

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

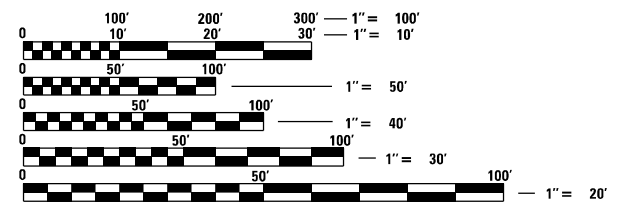
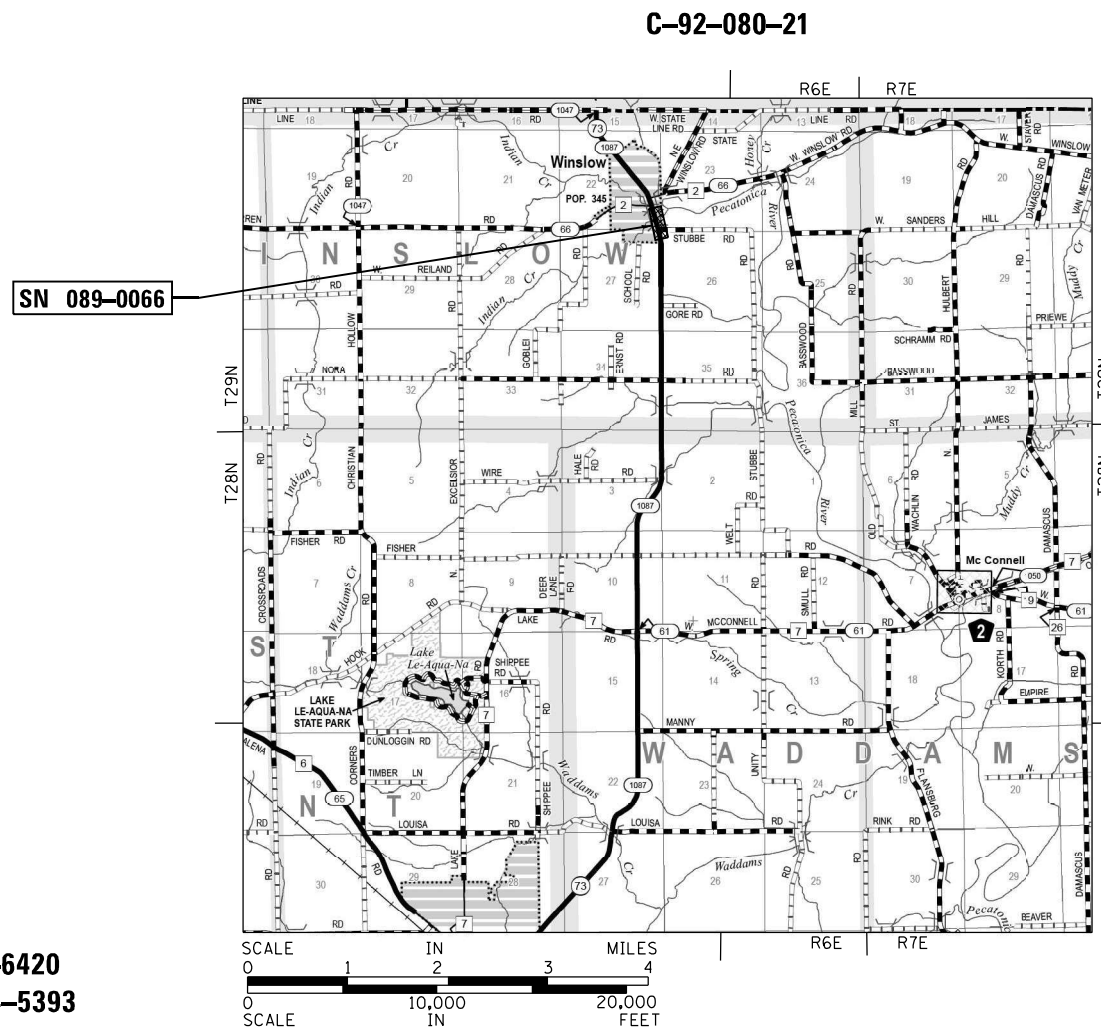
FAS ROUTE 1087 (IL 73)
SECTION (106BR-2)BDR
PROJECT HBFP-8B9G(260)
TYPE of IMPROVEMENT: BRIDGE REPAIR
SN 089-0066 OVER THE CEDAR CREEK
STEPHENSON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	1
		ILLINOIS	CONTRACT NO. 64R13	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2



WINSLOW TOWNSHIP
T29N R6E, SECTION 22



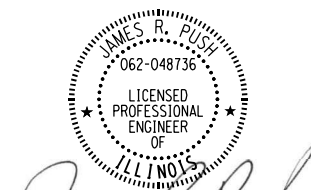
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JAMES R. PUSH, PE (630) 930-6420
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64R13

GROSS LENGTH = 219.83 FT. = 0.042 MILE
NET LENGTH = 219.83 FT. = 0.042 MILE



James R. Push
JAMES R. PUSH, P.E.
LICENSE NO.: 062-048736
EXPIRES: NOVEMBER 30, 2023
DATE: 05/06/2022

QUANDEL
CONSULTANTS
161 NORTH CLARK STREET
SUITE 2975
CHICAGO, IL 60601
312-634-6201
DESIGN FIRM - PROF/STRUCT ENGINEER
IL LIC. 184.005283-0006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 05/09 20 22

James R. Push
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 1, 2022 *James R. Push*
ENGINEER OF DESIGN AND ENVIRONMENT

July 1, 2022 *Stephen M. Spauld*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

ALL BORROW/WASTE/USE 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 SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE ARE REQUIRED FROM THE REGULATORY AGENCIES IF THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM. ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO USE ALTERNATE/MODIFIED CONSTRUCTION METHOD(S), THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS, WORKING DAYS CHARGED OR CALENDAR DAYS EXPIRED DUE TO THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE THE NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.

ALL ELEVATIONS SHOWN IN PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

IDOT DISTRICT 2 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-284-2271 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA CONC SURF CSE
PG:	PG 64 -22
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	MIX "C"
QUALITY MANAGEMENT PROGRAM:	QC / QA
SUBLOT SIZE:	N / A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:
 BITUMINOUS MATERIALS (TACK COAT) 0.05 LBS / SQ FT (ON PAVEMENT)
 BITUMINOUS MATERIALS (TACK COAT) 0.025 LBS / SQ FT (FOG)
 HOT-MIX ASPHALT MATERIAL 0.056 TON / SQ YD PER 1"
 AGGREGATE MATERIAL 1.60 TONS / CU YD

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- 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.
- CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.

- THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT.
- EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

MICROSILICA CONCRETE SHALL INCLUDE MACRO-SIZE, TYPE III, SYNTHETIC FIBERS MEETING THE 'BRIDGE DECK MICROSILICA CONCRETE OVERLAY' SPECIAL PROVISION.

INDEX OF SHEETS

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2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
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21	GUARDRAIL REFLECTORS, TYPE C (SPECIAL) (DISTRICT STD 55.1)

STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	2
CONTRACT NO. 64R13				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
BRIDGE 0047
80% FED / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 089-0066 STEPHENSON COUNTY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	180	180
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	356	356
40600990	TEMPORARY RAMP	SQ YD	54	54
40604050	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	22	22
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	43	43
42001300	PROTECTIVE COAT	SQ YD	383	383
44000100	PAVEMENT REMOVAL	SQ YD	43	43
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	422	422
59000200	EPOXY CRACK INJECTION	FOOT	57	57
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	63	63
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	413	413
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	224	224
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L SUM	1	1

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	3
CONTRACT NO. 64R13			ILLINOIS FED. AID PROJECT	

REV. 6/21/22 REV. 6/8/22

CONSTRUCTION CODE
BRIDGE 0047
80% FED / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 089-0066 STEPHENSON COUNTY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	972	972
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	405	405
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2,698	2,698
70307160	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	FOOT	48	48
70400100	TEMPORARY CONCRETE BARRIER	FOOT	538	538
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	500	500
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	835	835
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8
78112000	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1

* DENOTES SPECIALTY ITEM

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
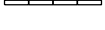


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

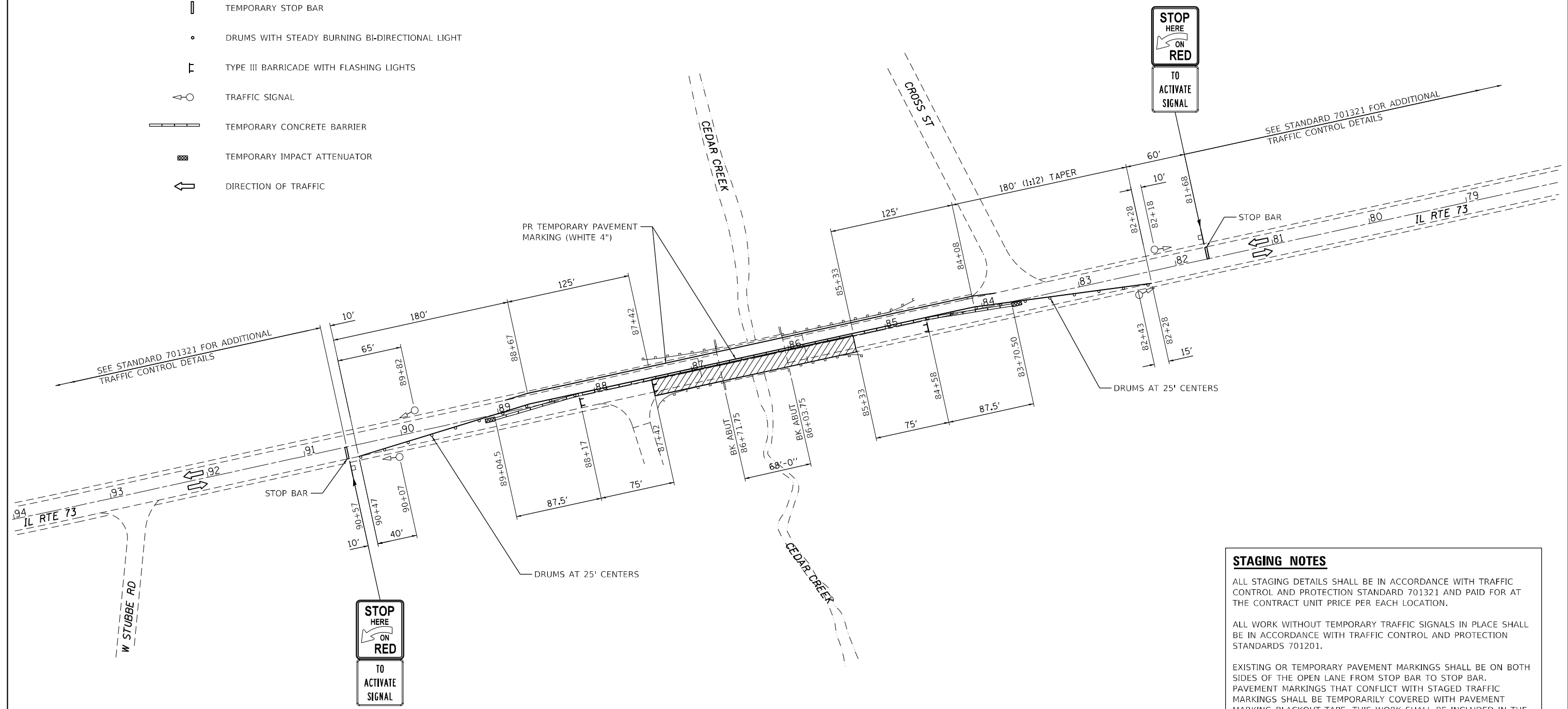
SUMMARY OF QUANTITIES

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	4
			CONTRACT NO. 64R13	
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  SIGN
-  TEMPORARY STOP BAR
-  DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  DIRECTION OF TRAFFIC



STAGING NOTES

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY TRAFFIC SIGNALS IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701201.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE TEMPORARILY COVERED WITH PAVEMENT MARKING BLACKOUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

TYPE C REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25-FOOT CENTERS WHICH WILL BE MEASURED AND PAID FOR AS BARRIER WALL REFLECTORS, TYPE C, AND GUARDRAIL REFLECTORS, TYPE C (SPECIAL).

ADDITIONAL SIGNAGE SHOWN ON THE TRAFFIC CONTROL SHEETS WHICH ARE NOT PART OF HIGHWAY STANDARD 701321 SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.



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



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

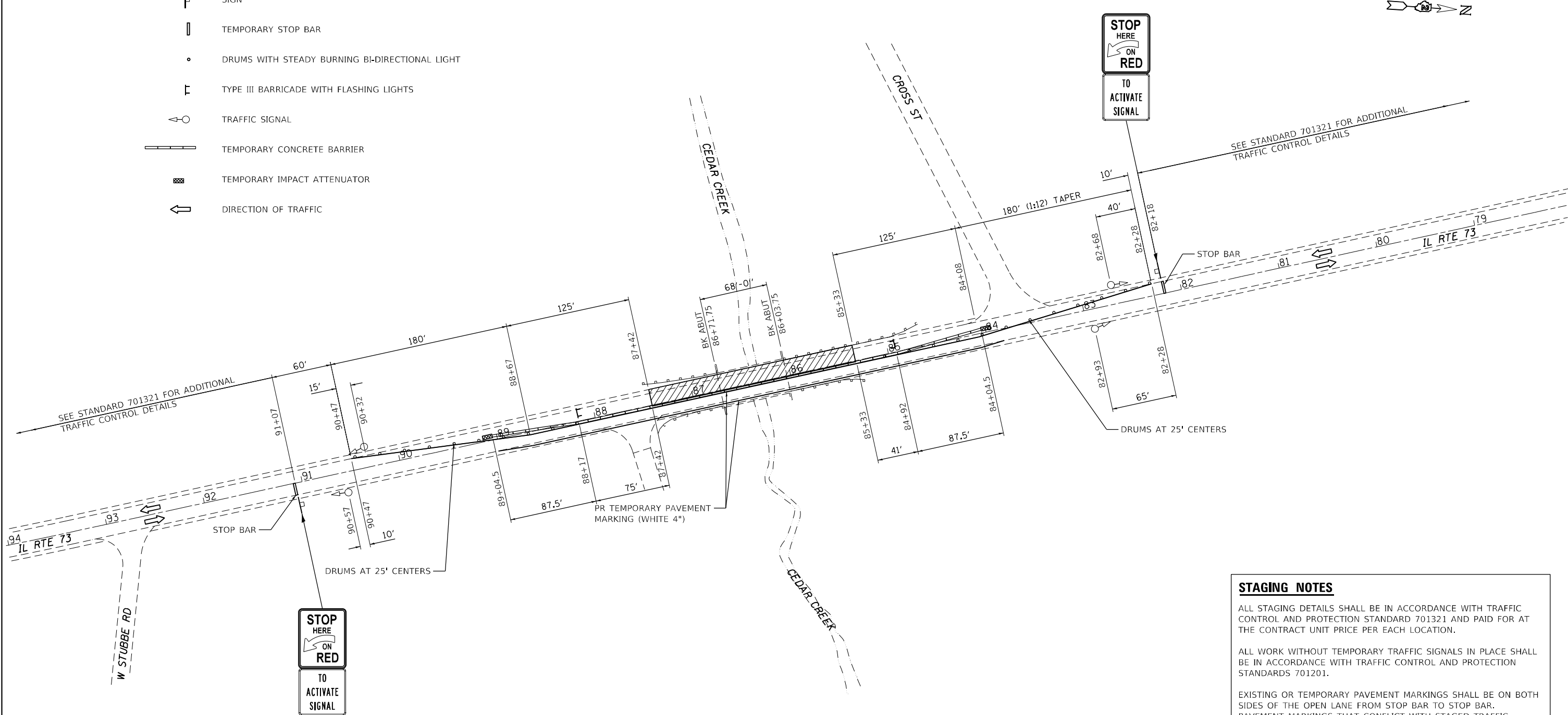
**TRAFFIC CONTROL PLAN STAGE 1
CEDAR CREEK SN 089-0066**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	6
CONTRACT NO. 64R13				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  SIGN
-  TEMPORARY STOP BAR
-  DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  DIRECTION OF TRAFFIC



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ADDITIONAL SIGNAGE SHOWN ON THE TRAFFIC CONTROL SHEETS WHICH ARE NOT PART OF HIGHWAY STANDARD 701321 SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN STAGE 2
CEDAR CREEK SN 089-0066**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	7
				CONTRACT NO. 64R13
ILLINOIS FED. AID PROJECT				

Existing Structure S.N. 089-0046 built in 1990. Single Span Steel-I Beam R.C. Deck.
Total width out to out = 35'-2". Total length bk. to bk. abut. = 68'-0". R.C. Abuts. .

Traffic to be maintained during Stage Construction.

INDEX OF SHEETS

1. General Plan & Elevation
2. Cross Section
3. Wearing Surface Plan
4. Deck Slab and Approach Slab Repair Plan
5. Temporary Barrier

SCOPE OF WORK:

1. Complete bridge scarification, 3/4".
2. Complete full-depth deck patching.
3. Complete approach slab repair.
4. Complete epoxy crack injection repair
5. Place bridge deck microsilica concrete overlay, 2 1/2".
6. Complete diamond grinding 1/4" and bridge deck grooving (longitudinal).

GENERAL NOTES

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.

The Contractor shall use extreme care during concrete removal so as not to damage the Steel I-beam.

Protective coat shall be applied to the top of the new overlay and approach slab.

Microsilica Concrete shall include macro-size, Type III, synthetic fibers; meeting Note 7 in the Bridge Deck Microsilica Concrete Overlay Special Provision.

Areas of repairs shown are estimated. The Engineer shall show actual locations of the repairs on AS-BUILT PLANS.

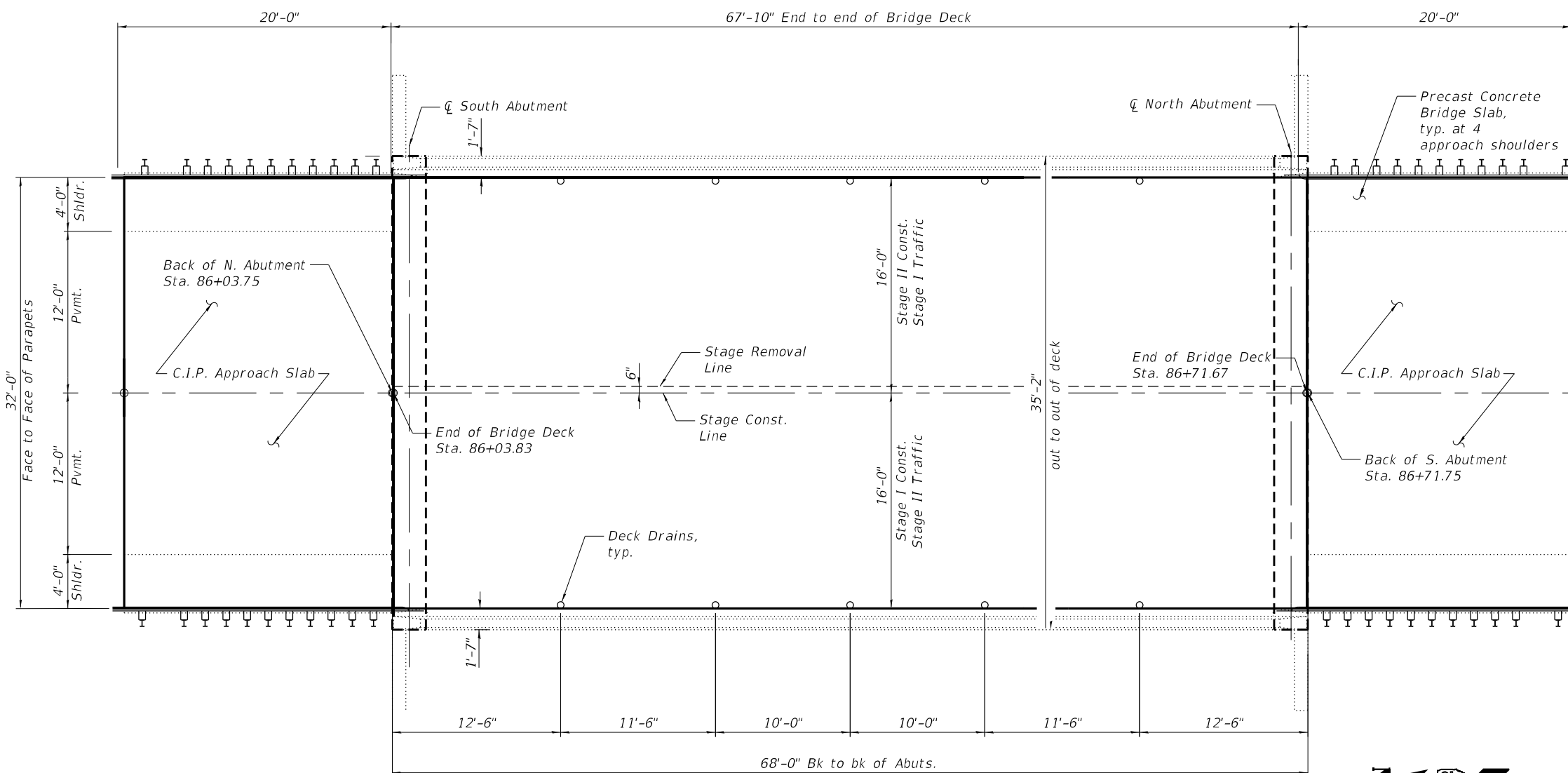
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Deck Slab Repair.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Scarification 3/4"	Sq. Yd.	383
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Epoxy Crack Injection	Foot	57
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	383
Diamond Grinding (Bridge Section)	Sq. Yd.	335
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	288
Protective Coat	Sq. Yd.	383
HMA Surface Removal - Butt Joint	Sq. Yd.	356
Pavement Removal	Sq. Yd.	43
HMA Surface Course, 1L 9.5 Mix "C" N50	Ton	22
Pavement Connector (HMA)	Sq. Yd.	43
Guardrail Removal	Foot	413
Traffic Barrier Terminal, Type 6	Each	4

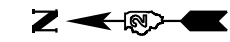


ELEVATION
(Looking East)



PLAN

STATE OF ILLINOIS
LICENSED STRUCTURAL ENGINEER
081-005605
JEFFREY P. BUCHOLC, S.E.
LICENSE NO.: 081-005605
EXPIRES: NOVEMBER 30, 2022
05/06/2022



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Prairie Engineers, P.C.
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Washington, IL 61571
(217) 605-0403
www.prairieengineers.com
Professional Design Firm No. 1644-005605
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PLOT DATE =	5/6/2022	CHECKED -	JRT	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
S.N. 089-0066**

SHEET 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	8
CONTRACT NO. 64R13				
		ILLINOIS	FED. AID PROJECT	

Existing Structure S.N. 089-0046 built in 1990. Single Span Steel-I Beam R.C. Deck.
Total width out to out = 35'-2". Total length bk. to bk. abut. = 68'-0". R.C. Abuts. .

Traffic to be maintained during Stage Construction.

INDEX OF SHEETS

1. General Plan & Elevation
2. Cross Section
3. Wearing Surface Plan
4. Deck Slab and Approach Slab Repair Plan
5. Temporary Barrier

SCOPE OF WORK:

1. Complete bridge scarification, 3/4".
2. Complete full-depth deck patching.
3. Complete approach slab repair.
4. Complete epoxy crack injection repair
5. Place bridge deck microsilica concrete overlay, 2 1/2".
6. Complete diamond grinding 1/4" and bridge deck grooving (longitudinal).

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall use extreme care during concrete removal so as not to damage the Steel I-beam.

Protective coat shall be applied to the top of the new overlay and approach slab.

Microsilica Concrete shall include macro-size, Type III, synthetic fibers; meeting Note 7 in the Bridge Deck Microsilica Concrete Overlay Special Provision.

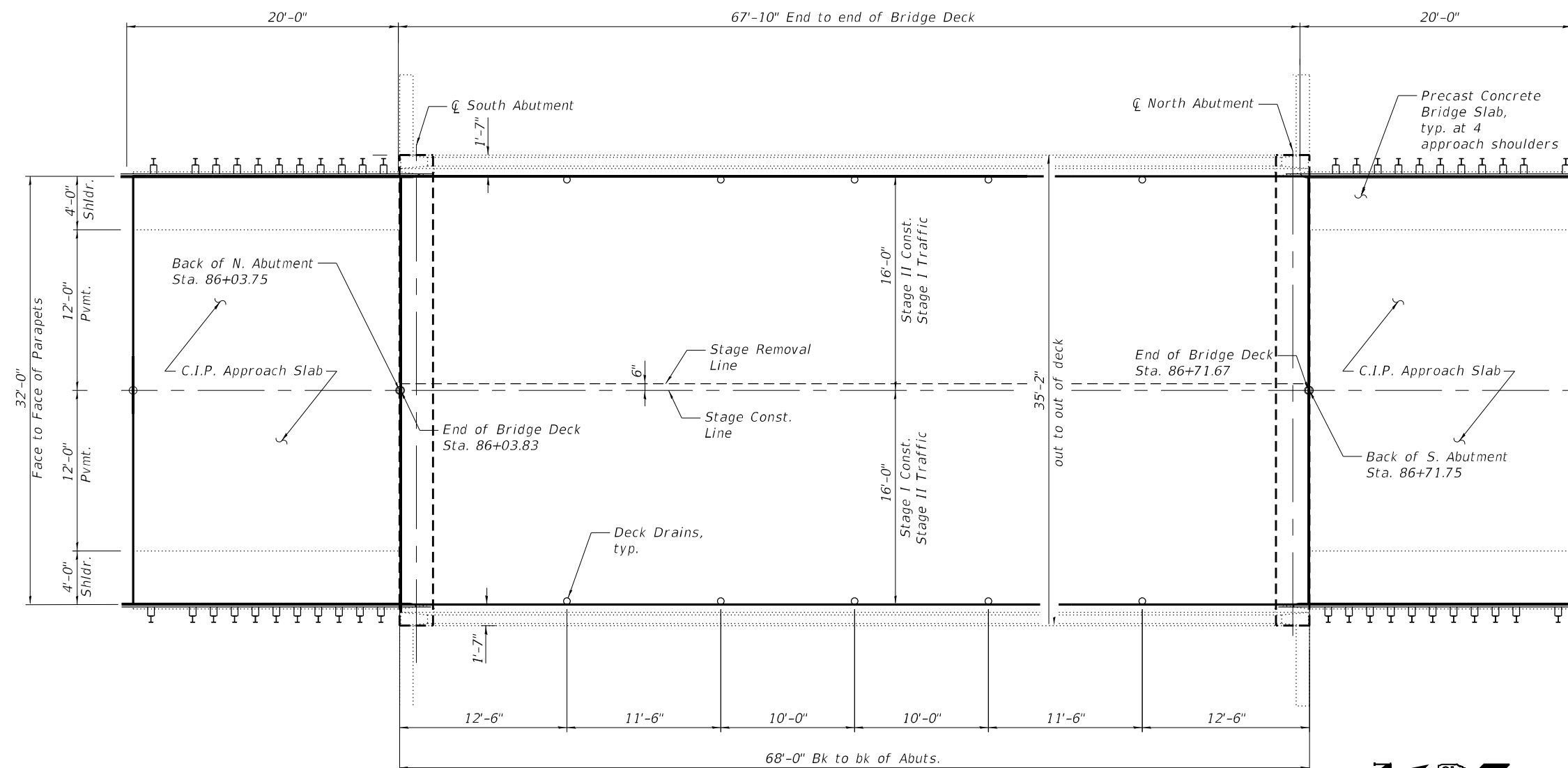
Areas of repairs shown are estimated. The Engineer shall show actual locations of the repairs on AS-BUILT PLANS.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Deck Slab Repair.



ELEVATION
(Looking East)

05/06/2022
 JEFFREY P. BUCHOLC, S.E.
 LICENSE NO.: 081-005605
 EXPIRES: NOVEMBER 30, 2022



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Scarification 3/4"	Sq. Yd.	383
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Epoxy Crack Injection	Foot	57
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	383
Diamond Grinding (Bridge Section)	Sq. Yd.	335
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	288
Protective Coat	Sq. Yd.	383
HMA Surface Removal - Butt Joint	Sq. Yd.	356
Pavement Removal	Sq. Yd.	43
HMA Surface Course, 1L 9.5 Mix "C" N50	Ton	22
Pavement Connector (HMA)	Sq. Yd.	43
Guardrail Removal	Foot	413
Traffic Barrier Terminal, Type 6	Each	4

MODEL: 2D Sheet H
 FILE NAME: C:\Users\jippett\OneDrive - OENOC\Documents\Projects\112_IDOT_D2_Var-Var_Bridge\400-Work\Work Order 41410 - CADD\64R13_089-0066\0890066-64R13-001-GPE.dgn

Prairie Engineers, P.C.
 22484 Grossbach Road
 Washington, IL 61571
 (217) 605-0403
 www.prairieengineers.com
 PROFESSIONAL DESIGN FIRMS NO. 1644-005605
 ENGINEERS SURVEYORS SCIENTISTS
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USER NAME =	jippett	DESIGNED -	JRT	REVISED -	
CHECKED -	JPB	REVISIONS -			
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PLOT DATE =	5/6/2022	CHECKED -	JRT	REVISED -	

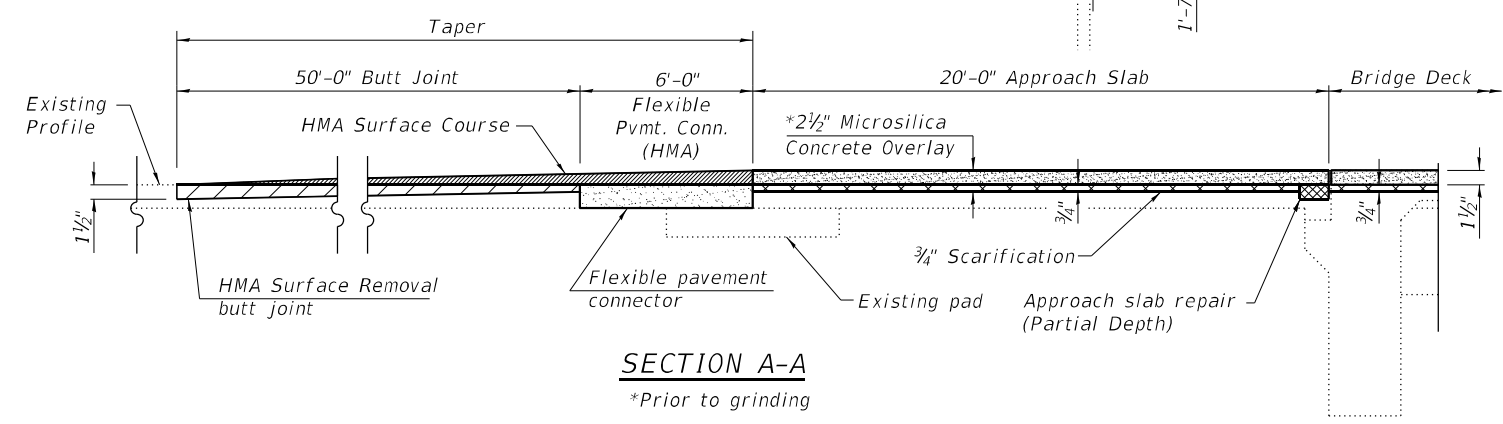
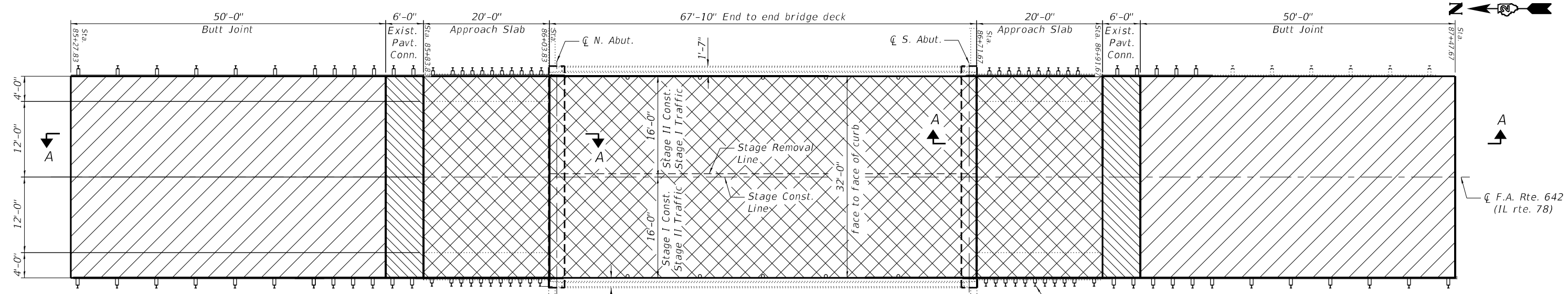
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 089-0066

SHEET 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	9
CONTRACT NO. 64R13				
		ILLINOIS	FED. AID PROJECT	

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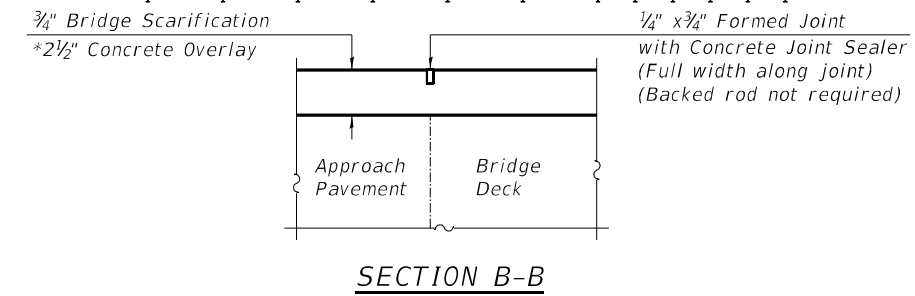
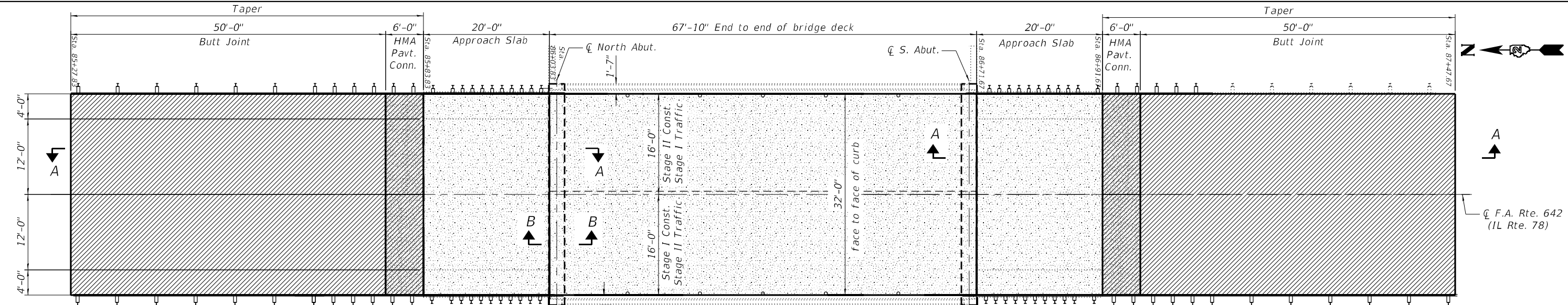


LEGEND

- HMA Surface Removal - Butt Joint
- Scarification 3/4"
- Pavement Removal

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Scarification 3/4"	Sq. Yd.	383
HMA Surface Removal - Butt Joint	Sq. Yd.	356
Pavement Removal	Sq. Yd.	43



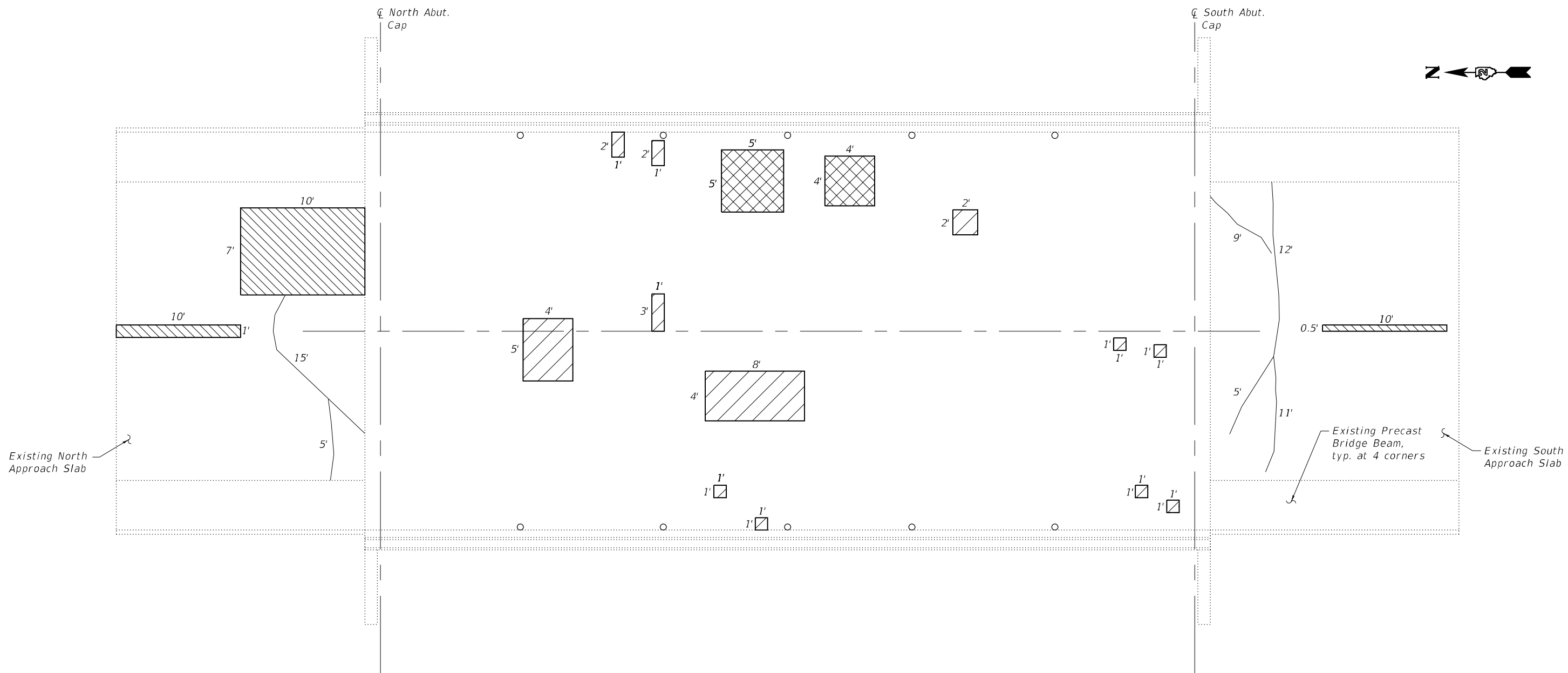
LEGEND

- HMA Surface Course
- 2 1/2" Bridge Deck Microsilica Concrete Overlay, Bridge Deck Grooving (Longitudinal), 1/4" Diamond Grinding (Bridge Section)
- HMA Pavt. Conn.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Surface Course, IL 9.5 Mix "C" N50	Ton	22
Bridge Deck Microsilica Conc. Ovly. 2 1/2"	Sq. Yd.	383
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	288
Diamond Grinding (Bridge Section)	Sq. Yd.	335
Pavement Connector (HMA)	Sq. Yd.	43
Protective Coat	Sq. Yd.	383
Traffic Barrier Terminal, Type 6	Each	4

MODEL: 2D Sheet H
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PLAN

LEGEND

- Deck Slab Repair (Full Depth Type II)
- Deck Slab Repair (Partial Depth) (For Information Only)
- Approach Slab (Partial Depth) -See Note
- Epoxy Crack Injection

Notes:
 Areas of deck slab repair shown are estimated. The Engineer shall show actual locations of the repairs on AS-BUILT PLANS.

Approach Slab Repair (Partial Depth) depth may vary, with a maximum depth of 7 inches.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Epoxy Crack Injection	Foot	57

Prairie Engineers, P.C.
 22484 Grossenbach Road
 Washington, IL 61571
 (217) 605-0403
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Professional Design Firm No. 1544-005955
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USER NAME =	jtipsett	DESIGNED -	JRT	REVISED -	
PLOT SCALE =	0.166666' / in.	CHECKED -	JPB	REVISED -	
PLOT DATE =	5/6/2022	DRAWN -	JLM	REVISED -	
		CHECKED -	JRT	REVISED -	

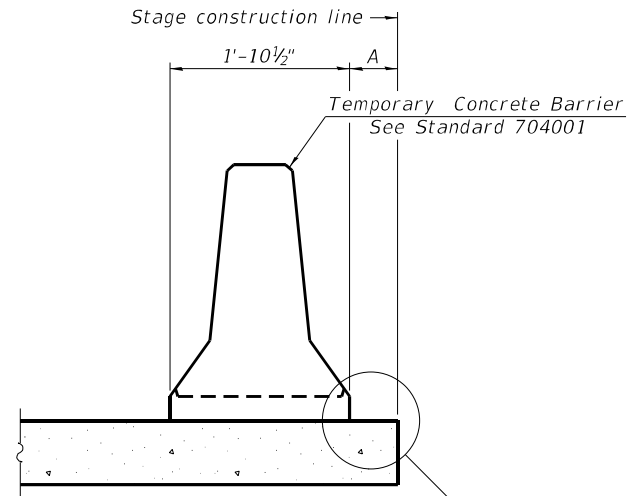
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK SLAB AND APPROACH SLAB REPAIR PLAN
 S.N. 089-0066**

SHEET 4 OF 4 SHEETS

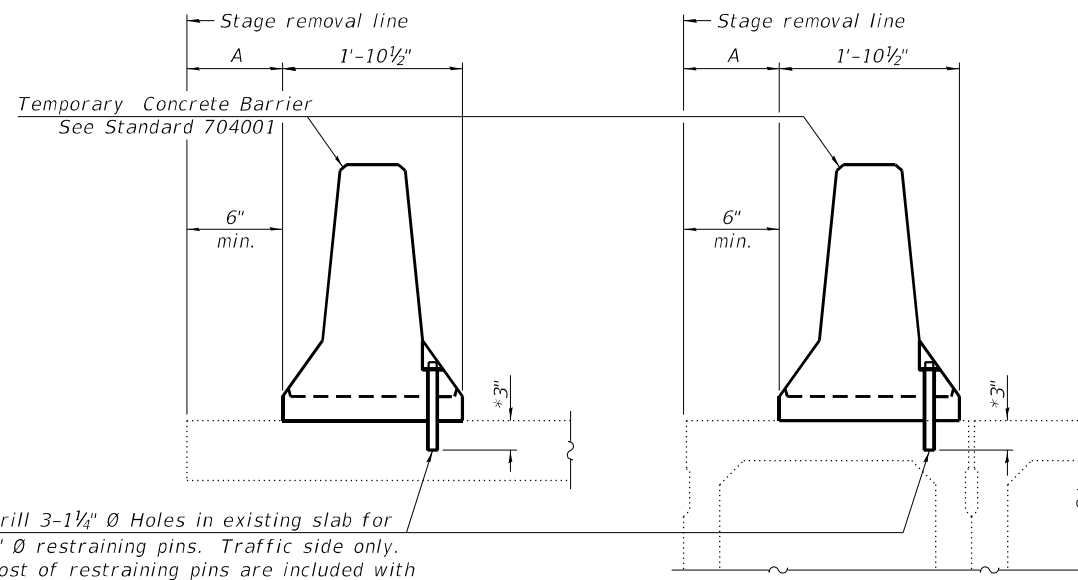
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	20	11
CONTRACT NO. 64R13				
ILLINOIS		FED. AID PROJECT		

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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



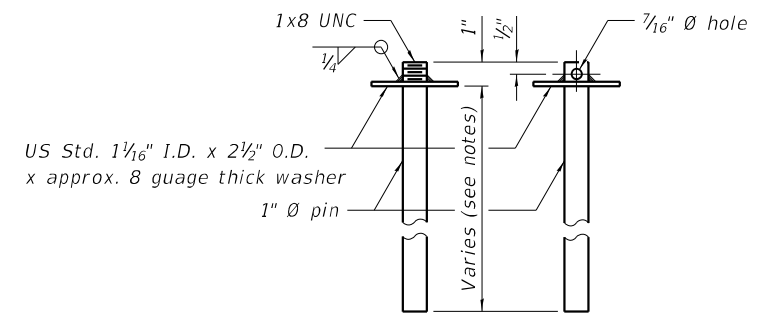
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

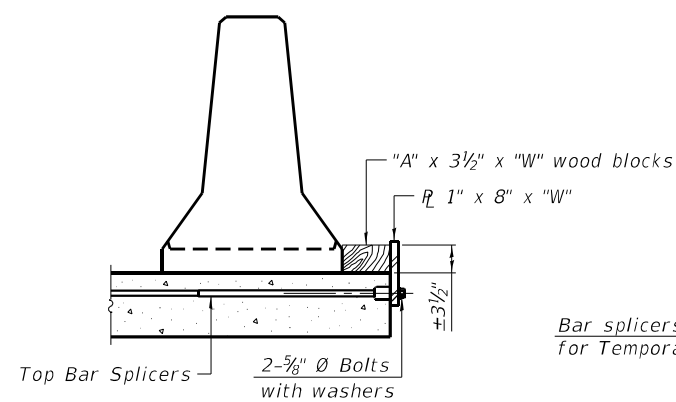
EXISTING DECK BEAM

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

SECTIONS THRU SLAB OR DECK BEAM

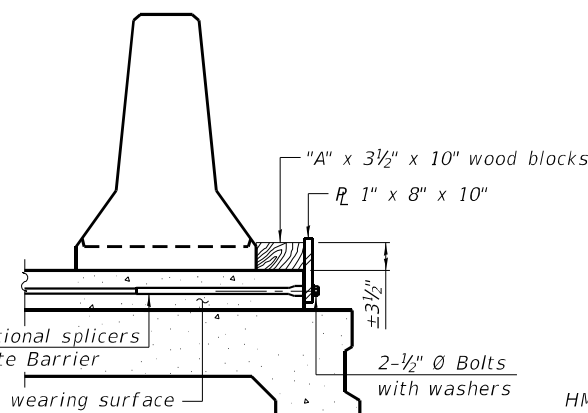


RESTRAINING PIN

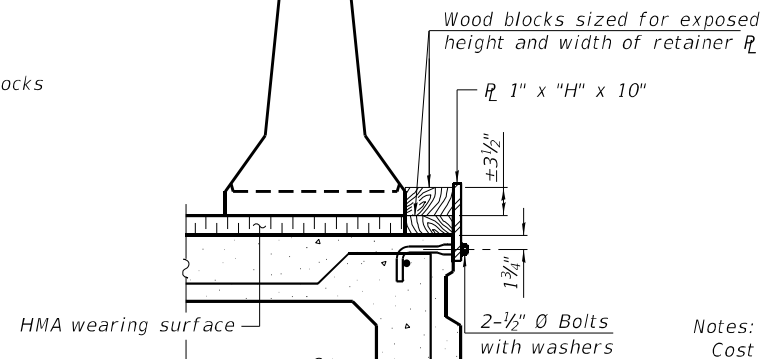


DETAIL I

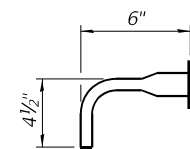
Bar splicers and additional splicers for Temporary Concrete Barrier



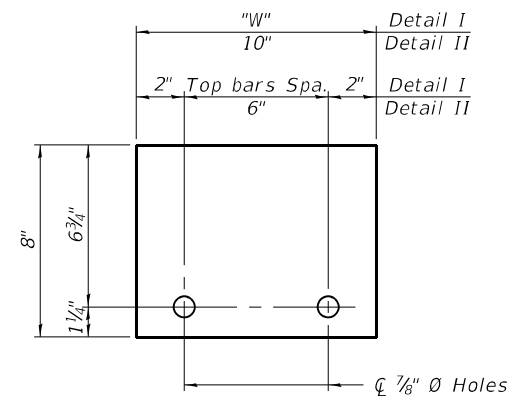
DETAIL II



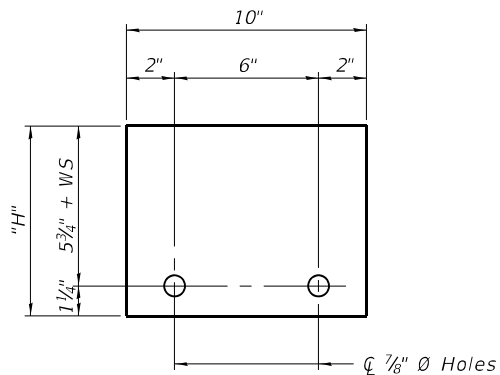
DETAIL III



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 center 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.

R-27 2-17-2017



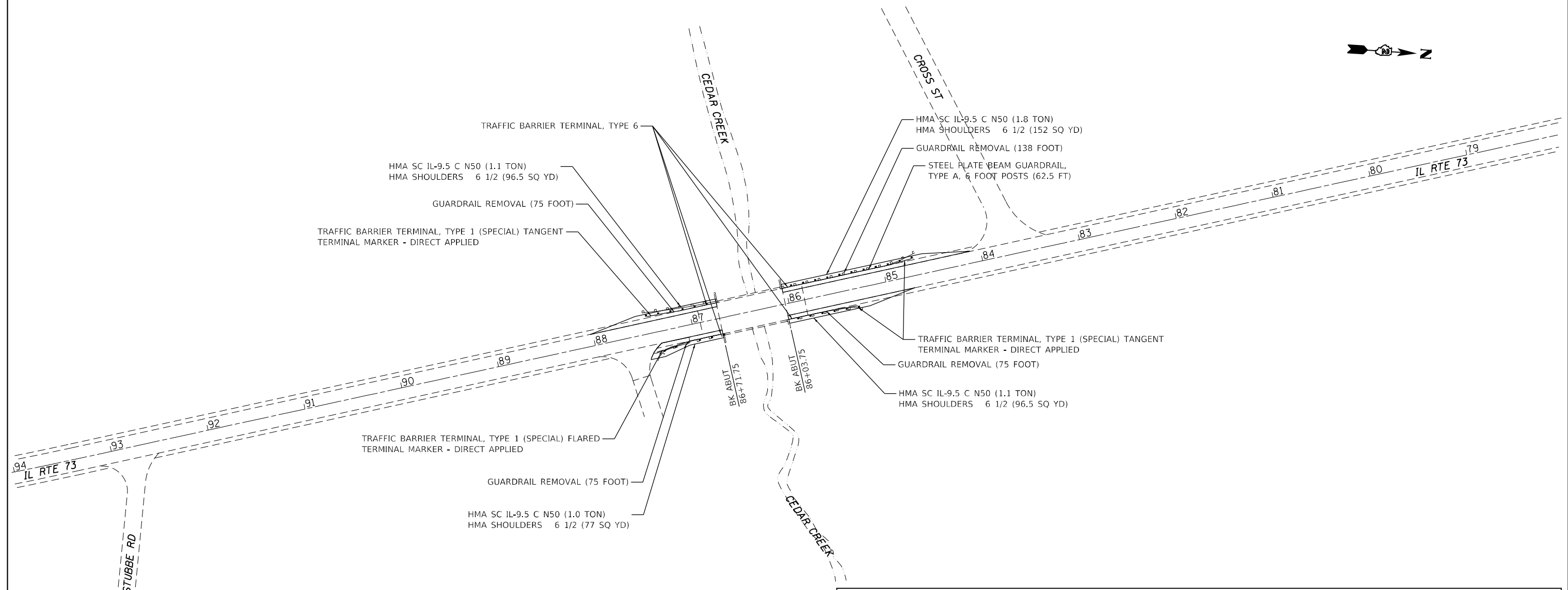
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN - JRT	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

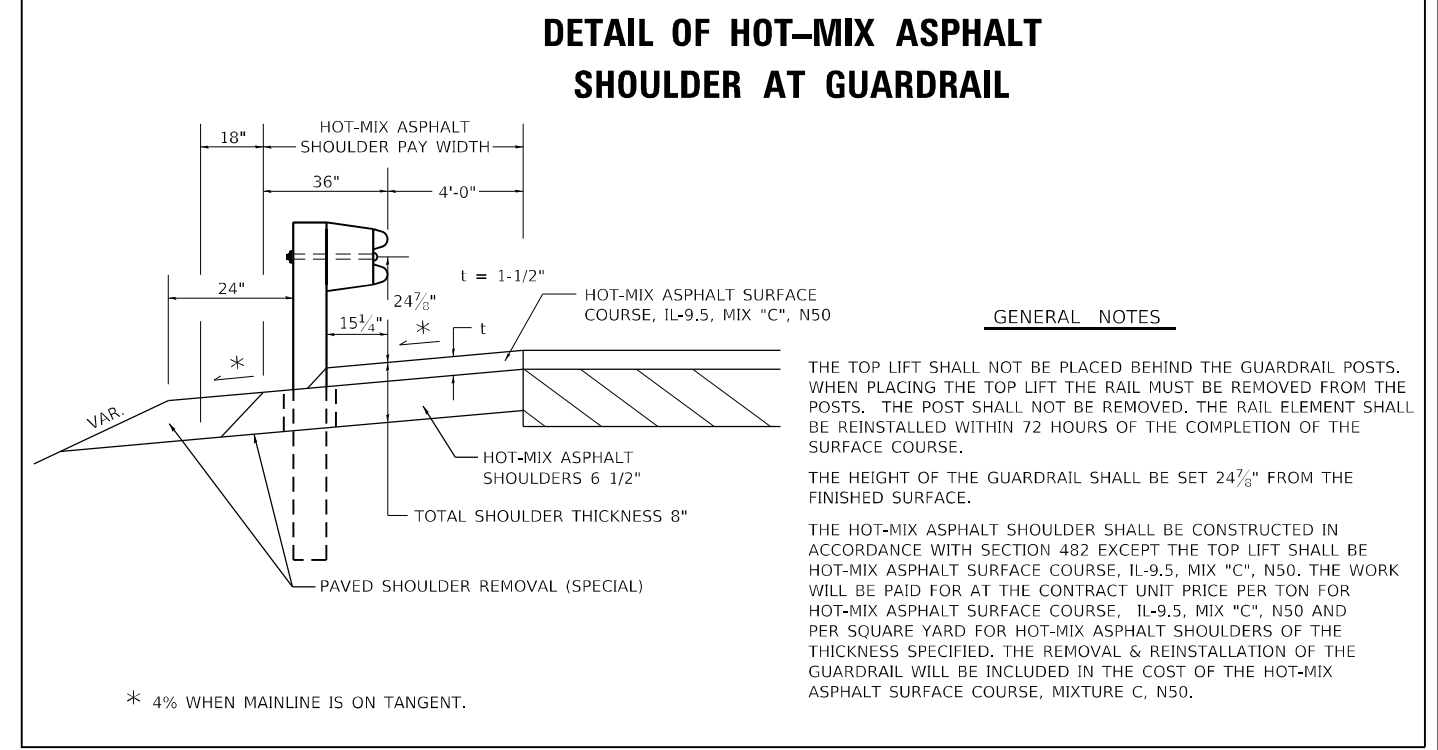
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 089-0066**

SHEET 5 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	12
CONTRACT NO. 64R13				
ILLINOIS FED. AID PROJECT				

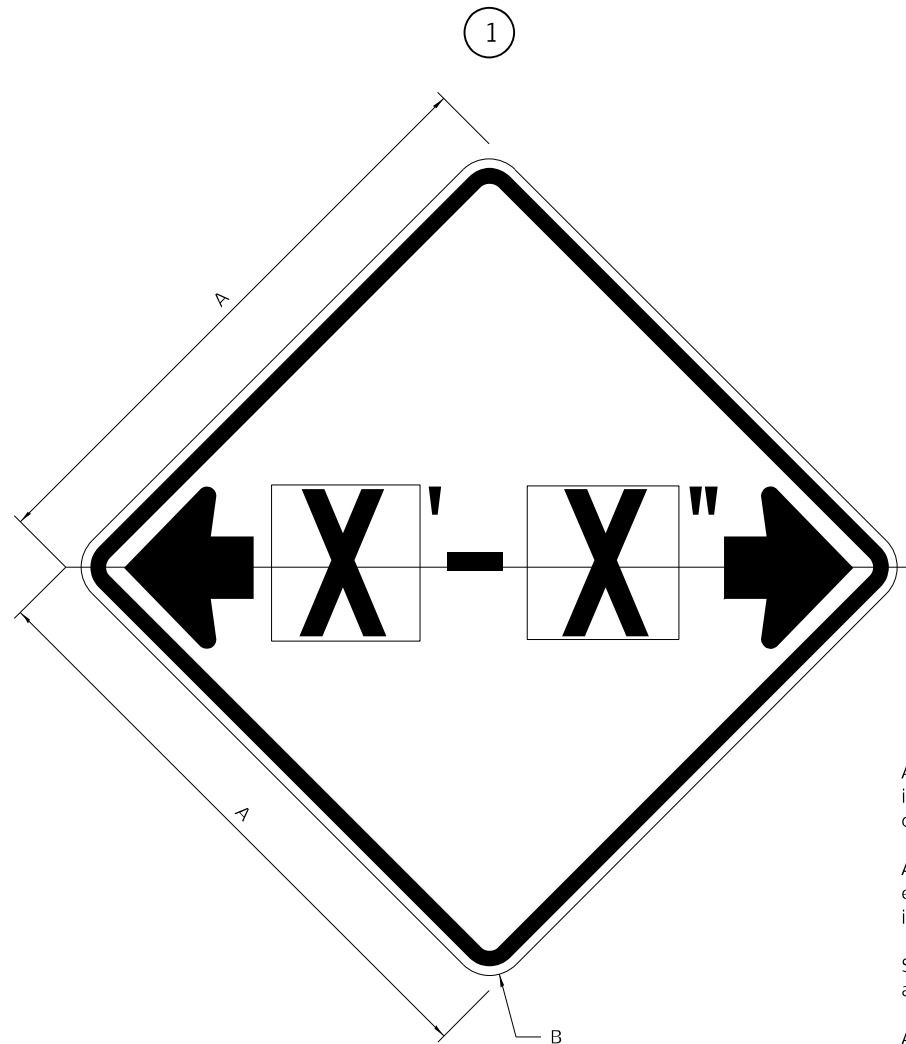


STA	STA	LOC	PAVED SHLD REMOVAL SP (X4404260)	SPBGR TY A 6FT POSTS (63000001)	TRAF BAR TERM T6 (63100085)	TR BAR TRM T1 SPL TAN (63100167)	TR BAR TRM T1 SPL FLR (63100169)	TERMINAL MARKER - DA (72501000)
STA	STA	LOC	SQ YD	FOOT	EACH	EACH	EACH	EACH
86+71.00	- 87+08.50	RT	25.00		1			1
87+08.50	- 87+46.00	RT	27.10			1		
87+46.00	- 88+04.00	RT	25.80					
86+71.00	- 87+08.50	LT	25.00		1			
87+08.50	- 87+46.00	LT	33.40				1	1
87+46.00	- 87+48.50	LT	2.90					
84+09.00	- 84+67.00	RT	35.50					
84+67.00	- 85+04.50	RT	27.10			1		1
85+04.50	- 85+67.00	RT	55.60	62.5				
85+67.00	- 86+04.50	RT	25.00		1			
84+71.50	- 85+29.50	LT	35.50					
85+29.50	- 85+67.00	LT	27.10			1		1
85+67.00	- 86+04.50	LT	25.00		1			



WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



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

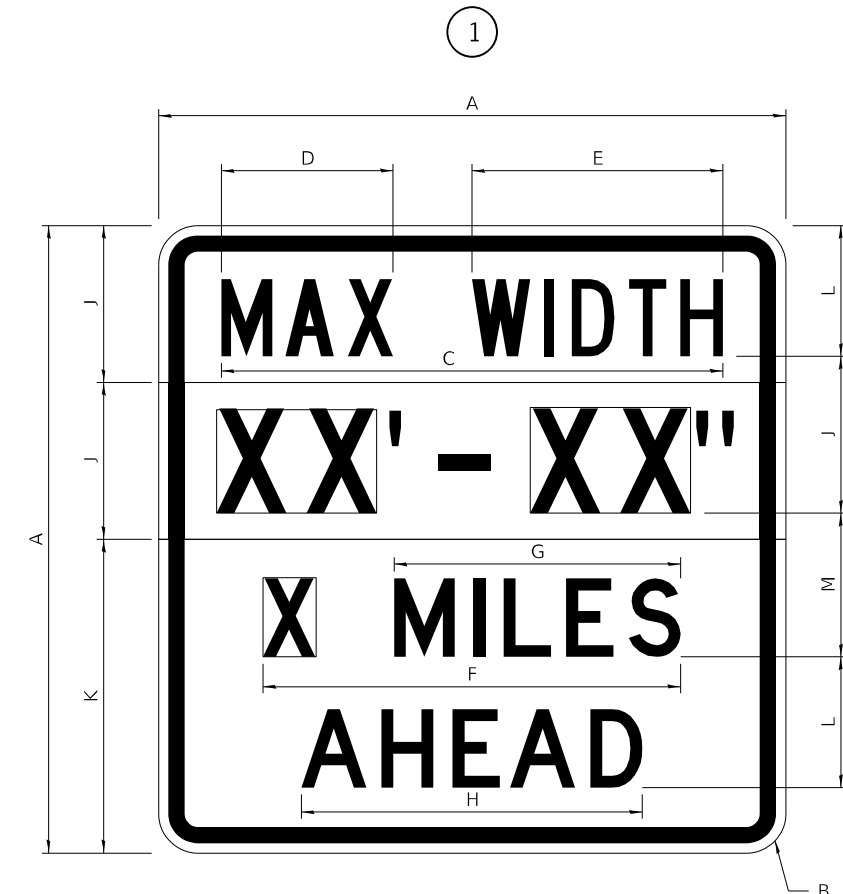
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

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

ILLINOIS STANDARD W12-I103



COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE 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

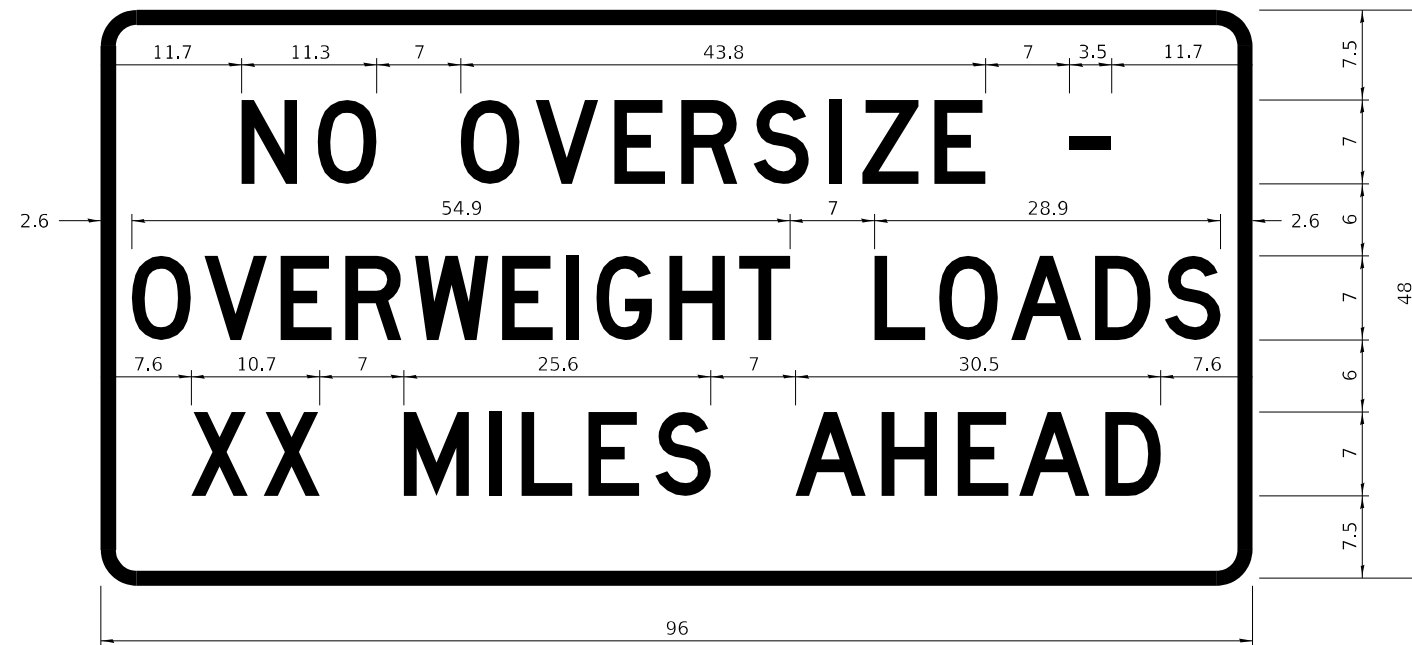
XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME: Z64R13-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.S. RTE. 1087	SECTION (106BR-2)BDR	COUNTY STEPHENSON	TOTAL SHEETS 21	SHEET NO. 15
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 64R13		
	PLOT DATE = 5/6/2022	DATE -	REVISED -									

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
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	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.

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

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

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.

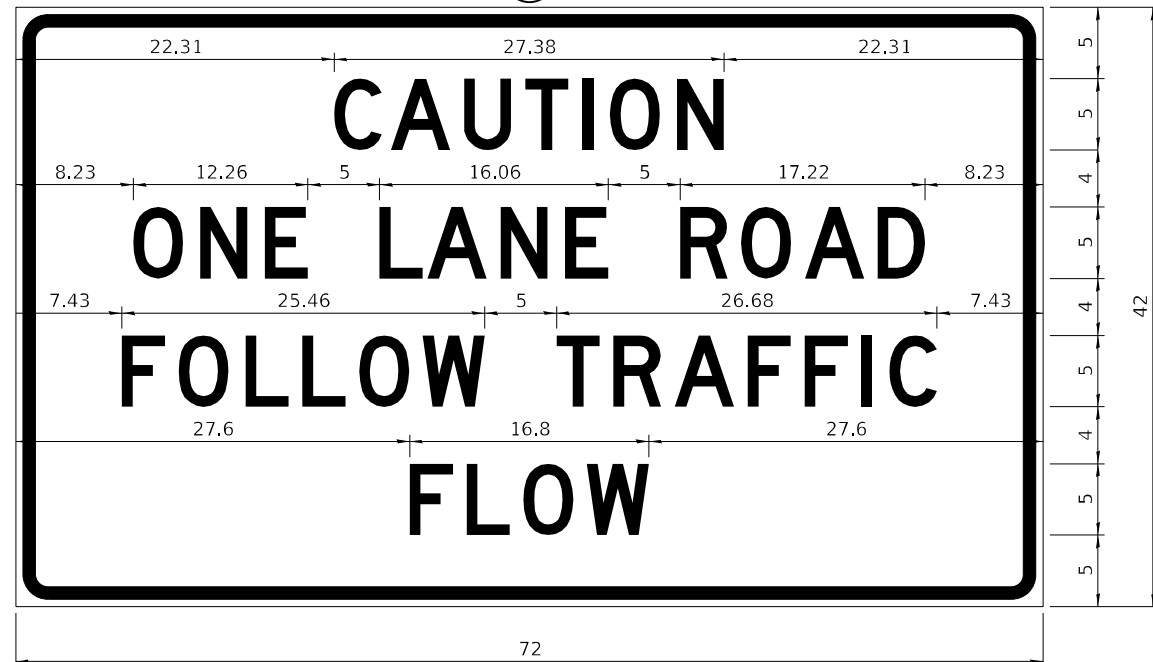
All dimensions are in inches unless otherwise noted.

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	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		1087	(106BR-2)BDR	STEPHENSON	21	16	CONTRACT NO. 64R13		
PLOT DATE = 5/6/2022	CHECKED -	REVISED -	SCALE: N.T.S.	SHEET 3	OF 4	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

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

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

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

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

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

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

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

Sign not to scale

GENERAL NOTES

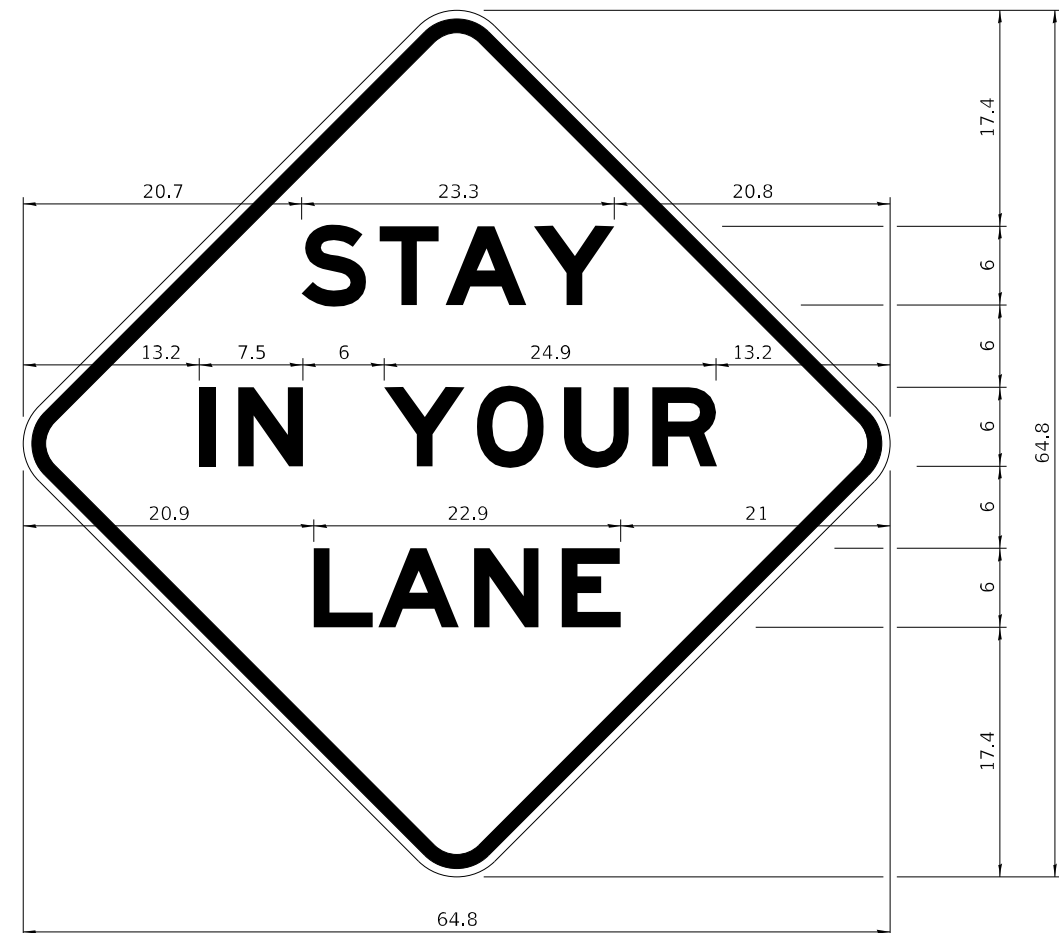
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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.

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

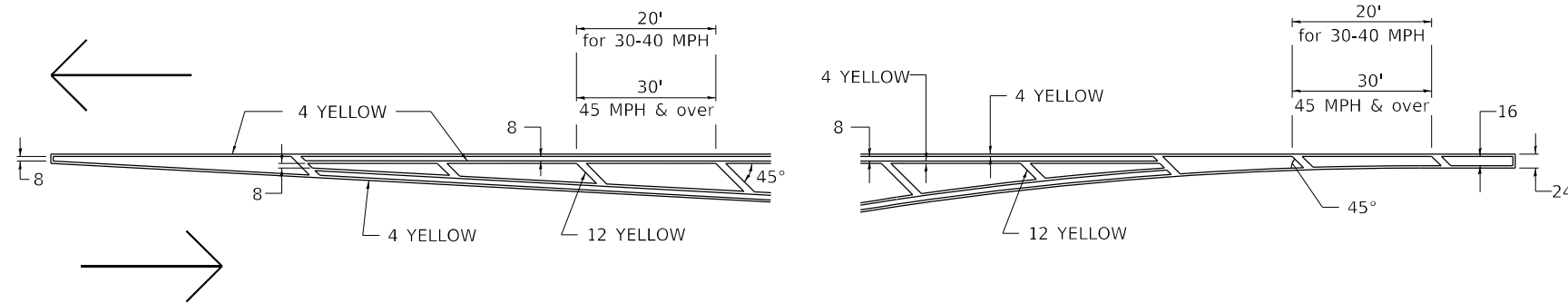
L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

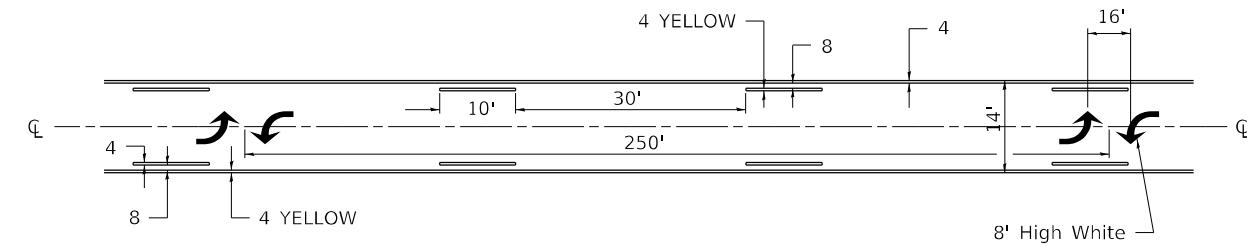
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	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		1087	(106BR-2)BDR	STEPHENSON	21	17			
	PLOT DATE = 5/6/2022	CHECKED -	REVISED -		SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -				CONTRACT NO. 64R13						

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

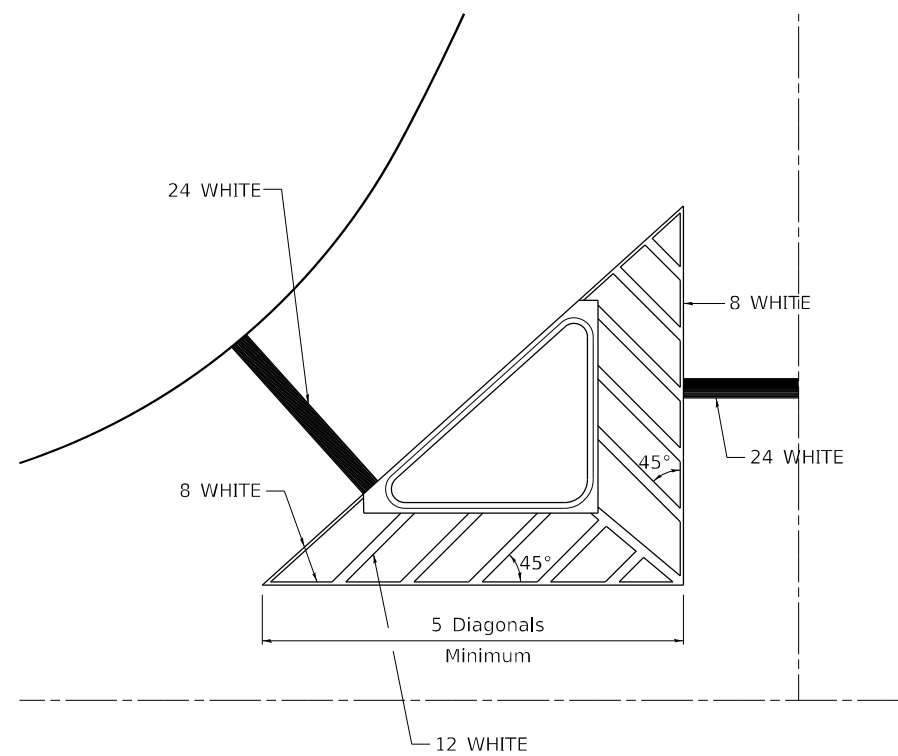


MEDIAN PAVEMENT MARKING



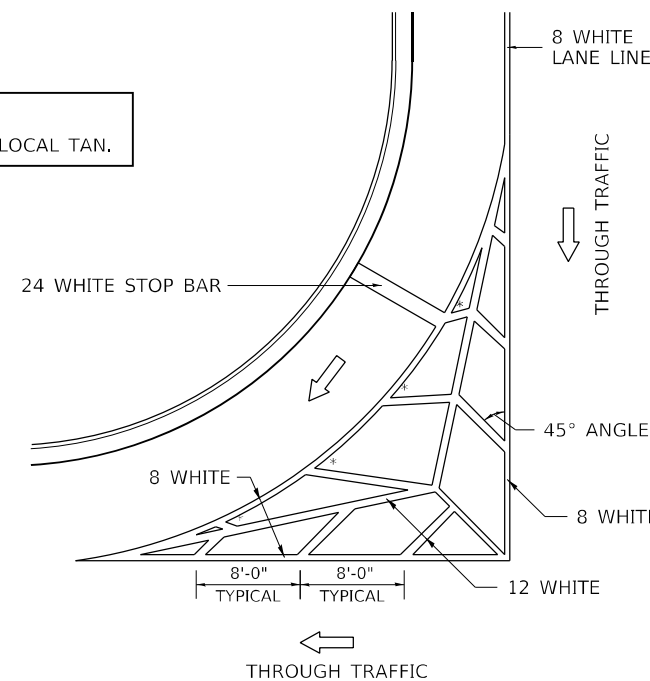
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



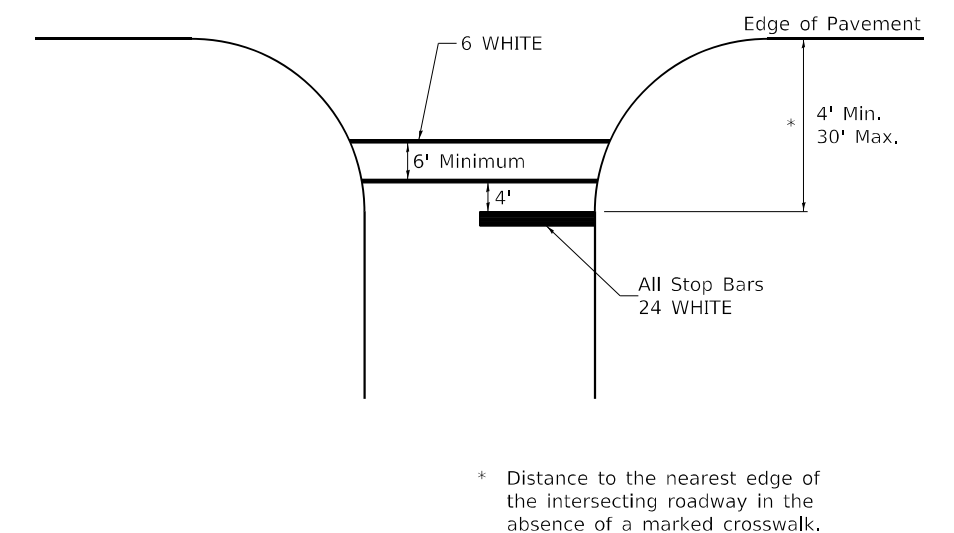
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

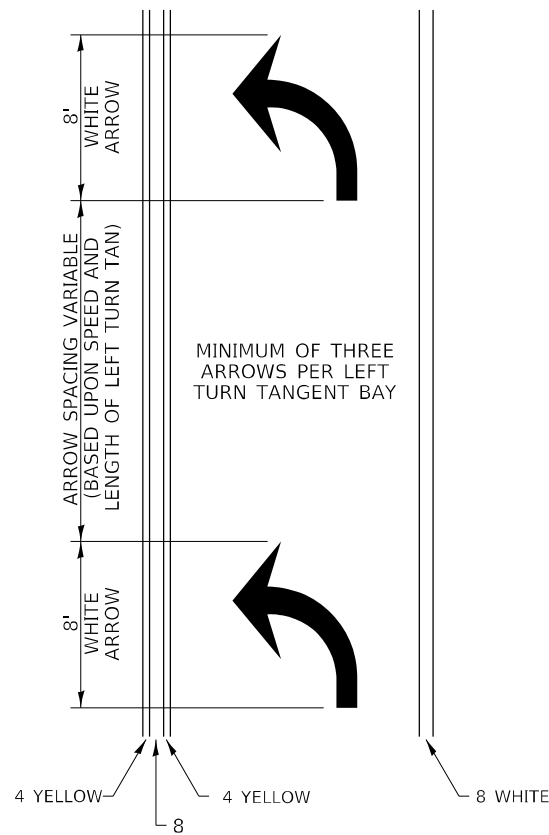
See Schedules for Locations



FILE NAME: Z64R13-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 3-05-12		SCALE: N.T.S.	SHEET 1	OF 3 SHEETS	STA.	TO STA.	1087	(106BR-2)BDR	STEPHENSON
PLOT DATE = 5/6/2022	CHECKED -	DATE -	REVISED -								CONTRACT NO. 64R13	
										ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

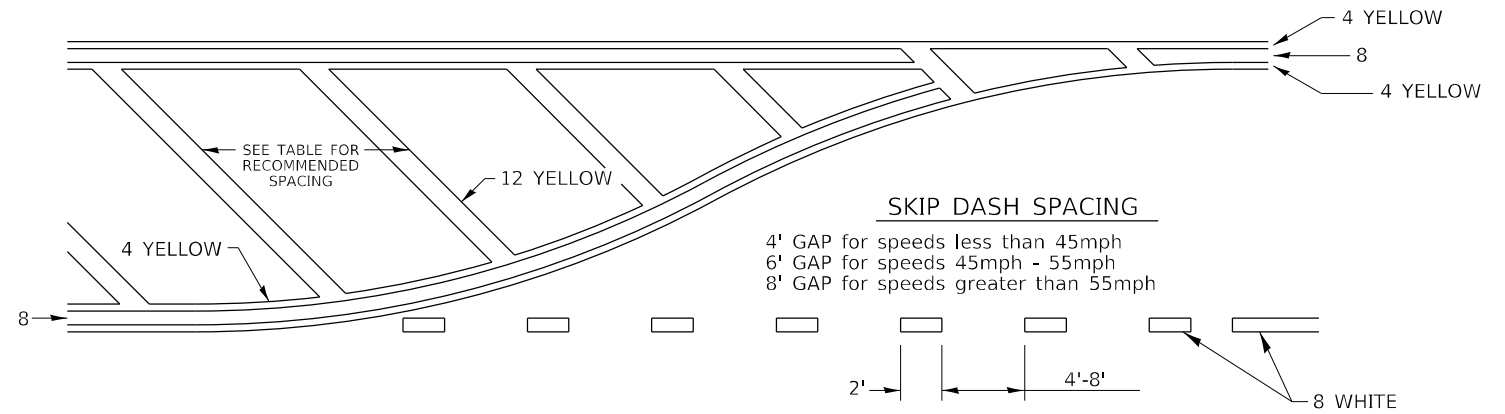


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

6 at 40' O.C. APPROACH SIDE ONLY

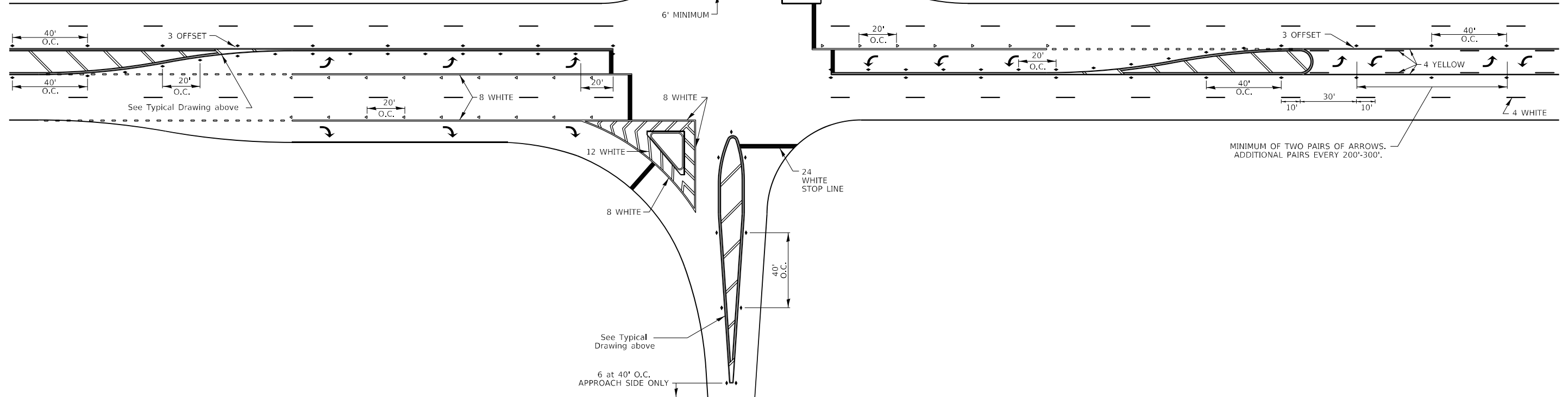
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

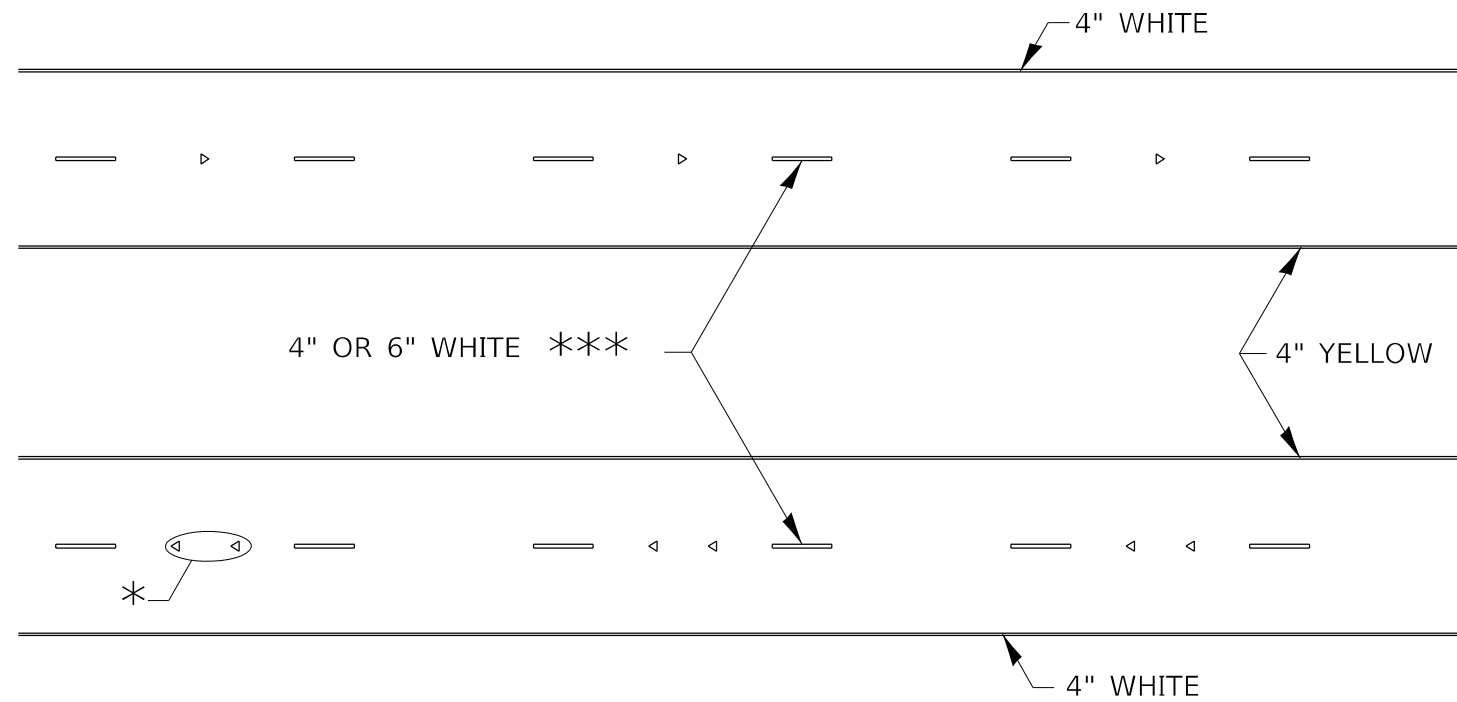
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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



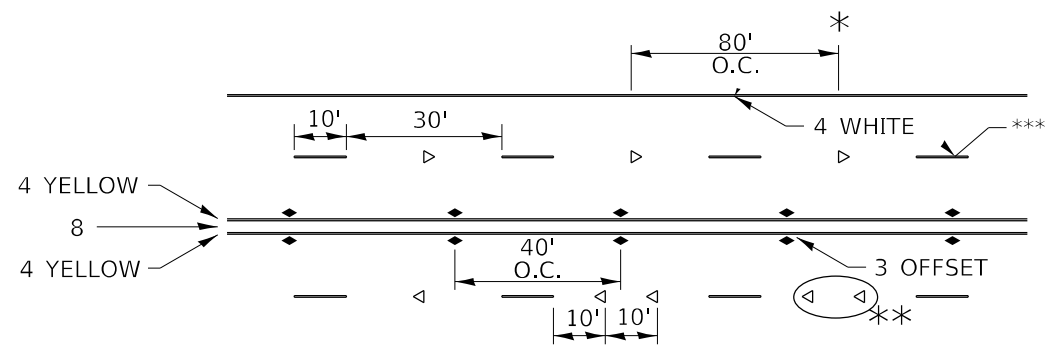
FILE NAME: Z64R13-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 3-05-12		SCALE: N.T.S.	SHEET 2 OF 3 SHEETS	STA. TO STA.	1087	(106BR-2)BDR	STEPHENSON	21
	PLOT DATE = 5/6/2022	CHECKED -	REVISED -				CONTRACT NO. 64R13				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

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.

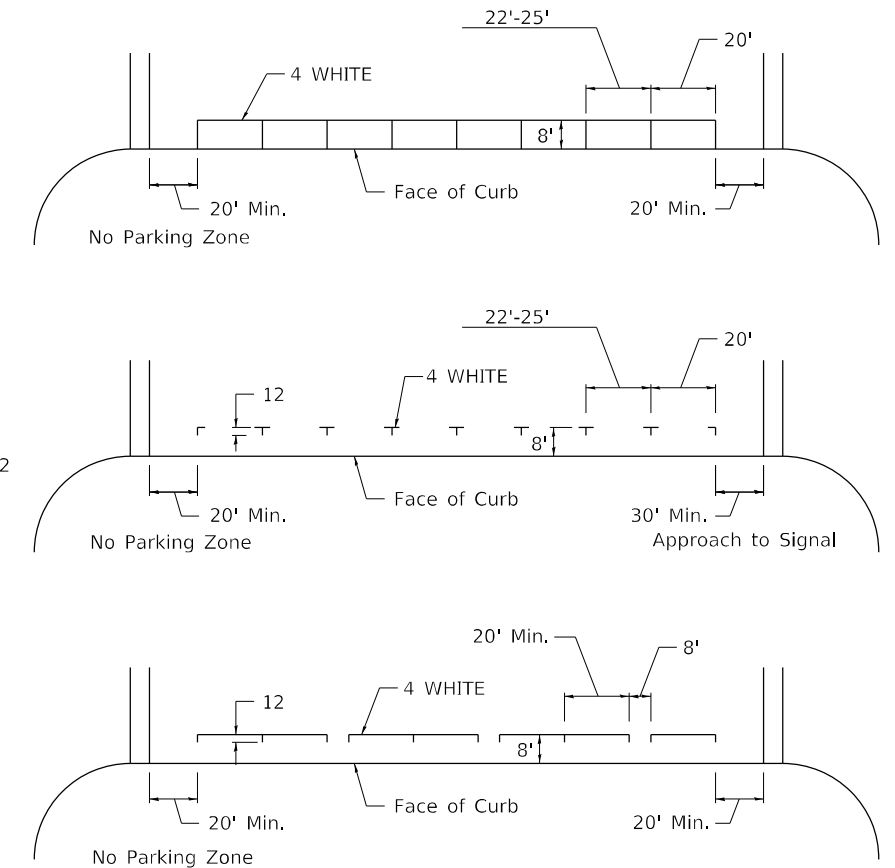
** USE DOUBLE MARKERS WHEN ADT \geq 20,000

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

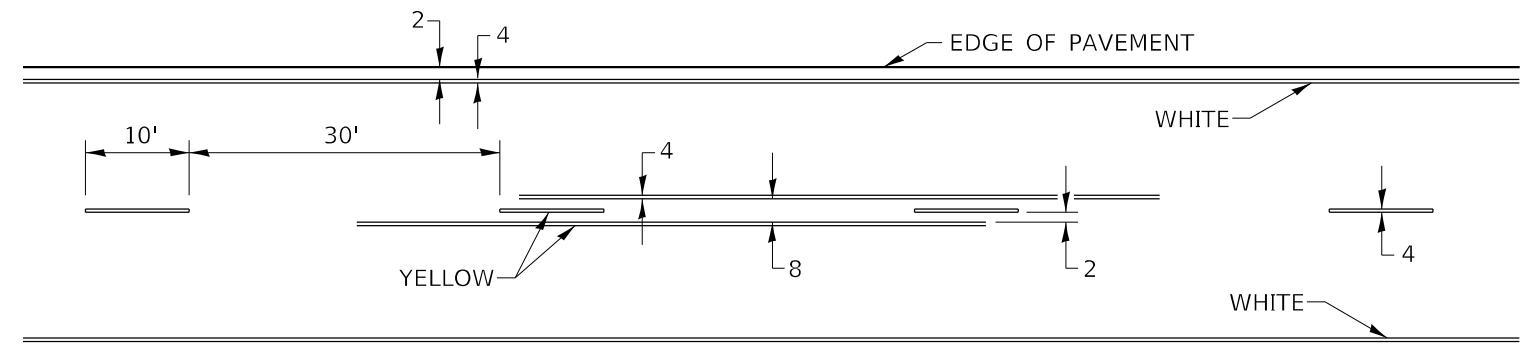
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



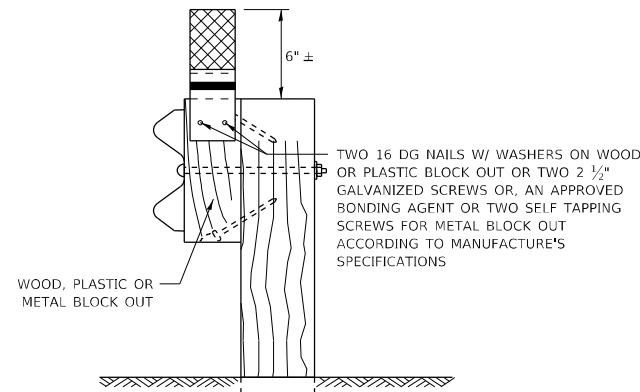
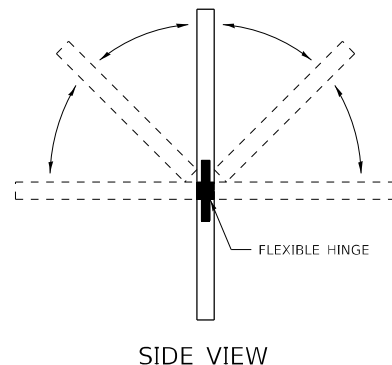
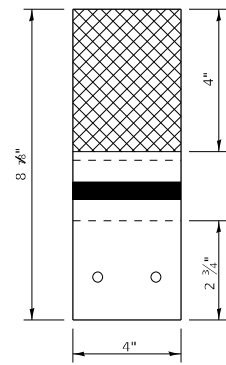
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME: Z64R13-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - 8-27-13					1087	(106BR-2)BDR	STEPHENSON	21	20
	PLOT DATE = 5/6/2022	CHECKED -	REVISED - 11-28-12		SCALE: N.T.S.	SHEET 3	OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 64R13		
											ILLINOIS FED. AID PROJECT	

GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

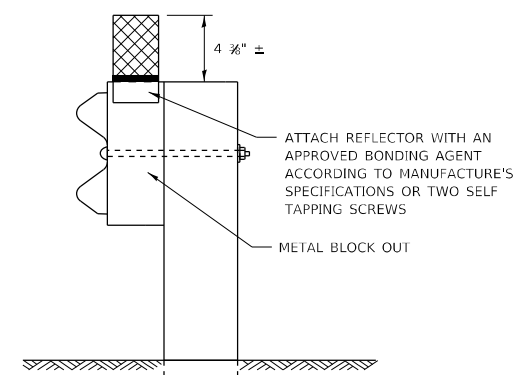
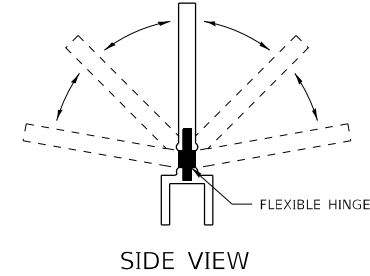
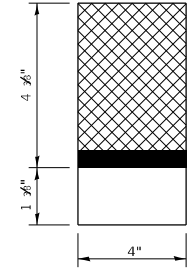


MOUNTED ON A WOOD OR PASTIC GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO WOOD OR PLASTIC BLOCK OUTS.

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

REFLECTORS MOUNTED ON WOOD OR PLASTIC GUARDRAIL BLOCK OUT



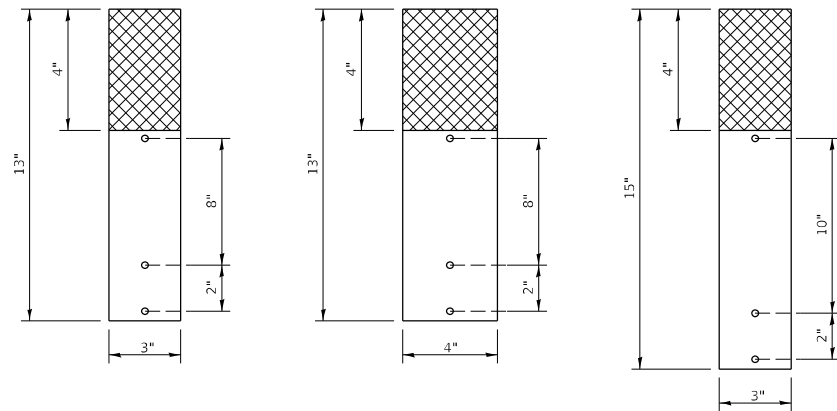
MOUNTED ON A METAL GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO METAL BLOCK OUT.

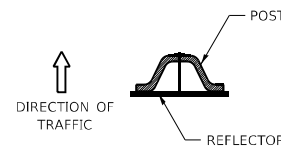
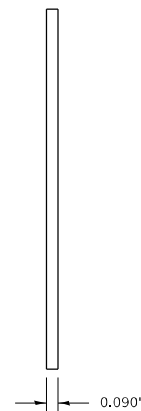
REFLECTORS MOUNTED ON METAL BLOCK OUT SHALL BE MOUNTED USING AN APPROVED BONDING AGENT PER THE MANUFACTURE'S SPECIFICATIONS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

REFLECTORS MOUNTED ON METAL GUARDRAIL BLOCK OUT

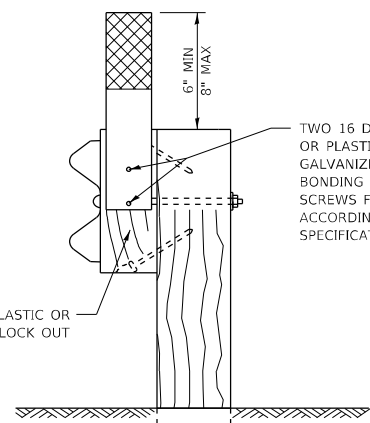
STRAIGHT GUARDRAIL / DELINEATOR REFLECTOR



SIDE VIEW



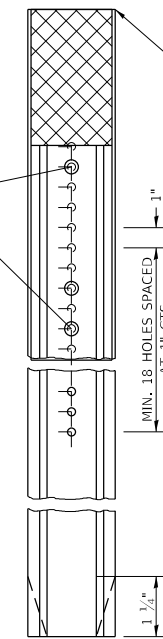
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHED AS SHOWN ABOVE.



MOUNTED ON A WOOD OR PASTIC GUARDRAIL BLOCK OUT

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS

10/24 X 1 1/2" BOLTS WITH WASHERS AND NUT (ADDITIONAL HOLES MAY BE DRILLED AS NEEDED)



TOP OF REFLECTOR PLACED FLUSH WITH TOP OF POST UNLESS DOUBLE SIDED REFLECTOR IS CALLED FOR, THEN REFLECTOR SHALL BE PLACED SUCH THAT THE REFLECTOR IS ABOVE THE TOP OF THE POST AND VISIBLE.

MOUNTED ON A DELINEATOR POST

NOTE:

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

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS SHALL BE SINGLE SIDED CRYSTAL.

SHEETING COLOR SHALL BE CALLED OUT IN THE PLANS.

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

REFLECTORS MOUNTED ON GUARDRAIL SHALL BE 4" WIDE.

REFLECTORS MOUNTED ON DELINEATOR POST SHALL BE 3" WIDE.

FILE NAME: Z64R13-SHT-D2Details.dgn	USER NAME = jpush	DESIGNED -	REVISED - 6-21-21
		DRAWN -	REVISED -
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1087	(106BR-2)BDR	STEPHENSON	21	21
CONTRACT NO. 64R13				

ILLINOIS FED. AID PROJECT