5
Beam 5 Span 4, West Face



REPAIR 6
Beam 1 Span 3, East Fascia



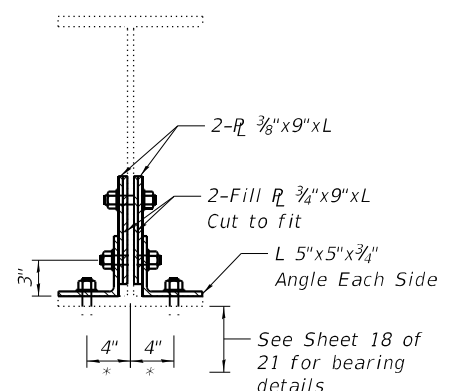
REPAIR 7
Beam 3 Span 3, East Face



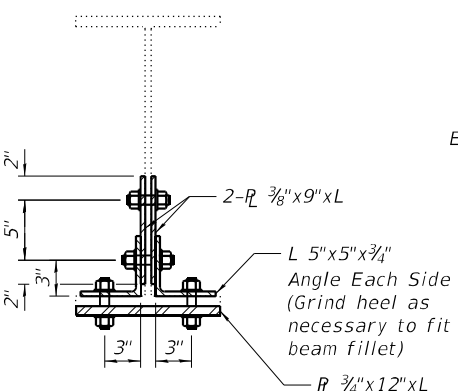
REPAIR 8
Beam 4 Span 3, East Face

Location	L
1	42'-0"
2	12'-0"
3	2'-10"
4	1'-2"
5	4'-1"
6	23'-3"
7	5'-4"
8	6'-2"

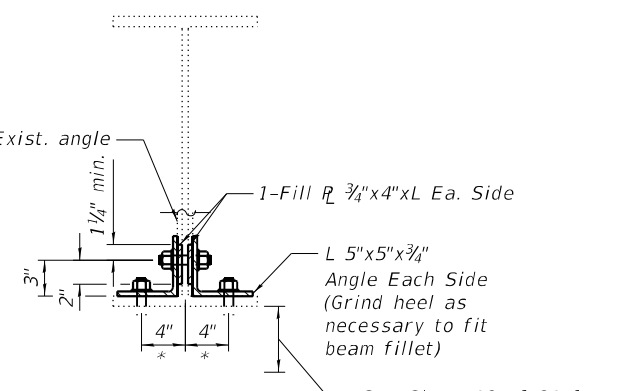
* Field drill holes in bottom flange of the existing beams. Cost included with Structural Steel Repair.
 ** 7/8" O Holes for 3/4" O studs. Coordinate with bearing details shown on sheet 18 of 21.



SECTION A-A



SECTION B-B



SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	8900

Notes:

- See Framing Plan for repair locations.
- Fasteners shall be ASTM F3125 Grade A325 Type 1, hot dip galvanized bolts 3/4" O with 7/8" O holes.
- Repair locations and details are based on the field inspection dated March 20, 2019. Field condition may have changed. The contractor shall verify in the field prior to ordering any materials.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". All contact surfaces on this sheet shall be treated as primary connections.
- Field drill holes in existing beams using holes in repair plates or bearings as a template. Cost of field drilling included with Structural Steel Repair.

FILE NAME = Z:\2018\180228_P1\B189\cadd\Structural\Dgn\W012\500_Line_Bridge\020\616\017-SteelRepair.dgn

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
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 (630) 443-7755

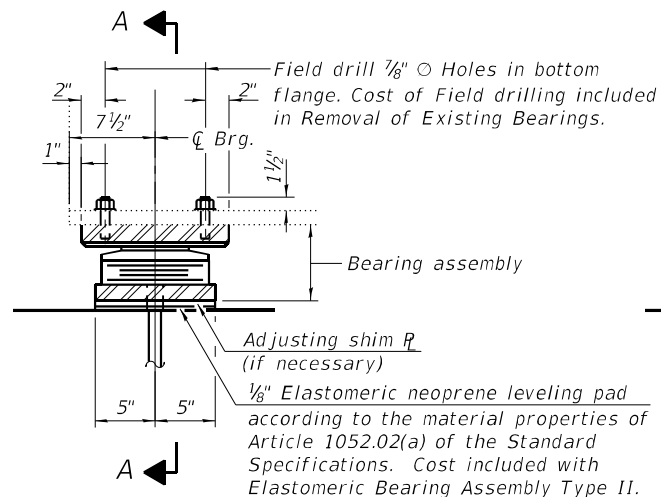
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PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

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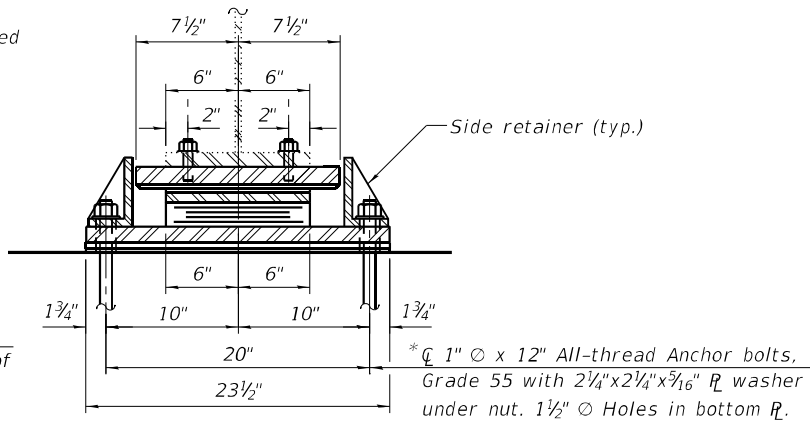
**STEEL REPAIR DETAILS
 STRUCTURE NO. 071-0001**

SHEET NO. 17 OF 21 SHEETS

F.A.S. RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 58
CONTRACT NO. 64L75				ILLINOIS FED. AID PROJECT

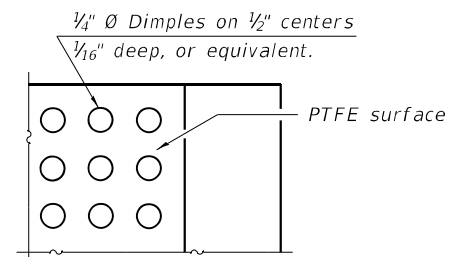


ELEVATION AT PIER 3

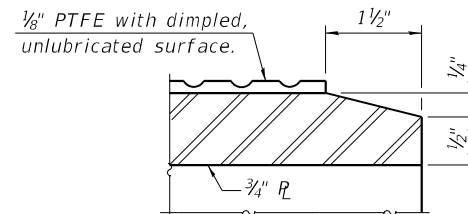


SECTION A-A

* After beams have been erected, holes at expansion bearings shall be drilled and anchor bolts be grouted in place.



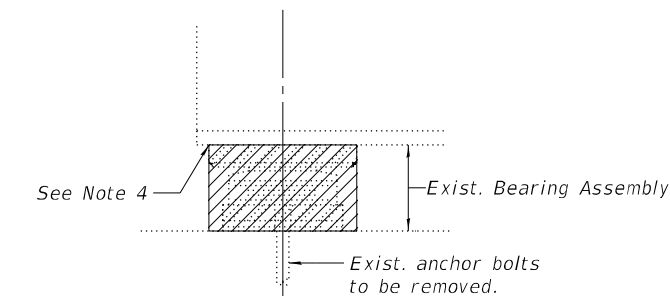
PLAN-PTFE SURFACE



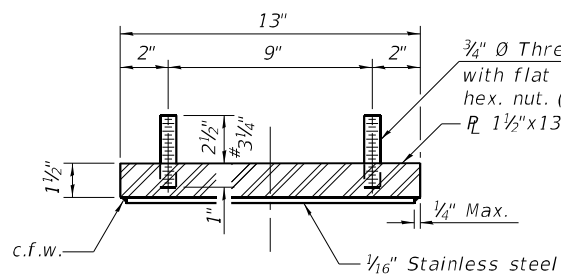
SECTION THRU PTFE

Note:

1. The total bearing height is based on the as-built plans. Prior to ordering any material, the contractor shall verify in the field dimension from the top of existing bearing seat to the bottom of bottom flange of the existing beam. Cost is included in the price bid for Elastomeric Bearing Assembly, Type II.
2. Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
3. The threaded studs, washers, and nuts shall be galvanized according to AASHTO M232.
4. Hatched area indicates bearing to be removed. Existing top bearing plate welded to the bottom flange of the existing beam shall be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange. Cost included with "Removal of Existing Bearings."

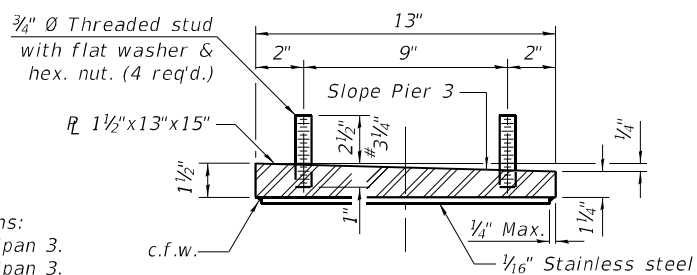


EXISTING BEARING REMOVAL DETAIL

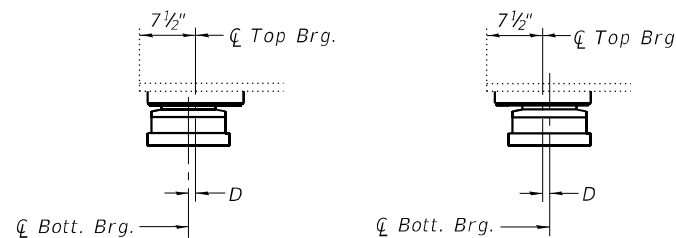


PIER 3 - SPAN 3
TOP BEARING ASSEMBLY
(6 Required)

At locations:
Beam 3, Span 3.
Beam 4, Span 3.
Beam 4, Span 4.
Beam 5, Span 3.
Beam 5, Span 4.
Beam 6, Span 3.
At these locations, there are beam repairs required at the end of flange. See Sheet 17 of 21.



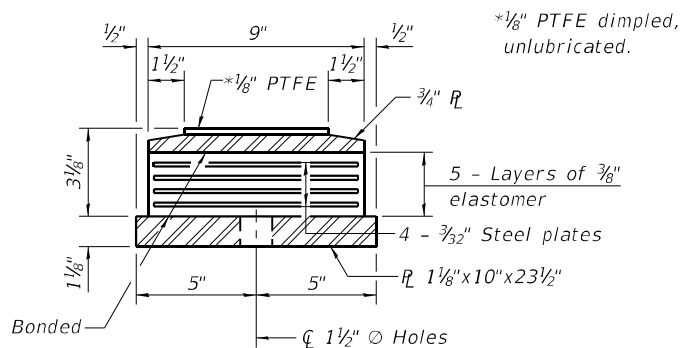
PIER 3 - SPAN 4
TOP BEARING ASSEMBLY
(6 Required)



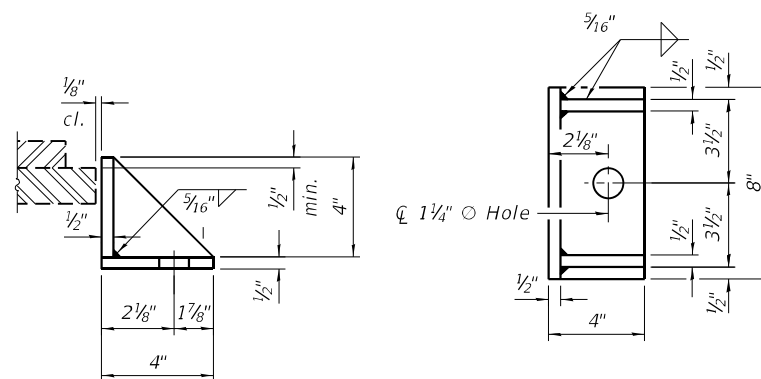
BELOW 50°F.
D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.



BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
- The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
- Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

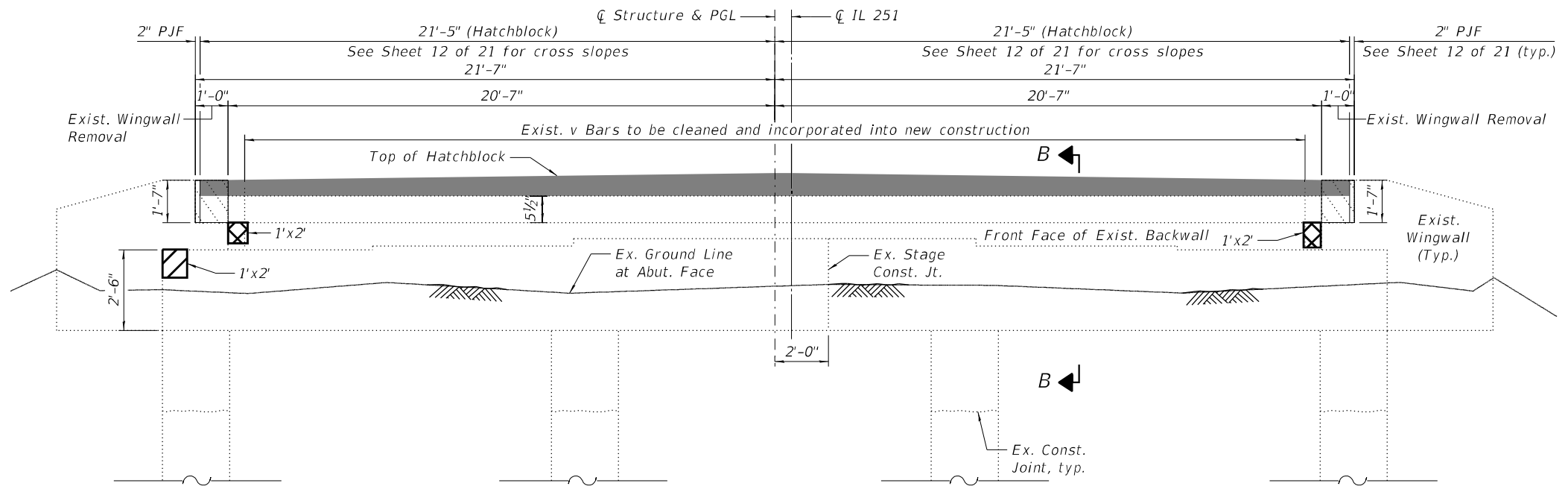
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts, 1"	Each	24
Removal of Existing Bearings	Each	12

FILE NAME = Z:\2018\180228_PTB18\cadd\Structure\1\Drawings\02018\018-Bearings.dgn

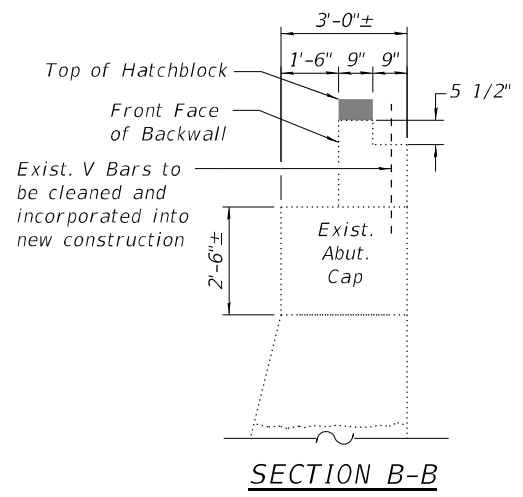
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PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	59
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				



NORTH ABUTMENT

(Looking North)
Showing partial wingwall removal and new construction



SECTION B-B

Notes:

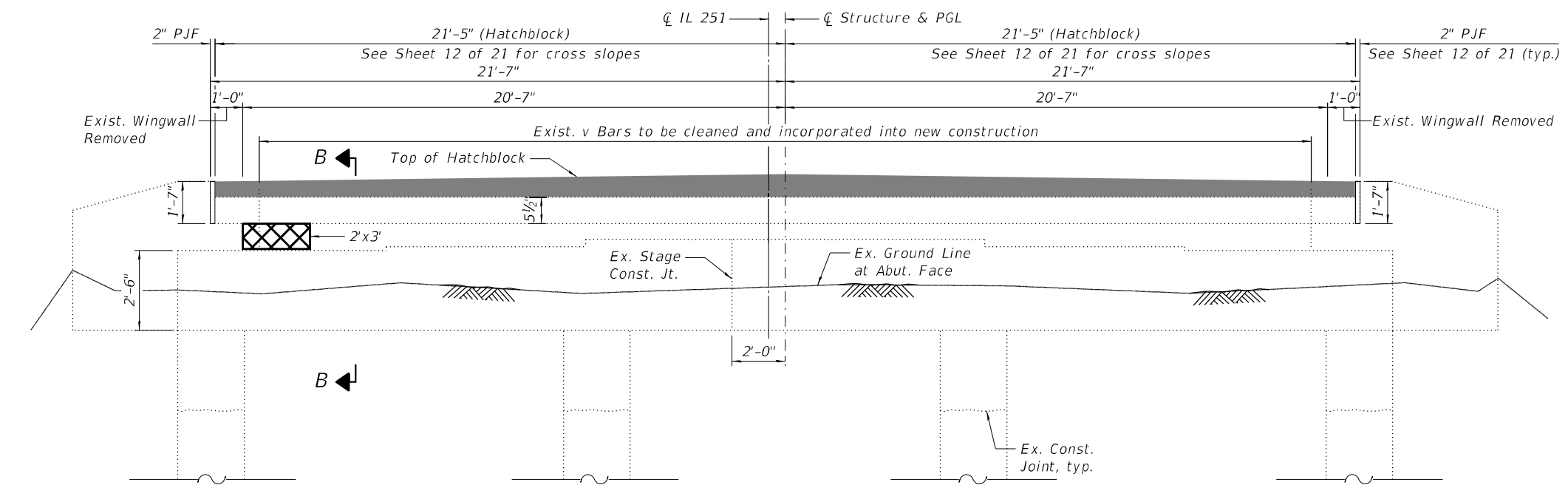
1. Dimensions shown are from existing plans and shall be field verified by Contractor as necessary to complete the work.
2. The quantities shown for repair are for estimating purposes only. The actual area to be repaired will be determined by the Engineer at the time of construction.
3. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
4. Refer to Sheet 12 of 21 for Plan View of Hatchblock.

LEGEND

- Structural Repair of Concrete (Depth ≤ 5")
- Structural Repair of Concrete (Depth > 5")
- Concrete Removal
- Hatchblock

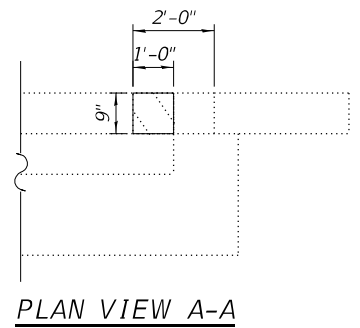
BILL OF MATERIALS

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	2
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.	10
Concrete Removal	Cu. Yd.	0.6

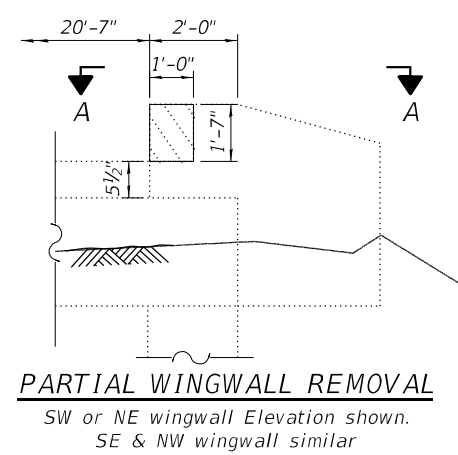


SOUTH ABUTMENT

(Looking South)
Showing new construction after partial wingwall removal



PLAN VIEW A-A



PARTIAL WINGWALL REMOVAL

SW or NE wingwall Elevation shown.
SE & NW wingwall similar

FILE NAME = Z:\2018\180228 FTBIBS\cadd\Structural\Dgn\W012\500 Line Bridge\020916\6-019-Abut.dgn

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116 WEST MAIN STREET, SUITE 201
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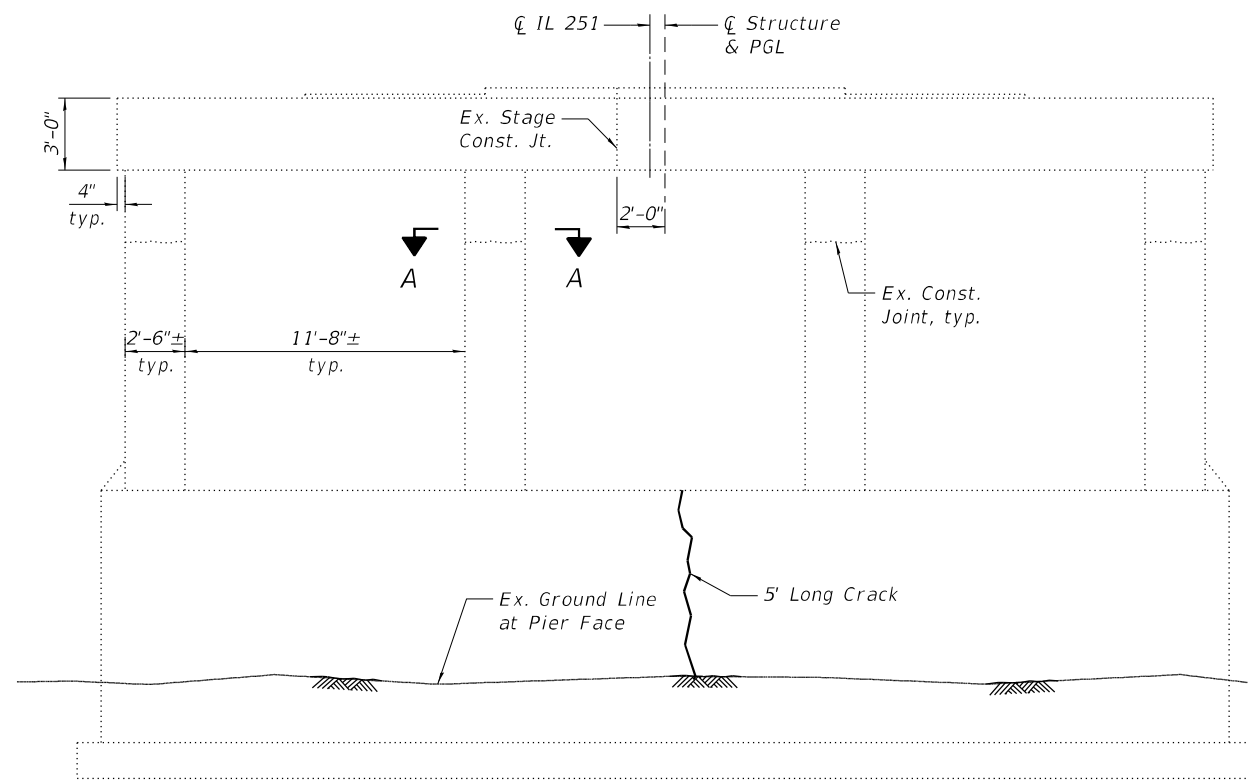
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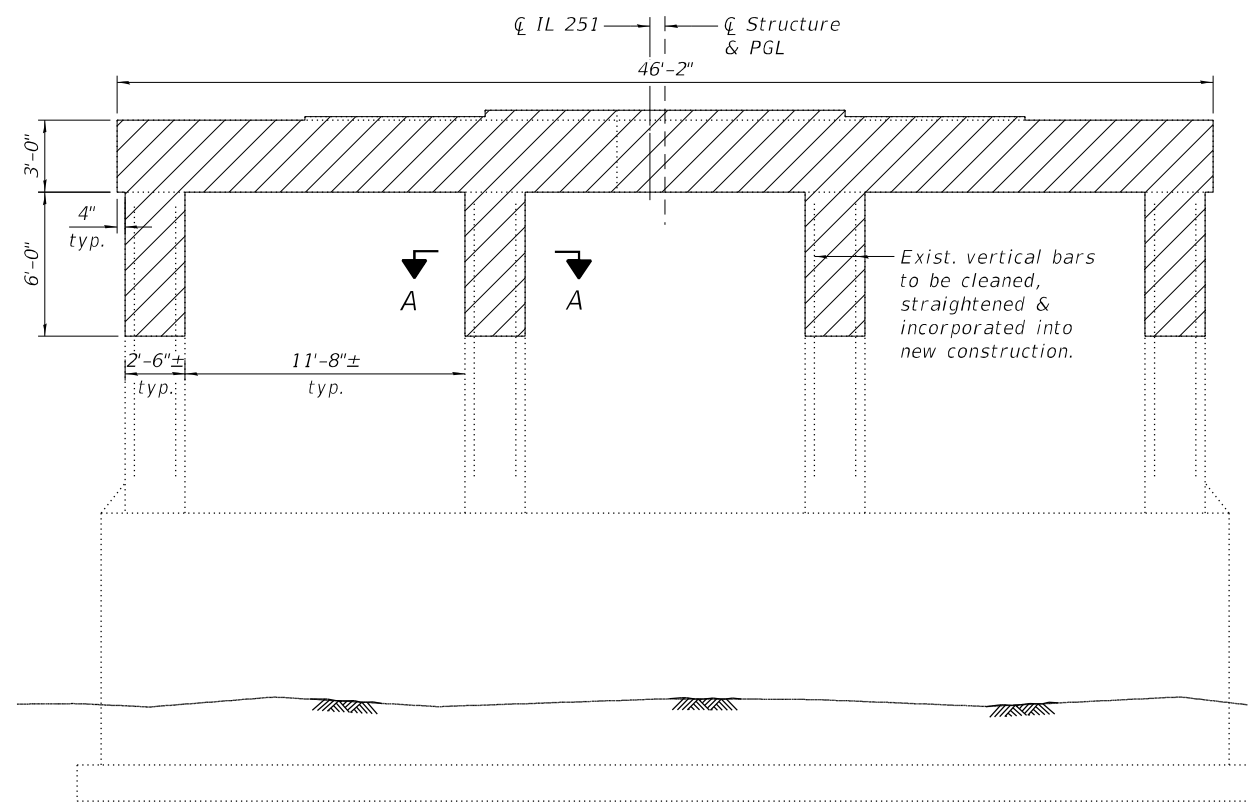
**ABUTMENT REPAIR DETAILS
STRUCTURE NO. 071-0001**

SHEET NO. 19 OF 21 SHEETS

F.A.S. RTE. 1042	SECTION 106VBR-D	COUNTY OGLE	TOTAL SHEETS 107	SHEET NO. 60
CONTRACT NO. 64L75				ILLINOIS FED. AID PROJECT



PIER 2 REPAIR DETAILS
(North Elevation)



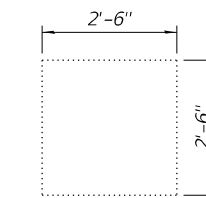
PIER 3 CAP REMOVAL DETAILS
(Looking South)

B ←

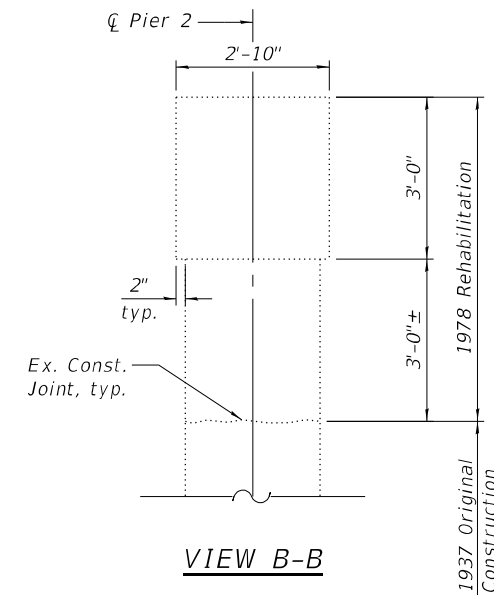
B ←

C ←

C ←



SECTION A-A



VIEW B-B

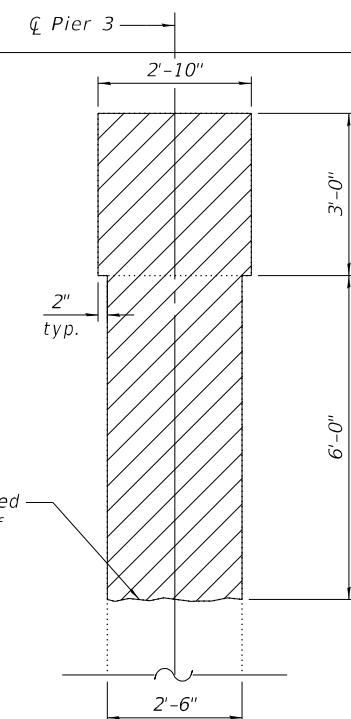
PIER 3 TEMPORARY SHORING REACTIONS

Service Dead Loads at Each Beam
(without Concrete Deck)

Location	Typ. Interior Beam	Exterior Beam
Pier 3 Span 3	3 (k)	3 (k)
Pier 3 Span 4	3 (k)	3 (k)

See Special Provision

☉ Temporary Shoring
(see Note 4 on Sheet 1 of 21)



VIEW C-C

Intentionally roughened to a full amplitude of approximately 1/4". Cost included with Concrete Removal.

Notes:

- Dimensions shown are from existing plans and shall be field verified by Contractor as necessary to complete the work.
- The quantities shown for repair are for estimating purposes only. The actual area to be repaired will be determined by the Engineer at the time of construction.
- After the deck has been removed, the existing steel beams shall be temporarily shored on each side of Pier 3 prior to any work on Concrete Removal at Pier 3. The beams shall remain temporarily shored until Pier 3 concrete has been poured and cured, and the new Pier bearings have been placed. See Special Provision.

LEGEND

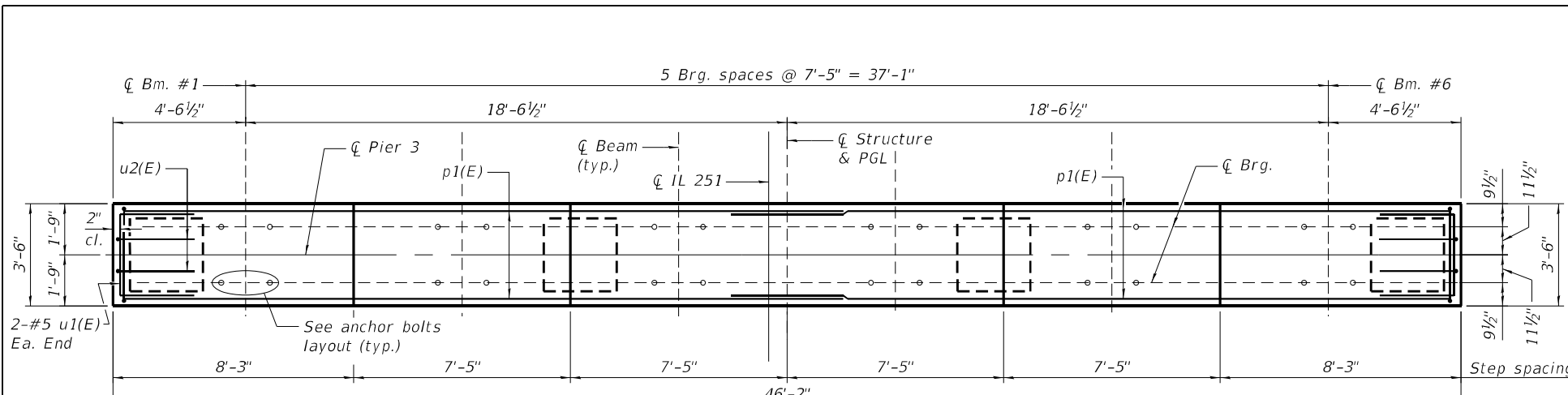
Epoxy Crack Injection

Concrete Removal

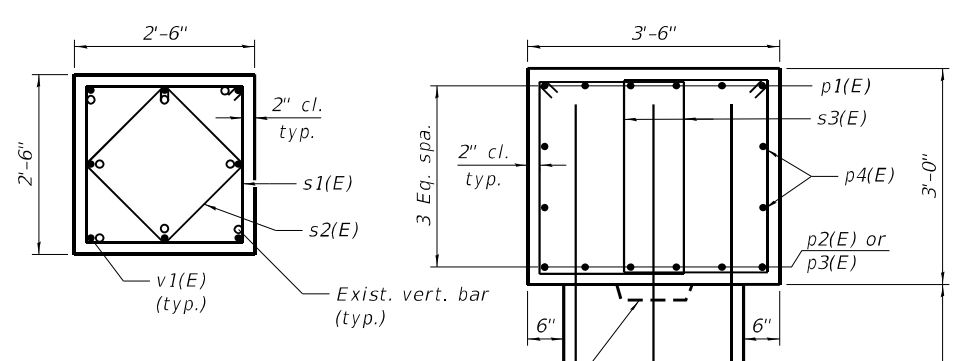
BILL OF MATERIAL

Item	Unit	Total
Epoxy Crack Injection	Foot	5
Concrete Removal	Cu. Yd.	24
Temporary Shoring	Each	2

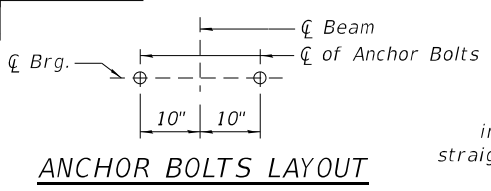
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TOP PLAN



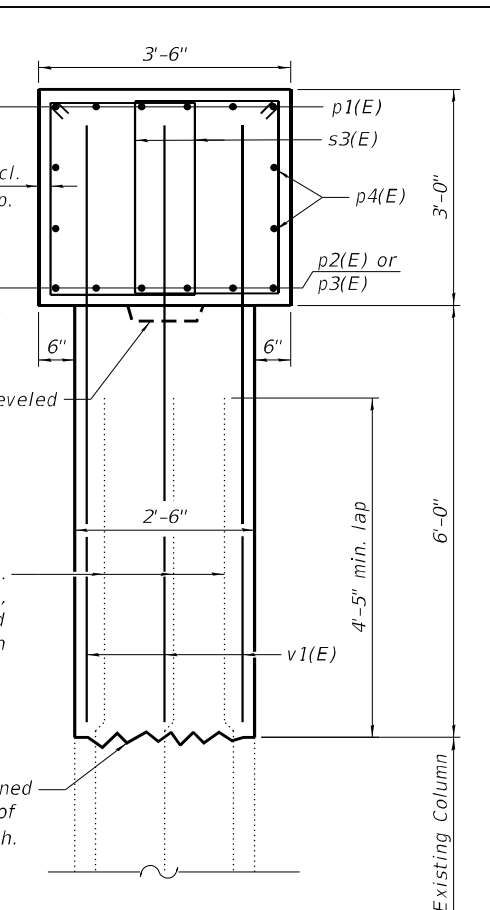
SECTION A-A



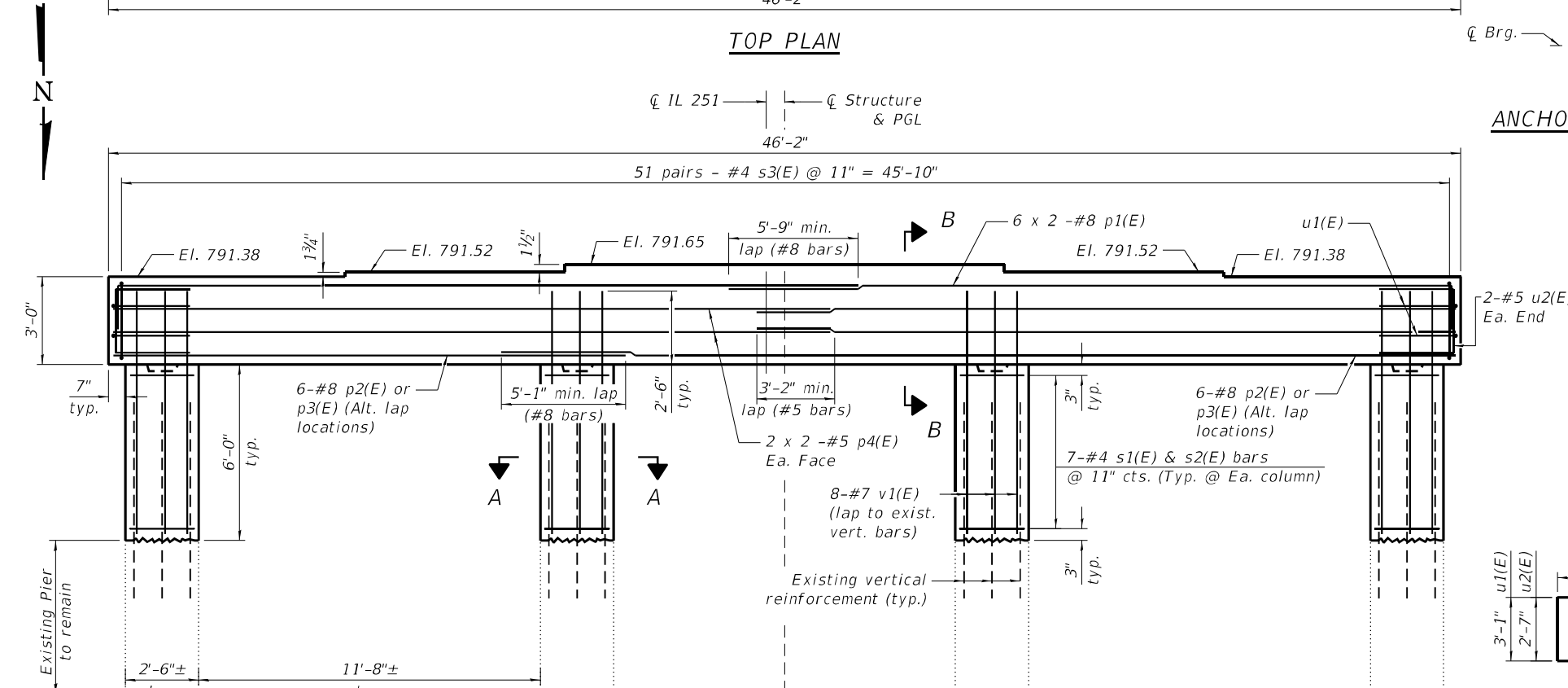
ANCHOR BOLTS LAYOUT

Existing vertical reinf. in column to be cleaned, straightened & incorporated into new construction

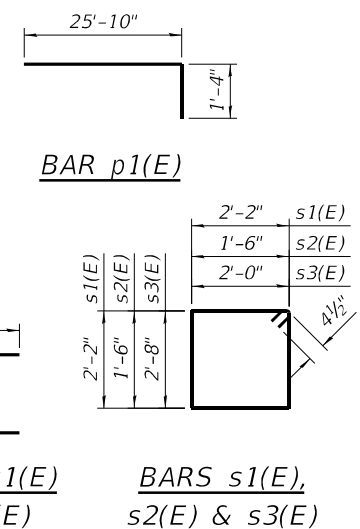
Intentionally roughened to a full amplitude of approximately 1/4 inch.



SECTION B-B
(At Pier 3)



NORTH ELEVATION
(Looking South)



BAR p1(E)

BARS u1(E) & u2(E)

BARS s1(E), s2(E) & s3(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	12	#8	27'-2"	┌┐
p2(E)	6	#8	18'-5"	┌┐
p3(E)	6	#8	32'-7"	┌┐
p4(E)	8	#5	24'-6"	┌┐
s1(E)	28	#4	9'-5"	┌┐
s2(E)	28	#4	6'-9"	┌┐
s3(E)	102	#4	10'-1"	┌┐
u1(E)	4	#5	7'-1"	┌┐
u2(E)	4	#5	6'-7"	┌┐
v1(E)	32	#7	8'-6"	┌┐
Concrete Structures			Cu. Yd.	24.4
Reinforcement Bars, Epoxy Coated			Pound	3,500
Concrete Sealer			Sq. Ft.	849

Notes:

- Bars designated 6 x 2 - #8 etc. indicates 6 lines of bars with 2 lengths per line.
- Dimensions shown are from existing plans and shall be field verified by Contractor as necessary to complete the work.
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- The Contractor has the option to substitute a precast cap at no additional cost to the State. If precast is used, the Contractor shall submit a precast cap design, sealed by an IL licensed Structural Engineer, to the Engineer for review and approval.
- Pier 3 bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to all exposed surface areas of new concrete at Pier 3.

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WBK ENGINEERING
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey	DESIGNED - CPT	REVISIONS
PLOT SCALE =	CHECKED - JZ	REVISIONS
PLOT DATE = 7/8/21	DRAWN - CPT	REVISIONS
	CHECKED - JZ	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 REPAIR DETAILS
STRUCTURE NO. 071-0001
SHEET NO. 21 OF 21 SHEETS

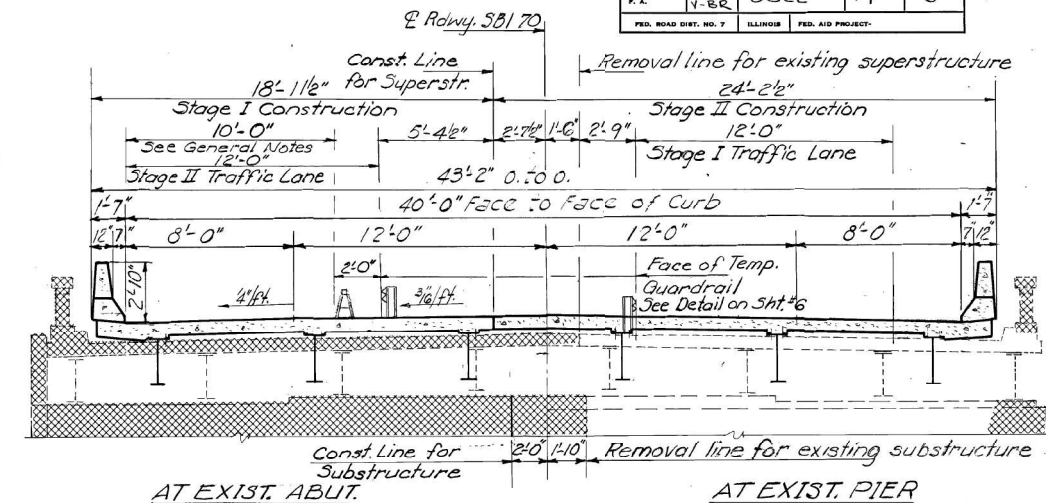
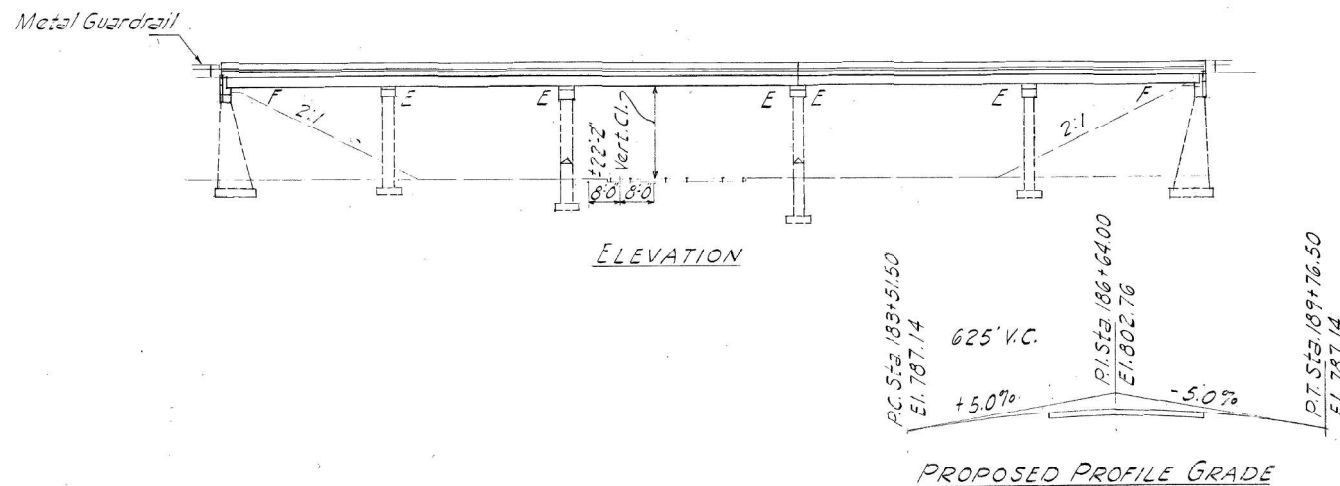
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	62
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

Bench Mark: Chisled So. base of light pole 26' Lt. Sta 185+49 El. 792.705
 Exis. Structure: No. 071-0001 Sta. 186+80.31 Built in 1936
 as S.B.I. Route 70 Sec. 106 VBR-1 Superstructure R.C. Deck
 on W beams Substructure R.C. Piers and R.C. Spill thru
 Abuts. Superstructure to be removed by Contractor
 using stage construction.
 No salvage.
 Traffic shall be maintained utilizing stage construction
 and temporary guardrail.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 70	106	OGLE	19	5
F.A.	VBR			

ILLINOIS FED. AID PROJECT



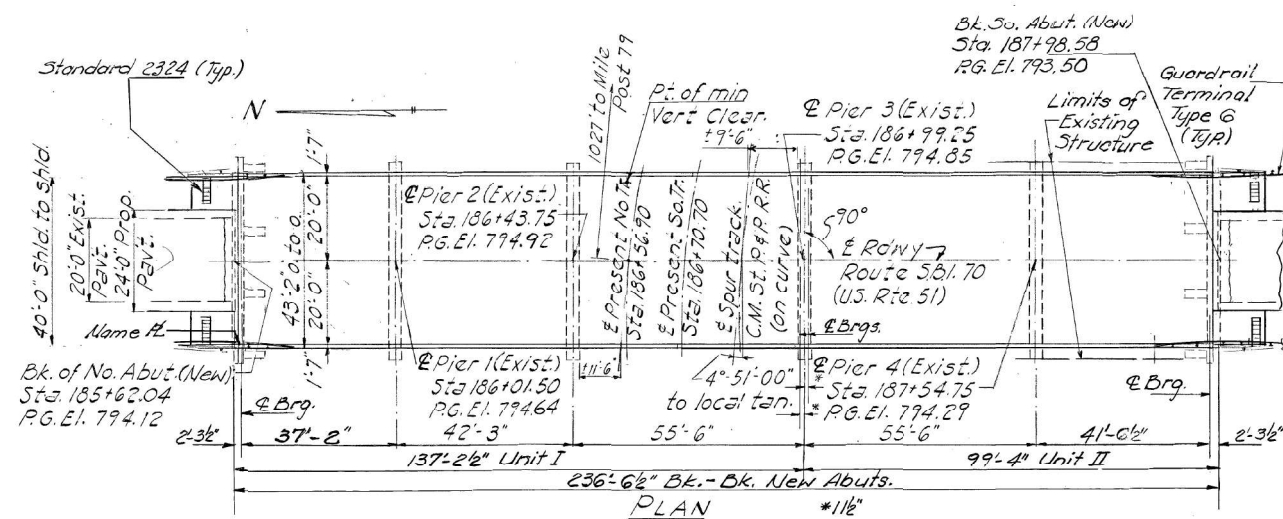
CROSS SECTION
 SHOWING TRAFFIC LANES AT STAGE CONST.
 (Looking South)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M51 Grade 60.
 Fasteners shall be high strength bolts. Bolts 3/8"; open holes 15/16", unless otherwise noted.
 Calculated weight of Structural Steel = 163,980 lbs. (M222) & 1,140 lbs. (M183)
 All structural steel shall be AASHTO M222 unpainted except expansion joint angles and attached bars which shall be AASHTO: M183 and shop painted with two coats of basic lead silico chromate paint.
 Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting diaphragms over supports.
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims, except @ Pier 1, 2 & 4.
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders or wide flange beams.
 The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 The Stage II traffic lane shall be limited to 10'-0" during the pouring of the deck for Stage Const. II and for seven (7) days following, or until test cylinders demonstrate an f'c of 3000 psi.
 The lane reduction shall be accomplished by using temporary barriers, which shall be cost incidental to Temporary Guardrail.

TOTAL BILL OF MATERIAL

Item	Super.	Sub.	Total
Class X Concrete Cu.Yds.	300.4	111.9	412.3
Reinforcement Bars Lbs.	33,990	16,270	50,260
Reinforcement Bars (Epoxy coated) Lbs.	49,890		49,890
Name Plate Ea.	1		1
Temporary Guardrail Lin.Ft.	236		236
Structural Steel L.S.			1
Removal of Existing Superstructures Ea.	1		1
Concrete Removal Cu.Yds.		104.0	104.0
Neoprene Expansion Jt. (4") Lin.Ft.	42		42
Stud Shear Connectors Ea.	3528		3528
Protective Coat Sq.Yds.	1235		1235
Structure Excavation Cu.Yds.		52.0	52.0



DESIGN STRESSES

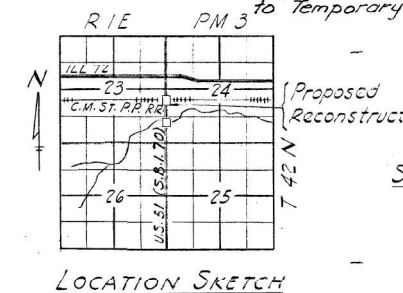
f_c = 3500 psi.
 f_y = 60000 psi. (Rein.F.)
 f_y = 50000 psi. (Struct.)

Allow 25 lbs. per ft. for future wearing surface
 Design Specification 1973 AASHTO
 1974, 1975, 1976 and 1977 Interim Specifications HS-20-44 LOADING (new constr.)

STATION 186+80.31
 BUILT 197 BY
 STATE OF ILLINOIS
 SBI RT 70 SEC. 106 VBR
 LOADING HS-20
 STR. No. **

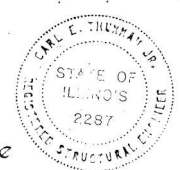
NAME PLATE
 See Std. 2113

** Struct. No. to be supplied by the District



GENERAL PLAN AND ELEVATION
 S.B.I. ROUTE 70 OVER C.M. ST. P. & P. R.R.
 S.B.I. ROUTE 70 SECTION 106 VBR
 OGLE COUNTY
 STATION 186+80.31

DESIGNED Ralph E. Anderson
 CHECKED J. Edwards
 DRAWN A. Borrazo
 EXAMINED [Signature]
 PASSED [Signature]
 APPROVED [Signature]



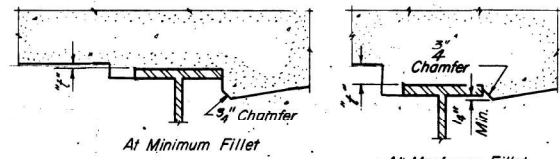
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FOR INFORMATION ONLY

WBK ENGINEERING WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = ctacey PLOT SCALE = PLOT DATE = 7/8/21	DESIGNED - CPT CHECKED - JZ DRAWN - CPT CHECKED - JZ	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS I STRUCTURE NO. 071-0001	F.A.S. RTE. 1042 SECTION 106VBR-D COUNTY OGLE TOTAL SHEETS 107 SHEET NO. 63 CONTRACT NO. 64L75 ILLINOIS FED. AID PROJECT
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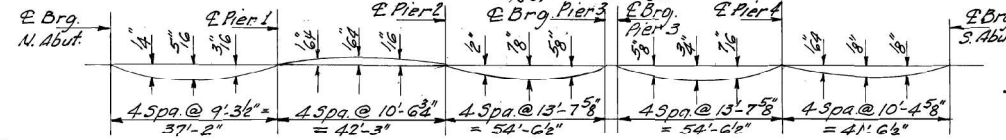
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 106	V-BR	OGLE	19	6
SHEET NO. 2 14 SHEETS				



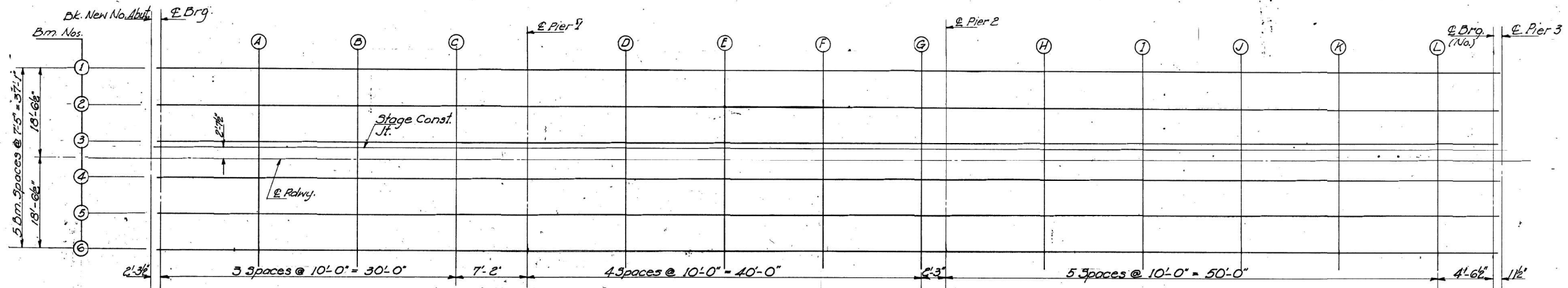
To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flange of beam.

FILLET HEIGHTS

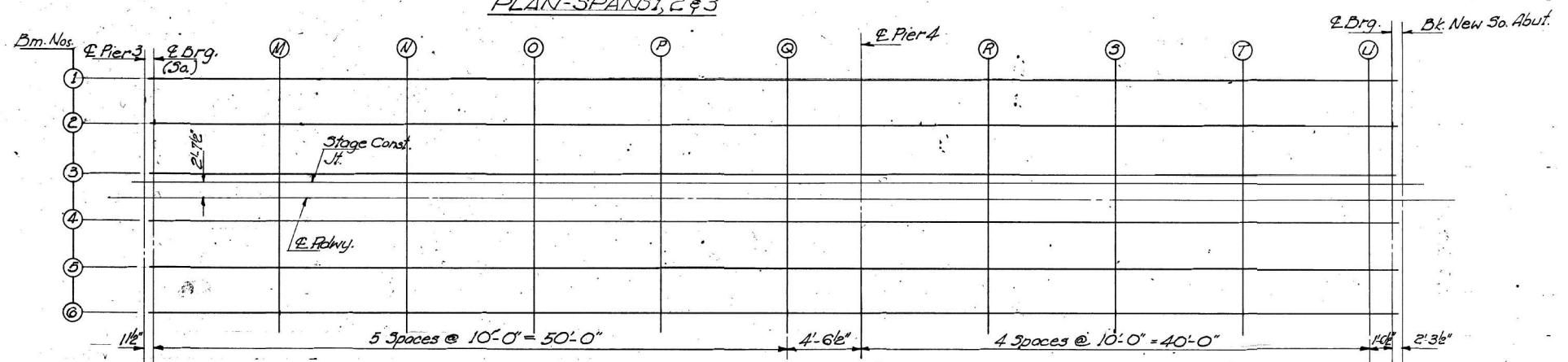


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



PLAN-SPANS 1, 2 & 3



PLAN-SPANS 4 & 5

DESIGNED	Ralph E. Anderson
CHECKED	John J. Edwards
DRAWN	A.B.
CHECKED	J.E.

EXAMINED	Jan 25 1973
PASSED	[Signature]
APPROVED	[Signature]

DECK ELEVATIONS
S.B.I. RT. 106 SEC. 106 VBR
OGLE COUNTY
STA. 186+80.31

FOR INFORMATION ONLY

FILE NAME = Z:\2018\180228_FT1818\cadd\Structural\Dgn\W012\500 Line Bridge\02091616-023-ExistPlans02.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey
PLOT SCALE =
PLOT DATE = 7/8/21

DESIGNED - CPT
CHECKED - JZ
DRAWN - CPT
CHECKED - JZ

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS II
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	64
CONTRACT NO. 64L75				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106	V-BR	OGLE	19	7
SHEET NO. 3				
14 SHEETS				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk New No Abut. Cap	18562.040	-18.540	793.792	793.792
E Brg. No. Abut.	18564.330	-18.540	793.829	793.829
A	18574.330	-18.540	793.981	794.000
B	18584.330	-18.540	794.116	794.140
C	18594.330	-18.540	794.236	794.247
E Pier 1	18601.500	-18.540	794.311	794.311
D	18611.500	-18.540	794.403	794.402
E	18621.500	-18.540	794.479	794.477
F	18631.500	-18.540	794.539	794.533
G	18641.500	-18.540	794.583	794.582
E Pier 2	18643.750	-18.540	794.591	794.591
H	18653.750	-18.540	794.616	794.647
I	18663.750	-18.540	794.624	794.682
J	18673.750	-18.540	794.616	794.687
K	18683.750	-18.540	794.593	794.651
L	18693.750	-18.540	794.553	794.572
E No. Brg. Pier 3	18698.290	-18.540	794.530	794.530
E So. Brg. Pier 3	18700.210	-18.540	794.519	794.519
M	18710.210	-18.540	794.453	794.492
N	18720.210	-18.540	794.371	794.430
O	18730.210	-18.540	794.273	794.334
P	18740.210	-18.540	794.159	794.198
Q	18750.210	-18.540	794.029	794.042
E Pier 4	18754.750	-18.540	793.965	793.965
R	18764.750	-18.540	793.812	793.814
S	18774.750	-18.540	793.643	793.655
T	18784.750	-18.540	793.458	793.471
U	18794.750	-18.540	793.256	793.258
E Brg. So. Abut.	18796.290	-18.540	793.224	793.224
Dk New So. Abut.	18798.580	-18.540	793.175	793.175

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk New No Abut. Cap	18562.040	-11.120	793.942	793.942
E Brg. No. Abut.	18564.330	-11.120	793.979	793.979
A	18574.330	-11.120	794.130	794.150
B	18584.330	-11.120	794.266	794.289
C	18594.330	-11.120	794.385	794.397
E Pier 1	18601.500	-11.120	794.461	794.461
D	18611.500	-11.120	794.553	794.552
E	18621.500	-11.120	794.629	794.627
F	18631.500	-11.120	794.689	794.683
G	18641.500	-11.120	794.733	794.732
E Pier 2	18643.750	-11.120	794.741	794.741
H	18653.750	-11.120	794.765	794.797
I	18663.750	-11.120	794.774	794.831
J	18673.750	-11.120	794.766	794.837
K	18683.750	-11.120	794.743	794.800
L	18693.750	-11.120	794.703	794.722
E No. Brg. Pier 3	18698.290	-11.120	794.680	794.680
E So. Brg. Pier 3	18700.210	-11.120	794.669	794.669
M	18710.210	-11.120	794.603	794.641
N	18720.210	-11.120	794.521	794.580
O	18730.210	-11.120	794.423	794.484
P	18740.210	-11.120	794.309	794.348
Q	18750.210	-11.120	794.179	794.191
E Pier 4	18754.750	-11.120	794.115	794.115
R	18764.750	-11.120	793.962	793.963
S	18774.750	-11.120	793.793	793.805
T	18784.750	-11.120	793.607	793.621
U	18794.750	-11.120	793.406	793.408
E Brg. So. Abut.	18796.290	-11.120	793.374	793.374
Dk New So. Abut.	18798.580	-11.120	793.325	793.325

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk New No Abut. Cap	18562.040	-3.700	794.058	794.058
E Brg. No. Abut.	18564.330	-3.700	794.095	794.095
A	18574.330	-3.700	794.246	794.266
B	18584.330	-3.700	794.382	794.405
C	18594.330	-3.700	794.501	794.513
E Pier 1	18601.500	-3.700	794.577	794.577
D	18611.500	-3.700	794.669	794.668
E	18621.500	-3.700	794.745	794.743
F	18631.500	-3.700	794.805	794.799
G	18641.500	-3.700	794.849	794.848
E Pier 2	18643.750	-3.700	794.857	794.857
H	18653.750	-3.700	794.881	794.913
I	18663.750	-3.700	794.890	794.947
J	18673.750	-3.700	794.882	794.953
K	18683.750	-3.700	794.858	794.916
L	18693.750	-3.700	794.819	794.838
E No. Brg. Pier 3	18698.290	-3.700	794.796	794.796
E So. Brg. Pier 3	18700.210	-3.700	794.785	794.785
M	18710.210	-3.700	794.719	794.757
N	18720.210	-3.700	794.637	794.696
O	18730.210	-3.700	794.539	794.600
P	18740.210	-3.700	794.425	794.467
Q	18750.210	-3.700	794.295	794.307
E Pier 4	18754.750	-3.700	794.231	794.231
R	18764.750	-3.700	794.078	794.079
S	18774.750	-3.700	793.908	793.921
T	18784.750	-3.700	793.723	793.737
U	18794.750	-3.700	793.522	793.524
E Brg. So. Abut.	18796.290	-3.700	793.490	793.490
Dk New So. Abut.	18798.580	-3.700	793.441	793.441

STAGE CONST. JT.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk New No Abut. Cap	18562.040	-2.620	794.075	794.075
E Brg. No. Abut.	18564.330	-2.620	794.112	794.112
A	18574.330	-2.620	794.263	794.283
B	18584.330	-2.620	794.399	794.422
C	18594.330	-2.620	794.518	794.530
E Pier 1	18601.500	-2.620	794.594	794.594
D	18611.500	-2.620	794.686	794.684
E	18621.500	-2.620	794.742	794.740
F	18631.500	-2.620	794.822	794.816
G	18641.500	-2.620	794.866	794.865
E Pier 2	18643.750	-2.620	794.874	794.874
H	18653.750	-2.620	794.898	794.930
I	18663.750	-2.620	794.907	794.964
J	18673.750	-2.620	794.899	794.970
K	18683.750	-2.620	794.875	794.933
L	18693.750	-2.620	794.836	794.855
E No. Brg. Pier 3	18698.290	-2.620	794.812	794.812
E So. Brg. Pier 3	18700.210	-2.620	794.802	794.802
M	18710.210	-2.620	794.736	794.774
N	18720.210	-2.620	794.654	794.713
O	18730.210	-2.620	794.556	794.617
P	18740.210	-2.620	794.442	794.481
Q	18750.210	-2.620	794.312	794.324
E Pier 4	18754.750	-2.620	794.248	794.248
R	18764.750	-2.620	794.099	794.096
S	18774.750	-2.620	793.925	793.938
T	18784.750	-2.620	793.740	793.753
U	18794.750	-2.620	793.539	793.541
E Brg. So. Abut.	18796.290	-2.620	793.507	793.507
Dk New So. Abut.	18798.580	-2.620	793.458	793.458

E ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk New No Abut. Cap	18562.040	0.0	794.116	794.116
E Brg. No. Abut.	18564.330	0.0	794.153	794.153
A	18574.330	0.0	794.304	794.324
B	18584.330	0.0	794.440	794.463
C	18594.330	0.0	794.559	794.571
E Pier 1	18601.500	0.0	794.635	794.635
D	18611.500	0.0	794.727	794.725
E	18621.500	0.0	794.803	794.801
F	18631.500	0.0	794.867	794.857
G	18641.500	0.0	794.907	794.906
E Pier 2	18643.750	0.0	794.915	794.915
H	18653.750	0.0	794.939	794.971
I	18663.750	0.0	794.947	794.905
J	18673.750	0.0	794.940	794.911
K	18683.750	0.0	794.916	794.974
L	18693.750	0.0	794.877	794.896
E No. Brg. Pier 3	18698.290	0.0	794.853	794.853
E So. Brg. Pier 3	18700.210	0.0	794.843	794.843
M	18710.210	0.0	794.777	794.815
N	18720.210	0.0	794.695	794.754
O	18730.210	0.0	794.597	794.657
P	18740.210	0.0	794.483	794.522
Q	18750.210	0.0	794.353	794.365
E Pier 4	18754.750	0.0	794.289	794.289
R	18764.750	0.0	794.135	794.137
S	18774.750	0.0	793.966	793.979
T	18784.750	0.0	793.781	793.794
U	18794.750	0.0	793.580	793.582
E Brg. So. Abut.	18796.290	0.0	793.547	793.547
Dk New So. Abut.	18798.580	0.0	793.499	793.499

DESIGNED *Ralph E. Anderson*
 CHECKED *Jan Edwards*
 DRAWN *A. Barrozo*
 CHECKED *JL*

EXAMINED *Jan 25 1978*
 PASSED *[Signature]*
 APPROVED *[Signature]*

DECK ELEVATIONS
SBI RT 70 SEC. 106 V.BR
OGLE COUNTY
STA. 186+80.31

FOR INFORMATION ONLY

FILE NAME = Z:\2018\180228_FT1818\Road\Structural\Dgn\W02\500_Line_Bridge\020916E-024-ExistPlan03.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. R. 70	106-VBR	OGLE	19	8
F.A.				14 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk. New No. Abut. Cap	18562.040	3.710	794.058	794.058
E. Brg. No. Abut.	18564.330	3.710	794.095	794.095
A	18574.330	3.710	794.246	794.266
B	18584.330	3.710	794.382	794.405
C	18594.330	3.710	794.501	794.513
E Pier 1	18601.500	3.710	794.577	794.577
D	18611.500	3.710	794.669	794.667
E	18621.500	3.710	794.745	794.743
F	18631.500	3.710	794.805	794.799
G	18641.500	3.710	794.849	794.848
E Pier 2	18643.750	3.710	794.857	794.857
H	18653.750	3.710	794.881	794.913
I	18663.750	3.710	794.890	794.947
J	18673.750	3.710	794.882	794.953
K	18683.750	3.710	794.858	794.916
L	18693.750	3.710	794.819	794.838
E No. Brg. Pier 3	18698.290	3.710	794.795	794.795
E So. Brg. Pier 3	18700.210	3.710	794.785	794.785
M	18710.210	3.710	794.719	794.757
N	18720.210	3.710	794.637	794.696
O	18730.210	3.710	794.539	794.599
P	18740.210	3.710	794.425	794.464
Q	18750.210	3.710	794.295	794.307
E Pier 4	18754.750	3.710	794.231	794.231
R	18764.750	3.710	794.077	794.079
S	18774.750	3.710	793.908	793.921
T	18784.750	3.710	793.723	793.736
U	18794.750	3.710	793.522	793.524
E Brg. So. Abut.	18796.290	3.710	793.489	793.489
Dk. New So. Abut.	18798.580	3.710	793.441	793.441

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk. New No. Abut. Cap	18562.040	11.130	793.942	793.942
E. Brg. No. Abut.	18564.330	11.130	793.979	793.979
A	18574.330	11.130	794.130	794.150
B	18584.330	11.130	794.246	794.289
C	18594.330	11.130	794.385	794.397
E Pier 1	18601.500	11.130	794.461	794.461
D	18611.500	11.130	794.553	794.552
E	18621.500	11.130	794.629	794.627
F	18631.500	11.130	794.689	794.683
G	18641.500	11.130	794.733	794.732
E Pier 2	18643.750	11.130	794.741	794.741
H	18653.750	11.130	794.765	794.797
I	18663.750	11.130	794.774	794.831
J	18673.750	11.130	794.766	794.837
K	18683.750	11.130	794.742	794.800
L	18693.750	11.130	794.703	794.722
E No. Brg. Pier 3	18698.290	11.130	794.680	794.680
E So. Brg. Pier 3	18700.210	11.130	794.669	794.669
M	18710.210	11.130	794.603	794.641
N	18720.210	11.130	794.521	794.590
O	18730.210	11.130	794.423	794.484
P	18740.210	11.130	794.309	794.348
Q	18750.210	11.130	794.179	794.191
E Pier 4	18754.750	11.130	794.115	794.115
R	18764.750	11.130	793.962	793.963
S	18774.750	11.130	793.792	793.805
T	18784.750	11.130	793.607	793.620
U	18794.750	11.130	793.406	793.408
E Brg. So. Abut.	18796.290	11.130	793.374	793.374
Dk. New So. Abut.	18798.580	11.130	793.325	793.325

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Dk. New No. Abut. Cap	18562.040	18.550	793.792	793.792
E. Brg. No. Abut.	18564.330	18.550	793.829	793.829
A	18574.330	18.550	793.981	794.000
B	18584.330	18.550	794.116	794.139
C	18594.330	18.550	794.235	794.247
E Pier 1	18601.500	18.550	794.311	794.311
D	18611.500	18.550	794.403	794.402
E	18621.500	18.550	794.479	794.477
F	18631.500	18.550	794.539	794.533
G	18641.500	18.550	794.583	794.582
E Pier 2	18643.750	18.550	794.591	794.591
H	18653.750	18.550	794.615	794.647
I	18663.750	18.550	794.624	794.681
J	18673.750	18.550	794.616	794.687
K	18683.750	18.550	794.593	794.650
L	18693.750	18.550	794.553	794.572
E No. Brg. Pier 3	18698.290	18.550	794.530	794.530
E So. Brg. Pier 3	18700.210	18.550	794.519	794.519
M	18710.210	18.550	794.453	794.491
N	18720.210	18.550	794.371	794.430
O	18730.210	18.550	794.273	794.334
P	18740.210	18.550	794.159	794.198
Q	18750.210	18.550	794.029	794.041
E Pier 4	18754.750	18.550	793.965	793.965
R	18764.750	18.550	793.812	793.813
S	18774.750	18.550	793.643	793.655
T	18784.750	18.550	793.457	793.471
U	18794.750	18.550	793.256	793.258
E Brg. So. Abut.	18796.290	18.550	793.224	793.224
Dk. New So. Abut.	18798.580	18.550	793.175	793.175

DESIGNED *Ralph E. Anderson*
 CHECKED *Joe Edwards*
 DRAWN *A. Barroza*
 CHECKED *JHC*

EXAMINED *Jan 25 1978*
 PASSED *[Signature]*
 APPROVED *[Signature]*

DECK ELEVATIONS
SBI. RT. 70 SEC. 106 V.B.R
OGLE COUNTY
STA. 186+80.31

FOR INFORMATION ONLY

FILE NAME = Z:\2018\180228_FT\BIBS\cadd\Structural\Dgn\W012\500 Line Bridge\02091616-025-ExistP\plan04.dgn

WBK ENGINEERING
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey
 PLOT SCALE =
 PLOT DATE = 7/8/21

DESIGNED - CPT
 CHECKED - JZ
 DRAWN - CPT
 CHECKED - JZ

REVISED -
 REVISED -
 REVISED -
 REVISED -

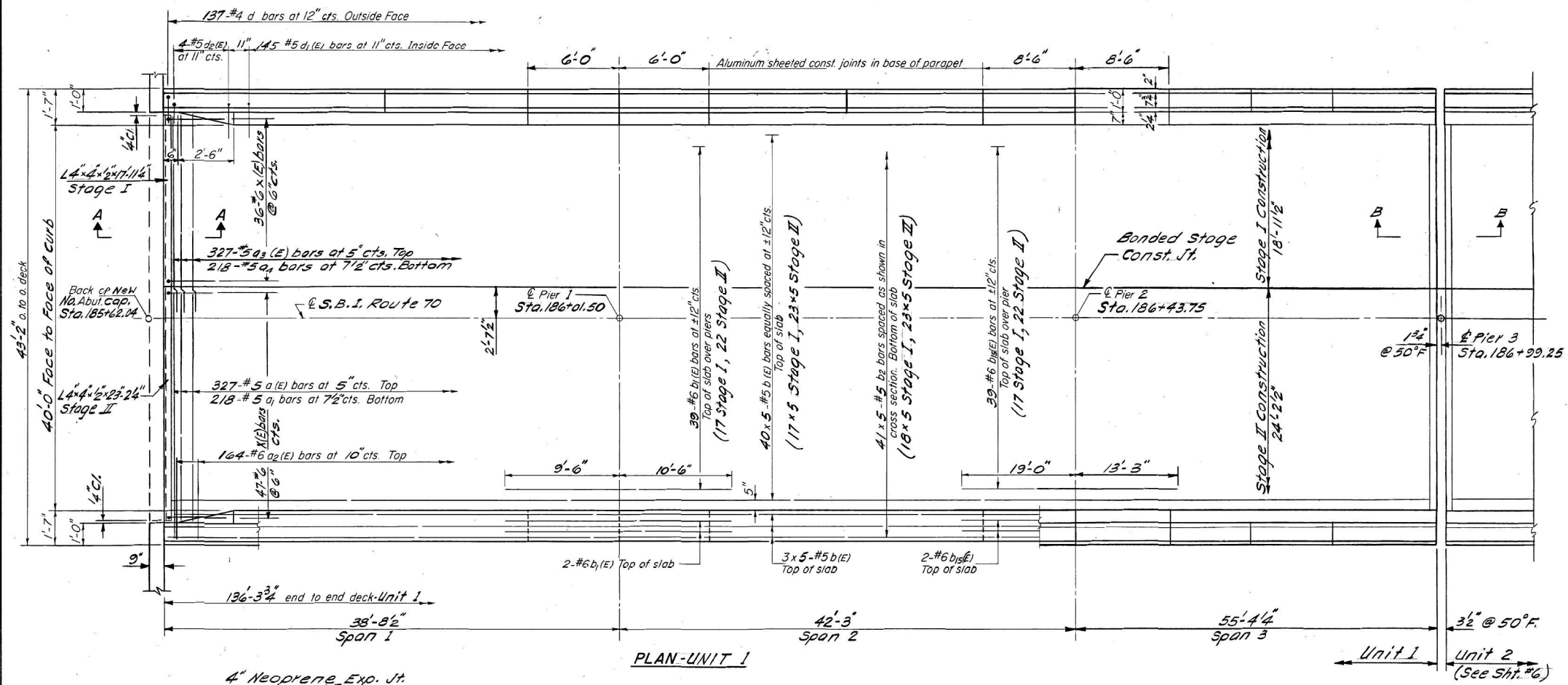
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS IV
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	66
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

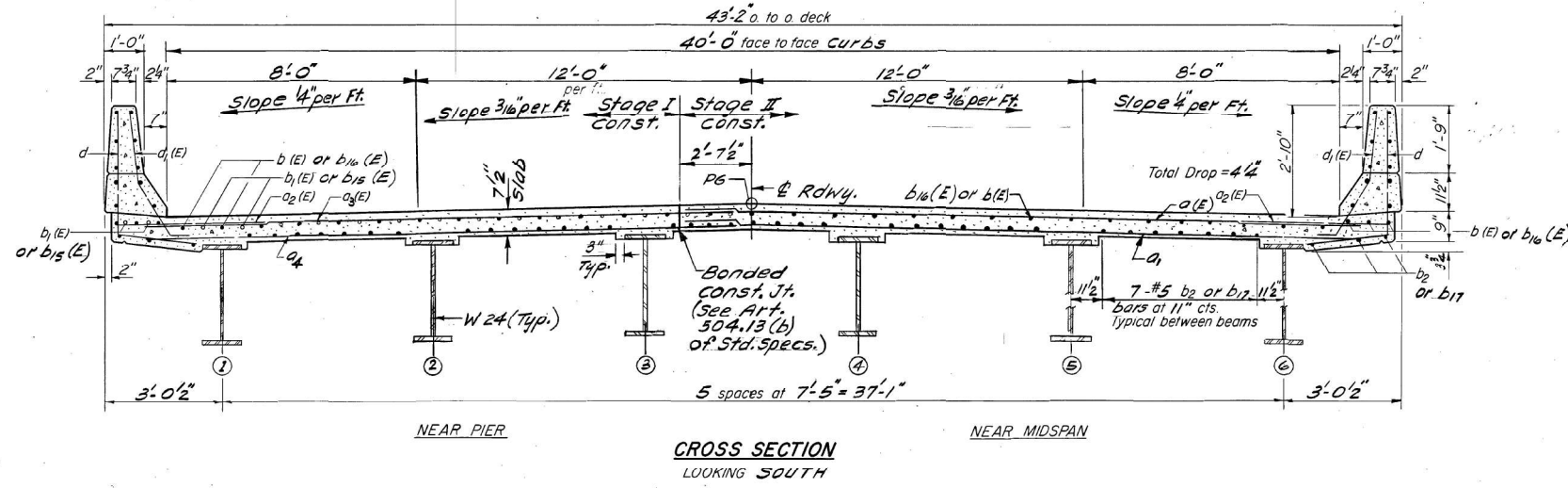
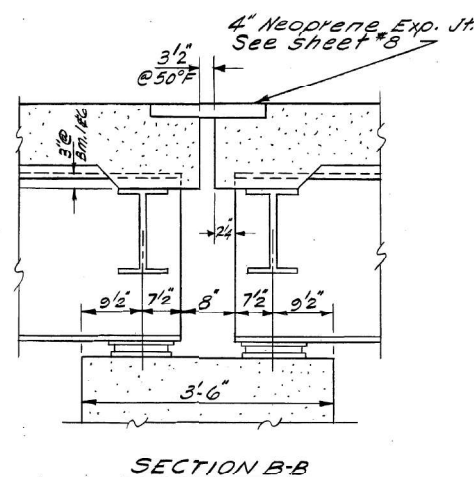
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106	V-BR	OGLE	19	9
SHEETS 14				



UNIT 1
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	327	#5	23'-0"	—
a ₁	218	#5	23'-0"	—
a ₂ (E)	328	#6	4'-0"	—
a ₃ (E)	327	#5	20'-0"	—
a ₄	218	#5	20'-0"	—
b(E)	230	#5	28'-9"	—
b ₁ (E)	43	#6	20'-0"	—
b ₂	205	#5	28'-9"	—
b ₃ (E)	43	#6	32'-3"	—
d	274	#4	5'-3"	L
d ₁ (E)	290	#5	3'-11"	L
d ₂ (E)	8	#5	4'-2"	L
x(E)	83	#6	5'-3"	C
Reinforcement Bars			Lbs.	16880
Rein. Bars (Epoxy Coated)			Lbs.	28780
Class X Concrete			Cu.Yds.	174.2



Notes:
All edges have 3/4 chamfers.
See sheet #7 for superstructure details.
Min. lap for #5 bars = 1'-9"
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
The designation 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Use composite construction in spans 1 & 3 only

SUPERSTRUCTURE
UNIT 1
S.B.I. RT.70 SEC.106 VBR
OGLE COUNTY
STA.186+80.31

DESIGNED: Ralph E. Anderson
CHECKED: [Signature]
DRAWN: [Signature]
CHECKED: [Signature]
EXAMINED: [Signature] Jan 25 1978
PASSED: [Signature]
APPROVED: [Signature] DIRECTOR OF HIGHWAYS

S-1-0 9-27-76

FOR INFORMATION ONLY



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey
DESIGNED - CPT
CHECKED - JZ
DRAWN - CPT
CHECKED - JZ
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS V
STRUCTURE NO. 071-0001

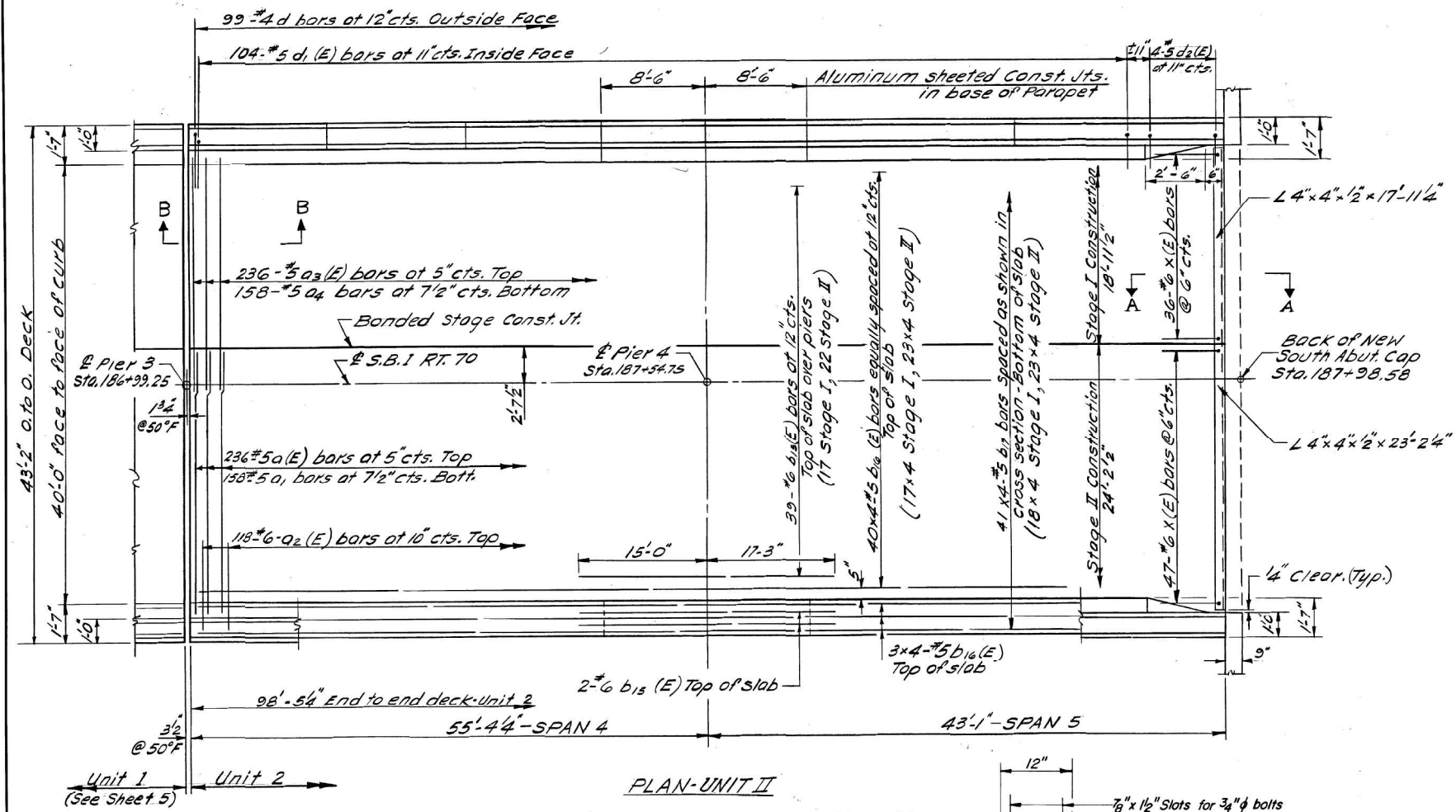
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	67
CONTRACT NO. 64L75				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

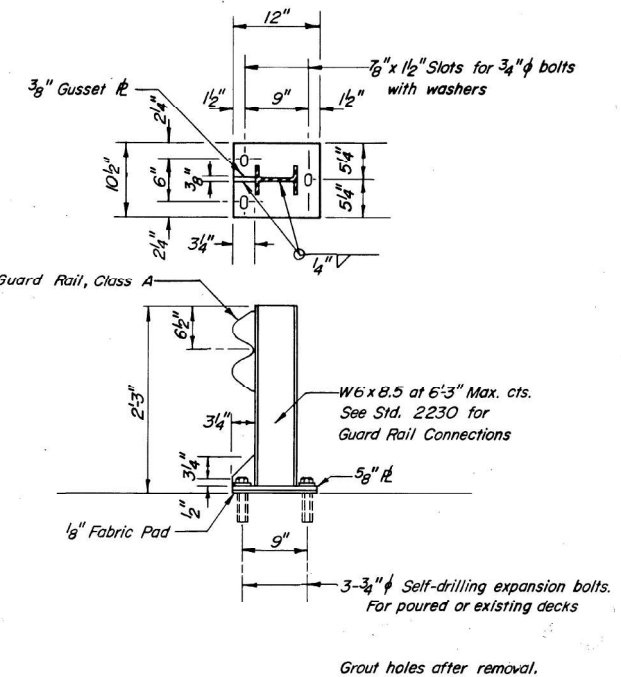
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. R. 170	106-	OGLE	19	10
F.A.	V-BR			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
SHEETS 14



UNIT 2
SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	236	#5	23'-0"	
a1	158	#5	23'-0"	
a2(E)	236	#6	4'-0"	
a3(E)	236	#5	20'-0"	
a4	158	#5	20'-0"	
b15(E)	43	#6	32'-3"	
b16(E)	184	#5	26'-0"	
b17	164	#5	26'-0"	
d	198	#4	5'-3"	L
d1(E)	208	#5	3'-11"	L
d2(E)	8	#5	4'-2"	L
x(E)	83	#6	5'-3"	C
Reinforcement Bars			Lbs.	12230
Reinf. Bars (Epoxy Coated)			Lbs.	20620
Class X Concrete			Cu.Yds.	126.2



Notes:
See sheet #7 for superstructure details
See sheet #5 for Section B-B & Cross Section.
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
The designation 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Use Composite Construction in Spans 4 & 5

SUPERSTRUCTURE
UNIT 2
S.B.I. RT.70 SEC.106 VBR
OGLE COUNTY
STA.186+80.31

DESIGNED: Ralph E. Anderson
CHECKED: Jay Edwards
DRAWN: [Signature]
CHECKED: [Signature]
EXAMINED: [Signature] Jan 25 1978
PASSED: [Signature]
APPROVED: [Signature]
ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS

TEMPORARY GUARD RAIL DETAIL
See Special Provisions

FOR INFORMATION ONLY

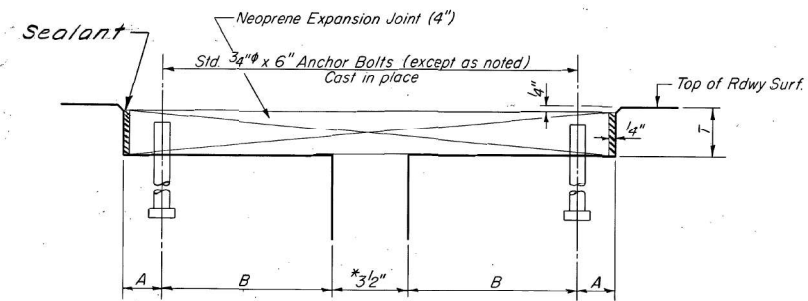
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 SHEETS 14
S.B.I. 70	106-VBR	OGLE	19	12	
F.A.S. 1042		OGLE			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT			

ALTERNATE NEOPRENE EXPANSION JOINTS (4")
(See Special Provisions)

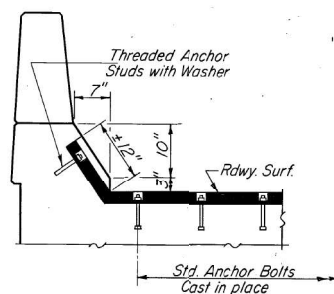
Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 400A	General Tire Company	T = 2 ³ / ₈ " A = 1 ¹ / ₃ " B = 8 ¹ / ₁₆ "
WABOFLEX, MODEL SR 4	Watson Bowman Associates, Inc.	T = 2 ³ / ₈ " A = 1 ¹ / ₃ " B = 8 ¹ / ₁₆ "
FEL-SPAN, MODEL T-40 Set joint seal 2 ¹ / ₈ " at 50°F. Use 1/2" x 6" Anchor Bolts. Max. expansion length = 300'	Fel-Pro Building Products Inc.	T = 2 ³ / ₈ " A = 2 ¹ / ₄ " B = 2 ⁵ / ₁₆ "
WABO ELASTODAM, TYPE 400 Set joint seal 2 ¹ / ₈ " at 50°F. Use 1/2" x 6" Anchor Bolts. Max. expansion length = 300'	Watson Bowman Associates, Inc.	T = 2 ³ / ₈ " A = 2 ¹ / ₄ " B = 2 ⁵ / ₁₆ "



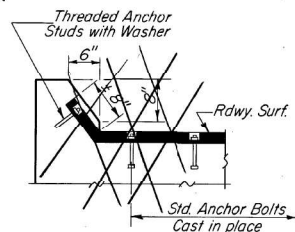
CROSS SECTION
*At 50°F

Dimensions are at right angles.

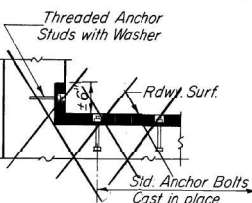
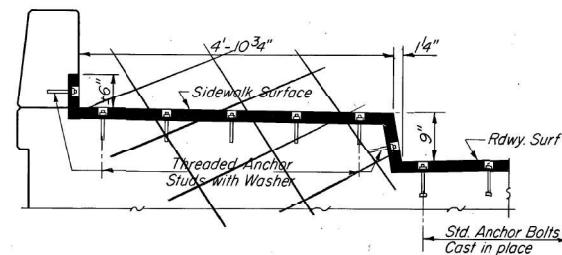
NOTE:
Joint openings shall be adjusted in accordance with Article 503.07 (c) of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.



AT CURBS



AT SIDEWALK



AT ABUTMENT

*Max. expansion length for the Fel-Span, Model T-40 and Wabo Elastodam, Type 400 = 300 ft.

DESIGNED <i>Robert E. Anderson</i>	EXAMINED <i>Jan 25 1978</i>
CHECKED <i>J. J. Edwards</i>	PASSED <i>[Signature]</i>
DRAWN <i>[Signature]</i>	APPROVED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	DIRECTOR OF HIGHWAYS

EJ-3 2-10-77

NEOPRENE EXPANSION JOINTS (4")
FOR EXPANSION LENGTH OF DECK = 200 ft. to 320 ft.

S.B.I. RT.70 SEC.106 VBR
OGLE COUNTY
STA.186+80.31

FOR INFORMATION ONLY



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey
PLOT SCALE =
PLOT DATE = 7/8/21

DESIGNED - CPT
CHECKED - JZ
DRAWN - CPT
CHECKED - JZ

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

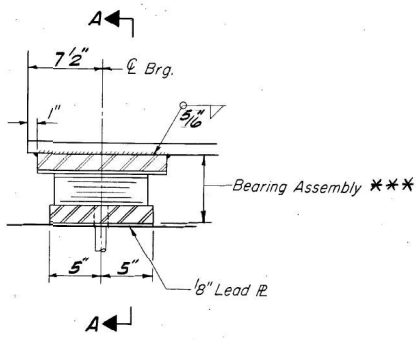
EXISTING PLANS VIII
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	70
			CONTRACT NO. 64L75	
ILLINOIS FED. AID PROJECT				

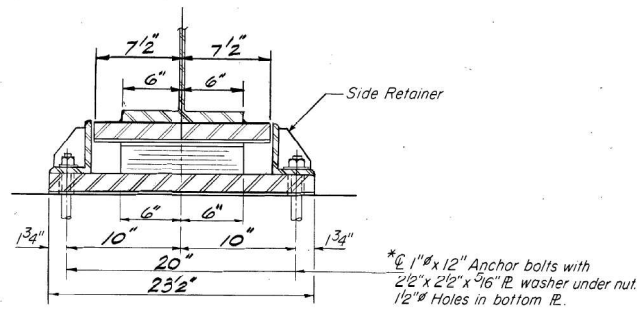
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

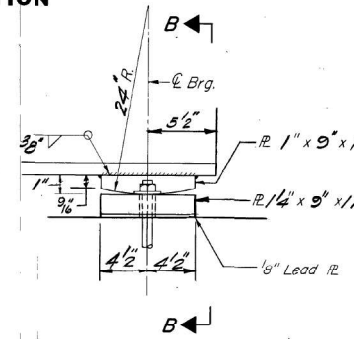
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEETS 14
S.B.I. 70	106-VBR	OGLE	19	13	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



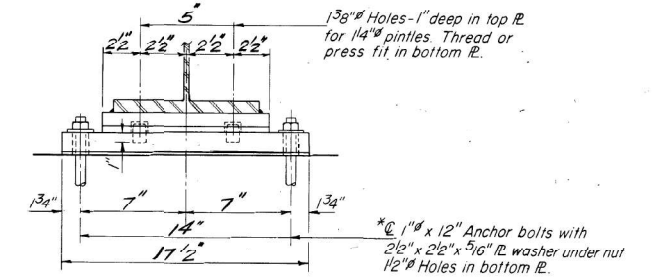
SECTION AT PIER 3



SECTION A-A

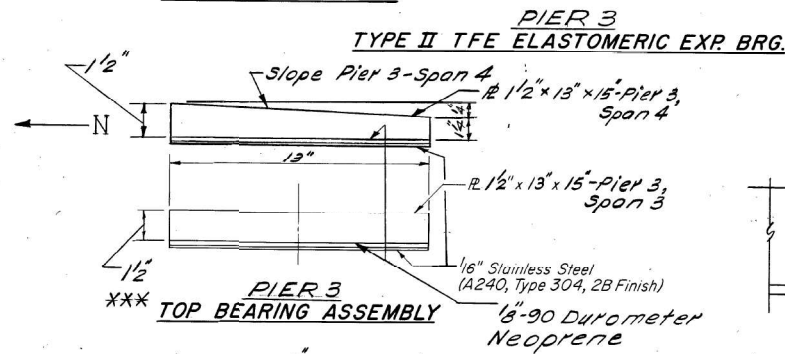


ELEVATION AT ABUT.



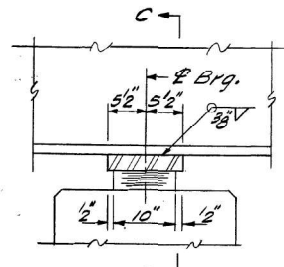
SECTION B-B

FIXED BEARING

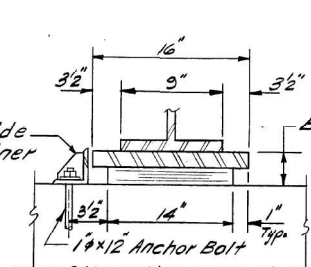


PIER 3
TYPE II TFE ELASTOMERIC EXP. BRG.

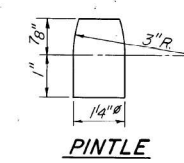
*Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



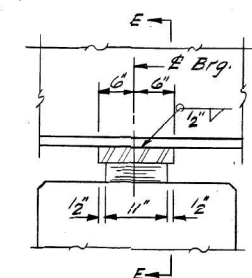
SECTION AT PIER 1



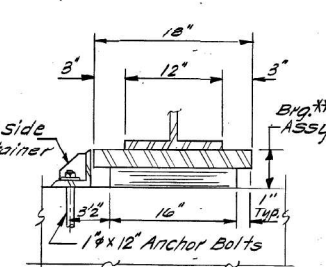
SECTION C-C



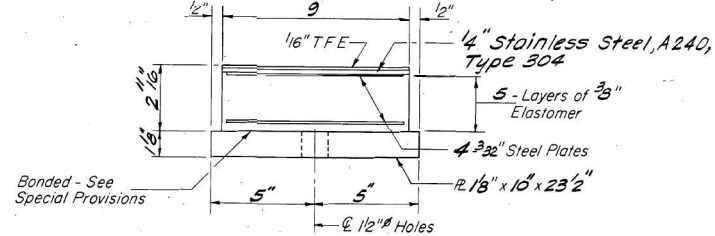
PINTLE



SECTION AT PIER 4

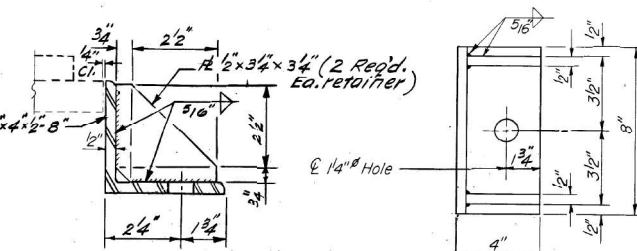


SECTION E-E

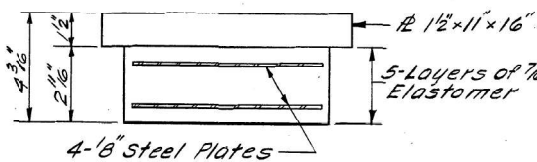


PIER 3 TOP BEARING ASSEMBLY

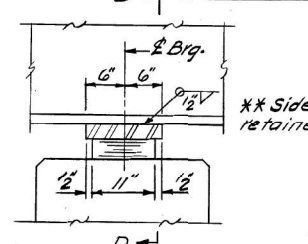
Note: The 1/6" TFE sheet shall be bonded directly to the top steel laminate sheet with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type 1. The bond agent shall be applied on the full area of the contact surfaces.



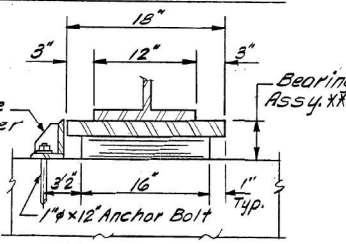
PIER 3 BOTTOM BEARING ASSEMBLY



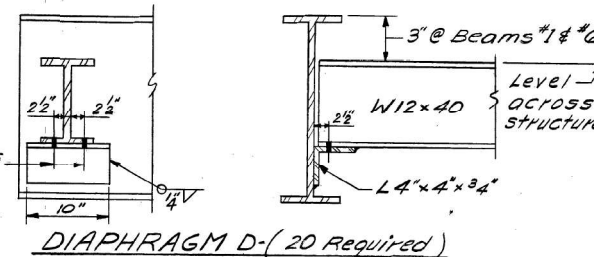
PIER 1
TYPE I ELASTOMERIC EXP. BRG.



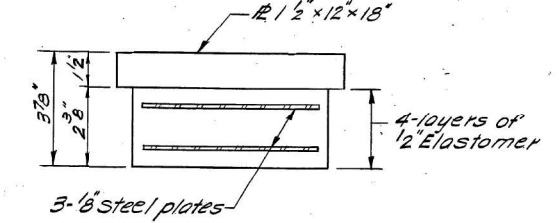
SECTION AT PIER 2



SECTION D-D



DIAPHRAGM D-(20 Required)

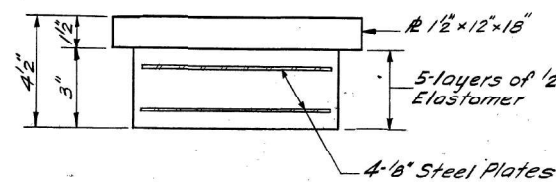


PIER 4
TYPE I ELASTOMERIC EXP. BRG.

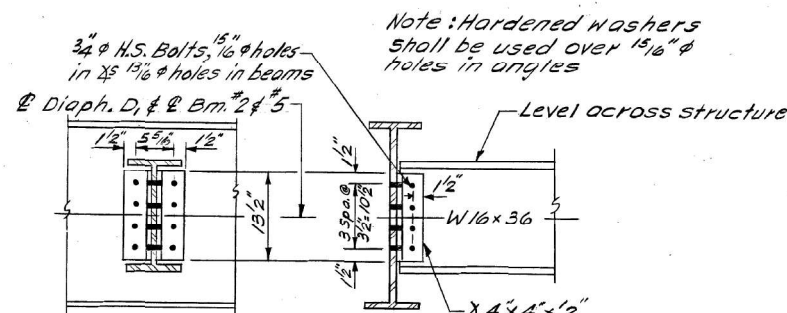
SIDE RETAINER
(30 Required)

DESIGNED	Ralph E. Anderson
CHECKED	Jo J. Edwards
DRAWN	Jeff
CHECKED	JE

EXAMINED	Jan 25 1978
PASSED	
APPROVED	



PIER 2
TYPE I ELASTOMERIC EXP. BRG.



DIAPHRAGM D,-55 Required

DIAPHRAGM &
BEARING DETAILS
S.B.I. RT.70 SEC.106 VBR
OGLE COUNTY
STA.186+80.31

FOR INFORMATION ONLY

FILE NAME = Z:\2018\180228_FT1818\cadd\Structural\Drawn\012\500 Line Bridge\020\1616-038-ExisP1.dwg



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME	= ctacey
PLOT SCALE	=
PLOT DATE	= 7/8/21

DESIGNED	- CPT	REVISED	-
CHECKED	- JZ	REVISED	-
DRAWN	- CPT	REVISED	-
CHECKED	- JZ	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

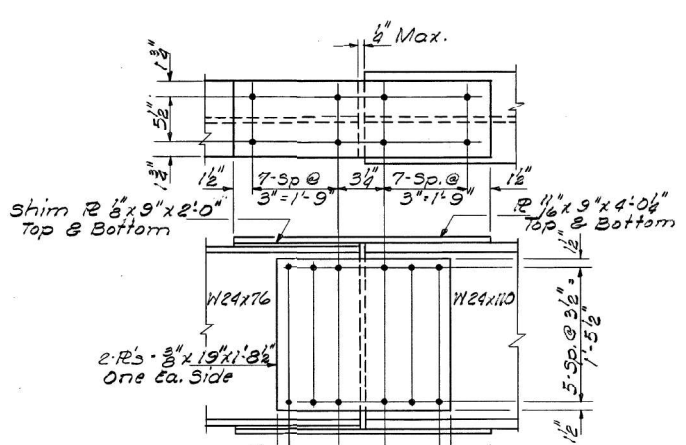
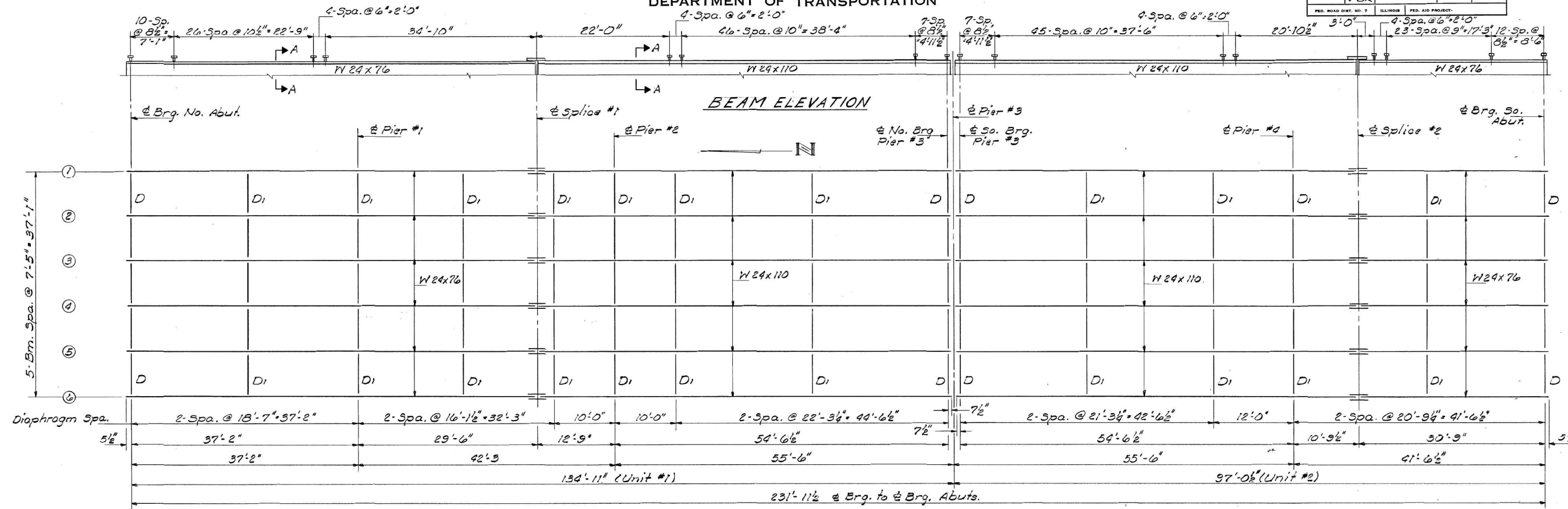
EXISTING PLANS IX
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	71
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106- V.B.R.	106- V.B.R.	OGLE	19	14
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 10
14 SHEETS



INTERIOR BEAM MOMENT TABLE

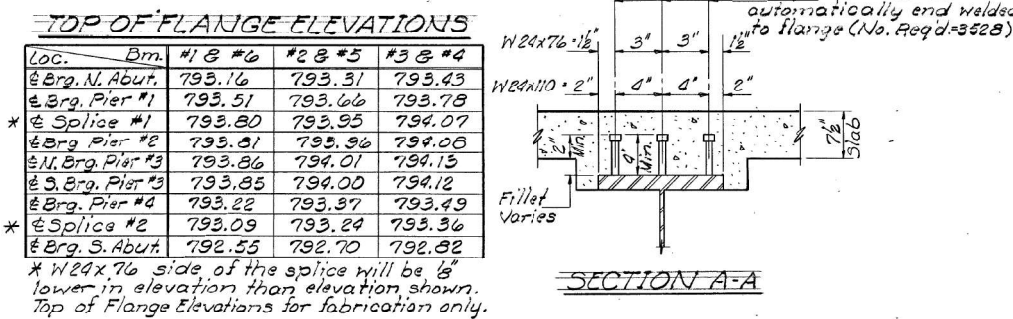
	UNIT #1				UNIT #2			
	4 Sp. #1	Pier #1	5 Sp. #2	Pier #2	6 Sp. #3	4 Sp. #4	Pier #3	6 Sp. #5
I _s (in ⁴)	2100	2100	2100	3330	3330	3330	3330	2100
I _c (in ⁴)	6645			9255	9255			6645
S _x (in ³)	176.0	176.0	176.0	276.0	276.0	276.0	276.0	176.0
S _c (in ³)	276.2			400.5	400.5			276.2
E (k/ft)	.792	1.094	1.094	1.136	.834	.834	1.136	.792
M _E (k)	32.12	136.62	29.84	297.49	206.82	196.36	925.62	64.58
f _{sE} (ksi)	6.23	9.32	2.03	12.93	8.99	8.54	14.16	4.70
S _E (k/ft)	.302			.302	.302			.302
M _{S_E} (k)	36.33			82.18	81.59			36.02
M _E (k)	241.39	159.91	181.32	193.62	416.58	413.08	181.50	266.19
M _{IMP} (k)	72.42	47.97	54.40	58.09	116.64	115.66	54.45	73.86
TOTAL (k)	350.14	207.88	235.72	251.71	615.40	610.13	235.95	382.07
f _{sE+R} (ksi)	13.21	14.17	16.07	10.94	18.44	18.28	10.26	16.60
f _{sTOTAL} (ksi)	21.49	23.49	18.10	23.87	27.43	26.82	24.42	21.00

INTERIOR BEAM REACTION TABLE

	Span #1	Span #3	Span #4
V _R (k)	51.5	53.3	51.6

	N. Abut.	Pier #1	Pier #2	R ₂ Sp. #3	R ₃ Sp. #4	Pier #4	So. Abut.
R _E (k)	16.77	43.65	63.70	25.64	25.12	67.87	15.25
R _I (k)	35.36	43.53	45.55	59.23	39.13	45.56	36.01
Imp. (k)	10.61	13.07	13.15	10.91	10.89	13.21	10.80
R _{TOTAL} (k)	62.74	100.25	122.40	95.78	75.19	126.64	62.06

I_s and S_s are the moment of inertia and section modulus of the steel section
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s
 V_R is the maximum & + Impact shear range in span used to determine stud shear connector spacing.



STRUCTURAL STEEL
 S.B.I. RT 70 SEC 106 VBR
 OGLE COUNTY
 STA. 186+80.31

FOR INFORMATION ONLY

FILE NAME: Z:\2018\180228 FTBIBR\cadd\Structural\Dgn\W012\500 Line Bridge\020916\03-ExistPlans10.dgn



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ctacey	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

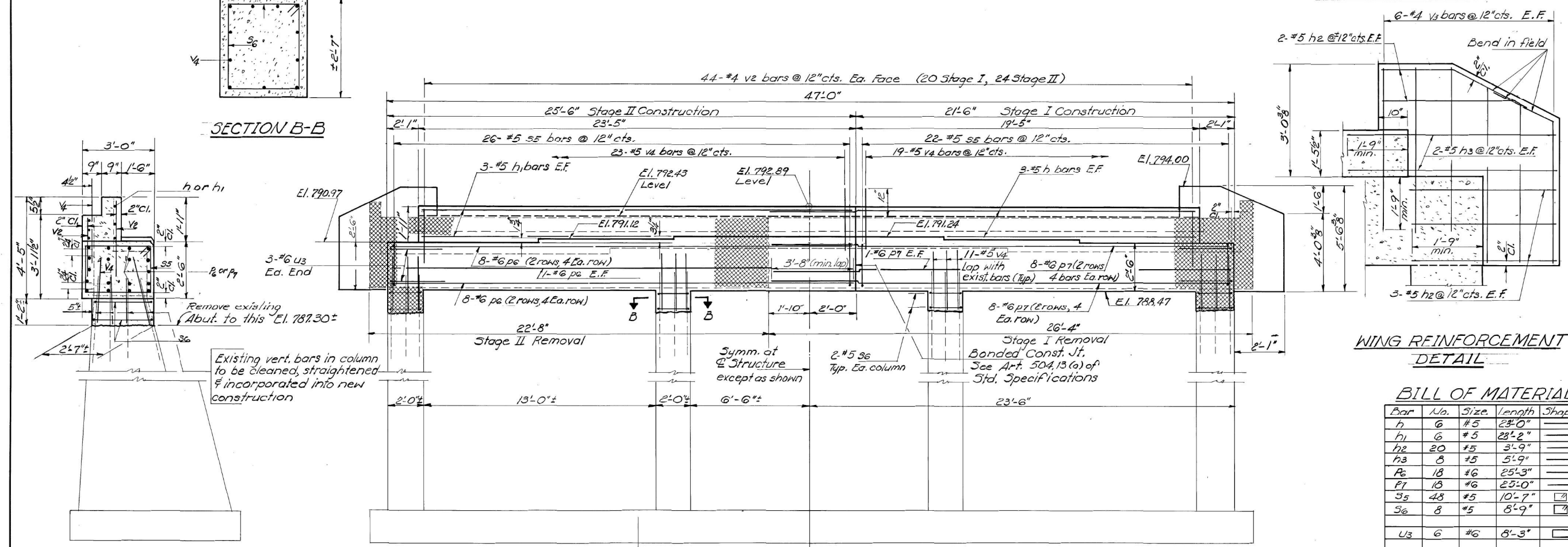
EXISTING PLANS X
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	72
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 64L75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
R. 170	106-V-BR	OGLE	19	15
SHEET NO. 11 14 SHEETS				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

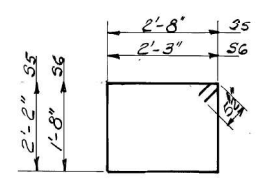


WING REINFORCEMENT
DETAIL

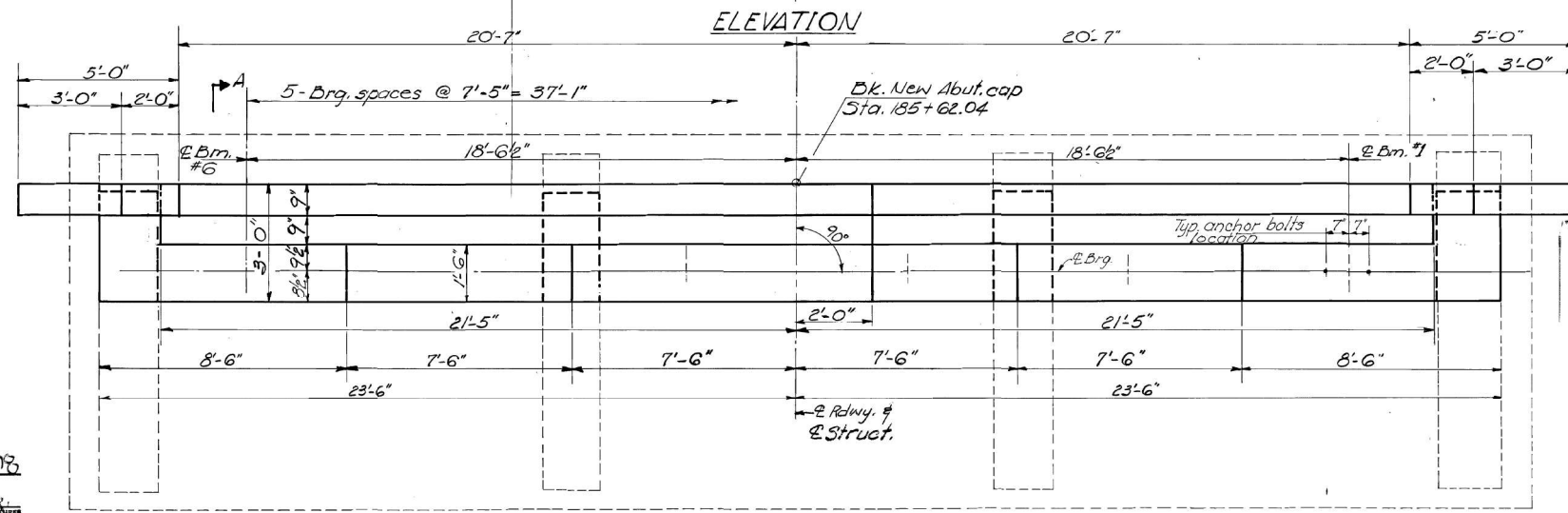
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	6	#5	23'-0"	—
h1	6	#5	23'-2"	—
h2	20	#5	3'-9"	—
h3	8	#5	5'-9"	—
R6	18	#6	25'-3"	—
P1	18	#6	25'-0"	—
S5	43	#5	10'-7"	□
S6	8	#5	8'-9"	□
U3	6	#6	8'-3"	□
V2	88	#4	3'-6"	—
V3	24	#4	4'-9"	—
V4	16	#5	3'-0"	—
Class X Concrete Cu.Yds.				19.3
Reinf. Bars Pounds				3,000
Concrete Removal Cu.Yds.				14.

SECTION A-A



BARS S5 & S6



PLAN

Note: Crosshatched area indicates concrete removal.

NORTH ABUTMENT
S.B.I. RT. 70 SEC. 106 V.BR
OGLE COUNTY
STA. 186+80.31

DESIGNED <i>Ralph E. Anderson</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>Jeff Edwards</i>	PASSED <i>[Signature]</i>
DRAWN <i>A. Barraza</i>	APPROVED <i>[Signature]</i>
CHECKED <i>[Signature]</i>	DIRECTOR OF HIGHWAYS

FILE NAME = Z:\2018\180228 FT1818\Road\Structural\Dgn\W012\500 Line Bridge\020916\6-032-ExisPlen11.dgn

FOR INFORMATION ONLY



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey	DESIGNED - CPT	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/8/21	DRAWN - CPT	REVISED -
	CHECKED - JZ	REVISED -

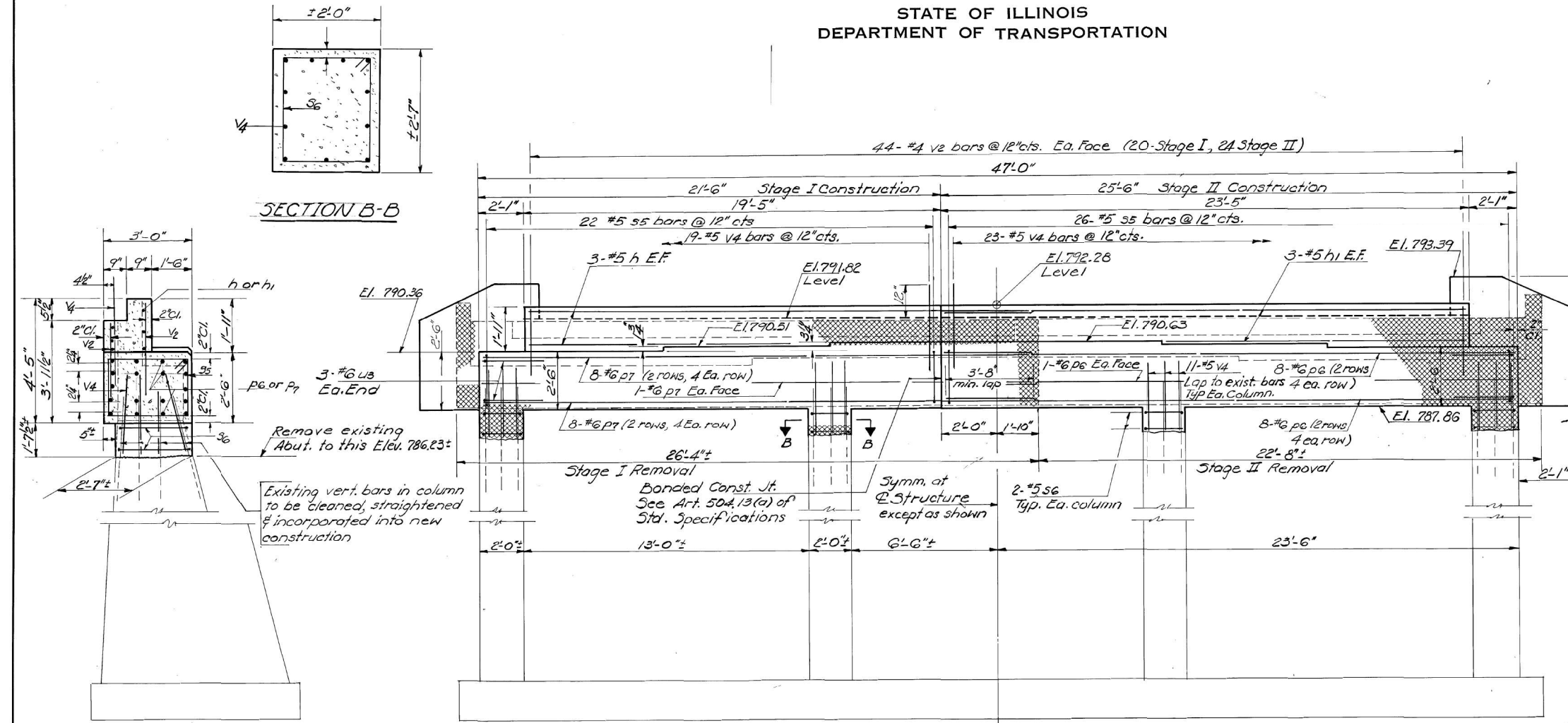
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS XI
STRUCTURE NO. 071-0001

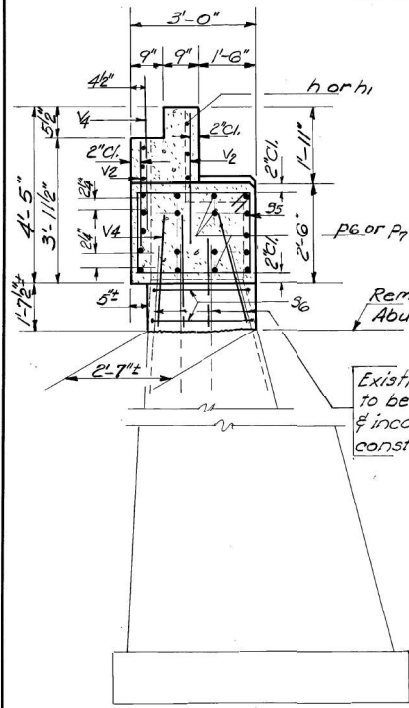
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	73
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

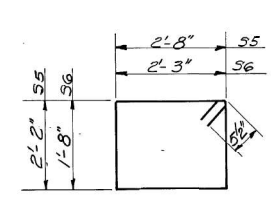
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106-19	106-19	OGLE	19	16
SHEET NO. 12 14 SHEETS				



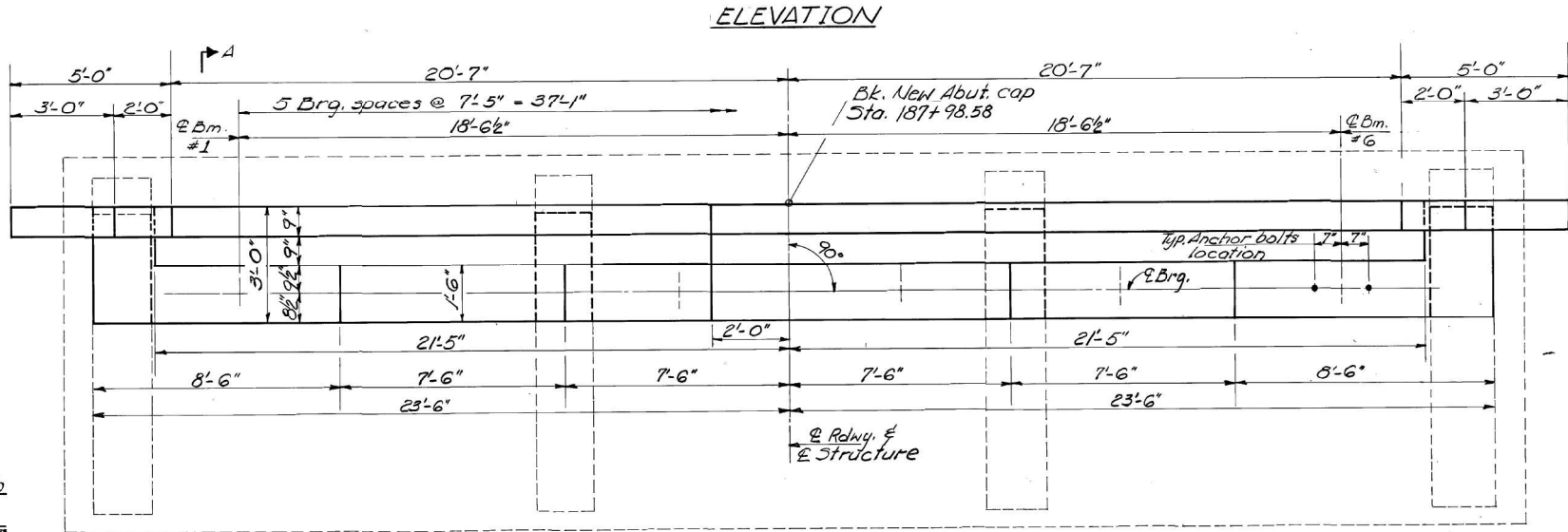
SECTION B-B



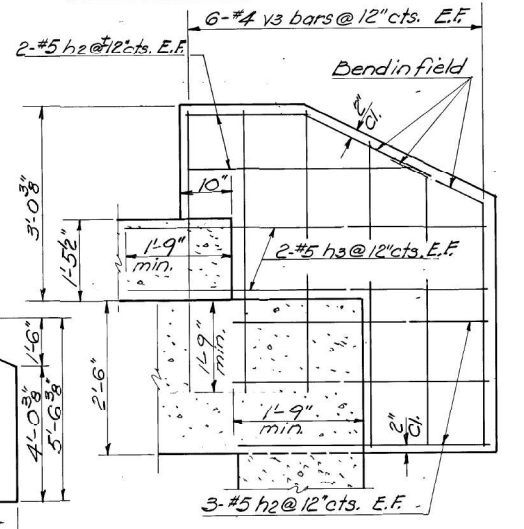
SECTION A-A



BARS S5 & S6



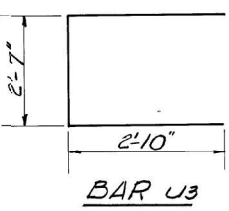
PLAN



WING REINFORCEMENT DETAIL

BILL OF MATERIAL

Bar	No	Size	Length	Shape
h	8	#5	23'-0"	—
h1	6	#5	23'-2"	—
h2	20	#5	3'-9"	—
h3	8	#5	5'-9"	—
P6	18	#6	25'-3"	—
P7	18	#6	25'-0"	—
S5	48	#5	10'-7"	□
S6	8	#5	8'-9"	□
U3	6	#6	8'-3"	□
V2	88	#4	3'-6"	—
V3	24	#4	4'-9"	—
V4	86	#5	3'-0"	—
Reinf. Bars			Pounds	3000
Concrete Removal			Cu. Yds.	14.0
Class X Concrete			Cu. Yds.	19.6



BAR U3

SOUTH ABUTMENT
SBI. RT. TO SEC. 106 V.B.R
OGLE COUNTY
STA. 186+80.31

DESIGNED *Ralph E. Anderson*
CHECKED *Joy Edwards*
DRAWN *A. Barrozo*
CHECKED *Jc*

EXAMINED *[Signature]*
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

Jan 25 1978

FILE NAME = Z:\2018\180228_FT1818\cadd\Structural\Dgn\W012\500 Line Bridge\020916E-033-ExistPlans\12.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = ctacey
DESIGNED - CPT
CHECKED - JZ
DRAWN - CPT
CHECKED - JZ

PLOT SCALE =
PLOT DATE = 7/8/21

DESIGNED - CPT
CHECKED - JZ
DRAWN - CPT
CHECKED - JZ

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

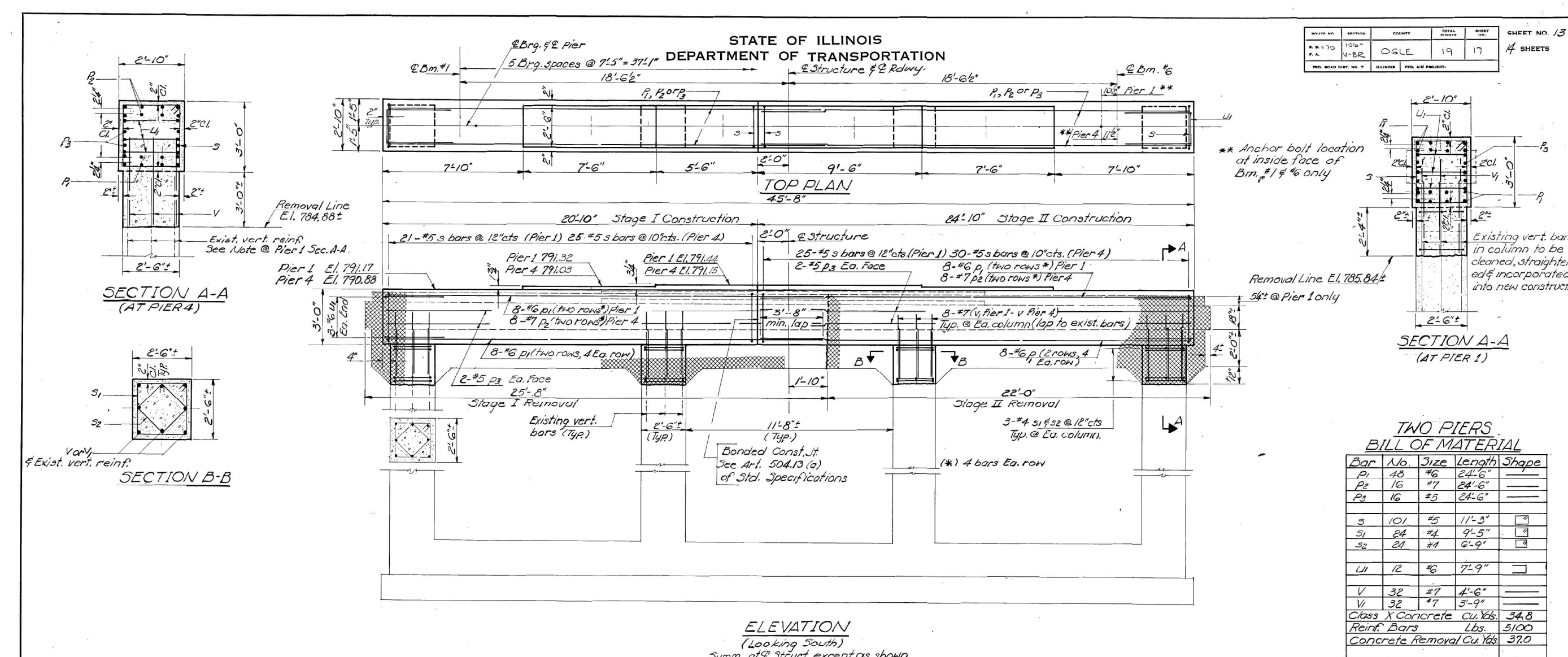
EXISTING PLANS XII
STRUCTURE NO. 071-0001

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	74
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
106	V-BR	OGLE	19	17
SHEET NO. 13				
14 SHEETS				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**TWO PIERS
BILL OF MATERIAL**

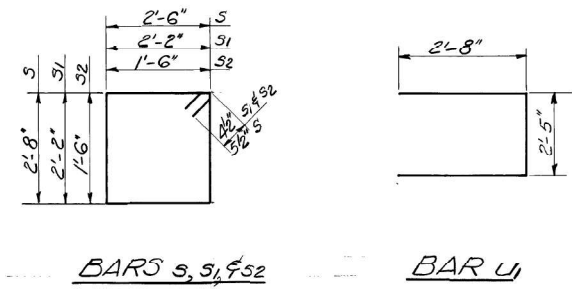
Bar	No.	Size	Length	Shape
P1	48	#6	24'-6"	—
P2	16	#7	24'-6"	—
P3	16	#5	24'-6"	—
S	101	#5	11'-3"	□
S1	24	#4	9'-5"	□
S2	24	#4	6'-9"	□
U1	12	#6	7'-9"	□
V	32	#7	4'-6"	—
W	32	#7	3'-9"	—
Class X Concrete			Cu. Yds.	34.8
Reinf. Bars			Lbs.	5100
Concrete Removal			Cu. Yds.	37.0

Notes: Crosshatched area indicates
Concrete Removal
Space reinforcement to miss
anchor bolts.
Four steps monolithically with cap.
All edges shall have 3/4" chamfers
except as noted

DESIGNED *Ralph E. Anderson*
CHECKED *John Edwards*
DRAWN *A. Barroza*
CHECKED *JL*

EXAMINED *[Signature]*
PASSED
APPROVED
DIRECTOR OF HIGHWAY

Jan 25, 1978



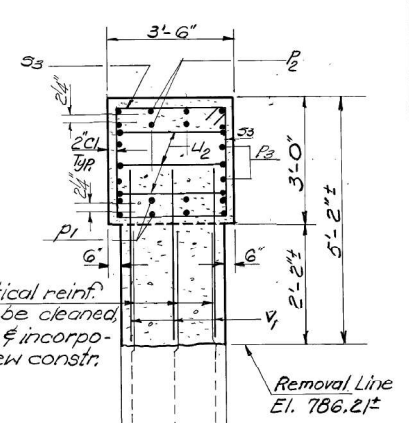
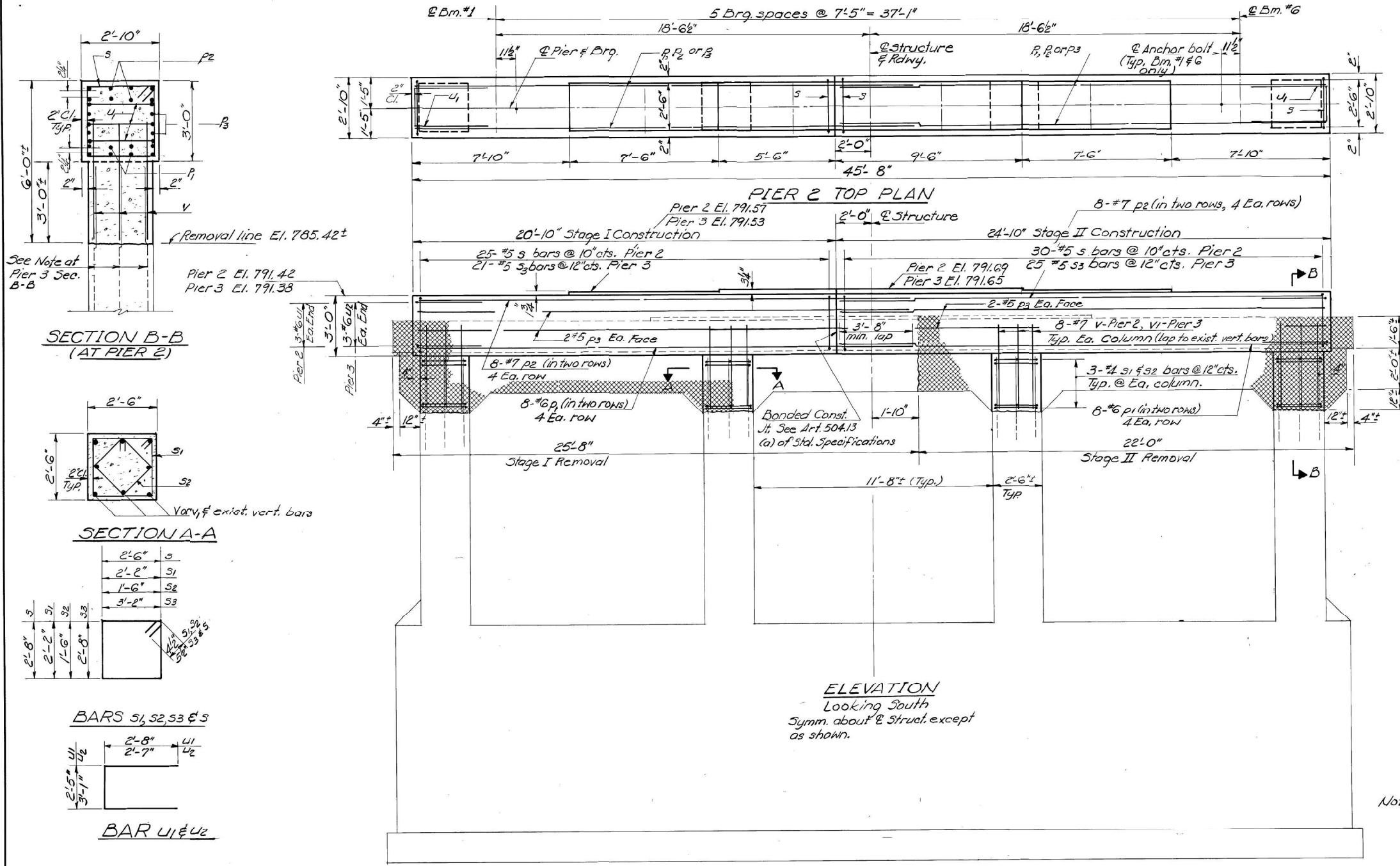
FOR INFORMATION ONLY

PIERS 1 & 4
S.B.I. RT. 70 SEC. 106 VBR
OGLE COUNTY
STA. 186+80.31

FILE NAME = Z:\2018\180228_FT1818\cadd\Structural\Dgn\W012\500 Line Bridge\02091616-034-ExistPlans\13.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 70	106-V-BR	OGLE	19	18
SHEET NO. 14				
14 SHEETS				

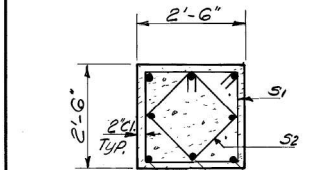


SECTION B-B
(AT PIER 3)

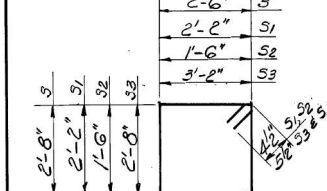
TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P1	48	#6	24'-6"	—
P2	16	#7	24'-6"	—
P3	16	#5	24'-6"	—
S	55	#5	11'-3"	□
S1	24	#4	9'-5"	□
S2	24	#4	6'-9"	□
S3	46	#5	12'-7"	□
U1	6	#6	7'-9"	□
U2	6	#6	8'-3"	□
V	32	#7	4'-6"	—
V1	32	#7	3'-9"	—
Class X Concrete Cu.Yds.				38.2
Reinforcement Bars Lbs.				5170
Concrete Removal (Cu.Yds.)				39.0

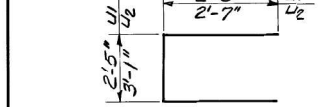
SECTION B-B
(AT PIER 2)



SECTION A-A



BARS S1, S2, S3 & S



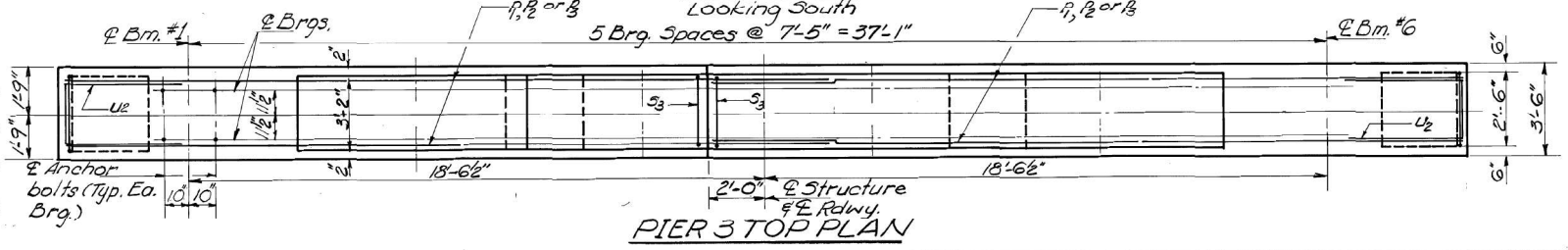
BAR U1 & U2

ELEVATION
Looking South
Symm. about C Structure except as shown.

ELEVATION
Looking South
5 Brg. Spaces @ 7'-5" = 37'-1"

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

Jan 25 1978
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DIRECTOR OF HIGHWAYS



PIER 3 TOP PLAN

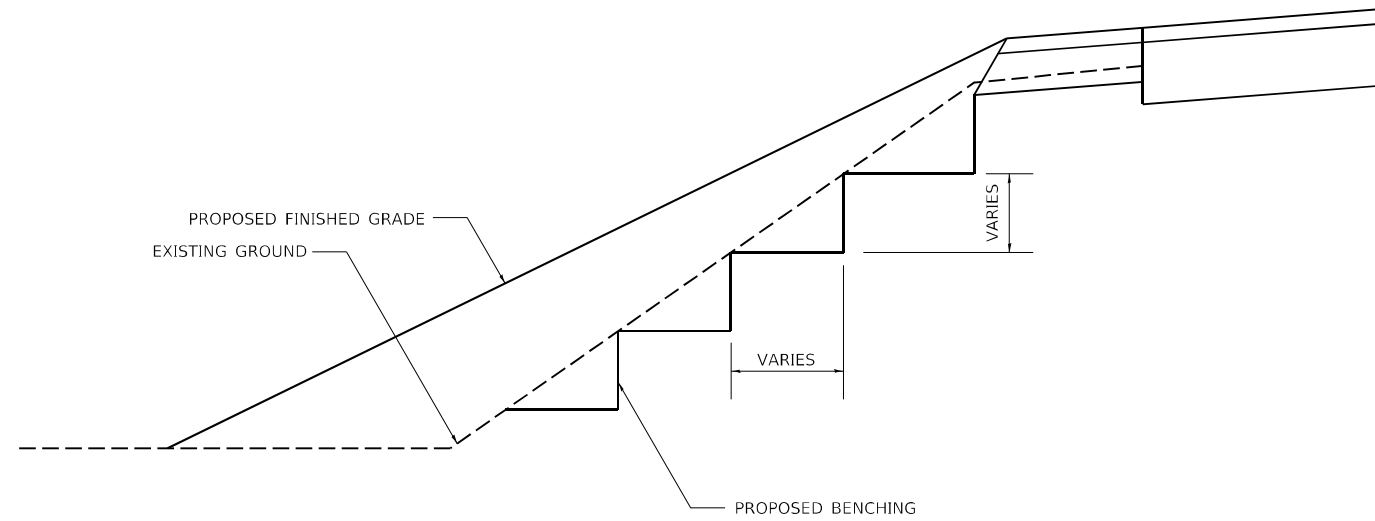
Notes: Space reinforcement to miss anchor bolts. Four steps monolithically with cap. Crosshatched area indicates concrete removal. All edges shall have standard 3/4" chamfers except as noted.

PIERS 2 & 3
S.B.I. RTE. 70 SEC. 106 V.B.R
OGLE COUNTY
STA. 186+80.31

FOR INFORMATION ONLY

FILE NAME: Z:\2018\180228_P1B18\cadd\Structural\Dgn\W012\500 Line Bridge\0209\6E-035-ExistP1.lens14.dgn

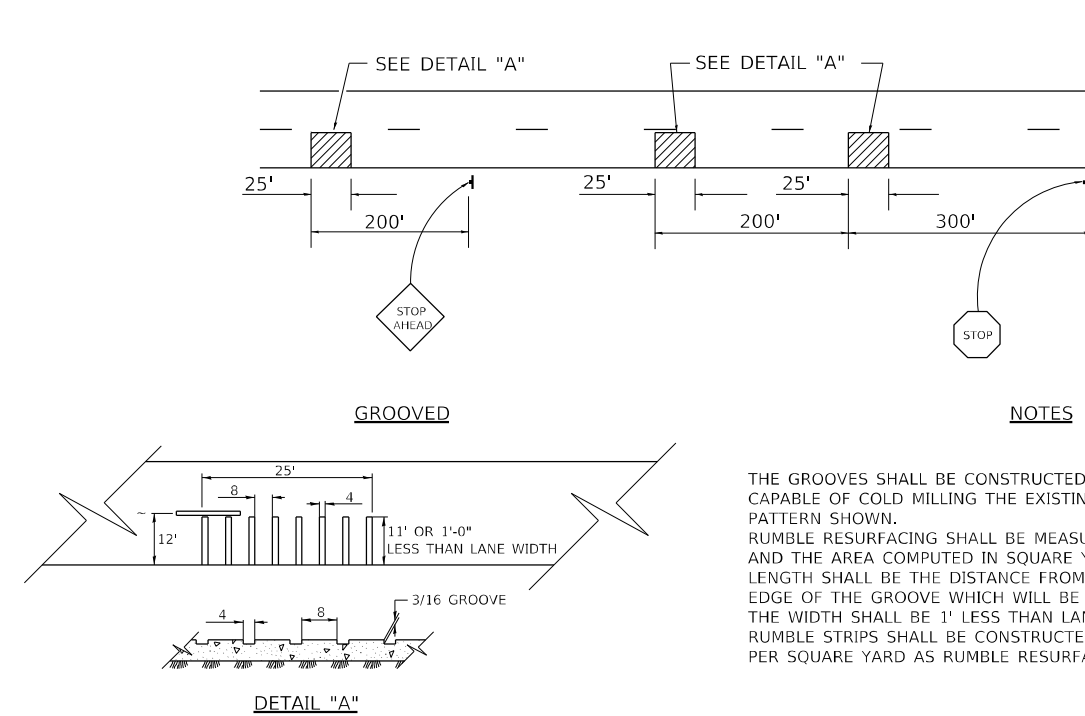
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

RUMBLE RESURFACING



REVISED - 10-05-11

NOTES

THE GROOVES SHALL BE CONSTRUCTED WITH A MILLING MACHINE CAPABLE OF COLD MILLING THE EXISTING SURFACE IN THE PATTERN SHOWN.

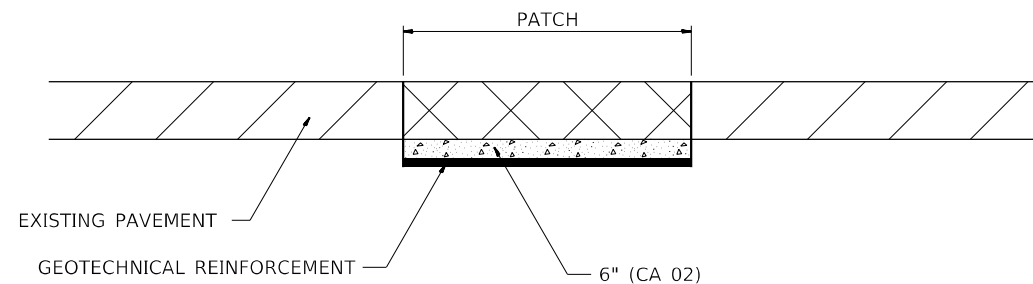
RUMBLE RESURFACING SHALL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. THE LENGTH SHALL BE THE DISTANCE FROM OUTSIDE EDGE TO OUTSIDE EDGE OF THE GROOVE WHICH WILL BE APPROXIMATELY 25'. THE WIDTH SHALL BE 1' LESS THAN LANE WIDTH.

RUMBLE STRIPS SHALL BE CONSTRUCTED AS SHOWN AND PAID FOR PER SQUARE YARD AS RUMBLE RESURFACING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

RUMBLE RESURFACING 91.4

SUBGRADE REPLACEMENT



NOTES:

THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

THE GEO TECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEO TECHNICAL REINFORCEMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 3-13-13

SUBGRADE REPLACEMENT 97.4

FILE NAME = Z:\2010\160240_PTB1811\cadd\Civil\p\W03-4\SHRD209616-sh-c246calls_02.dgn

USER NAME = ssunderesen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = #SCALE#	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

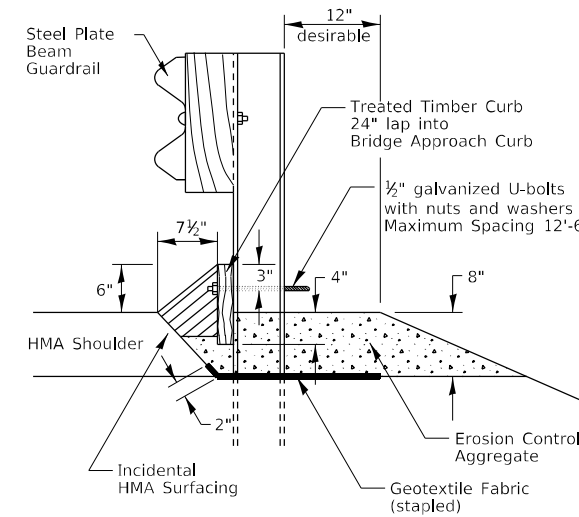
SCALE: SHEET NO. 2 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	78
CONTRACT NO. 64L75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GUARDRAIL EROSION CONTROL TREATMENTS

GENERAL NOTES: EROSION CONTROL CURB

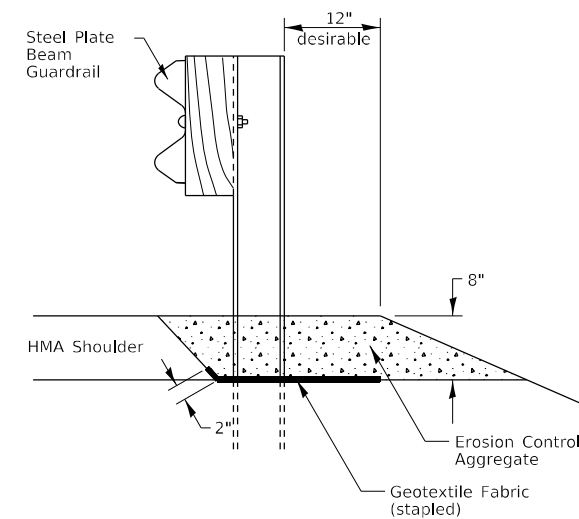
1. This work shall consist of grading as needed, installing hardware, 2" x 10" treated timber boards and incidental hot-mix asphalt surfacing in front of steel plate beam guardrail in accordance with plan details.
2. Timber shall be treated in accordance with Article 1007.12 Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu.ft.
3. This work will be paid for at the contract unit price per foot for EROSION CONTROL CURB (pay code Z0020800).



TYPICAL SECTION
WITH EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of furnishing and installing, Geotextile Fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile Fabric shall be placed with a 12" minimum overlay. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and aggregate are in place. If the guardrail is placed after the Geotextile Fabric and aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01 of the Standard Specifications.
 - B. The aggregate shall meet class D quality requirements as outlined in Article 1004.01 of the Standard Specifications with the following exceptions:
 - 1) Revise the maximum allowable percentage of weighted average loss when the material is subjected to 5 cycles of the Sodium Sulfate Soundness Test from 25% as shown under class D of the quality chart in Article 1004.01(b) of the Standard Specifications to 40%.
 - 2) Revise the maximum allowable percentage of wear as determined by the Los Angeles Abrasion Method from 45% as shown under as shown under class D of the quality chart in Article 1004.01(b) of the Standard Specifications to 65%.
 - 3) The sum of the percentage of weighted average loss when the material is subjected to 5 cycles of the Sodium Sulfate Soundness Test; and the percentage of wear as determined by the Los Angeles Abrasion Method, shall not exceed 95%.
 - C. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.
7. This work will be paid for at the contract unit price per ton for GUARDRAIL AGGREGATE EROSION CONTROL (pay code Z0001002).



TYPICAL SECTION
WITHOUT EROSION CONTROL CURB

GUARDRAIL EROSION CONTROL TREATMENTS 35.2

FILE NAME = Z:\2016\160240_PTB\1611\cadd\Civil\Dgn\W03-4_SRD\2091616-sh-c246.cals_03.dgn

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	DRAWN -	REVISED - 10-14-11
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

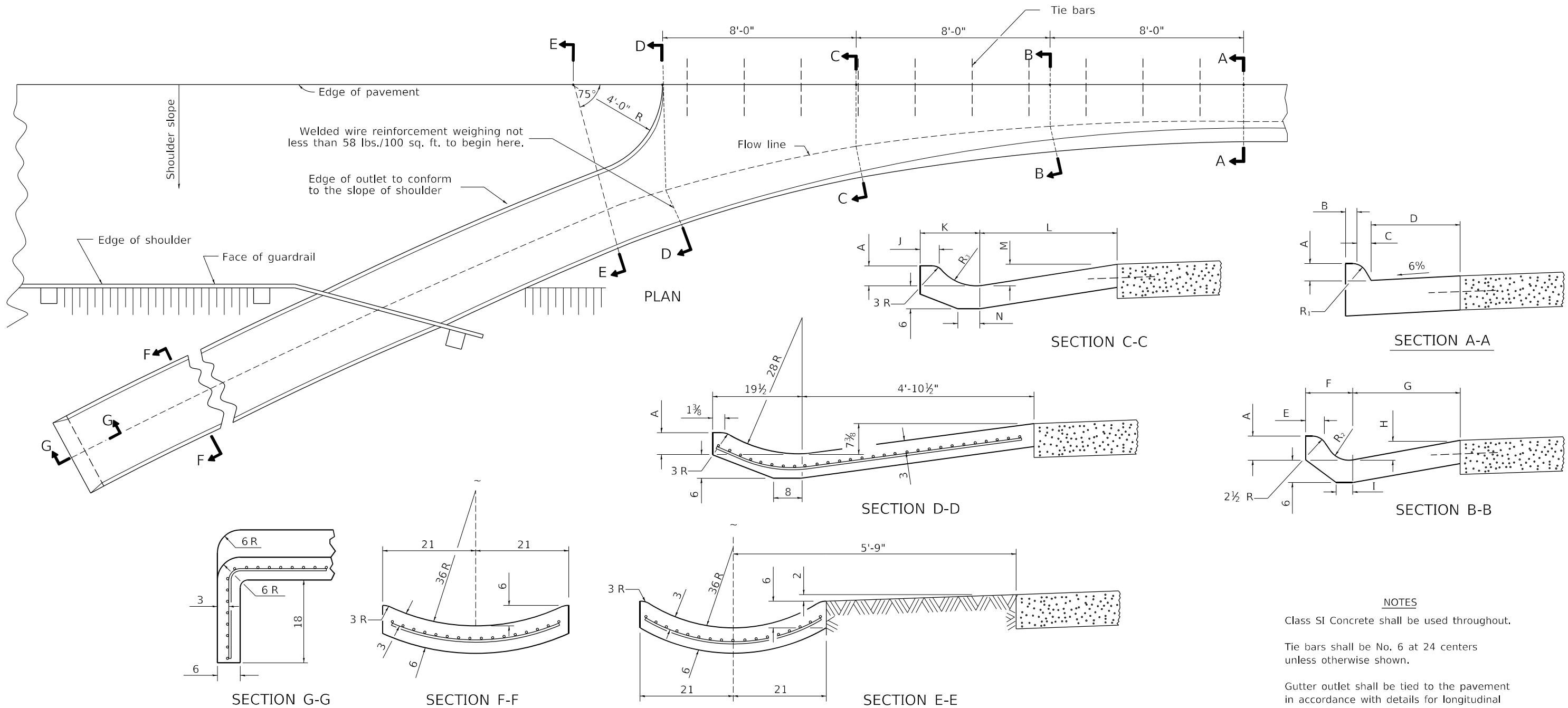
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 3 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	79
CONTRACT NO. 64L75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STANDARD OUTLET FOR CURB & GUTTER



NOTES

Class SI Concrete shall be used throughout.

Tie bars shall be No. 6 at 24 centers unless otherwise shown.

Gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

If the average grade of pavement for the distance from Section A-A to D-D exceeds 2%, this distance shall be increased 6' for each 1% increase in grade.

When curb and gutter is constructed adjacent to flexible pavement, a 1 expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise shown.

QUANTITY

For Section F-F = 0.069 cu. yds. concrete per ft.

TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS																CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 9 PAVT (CU YDS)	CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 10 PAVT (CU YDS)	
	SECTION A-A				SECTION B-B				SECTION C-C				R ₁	R ₂	R ₃				
	A	B	C	D	E	F	G	H	I	J	K	L				M			N
B-6.12	6	6	1	12	3	7 ⁷ / ₈	13 ³ / ₄	2 ³ / ₄	4	3	12 ⁷ / ₈	26 ¹ / ₂	5	6	1	2	8	1.87	1.89
B-6.18	6	6	1	18	3 ³ / ₄	9 ¹ / ₄	22	3	5	3 ¹ / ₂	14 ¹ / ₄	28 ³ / ₄	5 ⁵ / ₈	5 ¹ / ₂	1	4	10	2.18	2.20
M-4.06	4	3	4	6	3	9 ¹ / ₂	10 ¹ / ₂	2	4	3	13	25	3	6	3	5	11	1.78	1.79
M-4.12	4	3	4	12	3 ³ / ₈	9 ³ / ₄	13 ³ / ₄	2 ³ / ₄	6	3	13 ¹ / ₂	26 ¹ / ₂	5	6	3	5	9	1.89	1.91
M-4.18	4	3	4	18	3 ¹ / ₂	9 ¹ / ₄	22	3	5	3 ¹ / ₂	14 ¹ / ₄	28 ³ / ₄	5 ⁵ / ₈	5 ¹ / ₂	3	4	10	2.11	2.13
M-4.24	4	3	4	24	5	11 ¹ / ₂	26	3 ³ / ₈	4	3 ³ / ₄	15	38	5 ⁵ / ₈	5	3	6	12	2.34	2.37
M-6.06	6	2	6	6	2 ¹ / ₄	9 ³ / ₄	10 ¹ / ₂	2	4	2 ¹ / ₂	13	25	3	6	2	5	10	1.84	1.86
M-6.12	6	2	6	12	3 ¹ / ₂	8 ¹ / ₈	13 ³ / ₄	2 ³ / ₄	6	3	13 ¹ / ₂	26 ¹ / ₂	5	6	2	2	9	1.96	1.98
M-6.18	6	2	6	18	3 ¹ / ₂	9 ¹ / ₈	22	3	5	3 ¹ / ₂	14 ¹ / ₄	28 ³ / ₄	5 ⁵ / ₈	5 ¹ / ₂	2	4	10	2.18	2.20
M-6.24	6	2	6	24	5 ⁵ / ₈	11	26	3 ³ / ₈	4	3 ³ / ₄	17 ³ / ₄	38	5 ⁵ / ₈	5	2	3 ³ / ₄	16	2.46	2.49

STANDARD OUTLET FOR CURB & GUTTER 5.1

FILE NAME = Z:\2016\160240_P1B1B11\cadd\CurbGutter\WO3-4\SHD209616-16-16-0246calls_04.dgn

USER NAME = ssundaresan	DESIGNED -	REvised - 1-05-16
	DRAWN -	REvised - 11-12-14
PLOT SCALE = *SCALE*	CHECKED -	REvised -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REvised -

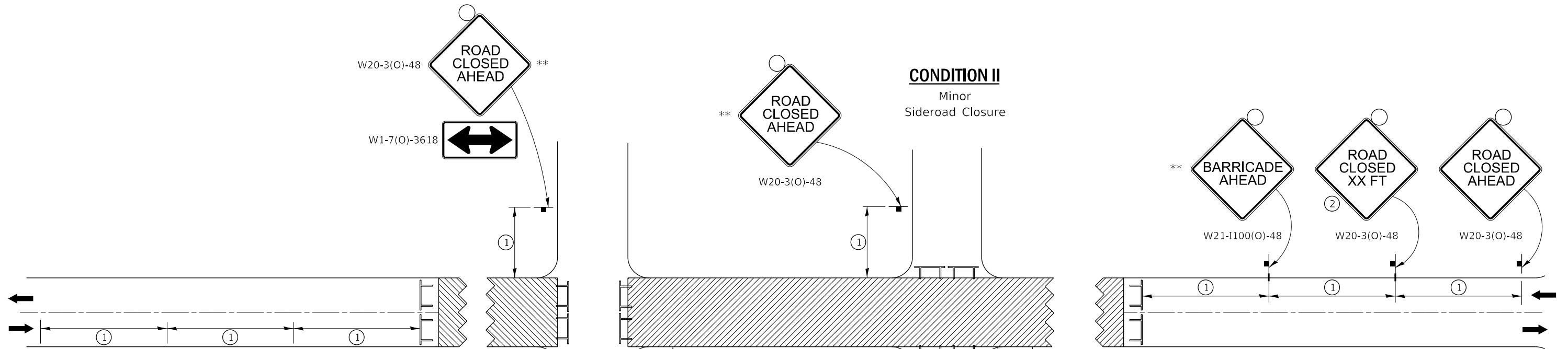
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

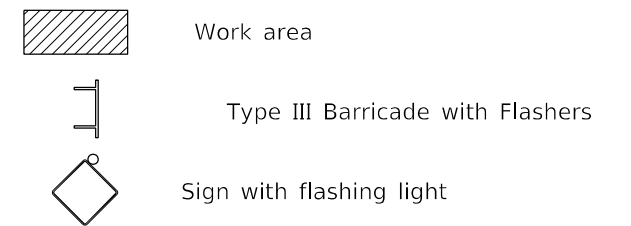
SCALE: SHEET NO. 4 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	80
CONTRACT NO. 64L75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS



GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

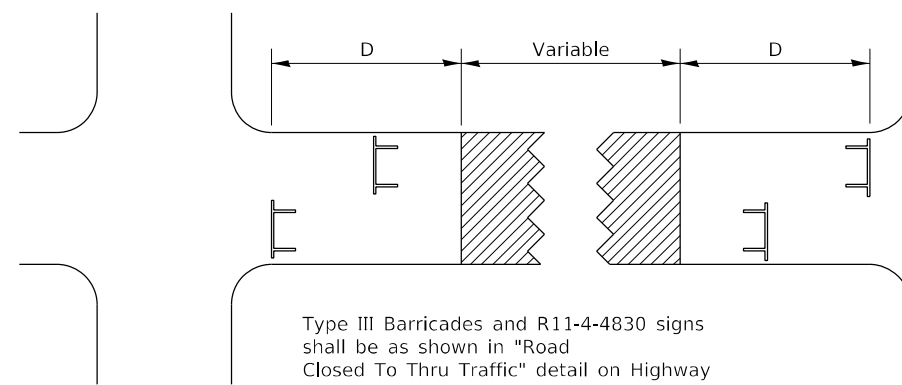
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

TRAFFIC CONTROL FOR ROAD CLOSURE 40.1

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME = Z:\2016\100240_P1B1B11\cadd\Civil\Dgn\W03-4_Sign\20160916-16-16-02246cals_05.dgn

USER NAME = ssunderesen	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

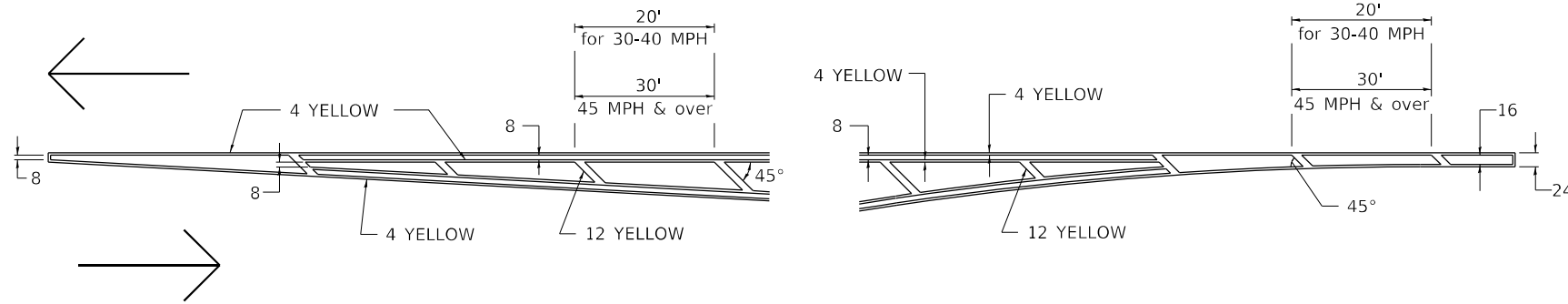
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 5 OF 8 SHEETS STA. TO STA.

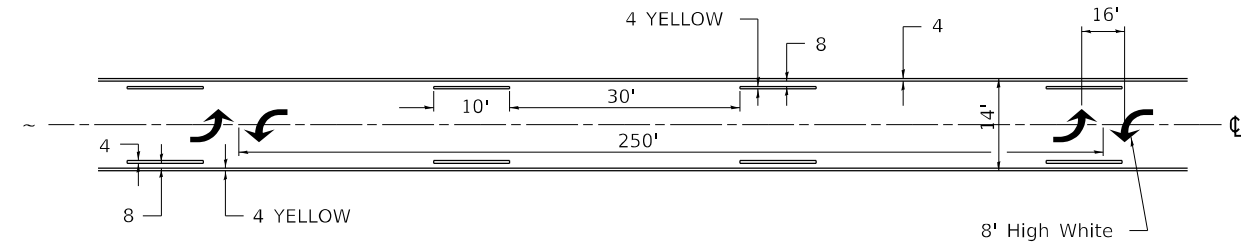
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	81
CONTRACT NO. 64L75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

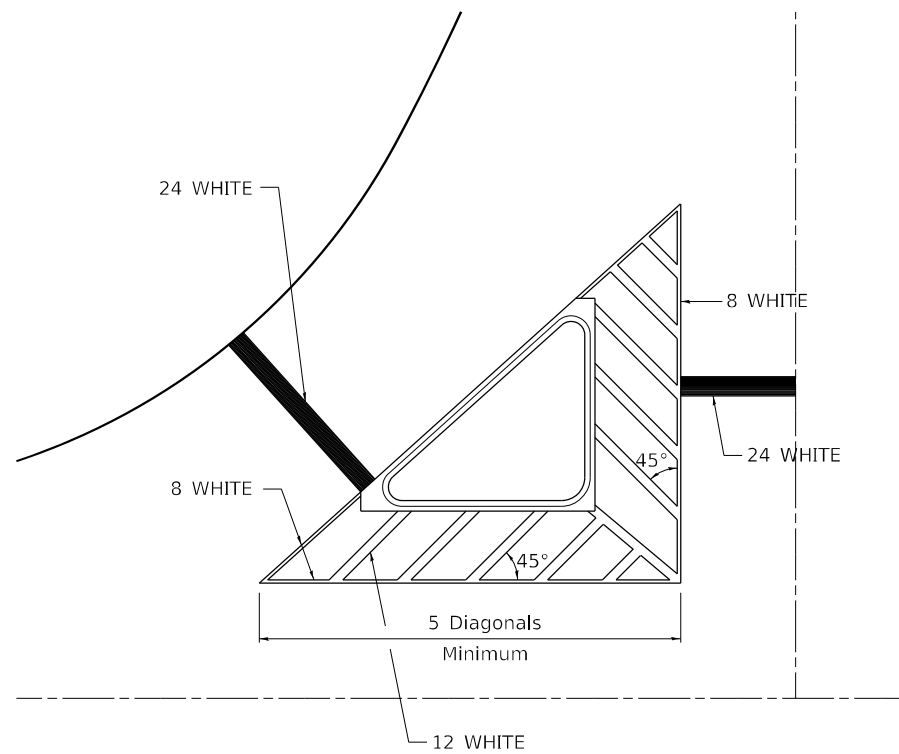


MEDIAN PAVEMENT MARKING



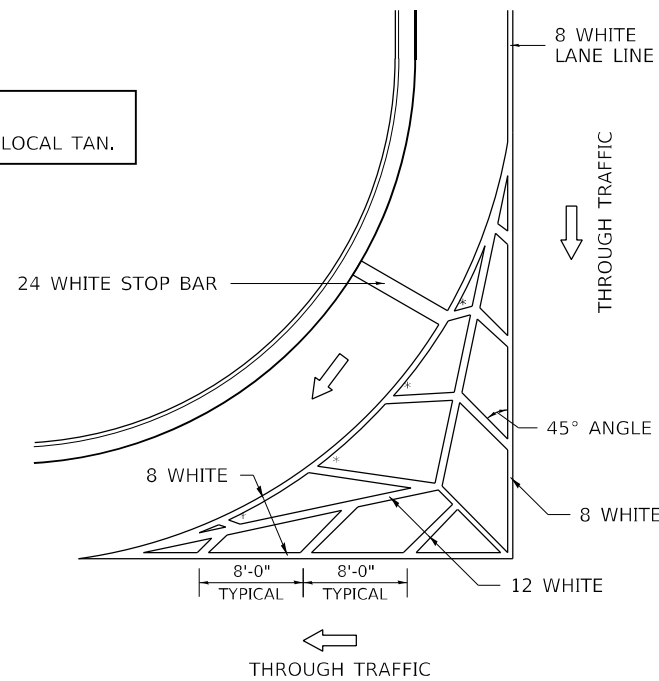
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



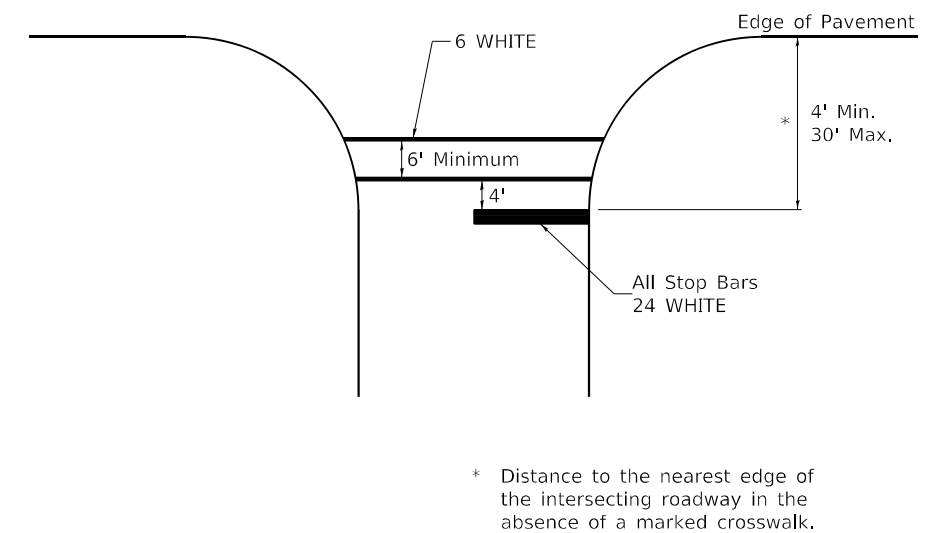
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1

FILE NAME = Z:\2010\160240_PTB1811\cadd\Civil\Dgn\W03-4_SRD\2091616-sh-c246cals_06.dgn

USER NAME = ssunderesen	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

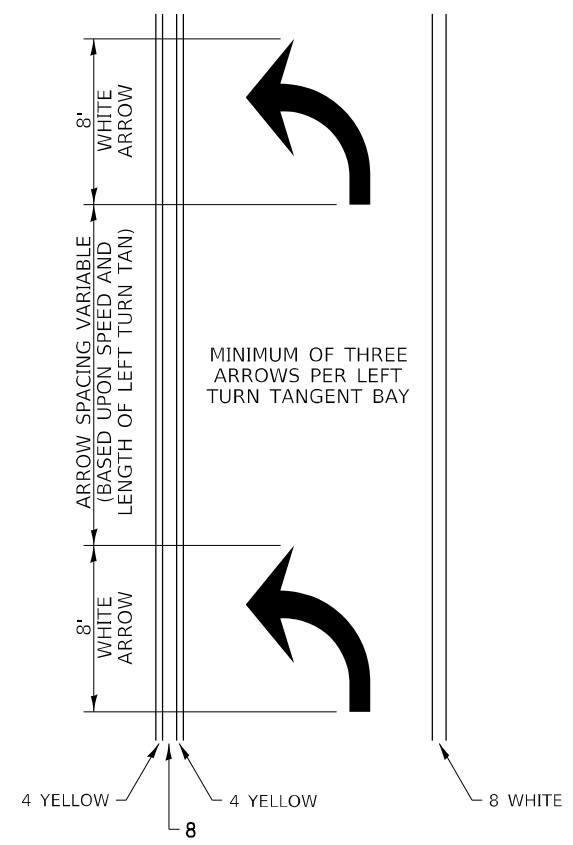
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 6 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	82
CONTRACT NO. 64L75				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

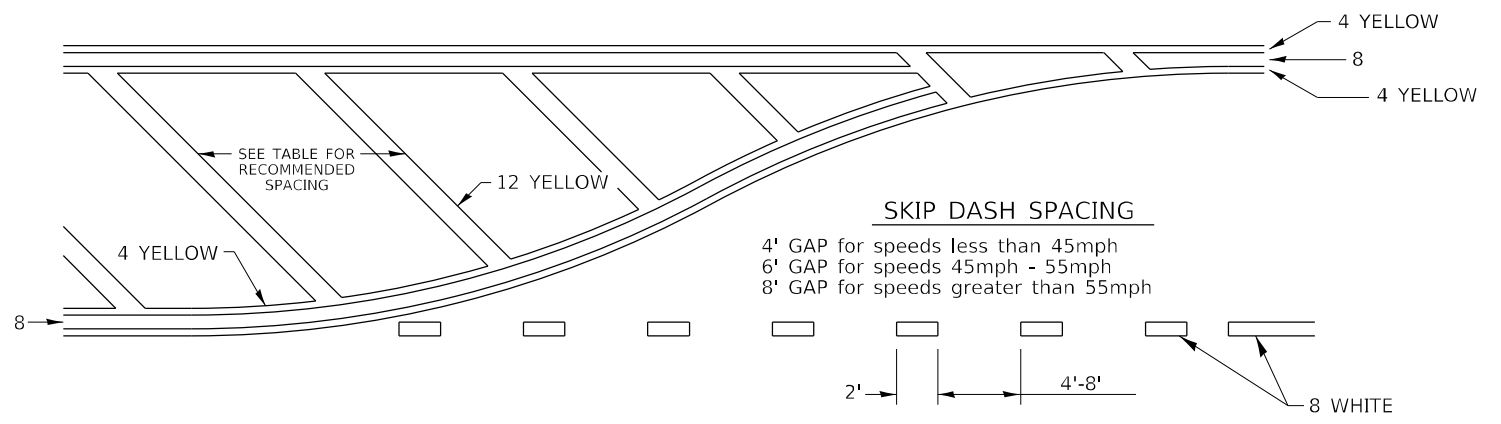
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

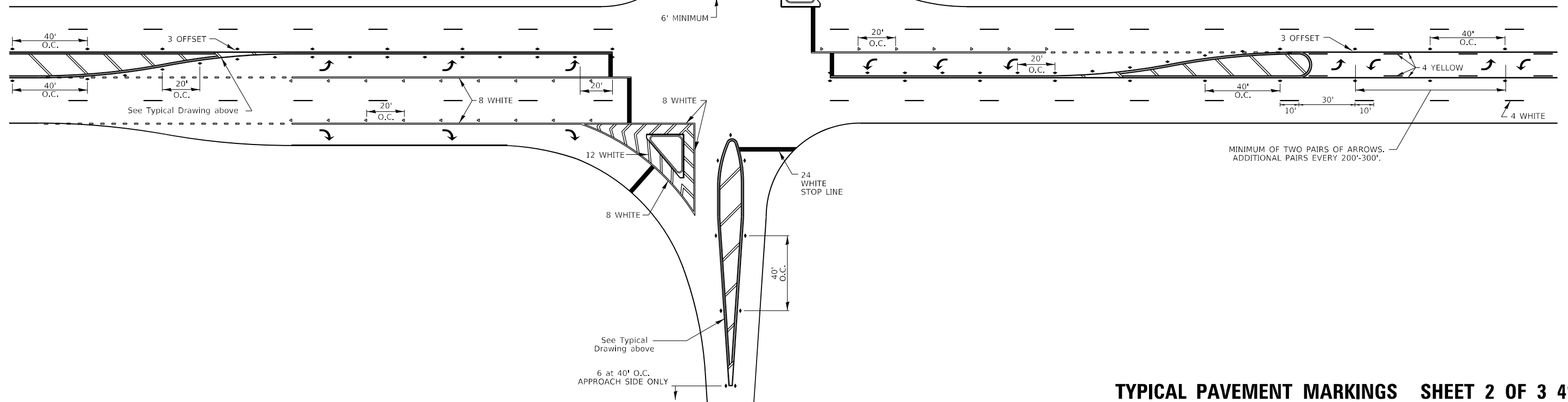
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

FILE NAME = Z:\2016\160240_PTB1811\cadd\Civil\Dgn\WO3-4\SHRD209616-sh-c246calls_07.dgn

USER NAME = ssundareson	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 3-05-12
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

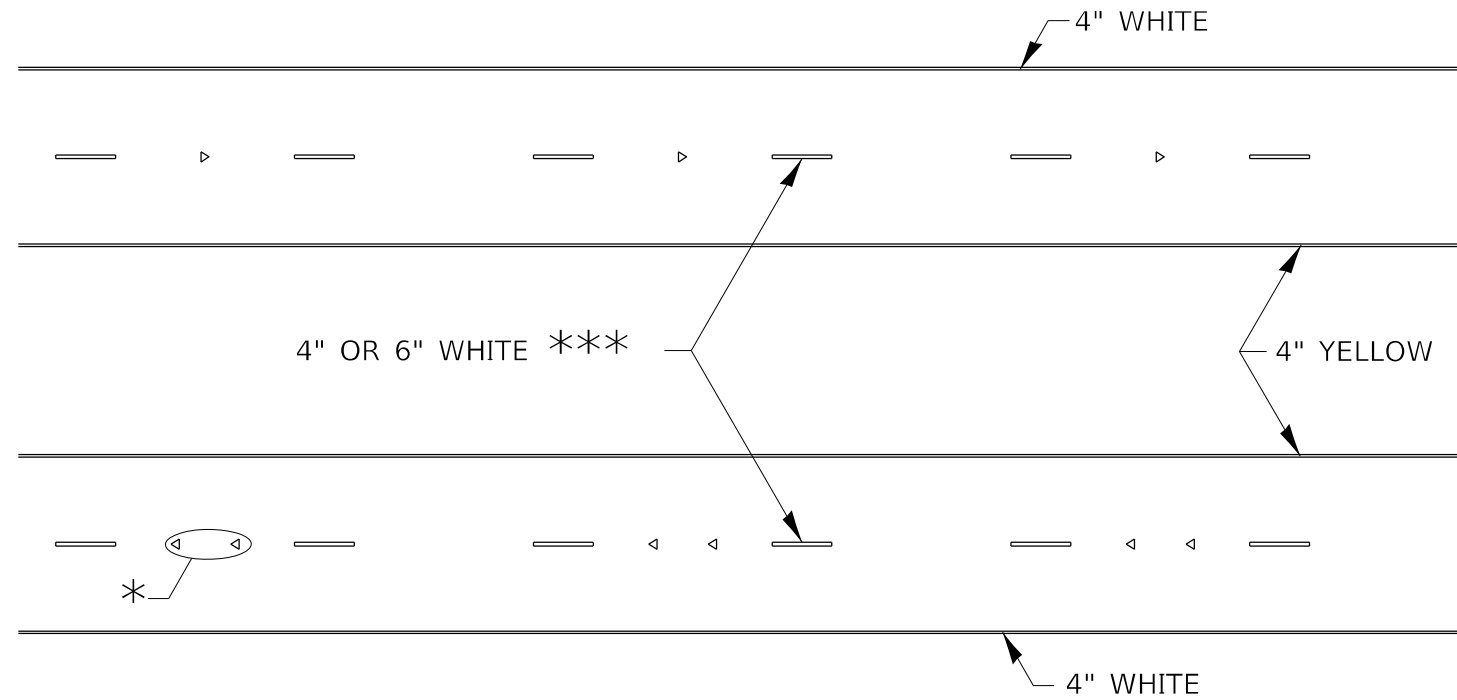
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 7 OF 8 SHEETS STA. TO STA.

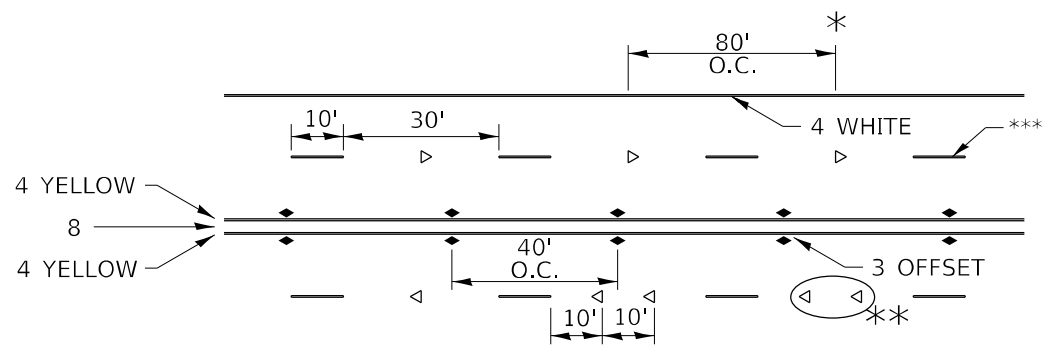
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	83
CONTRACT NO. 64L75				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

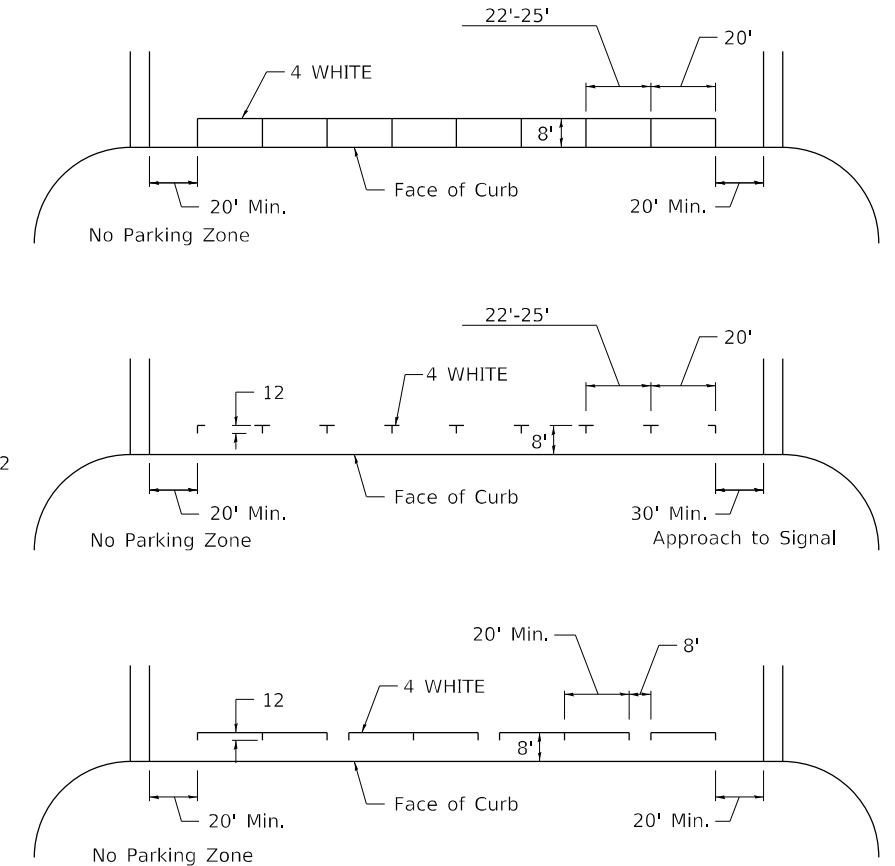
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

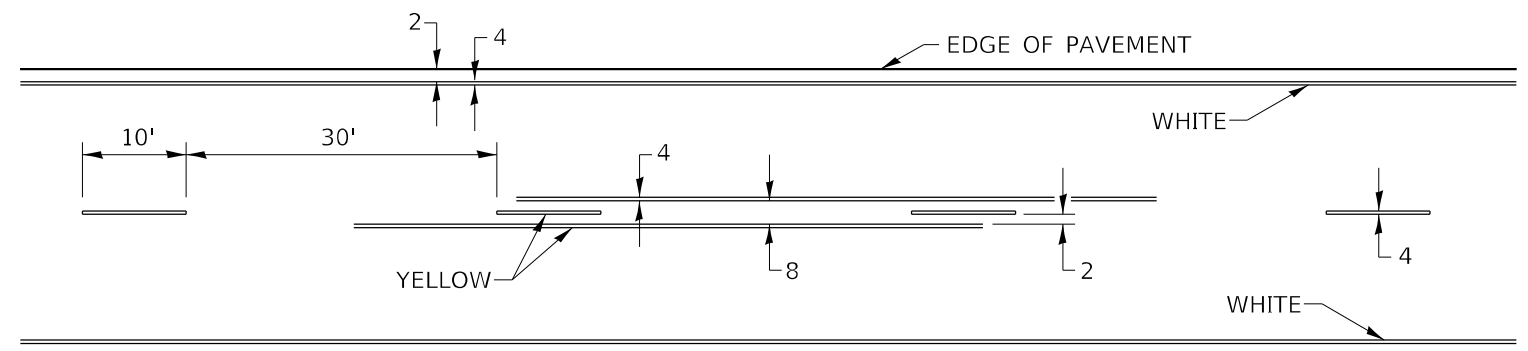
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

FILE NAME = Z:\2010\160240_PTB1811\cadd\Civil\p\p\WO3-4\SHRD209616-sh-c246cals_08.dgn

USER NAME = ssunderesen	DESIGNED -	REVISED - 6-27-14
	DRAWN -	REVISED - 8-27-13
PLOT SCALE = *SCALE*	CHECKED -	REVISED - 11-28-12
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

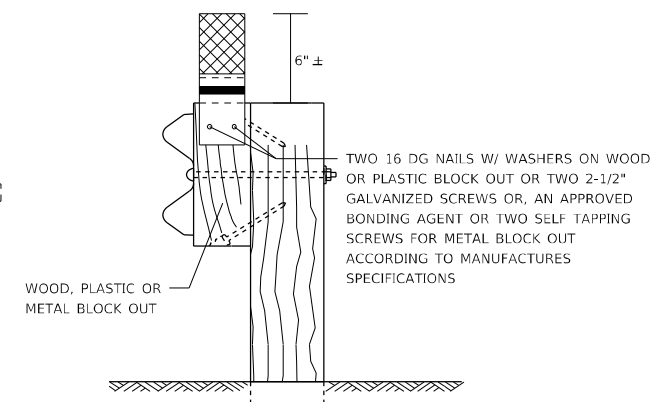
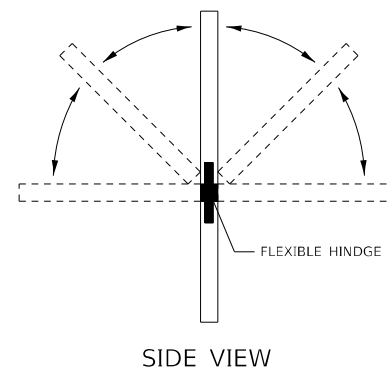
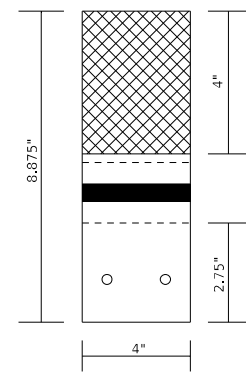
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 8 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	84
CONTRACT NO. 64L75				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GUARDRAIL REFLECTORS, TYPE C (SPECIAL)



REFLECTORS MAY BE MOUNTED DIRECTLY TO METAL, WOOD OR PLASTIC BLOCK OUTS.

IF MOUNTED ON WOODEN OR PLASTIC BLOCK OUT, THE REFLECTORS SHALL BE MOUNTED USING TWO 16 DG NAILS AND TWO 3/16" WASHERS OR TWO 2-1/2" GALVANIZED SCREWS WITH WASHERS.

IF MOUNTED ON METAL BLOCK OUT, THE REFLECTORS SHALL BE MOUNTED USING AN APPROVED BONDING AGENT PER THE MANUFACTURE'S SPECIFICATIONS, OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

MOUNTED ON A GUARDRAIL BLOCK OUT

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS/NAILS, WASHERS OR BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS SHALL BE SINGLE SIDED.

SHEETING COLOR SHALL BE CALLED OUT IN THE PLANS.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

Z:\2016\160240_P1B1B11\cadd\Civil\Dgn\WO3-4\SHNDZ09616-sh-c246calls_09.dgn

USER NAME = ssunderesen	DESIGNED -	REVISED - 6-21-21
	DRAWN -	REVISED -
PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = 6/25/2021	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

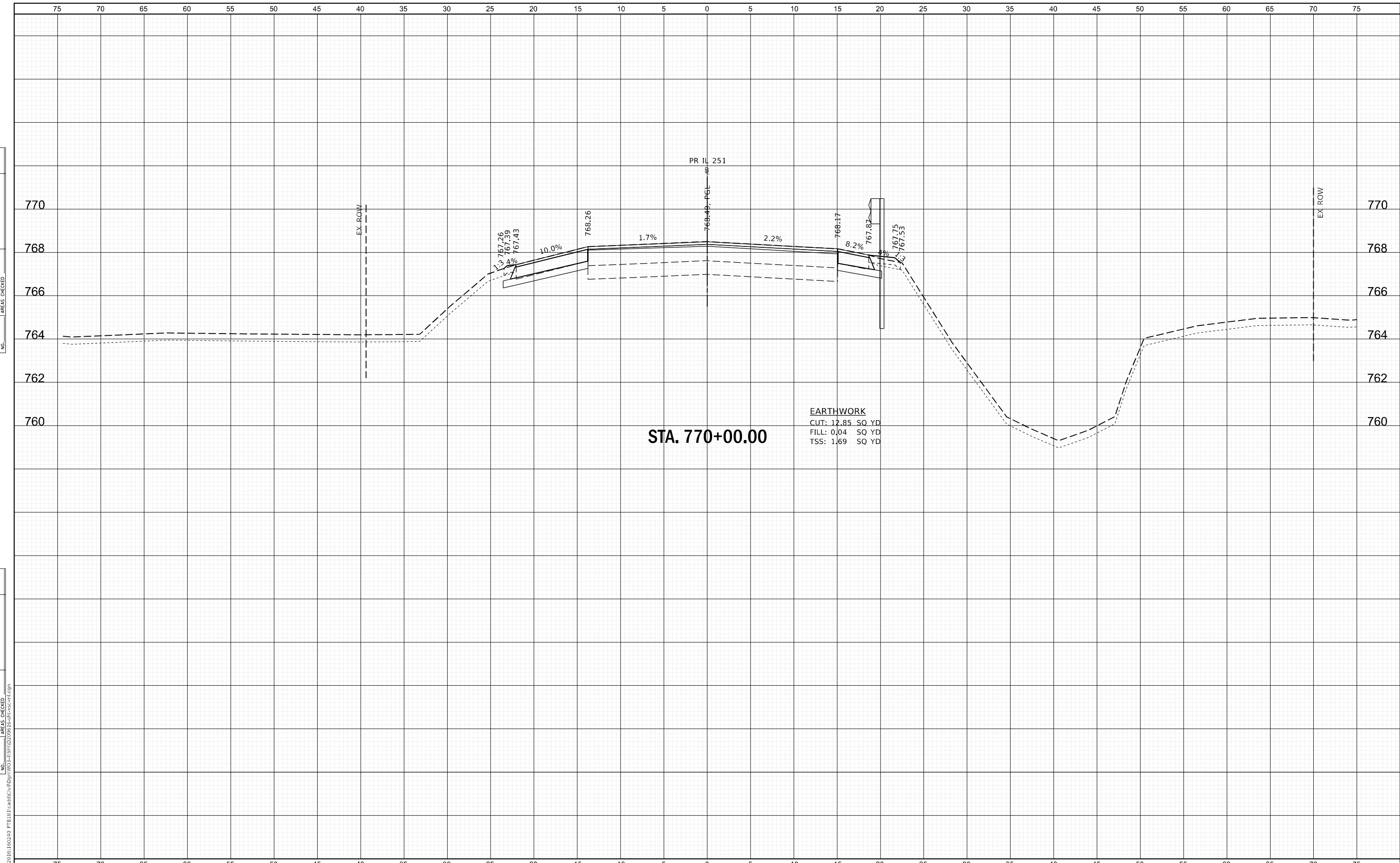
REGION 2 / DISTRICT 2 STANDARD

SCALE: 1"=1" SHEET NO. 8 OF 8 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	85
CONTRACT NO. 64L75				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED
	AREAS CHECKED



STA. 770+00.00

EARTHWORK
 CUT: 12.85 SQ YD
 FILL: 0.04 SQ YD
 TSS: 1.69 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssunaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

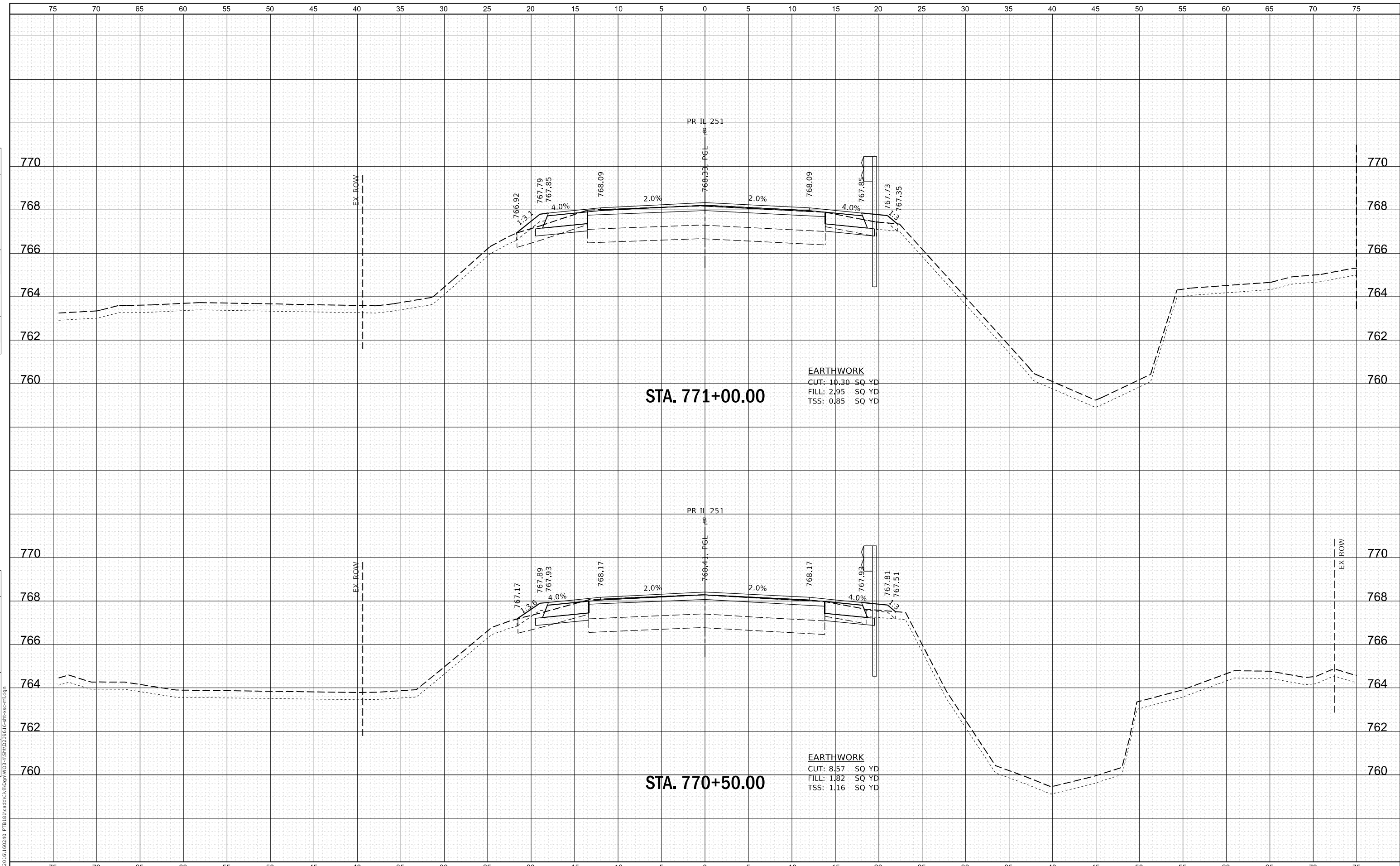
SCALE: H:5 V:2 SHEET 1 OF 22 SHEETS STA. 769+50.00 TO STA. 770+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	86
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

FILE NAME = Z:\2020\100240_PTB181\Cad\Civil\Drawings\103-VIS\10240-1015-CP-CROSS-1001.dwg

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
NO.	



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssumgaresan	DESIGNED	- KAC	REVISED	-
		DRAWN	- VLM	REVISED	-
PLOT SCALE	= 1:10	CHECKED	- YOO	REVISED	-
PLOT DATE	= 6/25/2021	DATE	- 6/23/21	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

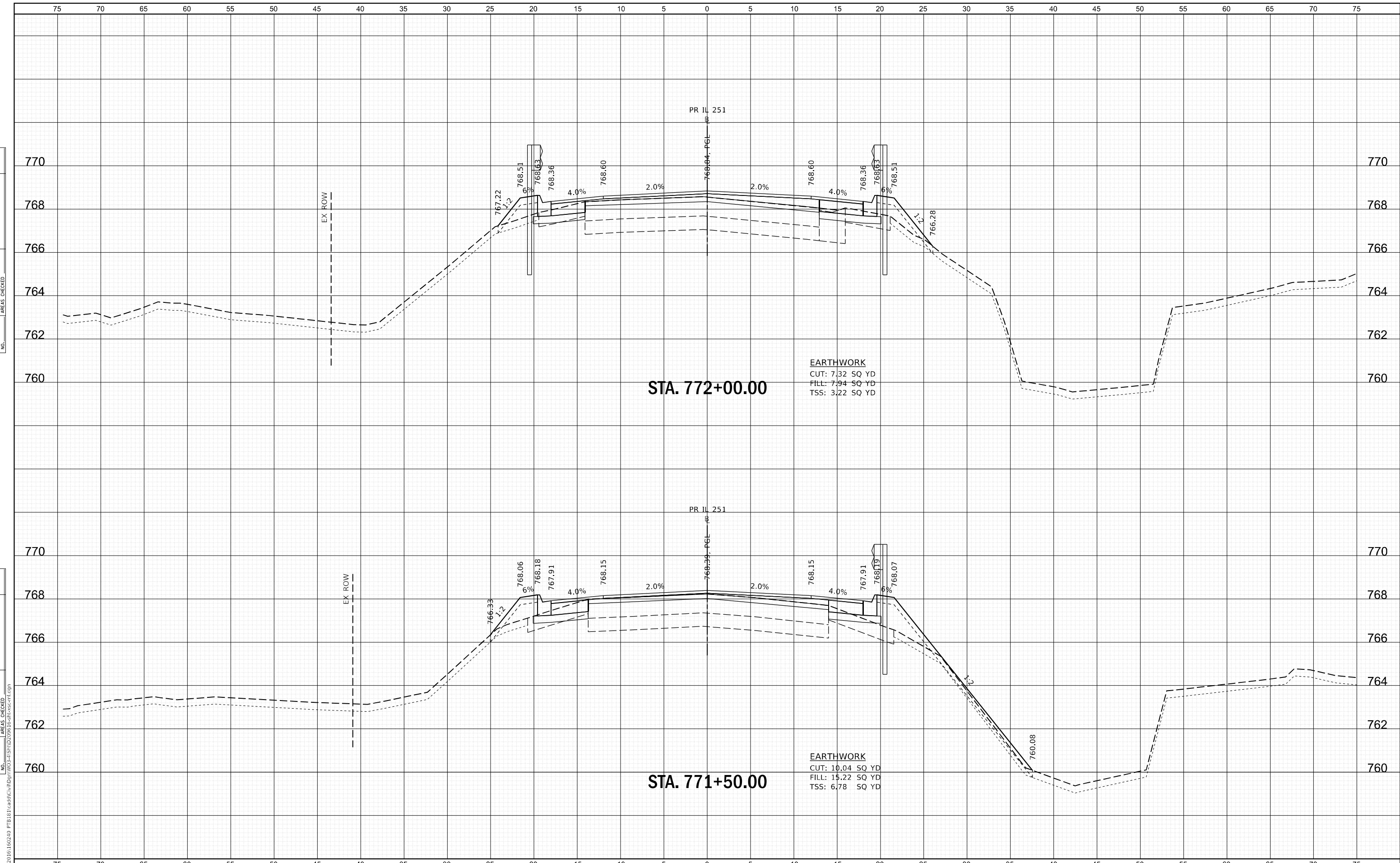
CROSS SECTIONS
IL 251 OVER SOO LINE RAILROAD

SCALE: H:5 V:2 SHEET 2 OF 22 SHEETS STA. 770+50.00 TO STA. 771+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	87
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssundaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
PLOT SCALE =	1:10	CHECKED -	YOO	REVISED -	
PLOT DATE =	6/25/2021	DATE -	6/23/21	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

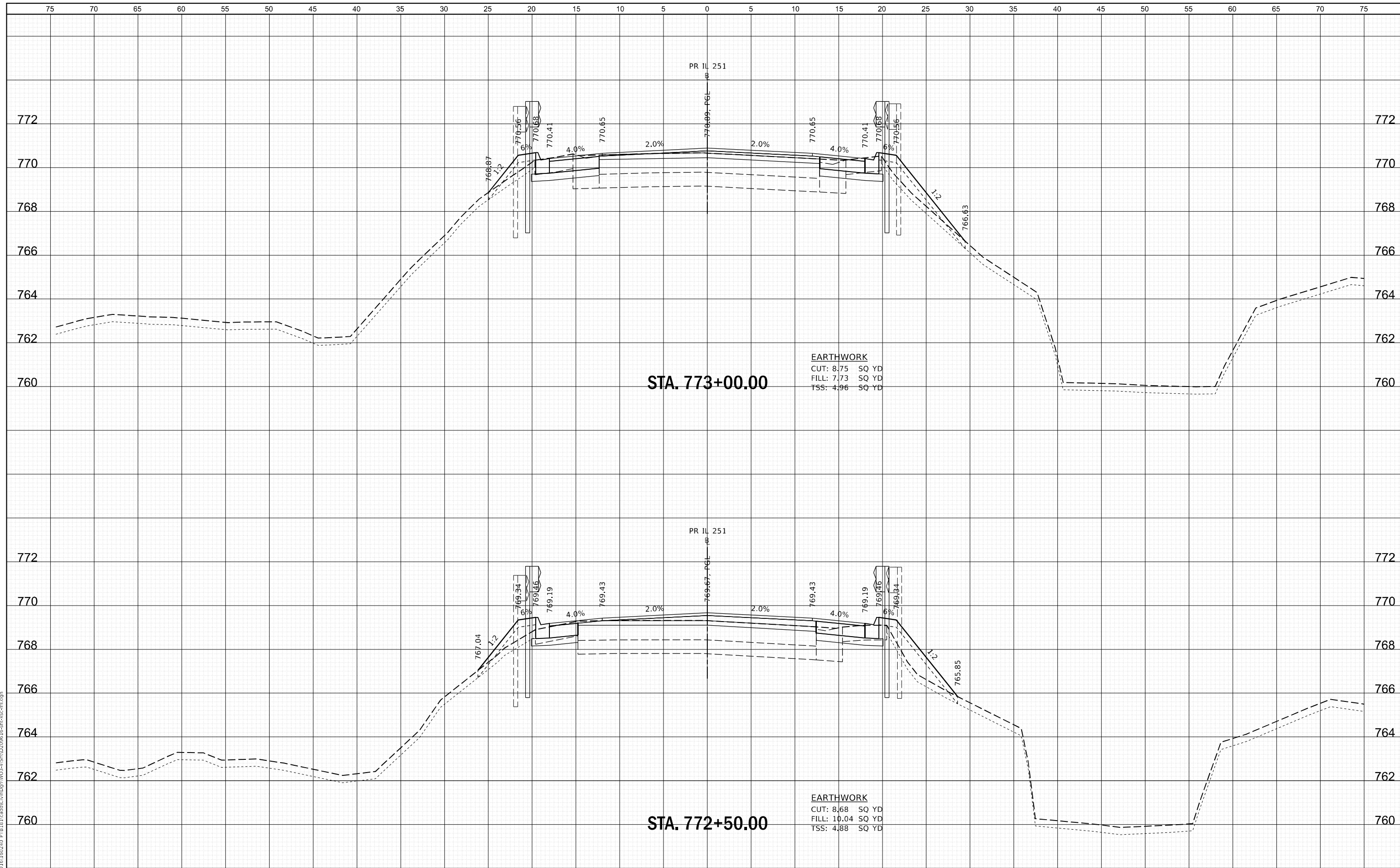
**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

SCALE: H:5 V:2 SHEET 3 OF 22 SHEETS STA. 771+50.00 TO STA. 772+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	88
			CONTRACT NO. 64L75	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssungaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	6/23/21	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	6/25/2021				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

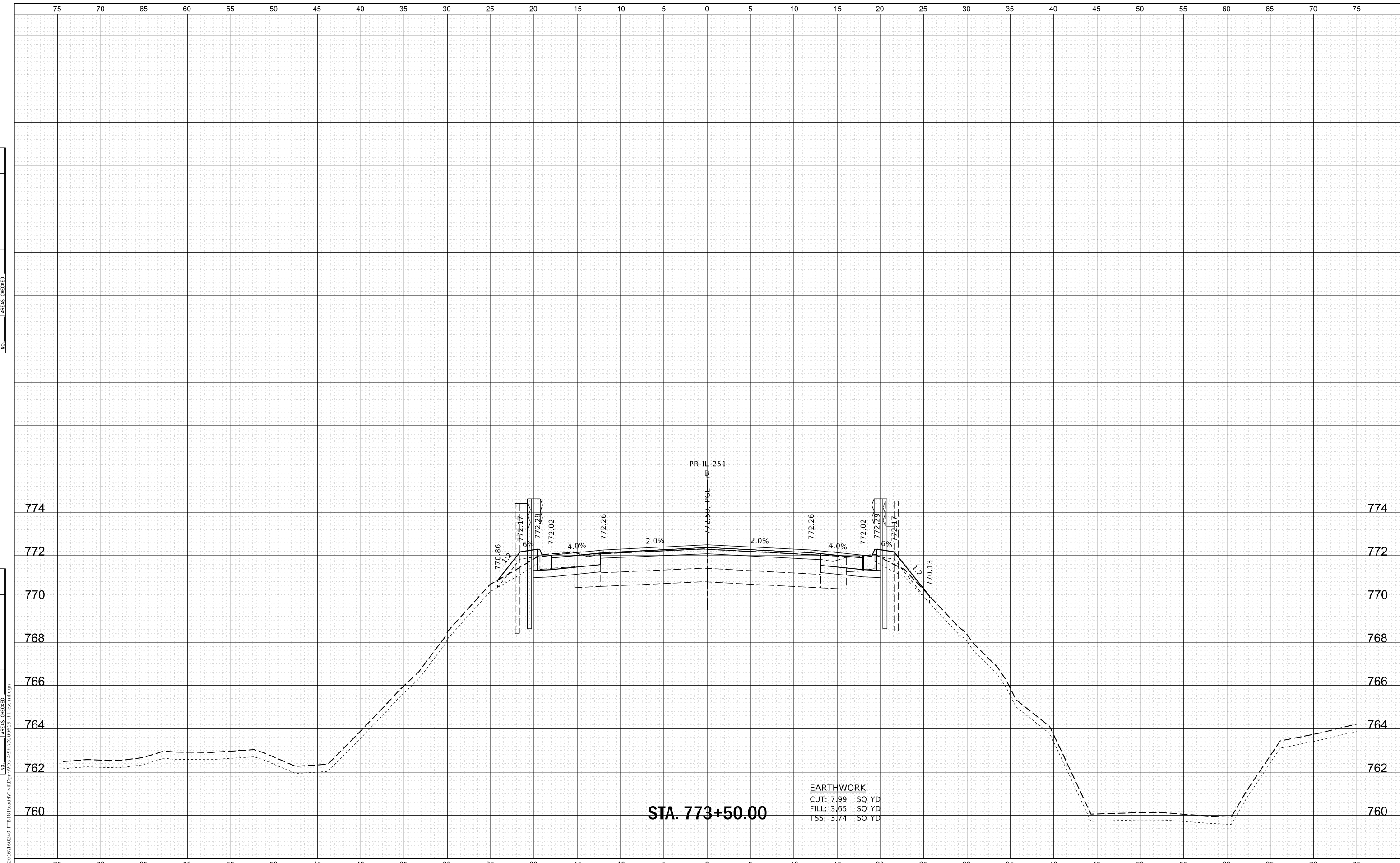
CROSS SECTIONS	
IL 251 OVER SOO LINE RAILROAD	
SCALE: H:5 V:2	SHEET 4 OF 22 SHEETS
STA. 772+50.00	TO STA. 773+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	89
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB181\card\cur\Draw\103-A\STUD\091515-SP-050-01.dwg

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
PLOTTED TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
PLOTTED TEMPLATE	
AREAS CHECKED	



STA. 773+50.00

EARTHWORK
 CUT: 7.99 SQ YD
 FILL: 3.65 SQ YD
 TSS: 3.74 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssumgaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLOT SCALE	= 1:10
PLOT DATE	= 6/25/2021

DESIGNED	- KAC	REVISED	-
DRAWN	- VLM	REVISED	-
CHECKED	- YOO	REVISED	-
DATE	- 6/23/21	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

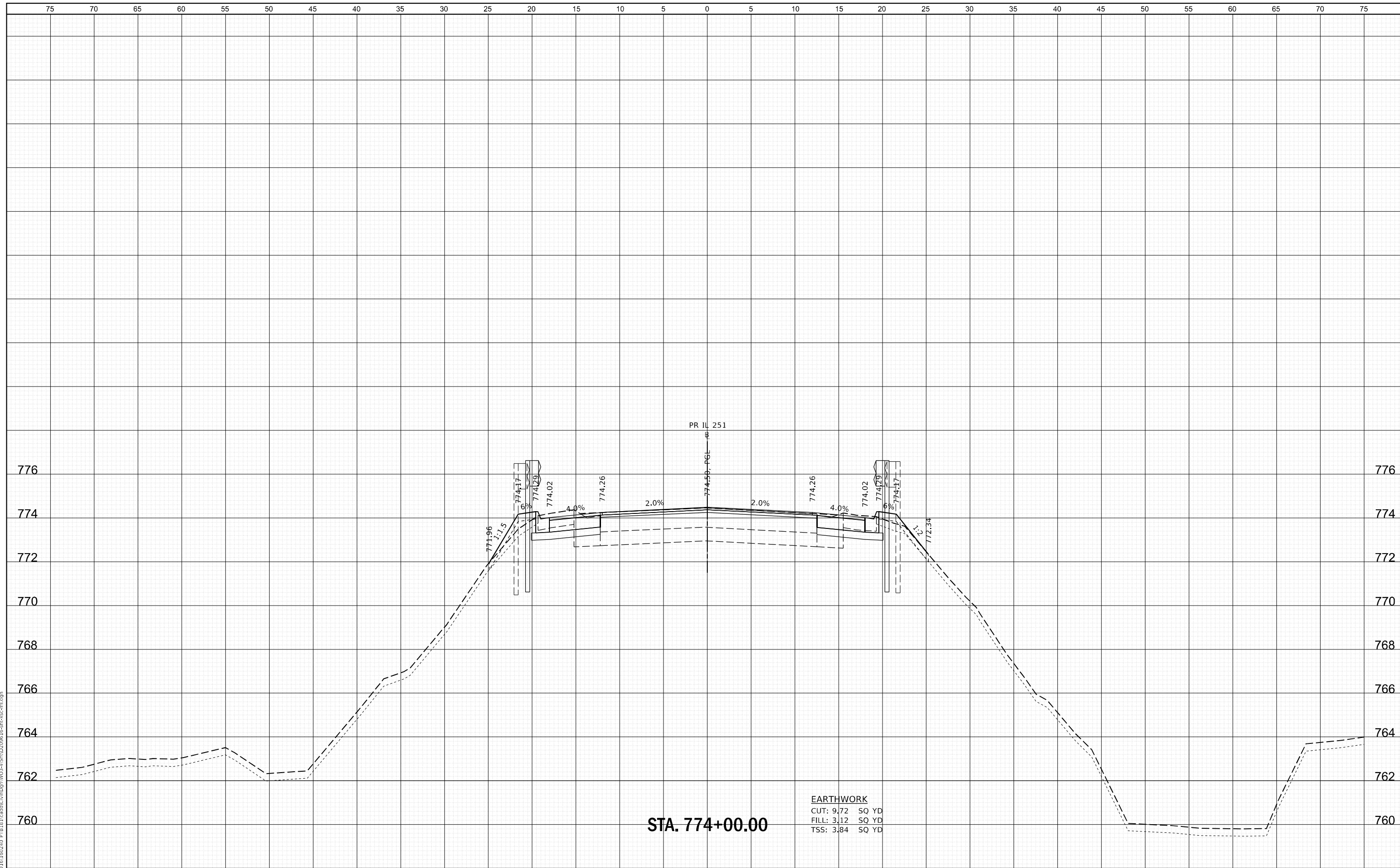
SCALE: H:5 V:2 SHEET 5 OF 22 SHEETS STA. 773+50.00 TO STA. 773+50.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	90
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB181\Cad\Civil\Drawings\103-A\103VBR-D\103-A-CROSS-1091

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



STA. 774+00.00

EARTHWORK
 CUT: 9.72 SQ YD
 FILL: 3.12 SQ YD
 TSS: 3.84 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssundaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

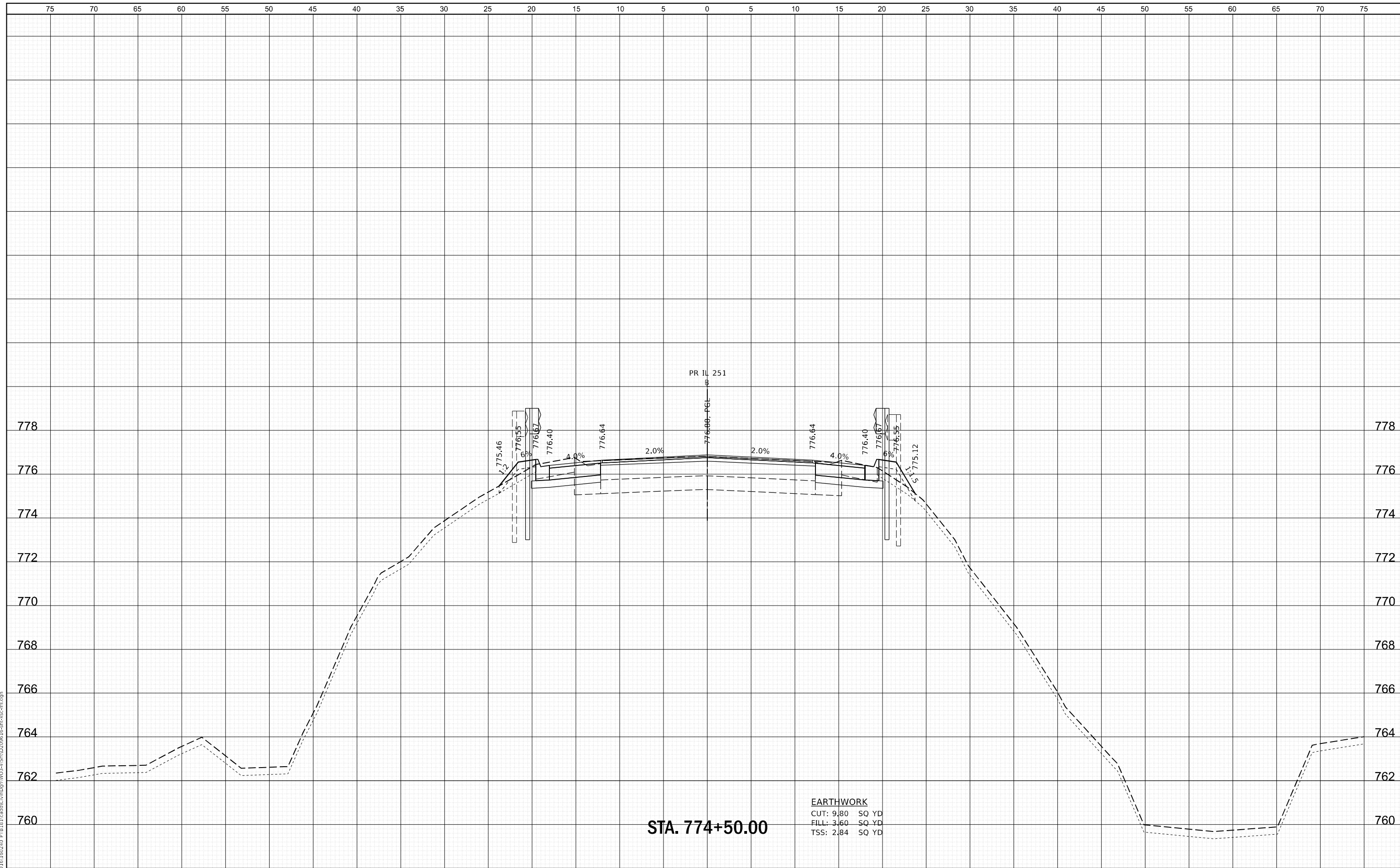
SCALE: H:5 V:2 SHEET 6 OF 22 SHEETS STA. 774+00.00 TO STA. 774+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	91
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB\B1\cad\Civil\Drawings\103-VIS\103-VIS-SP-SECTION.DWG

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	



STA. 774+50.00

EARTHWORK
 CUT: 9.80 SQ YD
 FILL: 3.60 SQ YD
 TSS: 2.84 SQ YD

USER NAME	= ssumgaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

REVISIED	-
REVISIED	-
REVISIED	-
REVISIED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

SCALE: H:5 V:2 SHEET 7 OF 22 SHEETS STA. 774+50.00 TO STA. 774+50.00

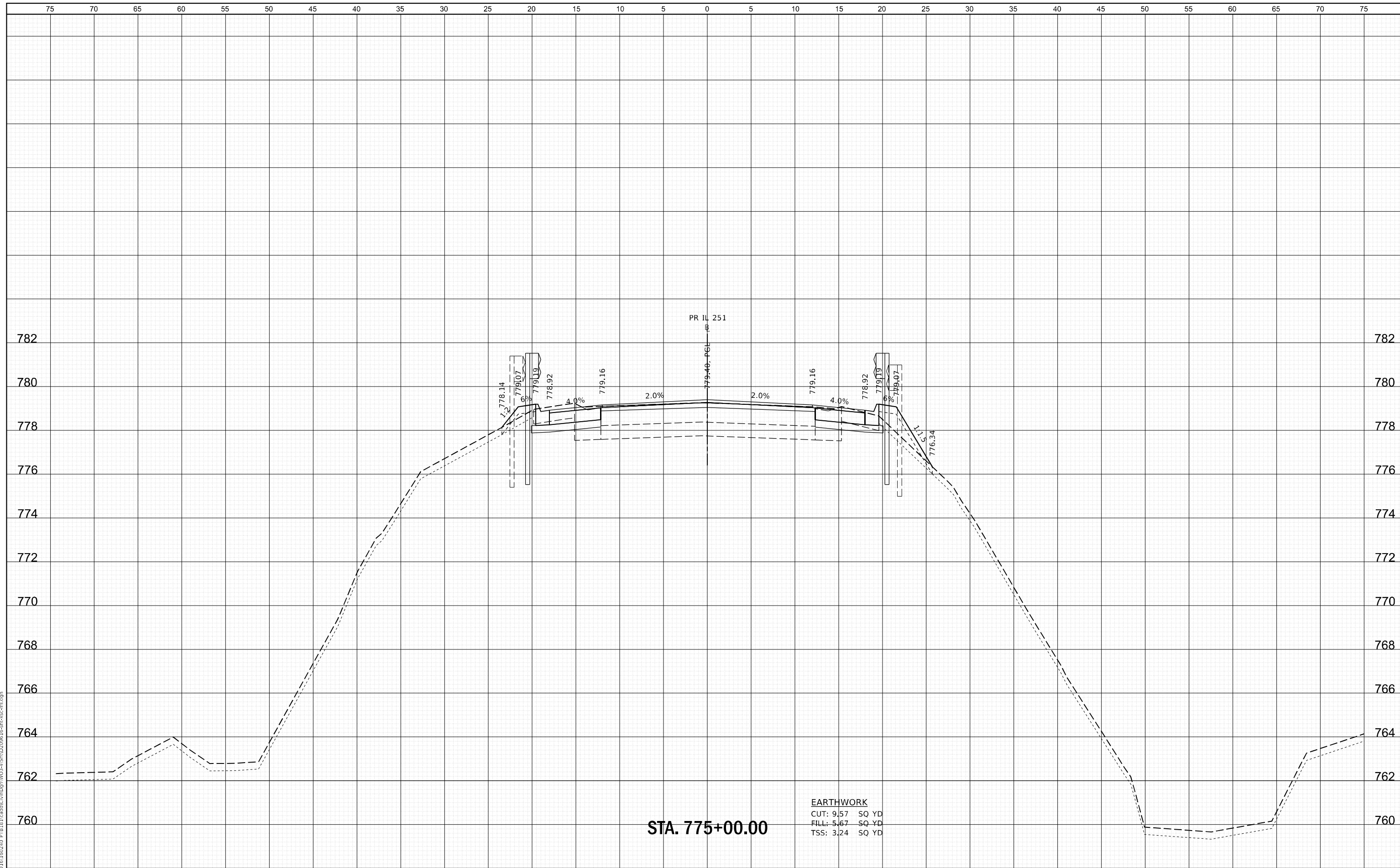
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	92
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	



FILE NAME = Z:\2020\100240_PTB181\Cad\Civil\Drawings\103-A\103-D\103-D-103-01.dwg

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AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



STA. 775+00.00

EARTHWORK
 CUT: 9.57 SQ YD
 FILL: 5.67 SQ YD
 TSS: 3.24 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssunigaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

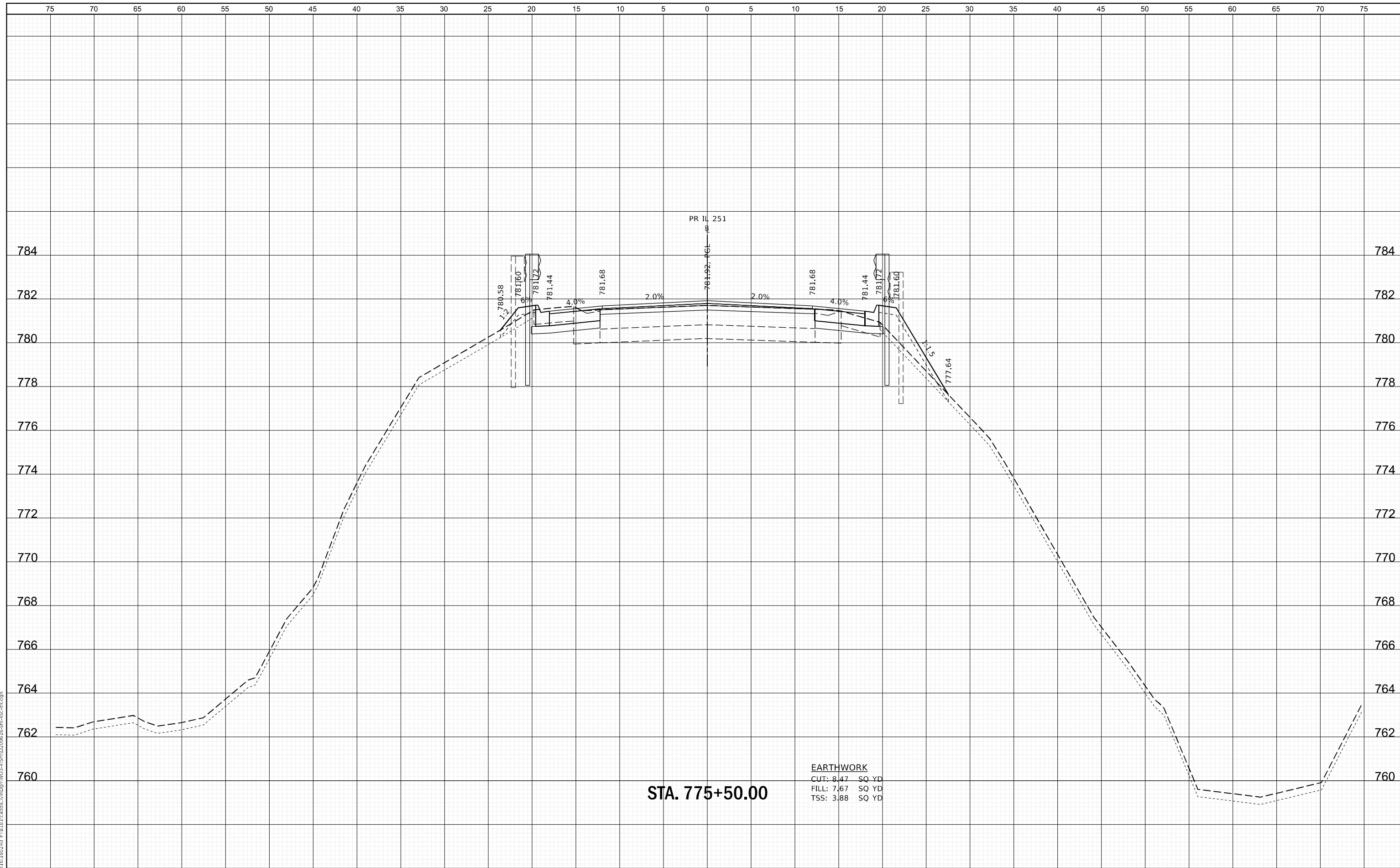
SCALE: H:5 V:2 SHEET 8 OF 22 SHEETS STA. 775+00.00 TO STA. 775+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	93
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

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DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED
	AREAS
	CHECKED



STA. 775+50.00

EARTHWORK
 CUT: 8.47 SQ YD
 FILL: 7.67 SQ YD
 TSS: 3.88 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssunigaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

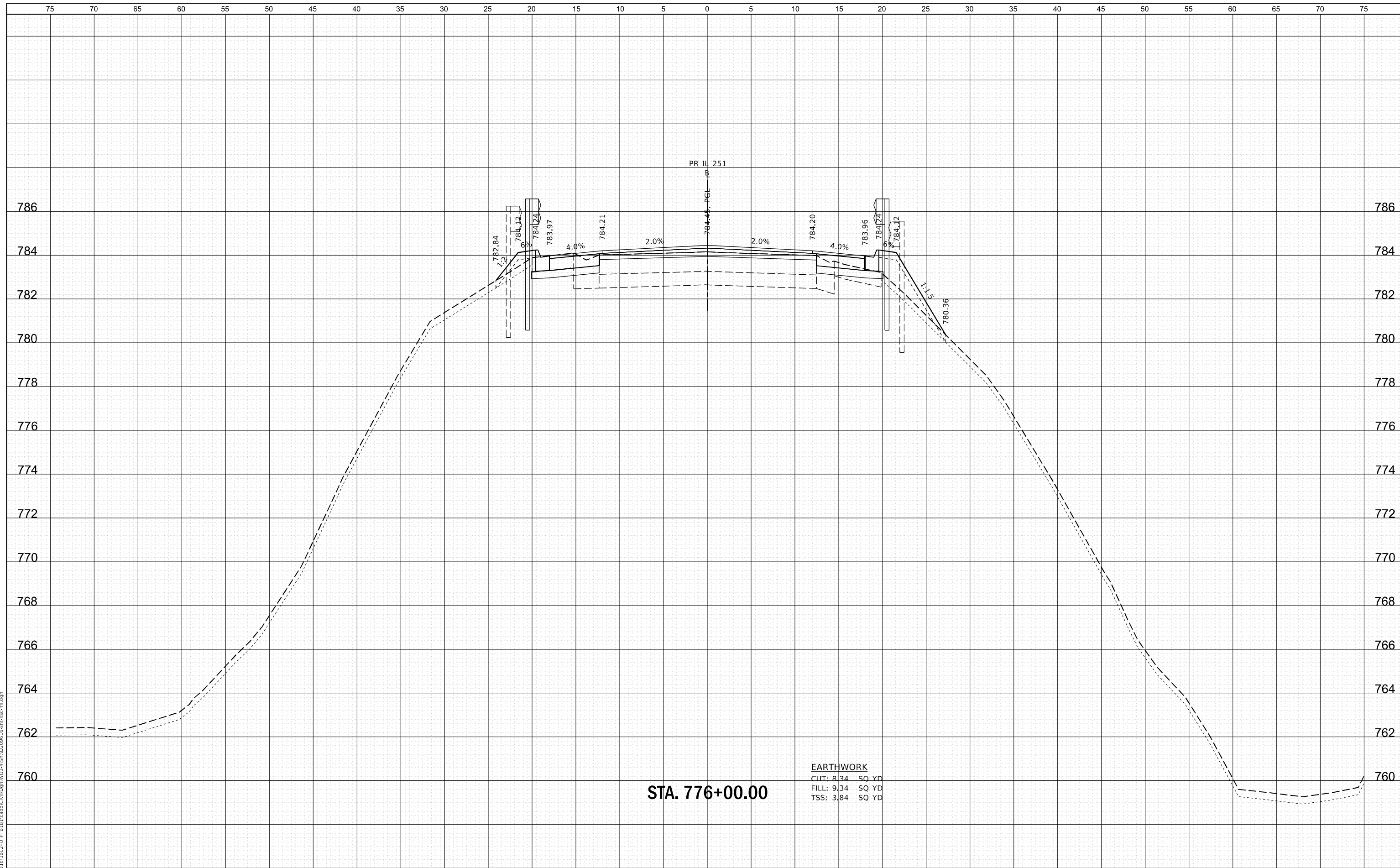
CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

SCALE: H:5 V:2 SHEET 9 OF 22 SHEETS STA. 775+50.00 TO STA. 775+50.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	94
			CONTRACT NO. 64L75	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



STA. 776+00.00

EARTHWORK
 CUT: 8.34 SQ YD
 FILL: 9.34 SQ YD
 TSS: 3.84 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssunigaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	6/23/21	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	6/25/2021				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

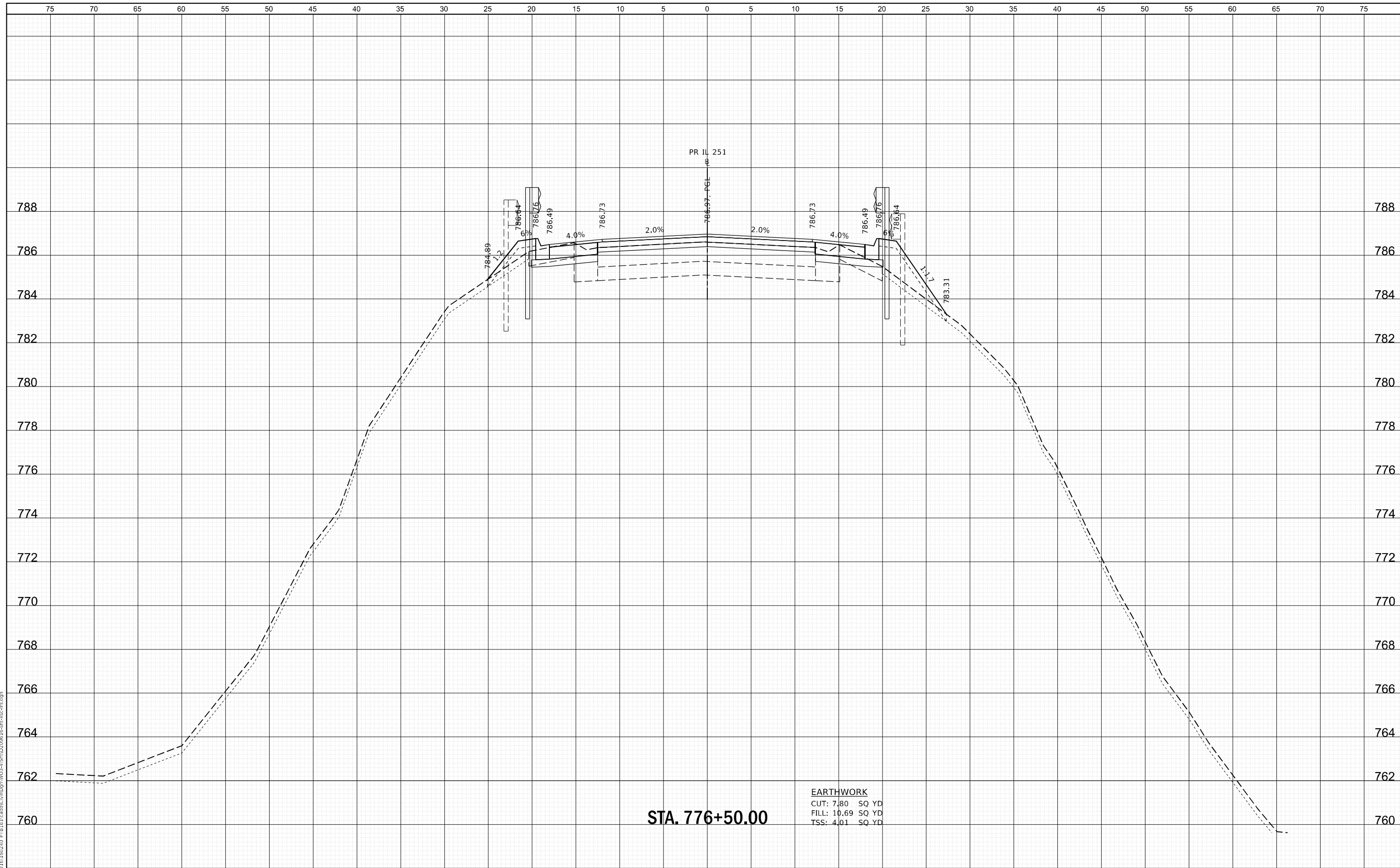
CROSS SECTIONS
IL 251 OVER S00 LINE RAILROAD

SCALE: H:5 V:2 SHEET 10 OF 22 SHEETS STA. 776+00.00 TO STA. 776+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	95
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
FINAL	
SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssundaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	6/23/21	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	6/25/2021				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

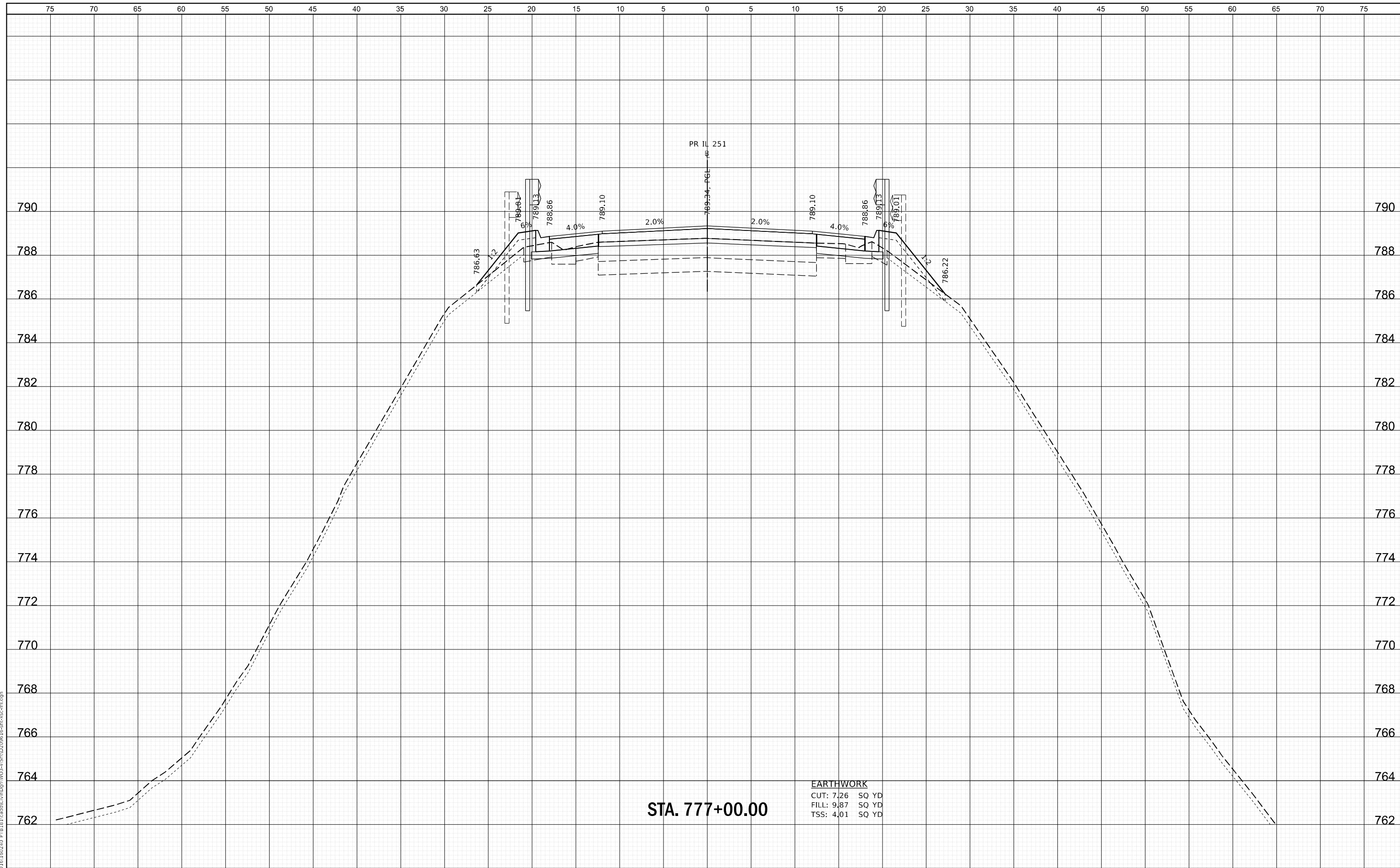
**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

SCALE: H:5 V:2 SHEET 11 OF 22 SHEETS STA. 776+50.00 TO STA. 776+50.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	96
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



STA. 777+00.00

EARTHWORK
 CUT: 7.26 SQ YD
 FILL: 9.87 SQ YD
 TSS: 4.01 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssnigaresan
PLOT SCALE	= 1:10
PLOT DATE	= 6/25/2021

DESIGNED	- KAC	REVISED	-
DRAWN	- VLM	REVISED	-
CHECKED	- YOO	REVISED	-
DATE	- 6/23/21	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

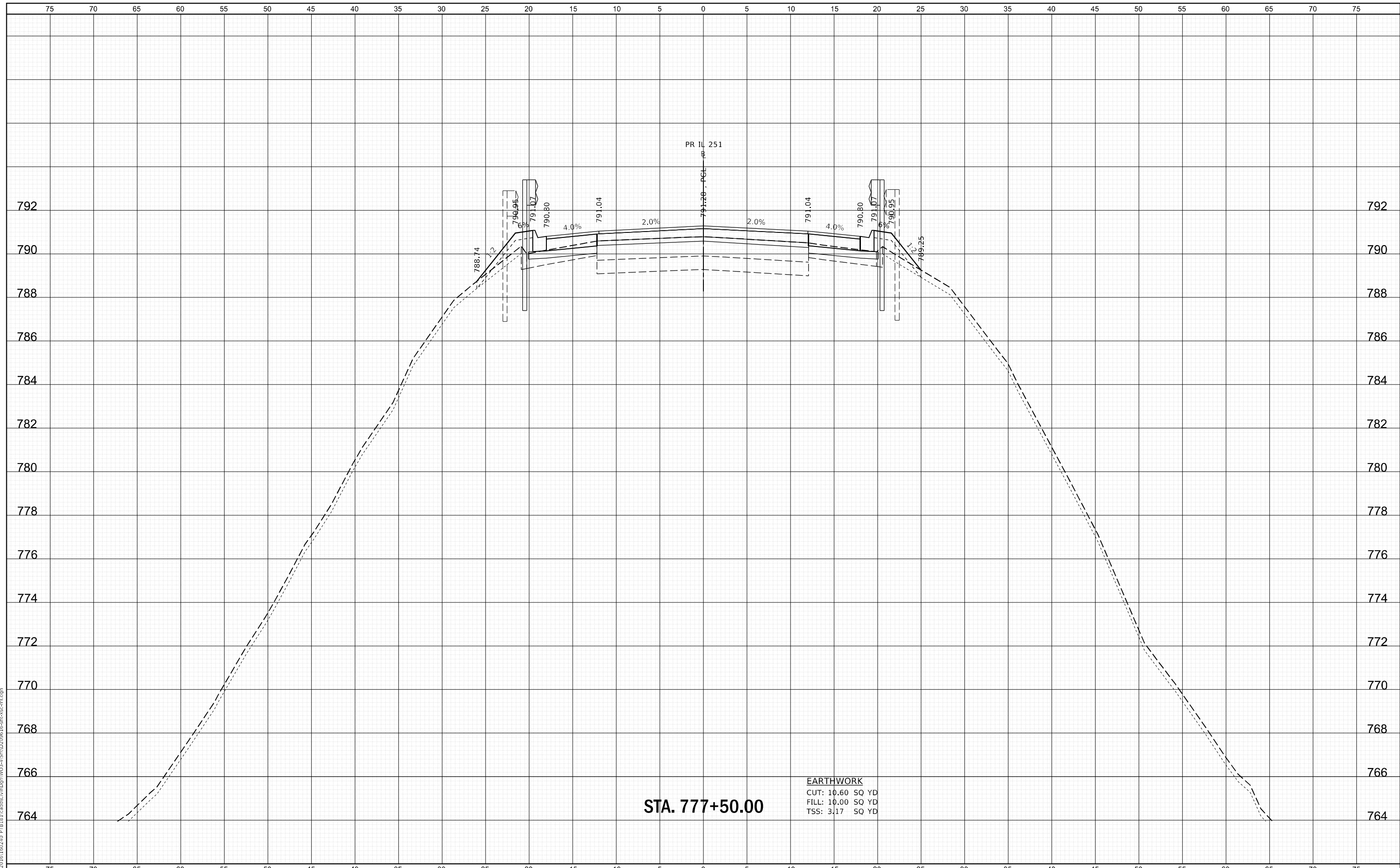
SCALE: H:5 V:2 SHEET 12 OF 22 SHEETS STA. 777+00.00 TO STA. 777+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	97
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

FILE NAME = Z:\2020\100240_PTB181\cad\Civil\Drawings\100240-VIS\100240-12-CROSS-SECTION.dwg

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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



STA. 777+50.00

EARTHWORK
 CUT: 10.60 SQ YD
 FILL: 10.00 SQ YD
 TSS: 3.17 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = ssnigaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
	DATE - 6/23/21	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

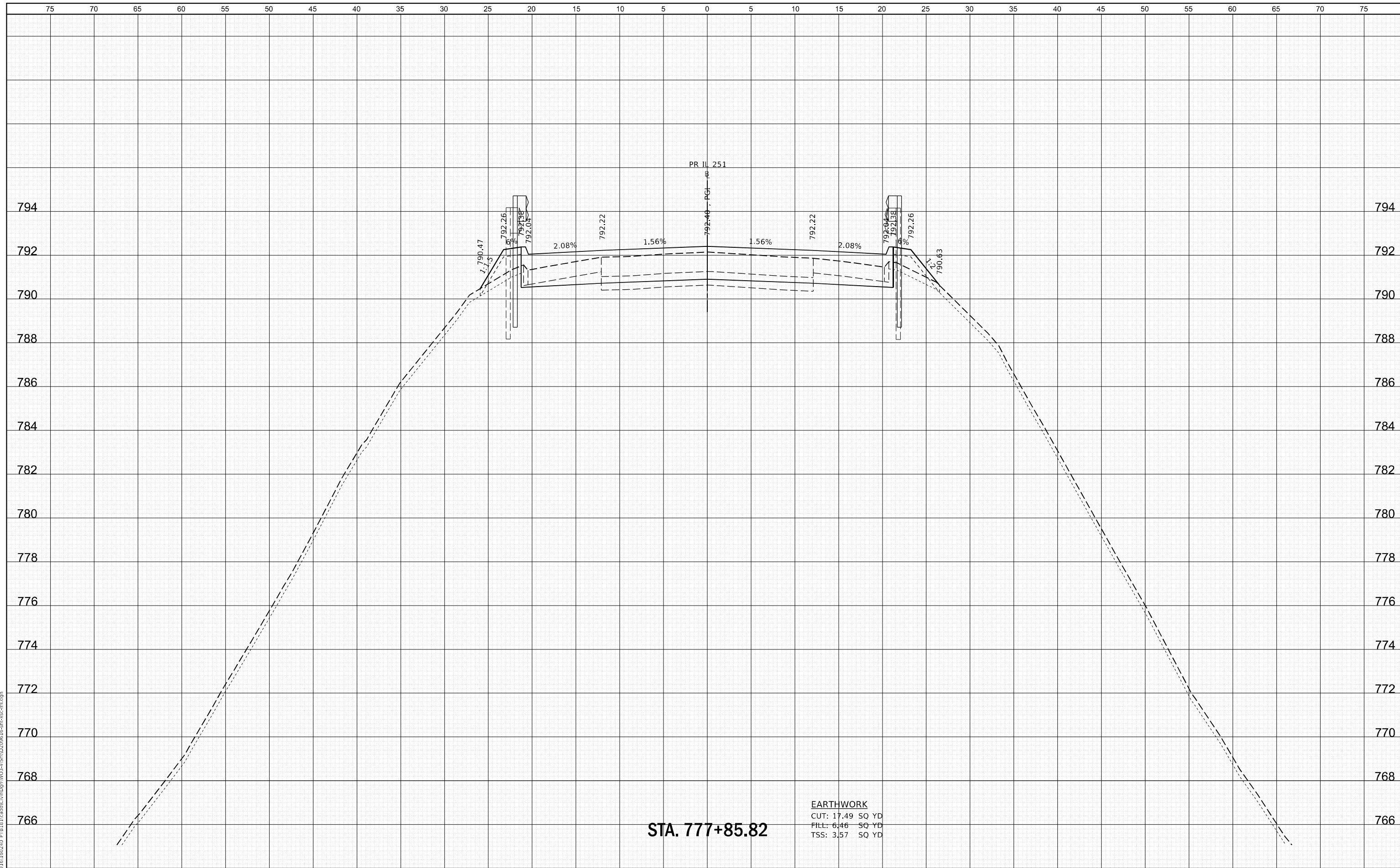
**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

SCALE: H:5 V:2 SHEET 13 OF 22 SHEETS STA. 777+50.00 TO STA. 777+50.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	98
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



STA. 777+85.82

EARTHWORK
 CUT: 17.49 SQ YD
 FILL: 6.46 SQ YD
 TSS: 3.57 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = sssundaresan	DESIGNED - KAC	REVISED -
PLOT SCALE = 1:10	DRAWN - VLM	REVISED -
PLOT DATE = 6/25/2021	CHECKED - YOO	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

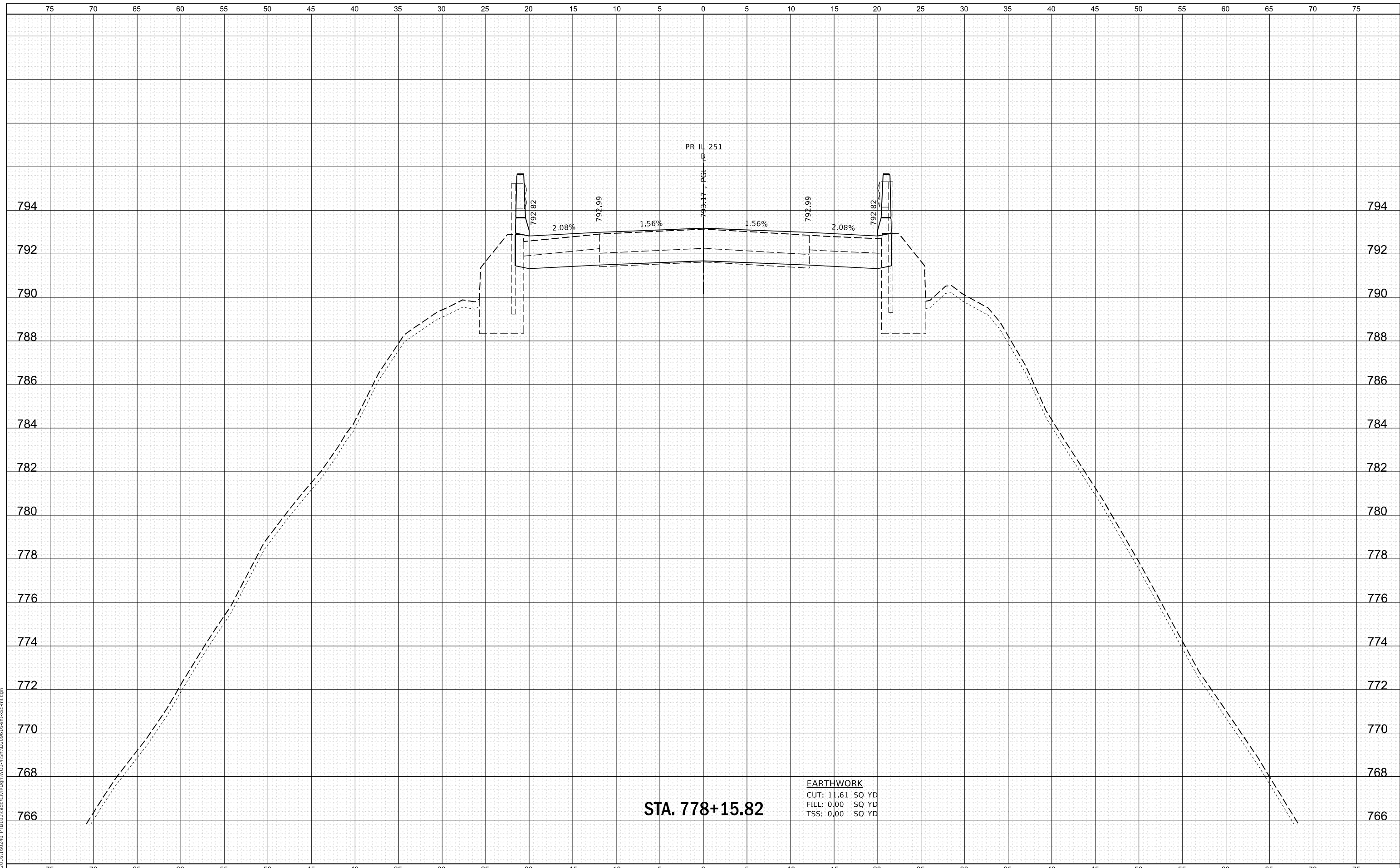
SCALE: H:5 V:2 SHEET 14 OF 22 SHEETS STA. 777+85.82 TO STA. 777+85.82

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	99
			CONTRACT NO. 64L75	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssunigaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	6/23/21	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	6/25/2021				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 251 OVER SOO LINE RAILROAD

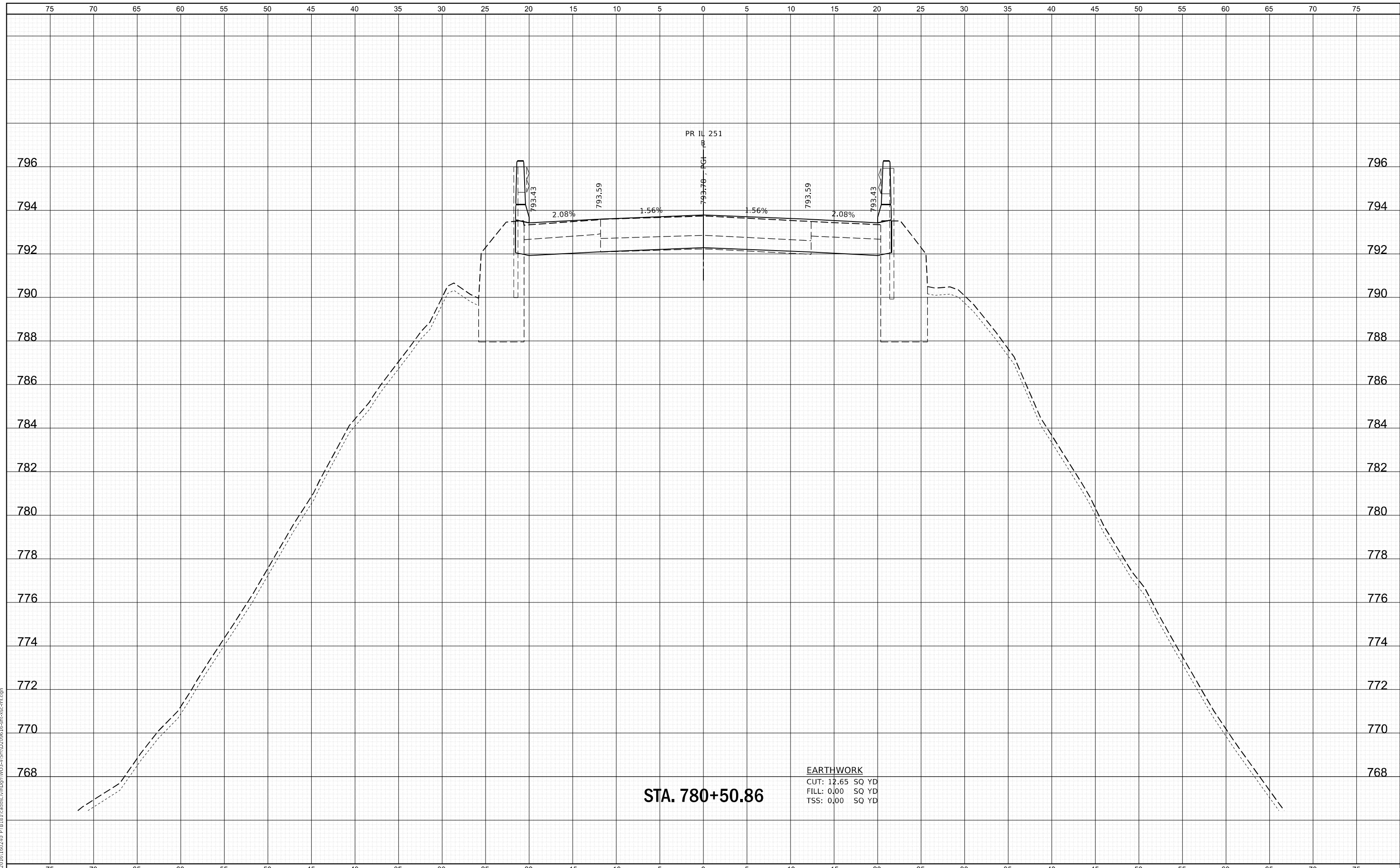
SCALE: H:5 V:2 SHEET 15 OF 22 SHEETS STA. 778+15.82 TO STA. 778+15.82

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	100
			CONTRACT NO. 64L75	
			ILLINOIS FED. AID PROJECT	

FILE NAME = Z:\2020\100240_PTB181\Cad\Civil\Drawings\103-VIS\103-VIS-CROSS-SECTION.DWG

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NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



STA. 780+50.86

EARTHWORK
 CUT: 12.65 SQ YD
 FILL: 0.00 SQ YD
 TSS: 0.00 SQ YD



USER NAME	= ssunigaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

DESIGNED	- KAC	REVISED	-
DRAWN	- VLM	REVISED	-
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

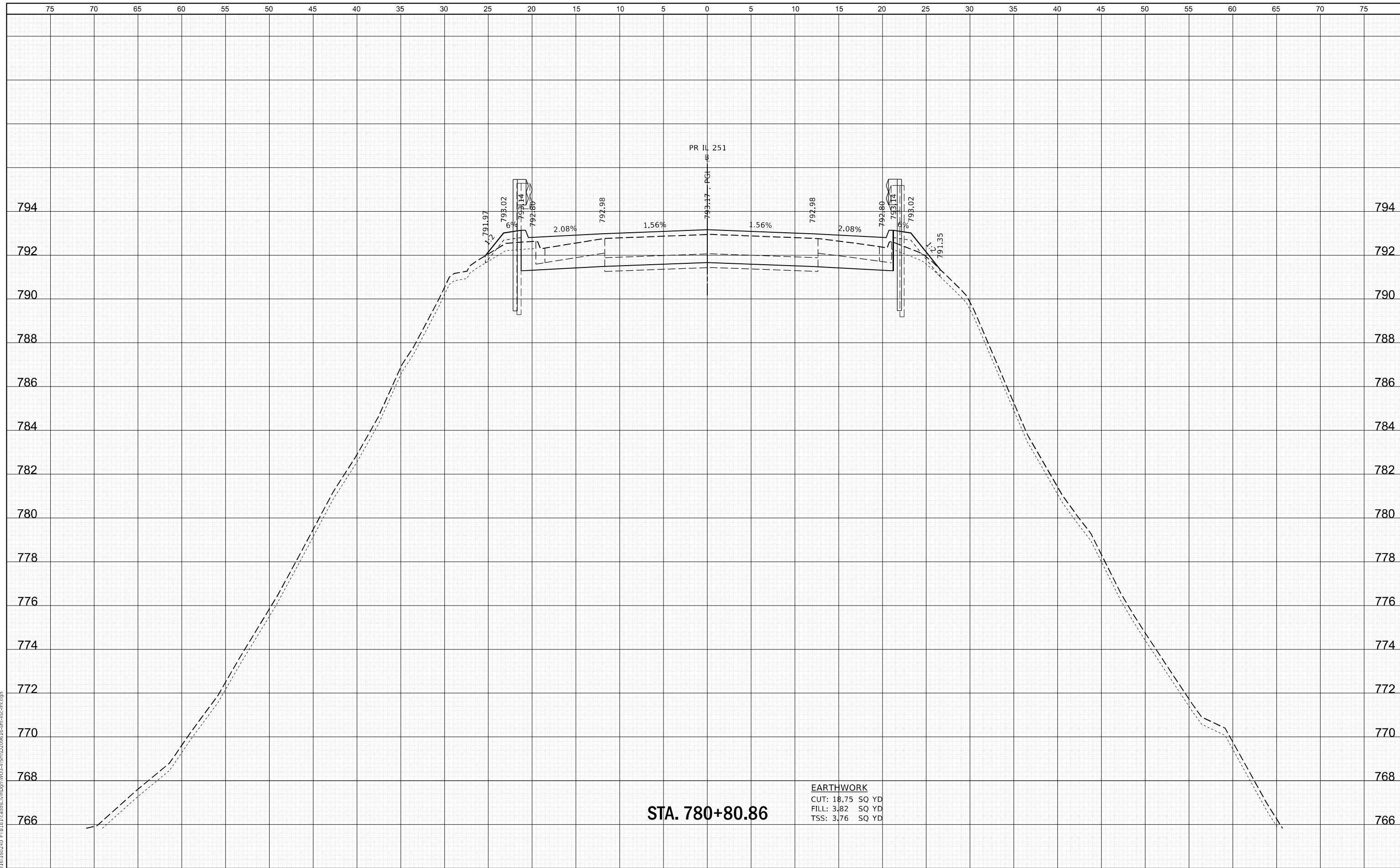
**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

SCALE: H:5 V:2 SHEET 16 OF 22 SHEETS STA. 780+50.86 TO STA. 780+50.86

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	101
CONTRACT NO. 64L75			ILLINOIS FED. AID PROJECT	

DATE	
BY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



STA. 780+80.86

EARTHWORK
 CUT: 18.75 SQ YD
 FILL: 3.82 SQ YD
 TSS: 3.76 SQ YD



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssundaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
		CHECKED -	YOO	REVISED -	
		DATE -	6/23/21	REVISED -	
PLOT SCALE =	1:10				
PLOT DATE =	6/25/2021				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 251 OVER SOO LINE RAILROAD

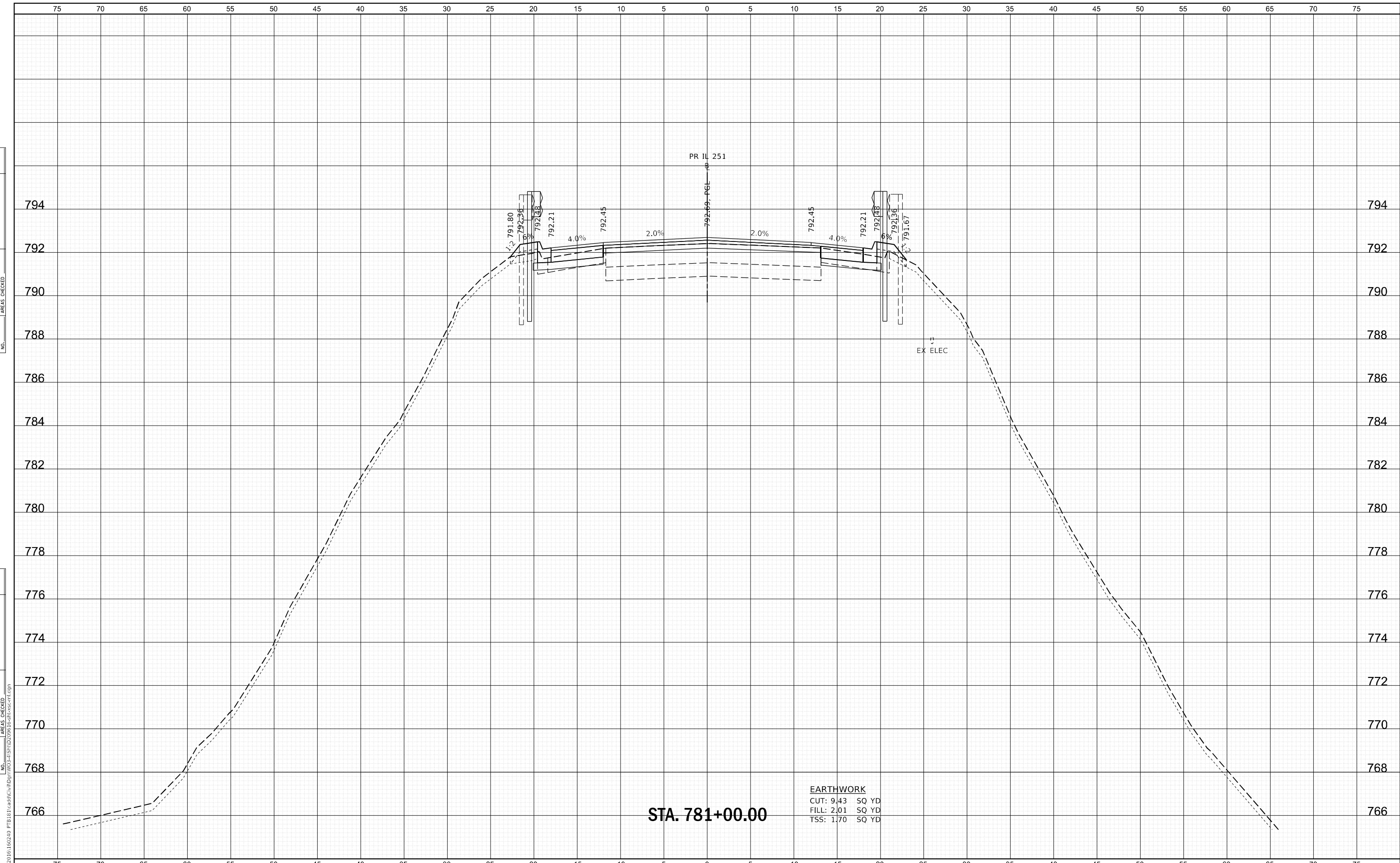
SCALE: H:5 V:2 SHEET 17 OF 22 SHEETS STA. 780+80.86 TO STA. 780+80.86

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	102
				CONTRACT NO. 64L75
				ILLINOIS FED. AID PROJECT

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NO.	

DATE	
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ORIGINAL SURVEY	
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TEMPLATE	
AREAS	
CHECKED	
NO.	



STA. 781+00.00

EARTHWORK
 CUT: 9.43 SQ YD
 FILL: 2.01 SQ YD
 TSS: 1.70 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssumgaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

DESIGNED	- KAC	REVISED	-
DRAWN	- VLM	REVISED	-
CHECKED	- YOO	REVISED	-
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

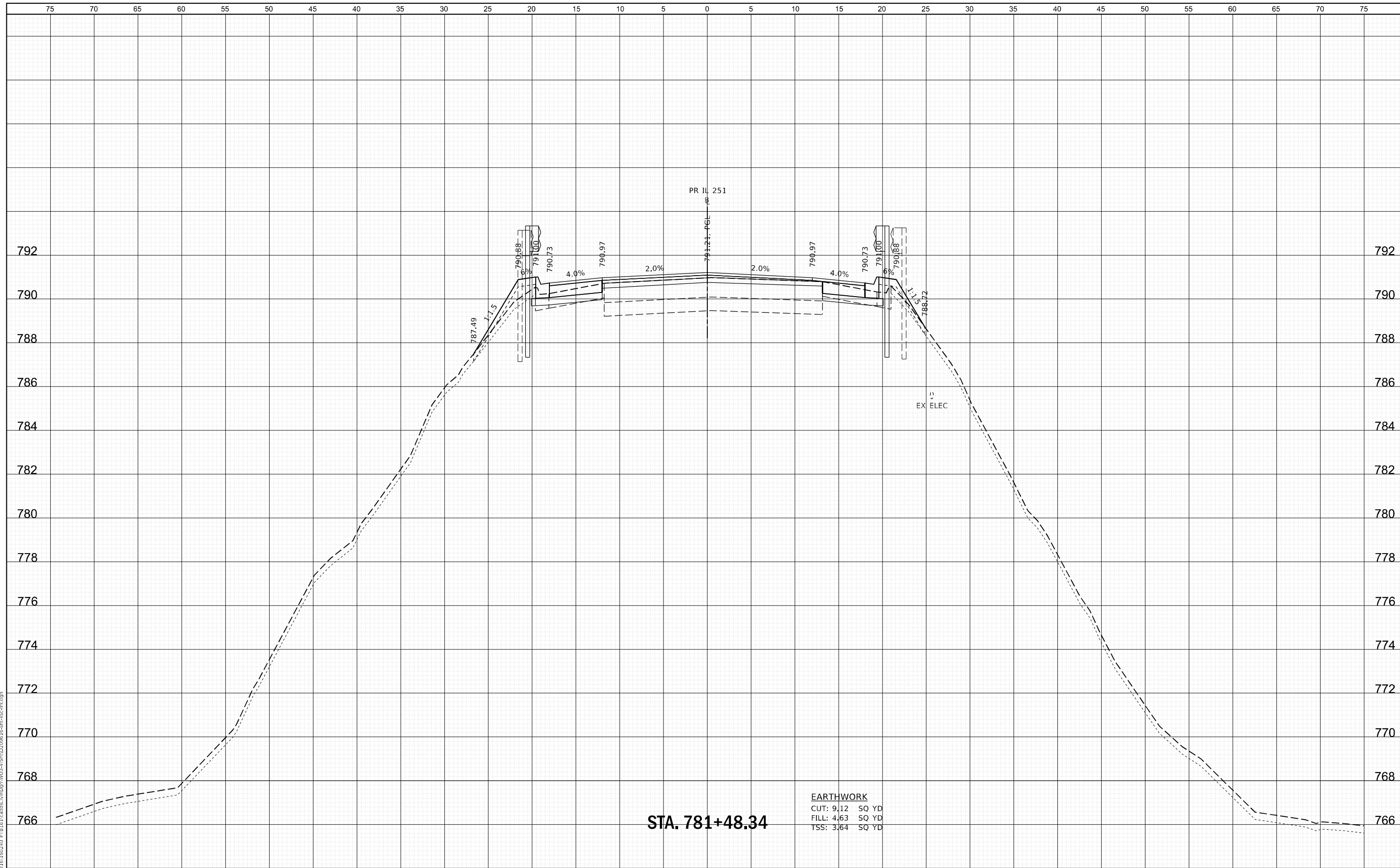
SCALE: H:5 V:2 SHEET 18 OF 22 SHEETS STA. 781+00.00 TO STA. 781+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	103
				CONTRACT NO. 64L75
				ILLINOIS FED. AID PROJECT

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AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



STA. 781+48.34

EARTHWORK
 CUT: 9.12 SQ YD
 FILL: 4.63 SQ YD
 TSS: 3.64 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssumgaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

REVISIED	-
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REVISIED	-
REVISIED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 251 OVER SOO LINE RAILROAD

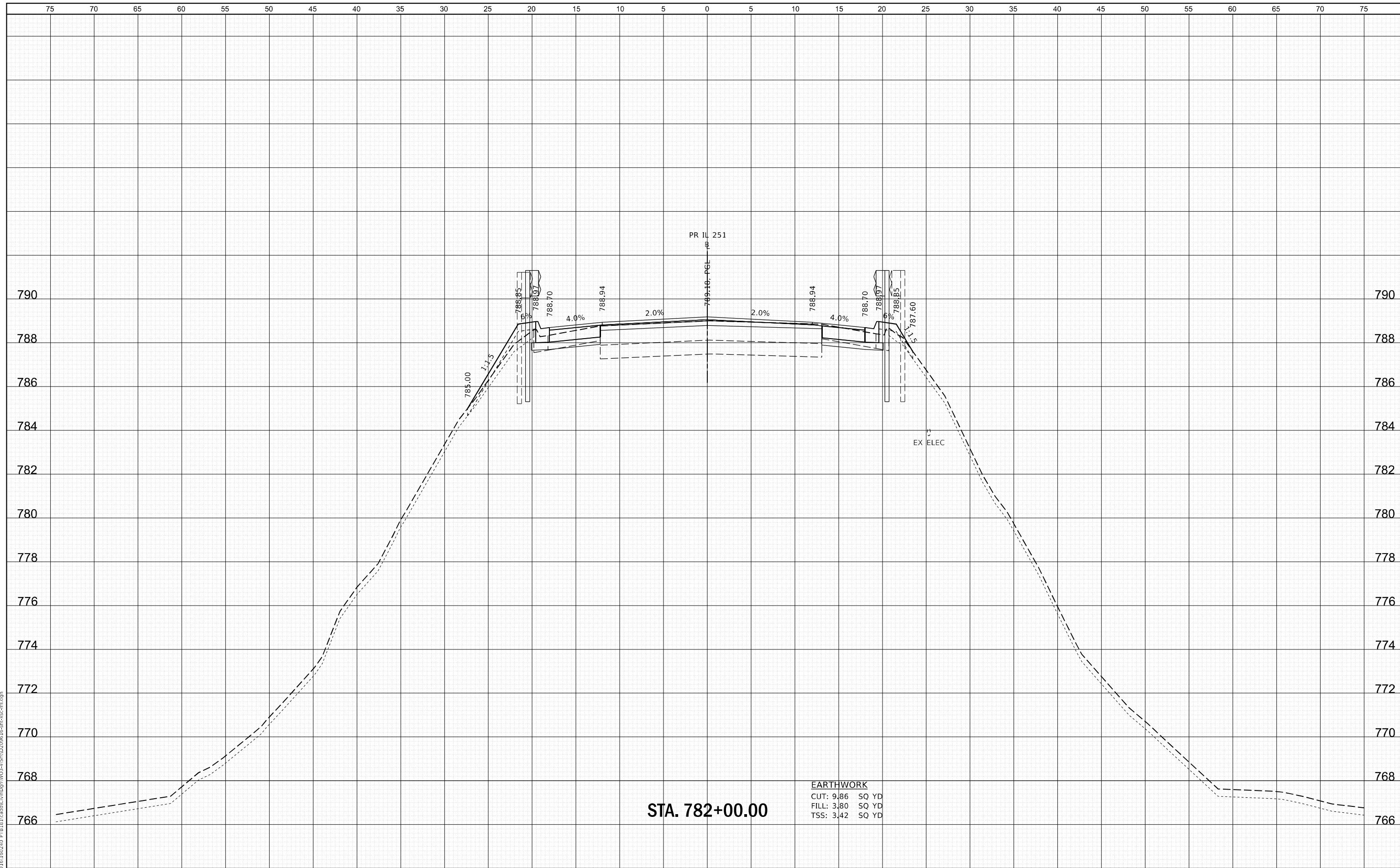
SCALE: H:5 V:2 SHEET 19 OF 22 SHEETS STA. 781+48.34 TO STA. 781+48.34

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	104
				CONTRACT NO. 64L75

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	



STA. 782+00.00

EARTHWORK
 CUT: 9.86 SQ YD
 FILL: 3.80 SQ YD
 TSS: 3.42 SQ YD

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssumgaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLLOT SCALE	= 1:10
PLLOT DATE	= 6/25/2021

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD**

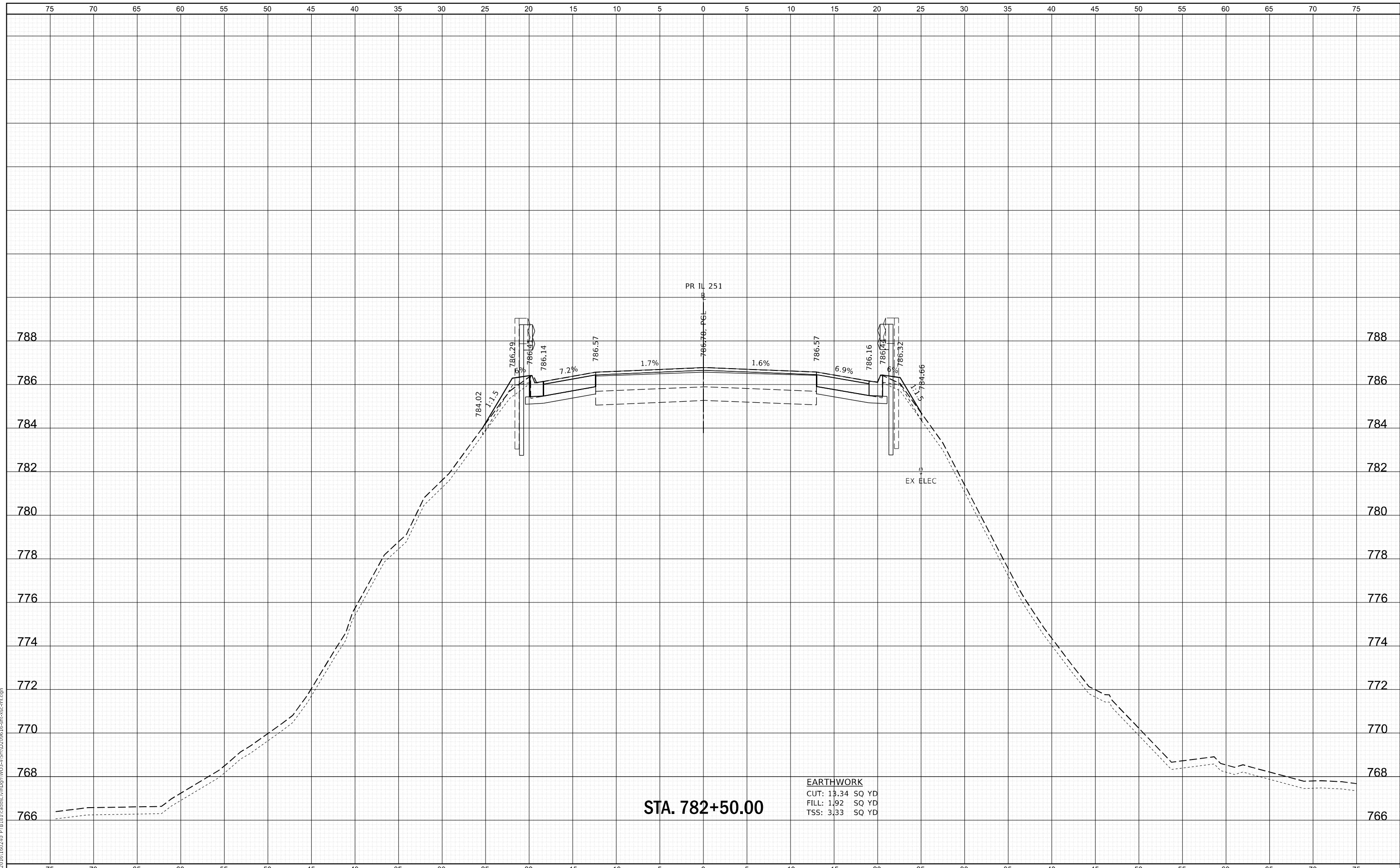
SCALE: H:5 V:2 SHEET 20 OF 22 SHEETS STA. 782+00.00 TO STA. 782+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	105
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB\B1\Cad\Civil\Drawings\103-VIS\10240-IL251-CROSS-SECTION.dwg

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



EARTHWORK
 CUT: 13.34 SQ YD
 FILL: 1.92 SQ YD
 TSS: 3.33 SQ YD

STA. 782+50.00

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME =	ssunigaresan	DESIGNED -	KAC	REVISED -	
		DRAWN -	VLM	REVISED -	
PLOT SCALE =	1:10	CHECKED -	YOO	REVISED -	
PLOT DATE =	6/25/2021	DATE -	6/23/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 251 OVER SOO LINE RAILROAD

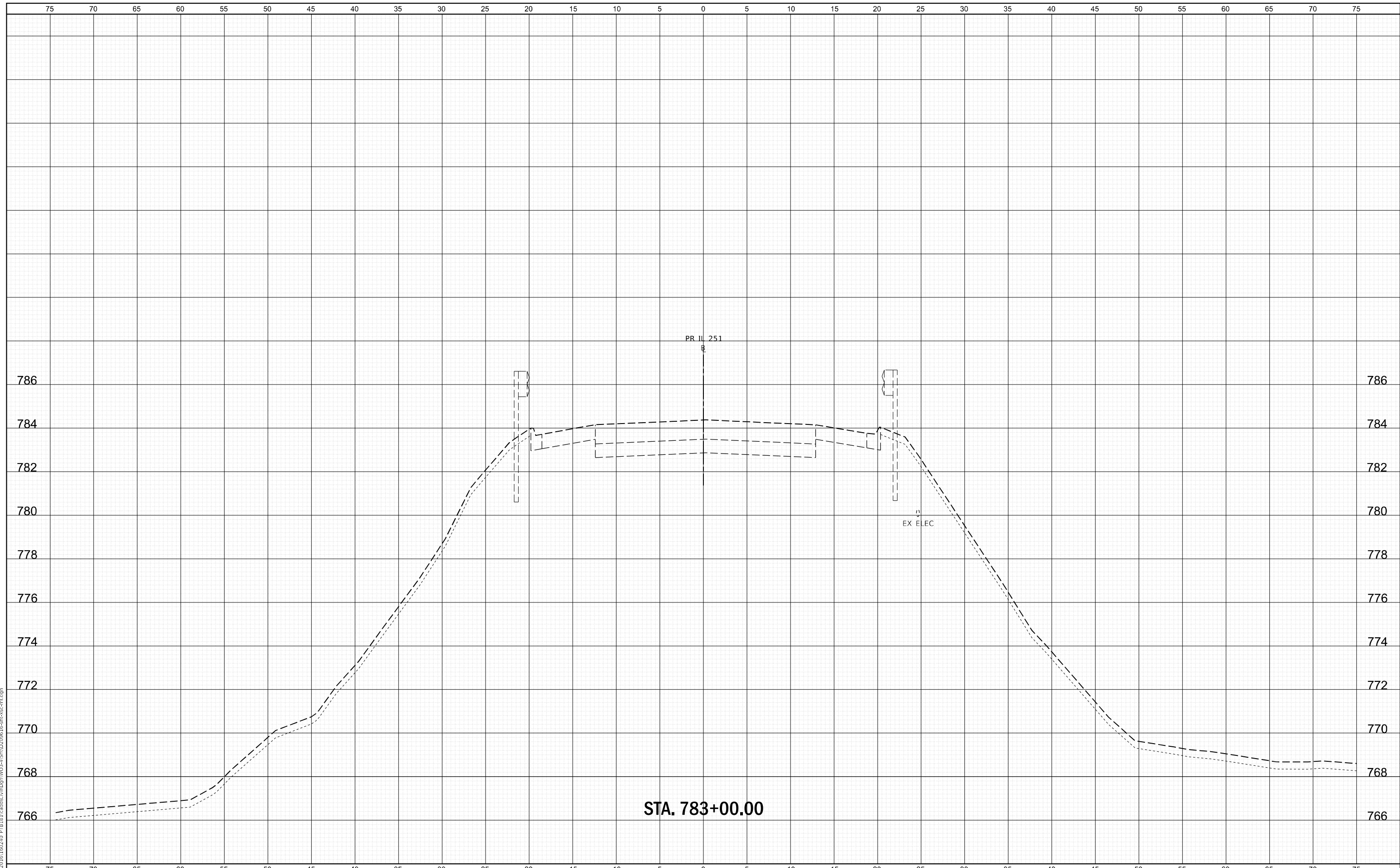
SCALE: H:5 V:2 SHEET 21 OF 22 SHEETS STA. 782+50.00 TO STA. 782+50.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	106
				CONTRACT NO. 64L75
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB181\Cad\Civil\Drawings\103-VIS\103-VIS-106-Cross-1.dwg

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



STA. 783+00.00

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= ssunigaresan
DESIGNED	- KAC
DRAWN	- VLM
CHECKED	- YOO
DATE	- 6/23/21
PLOT SCALE	= 1:10
PLOT DATE	= 6/25/2021

REVIS	-
REVIS	-
REVIS	-
REVIS	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 251 OVER SOO LINE RAILROAD

SCALE: H:5 V:2 SHEET 22 OF 22 SHEETS STA. 783+00.00 TO STA. 783+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1042	106VBR-D	OGLE	107	107
CONTRACT NO. 64L75				
ILLINOIS FED. AID PROJECT				

FILE NAME = Z:\2020\100240_PTB181\card\Cu\Draw\783+00\106VBR-D\106VBR-D-107.dwg