

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	1
		ILLINOIS	CONTRACT NO. 64R51	

INDEX OF SHEETS

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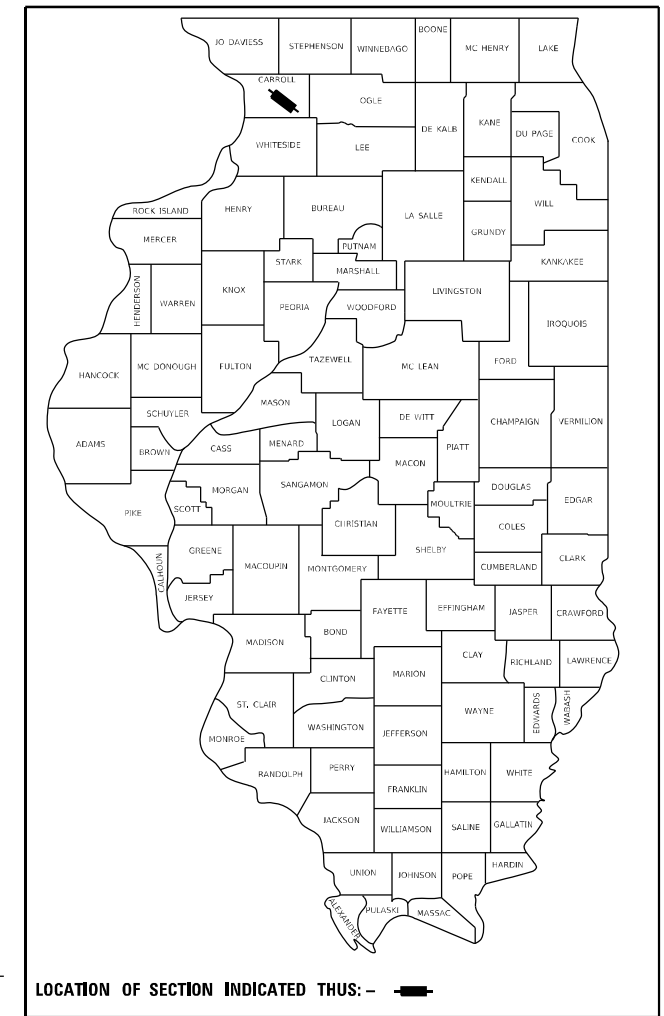
HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

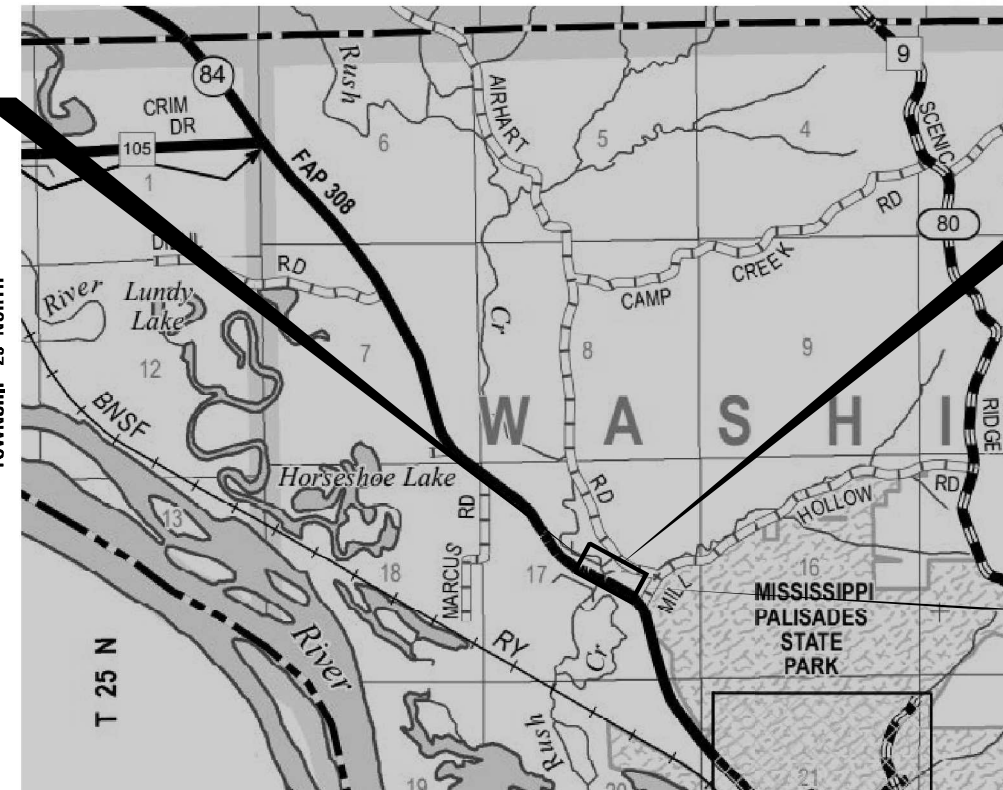
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 308 (IL 84)
SECTION (104 BY-R)BDR
PROJECT NHPP-X35X(505)
BRIDGE REPAIR OF STRUCTURE
CARRYING IL 84 OVER
RUSH CREEK
CARROLL COUNTY
C-92-075-22

D-92-018-22



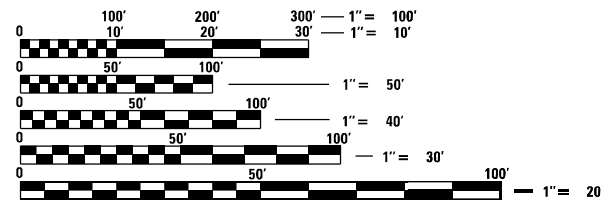
IMPROVEMENTS BEGIN
Sta. 466 + 87.72
SECTION BEGINS
Sta. 470 + 14.28



BRIDGE REPAIRS
EXIST SN 008-0015

IMPROVEMENTS END
Sta. 476 + 84.74
SECTION ENDS
Sta. 473 + 45.73

GROSS LENGTH = 997.02 FT. = 0.188 MILE
NET LENGTH = 331.45 FT. = 0.063 MILE



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.

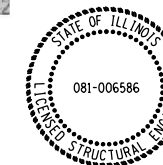
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER **ERIC J. LINDEMANN, P.E.**
PROJECT MANAGER **MAHMOUD ETEMADI, P.E.**

CONTRACT NO. 64R51



ERIC J. LINDEMANN
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-051170
EXPIRATION DATE 11-30-2023
SHEETS 1-12, 32-39



JIA WANG
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. No. 081-006586
EXPIRES: 11-30-22
SHEETS 13-31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 16, 2022
Mahmoud Etemadi
REGIONAL ENGINEER

October 14, 2022
Eric J. Lindemann
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. TO HELP AVOID EXCESS DROP OFFS AT THE EDGE OF PAVEMENT, AGGREGATE SHOULDER MATERIAL OF THE TYPE SPECIFIED IN HE PLANS SHALL BE PLACED PRIOR TO ANY BITUMINOUS MATERIAL. THE AGGREGATE MATERIAL SHALL BE PLACED FLUSH WITH THE EXISTING PAVEMENT OR AT THE ELEVATION OF ANY PROPOSED MILLING. AT NO TIME SHALL THE EDGE OF THE AGGREGATE MATERIAL BE HIGHER THAN THE EXISTING EDGE OF PAVEMENT. THIS WORK SHALL BE PAID FOR BY THE TON FOR AGGREGATE SHOULDERS OF THE TYPE SPECIFIED.
2. THE STRUCTURE WILL RETAIN THE SAME NUMBER, SN 008-0015.
3. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 - 1) ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
 - 2) ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
 - 3) THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
 - 4) CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
5. IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
6. ALL PERMANENT CLEARANCES SHALL BE VERIFIED BEFORE PROJECT CLOSING.
7. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
8. REGARDLESS OF UNDERLYING LAND OWNERSHIP, ALL SHORING SYSTEMS WITHIN RAILROAD RIGHT-OF-WAY OR THAT MAY IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.
9. THE CONTRACTOR SUBMIT AND PROVIDE SUFFICIENT SAFETY MEASURES TO PROTECT UNATTENDED EXCAVATIONS TO THE RAILROAD FOR APPROVAL.
10. ALL DEMOLITIONS/REMOVALS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE CURRENT RAILROAD'S DEMOLITION GUIDELINES.

11. RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT.
12. CALL BEFORE YOU DIG. PRIOR TO EXCAVATION, DISTRUPTING, OR WORKING ON THE RAILROAD PROPERTY THE CONTRACTOR SHALL LOCATE AND PROTECT UPRR FACILITIES BY CALLING THE UPRR "CALL BEFORE YOU DIG" (CBYD) PHONE NUMBER: 1-800-336-9193.
13. CONSTRUCTION ACTIVITIES, INCLUDING FALSEWORK/FORMWORK, ARE NOT ALLOWED WITHIN THE "MINIMUM CONSTRUCTION CLEARANCE ENVELOPE" AS THEY WOULD OTHERWISE DISRUPT RAILROAD OPERATIONS.
14. A TOPOGRAPHIC SURVEY WAS NOT CONDUCTED FOR EXISTING FACILITIES AND PROPOSED DESIGN WORK SHOWN IN THE PLANS. ALIGNMENTS, DIMENSIONS, AND ELEVATIONS SHOWN ARE BASED ON EXISTING RECORD DRAWINGS. THE CONTRACTOR WILL VERIFY EXISTING DIMENSIONS IN THE FIELD PRIOR TO THE REMOVAL OF EXISTING BRIDGE AND ROAD ITEMS.

GENERAL NOTES - MAINTENANCE OF TRAFFIC

1. MAINTENANCE OF TRAFFIC SHALL UTILIZE STANDARDS AS NOTED IN THE INDEX OF HIGHWAY STANDARDS ON THE COVER SHEET AND AS DETAILED IN THESE PLANS.
2. A WIDTH RESTRICTION OF 10'-6" SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS AND THE DISTANCE FROM THE CROSSROADS AS NOTED; NORTHBOUND IL 84: ALL LEGS OF THE US 52 IL 78 INTERSECTION (15 MILES AHEAD), AT THE US 52 SAVANA-SABULA BRIDGE (4 MILES AHEAD), AT THE ENTRANCE TO THE MISSISSIPPI PALISADES STATE PARK CAMPGROUND (1 MILE AHEAD). SOUTHBOUND IL 84: AT THE INTERSECTION OF US 20 AND IL 84 (14 MILES AHEAD), AT THE JO DAVIES COUNTY HIGHWAY DEPARTMENT IN HANOVER, ILLINOIS (8 MILES AHEAD), AND AT THE US ARMY DEPOT ROAD (2.5 MILES AHEAD).
3. TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE, TYPE I EXCEPT ON FINAL SURFACES. ON FINAL WEARING SURFACES TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE, TYPE IV.
4. EXISTING INLETS SHALL BE COVERED WITH A SUITABLE THICKNESS STEEL PLATE IN A MANNER APPROVED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC CONTROL ITEMS.

GN-406H
HMA MIXTURE REQUIREMENT TABLE

LOCATION(S):	SURFACE	SHOULDER	TEMPORARY RAMP
MIXTURE USE(S):	SURFACE	BINDER	BASE COURSE OPTION (HMA SHOULDER)
BINDER GRADE (AC/PG):	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0	IL-19.0
FRICTION AGGREGATE:	MIXTURE "D"	N/A	N/A
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN	112 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
IL 84 OVER RUSH CREEK**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	2
CONTRACT NO. 64R51			ILLINOIS FED. AID PROJECT	

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	DRAWN -	REVISED -
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PLOT DATE = 10/5/2022	DATE -	REVISED -

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Federal	20% State
				BRIDGE 0047 SN 008-0015	ROADWAY 0004 RURAL
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	49	0	49
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	144	0	144
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	0	160
40600990	TEMPORARY RAMP	SQ YD	36	0	36
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	27	0	27
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	133	0	133
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	886	0	886
50102400	CONCRETE REMOVAL	CU YD	13.2	13.2	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.4	15.4	0
50300300	PROTECTIVE COAT	SQ YD	1,144	1,144	0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1,200	1,200	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,450	2,450	0
50800515	BAR SPLICERS	EACH	40	40	0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	69	69	0

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 001-00000000
 001-00000000

USER NAME = jheimer	DESIGNED -	REVISED -
PLOT SCALE = 1.9999' / in.	DRAWN -	REVISED -
PLOT DATE = 8/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 84 OVER RUSH CREEK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	3
			CONTRACT NO. 64R51	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

Long Section Number

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Federal	20% State
				BRIDGE	ROADWAY
				0047	0004
				SN 008-0015	RURAL
52100520	ANCHOR BOLTS, 1"	FOOT	20	20	0
59000200	EPOXY CRACK INJECTION	FOOT	48	48	0
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	4	0	4
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3	0	3
67100100	MOBILIZATION	L SUM	1	0	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	0	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	0
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	0	30
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,354		1,354
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	3,991	0	3,991
70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	24	0	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	633	0	633

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 08/16/2022

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 84 OVER RUSH CREEK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	4
			CONTRACT NO. 64R51	
SCALE:		SHEET 2 OF 4 SHEETS	STA.	TO STA.
Long Section Number				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% Federal	20% State
				BRIDGE	ROADWAY
				0047	0004
SN 008-0015	RURAL				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	608	0	608
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	0	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	0	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	7,973	0	7,973
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	36	0	36
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	884	884	0
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,063	0	1,063
X4820110	HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)	SQ YD	54	0	54
X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	119	0	119
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	1,200	1,200	0
Z0001905	STRUCTURAL STEEL REPAIR	POUND	1,160	1,160	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,101	1,101	0
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	1,101	1,101	0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	230	230	0
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,012	1,012	0

*= SPECIALTY ITEM

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PLOT DATE = 8/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 84 OVER RUSH CREEK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	5
			CONTRACT NO. 64R51	
SCALE:		SHEET 3 OF 4 SHEETS	STA.	TO STA.

MAINTENANCE OF TRAFFIC SCHEDULE

LOCATION	70307120	70307210	70400100	70400200	70600250	70600350	70300150	70106700
	TEMPORARY PAVEMENT MARKING-LINE 4"	TEMPORARY PAVEMENT MARKING-LINE 24"	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TEMPORARY PAVEMENT MARKING REMOVAL	TEMPORARY RUMBLE STRIPS
	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ FT)	(EACH)
IL 84 - STAGE 1								
STATION TO STATION								
466+00 467+00	25	12					8.3	3
467+00 468+00	200						66.6	
468+00 469+00	200						66.6	
469+00 470+00	200		71		1		66.6	
470+00 471+00	200		100				66.6	
471+00 472+00	200		100				66.6	
472+00 473+00	200		100				66.6	
473+00 474+00	200		100				66.6	
474+00 475+00	200		21		1		66.6	
475+00 476+00	200						66.6	
476+00 477+00	169	12					56.3	3
IL 84 - STAGE 2								
STATION TO STATION								
466+00 467+00	25						8.3	
467+00 468+00	200						66.6	
468+00 469+00	200						66.6	
469+00 470+00	200		71		1		66.6	
470+00 471+00	200		100				66.6	
471+00 472+00	200		100				66.6	
472+00 473+00	200		100				66.6	
473+00 474+00	200		100				66.6	
474+00 475+00	200		21		1		66.6	
475+00 476+00	200						66.6	
476+00 477+00	169						56.3	
TOTAL	3988	24	492	492	2	2	1328	6
ADJUSTED TOTAL	3988	24	492	492	2	2	1328	6

PAVEMENT MARKING SCHEDULE

LOCATION	78001110	X0327980
	PAINT PAVEMENT MARKING - LINE 4"	PAVEMENT MARKING REMOVAL - WATER BLASTING
	(FOOT)	(SQ FT)
IL 84		
STATION TO STATION		
466+00 467+00	96	16.0
467+00 468+00	800	133.4
468+00 469+00	800	133.4
469+00 470+00	800	133.4
470+00 471+00	800	133.4
471+00 472+00	800	133.4
472+00 473+00	800	133.4
473+00 474+00	800	133.4
474+00 475+00	800	133.4
475+00 476+00	800	133.4
476+00 477+00	672	112.0
TOTAL	7968	1328.3
ADJUSTED TOTAL	7968	1329

NOTE: PAINT PAVEMENT MARKING - LINE 4" QUANTITY IS FOR TWO APPLICATION

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Kaskaskia
Engineering Group, LLC
Professional Engineering Group

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	DATE -	REVISED -

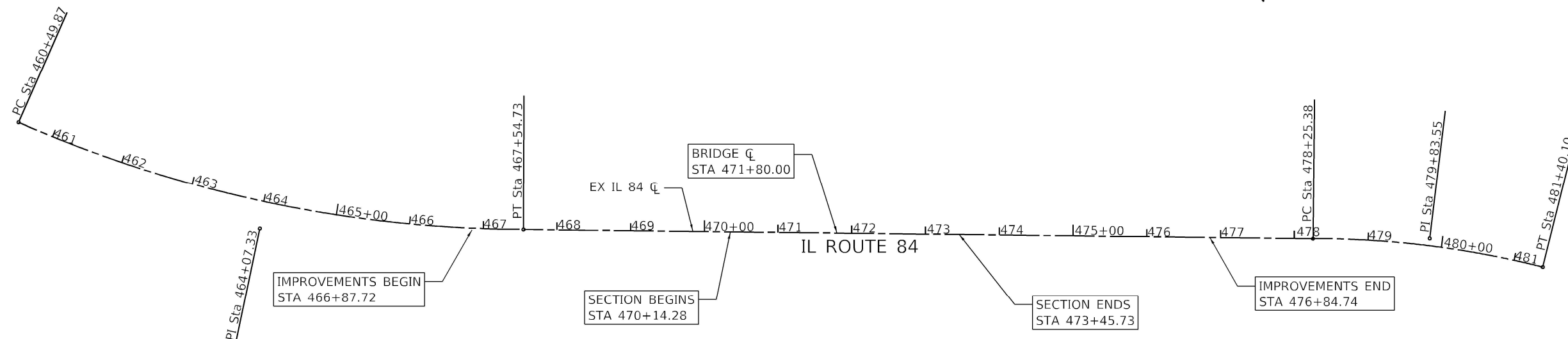
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL 84 OVER RUSH CREEK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	6
			CONTRACT NO. 64R51	

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

ILLINOIS FED. AID PROJECT
Long Section Number



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Kaskaskia
 Engineering Group, LLC
 PROFESSIONAL ENGINEERING
 Illinois Professional Design Firm
 Professional Engineering Group

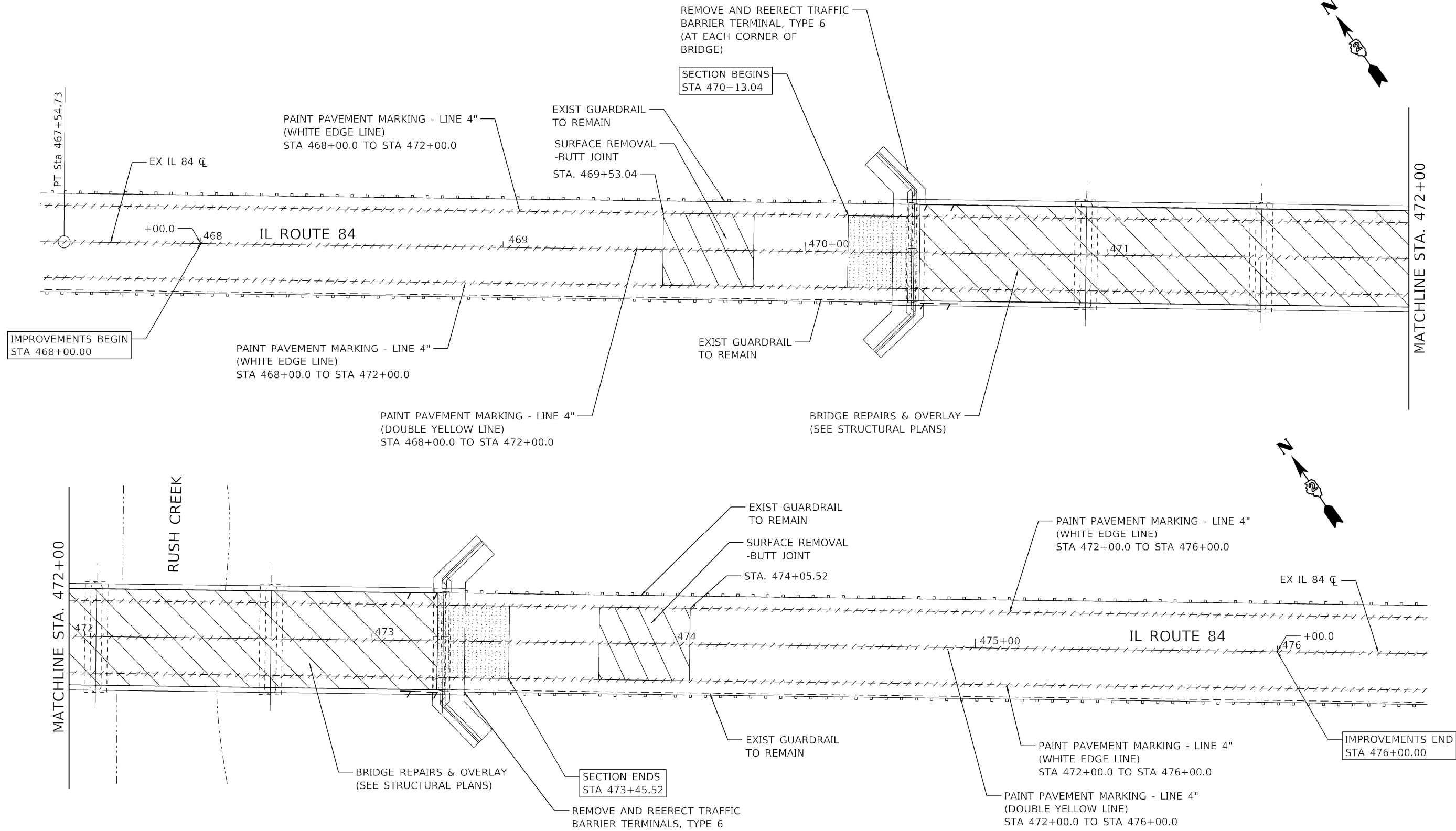
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DRAWN -	REVISED -	
CHECKED -	REVISED -	
DATE -	REVISED -	
PLOT SCALE = 1/66,660" / in.		
PLOT DATE = 8/16/2022		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT LAYOUT PLAN
IL 84 OVER RUSH CREEK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	7
CONTRACT NO. 64R51				
SCALE: SHEET OF SHEETS STA. TO STA.				

Long Section Number



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	DATE -	REVISED -

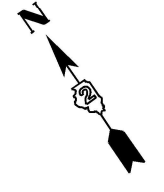
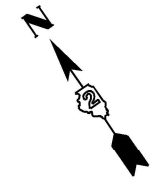
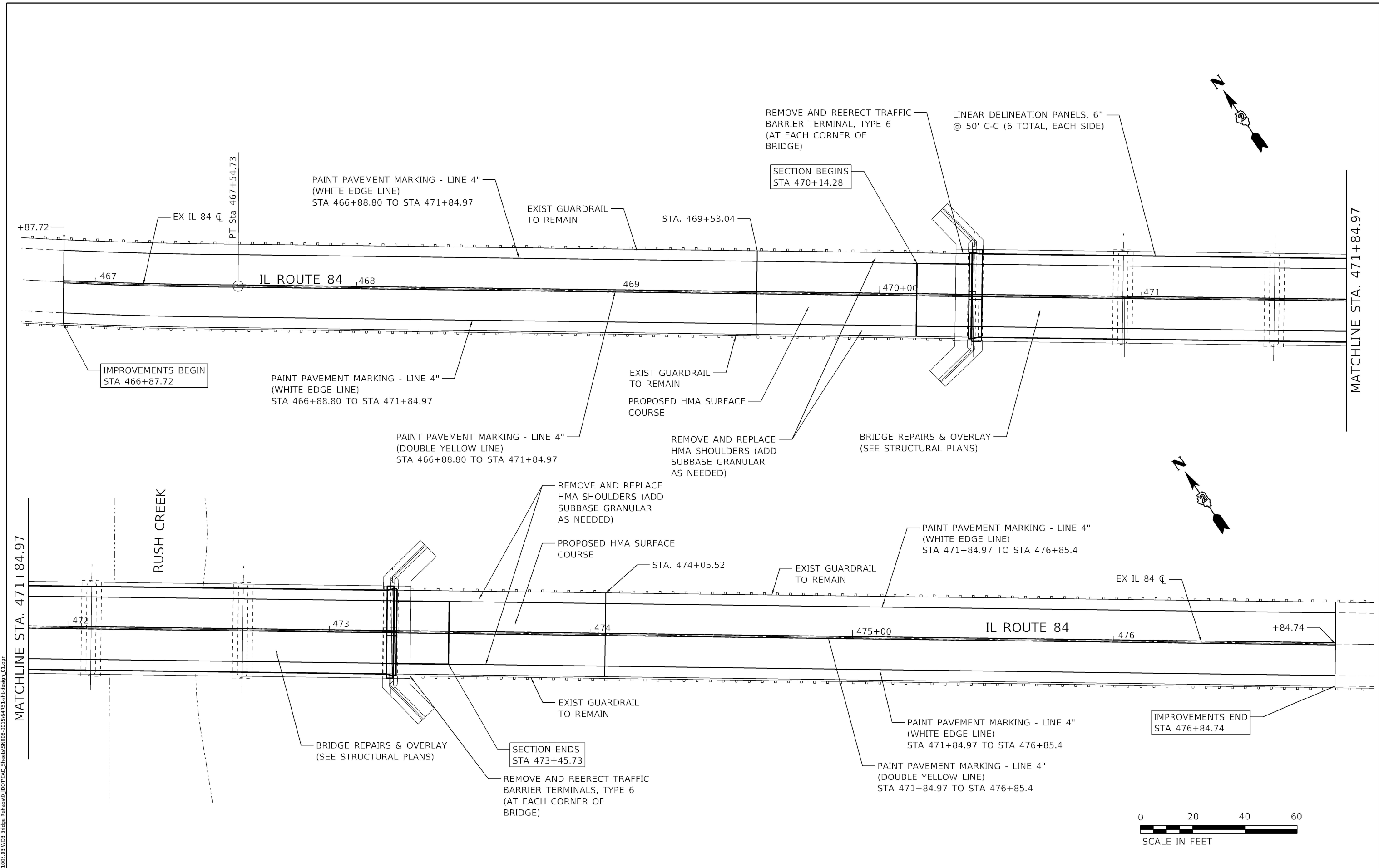
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 IL 84 OVER RUSH CREEK**

F.A. RTE. 308	SECTION (104-BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 8
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

Long Section Number



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Kaskaskia
 Engineering Group, T.L.C.
 PROFESSIONAL ENGINEERING
 Illinois Professional Design Firm
 1127 W. 12th St.
 Moline, IL 61704
 (309) 243-1111

USER NAME = jheimer	DESIGNED -	REVISED -
PLOT SCALE = 33.3320' / in.	DRAWN -	REVISED -
PLOT DATE = 8/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

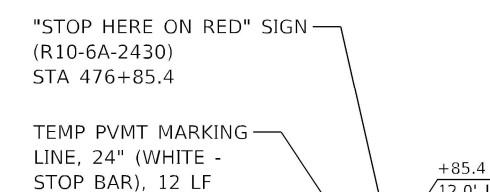
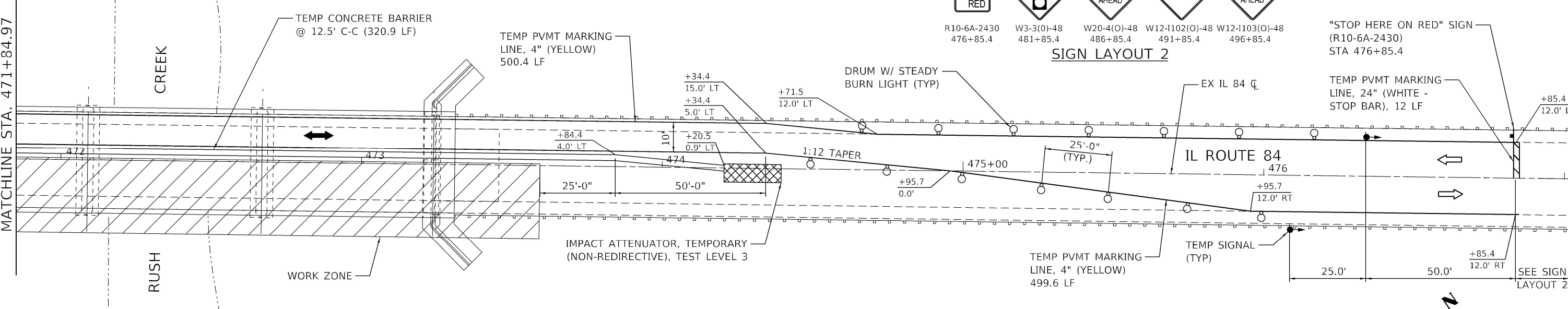
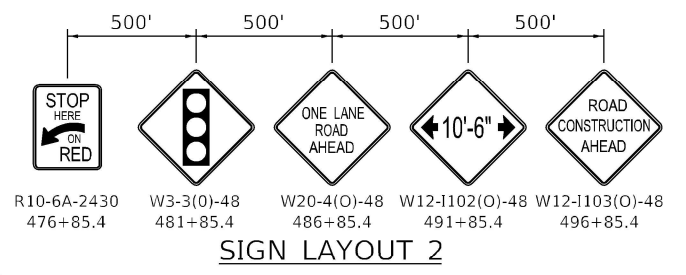
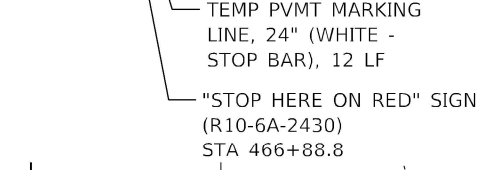
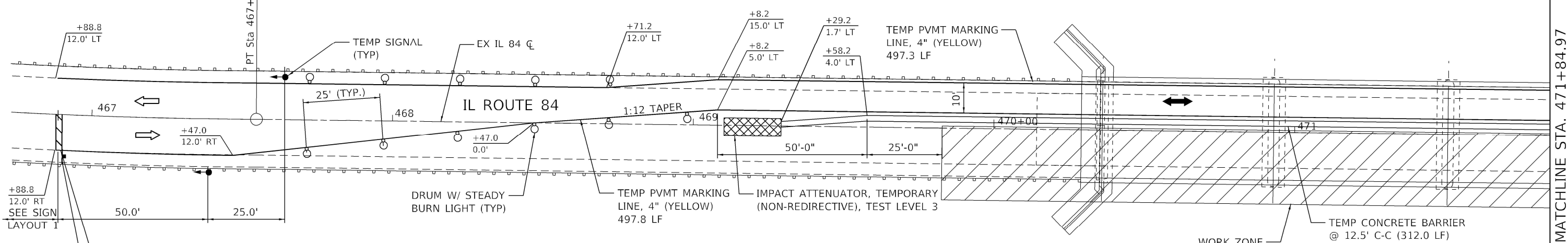
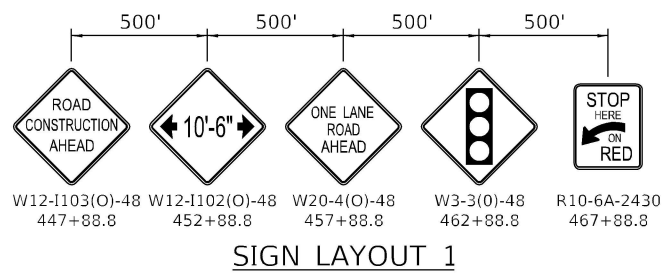
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY IMPROVEMENT PLAN
IL 84 OVER RUSH CREEK

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A. RTE. 308	SECTION (104-BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 9
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				

Long Section Number



STAGE 2 NOTES:

1. MAINTENANCE OF TRAFFIC SHALL FOLLOW IDOT STD 701321 AND THESE PLANS.
2. TEMPORARY RUMBLE STRIPS INSTALLED DURING STAGE 1 SHALL REMAIN DURING STAGE 2 OPERATIONS.
3. ALL TEMPORARY PAVEMENT MARKING LANE LINES PLACED DURING STAGE 1 OPERATIONS SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS "TEMPORARY PAVEMENT MARKING REMOVAL."
4. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TAPE.



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 Illinois Professional Design Firm
 License No. 021-000000

USER NAME	= jheimer
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 33.3320' / in.
PLOT DATE	= 8/16/2022

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC-STAGE 2
 IL 84 OVER RUSH CREEK**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	11
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				

Long Section Number

Bench Mark: Cut "t" on top of southeast wingwall of bridge. Elev. 603.39.

Existing Structure: SN 008-0015 was originally constructed in 1927 as a 5-span cast-in-place deck-girder bridge, 290'-0" back-to-back of abutment, concrete t-beam bridge with PPC deck beams on each side and a ±35'-8" out-to-out reinforced concrete deck. The superstructure was removed and reconstructed in 1991 with continuous steel beams and a 35'-2" out-to-out reinforced concrete deck. The bridge is supported by cast-in-place full-height abutments on spread footings and solid-wall piers on pile-supported footings.

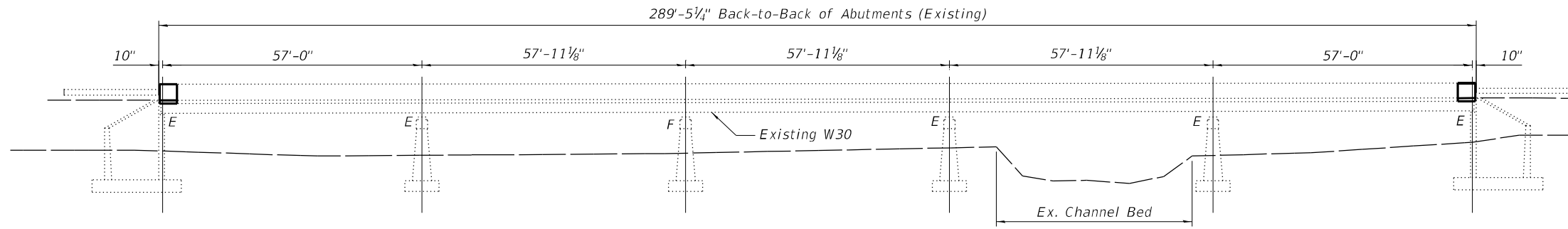
Salvage: None.

DESIGN STRESSES
 Existing Structure (1991 Construction)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M-183)
 New Construction
 $f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)

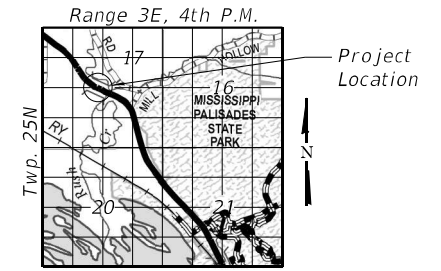
DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications
 for Highway Bridges
LOADING HS20-44
 No additional wearing surface allowed

INDEX OF SHEETS

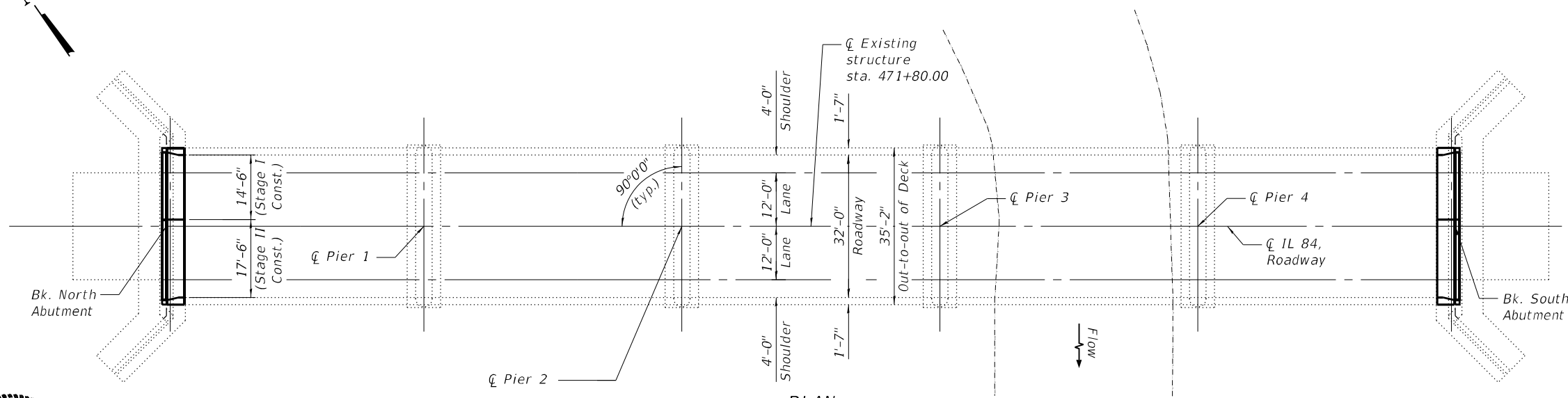
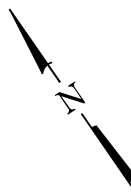
- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Temporary Concrete Barrier
- 4 - Concrete Removal Details
- 5 - Superstructure
- 6 - Superstructure Details
- 7 - Superstructure Typical Section
- 8 - Preformed Joint Strip Seal
- 9 - Steel Repair Plan
- 10 - Steel Repair Details
- 11 - North Abutment Concrete Removal
- 12 - North Abutment Plan & Elevation
- 13 - South Abutment Concrete Removal
- 14 - South Abutment Plan & Elevation
- 15 - Abutment Repairs
- 16 - Pier Repairs
- 17 - Bar Splicer Assembly and Mechanical Splicer Details



ELEVATION



LOCATION SKETCH



PLAN



Signed: *Jia Wang*
 Dated: 10/14/2022
 Illinois Structural Engineer
 No. 081-006586
 License Expires: 11-30-2022

GENERAL PLAN & ELEVATION
IL ROUTE 84 OVER RUSH CREEK
F.A.P. 308 - SEC. (104 BY-R)BDR
CARROLL COUNTY
STATION 471+80.00
STRUCTURE NO. 008-0015

MODEL: Default
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CHECKED - JW	REVISIONS -	
PLOT SCALE =	DRAWN - MLC	REVISIONS -
PLOT DATE =	CHECKED - JW	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	12
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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.
3. 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.
4. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications at ambient temperature other than 50°F.
5. All exposed concrete edges shall have a standard 3/4" chamfer unless noted otherwise.

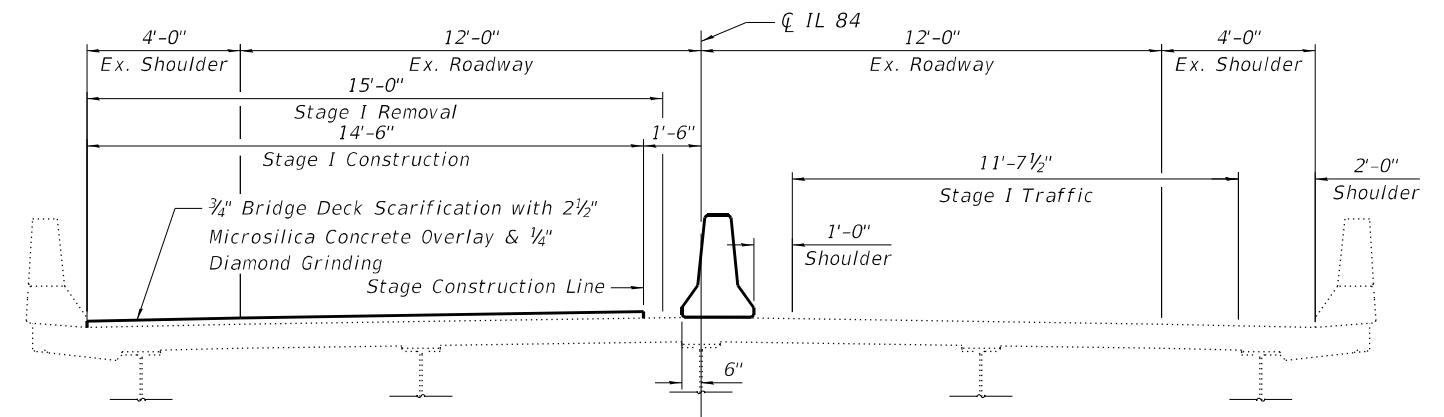
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	13.2		13.2
Concrete Superstructure	Sq. Yd.	15.4		15.4
Protective Coat	Pound	1,144		1,144
Furnishing and Erecting Structural Steel	Pound	1,200		1,200
Reinforcement Bars, Epoxy Coated	Each	2,450		2,450
Bar Splicers	Foot	40		40
Preformed Joint Strip Seal	Foot	69		69
Anchor Bolts, 1"	Foot	20		20
Epoxy Crack Injection	Sq. Yd.		48	48
Bridge Deck Grooving (Longitudinal)	Pound	884		884
Structural Steel Removal	Pound	1,200		1,200
Structural Steel Repair	Sq. Yd.	1,160		1,160
Bridge Deck Scarification 3/4"	Sq. Yd.	1,101		1,101
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Ft.	1,101		1,101
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Yd.		230	230
Diamond Grinding (Bridge Section)		1,012		1,012

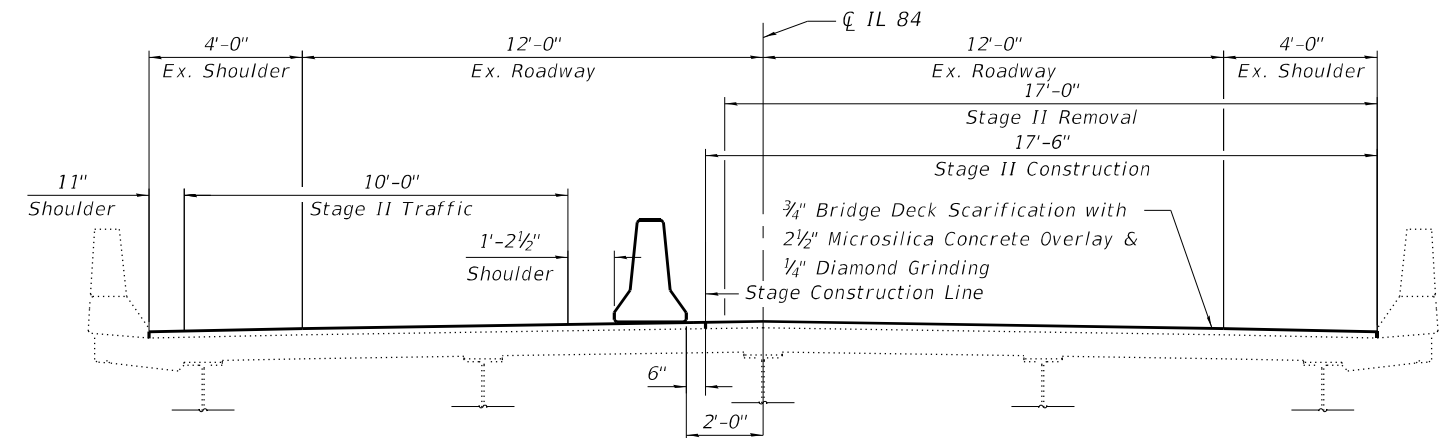
SCOPE OF WORK

To be completed under stage construction.

1. Remove existing expansion joints.
2. Scarify bridge deck.
3. Remove and reconstruct abutment backwalls.
4. Replace diaphragms.
5. Replace all bearing side retainers at both North and South Abutments.
6. Repair steel.
7. Reconstruct deck joints at each abutment with preformed joint strip seal.
8. Install Microsilica Concrete Overlay and perform diamond grinding and longitudinal bridge deck grooving.
9. Repair abutments and piers at designated locations or as directed by the Engineer.
10. Re-erect guardrail transitions (See Roadway Plans).



STAGE 1 - TYPICAL SECTION
(Looking Upstation)



STAGE 2 - TYPICAL SECTION
(Looking Upstation)

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Kaskaskia
Engineering Group, LLC
Professional Engineering Group
1127 N. Main St., Suite 100
Bella Vista, Illinois 62226
618.555.8877 (Phone)
618.555.8877 (Fax)
www.kaskaskiaeng.com
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20-088556

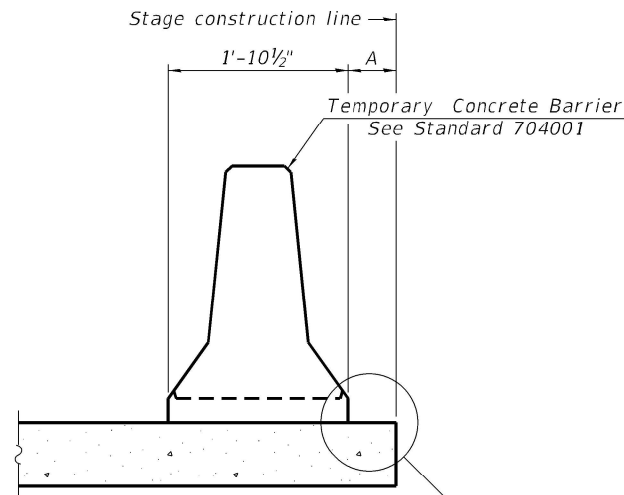
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 008-0015

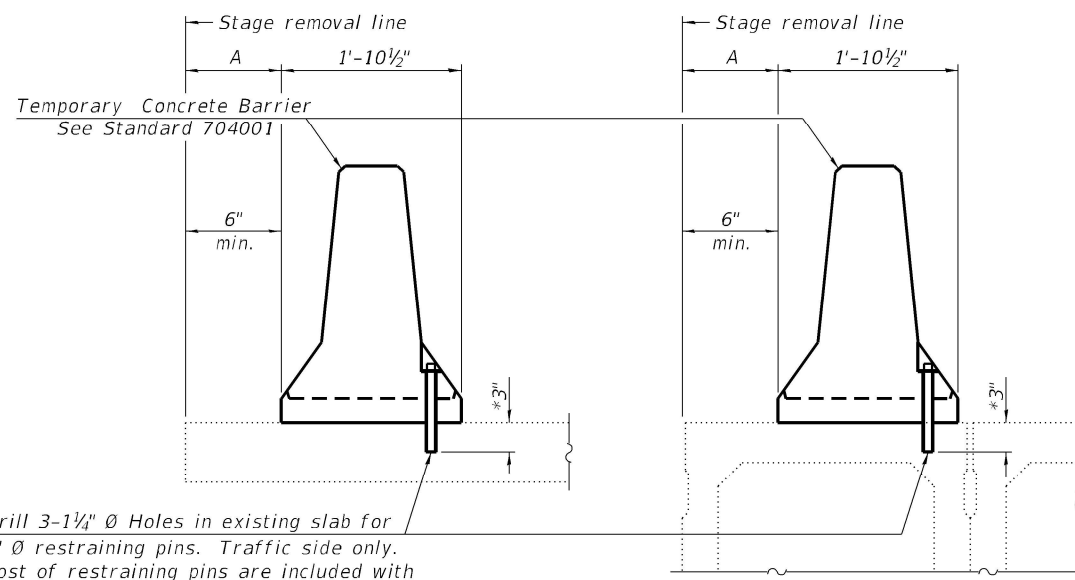
SHEET 2 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	13
CONTRACT NO. 64R51				
ILLINOIS		FED. AID PROJECT		



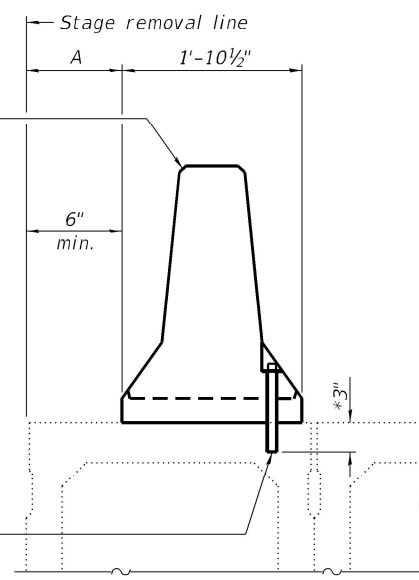
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



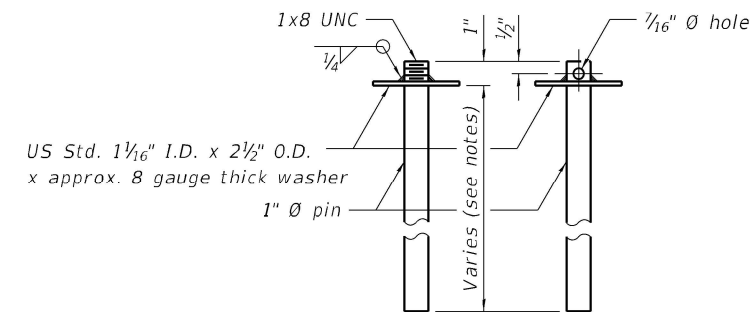
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



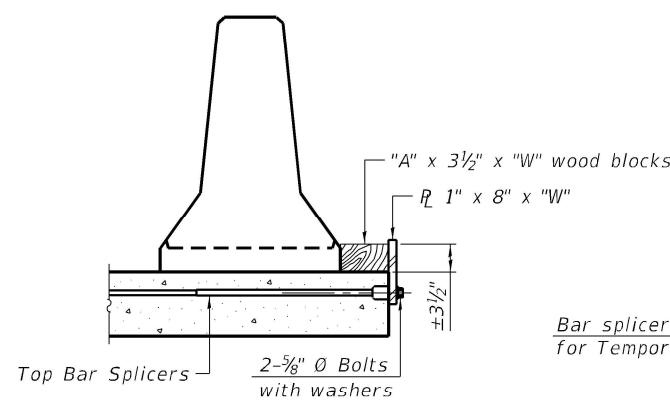
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

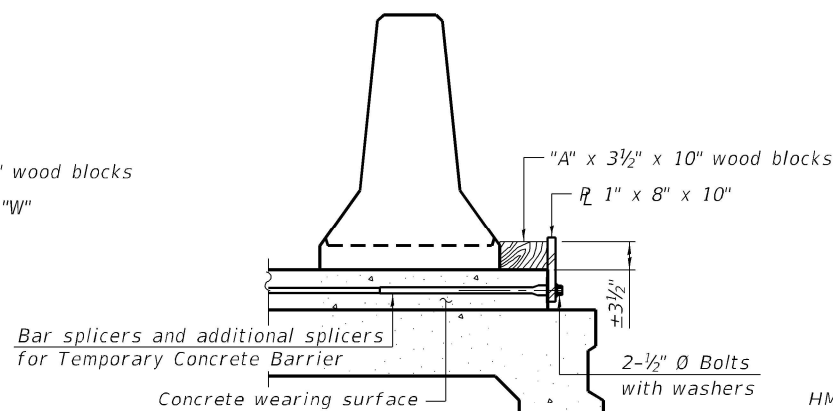


RESTRAINING PIN

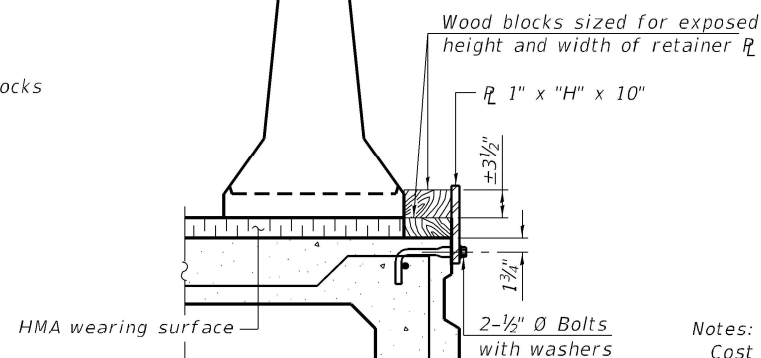
SECTIONS THRU SLAB OR DECK BEAM



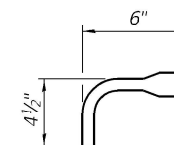
DETAIL I



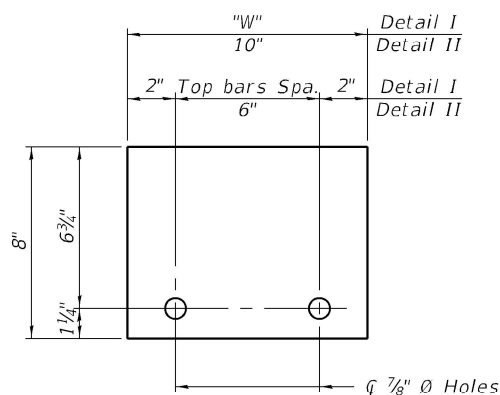
DETAIL II



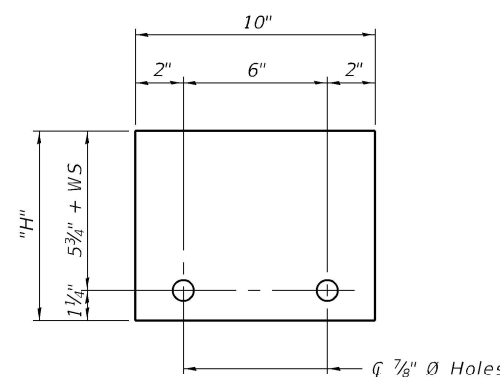
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate $\frac{1}{2}$ of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

- Detail I - Installation for a new bridge deck or bridge slab.
- Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
- Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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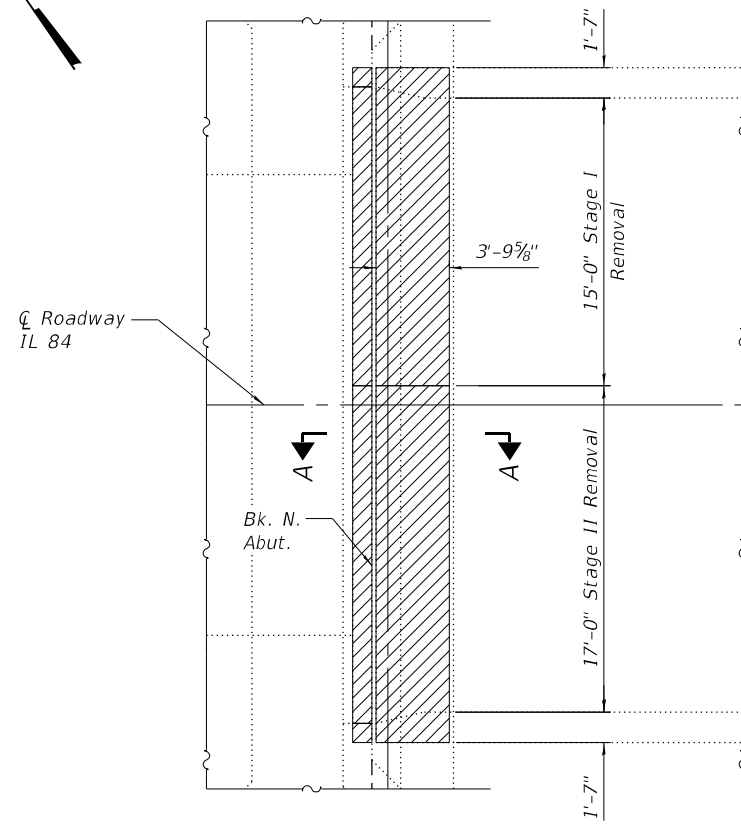
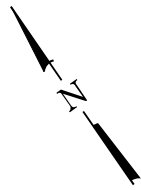
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

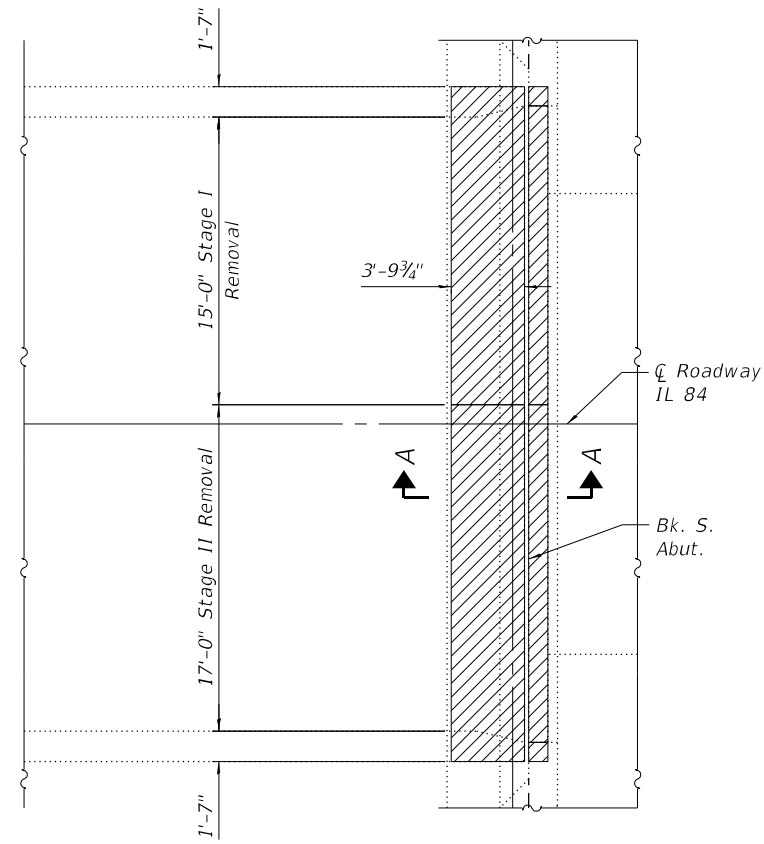
TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 008-0015

SHEET 3 OF 17 SHEETS

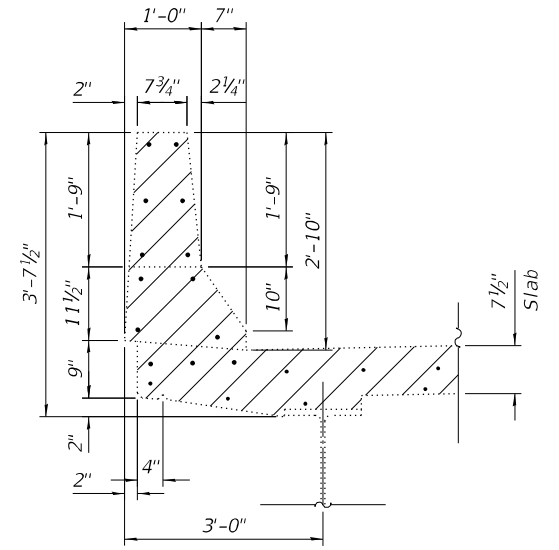
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	14
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				



PLAN
(North Abutment - Showing Concrete Removal)



PLAN
(South Abutment - Showing Concrete Removal)



SECTION THRU PARAPET

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	9.0

Notes:

The Contractor shall use extreme care during concrete removal so as not to damage the existing steel beams. Any steel damaged during concrete removal operations shall be repaired at the Contractor's expense.

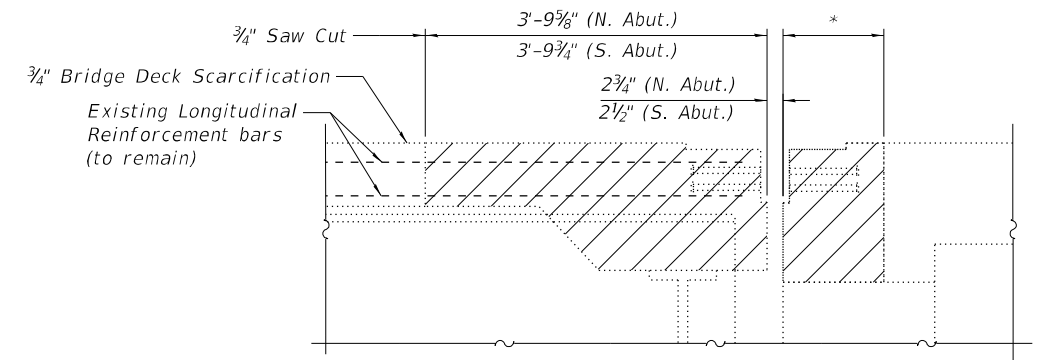
Removal of existing expansion joint and associated material shall not be paid for separately, but shall be included in the cost of Concrete Removal.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction.

Any reinforcement bars that are damaged during concrete removal operations shall be replaced at the Contractor's expense.

Stud shear connectors damaged during concrete removal operations shall be removed and replaced per Section 505 of the Standard Specifications at the Contractor's expense.

* See sheets 11 thru 14 of 17 for abutment concrete removal and reconstruction details.



SECTION A-A

Indicates Concrete Removal

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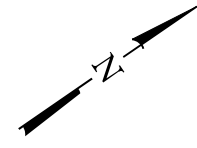
Kaskaskia
Engineering Group, LLC
Professional Engineering Firm
1127 N. W. 11th St.
Tomball, TX 77375
281-291-1111

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

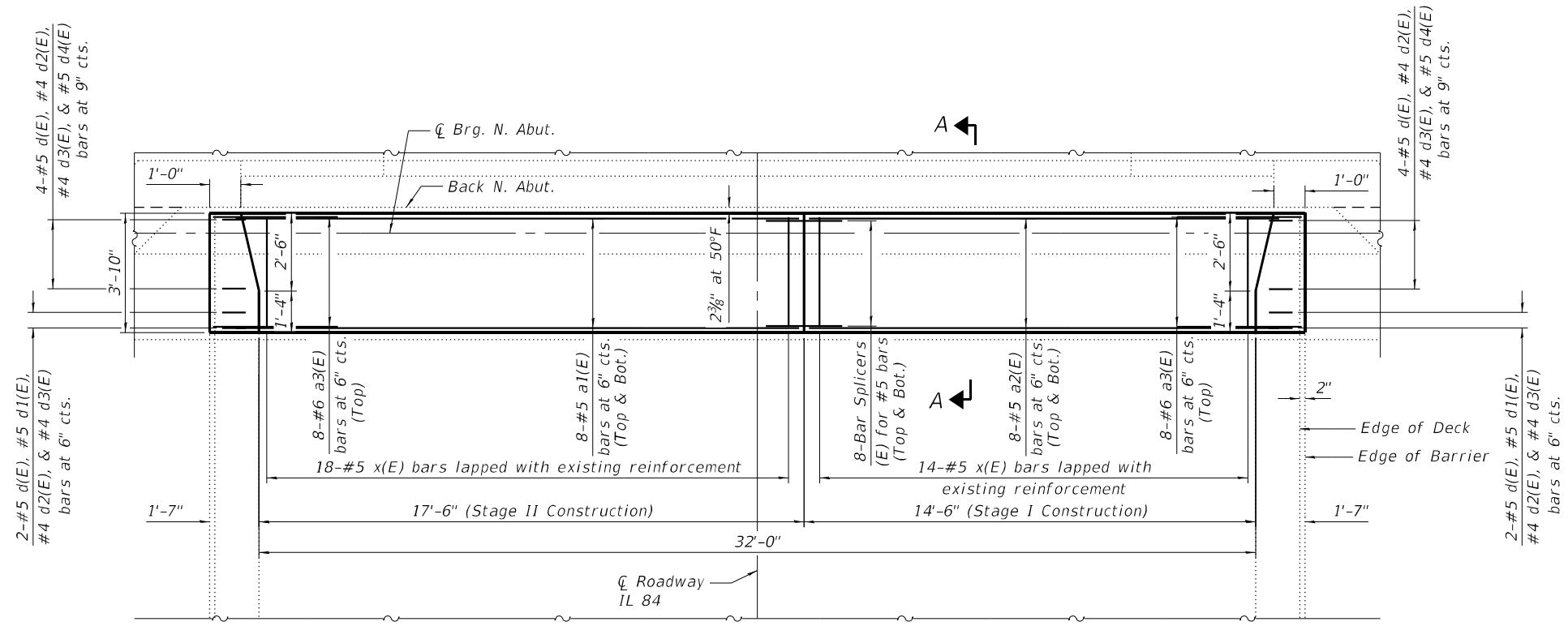
CONCRETE REMOVAL DETAILS
STRUCTURE NO. 008-0015

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64R51				

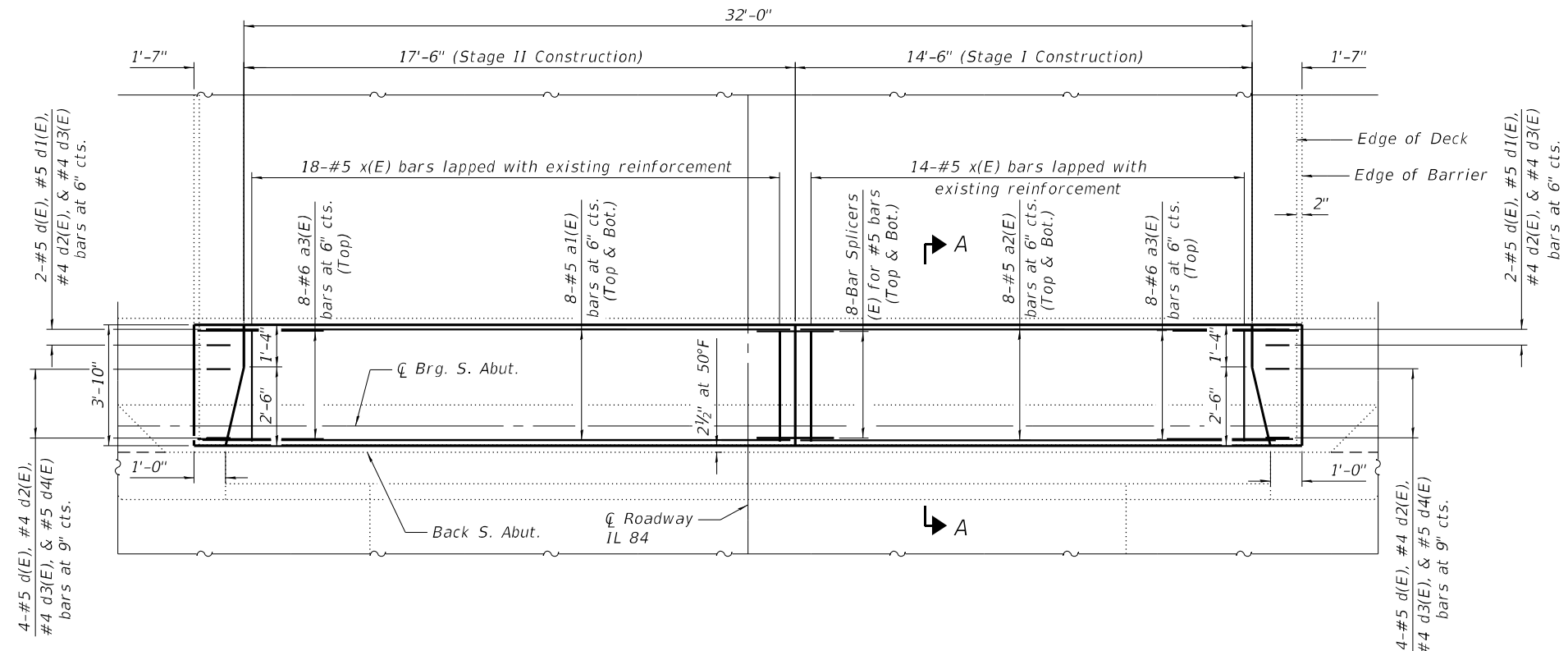


MINIMUM BAR LAP
#5 bar = 3'-6"

Notes:
See Sheet 6 of 17 for Section A-A.



PLAN
(Showing North Abutment)



PLAN
(Showing South Abutment)

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Professional Engineering Firm
1127 S. Main St., Suite 100
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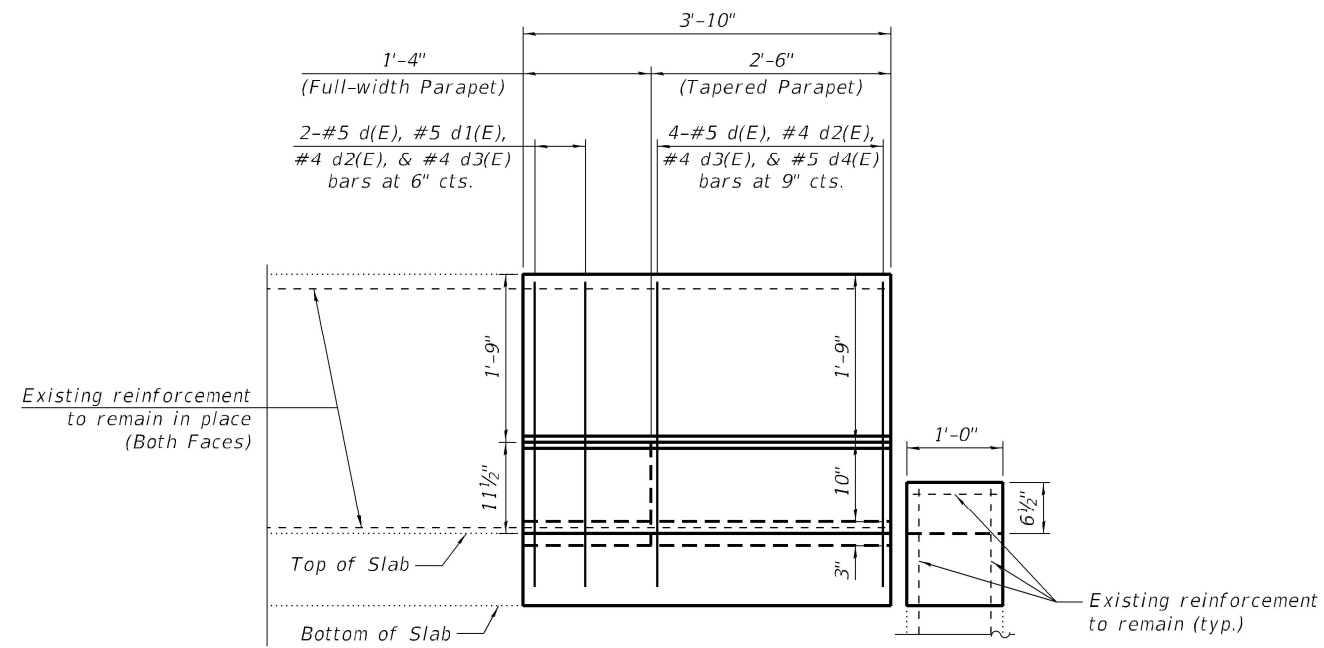
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 008-0015

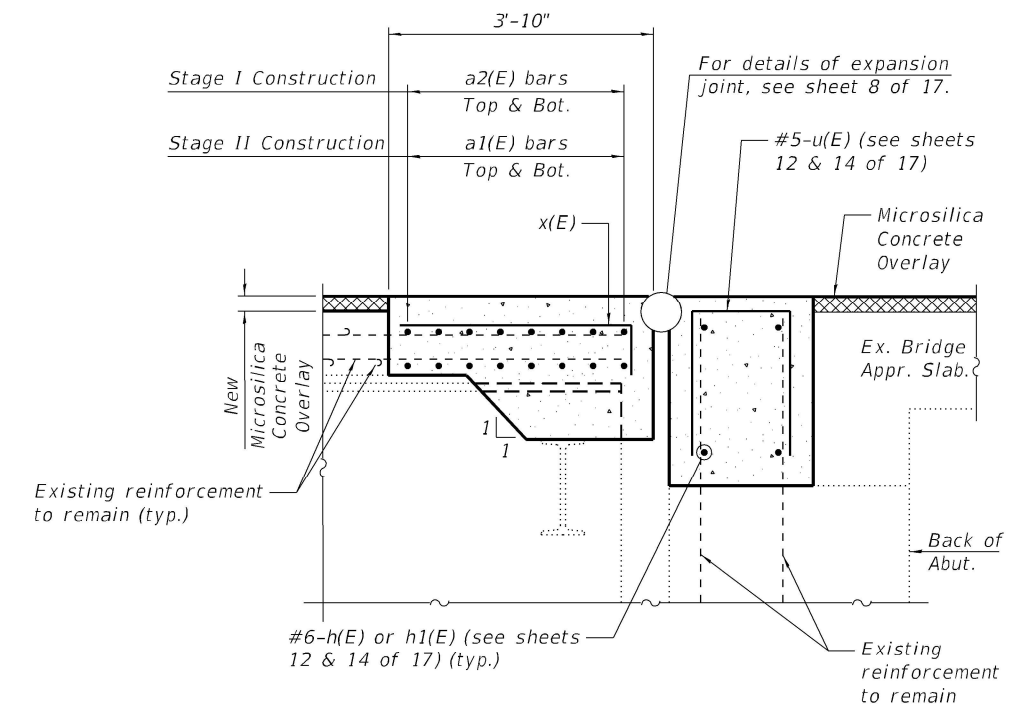
SHEET 5 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				



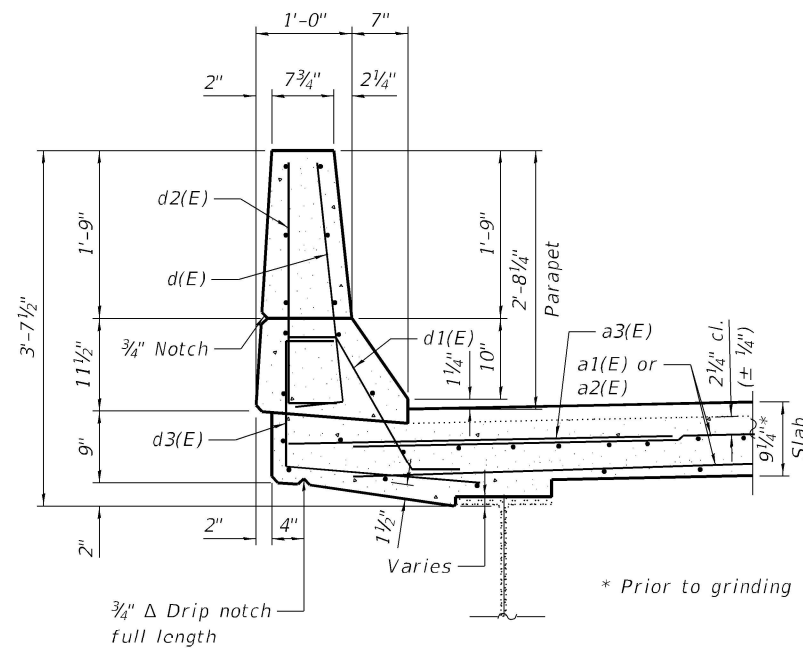
Outside Elevation

(West Parapet - South Abutment shown, others similar)

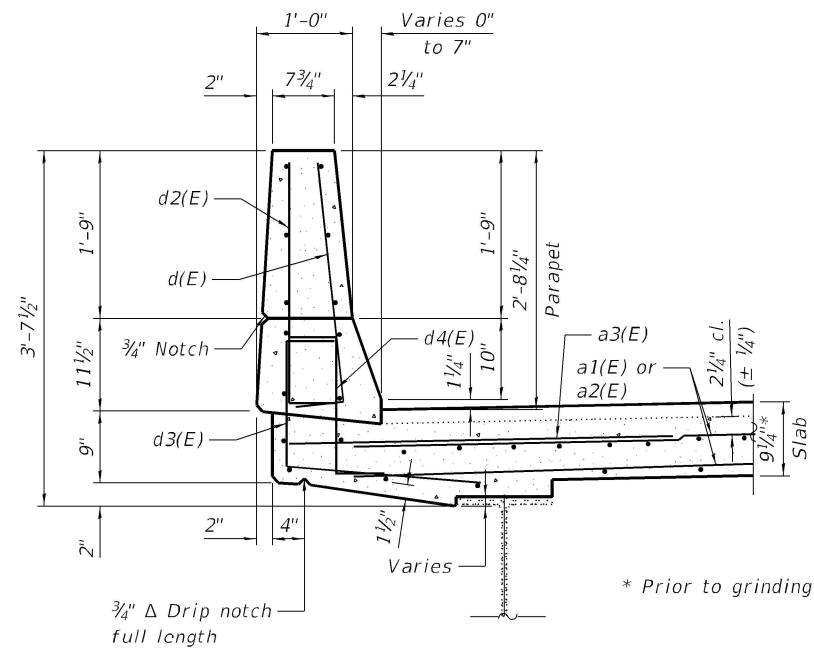


SECTION A-A

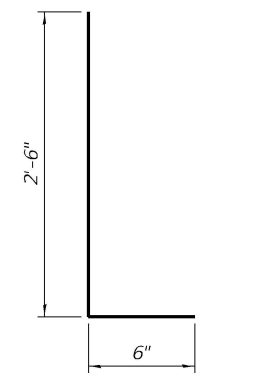
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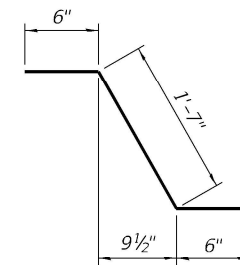
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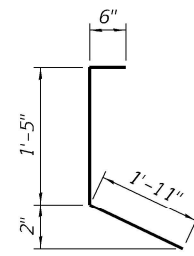
SECTION THRU TAPERED PARAPET



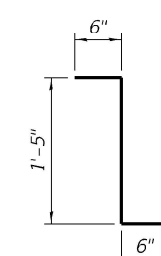
BAR d(E), d2(E)



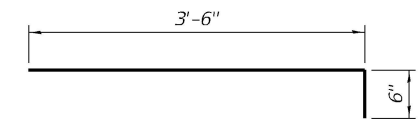
BAR d1(E)



BAR d3(E)



BAR d4(E)



BAR x(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	32	#5	18'-7"	▬
a2(E)	32	#5	15'-7"	▬
a3(E)	32	#6	4'-0"	▬
d(E)	24	#5	3'-0"	┆┆┆
d1(E)	8	#5	2'-7"	┆┆┆
d2(E)	24	#4	3'-0"	┆┆┆
d3(E)	24	#4	3'-10"	┆┆┆
d4(E)	16	#5	2'-5"	┆┆┆
x(E)	64	#5	4'-0"	┆┆┆
Concrete Superstructure			Cu. Yd.	10.8
Reinforcement Bars, Epoxy Coated			Pound	1,850

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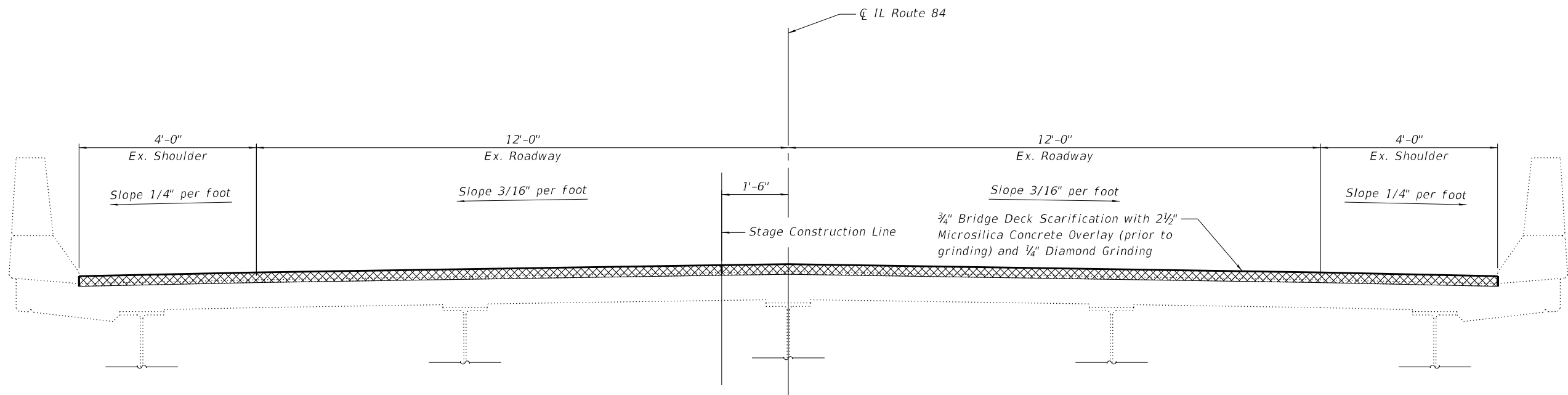
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DEPARTMENT OF TRANSPORTATION**

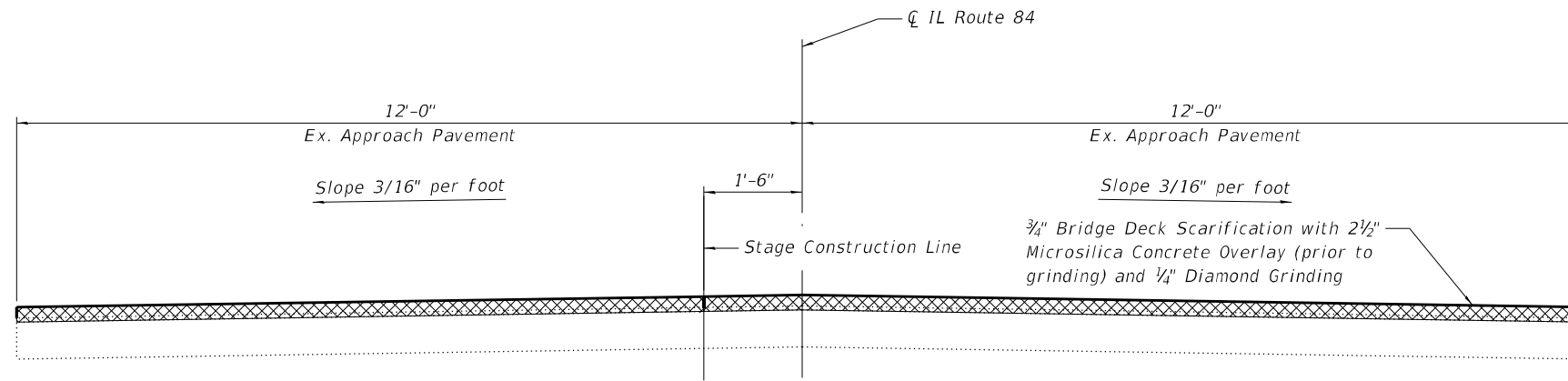
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 008-0015**

SHEET \$SHT\$ OF \$TOT\$ SHEETS

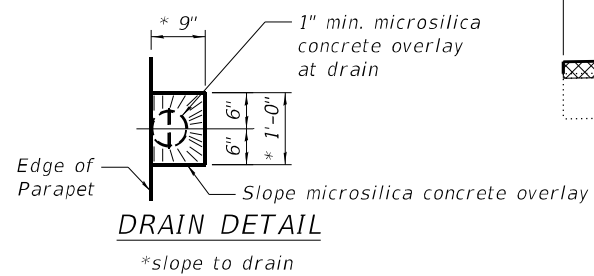
F.A.P. RTE. 308	SECTION (104 BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 17
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				



SUPERSTRUCTURE TYPICAL SECTION
(Looking Upstation)



APPROACH PAVEMENT TYPICAL SECTION
(Looking Upstation)



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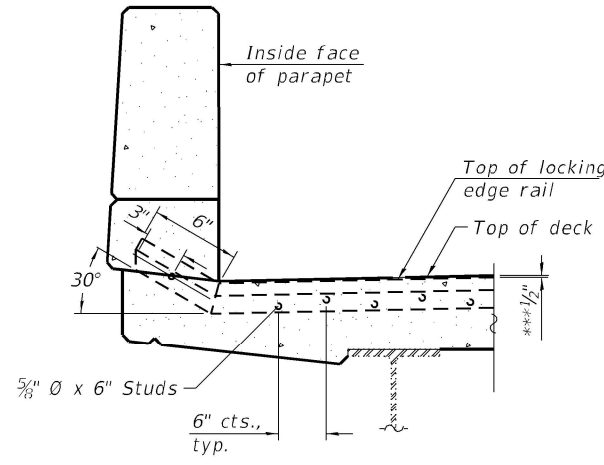
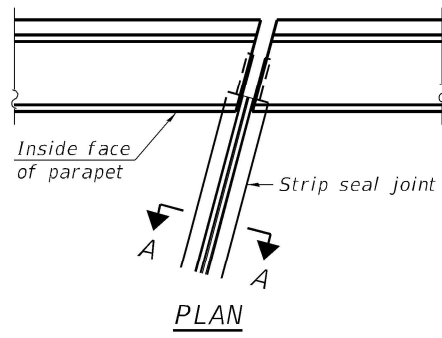
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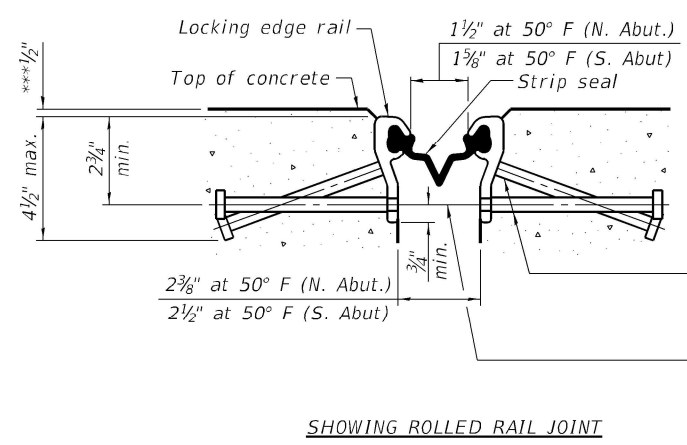
SUPERSTRUCTURE TYPICAL SECTION
STRUCTURE NO. 008-0015

SHEET 7 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	18
CONTRACT NO. 64R51				
ILLINOIS		FED. AID PROJECT		



SECTION AT PARAPET
*** Prior to 1/4" Diamond Grinding

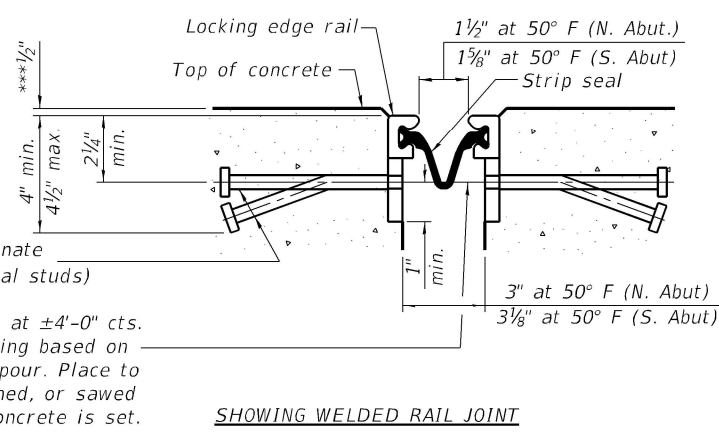


SHOWING ROLLED RAIL JOINT

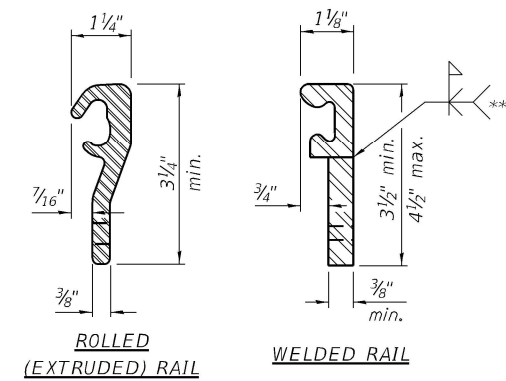
* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
 *** Prior to 1/4" Diamond Grinding

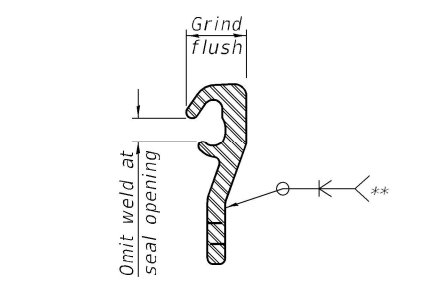


SHOWING WELDED RAIL JOINT



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	69

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
 The manufacturer's recommended installation methods shall be followed.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

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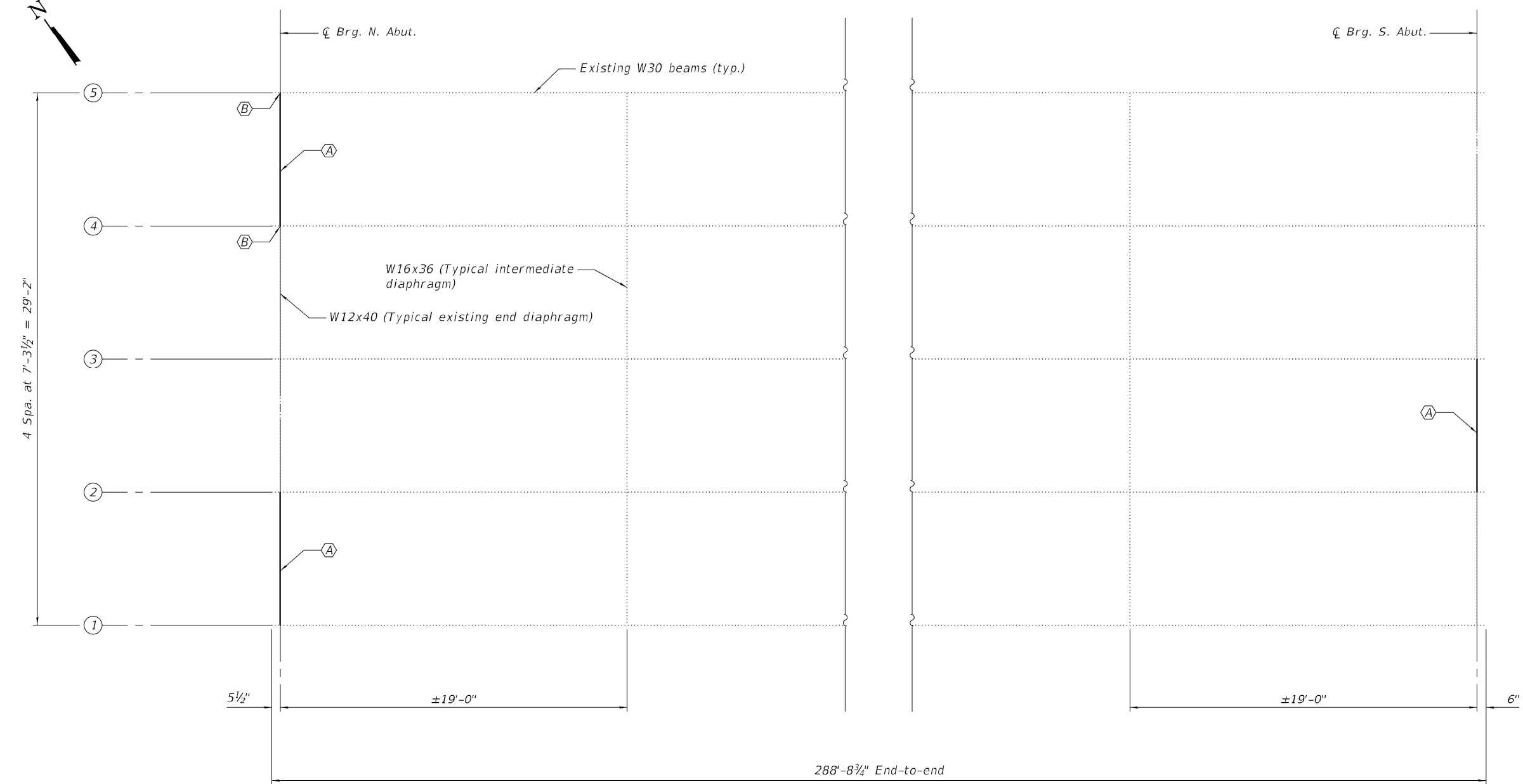
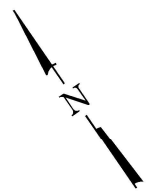
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PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 008-0015

SHEET 8 OF 17 SHEETS

F.A.P. RTE. 308	SECTION (104 BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 19
ILLINOIS			CONTRACT NO. 64R51	
FED. AID PROJECT				



REPAIR LEGEND

- Ⓐ Existing W12x40 end diaphragm to be removed and replaced
- Ⓑ Beam end repair

Note:
For repair details, see sheet 10 of 17.

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL REPAIR PLAN
STRUCTURE NO. 008-0015**

SHEET 9 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	20
CONTRACT NO. 64R51				

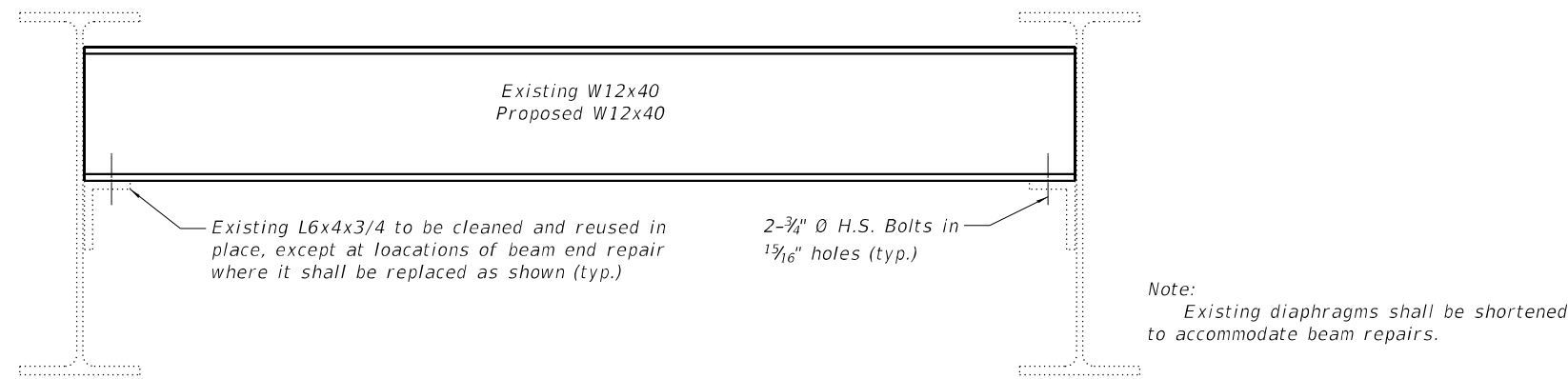
ILLINOIS FED. AID PROJECT

STEEL REPAIR 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 work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."
 Fasteners shall be high strength bolts. Bolts 7/8", open holes 1 5/16", unless otherwise noted.

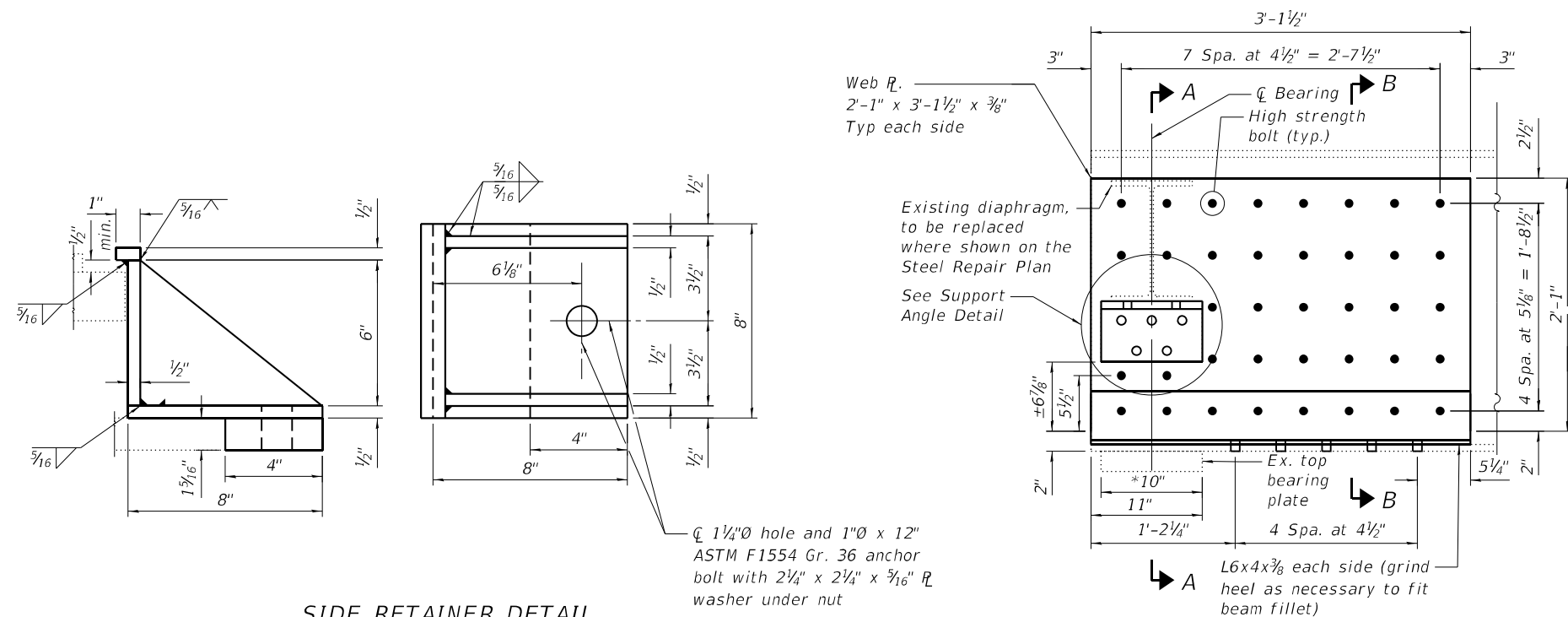
Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions, including cost of drilling holes in existing steel members, shall be included in Furnishing and Erecting Structural Steel.
 Existing structural steel 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 welds shall be ground smooth.
 Height of support angles shown is approximate. Adjust position of support angles to align with the bottom of existing or proposed diaphragms in the field. Field-drill holes for support angles.

See sheet 9 of 17 for Steel Repair Plan.



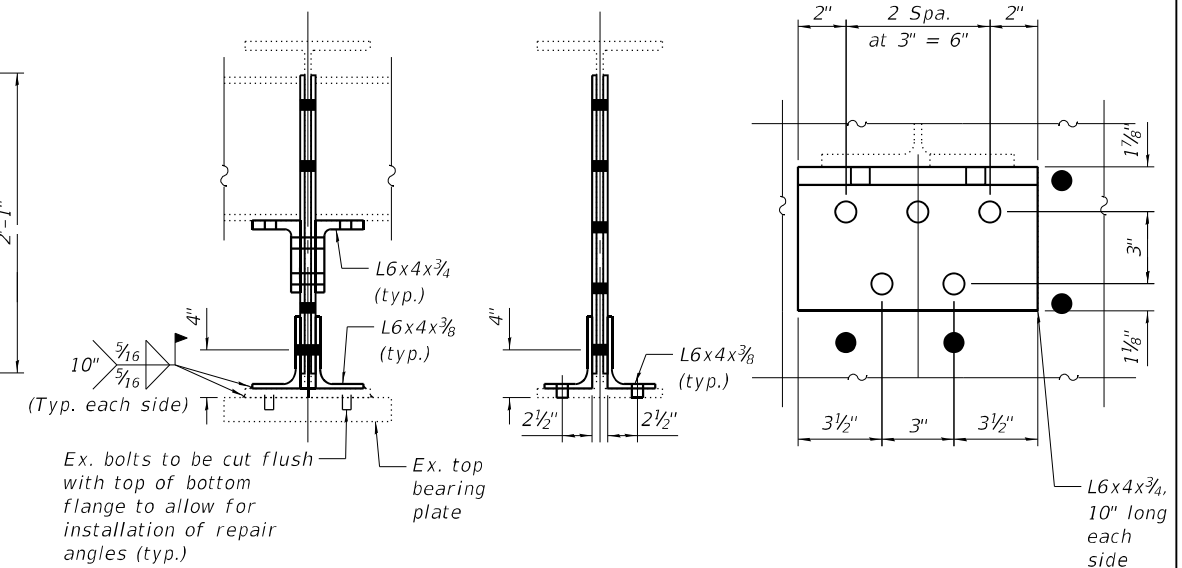
DIAPHRAGM REPLACEMENT DETAIL

Beam repairs not shown for clarity



SIDE RETAINER DETAIL

ELEVATION



SECTION A-A

SECTION B-B

SUPPORT ANGLE DETAIL

BEAM END REPAIR

Beam End Repair with reinstallation of existing diaphragms shown, replacement of diaphragms similar

BOLT HOLE LEGEND

- Shop-drilled hole in web \perp
- Field-drilled hole

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1,200
Structural Steel Removal	Pound	1,200
Structural Steel Repair	Pound	1,160

Notes:
 Equivalent rolled angles with stiffeners will be allowed in lieu of welded plates. Dimensions of side retainers to be verified in the field prior to ordering or fabrication of replacement side retainers.
 Burn existing anchor bolts flush with top of existing bottom bearing plate. Grind existing anchor bolts smooth and seal with epoxy. Cost is incidental to Structural Steel Removal.
 Provide two 1/8" adjusting shims for each side retainer. Adjustments to the required side retainer height shall be made with these shims as necessary.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

*Field weld angle to bottom flange and bottom flange to top bearing plate as shown in Section A-A.

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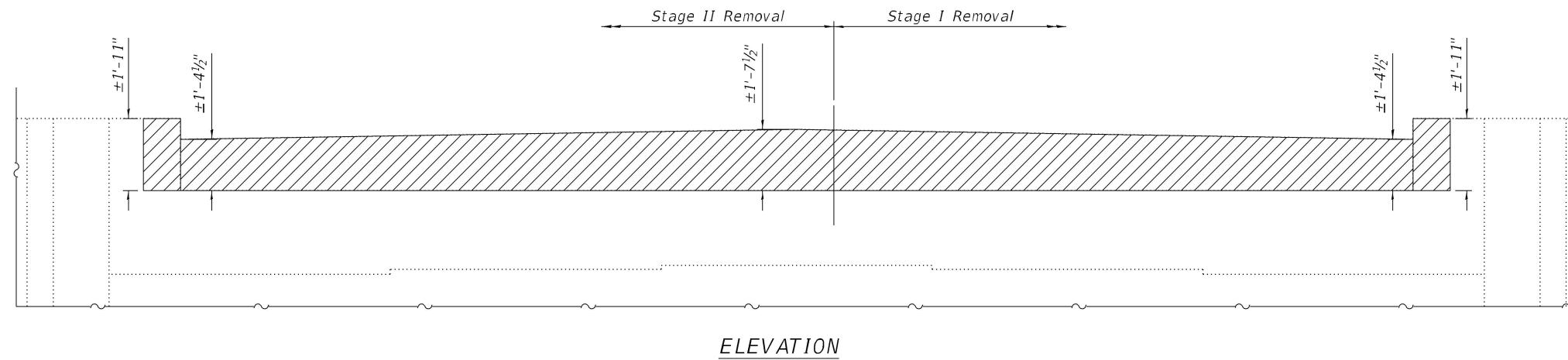
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

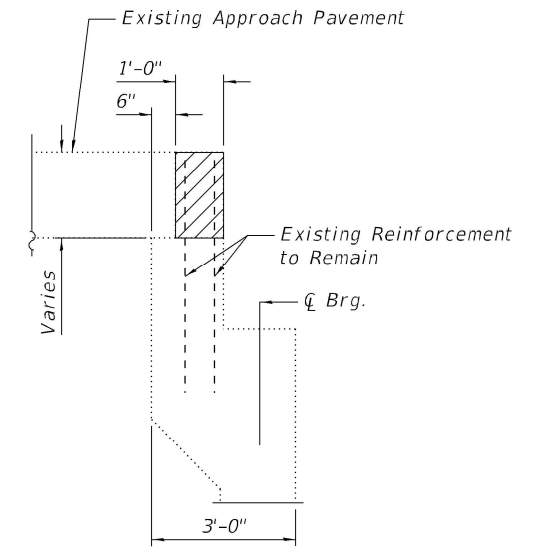
STEEL REPAIR DETAILS
STRUCTURE NO. 008-0015

SHEET 10 OF 17 SHEETS

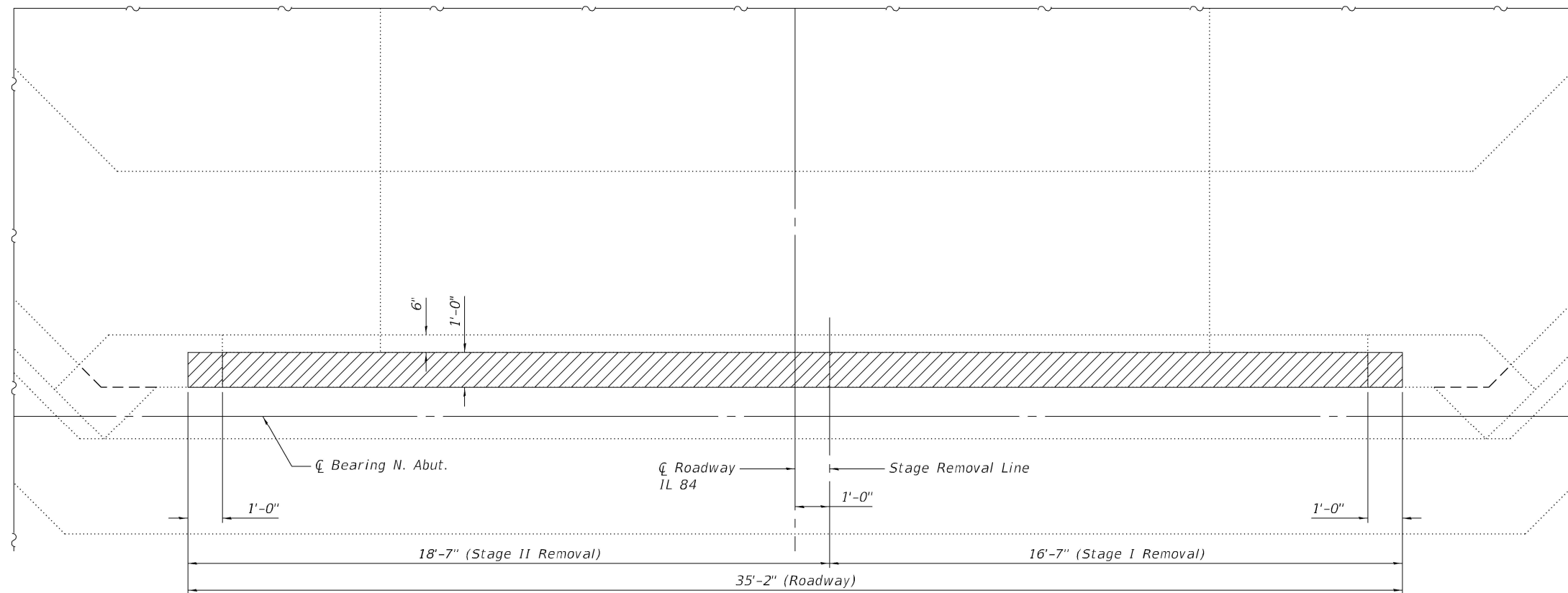
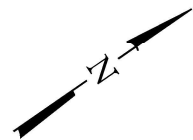
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	21
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				



ELEVATION



SECTION THRU ABUTMENT



PLAN

- Indicates Limits of Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.1

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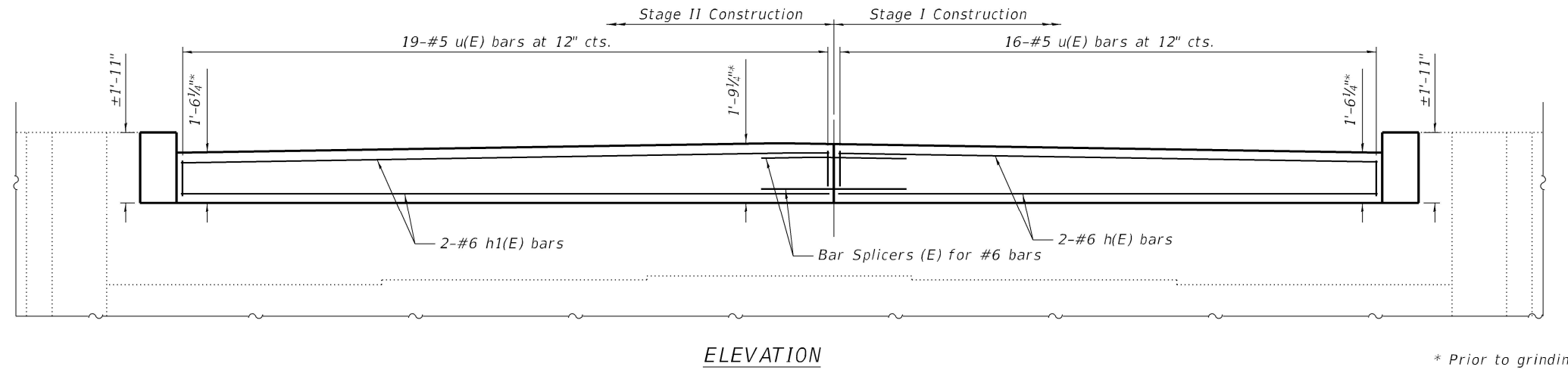
Kaskaskia
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1127 N. 1st St.
Moline, IL 61704
314.288.8888

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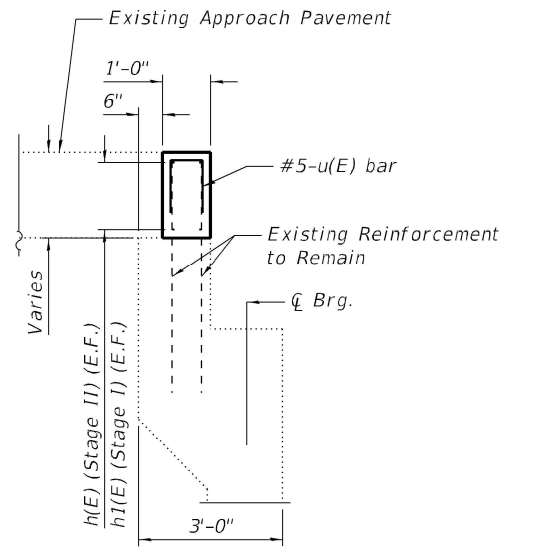
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT CONCRETE REMOVAL
STRUCTURE NO. 008-0015
SHEET \$SHT\$ OF \$TOT\$ SHEETS

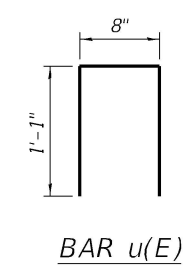
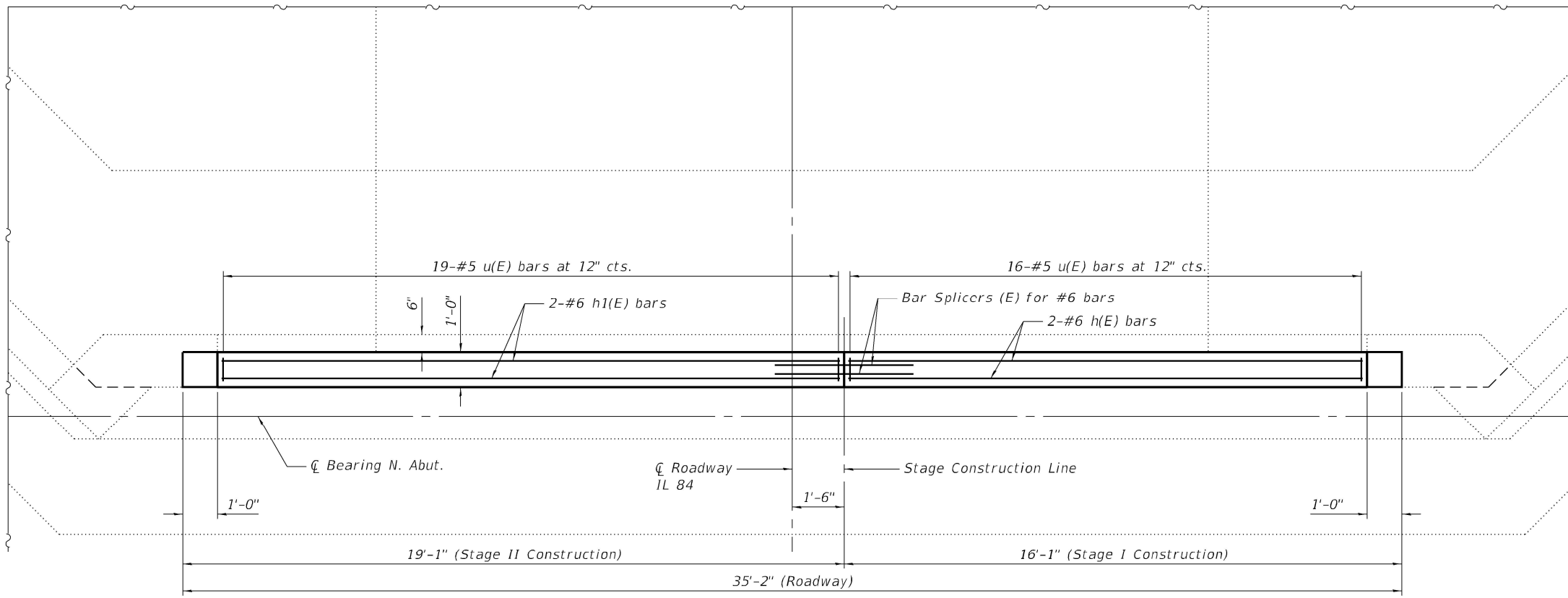
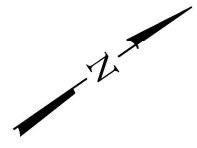
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308	(104 BY-R)BDR	CARROLL	36	22
CONTRACT NO. 64R51				
ILLINOIS FED. AID PROJECT				



* Prior to grinding



SECTION THRU ABUTMENT



NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#6	14'-10"	—
h1(E)	4	#6	17'-10"	—
u(E)	35	#5	2'-10"	U
Concrete Superstructure			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	300

MODEL: Default
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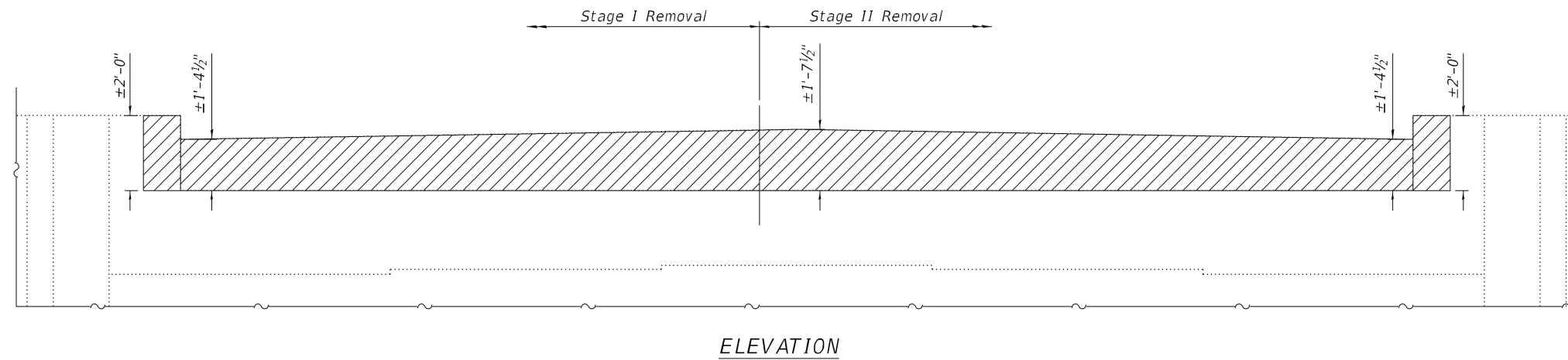
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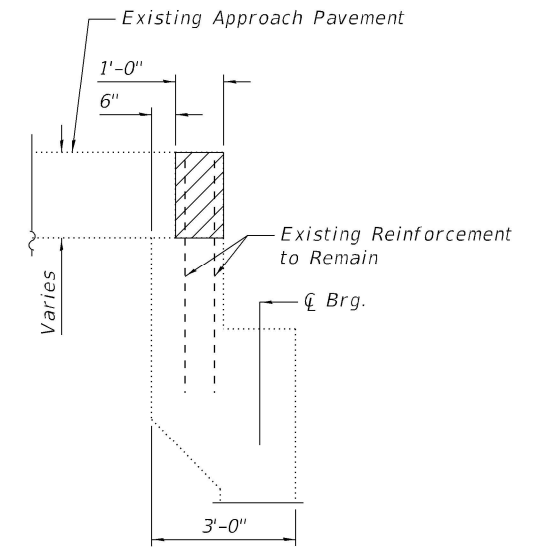
NORTH ABUTMENT PLAN & ELEVATION
STRUCTURE NO. 008-0015

F.A.P. RTE. 308	SECTION (104 BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 23
CONTRACT NO. 64R51			ILLINOIS FED. AID PROJECT	

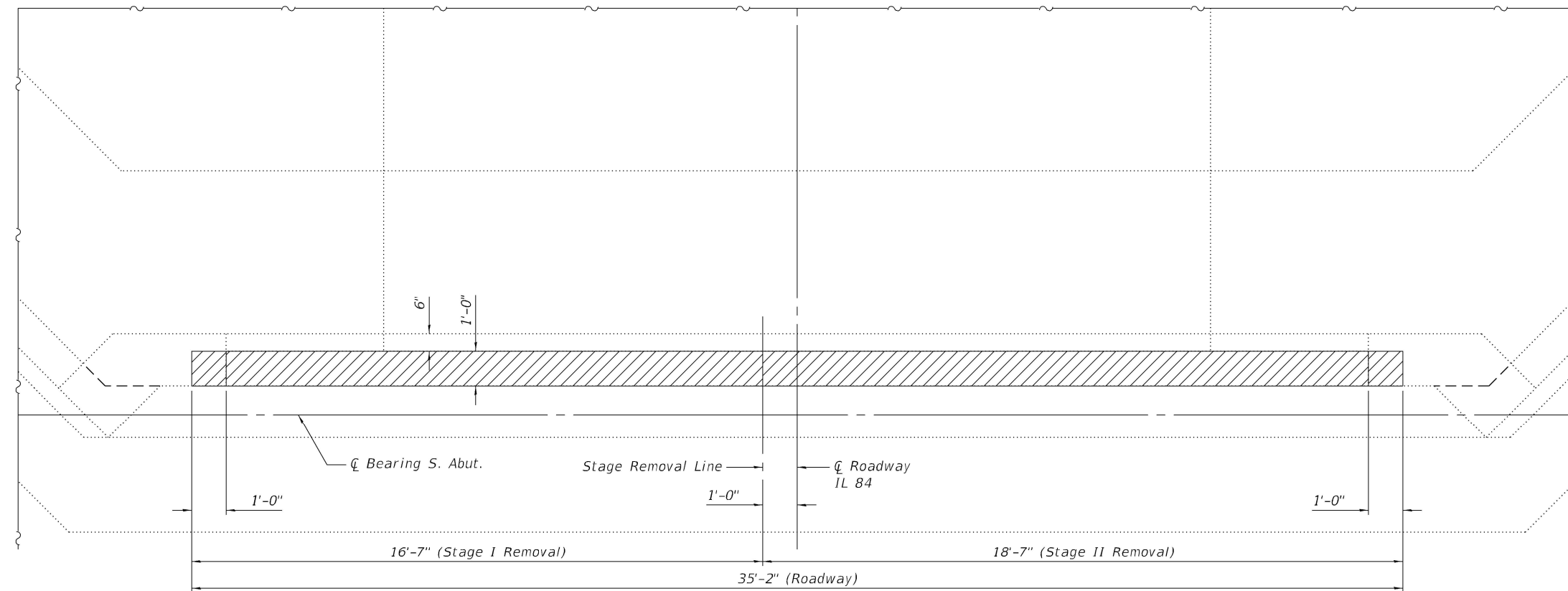
SHEET \$\$SHTS OF \$TOTS SHEETS



ELEVATION



SECTION THRU ABUTMENT



PLAN

- Indicates Limits of Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.1

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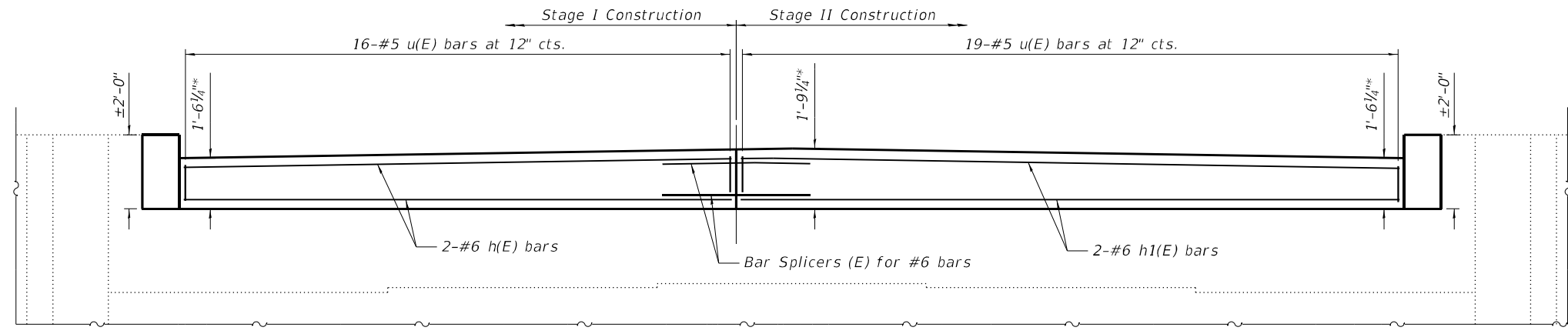
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Engineering Group, LLC
Professional Engineering Firm
1127 N. W. 1st St.
Bloomington, IL 61701
309-244-4444

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

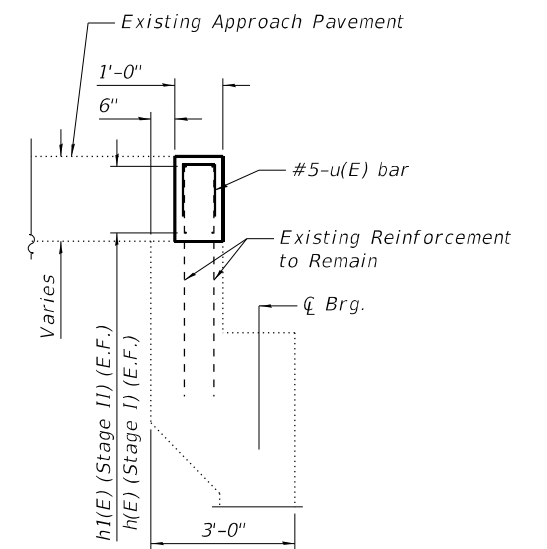
SOUTH ABUTMENT CONCRETE REMOVAL
STRUCTURE NO. 008-0015

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64R51				
		ILLINOIS	FED. AID PROJECT	

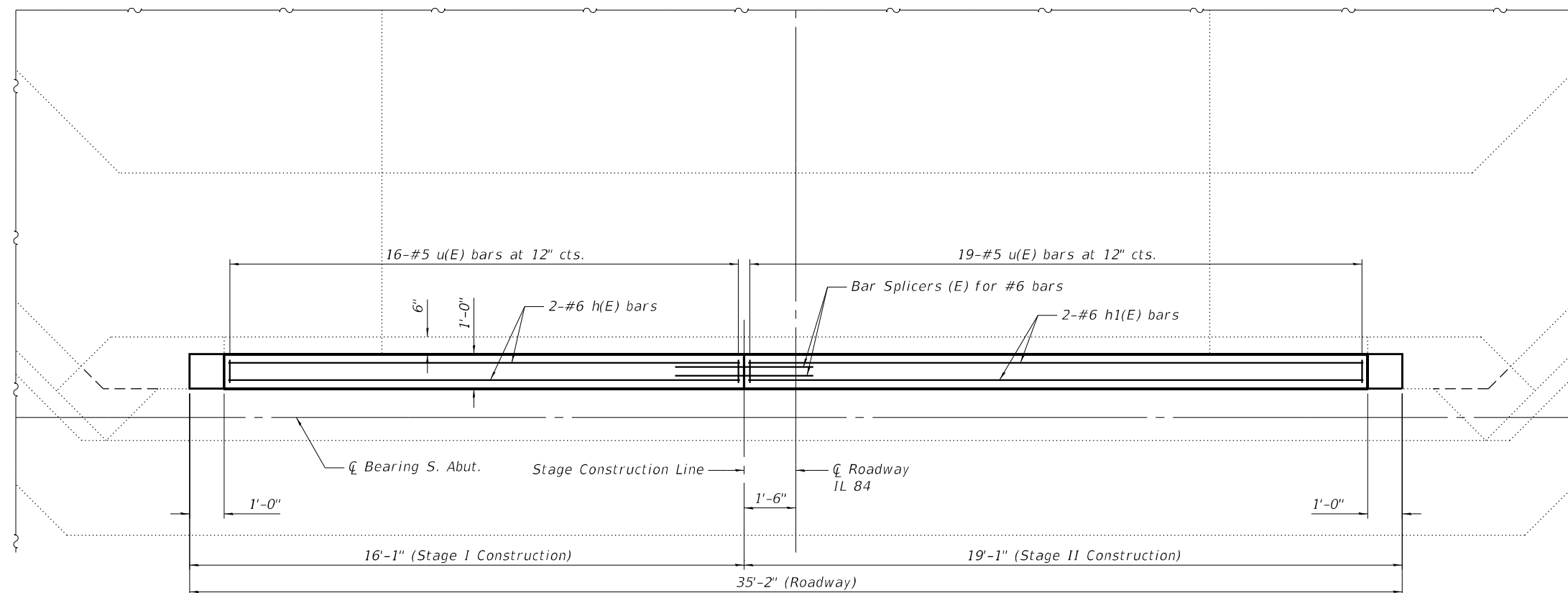
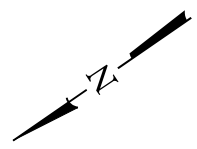


ELEVATION

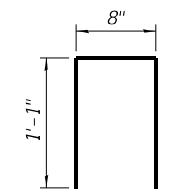
* Prior to grinding



SECTION THRU ABUTMENT



PLAN



BAR u(E)

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#6	14'-10"	—
h1(E)	4	#6	17'-10"	—
u(E)	35	#5	2'-10"	U
Concrete Superstructure			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	300

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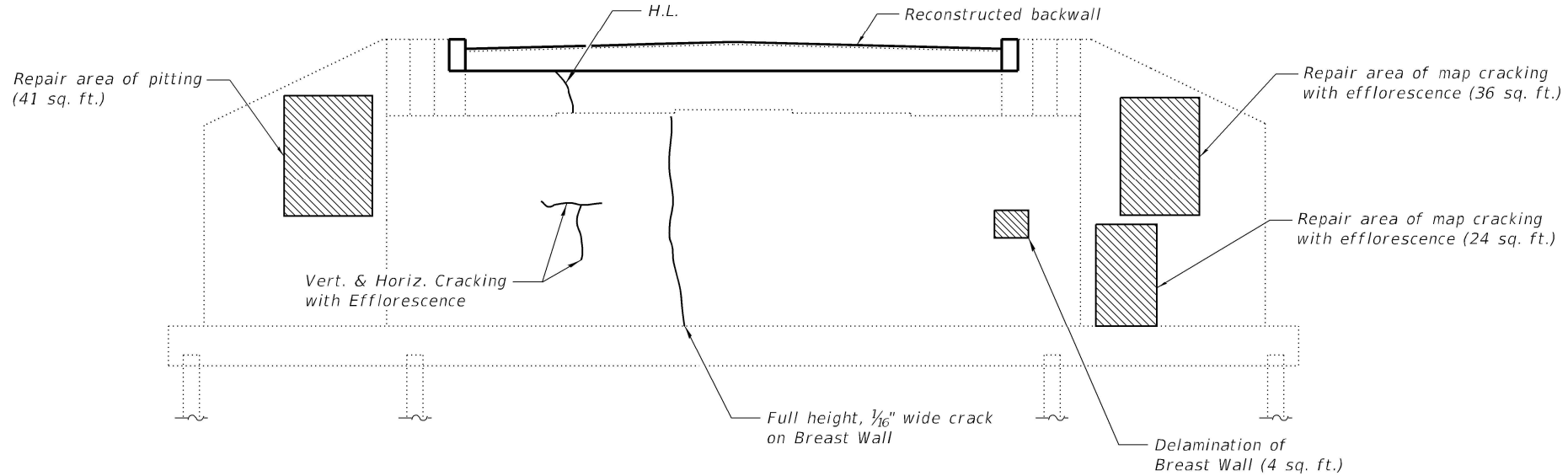
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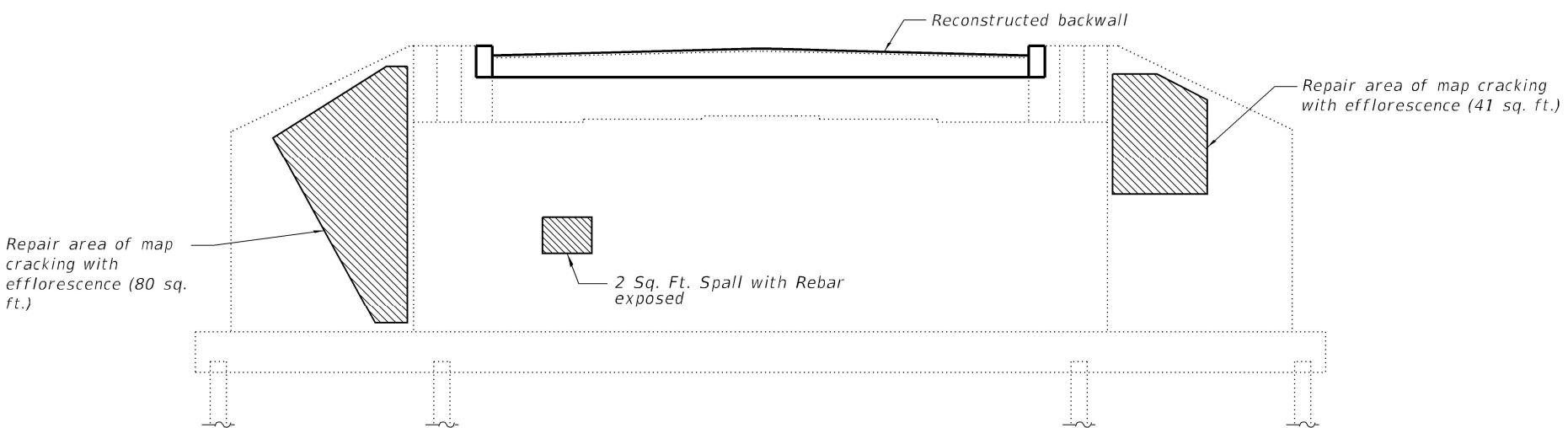
SOUTH ABUTMENT PLAN & ELEVATION
STRUCTURE NO. 008-0015

SHEET \$SHT\$ OF \$TOTS SHEETS

F.A.P. RTE. 308	SECTION (104 BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 25
			CONTRACT NO. 64R51	
		ILLINOIS	FED. AID PROJECT	



NORTH ABUTMENT ELEVATION
(Looking North)



SOUTH ABUTMENT ELEVATION
(Looking South)

- LEGEND**
- Epoxy Crack Injection
 - ▨ Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
 - H.L. Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	228
Epoxy Crack Injection	Foot	21

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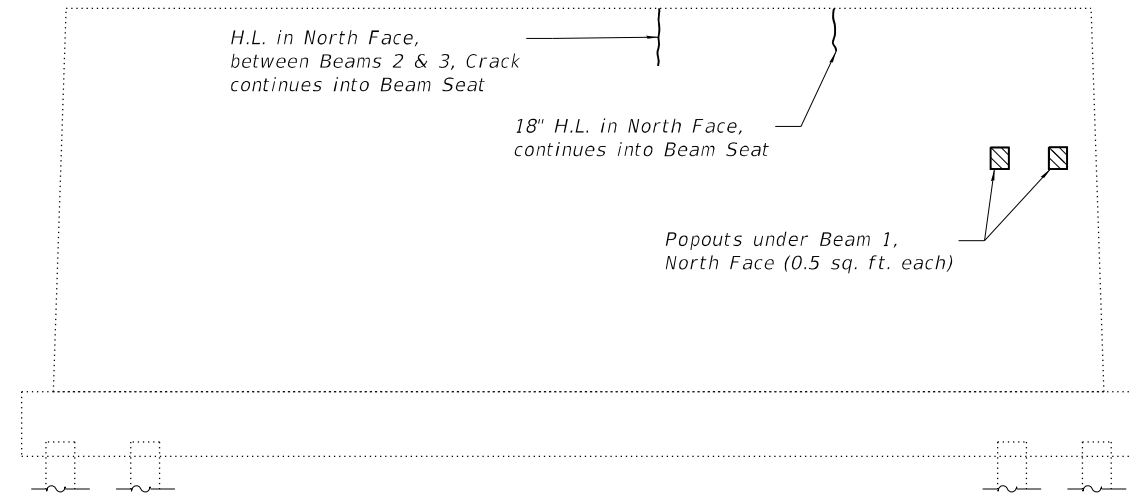
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	CHECKED - JW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

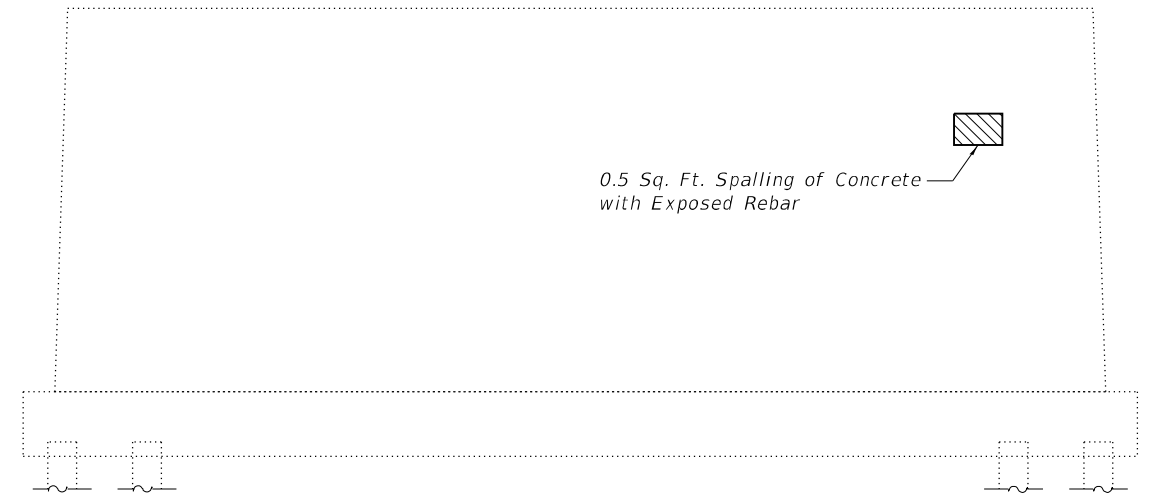
ABUTMENT REPAIRS
STRUCTURE NO. 008-0015

SHEET \$SHT\$ OF \$TOTS SHEETS

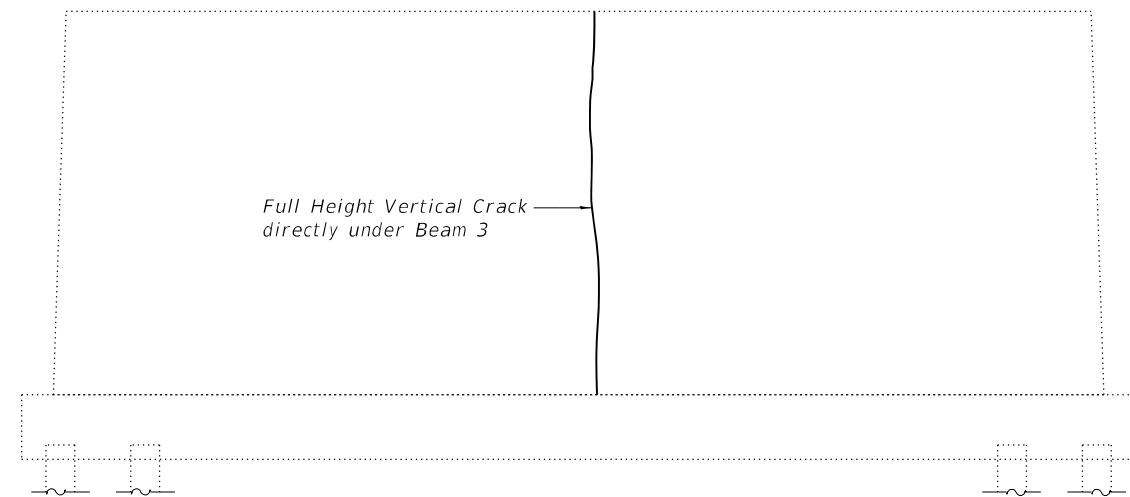
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308	(104 BY-R)BDR	CARROLL	36	26
CONTRACT NO. 64R51				
ILLINOIS		FED. AID PROJECT		



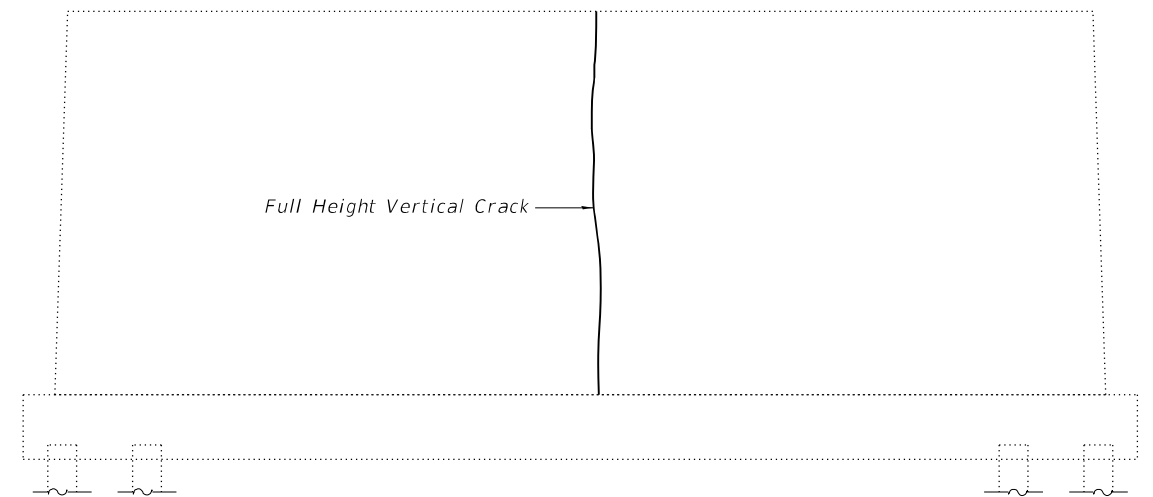
PIER 1 NORTH ELEVATION



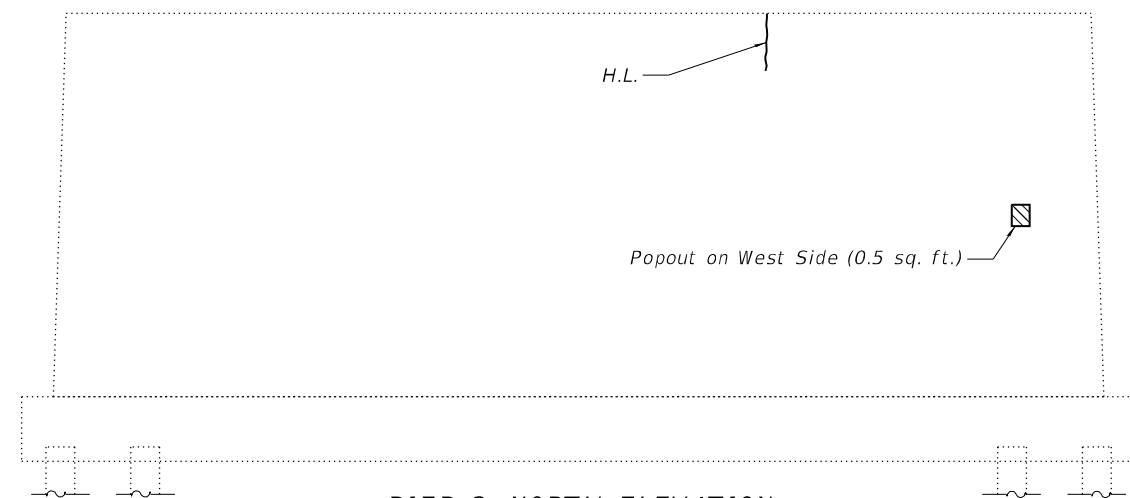
PIER 1 SOUTH ELEVATION



PIER 2 NORTH ELEVATION



PIER 2 SOUTH ELEVATION



PIER 3, NORTH ELEVATION

- LEGEND**
- Epoxy Crack Injection
 - Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
 - H.L. Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	2
Epoxy Crack Injection	Foot	27

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9/27/2022 2:37:41 PM

Kaskaskia
Engineering Group, LLC
Professional Engineering Firm
1127 N. Main St., Suite 100
Moline, IL 61401
617.333.8877
www.kaskaskiaengineering.com

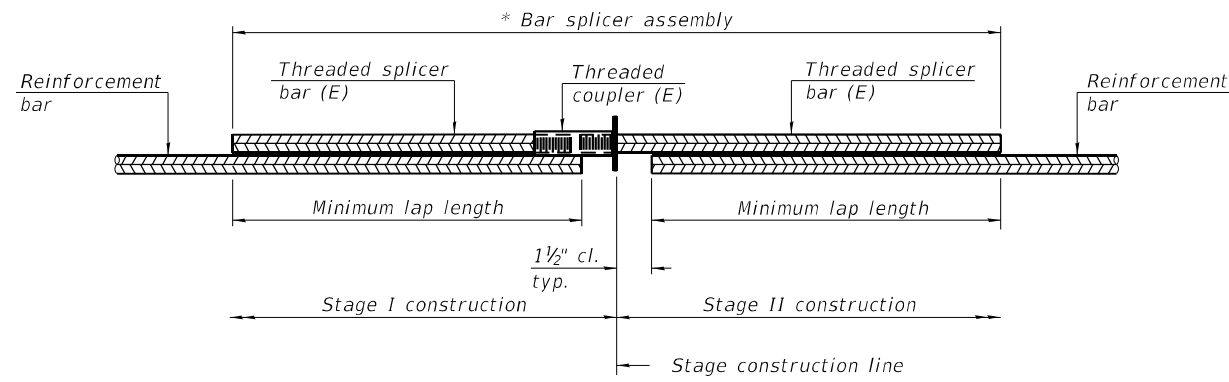
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PLOT DATE =	CHECKED - JW	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER REPAIRS
STRUCTURE NO. 008-0015**

SHEET 16 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104 BY-R)BDR	CARROLL	36	27
CONTRACT NO. 64R51				
		ILLINOIS	FED. AID PROJECT	

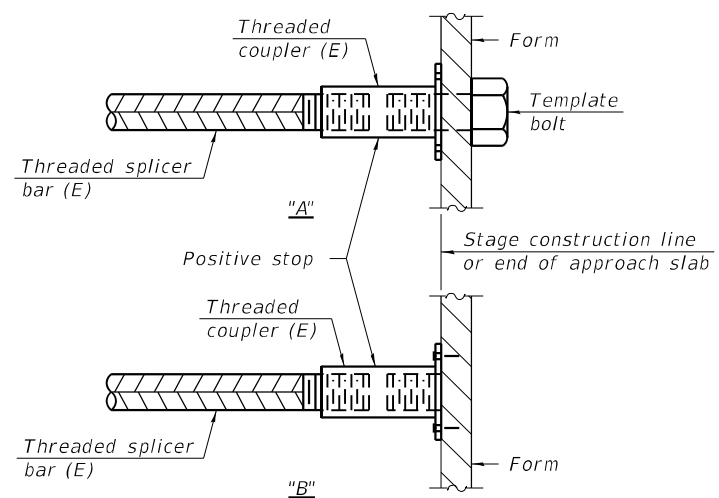


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

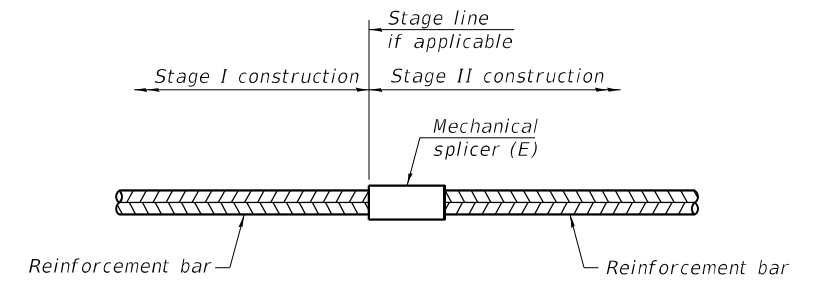
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
North Abutment	#6	4	4'-0"
South Abutment	#6	4	4'-0"
Deck	#5	32	3'-6"



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

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.

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BSD-1

1-1-2020



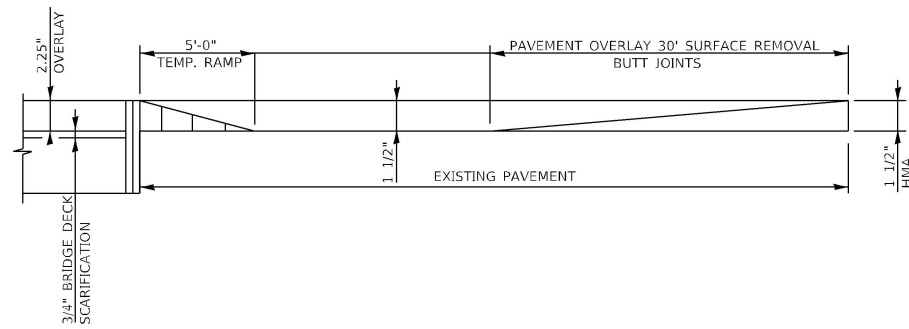
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

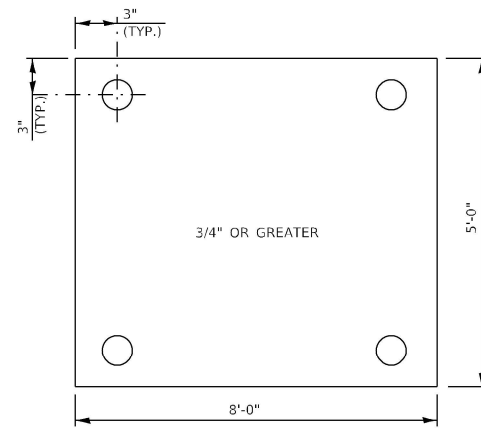
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 008-0015

SHEET 17 OF 17 SHEETS

F.A.P. RTE. 308	SECTION (104 BY-R)BDR	COUNTY CARROLL	TOTAL SHEETS 36	SHEET NO. 28
				CONTRACT NO. 64R51
		ILLINOIS	FED. AID PROJECT	

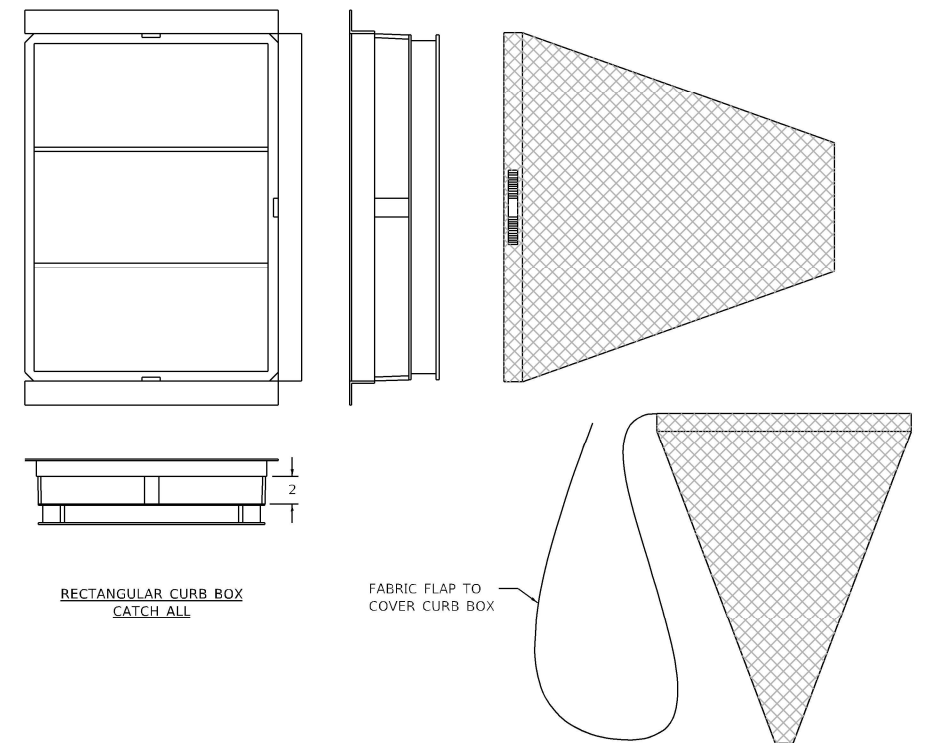


PAVEMENT OVERLAY AND TEMPORARY RAMP DETAIL
NOT TO SCALE



STEEL PLATE DETAIL
N.T.S.

- STEEL PLATE NOTES:
- DURING MOT STAGE 1, THE APPROACH DRAIN AT THE CORNERS OF THE BRIDGES NEED TO BE PROTECTED WITH 3/8" (MIN.) STEEL PLATE ANCHORED WITH 4 ANCHOR BOLTS INTO THE PAVEMENT.
 - THE EDGES OF THE STEEL PLATE SHALL BE TAPERED WITH HMA TO AVOID BUMP FOR TRAFFIC.



RECTANGULAR CURB BOX
CATCH ALL

FABRIC FLAP TO
COVER CURB BOX

INLET FILTER NOTES:

FRAME: TOP FLANGE FABRICATED FROM 1 1/2"x1 1/4"x1/2" ANGLE. BASE RIM FABRICATED FROM 1 1/2"x1/2"x1/2" CHANNEL. HANDLES AND SUSPENSION BRACKETS FABRICATED FROM 1 1/4"x1/2" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.

SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL BAND AND LOCK.

INLET FILTER DETAIL
N.T.S.

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PLOT DATE	= 8/16/2022

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DETAILS
IL 84 OVER RUSH CREEK

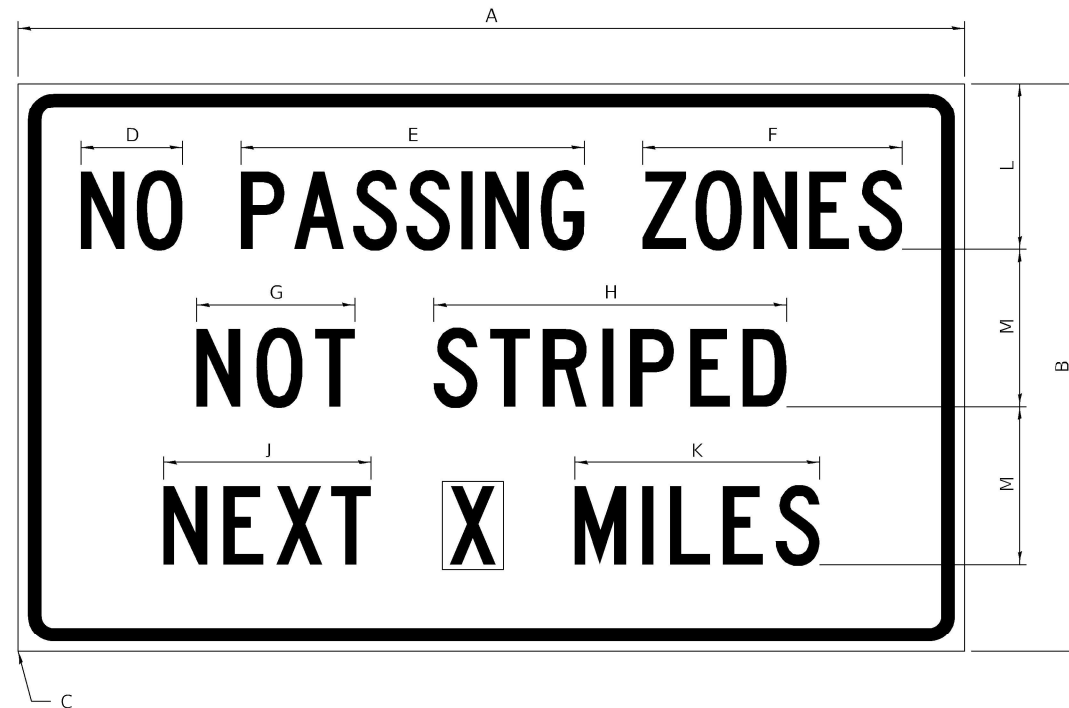
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	29
CONTRACT NO. 64R51			ILLINOIS FED. AID PROJECT	

Long Section Number

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



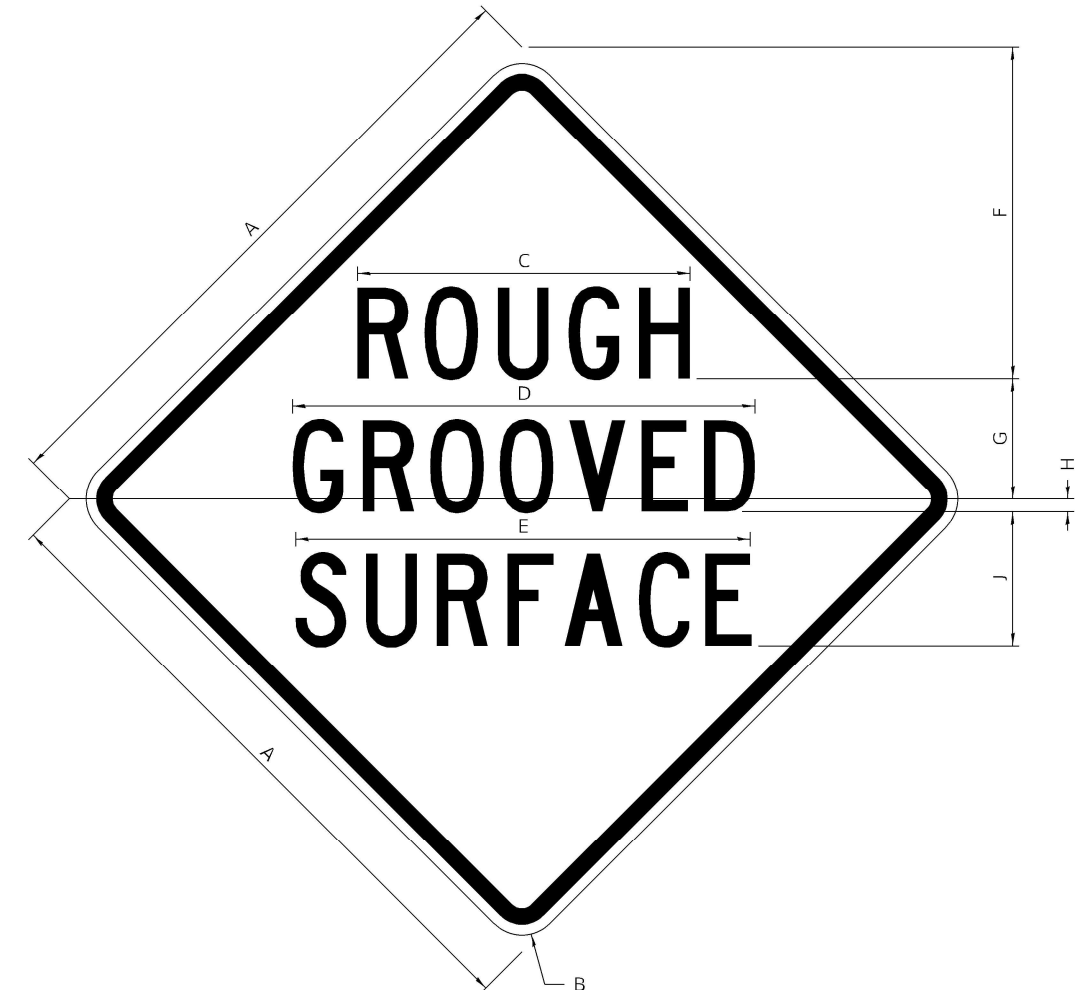
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00	

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD
IL 84 OVER RUSH CREEK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	30
CONTRACT NO. 64R51				

SCALE: SHEET OF SHEETS STA. TO STA.

Long Section Number

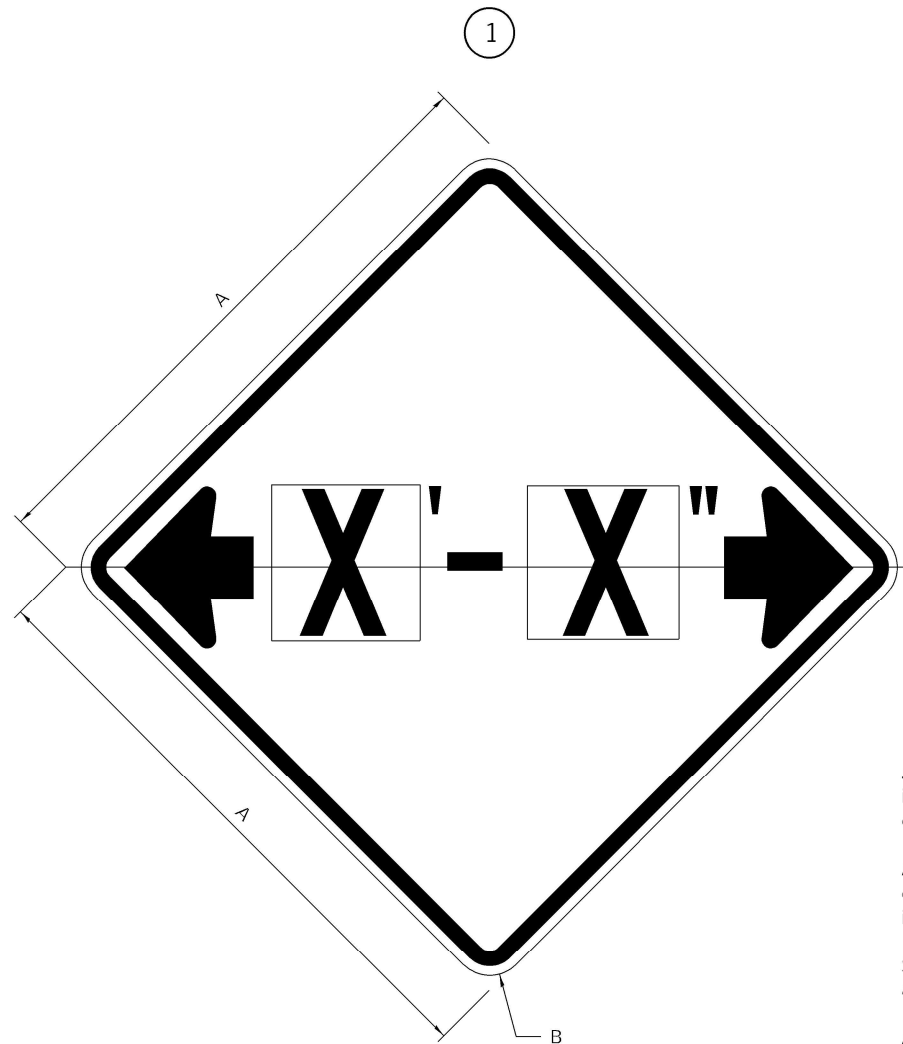
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Kaskaskia
Engineering Group, P.C.
Professional Engineering Group

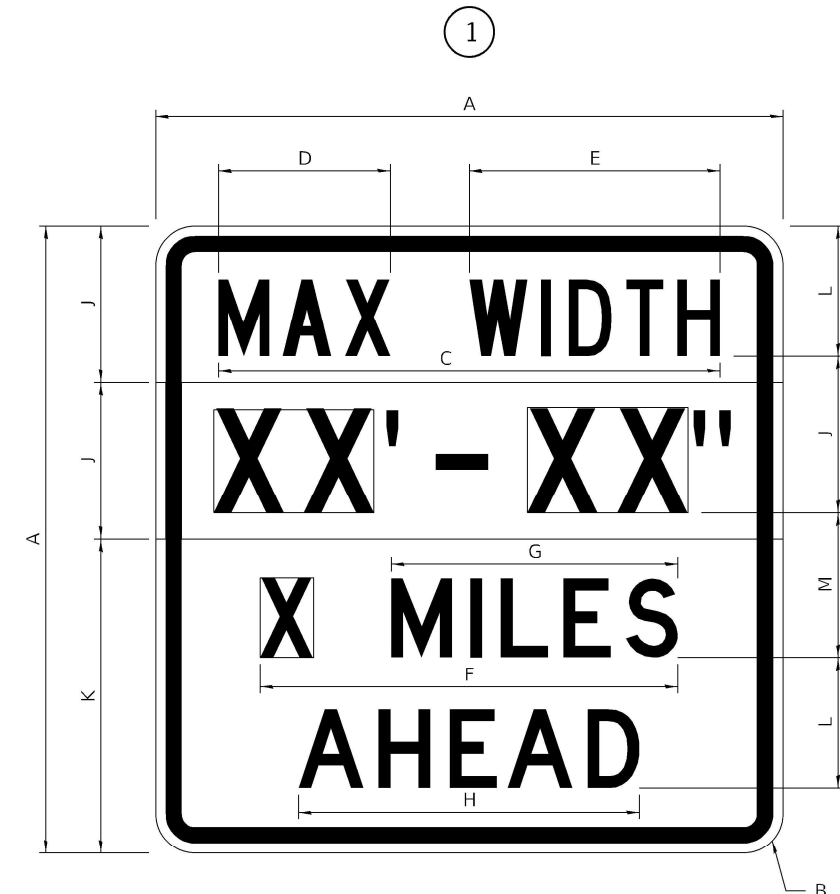
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	DATE -	REVISED -

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

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Kaskaskia Engineering Group, P.C.
 PROFESSIONAL ENGINEERING
 1100 N. WASHINGTON ST., SUITE 200
 DECATUR, IL 62521
 TEL: 618.281.1100 FAX: 618.281.1101
 WWW.KASKASKIAENGINEERING.COM

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	DATE -	REVISED -

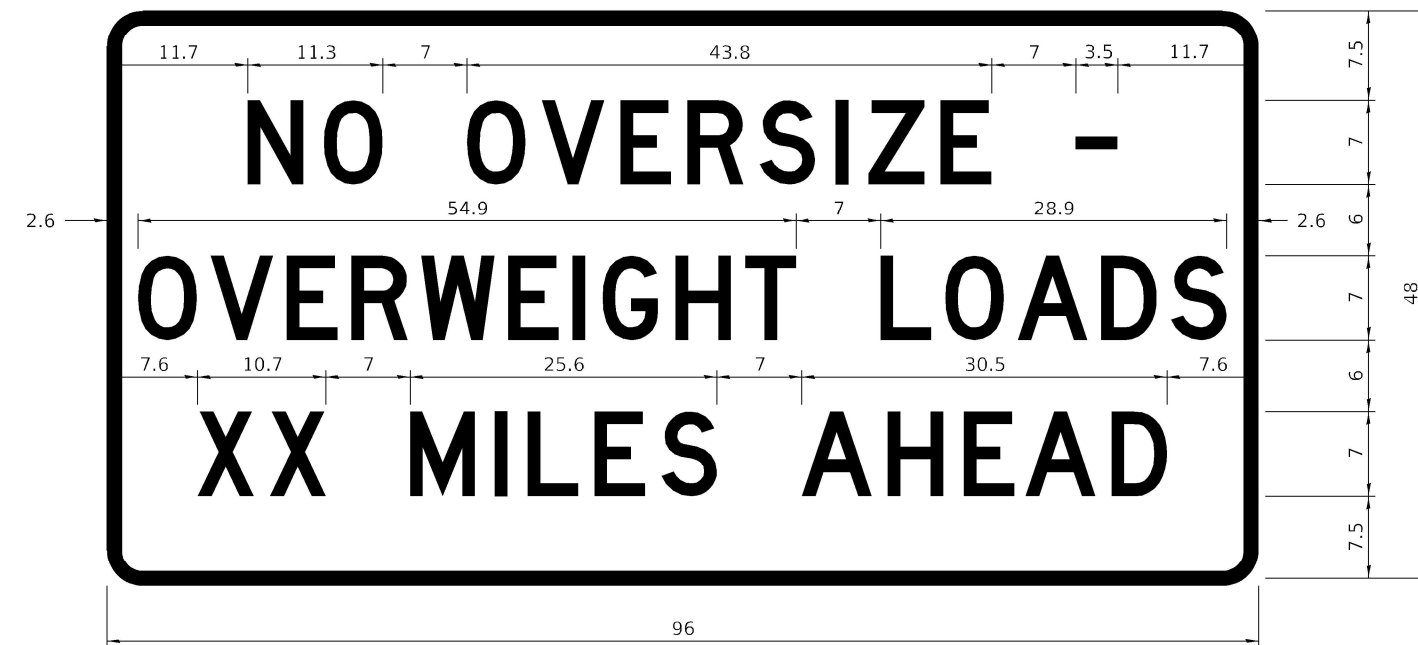
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD
 IL 84 OVER RUSH CREEK**

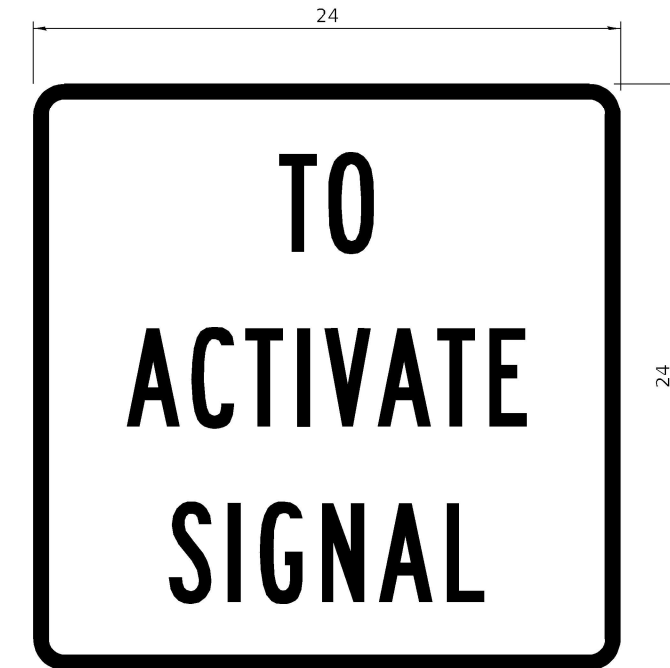
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CONTRACT NO. 64R51			ILLINOIS FED. AID PROJECT	

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD
IL 84 OVER RUSH CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

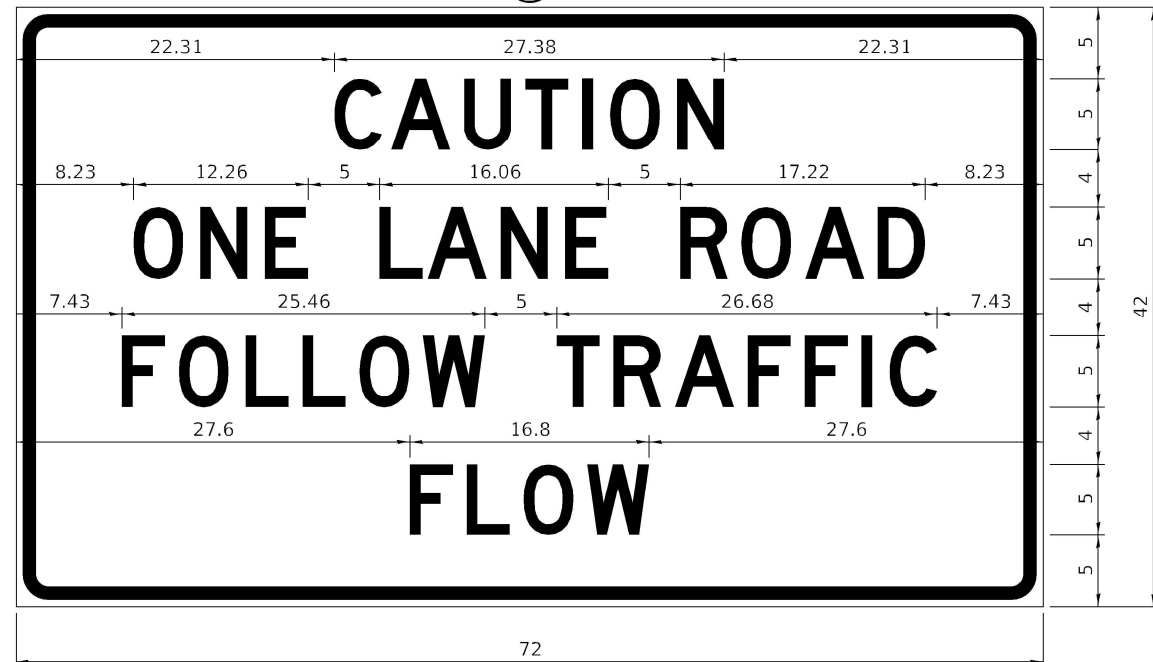
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	32
			CONTRACT NO. 64R51	

ILLINOIS FED. AID PROJECT

Long Section Number

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

2



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	0.62	A	0.94	U	0.94	T	0.94	I	1.17	O	1.17	N	3.36	22.31
	3.36		4.18		3.36		3.04		0.78		3.52		3.36		

8.23	O	1.17	N	3.36	1.18	E	3.04
	3.51		3.36		1.18	3.04	

5.00	L	0.31	A	0.94	N	3.36	1.17	E	3.05
	3.05		4.18		3.36		1.17	3.05	

5.00	R	0.93	O	0.94	A	0.93	D	3.36	8.23
	3.36		3.52		4.18		3.36		

7.43	F	0.94	O	1.17	L	0.94	L	0.94	O	3.51	0.94	W	4.37
	3.04		3.52		3.04		3.05		3.51		0.94	4.37	

5.00	T	0.94	R	0.94	A	0.93	F	0.94	F	0.94	I	1.18	C	3.35	7.43
	3.05		3.36		4.18		3.05		3.04		0.78	1.18	3.35		

27.60	F	0.94	L	0.94	O	0.93	W	4.38	27.60
	3.05		3.04		3.52		4.38		

Sign not to scale

WORK ZONE SIGN DETAILS

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD
IL 84 OVER RUSH CREEK**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	33
			CONTRACT NO. 64R51	

SCALE: SHEET OF SHEETS STA. TO STA.

Long Section Number

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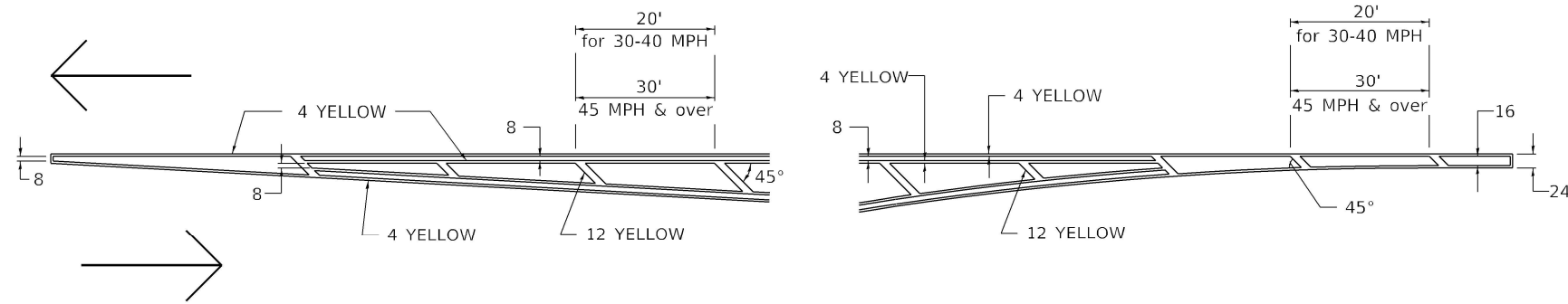
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DRAWN -
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REVISIED -
REVISIED -
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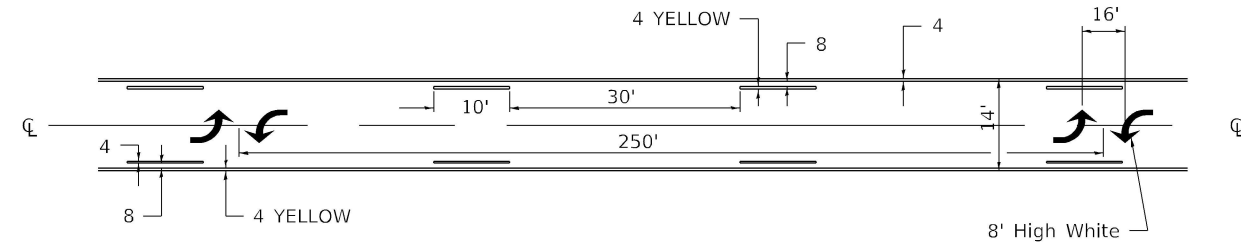
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REVISIED -
REVISIED -
REVISIED -

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

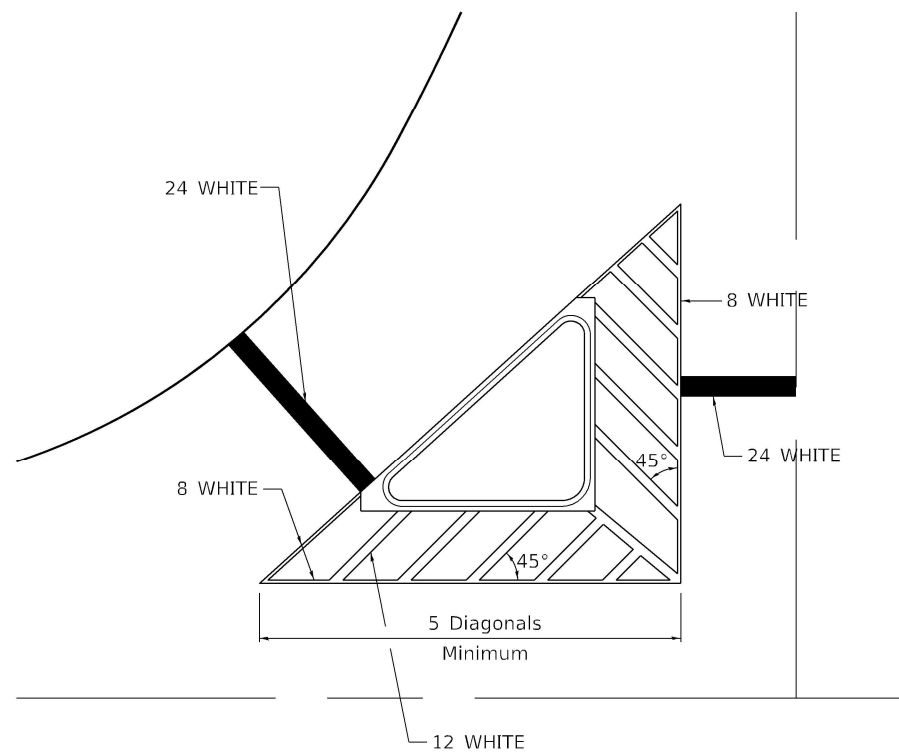


MEDIAN PAVEMENT MARKING



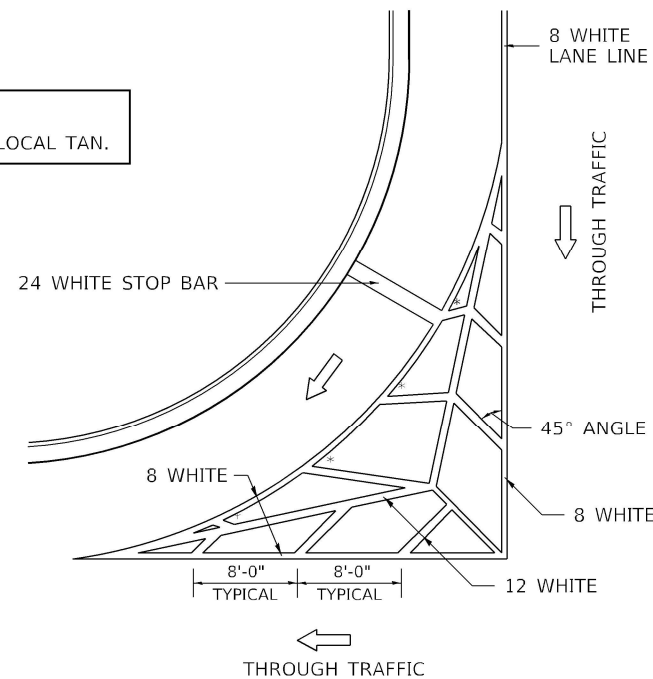
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



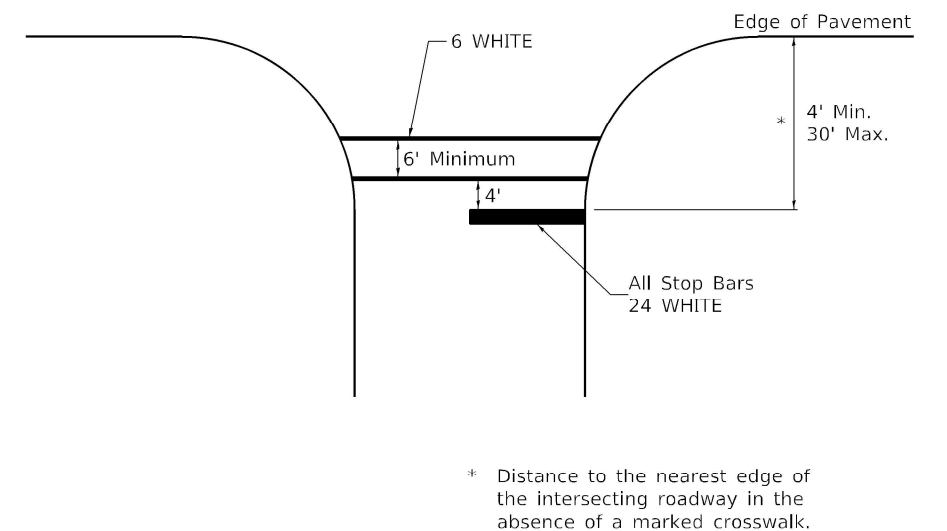
TYPICAL MARKING FOR PAINTED ISLANDS

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.

MODEL: Default
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Kaskaskia
Engineering Group, T.L.C.
Professional Engineering Group

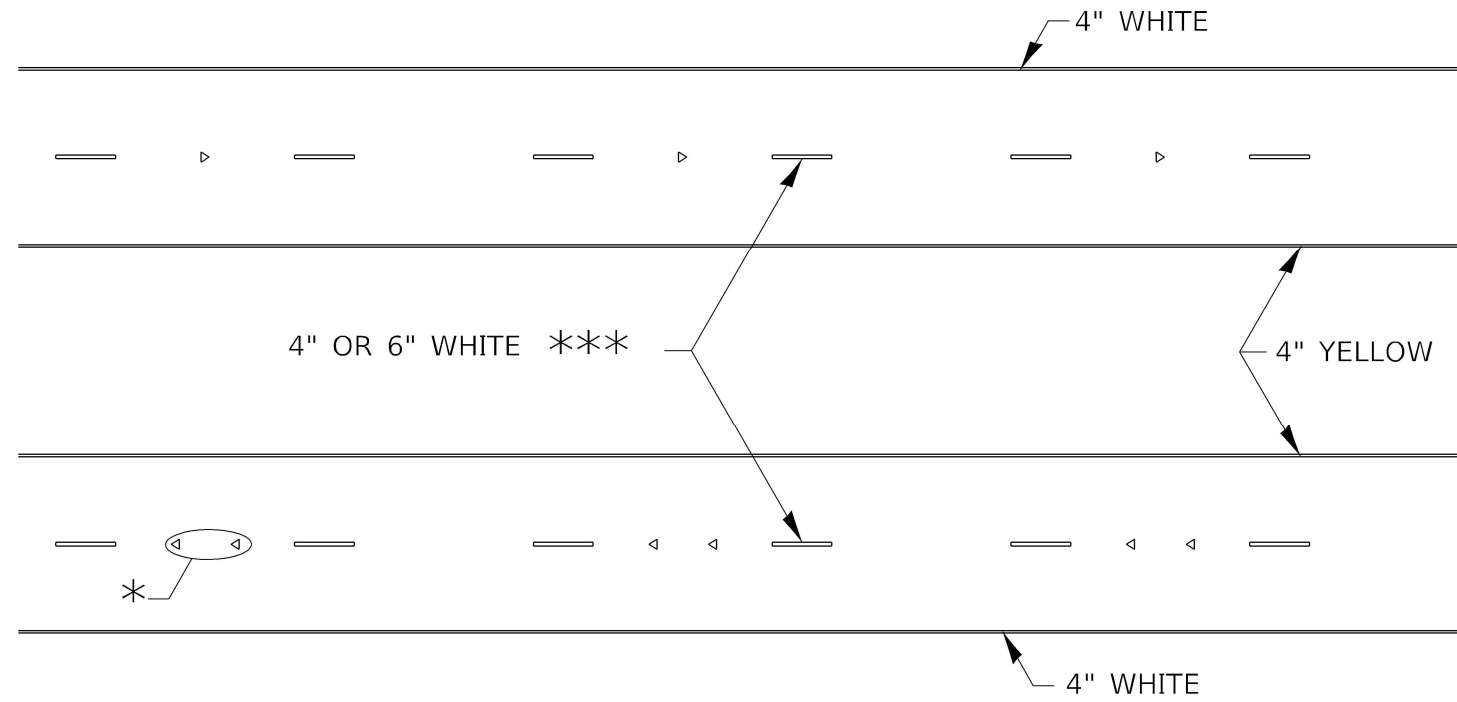
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PLOT DATE = 8/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD
IL 84 OVER RUSH CREEK

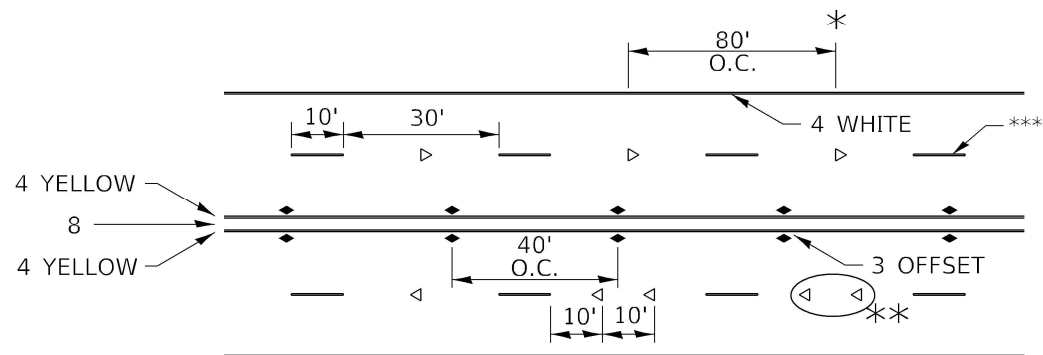
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 64R51	

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



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

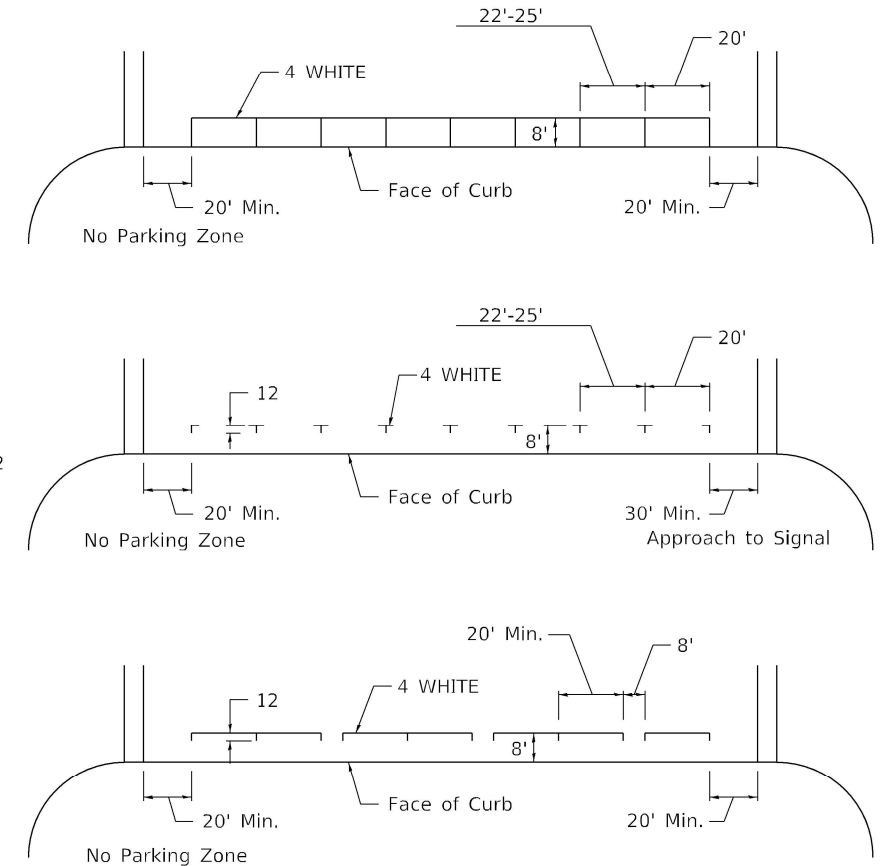
** USE DOUBLE MARKERS WHEN ADT \geq 20,000

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

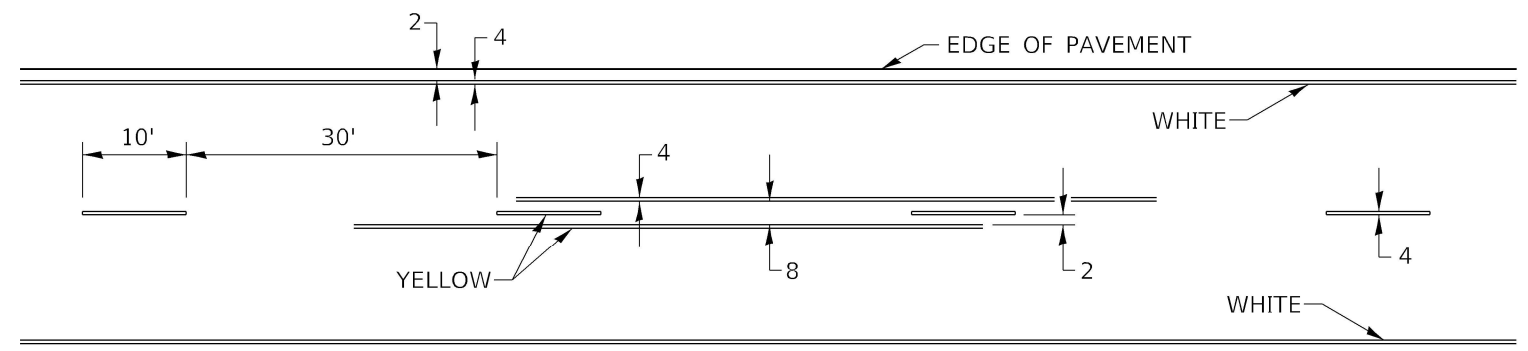
MULTI-LANE / UNDIVIDED & ONE WAY

(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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD
IL 84 OVER RUSH CREEK

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
308	(104-BY-R)BDR	CARROLL	36	36
CONTRACT NO. 64R51				

SCALE: SHEET OF SHEETS STA. TO STA.