

039

INDEX OF SHEETS  
FOR INDEX OF SHEETS  
SEE SHEET 4

03-06-2020 LETTING ITEM 039

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 553 (IL-72) OVER ROCK RIVER  
SECTION (119BR-1)BDR  
BRIDGE REHABILITATION  
S.N. 071-0040  
PROJECT: STP-6RLL(172)  
OGLE COUNTY

D-92-077-18  
C-92-021-19

A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	1

\* 29 + 1 = 30 TOTAL SHEETS  
D-92-077-18  
C-92-021-19



**TRAFFIC DATA:**  
FUNCTIONAL CLASSIFICATION  
MINOR ARTERIAL  
2017 ADT = 7,700  
EST. TRUCK % = 4%

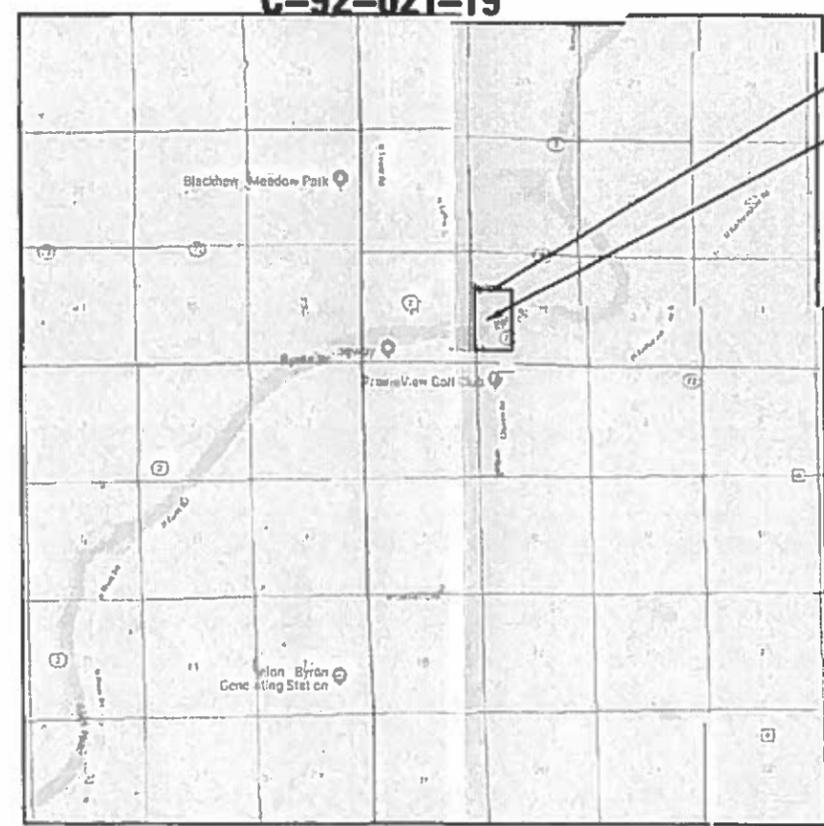


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MICHAEL LIVERNOIS, P.E. (847) 753-8020  
PROJECT MANAGER: MAHMOUD ETEMADI, P.E. (815) 284-5359

CONTRACT NO. 64N31



LOCATION-MAP R11E 4th PM  
N.T.S.

GROSS LENGTH = 2000 FT. = 0.38 MILE  
NET LENGTH = 2000 FT. = 0.38 MILE



KATHERINE J. LESKA  
FOR DRAWINGS 5-13



NABI FAKRODDIN  
FOR DRAWINGS 1-4, 17-29

AEG ATLAS ENGINEERING GROUP, LTD.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Jan 06, 2020

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

*[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

# SUMMARY OF QUANTITIES

80% FED.  
20% STATE

CODE NAME	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				BRIDGE	ROADWAY
				0047	0047
				071-0040	
42400800	DETECTABLE WARNING	SQ FT	160		160
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	545.4	100	445.4
50102400	CONCRETE REMOVAL	CU YD	19.8	19.8	
50157300	PROTECTIVE SHIELD	SQ YD	277.0	277.0	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.8	19.8	
50300300	PROTECTIVE COAT	SQ YD	3,338.0	3,338.0	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3039	3039	
50800515	BAR SPLICERS	EACH	96	96	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	160	160	
60260100	INLET TO BE ADJUSTED	EACH	3		3
60605000	COMBINATION CURB AND GUTTER, TYPE B-6.24	FOOT	100		100
60610400	COMBINATION CURB AND GUTTER, TYPE M-6.24	FOOT	450		450
60618208	HMA MEDIAN	SQ FT	2563.8		2563.8
60618320	CONCRETE MEDIAN SURFACE, 6"	SQ FT	1259.1		1259.1
67100100	MOBILIZATION	L SUM	1		1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240		240
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4,750		4,750

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**AEG ATLAS ENGINEERING GROUP, LTD.**  
 3100 Dundas Road, Suite 502 | Northbrook, IL 60062  
 847.753.8020 (office) | 847.753.8023 (fax)

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	CHECKED - MJL	REVISED
PLOT SCALE =	DRAWN - SHP/MS	REVISED
PLOT DATE = 12/23/2019	CHECKED - MJL	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	2
ILLINOIS FED. AID PROJECT				CONTRACT NO. 64N31

70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	200		200
70400100	TEMPORARY CONCRETE BARRIER	FOOT	900		900
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	900		900
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,520		6,520
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	200		200
X2700001	TEMPORARY RUMBLE STRIP, SPECIAL	EACH	2		2
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,900		1,900
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	1102.7		1102.7
X4403700	MEDIAN REMOVAL (SPCL)	SQ FT	2690.7		2690.7
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2673.0	2673.0	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4,950		4,950
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	2,863.0	2,863.0	
Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	2,495	2,495	
Z0012144	BRIDGE DECK SCARIFICATION, 2 1/2"	SQ YD	368	368	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	587.0	587.0	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	99.8	99.8	
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	66.0	66.0	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2863.0	2,863.0	
Z0041895	POLYMER CONCRETE	CU FT	7.3	7.3	

\*= SPECIALTY ITEM

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PLOT SCALE =	DRAWN - SHP/MS	REVISED
PLOT DATE = 12/23/2019	CHECKED - MJL	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SHEET NO. 2 OF 2 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N31	

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2-3 SUMMARY OF QUANTITIES
- 4 GENERAL NOTES
- 5 MAINTENANCE OF TRAFFIC PLANS - GENERAL NOTES
- 6-11 STAGING
- 12-13 TEMPORARY TRAFFIC SIGNAL
- 14-16 ADA RAMP AND DETAILS
- 17-29 STRUCTURE NO. 071-0040

**HIGHWAY STANDARDS**

- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701316-13 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR 45 MPH OR MORE
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701502-09 URBAN LANE CLOSURE, 2L, 2W, BI-DIRECTIONAL LEFT TURN LANE
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POST

**GENERAL NOTES**

ALL BORROW WASTE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT JULIE A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK AT 800-892-0123.

NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 2'-0" OF THE TEMPORARY CONCRETE BARRIER. EQUIPMENT THAT IS ACTIVELY WORKING WITH 2'-0" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER AND THERE IS NOT ANOTHER METHOD TO COMPLETE THE WORK.

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	PLOT SCALE =	CHECKED - MJL	REVISIED			555	119R & 1198R-1	OGLE	29	4
PLOT DATE = 1/22/2020		DRAWN - SHP/MS	REVISIED	SHEET NO. 1 OF 13 SHEETS		CONTRACT NO. 64N31				
						ILLINOIS FED. AID PROJECT				

**CONSTRUCTION STAGING GENERAL NOTES**

- ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- STATION OFFSETS AND DIMENSIONS OF TRAFFIC CONTROL MEASURES SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- SEE SUGGESTED MAINTENANCE OF TRAFFIC PLAN FOR ADDITIONAL SIGNING.
- CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER. A QUANTITY HAS BEEN PROVIDED FOR THIS PURPOSE.
- EMERGENCY VEHICLES MUST HAVE ACCESS TO THE AREA AT ALL TIMES.
- THE CONTRACTOR MUST NOTIFY THE IDOT BUREAU OF TRAFFIC AS REQUIRED 72 HOURS IN ADVANCE OF BEGINNING WORK AT (815) 284-5474.
- SIGN SPACING SHALL BE PER IDOT STANDARD 701321. DEVIATIONS NEEDED TO ADJUST TO SITE CONDITIONS (FOR EXAMPLE, TO AVOID BLOCKING DRIVEWAYS) MUST BE APPROVED BY THE ENGINEER.
- ALL LANES SHALL BE OPEN TO TRAFFIC FROM MARCH 9TH THROUGH MARCH 30TH AND OCTOBER 5TH THROUGH OCTOBER 23RD IN 2020.

**SEQUENCE OF CONSTRUCTION**

**PRE-STAGE**

**TRAFFIC**

- TRAFFIC WILL REMAIN AS EXISTING WITH NO MODIFICATIONS TO EXISTING TRAFFIC PATTERN.

**CONSTRUCTION**

- INSTALL TEMPORARY TRAFFIC SIGNALS.
- PLACE TEMPORARY PAVEMENT MARKING ALONG ALL ROUTES.

**STAGE 1**

**TRAFFIC**

- SHIFT TRAFFIC TO THE EAST AND REDUCE TO A SINGLE 11-FOOT LANE WITH TWO-WAY OPERATIONS.
- CLOSE INTERSECTIONS OF DIAMOND STREET AND MERCHANT STREET WITH IL 72.

**CONSTRUCTION**

- REHABILITATION OF SOUTHBOUND TRAVEL LANE OF THE BRIDGE.

**STAGE 2**

**TRAFFIC**

- SHIFT TRAFFIC TO THE WEST AND MAINTAIN ONE-LANE TWO-WAY OPERATIONS.
- DIAMOND STREET AND MERCHANT STREET INTERSECTIONS TO REMAIN CLOSED.

**CONSTRUCTION**

- REHABILITATION OF THE NORTHBOUND TRAVEL LANE OF THE BRIDGE.
- REMOVE CONCRETE BARRIER ON SOUTH SIDE OF BRIDGE.

**STAGE 3**

**TRAFFIC**

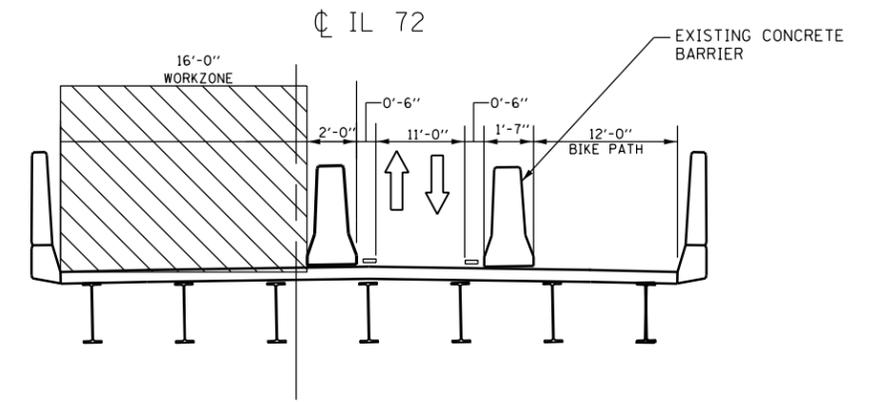
- TRAFFIC TO REMAIN AS IN STAGE 2.
- SHIFT BIKE/PED TRAFFIC WEST TO THE PORTIONS OF THE DECK REHABILITATED IN STAGE 2.

**CONSTRUCTION**

- REPLACEMENT OF BRIDGE JOINTS WITHIN EXISTING BIKE/PED PATH.
- REPLACEMENT OF BARRIER WALL ON SOUTH SIDE OF THE BRIDGE.

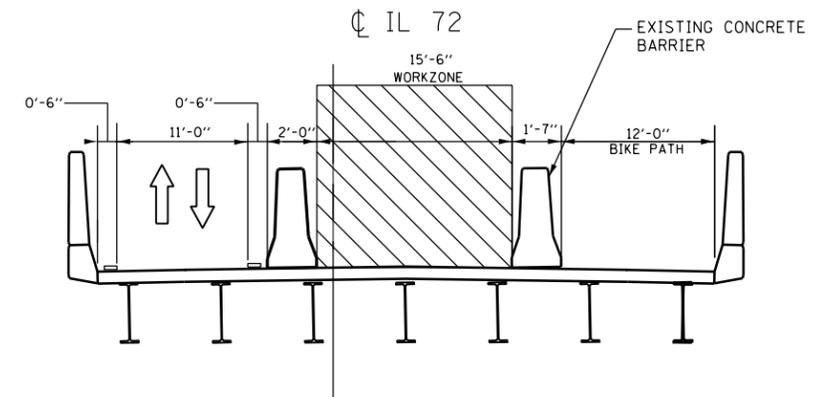
**TOTAL MAINTENANCE OF TRAFFIC - SUMMARY OF QUANTITIES**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	EACH	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	4750
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	200
70400100	TEMPORARY CONCRETE BARRIER	FOOT	900
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	900
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
78001110	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6520
78001150	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	200
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ. FT.	1900
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ. FT.	4950
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240
X2700001	TEMPORARY RUMBLE STRIPS, SPECIAL	EACH	2



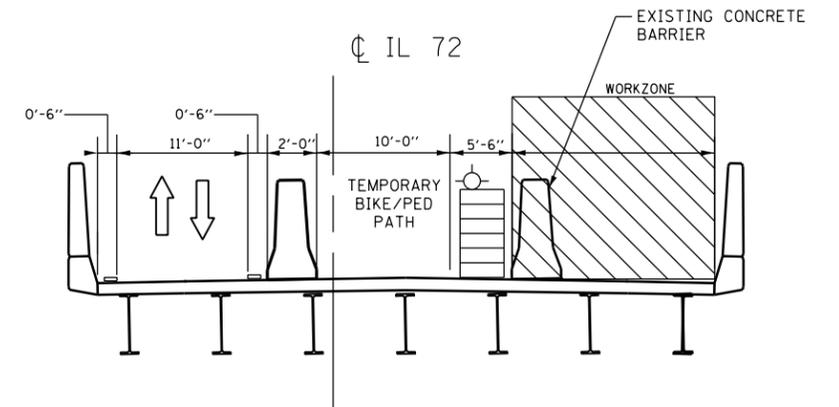
**STAGE 1 CONSTRUCTION**

STA. 8+35 TO STA. 15+46



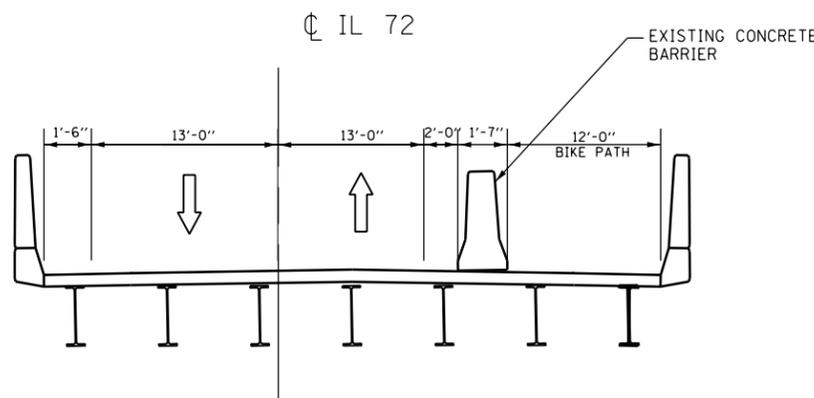
**STAGE 2 CONSTRUCTION**

STA. 8+35 TO STA. 15+46



**STAGE 3 CONSTRUCTION**

STA. 8+35 TO STA. 15+46



STRUCTURE NO. 071-0040 OVER ROCK RIVER (LOOKING NORTH)

**EXISTING TYPICAL SECTION**

STA. 8+35 TO STA. 15+46

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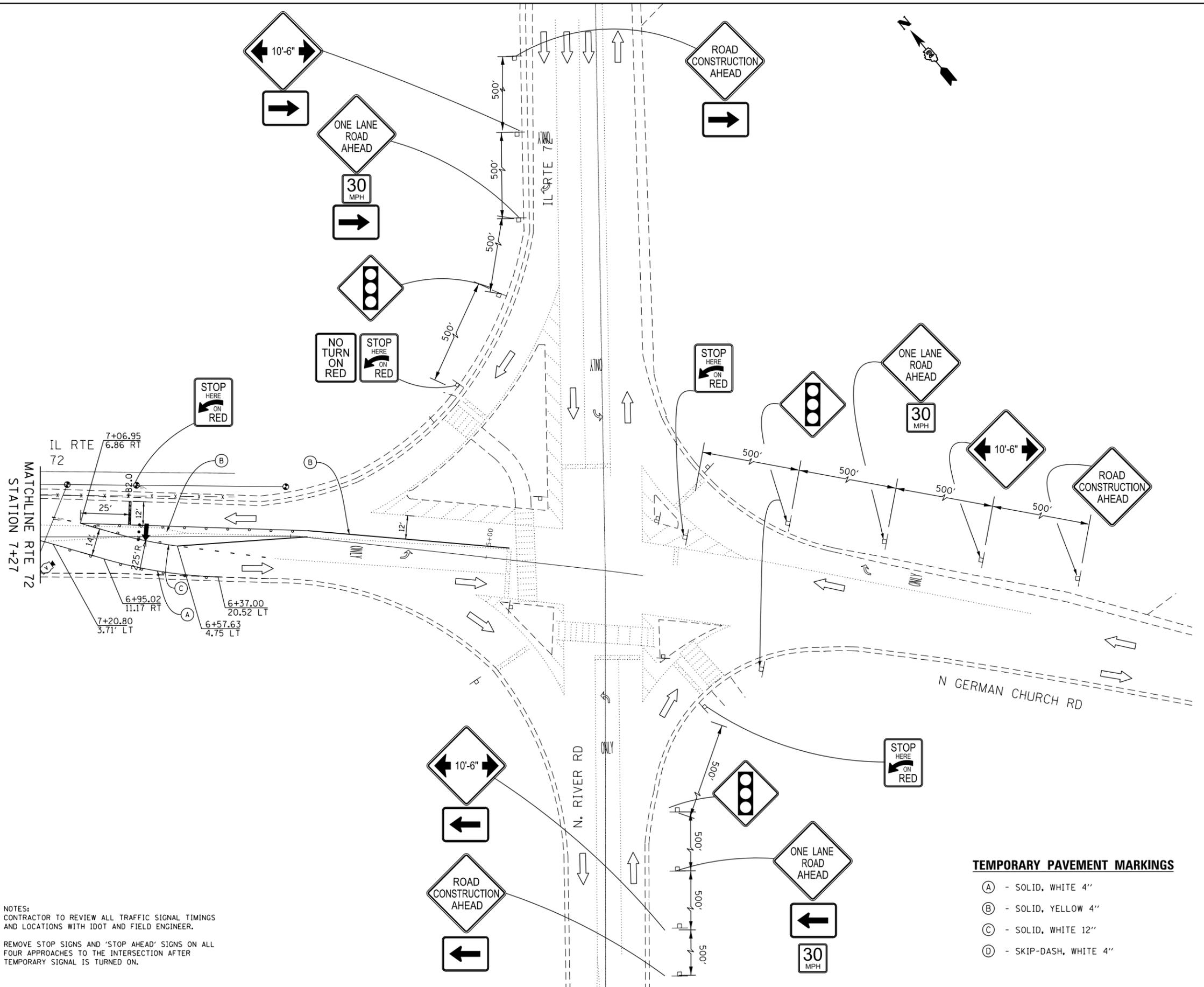
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	5
CONTRACT NO. 64N31				
ILLINOIS		FED. AID PROJECT		



NOTES:  
 CONTRACTOR TO REVIEW ALL TRAFFIC SIGNAL TIMINGS AND LOCATIONS WITH IDOT AND FIELD ENGINEER.  
 REMOVE STOP SIGNS AND 'STOP AHEAD' SIGNS ON ALL FOUR APPROACHES TO THE INTERSECTION AFTER TEMPORARY SIGNAL IS TURNED ON.

- LEGEND**
- WORK ZONE
  - TEMPORARY CONCRETE BARRIER WALL
  - TEMPORARY PAVEMENT MARKING
  - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (20' C-C UNLESS OTHERWISE NOTED)
  - TYPE III BARRICADE
  - ARROW BOARD
  - IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
  - TRAFFIC DIRECTION
  - TRAFFIC SIGN
  - EXISTING STOP BAR
  - TEMPORARY RUMBLE STRIPS
- TEMPORARY PAVEMENT MARKINGS**
- (A) - SOLID, WHITE 4"
  - (B) - SOLID, YELLOW 4"
  - (C) - SOLID, WHITE 12"
  - (D) - SKIP-DASH, WHITE 4"

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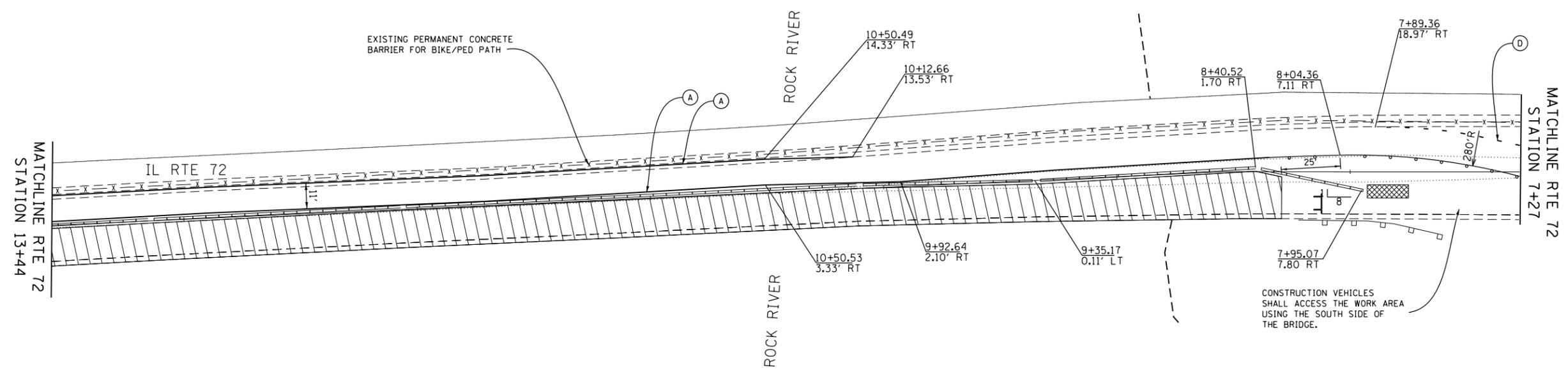
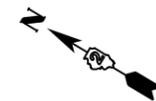
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	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN  
 STAGE 1

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA. 7+27

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	6
CONTRACT NO. 64N31				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (20' C-C UNLESS OTHERWISE NOTED)
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
- TRAFFIC DIRECTION
- TRAFFIC SIGN
- EXISTING STOP BAR
- TEMPORARY RUMBLE STRIPS

**TEMPORARY PAVEMENT MARKINGS**

- (A) - SOLID, WHITE 4"
- (B) - SOLID, YELLOW 4"
- (C) - SOLID, WHITE 12"
- (D) - SKIP-DASH, WHITE 4"

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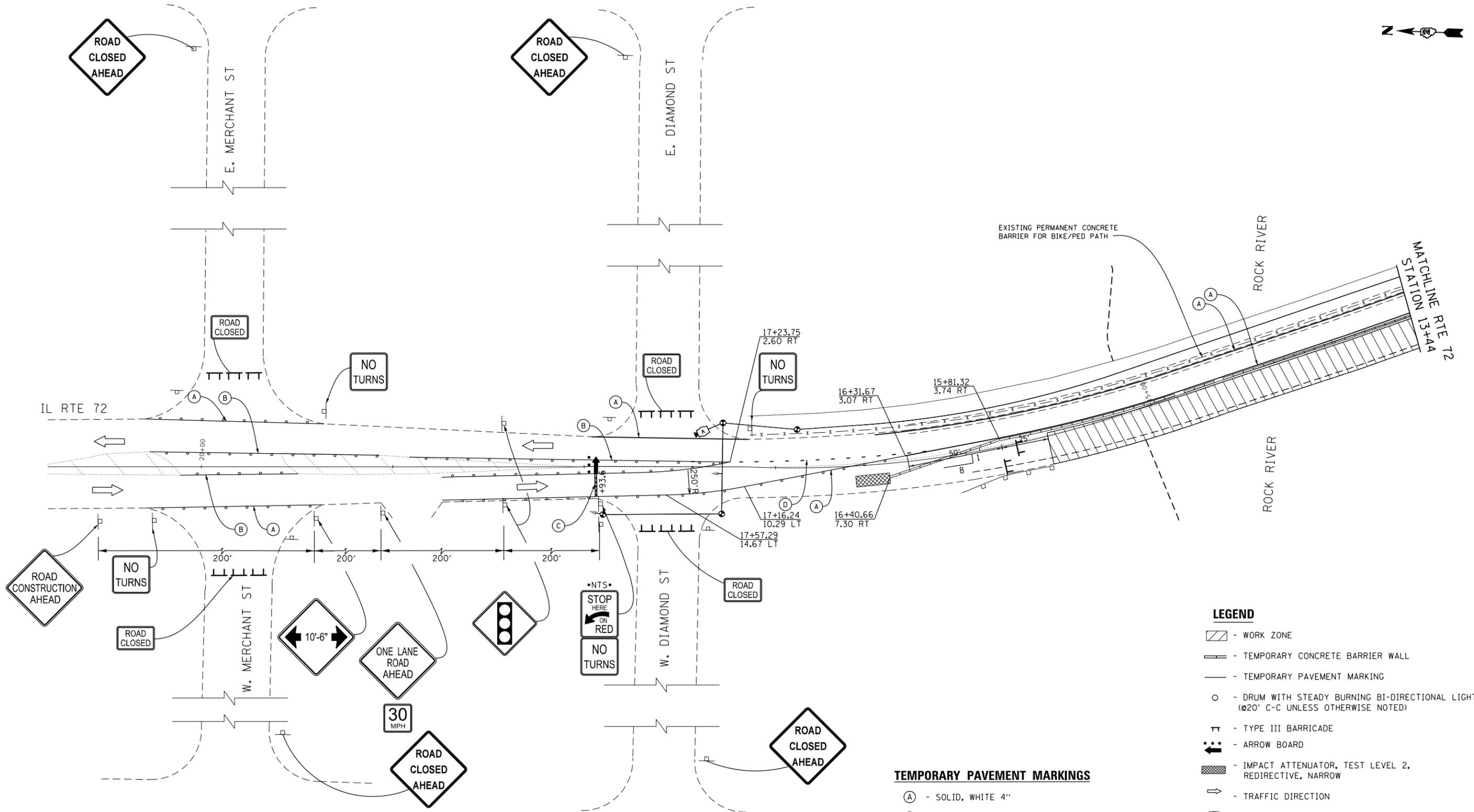
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGE 1**

SCALE: SHEET 2 OF 8 SHEETS STA. 7+27 TO STA. 13+44

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N31	



NOTES:  
CONTRACTOR TO REVIEW ALL TRAFFIC SIGNAL TIMINGS  
AND LOCATIONS WITH IDOT AND FIELD ENGINEER.

**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (20' C-C UNLESS OTHERWISE NOTED)
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
- TRAFFIC DIRECTION
- TRAFFIC SIGN
- EXISTING STOP BAR
- TEMPORARY RUMBLE STRIPS

**TEMPORARY PAVEMENT MARKINGS**

- (A) - SOLID, WHITE 4"
- (B) - SOLID, YELLOW 4"
- (C) - SOLID, WHITE 12"
- (D) - SKIP-DASH, WHITE 4"

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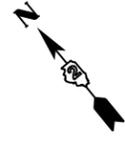
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGE 1**

SCALE: SHEET 3 OF 8 SHEETS STA. 20+80 TO STA. 20+80

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	8
CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	

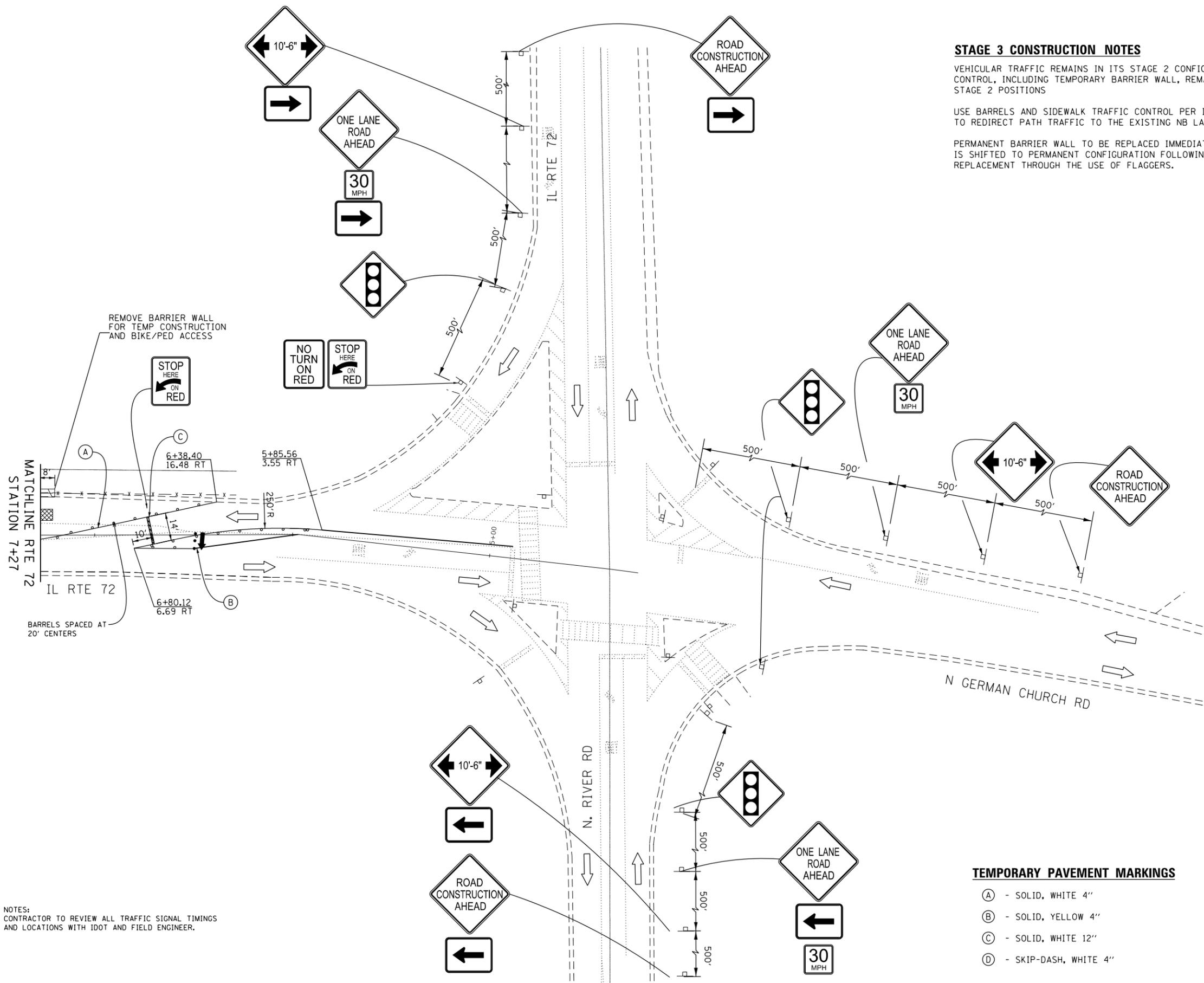


**STAGE 3 CONSTRUCTION NOTES**

VEHICULAR TRAFFIC REMAINS IN ITS STAGE 2 CONFIGURATION. TRAFFIC CONTROL, INCLUDING TEMPORARY BARRIER WALL, REMAINS IN ITS STAGE 2 POSITIONS

USE BARRELS AND SIDEWALK TRAFFIC CONTROL PER IDOT STD 701801 TO REDIRECT PATH TRAFFIC TO THE EXISTING NB LANE.

PERMANENT BARRIER WALL TO BE REPLACED IMMEDIATELY AFTER TRAFFIC IS SHIFTED TO PERMANENT CONFIGURATION FOLLOWING BRIDGE JOINT REPLACEMENT THROUGH THE USE OF FLAGGERS.



REMOVE BARRIER WALL FOR TEMP CONSTRUCTION AND BIKE/PED ACCESS

STOP HERE ON RED

NO TURN ON RED STOP HERE ON RED

MATCHLINE RTE 72 STATION 7+27

IL RTE 72

BARRELS SPACED AT 20' CENTERS

N GERMAN CHURCH RD

N. RIVER RD

NOTES:  
CONTRACTOR TO REVIEW ALL TRAFFIC SIGNAL TIMINGS AND LOCATIONS WITH IDOT AND FIELD ENGINEER.

**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (20' C-C UNLESS OTHERWISE NOTED)
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
- TRAFFIC DIRECTION
- TRAFFIC SIGN
- EXISTING STOP BAR
- TEMPORARY RUMBLE STRIPS

**TEMPORARY PAVEMENT MARKINGS**

- (A) - SOLID, WHITE 4"
- (B) - SOLID, YELLOW 4"
- (C) - SOLID, WHITE 12"
- (D) - SKIP-DASH, WHITE 4"

MODEL: 1408261001  
FILE NAME: 31115



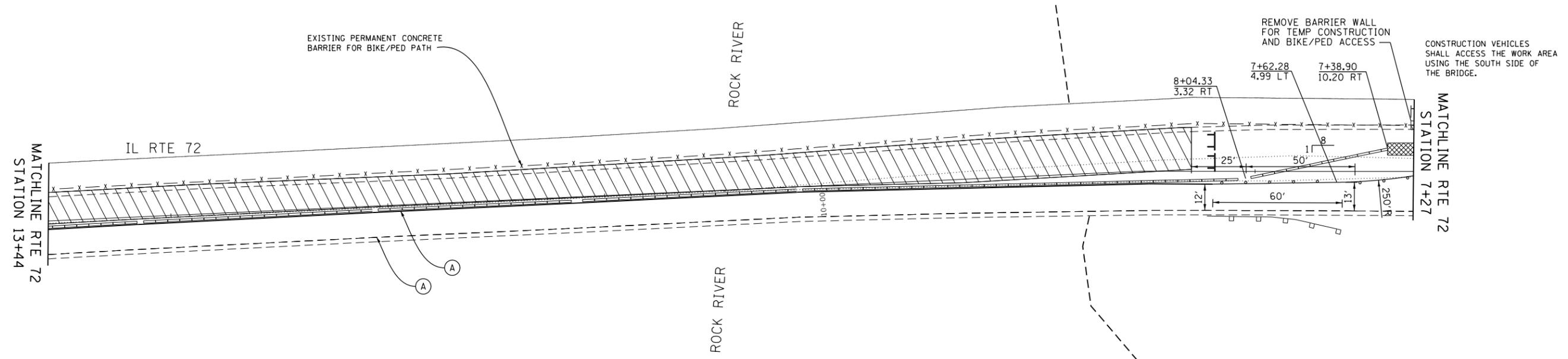
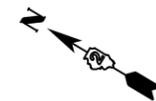
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGES 2 & 3**

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA. 7+27

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119R-1	OGLE	29	9
CONTRACT NO. 64N31				
ILLINOIS FED. AID PROJECT				



**STAGE 3 CONSTRUCTION NOTES**

VEHICULAR TRAFFIC REMAINS IN ITS STAGE 2 CONFIGURATION. TRAFFIC CONTROL, INCLUDING TEMPORARY BARRIER WALL, REMAINS IN ITS STAGE 2 POSITIONS

USE BARRELS AND SIDEWALK TRAFFIC CONTROL PER IDOT STD 701801 TO REDIRECT PATH TRAFFIC TO THE EXISTING NB LANE.

PERMANENT BARRIER WALL TO BE REPLACED IMMEDIATELY AFTER TRAFFIC IS SHIFTED TO PERMANENT CONFIGURATION FOLLOWING BRIDGE JOINT REPLACEMENT THROUGH THE USE OF FLAGGERS.

**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (@20' C-C UNLESS OTHERWISE NOTED)
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
- TRAFFIC DIRECTION
- TRAFFIC SIGN
- EXISTING STOP BAR
- TEMPORARY RUMBLE STRIPS

**TEMPORARY PAVEMENT MARKINGS**

- (A) - SOLID, WHITE 4"
- (B) - SOLID, YELLOW 4"
- (C) - SOLID, WHITE 12"
- (D) - SKIP-DASH, WHITE 4"

MODEL: 1408261001  
FILE NAME: 311215



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PLOT DATE = \$DATES	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGES 2 & 3**

SCALE: SHEET 5 OF 8 SHEETS STA. 7+27 TO STA. 13+44

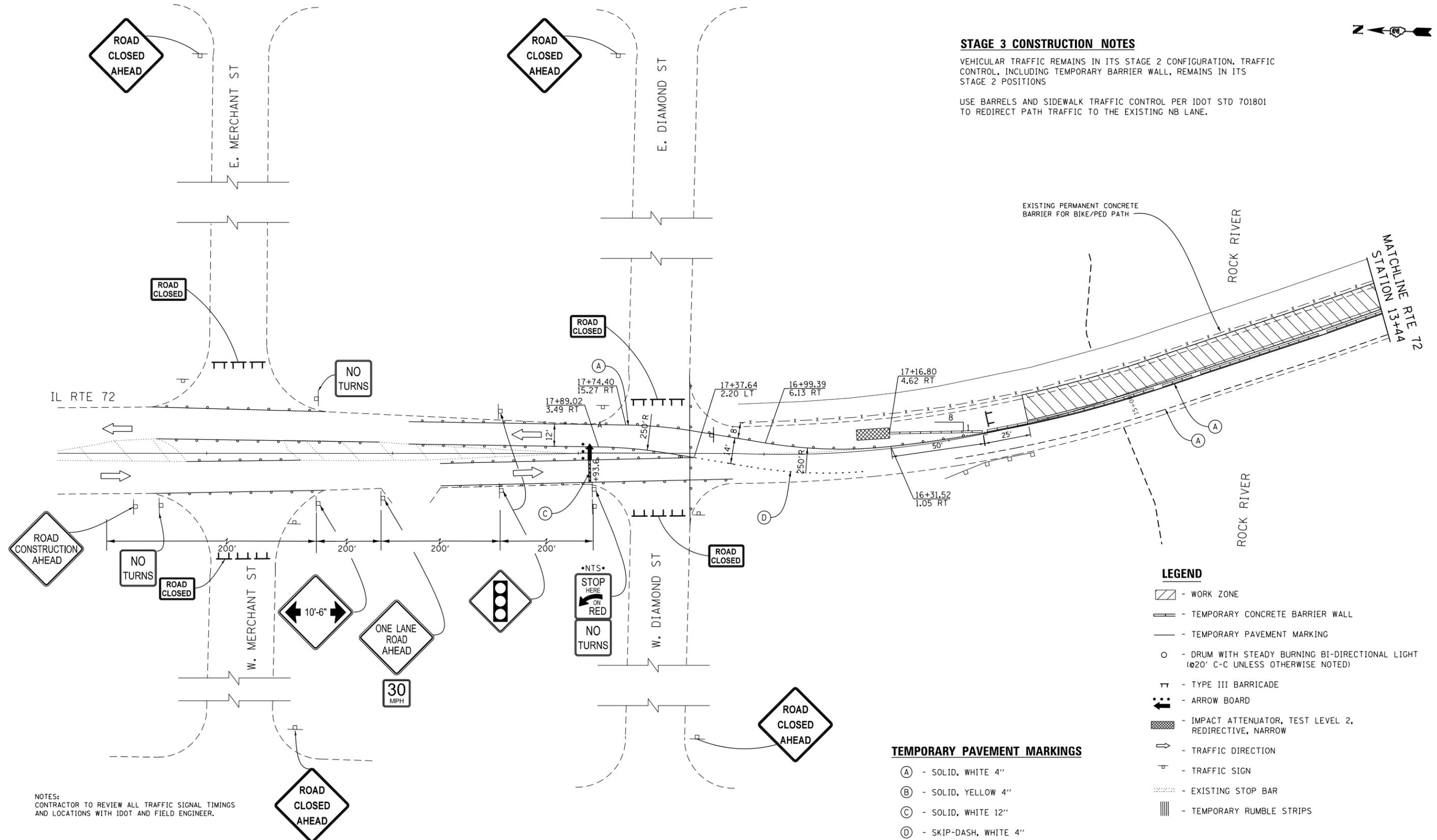
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553	119R & 119BR-1	OGLE	29	10
			CONTRACT NO. 64N31	
		ILLINOIS	FED. AID PROJECT	



**STAGE 3 CONSTRUCTION NOTES**

VEHICULAR TRAFFIC REMAINS IN ITS STAGE 2 CONFIGURATION. TRAFFIC CONTROL, INCLUDING TEMPORARY BARRIER WALL, REMAINS IN ITS STAGE 2 POSITIONS

USE BARRELS AND SIDEWALK TRAFFIC CONTROL PER IDOT STD 701801 TO REDIRECT PATH TRAFFIC TO THE EXISTING NB LANE.



**LEGEND**

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (20' C-C UNLESS OTHERWISE NOTED)
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR, TEST LEVEL 2, REDIRECTIVE, NARROW
- TRAFFIC DIRECTION
- TRAFFIC SIGN
- EXISTING STOP BAR
- TEMPORARY RUMBLE STRIPS

**TEMPORARY PAVEMENT MARKINGS**

- (A) - SOLID, WHITE 4"
- (B) - SOLID, YELLOW 4"
- (C) - SOLID, WHITE 12"
- (D) - SKIP-DASH, WHITE 4"

NOTES:  
CONTRACTOR TO REVIEW ALL TRAFFIC SIGNAL TIMINGS AND LOCATIONS WITH IDOT AND FIELD ENGINEER.

MODEL: 140DELMAMES  
FILE NAME: STILES



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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

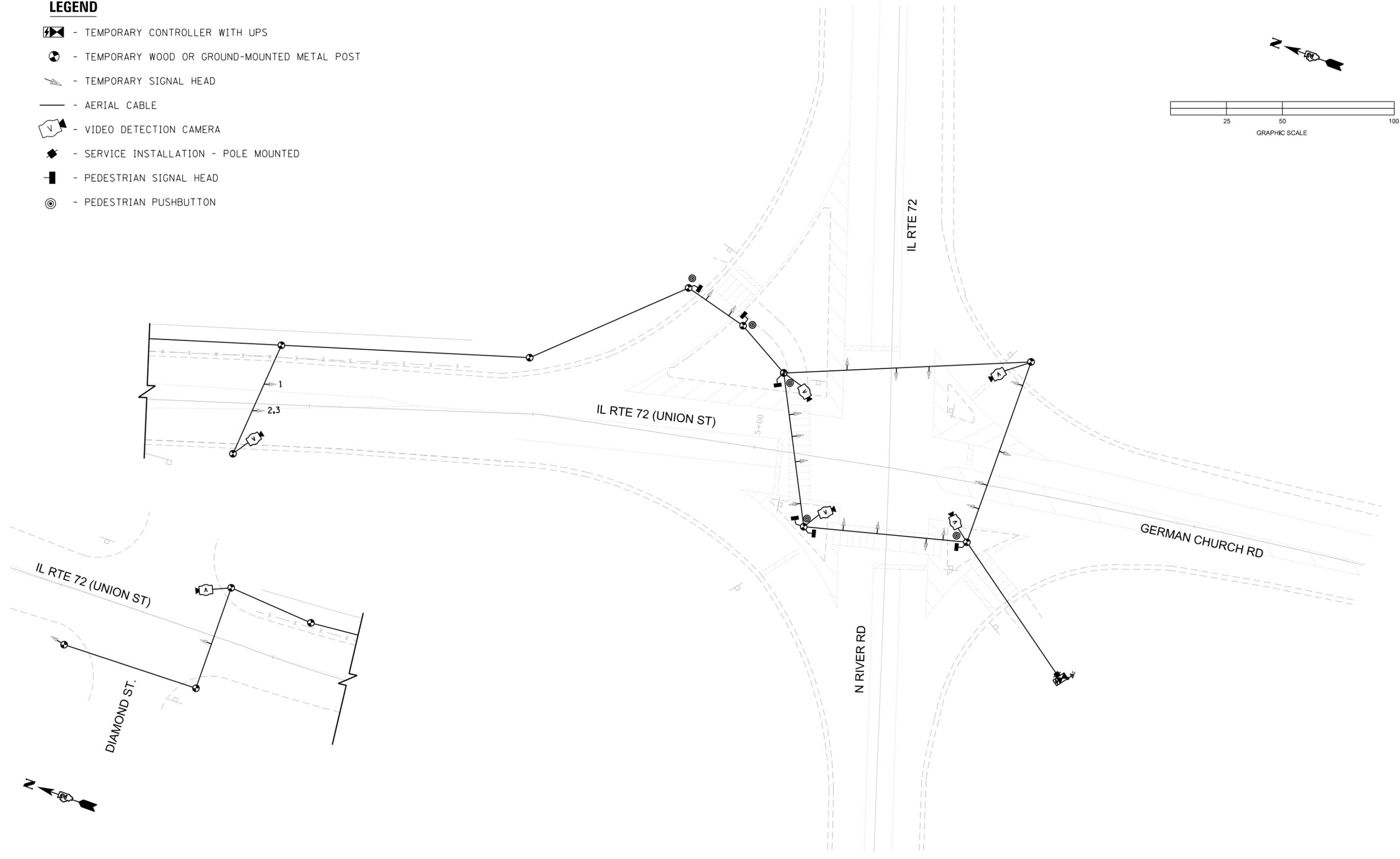
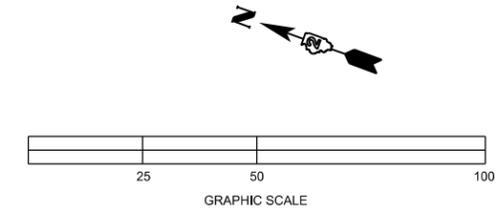
**MAINTENANCE OF TRAFFIC PLAN  
STAGES 2 & 3**

SCALE: SHEET 6 OF 8 SHEETS STA. 13+44 TO STA. 20+80

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	11
CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  - TEMPORARY CONTROLLER WITH UPS
-  - TEMPORARY WOOD OR GROUND-MOUNTED METAL POST
-  - TEMPORARY SIGNAL HEAD
-  - AERIAL CABLE
-  - VIDEO DETECTION CAMERA
-  - SERVICE INSTALLATION - POLE MOUNTED
-  - PEDESTRIAN SIGNAL HEAD
-  - PEDESTRIAN PUSHBUTTON



MODEL: 140DELMAMES  
FILE NAME: 311213



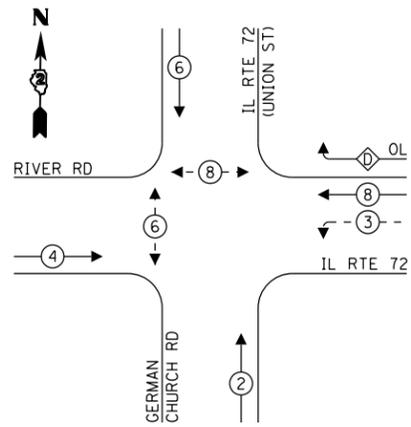
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PLOT DATE = \$DATE\$	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY TRAFFIC SIGNAL TRAFFIC SIGNAL INSTALLATION PLAN</b>	
SCALE:	SHEET 7 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N31	

**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

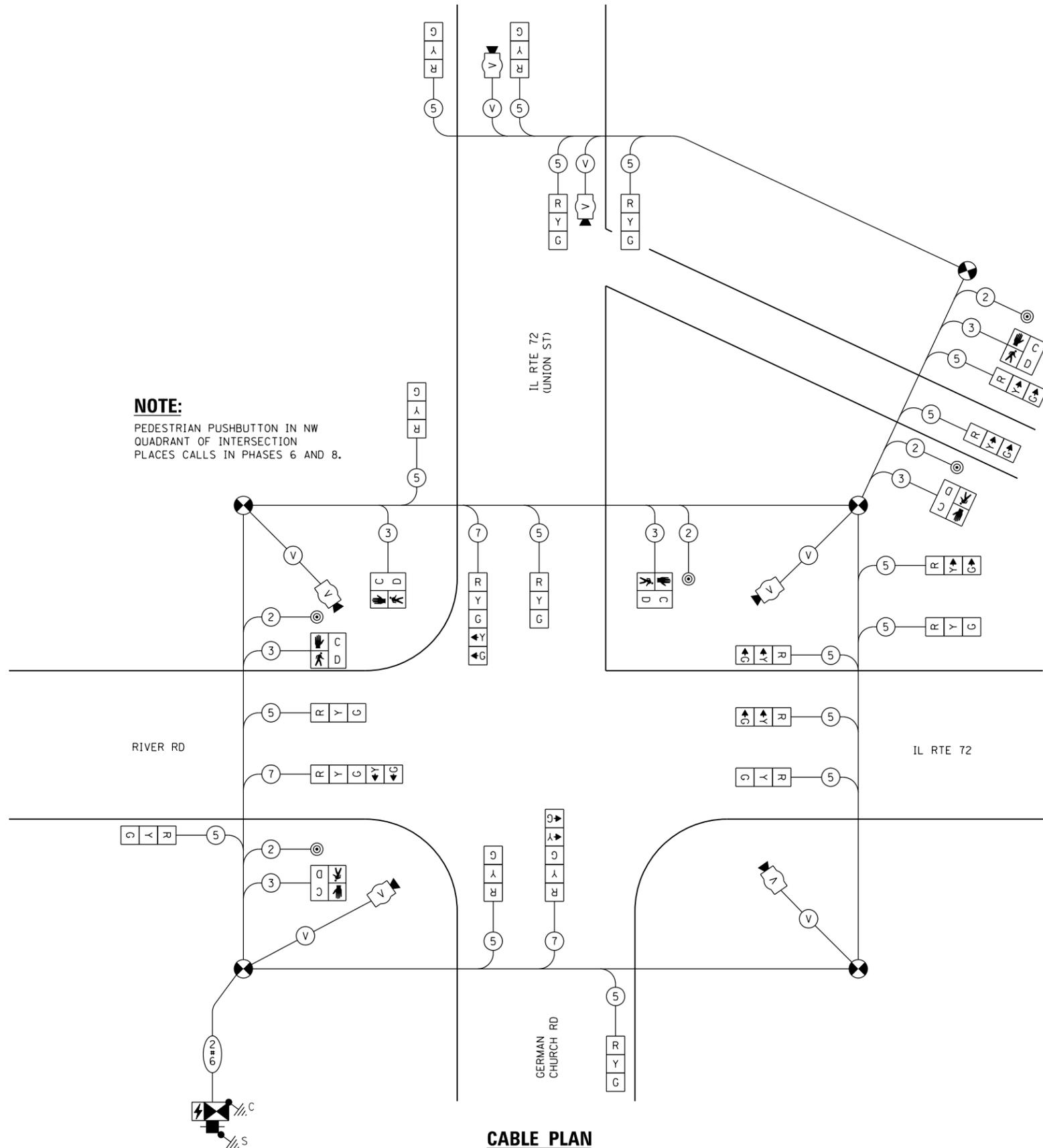
- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ ← OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	8	1

**NOTE:**

PEDESTRIAN PUSHBUTTON IN NW QUADRANT OF INTERSECTION PLACES CALLS IN PHASES 6 AND 8.



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
ARROW	16	10	30	48.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
TOTAL =				637.1

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
819 DEPOT AVENUE  
DIXON, IL 61021

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: \_\_\_\_\_  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

MODEL: S40DELENAMES  
FILE NUMBER: 5115



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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL  
CABLE PLAN AND PHASE DIAGRAM**

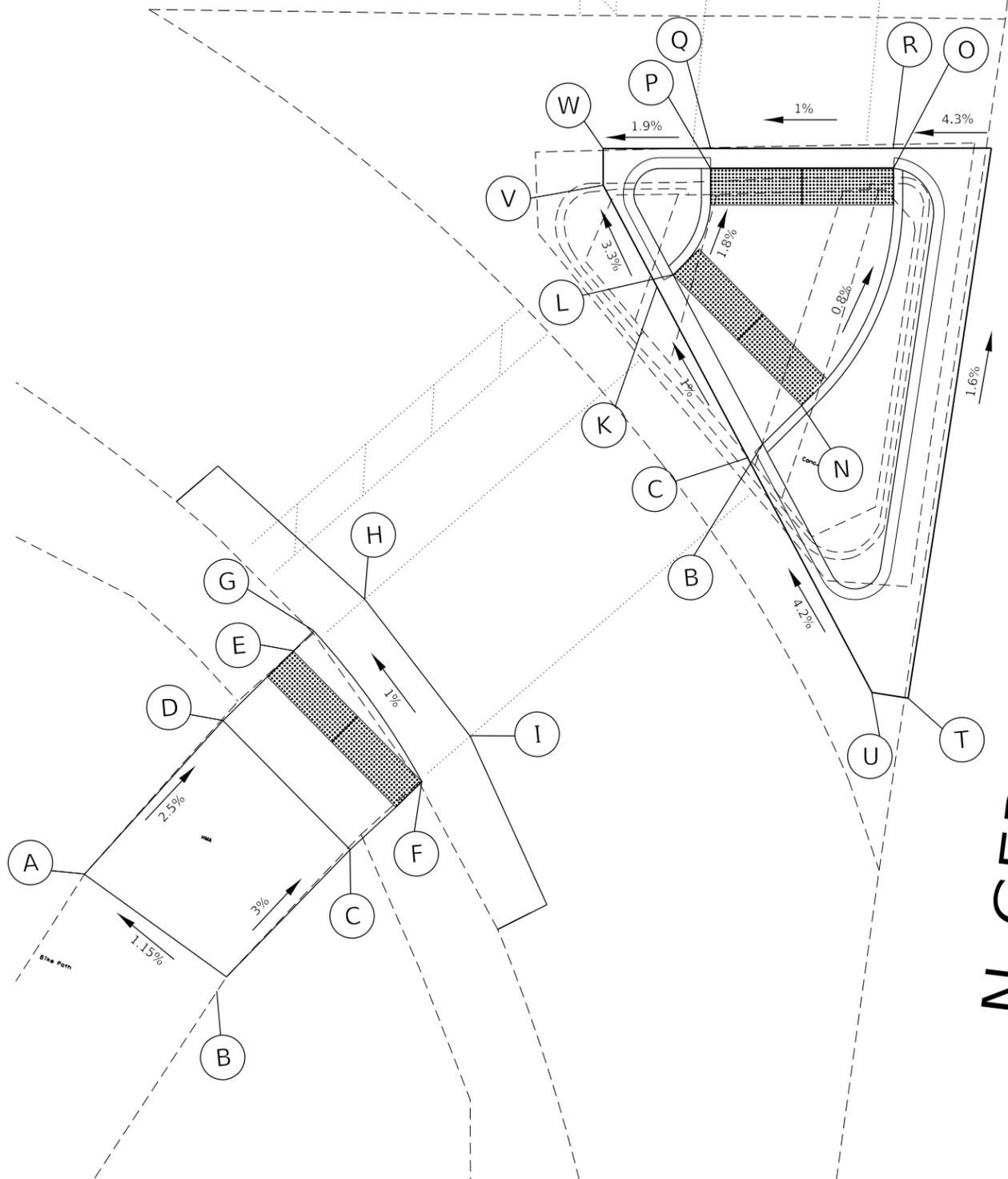
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CONTRACT NO. 64N31				

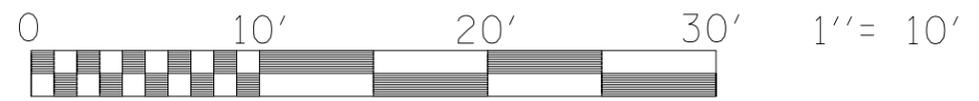
ILLINOIS FED. AID PROJECT

# N RIVER RD

# N GERMAN CHURCH / IL 2



POINT	STATION	OFFSET	SIDE	ELEVATION
A	5099+27.35	66.53	RT	697.79
B	5099+35.11	72.13	RT	697.90
C	5099+41.88	65.21	RT	698.19
D	5099+34.94	58.16	RT	698.08
E	5099+38.79	54.37	RT	698.21
F	5099+45.81	61.49	RT	698.35
G	5099+39.90	53.27	RT	698.23
H	5099+41.84	51.37	RT	698.27
I	5099+47.35	59.97	RT	698.38
J	5099+63.66	43.91	RT	698.95
K	5099+58.77	34.68	RT	698.86
L	5099+59.58	33.89	RT	698.88
M	5099+64.46	43.11	RT	698.97
N	5099+66.59	41.01	RT	698.95
O	5099+71.63	28.08	RT	698.87
P	5099+61.63	28.08	RT	698.72
Q	5099+61.63	27.00	RT	698.70
R	5099+71.63	27.00	RT	698.86
S	5099+76.96	27.00	RT	699.09
T	5099+72.39	56.98	RT	699.57
U	5099+70.42	56.67	RT	699.57
V	5099+55.76	29.00	RT	698.65
W	5099+55.76	27.00	RT	698.59
X	5099+61.63	0.01	RT	698.22
Y	5099+71.62	0.02	RT	698.37



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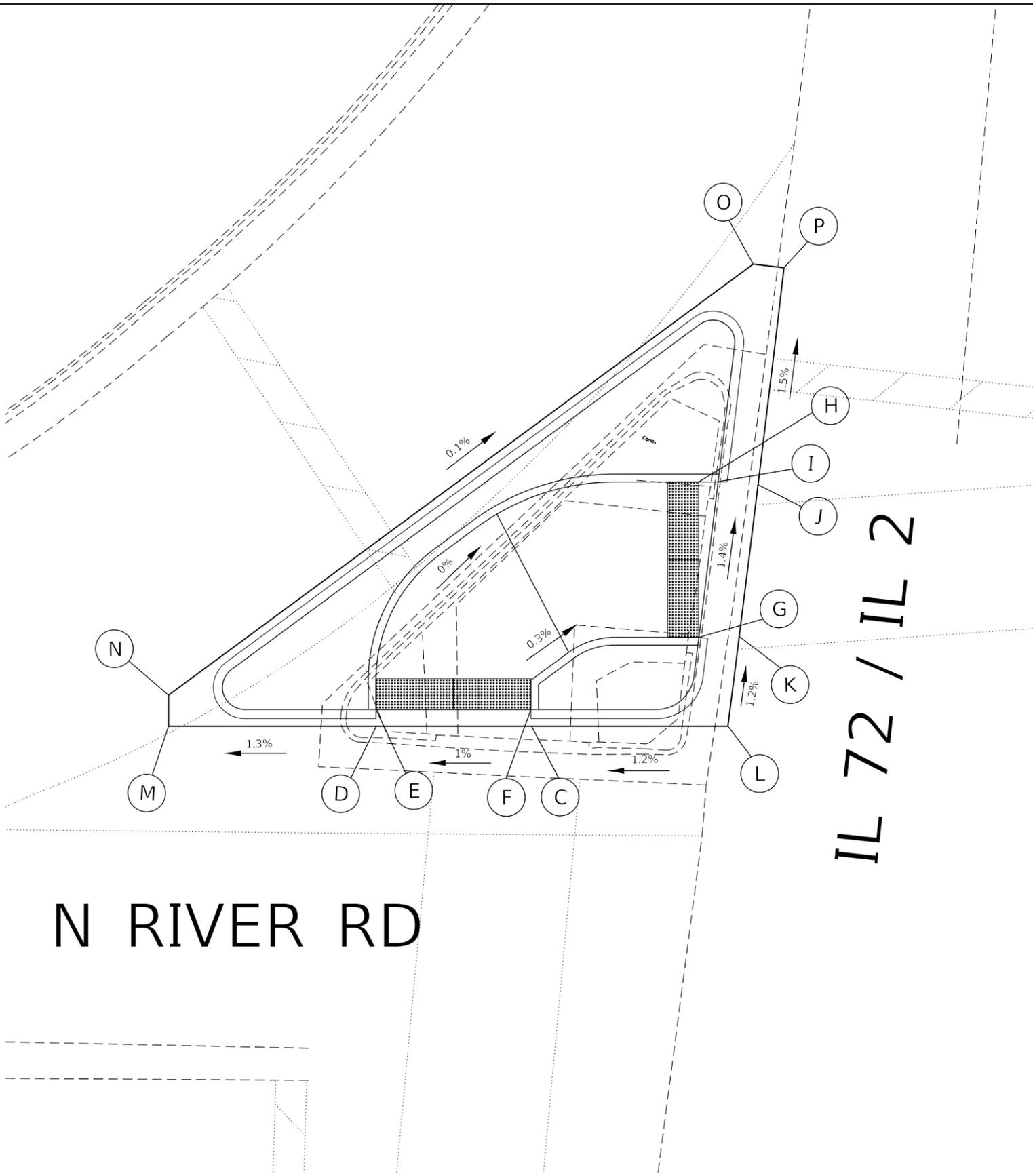
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 72 / IL 2 (BYRON)**  
**SW ADA RAMP ISLAND DETAIL**

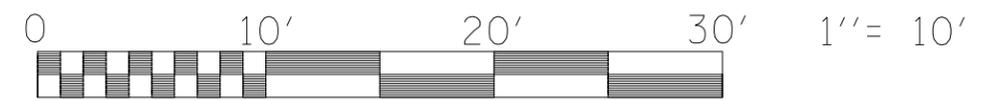
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CONTRACT NO. 64N31				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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 PROJECT: P:\pub\baronm.dwg  
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POINT	STATION	OFFSE	SID	ELEVATION
A	1284+35.65	38.37	RT	698.22
B	1284+35.65	28.41	RT	698.37
C	1284+12.98	31.61	RT	697.91
D	1284+14.28	41.53	RT	697.81
E	1284+13.19	41.67	RT	697.82
F	1284+11.90	31.75	RT	697.92
G	1284+05.87	21.58	RT	697.95
H	1284+95.86	22.82	RT	697.83
I	1283+95.71	21.58	RT	697.81
J	1283+95.39	19.00	RT	697.85
K	1284+05.54	19.00	RT	697.99
L	1284+11.35	19.00	RT	698.06
M	1284+16.02	54.81	RT	697.63
N	1284+14.00	55.07	RT	697.60
O	1283+81.41	21.00	RT	697.63
P	1283+81.41	19.00	RT	697.64



USER NAME = baeza	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

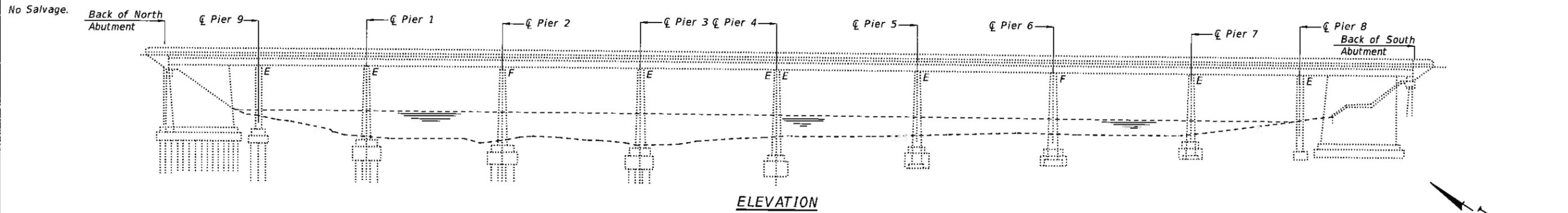
**IL 72 / IL 2 (BYRON)**  
**NW ADA RAMP / ISLAND DETAIL**

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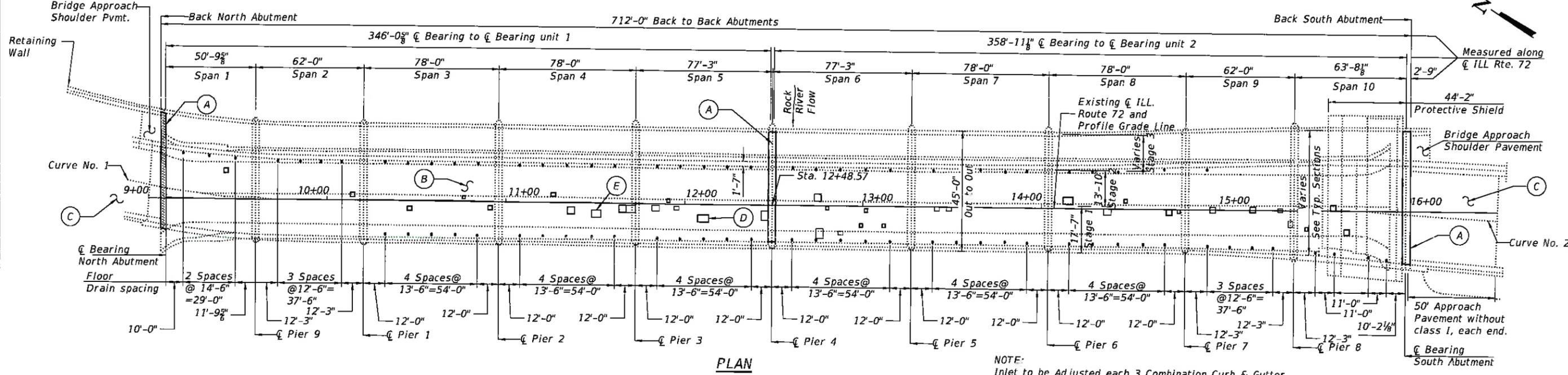
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553	119R-1198R-1	OGLE	29	15
CONTRACT NO. 64N31				
ILLINOIS FED. AID PROJECT				



Bench Mark NO.1: "R" in COREY on top of fire hydrant on the northeast corner of Illinois Routes 2 and 12, elevation 724.079  
 Existing Structure: S.N. - 071-0040, is a 36'± wide. It was built in 1939 and is 709' long. It consists of 10 spans which are of variable length in 2 continuous units of 5 spans each. The superstructure and substructure are reinforced concrete, two deep abutments and nine piers support the deck and seven arched girders. In 1988, the bridge was rehabilitated and widened to 45' to accommodate an additional pedestrian path.  
 Work shall be completed with stage construction.



ELEVATION



PLAN

NOTE:  
 Inlet to be Adjusted each 3 Combination Curb & Gutter

**LEGEND**

- (A) Replace existing expansion joint with Preformed Joint Strip Seal.
- (B) Bridge Deck Scarification, New Microsilica Concrete Overlay, Diamond Drilling, and Bridge Deck Grooving
- (C) Approach Slab Transition, see Sheet 10
- (D) Bridge Deck spalls 1.0 sq.ft. or greater, typ.
- (E) Existing patch for reference only, Engineer to verify in field.

**DESIGN STRESSES**  
 FIELD UNITS

$f'_c = 4,000$  psi (Superstructure Concrete)  
 $f'_c = 3,500$  psi (Substructure Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specification for Highway Bridges



1/22/20  
 Lic Exp 11-30-20  
 NABI FAKRODDIN  
 FOR DRAWINGS 1-4, 17-29

FILE NAME = GAS\Shared drives\p\proj\2816-002\12\000\118\Map-A-D-der-18\CAD\9-SHEETS\0284M78-SHT-GEN PLAN ELEV.dgn

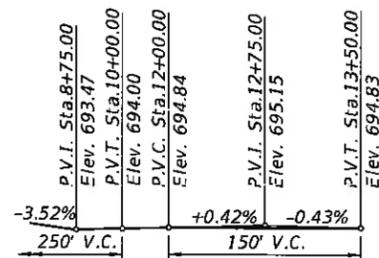
<b>AEG ATLAS ENGINEERING GROUP, LTD.</b> 3100 D... 647 751...	USER NAME = mausoni	DESIGNED - SHP/MS	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN &amp; ELEVATION</b> <b>S.N. 071-0040</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - MJL	REVISED			553	119R & 119BR-1	OGLE	29	17
PLOT DATE = 1/22/2020	DRAWN - SHP/MS	REVISED		SHEET NO. 1 OF 13 SHEETS		CONTRACT NO. 64N31		ILLINOIS FED. AID PROJECT		

**SCOPE OF WORK**

1. Scarify 3/4" from bridge deck slab, and 2 1/2" from approach slab.
2. Remove and replace deck joints, and Deck Slab repair.
3. Apply Bridge Deck Microsilica Concrete Overlay, 2 1/2" to the bridge deck slab.
4. Perform 1/4" diamond grinding to the 2 1/2" Bridge Deck Microsilica Concrete Overlay and reconstructed transverse expansion joints.
5. Perform Bridge Deck Grooving (Longitudinal) to the Bridge Deck Microsilica Concrete Overlay 2 1/2".
6. Apply protective coat to reconstructed deck and approach areas.
7. Perform concrete repairs at piers.
8. Replace pavement markings on the top of deck.
9. Removal and reinstallation of guardrail at curb and Gutter.
10. Protective Shield to be installed at south abutment.

**NOTES:**

Vertical and Horizontal geometry, elevations, and stations are base on 1988 construction plans



**EXISTING PROFILE GRADE**

**CURVE DATA**

CURVE NO.1	CURVE NO.2
P.C. STA. 7+31.13	P.C. STA. 15+26.40
Δ = 19° 14'42"	Δ = 19° 27'33"
D = 7° 45'00"	D = 2° 00'00"
R = 739.30'	R = 2,864.79'
T = 125.34'	T = 491.21'
L = 248.32'	L = 972.96'
SE = 35%	SE = 1.8%
See attained from Sta.10+63.45 to Sta.9+37.45	See attained from Sta.14+42.40 to Sta.15+58.40

**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 GR. 36, unless otherwise noted. 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.

Reinforcement bars designated (E) shall be epoxy coated.

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.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs. When the deck is poured at an ambient temperature other than 50° F.

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 based on the unit price bid for the work.

Synthetic fibers shall be added to the bridge deck microsilica concrete overlay, see special provisions.

HMA median and bike path shall follow section 408 of the Standard Specifications.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	19.8
Concrete Superstructure	Cu. Yd.	19.8
* Protective Coat	Sq. Yd.	3,338
Reinforcement Bars, Epoxy Coated	Pound	3,039
Bar Splicers	Each	96
Preformed Joint Strip Seal	Foot	160
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2,673
Bridge Deck Scarification, 3/4"	Sq. Yd.	2,495
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	368
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	2,863
Diamond Grinding (Bridge Section)	Sq. Yd.	2,863
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq. Ft.	587
Deck Slab Repair (Full Depth Type 1)	Sq. Yd.	99.8
Inlet to be Adjusted	Each	3
Combination Curb & Gutter, Type B-6.24	Foot	100
Combination Curb & Gutter Removal	Foot	100
Silicone Joint Sealer, 1"	Foot	66
Polymer Concrete	Cu. Ft.	7.30
Protective Shield	Sq. Yd.	277

\* On New Deck and Approaches Surface And Top & Inside Face Of New Parapet Concrete Only.

FILE NAME = G:\Shared drives\Projects\2016-0802 02 IDOT\1.8 Work D-dt-18\CONTRACTS\2016-0802 02 IDOT\1.8 Work D-dt-18\GENERAL NOTES 17A.dgn

**AEG ATLAS ENGINEERING GROUP, LTD.**  
 3100 Dundas St. W. Unit 105, Mississauga, ON L4R 1P2  
 905-277-7700 (Fax) 905-277-7701 (Cell)

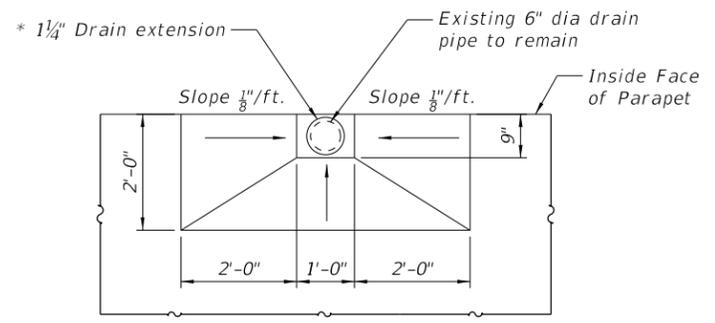
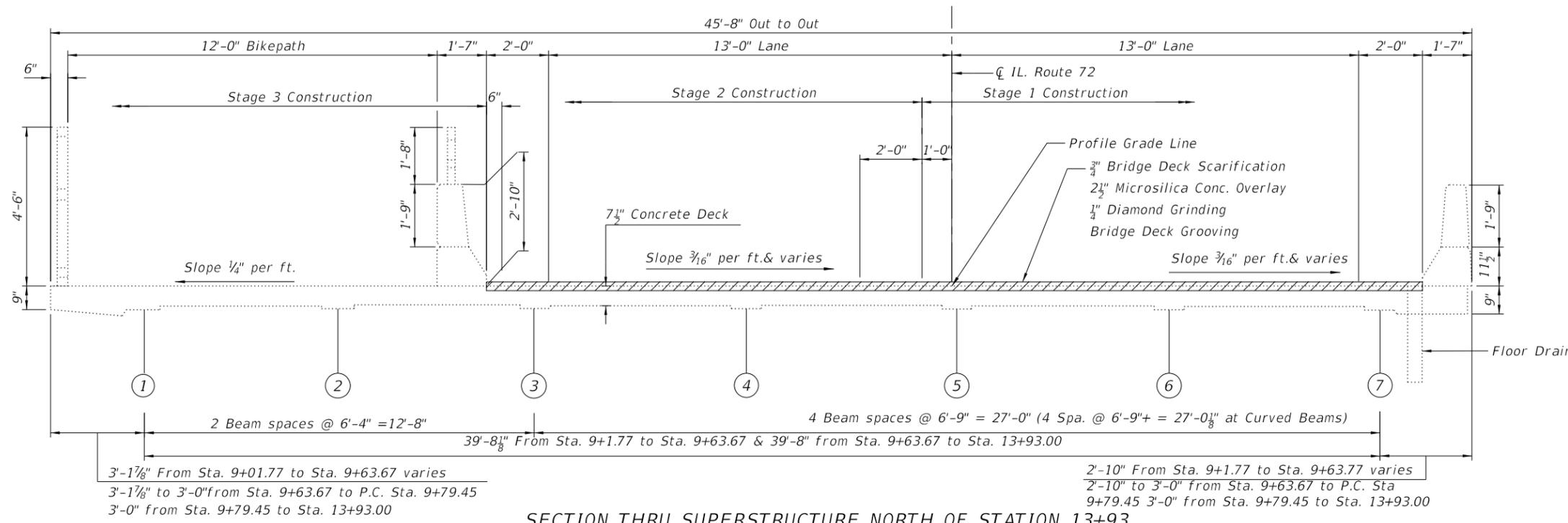
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

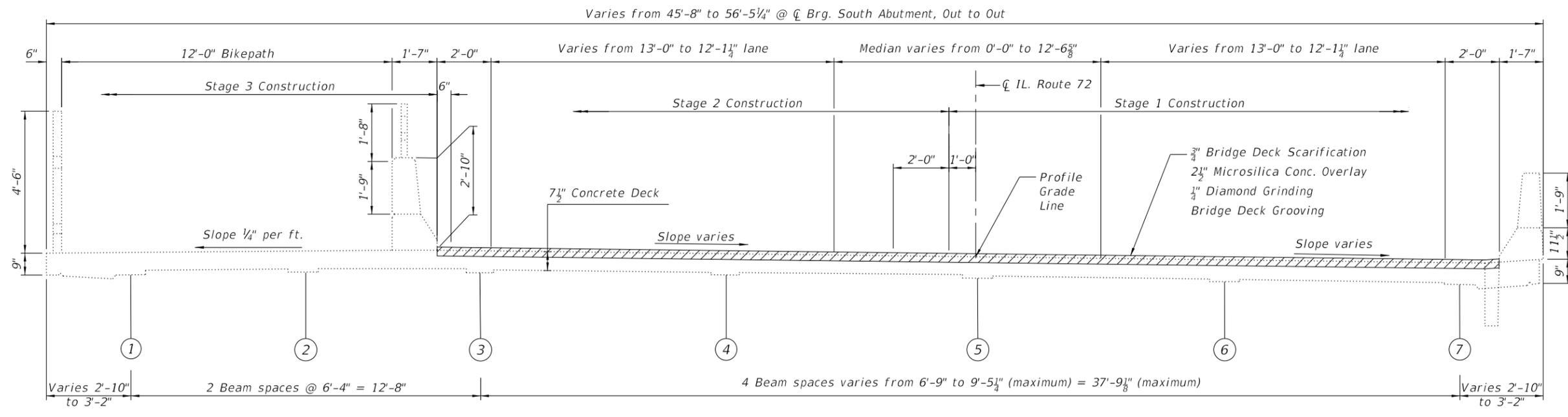
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
555	119R & 1198R-1	OGLE	29	17A
CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	



\* Drain extension shall not be paid for separately, but included in cost of Bridge Deck Microsilica Concrete Overlay"

**SECTION THRU SUPERSTRUCTURE NORTH OF STATION 13+93**  
(Looking South)



**SECTION THRU SUPERSTRUCTURE SOUTH OF STATION 13+93**  
(Looking South)

FILE NAME = G:\Shared drives\Projects\2015-0002 02 IDOT\11.0 Work Order 10\CADD\SHEETS\2015-0002-02-001-001-CROSS SECTION.dgn

**AEG ATLAS ENGINEERING GROUP, LTD.**  
3100 Dundas Road, Suite 502 | Northbrook, IL 60062  
847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = spotel  
DESIGNED - SHP/MS  
CHECKED - MJL  
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CHECKED - MJL  
PLOT SCALE =  
PLOT DATE = 12/23/2019

DESIGNED - SHP/MS  
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CHECKED - MJL

REVISED  
REVISED  
REVISED  
REVISED

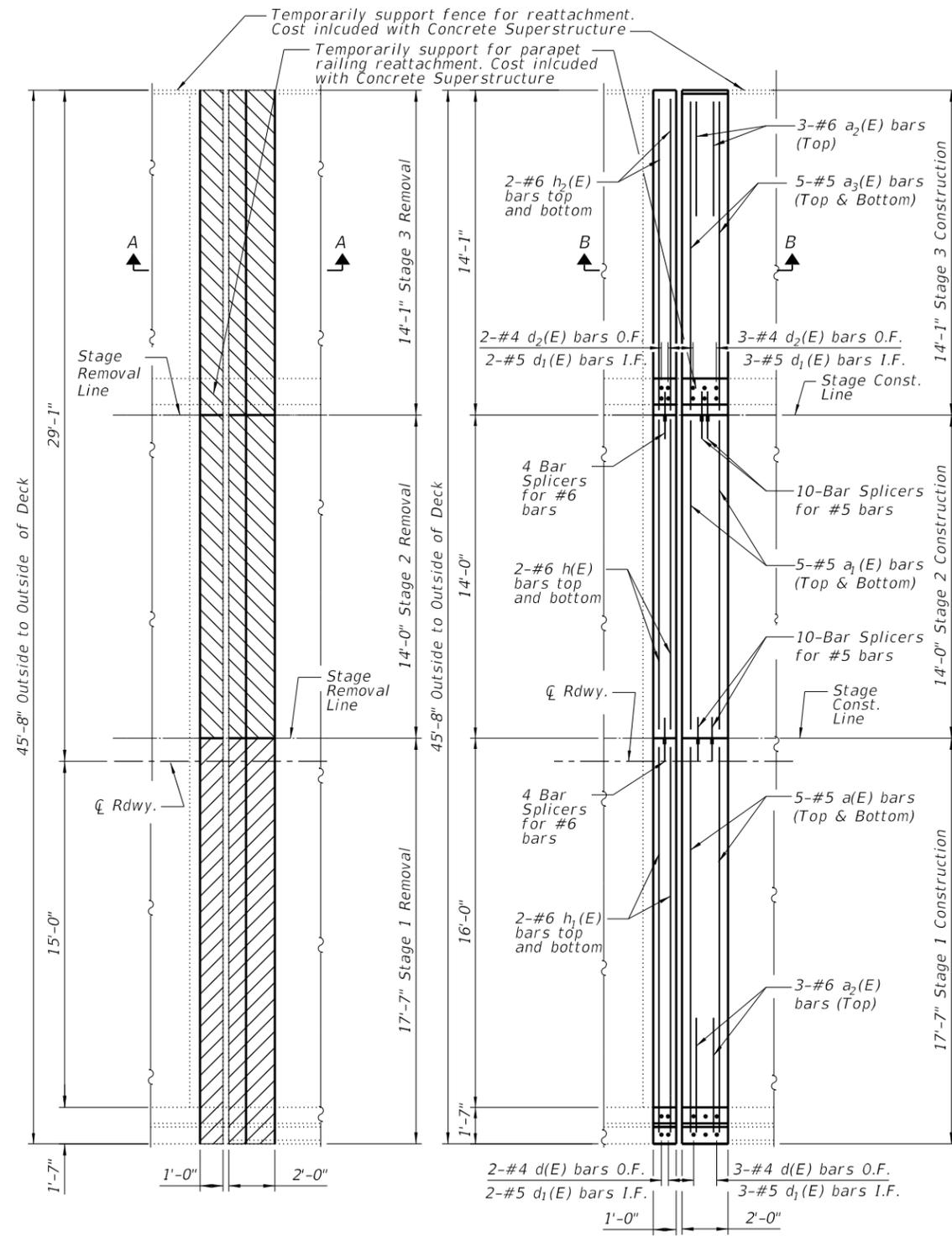
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SHEET NO. 2 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	18
<b>CONTRACT NO. 64N31</b>				

ILLINOIS FED. AID PROJECT



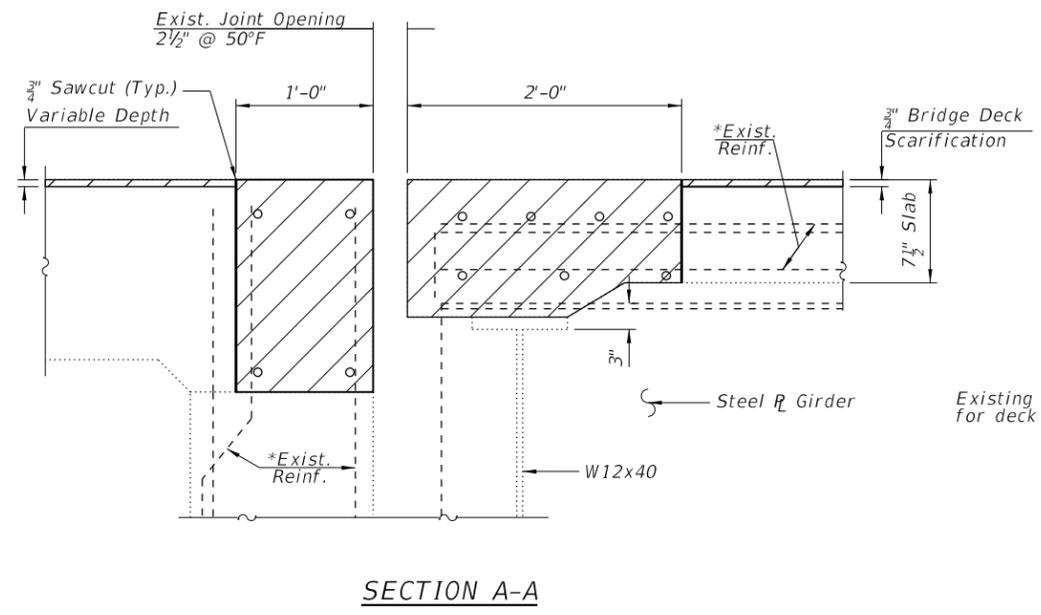
**CONCRETE REMOVAL AT NORTH ABUTMENT**

**CONCRETE REPLACEMENT AT NORTH ABUTMENT**

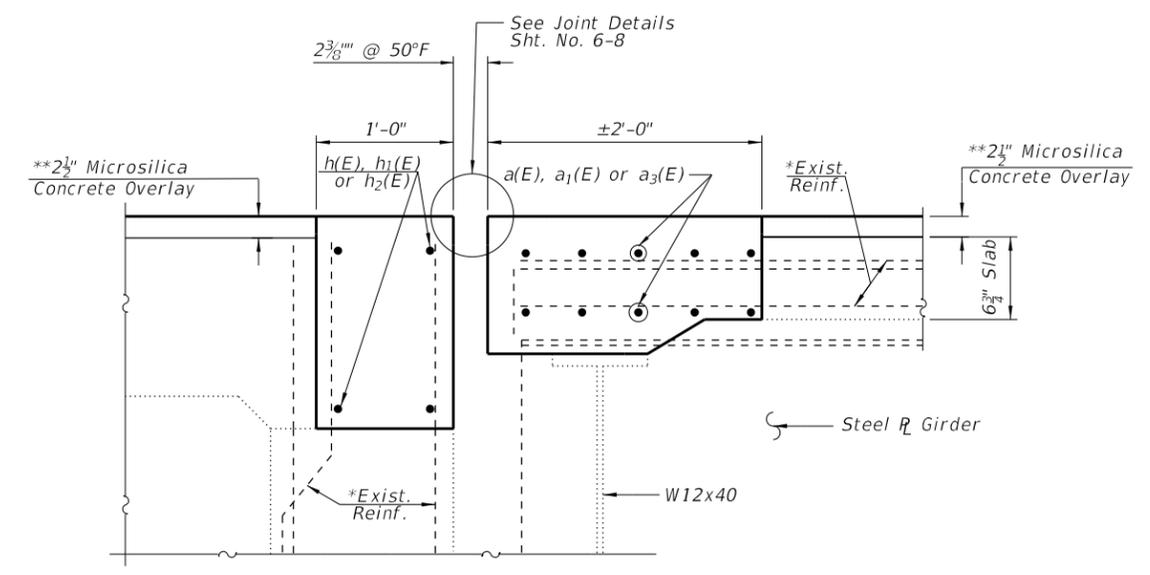
\* Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with concrete removal.

\*\*Prior to 1/4" Diamond Grinding

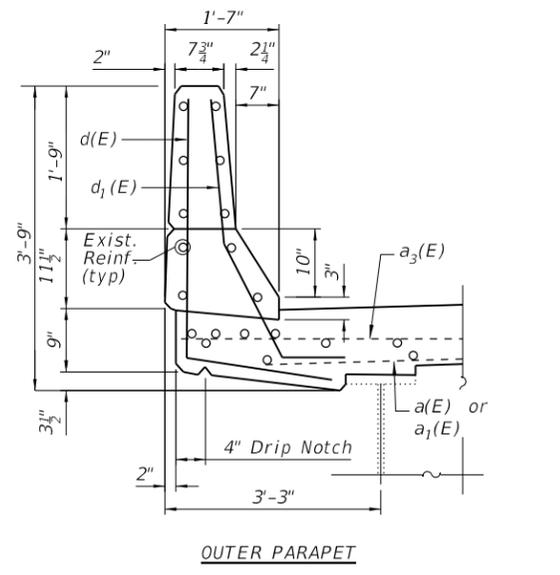
Notes:  
 Hatched areas indicate concrete removal. Cost of replacement of concrete included with concrete superstructure.  
 For parapet details see Sheet 6.  
 For Bar details see Sheet 5.



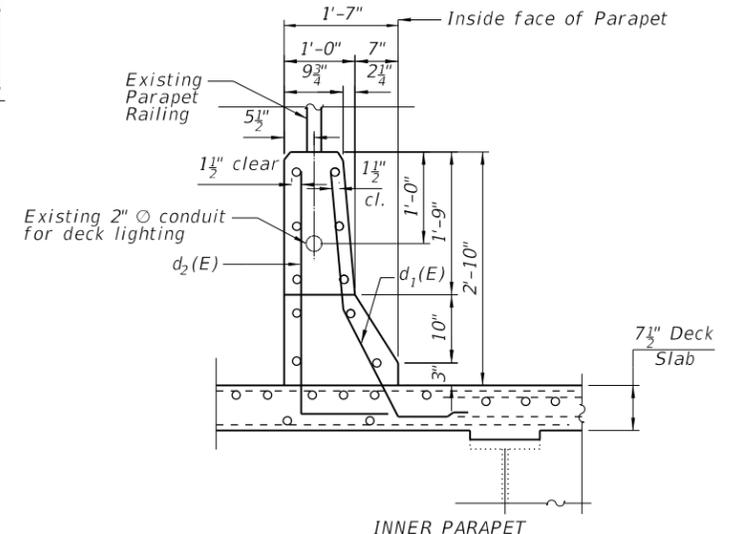
**SECTION A-A**



**SECTION B-B**



**OUTER PARAPET**



**INNER PARAPET**

**TYPICAL PARAPET SECTIONS**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	10	#5	17'-1"	—
a1(E)	10	#5	13'-8"	—
a2(E)	6	#6	6'-10"	—
a3(E)	10	#5	13'-9"	—
d(E)	5	#4	5'-2"	L
d1(E)	10	#5	3'-11"	L
d2(E)	5	#4	4'-4"	L
h(E)	4	#6	13'-8"	—
h1(E)	4	#6	17'-1"	—
h2(E)	4	#6	13'-9"	—
Concrete Removal		Cu Yd	5.8	
Concrete Superstructure		Cu Yd	5.8	
Bar Splicers		Each	28	
Reinforcement Bars, Epoxy Coated		Pound	866	

For Bar Bend details see sheet 5

FILE NAME = G:\Shared drives\Projects\2015-0002 02 ID01\11.0 Work Order 10\CADD\SHEET\SD26478-SHT-NORTH ABUTMENT JOINT.dgn

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 3100 Dundas Road, Suite 502 | Northbrook, IL 60062  
 847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = spotel  
 PLOT SCALE =  
 PLOT DATE = 12/23/2019

DESIGNED - SHP/MS  
 CHECKED - MJL  
 DRAWN - SHP/MS  
 CHECKED - MJL

REVISED  
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 REVISED

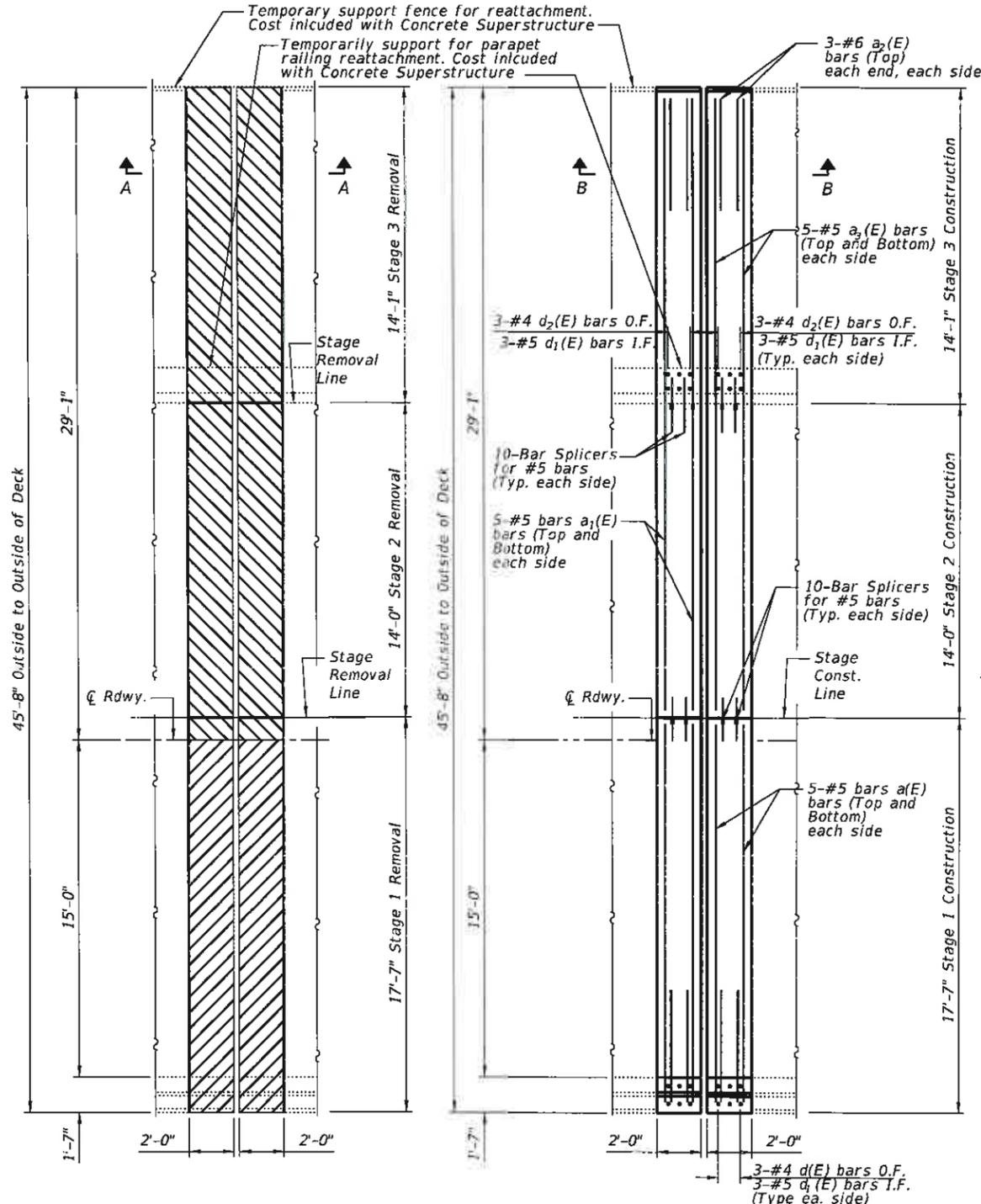
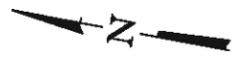
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS  
 AT NORTH ABUTMENT**

SHEET NO. 3 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119R-1	OGLE	29	19
CONTRACT NO. 64N31				

ILLINOIS FED. AID PROJECT

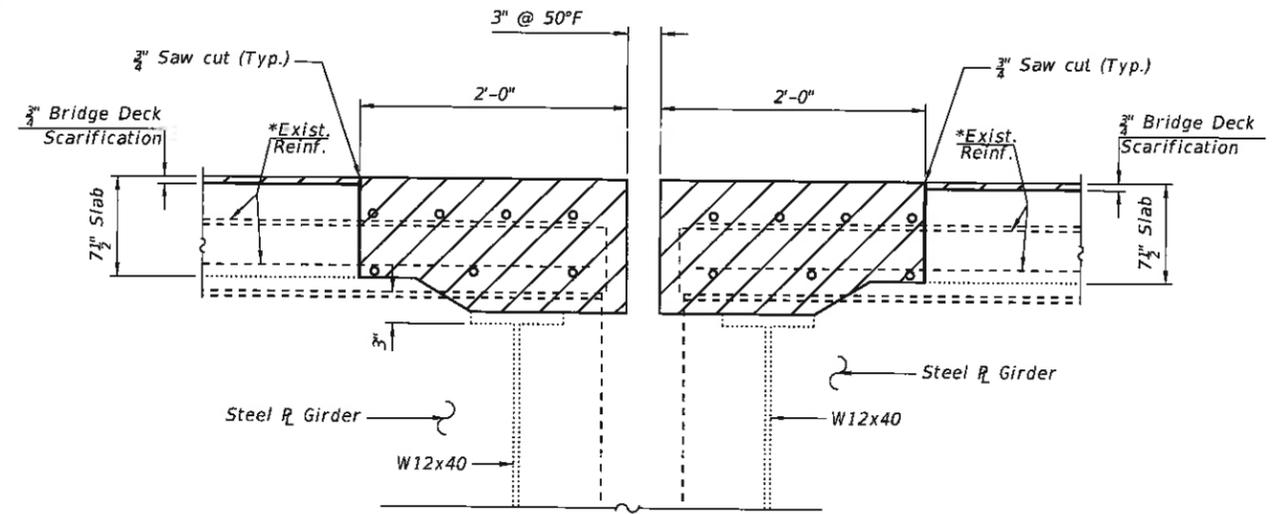


**CONCRETE REMOVAL AT  
PIER 4**

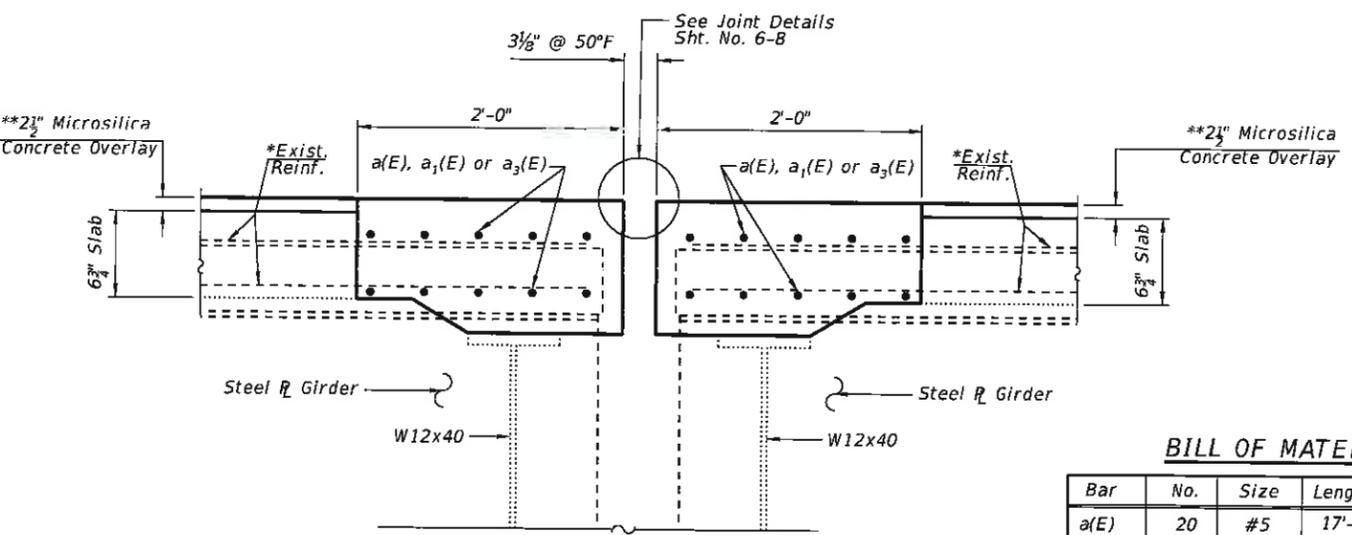
**CONCRETE REPLACEMENT AT  
PIER 4**

\* Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with concrete removal.

\*\*Prior to 1/4" Diamond Grinding



**SECTION A-A**



**SECTION B-B**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	20	#5	17'-1"	—
a1(E)	20	#5	13'-8"	—
a2(E)	12	#6	6'-10"	—
a3(E)	20	#5	13'-9"	—
d(E)	6	#4	5'-2"	L
d1(E)	12	#5	3'-11"	L
d2(E)	6	#4	4'-4"	L
Concrete Removal			Cu Yd	6.8
Concrete Superstructure			Cu Yd	6.8
Bar Splicers			Each	40
Reinforcement Bars, Epoxy Coated			Pound	1139

Notes:  
Hatched areas indicated concrete removal.  
Cost of replacement of concrete included with Concrete Superstructure.  
For parapet details & bar bending diagrams see Sheet 5 and Sheet 6.

For bar bend details see sheet 5

FILE NAME = G:\Shared\Drawings\Projects\2015-2016\02 IDOT\1148 Work Order\18\ACAD\ASSETS\120478-SIT-PIER 4 JOINT.dgn

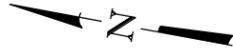
**AE G ATLAS ENGINEERING GROUP LTD.**  
310 Main Street, Suite 202, Northbrook, IL 60062  
630.421.1000 | 630.421.7530

USER NAME = msamoni	DESIGNED - SHP/MS	REVISED
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PLOT DATE = 1/17/2020	DRAWN - SHP/MS	REVISED
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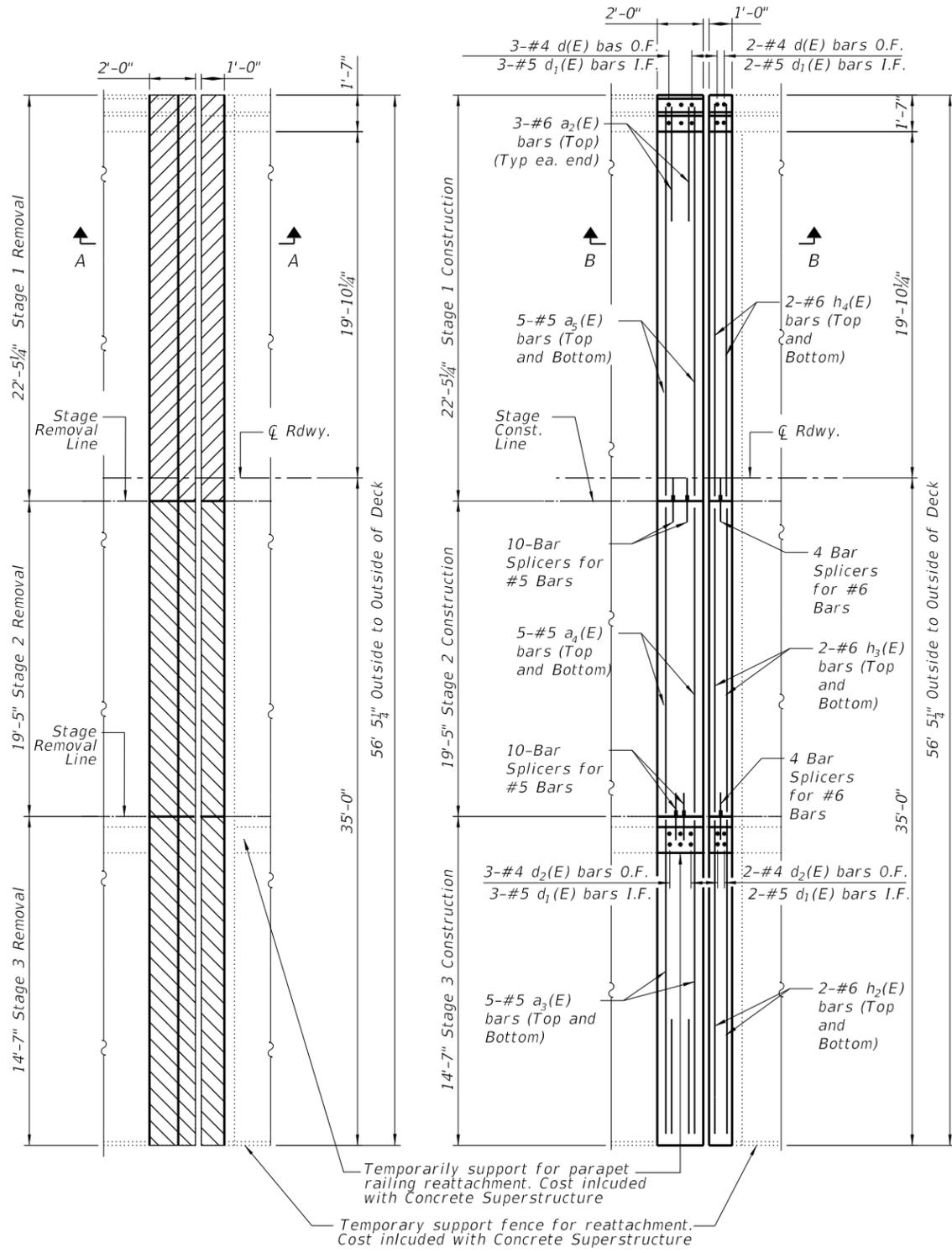
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS  
AT PIER 4**

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	

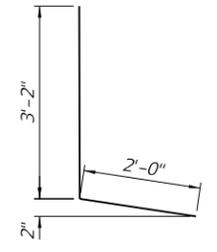
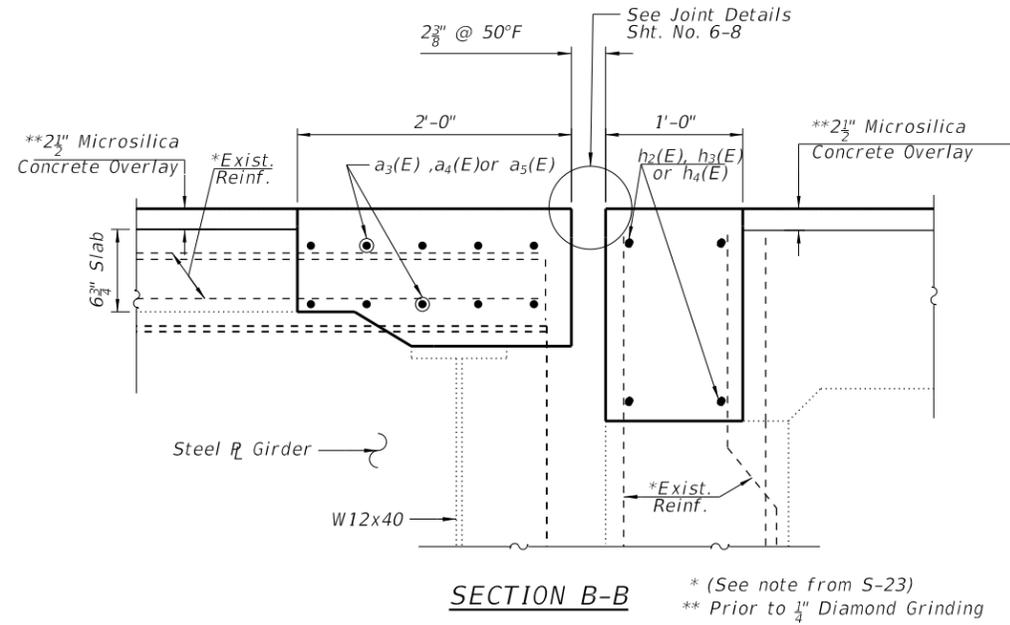
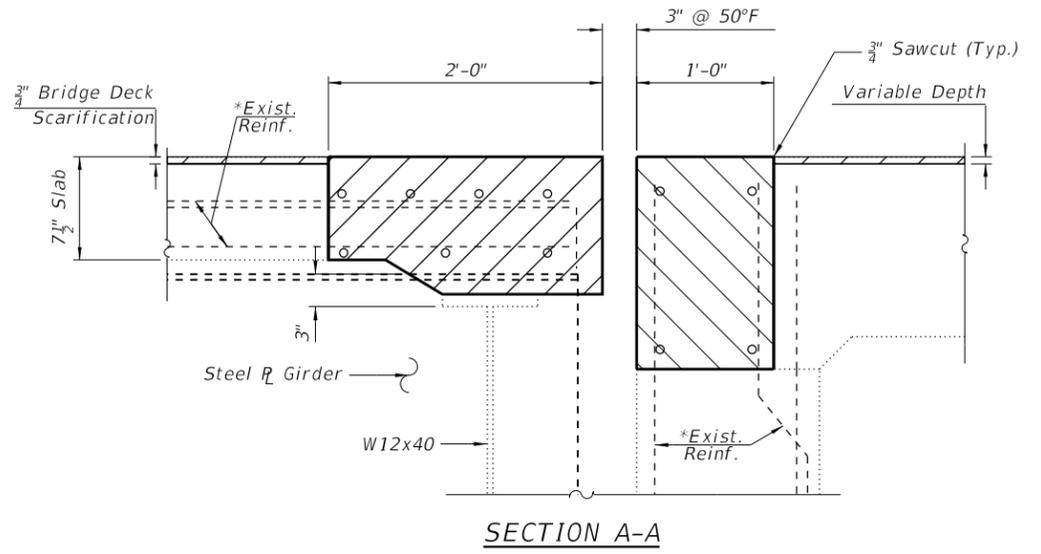


Notes:  
 Hatched areas indicates concrete removal.  
 Cost of replacement of concrete included  
 with concrete superstructure.  
 For parapet details, see sheet 6.

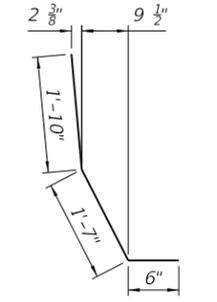


**CONCRETE REMOVAL AT SOUTH ABUTMENT**

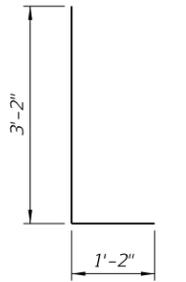
**CONCRETE REPLACEMENT AT SOUTH ABUTMENT**



**BAR d(E)**



**BAR d1(E)**



**BAR d2(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>2</sub> (E)	6	#6	6'-10"	—
a <sub>3</sub> (E)	10	#5	13'-9"	—
a <sub>4</sub> (E)	10	#5	19'-1"	—
a <sub>5</sub> (E)	10	#5	21'-11"	—
d(E)	5	#4	5'-2"	L
d <sub>1</sub> (E)	10	#5	3'-11"	L
d <sub>2</sub> (E)	5	#4	4'-4"	L
h <sub>2</sub> (E)	4	#6	13'-9"	—
h <sub>3</sub> (E)	4	#6	19'-1"	—
h <sub>4</sub> (E)	4	#6	21'-11"	—
Concrete Removal			CU YD	7.2
Concrete Superstructure			CU YD	7.2
Bar Splicers			EACH	28
Reinforcement Bars, Epoxy Coated			POUND	1,034

FILE NAME = G:\Shared drives\Projects\2015-0002 02 ID01\1.0 Work Order 10\CADD\SHEET\2015-0002-SOUTH ABUTMENT JOINT.dgn

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 3100 Dundas Road, Suite 502 | Northbrook, IL 60062  
 847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = spotel  
 PLOT SCALE =  
 PLOT DATE = 12/23/2019

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 CHECKED - MJL

REVISED  
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 REVISED

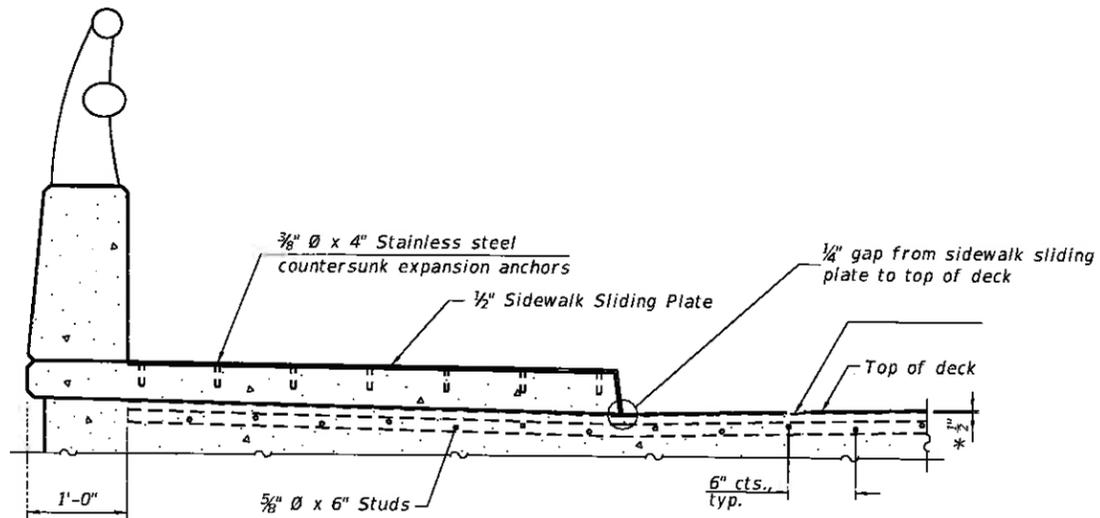
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS  
 AT SOUTH ABUTMENT**

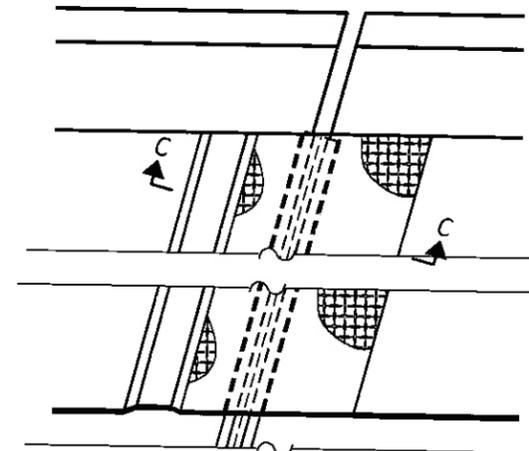
SHEET NO. 5 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	

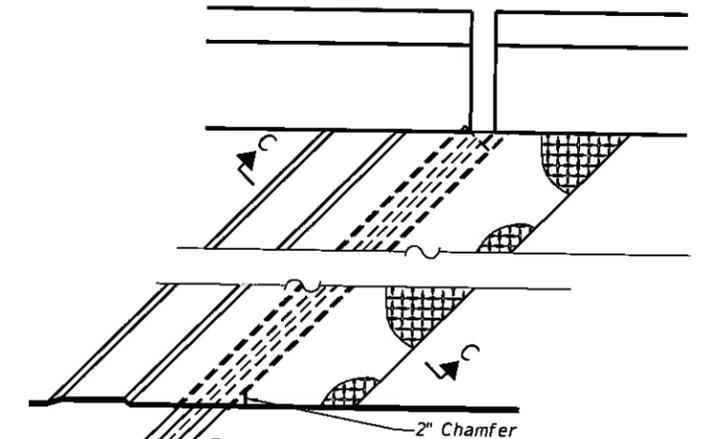




**ELEVATION AT RAISED SIDEWALK**

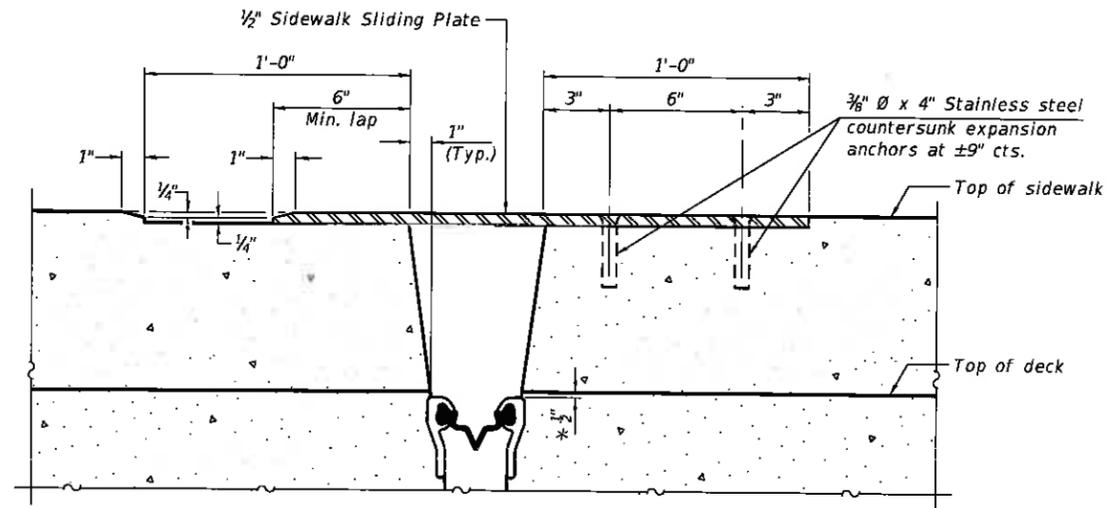


(FOR SKEWS  $\leq 30^\circ$ )

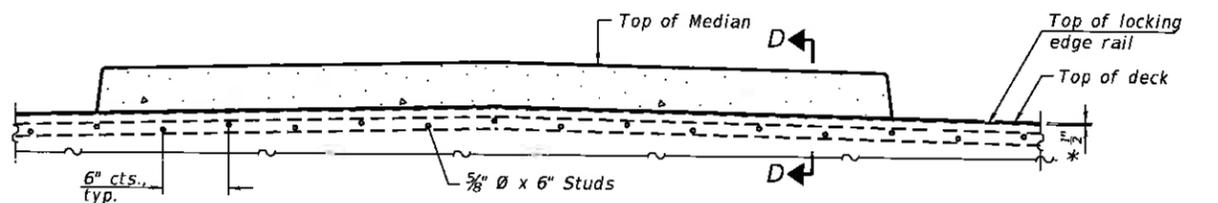


(FOR SKEWS  $> 30^\circ$ )

**PLAN AT RAISED SIDEWALK**



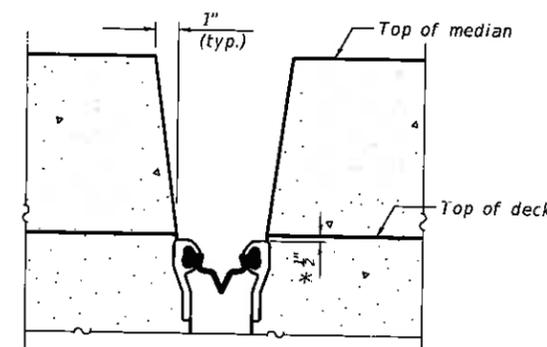
**SECTION C-C**



**ELEVATION AT MEDIAN**

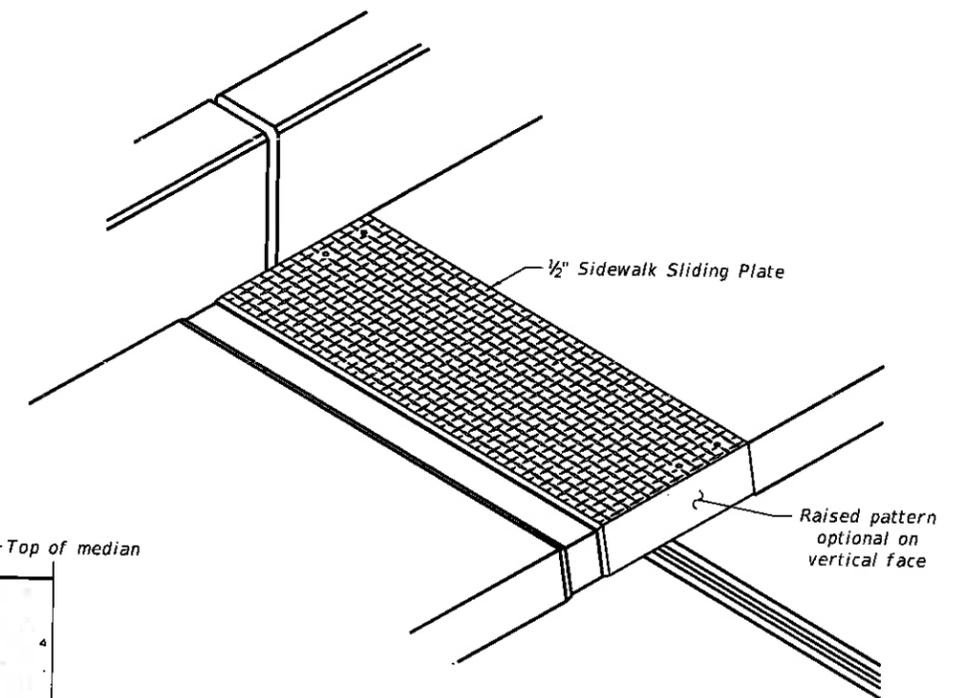
For skewes  $> 30^\circ$ , chamfer acute corners 2" similar to sidewalk.

\* Prior to 1/4" Diamond Grinding



**SECTION D-D**

(at Rt.  $Z$ 's)



**TRIMETRIC VIEW**

(Sheet 2 of 3)

FILE NAME = G:\Shared\dr:\va\p\projects\2016-0802 02 IODTN\8 Mark Order\B\C\KOD\SHETS\026-1076-SHT-JNT\_Details 2 of 3.dgn

**AEG ATLAS ENGINEERING GROUP, LTD.**

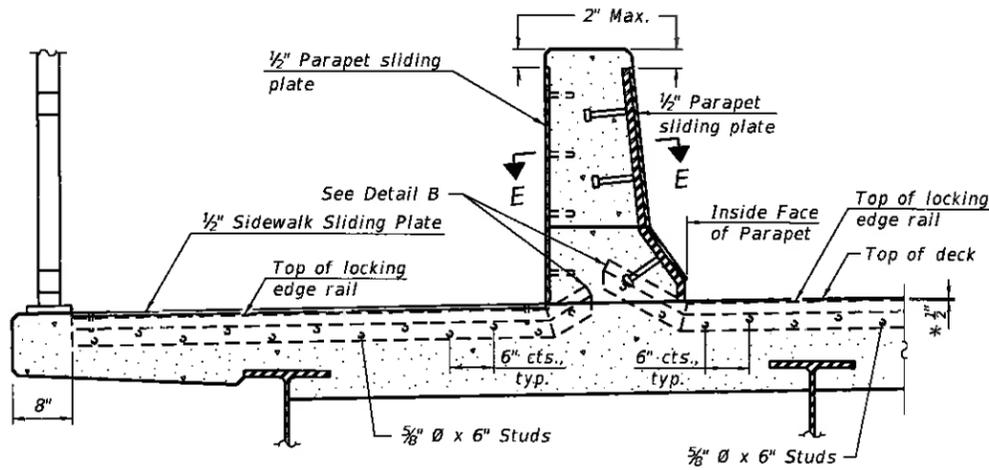
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PLUT DATE = 1/22/2020	DRAWN - SHP/MS	REVIS
	CHECKED - MJL	REVIS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK**

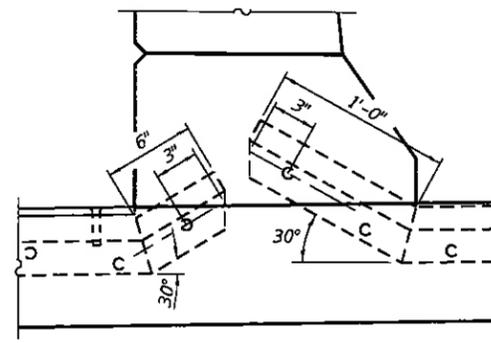
SHEET NO. 7 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119R-1	OGLE	29	23
				CONTRACT NO. 64N31
ILLINOIS FED. AID PROJECT				



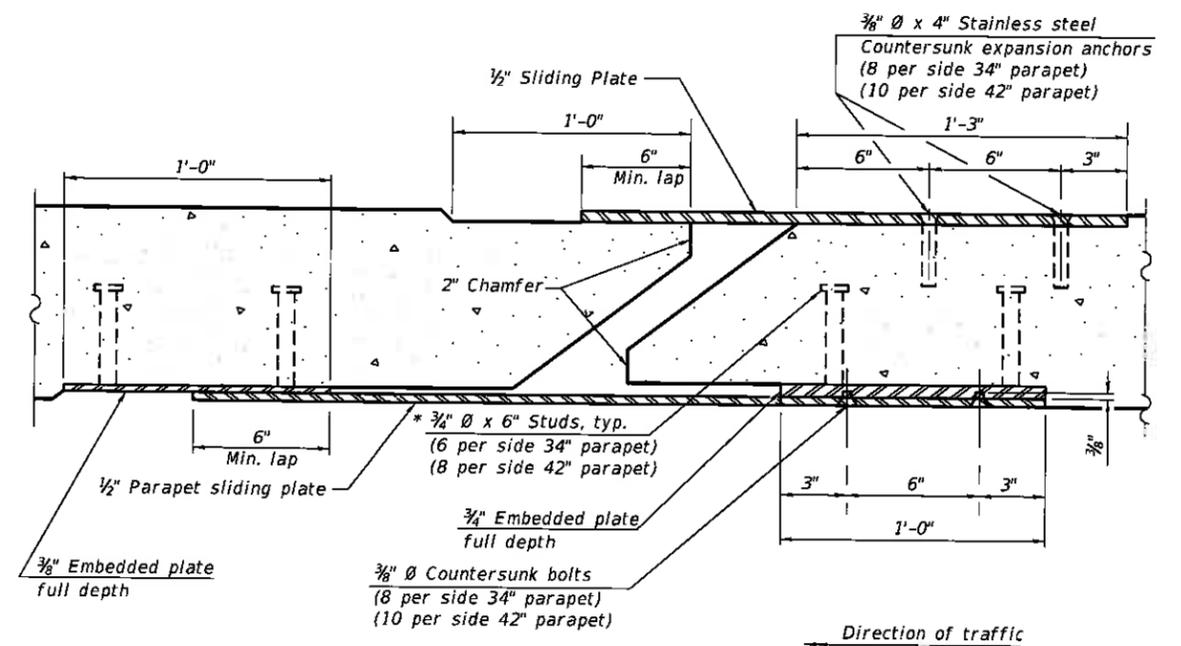
**ELEVATION AT DECK LEVEL SIDEWALK**

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



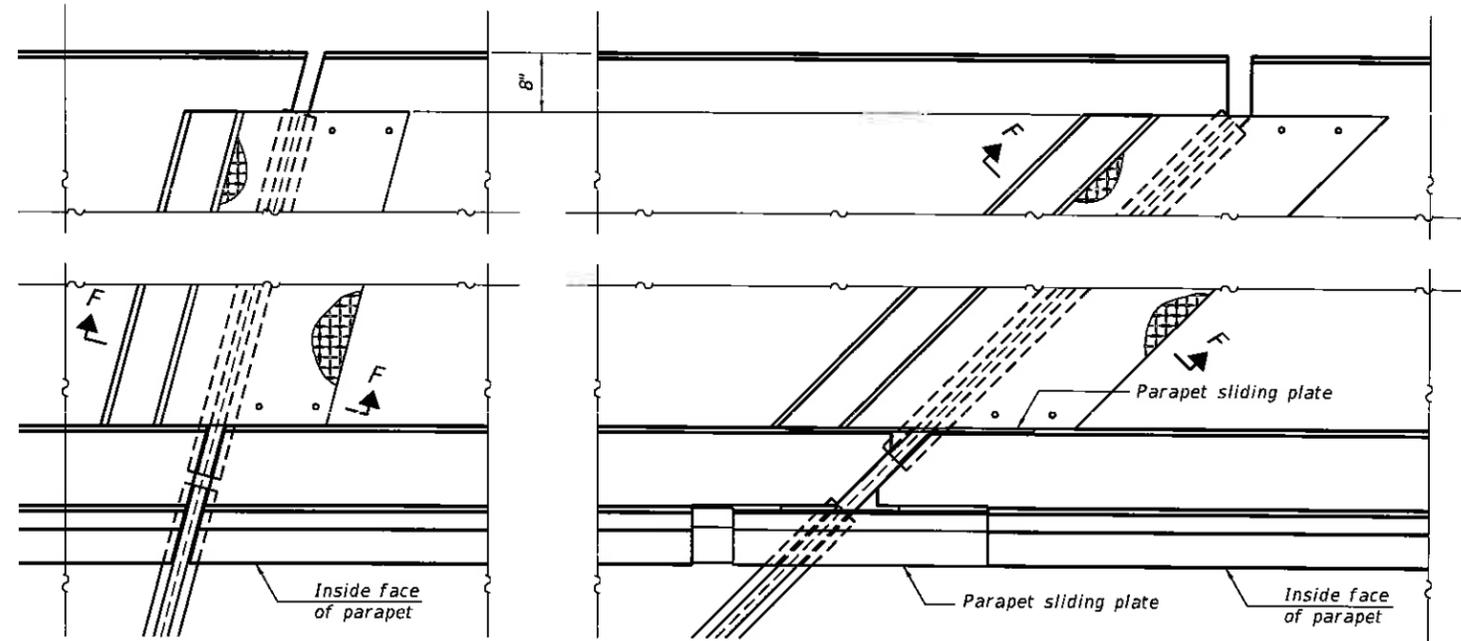
**DETAIL B**

\* Prior to 1/4" Diamond Grinding



**SECTION E-E**

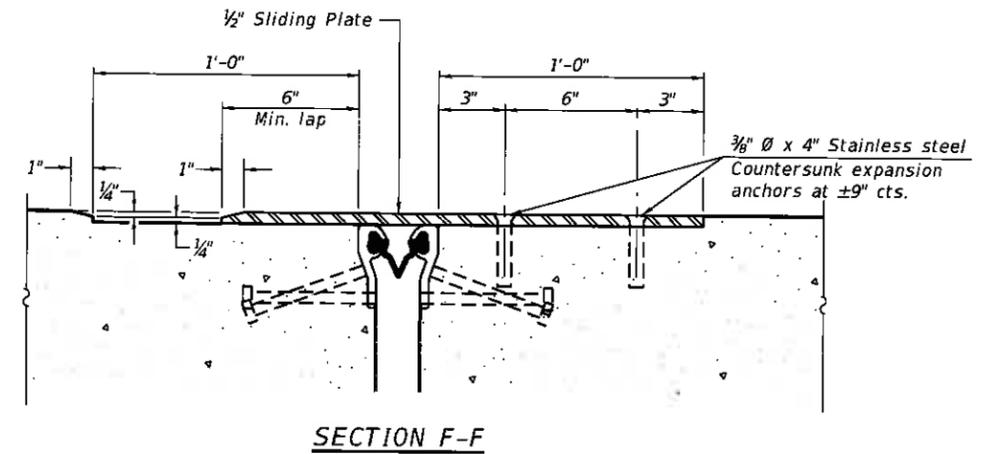
Direction of traffic



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



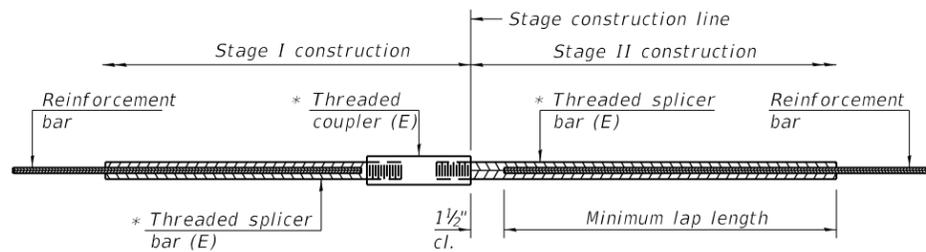
**SECTION F-F**

(Sheet 3 of 3)

FILE NAME = G:\Shared drives\Projects\2816-9882 02 IDOT\1.8 Work 0-dar 18\LOADSHEETS\0264478-SHT\_INT\_Details 3 of 3.dgn

<b>EJ-SS-S</b> 8-11-17		DESIGNED - SHP/MS CHECKED - MJL DRAWN - SHP/MS CHECKED - MJL		REVISED REVISED REVISED REVISED		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>PREFORMED JOINT STRIP SEAL - SIDEWALK</b>		F.A.P. RTE. 553		SECTION 119R & 119BR-1		COUNTY OGLE		TOTAL SHEETS 29		SHEET NO. 24	
PLOT SCALE =		PLOT DATE = 1/22/2020		SHEET NO. 8 OF 13 SHEETS						CONTRACT NO. 64N31									

ILLINOIS FED. AID PROJECT

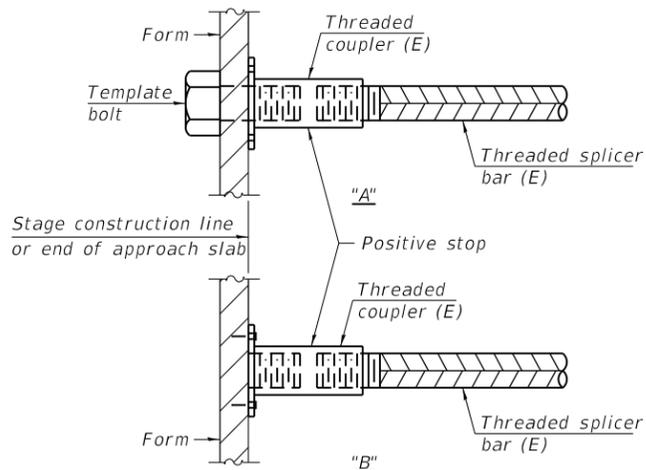


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Joint	#5	20	3'-6"
N. Joint	#6	8	4'-10"
Pier 4 Joint	#5	40	3'-6"
S. Joint	#5	20	3'-6"
S. Joint	#6	8	4'-10"

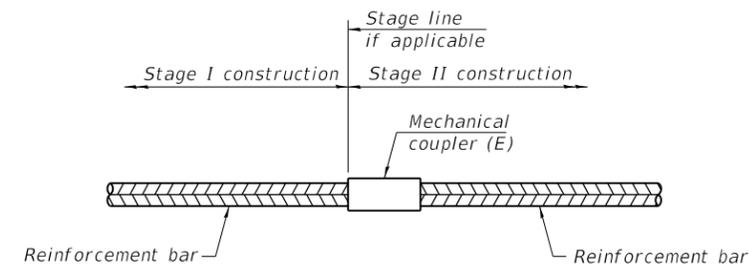


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

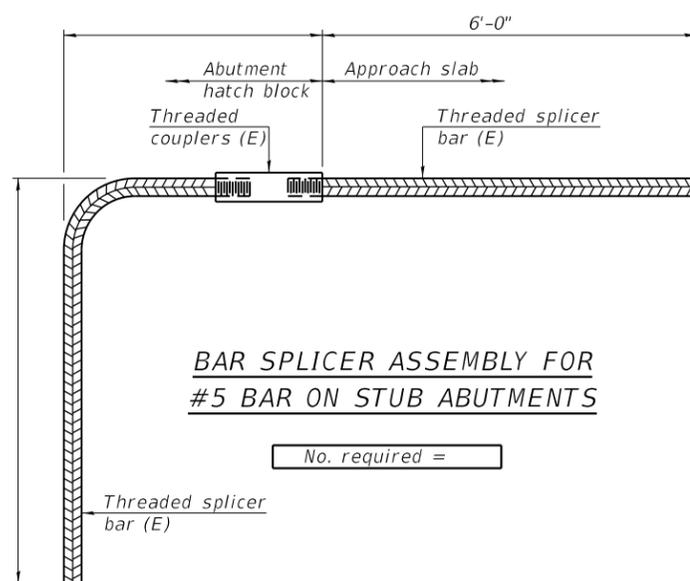
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 2-17-2017

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USER NAME = spotel	DESIGNED - SHP/MS	REVISED
PLOT SCALE =	CHECKED - MJL	REVISED
PLOT DATE = 12/23/2019	DRAWN - SHP/MS	REVISED
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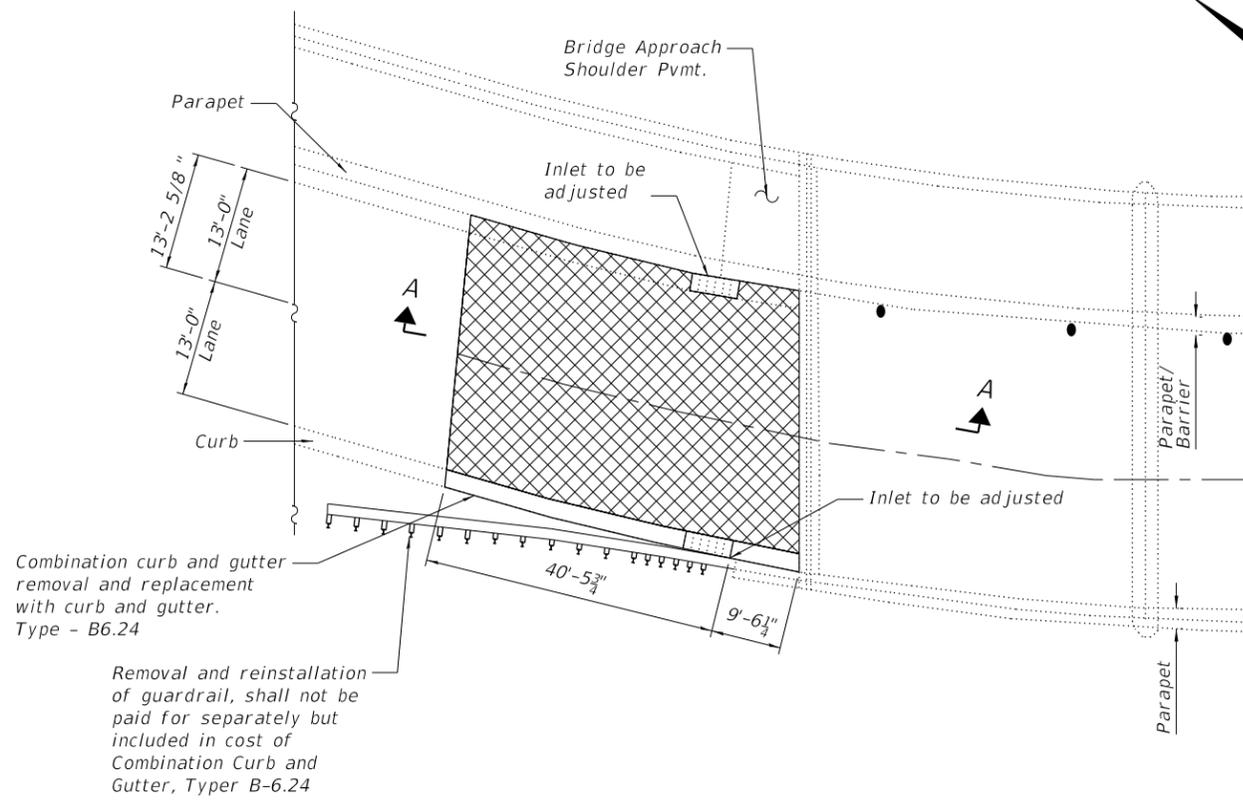
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**

SHEET NO. 9 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	25
CONTRACT NO. 64N31				
ILLINOIS FED. AID PROJECT				

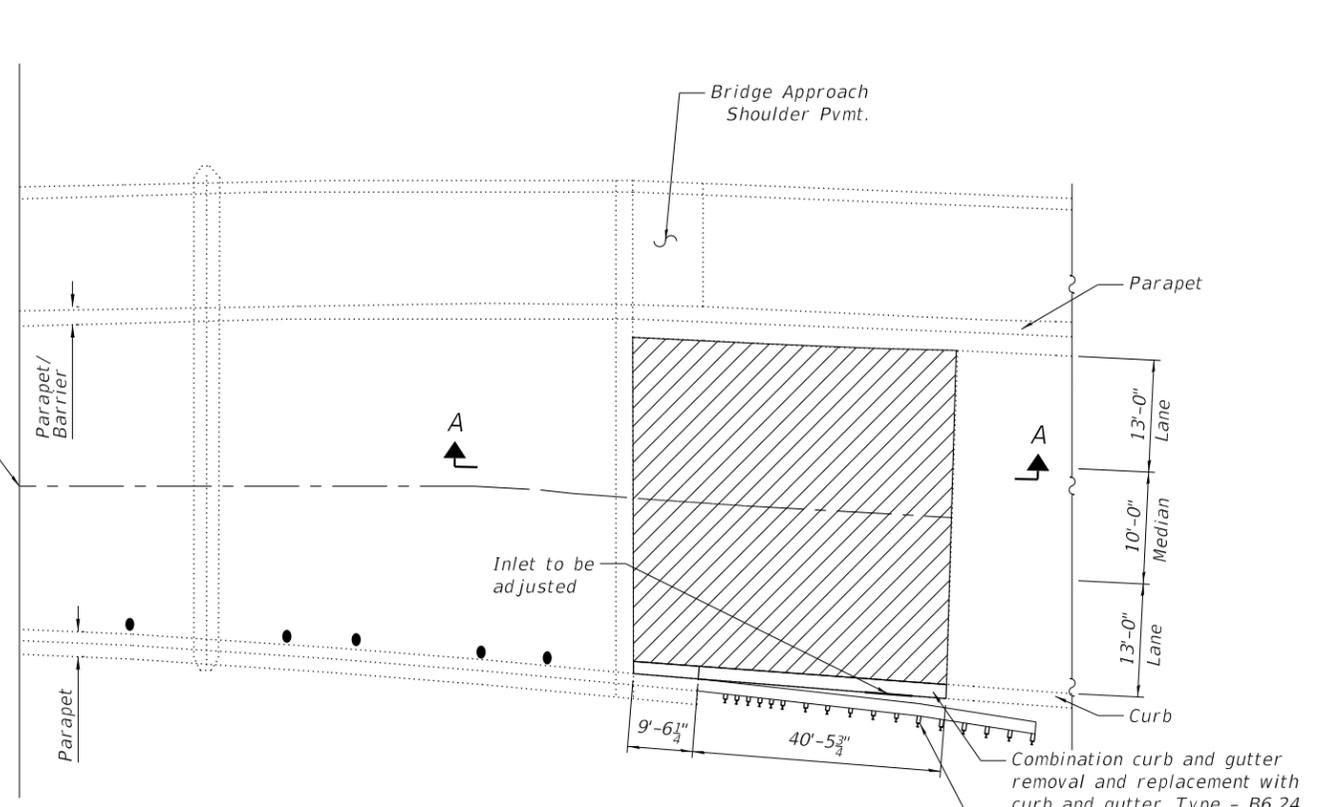
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**REMOVAL**

(Bridge approach removal is similar on both ends of structure)

**APPROACH PLAN**



**PROPOSED**

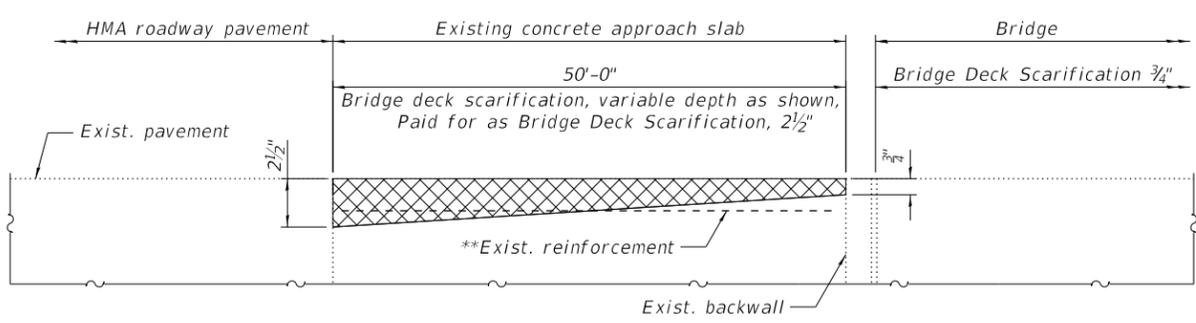
(Bridge approach overlay is similar on both ends of structure)

Combination curb and gutter removal and replacement with curb and gutter. Type - B6.24

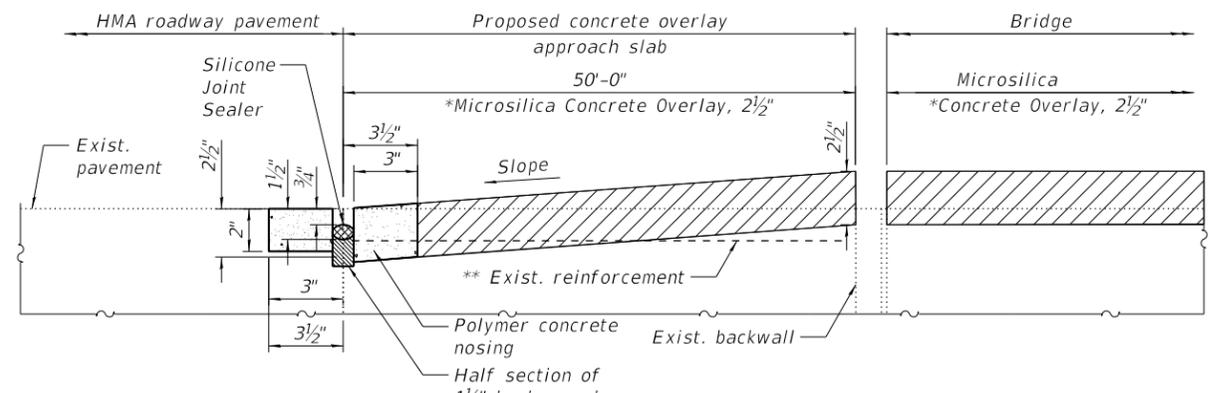
Removal and reinstallation of guardrail, shall not be paid for separately but included in cost of Combination Curb and Gutter, Type B-6.24

Combination curb and gutter removal and replacement with curb and gutter. Type - B6.24

Removal and reinstallation of guardrail, shall not be paid for separately but included in cost of Combination Curb and Gutter, Type B-6.24



**SECTION A-A REMOVAL**



**SECTION A-A PROPOSED**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	368
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	345
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	368
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	368
Diamond Grinding	Sq. Yd.	368
Combination Curb and Gutter Type B-6.24	Foot	100
Combination Curb and Gutter Removal	Foot	100
Inlet to be Adjusted	Each	3
Silicone Joint Sealer, 1"	Foot	66
Polymer Concrete	Cu. Ft.	7.30

**LEGEND**

- Microsilica Concrete Overlay, 2 1/2"
- Bridge Deck Scarification, 2 1/2"

\* Prior to 1/4" Diamond Grinding

\*\* 2" clear cover assumed. Existing rebar to remain undisturbed.

FILE NAME = G:\Shared drives\Projects\2016-0002 02 ID01\1.0 Work Order 10\CADD\SHEETS\264M78-SHT-APPROACH.dgn

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 847.753.8020 (office) | 847.753.8023 (fax)

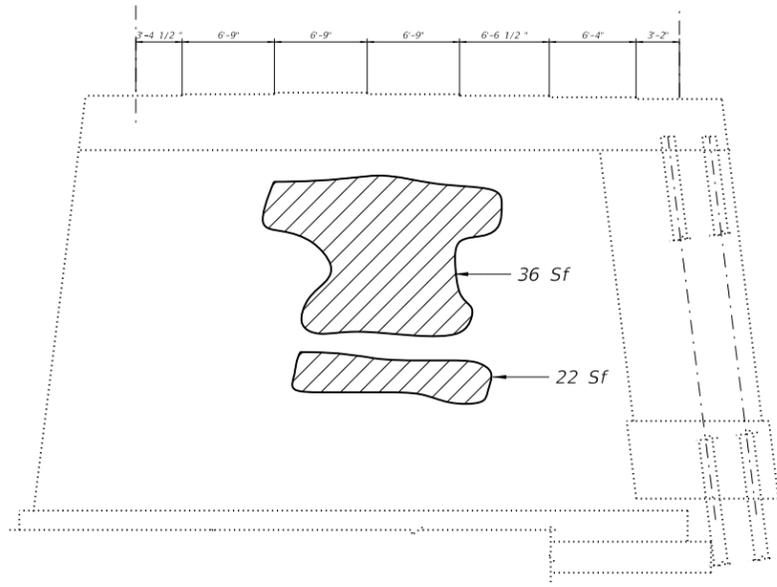
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

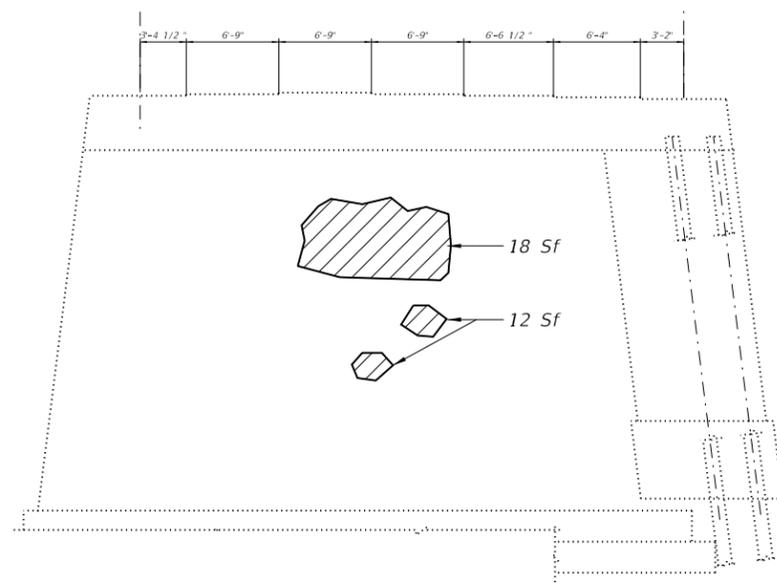
**APPROACH SLAB DETAILS**

SHEET NO. 10 OF 13 SHEETS

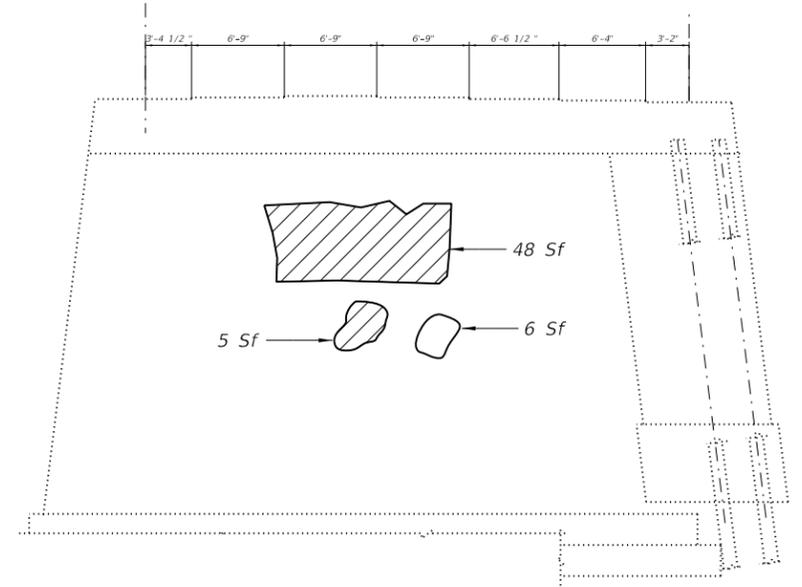
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	26
CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	



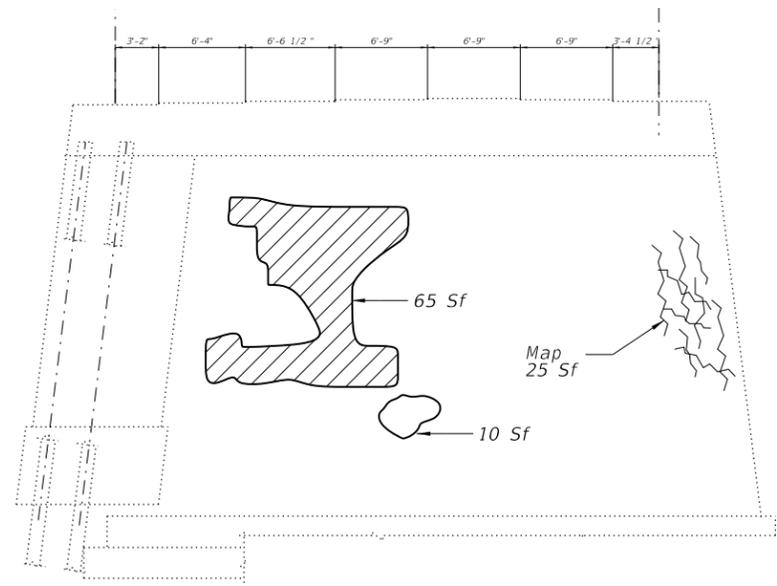
PIER 2 ELEVATION (LOOKING NORTH)



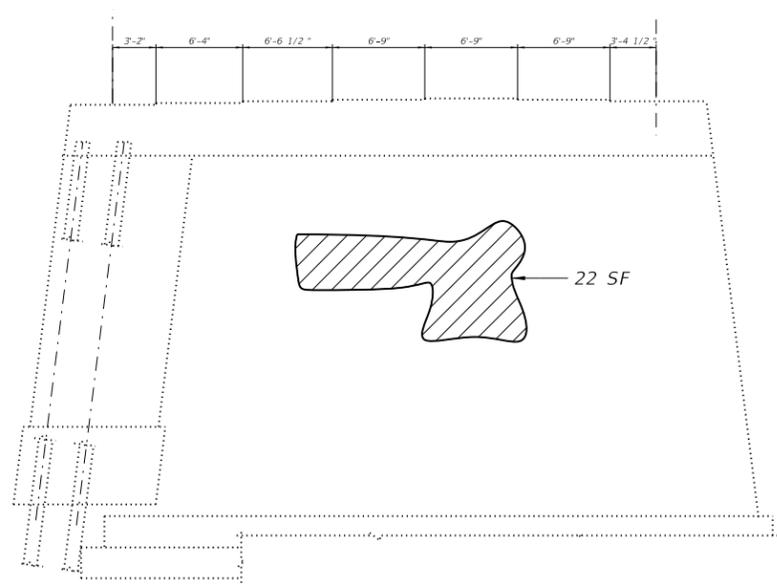
PIER 3 ELEVATION (LOOKING NORTH)



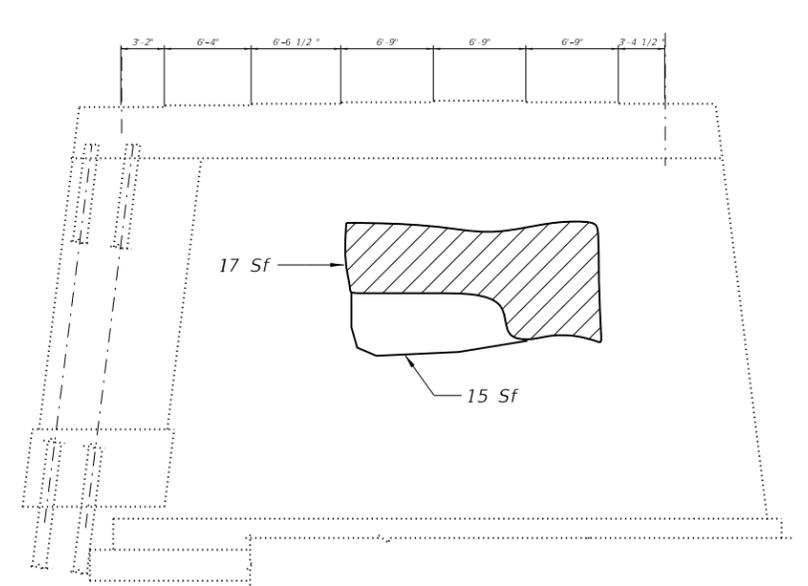
PIER 4 ELEVATION (LOOKING NORTH)



PIER 2 ELEVATION (LOOKING SOUTH)



PIER 3 ELEVATION (LOOKING SOUTH)



PIER 4 ELEVATION (LOOKING SOUTH)

**LEGEND**

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Delamination
- Hairline Crack
- Mapping hair line cracks

**NOTE**

Pier 1 no repair

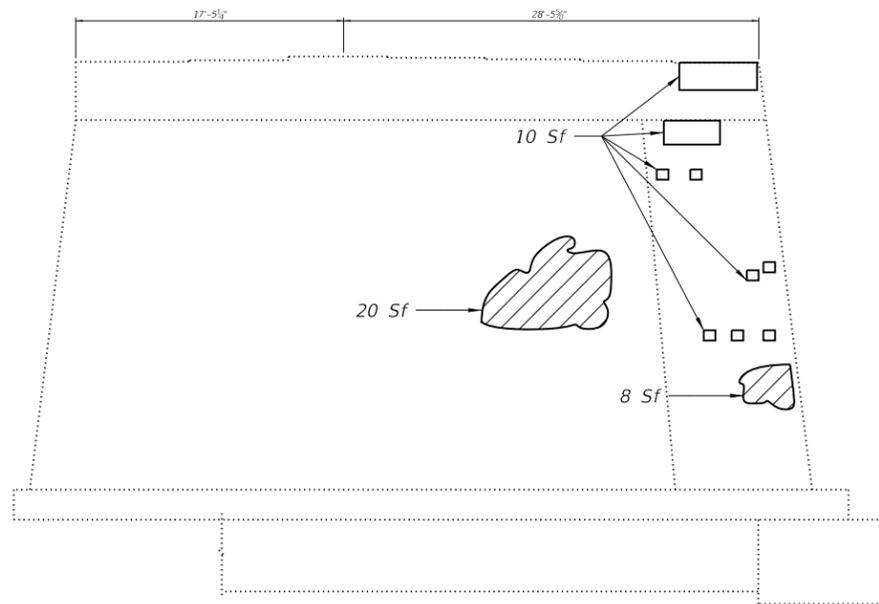
**BILL OF MATERIAL**

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	276

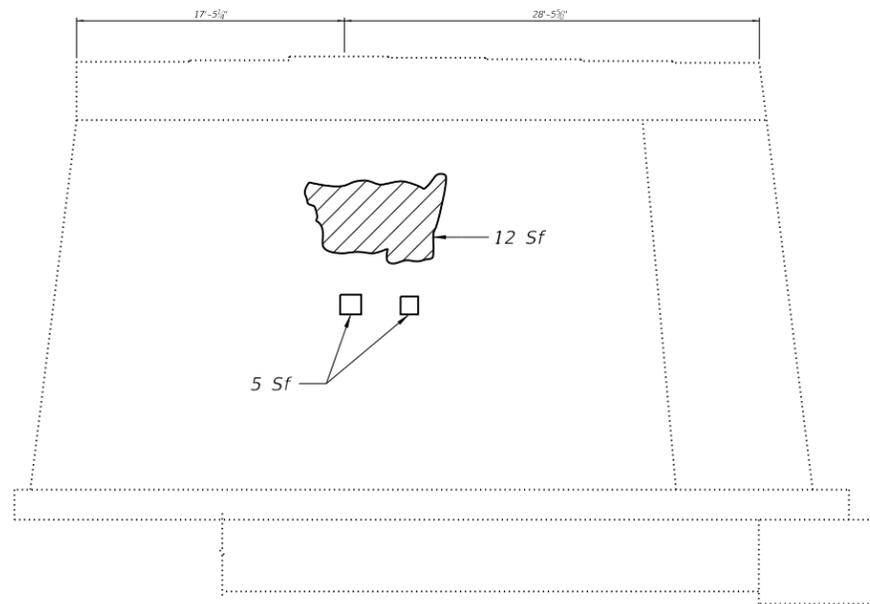
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USER NAME = spotel	DESIGNED - SHP/MS	REVISED
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PLOT DATE = 12/23/2019	DRAWN - SHP/MS	REVISED
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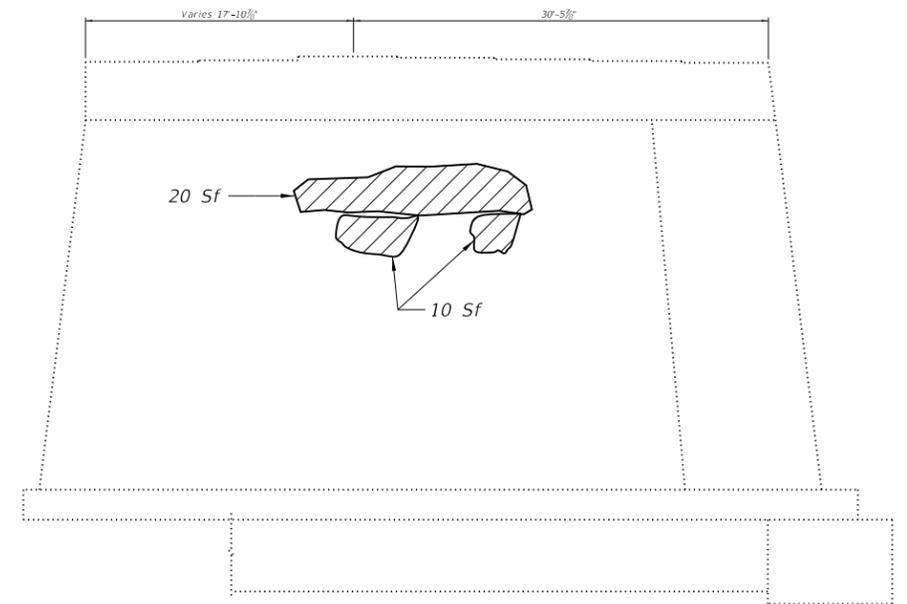
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	27
CONTRACT NO. 64N31			ILLINOIS FED. AID PROJECT	



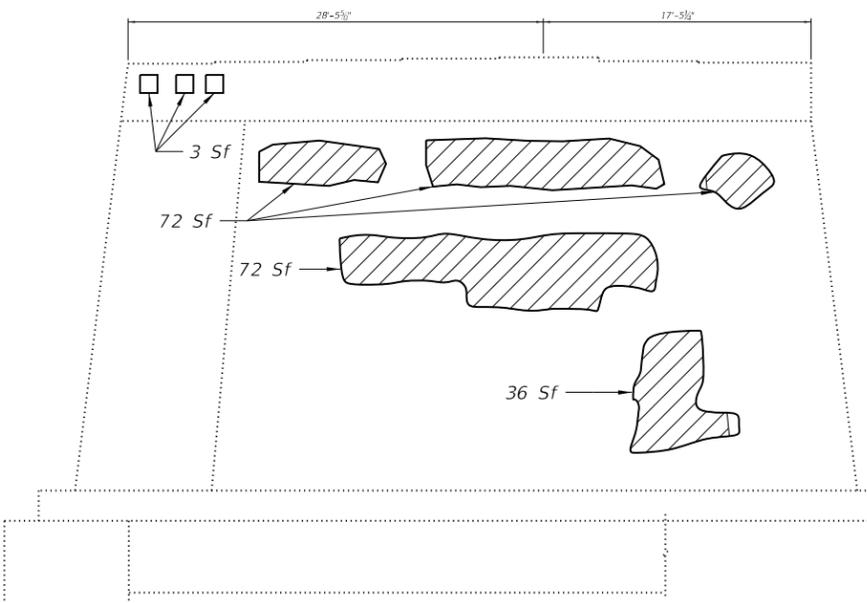
PIER 5 ELEVATION (LOOKING NORTH)



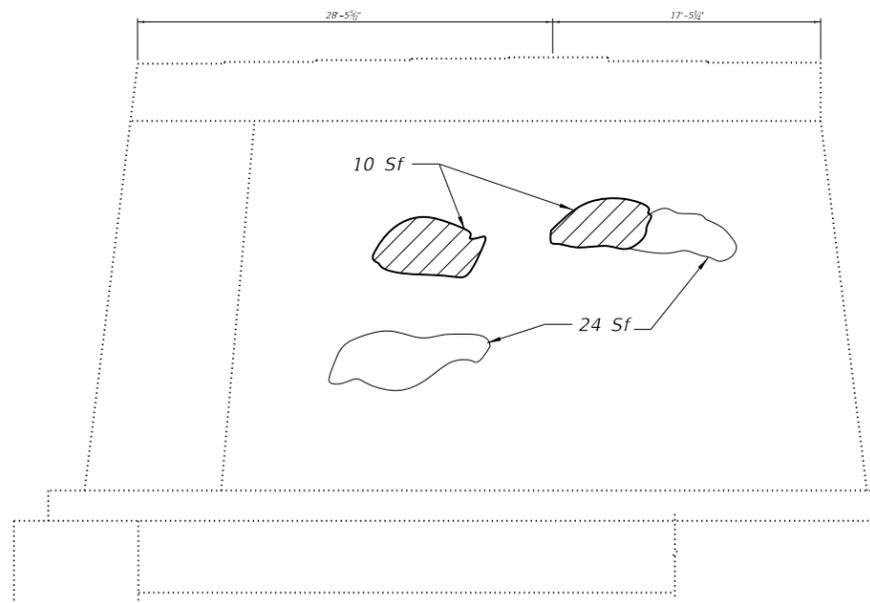
PIER 6 ELEVATION (LOOKING NORTH)



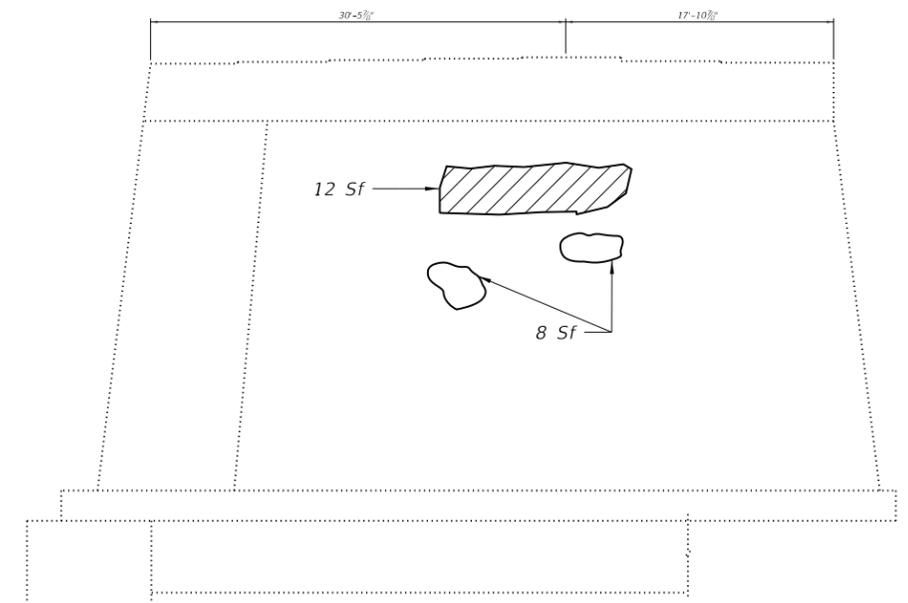
PIER 7 ELEVATION (LOOKING NORTH)



PIER 5 ELEVATION (LOOKING SOUTH)



PIER 6 ELEVATION (LOOKING SOUTH)



PIER 7 ELEVATION (LOOKING SOUTH)

**LEGEND**

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Delamination
- Mapping hair line cracks

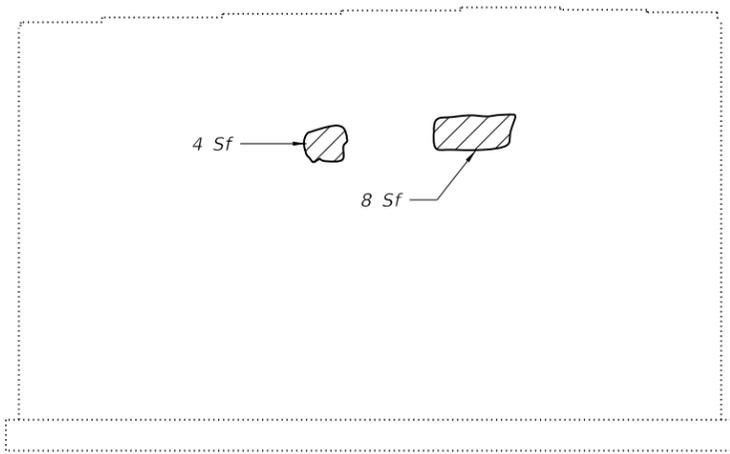
**BILL OF MATERIAL**

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	322

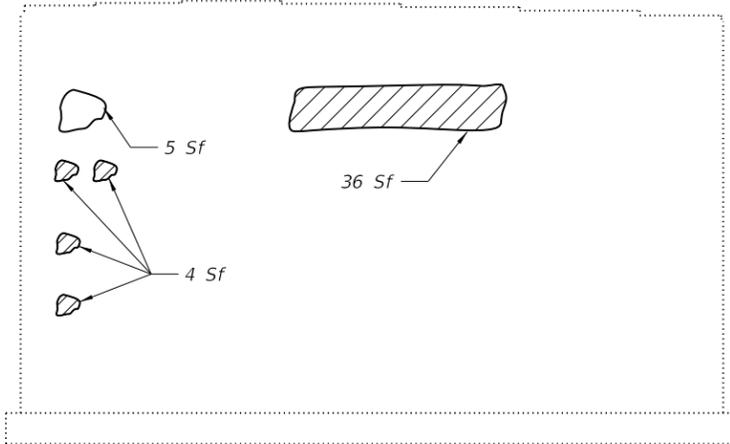
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USER NAME = spotel	DESIGNED - SHP/MS	REVISOR
PLOT SCALE =	CHECKED - MJL	REVISIONS
PLOT DATE = 12/23/2019	DRAWN - SHP/MS	
	CHECKED - MJL	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	28
			CONTRACT NO. 64N31	
ILLINOIS FED. AID PROJECT				



PIER 8 ELEVATION (LOOKING NORTH)



PIER 8 ELEVATION (LOOKING SOUTH)

LEGEND

-  Structural Repair of Concrete (Depth Equal to or Less Than 5")
-  Delamination
-  Mapping hair line cracks

NOTE

Pier 9 no repairs

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	57

FILE NAME = G:\Shared drives\Projects\2016-0002 02 ID01\1.0 Work Order 10\CADD\SHEETS\264M78-SHT-PIER 8 REPAIR.dgn

**AEG ATLAS ENGINEERING GROUP, LTD.**  
 3100 Dundas Road, Suite 502 | Northbrook, IL 60062  
 847.753.8020 (office) | 847.753.8023 (fax)

USER NAME = spotel	DESIGNED - SHP/MS	REVISED
	CHECKED - MJL	REVISED
PLOT SCALE =	DRAWN - SHP/MS	REVISED
PLOT DATE = 12/23/2019	CHECKED - MJL	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER 8 REPAIR DETAILS**  
SHEET NO. 13 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119R & 119BR-1	OGLE	29	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N31	