

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 646 (IL 40)
SECTION D2 BDR 2019-2
PROJECT
EXPANSION JOINT REPLACEMENT, CONCRETE
OVERLAY, & BEAM END REPAIRS
CARROLL COUNTY

C-92-003-19
R.5E

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	1
		ILLINOIS	CONTRACT NO. 64N26	

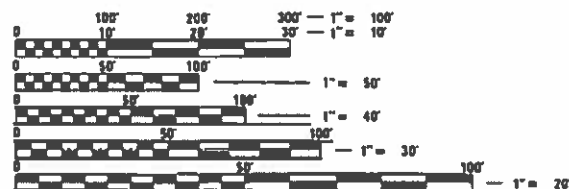
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STATE STANDARDS

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- 701201 - 05 Lane Closure, 2L, 2W, Day Only, for Speeds > 45MPH
- 701301 - 04 Lane Closure, 2L, 2W, Short Time Operations
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- 701001 - 02 Off-Road Operations, 2L, 2W, More Than 15' Away

SALEM TOWNSHIP - SECTION 17

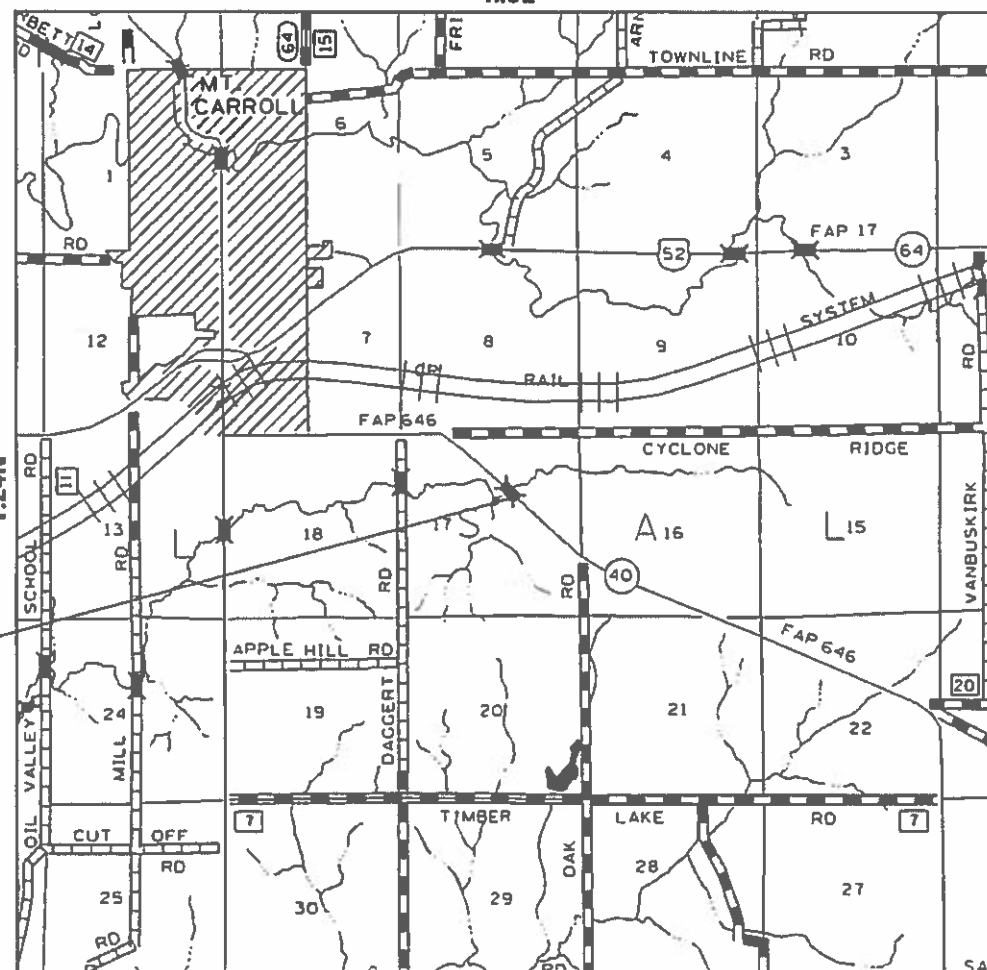


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MAHMOUD ETEMADI, EXT. 393
PROJECT MANAGER: MAHMOUD ETEMADI, EXT. 393

CONTRACT NO. 64N26



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 21, 2018
Kevin & Tarche Kuo
REGIONAL ENGINEER

Feb 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1, 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
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 final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

This structure will retain the same number 008-0033.

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.

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. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

(Type name & phone number of JULIE companies from attached utility form.)

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.

The following Mixture Requirements are applicable for this project:

Location(s):	
Mixture Use(s):	Surface
PG:	PG 64-22
Design Air Voids:	4.0 @N50
Mixture Composition (Mixture Gradation):	IL 9.5
Friction Aggregate:	C
Mixture Weight:	112 lbs.
Quality Management Program:	QC/QA
Sublot Size:	N/A
Number of Roller Passes ¹⁾ :	N/A

1) When a number of roller passes is specified, the Contractor may opt to use intelligent compaction in lieu of density testing under the Quality Control for Performance (QCP) program.

FILE NAME = 64N26.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -	REVISED -			FAP Route 646 (IL 40)	D2 BDR 2019-2	Carroll	21	2
	PLOT DATE = 12/21/2018 10:24 AM	CHECKED -	REVISED -			CONTRACT NO. #64N26		ILLINOIS	FED. AID PROJECT	
						SCALE:	SHEET NO. OF SHEETS	STA. TO STA.		

SUMMARY OF QUANTITIES

CONSTR. CODE
SN 008-0033
100% STATE
BRIDGE
0047
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	144.4	144.4
40600990	TEMPORARY RAMP	SQ YD	58	58
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	15	15
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	85	85
48301000	PROTECTIVE COAT	SQ YD	261	261
50102400	CONCRETE REMOVAL	CU YD	9.9	9.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11	11
50300260	BRIDGE DECK GROOVING	SQ YD	230	230
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1220	1220
52000110	PREFORMED JOINT STRIP SEAL	FOOT	69	69
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	22	22
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	64	64

* SPECIALTY ITEM

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																		
646	D2 BDR 2019-2	CARROLL	21	3																		
CONTRACT NO. 64N26																						

SUMMARY OF QUANTITIES

CONSTR. CODE
SN 008-0033
100% STATE
BRIDGE
0047
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL
78001110	PAINT PAVEMENT MARKING - LINE4"	FOOT	1360	1360
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0001905	STRUCTURAL STEEL REPAIR	POUND	4330	4330
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUESNO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO.1	L SUM	1	1
Z0012130	BRIDGE DECK SCARIFICATION3/4"	SQ YD	235	235
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	235	235

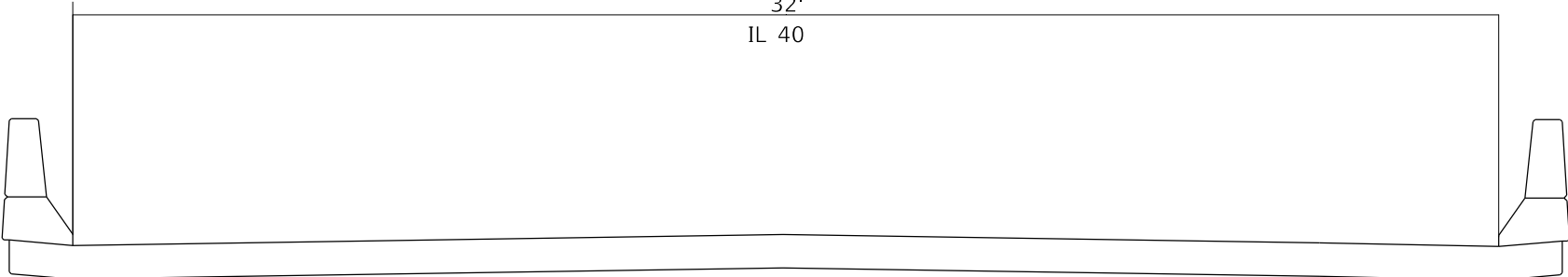
* SPECIALTY ITEM

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USER NAME = bertonrw DRAWN - _____ CHECKED - _____ DATE - _____	DESIGNED - _____ REVISIONS - _____ REVISIONS - _____ REVISIONS - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 646 SECTION D2 BDR 2019-2 COUNTY CARROLL TOTAL SHEETS 21 SHEET NO. 4	CONTRACT NO. 64N26 ILLINOIS FED. AID PROJECT
SCALE: _____ SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____					

TYPICALS

SN 008-0033 OVER THE JOHNSON CREEK
 32'
 IL 40



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	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT						

40600982

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

<u>SQ YD</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
72.2	72.2	904 + 70.00 - 904 + 95.00	MAINLINE
72.2	72.2	905 + 90.00 - 906 + 15.00	MAINLINE
144.4	144.4	TOTAL	
	144.4	GRAND TOTAL	

78001110

PAINT PAVEMENT MARKING - LINE

<u>FOOT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
300	300	904 + 00 - 907 + 00	RT SIDE
80	80	904 + 00 - 907 + 00	CENTER LINE
300	300	904 + 00 - 907 + 00	LT SIDE
680	680	TOTAL	
	1360	GRAND TOTAL	2 COATS

40600990

TEMPORARY RAMP

<u>SQ YD</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
28.9	29.0	904 + 95 - 905 + 5	MAINLINE
28.9	29.0	#REF! + #REF! - #REF! + #REF!	MAINLINE
57.8	58.0	TOTAL	
	58	GRAND TOTAL	

40603310

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

<u>TONS</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
8.0	8.0	904 + 70.00 - 905 + 5.00	MAINLINE
7.8	8.0	905 + 80.00 - 906 + 15.00	MAINLINE
15.8	16.0	TOTAL	
	16	GRAND TOTAL	

40800025

BITUMINOUS MATERIALS (PRIME COAT)

<u>ILS</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
42.9	43.0	904 + 70.00 - 905 + 5.00	MAINLINE
41.6	42.0	905 + 80.00 - 906 + 15.00	MAINLINE
84.5	85.0	TOTAL	
	85	GRAND TOTAL	

70300150

SHORT TERM PAVEMENT MARKING REMOVAL

<u>SQ FT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
21	22	904 + 00 - 907 + 00	CENTER LINE
21.3	22	TOTAL	
	22	GRAND TOTAL	

70300220

TEMPORARY PAVEMENT MARKING LINE, 4"

<u>FOOT</u>	<u>TOTAL</u>	<u>LOCATION</u>	<u>COMMENTS</u>
64	64	904 + 00 - 907 + 00	CENTER LINE
64	64	TOTAL	
	64	GRAND TOTAL	

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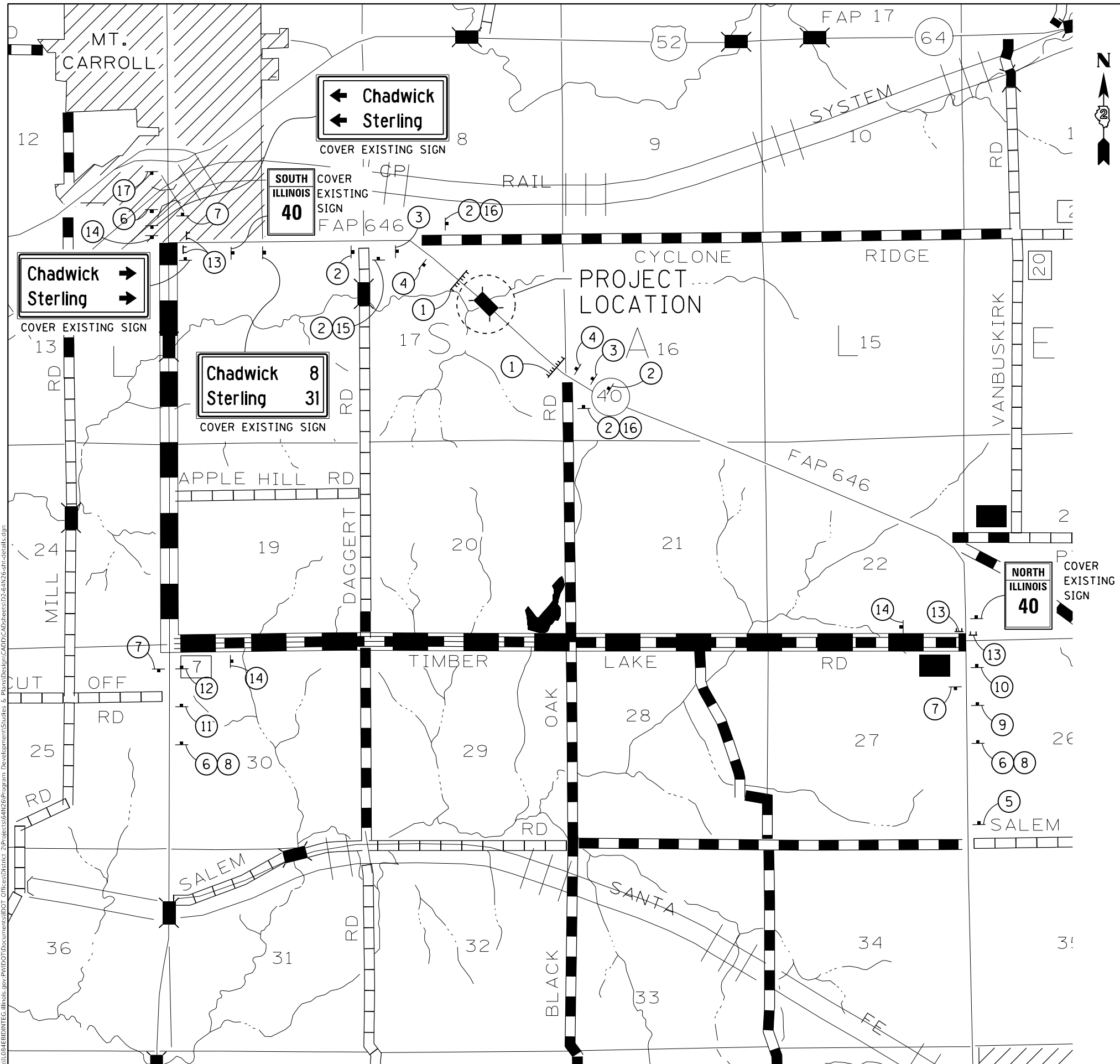
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	6
CONTRACT NO. 64N26				
ILLINOIS FED. AID PROJECT				



LEGEND

- ① **ROAD CLOSED** R11-2
 - ② **ROAD CLOSED AHEAD** W20-3(F0)-48
 - ③ **ROAD CLOSED 1000 FT** W20-3(F0)-48
 - ④ **BARRICADE AHEAD** W20-3(F0)-48
 - ⑤ **ROAD CLOSED AHEAD** W20-3(F0)-48
4 MILES M4-8 (F0)
 - ⑥ **DETOUR AHEAD** W20-2(O)-48
 - ⑦ **END DETOUR** M4-8a-2418
 - ⑧ **IL 40** M4-8 (F0)
 - ⑨ **DETOUR ILLINOIS 40** M4-8 (F0)
M1-I100 (3024)
← M5-1L(O)-2115
 - ⑩ **DETOUR ILLINOIS 40** M4-8(F0)-2412
M1-I100(24)
← M6-1L(O)-2115
 - ⑪ **DETOUR ILLINOIS 40** M4-8(F0)-2412
M1-I100(24)
↶ M5-1R(O)-2115
 - ⑫ **DETOUR ILLINOIS 40** M4-8 (F0)
M1-I100 (3024)
→ M6-1R(O)-2115
 - ⑬ **ROAD CLOSED TO THRU TRAFFIC** R11-4
MOUNTED ON BOTH TYPE III BARRICADES
 - ⑭ **DETOUR ILLINOIS 40** M4-8 (F0)
M1-I100 (3024)
↑ M6-3(O)-2115
 - ⑮ **→** M6-1R(O)-2115
 - ⑯ **←** M6-1L(O)-2115
 - ⑰ **ROAD CLOSED AHEAD** W20-3(F0)-48
IL 40 M4-8 (F0)
2 MILES M4-8 (F0)
- ▬▬▬▬▬** DETOUR ROUTE
- ⊥** TYPE III BARRICADES WITH FLASHERS PLACED AS SHOWN IN STANDARD 701901.

THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL)

MODEL: Default
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PLOT DATE = Dec-21-2018 12:00:15 PM	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROAD CLOSURE & DETOUR PLAN

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

F.A.P. RTE. 646	SECTION D2 BDR 2019-2	COUNTY CARROLL	TOTAL SHEETS 21	SHEET NO. 7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64N26	

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 50, unless otherwise noted.

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

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

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

Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 13/16"Ø, unless otherwise noted.

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

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

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Areas to be cleaned and painted shall consist of all beam ends, end diaphragms and steel components of the steel bearings at the abutments. Beam end painting shall extend 5 feet from the ends of the beams longitudinally. This surface preparation shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SP 10. The paint system shall be applied as specified for System 1 OZ/E/U. The color of the final finish coat shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Containment and disposal as specified shall follow the special provision for "Containment and Disposal of Lead Point Cleaning Residue". The use of two air monitors will be required to monitor abrasive blasting operations.

The painting contractor shall be SSPC-QP 1 and SSPC-QP 2 certified for this project and shall maintain certification throughout the duration of the project.

Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the Contractor's expense.

Cleaning and painting of beam ends shall be performed after the concrete removal at the joints has been completed and prior to the installation of any forms for the placement of the new concrete at those locations.

Synthetic fibers shall be added to the Bridge Deck Microsilica Concrete Overlay. See Special Provisions.

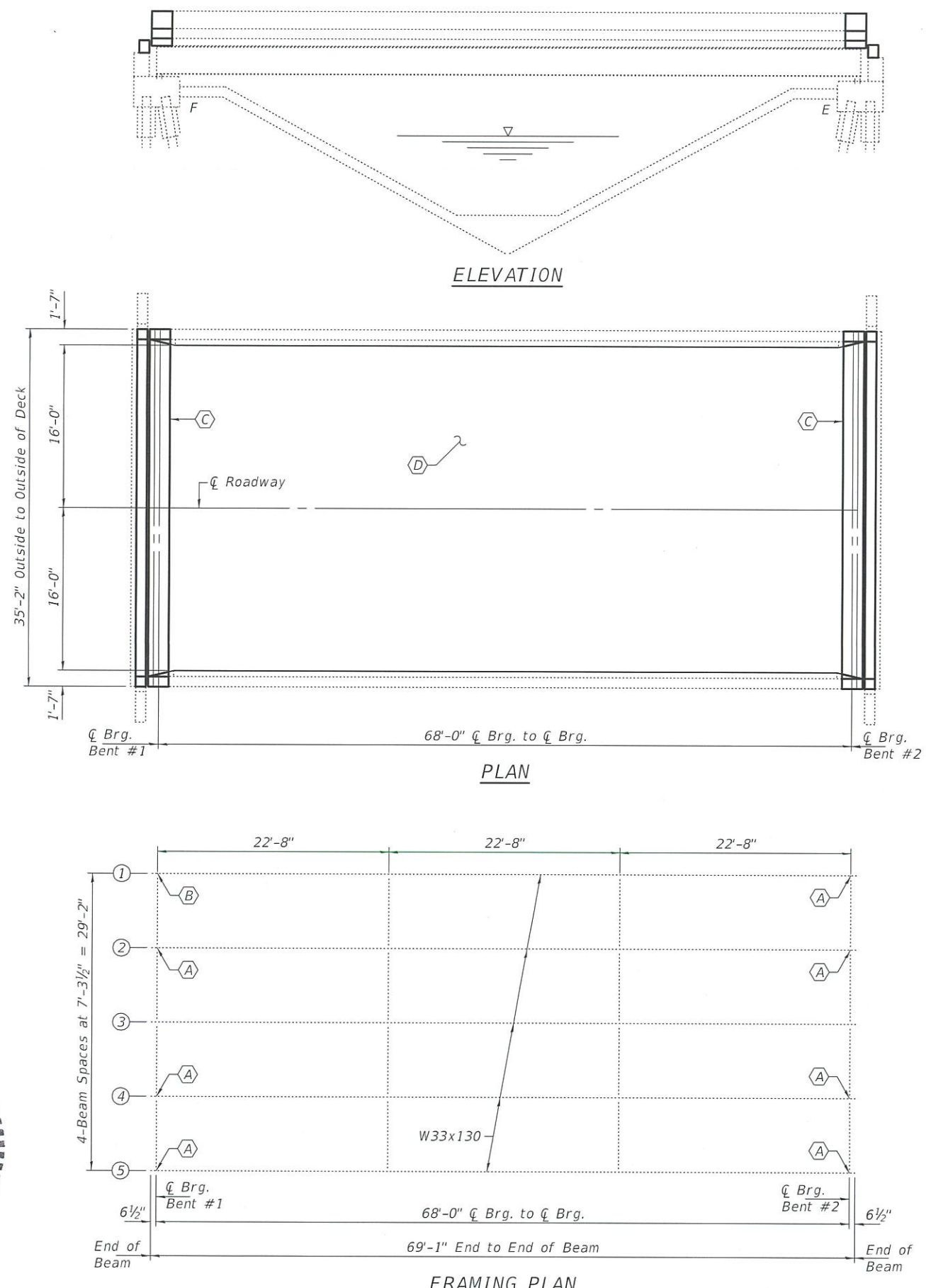
All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."

Traffic will be detoured.

TOTAL BILL OF MATERIAL

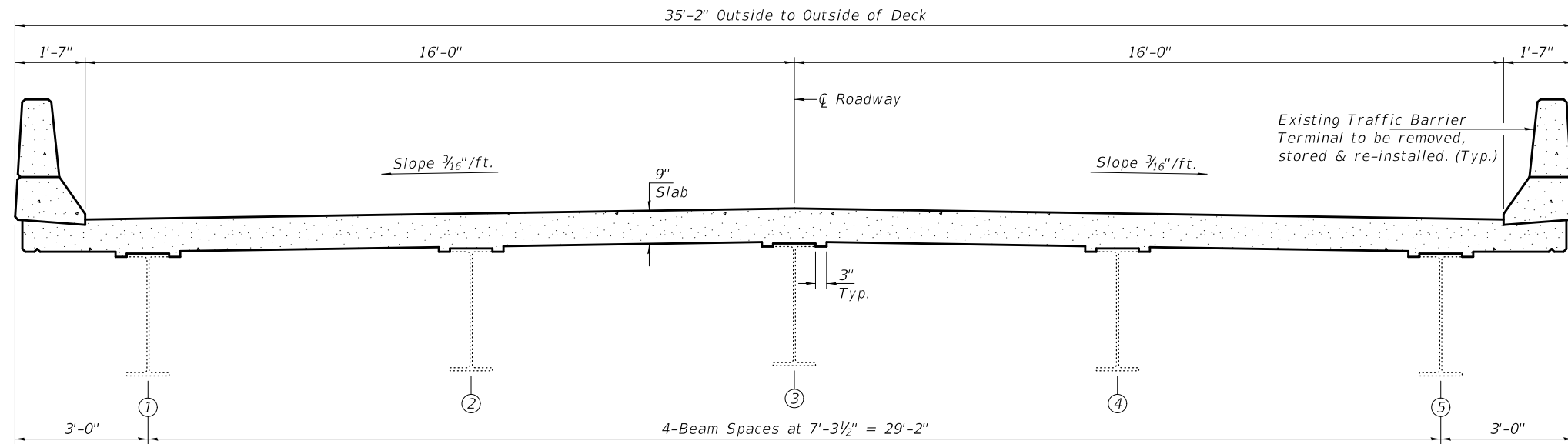
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	9.9
Concrete Superstructure	Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated	Pound	1220
Bridge Deck Scarification, 3/4"	Sq. Yd.	235
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	235
Bridge Deck Grooving	Sq. Yd.	230
Preformed Joint Strip Seal	Foot	69
Protective Coat	Sq. Yd.	261
Structural Steel Repair	Pound	4330
Containment and Disposal of Lead Paint Residues, No. 1	L.S.	1
Cleaning and Painting Steel Bridge, No. 1	L.S.	1

* Apply to new concrete and concrete overlay surfaces only.

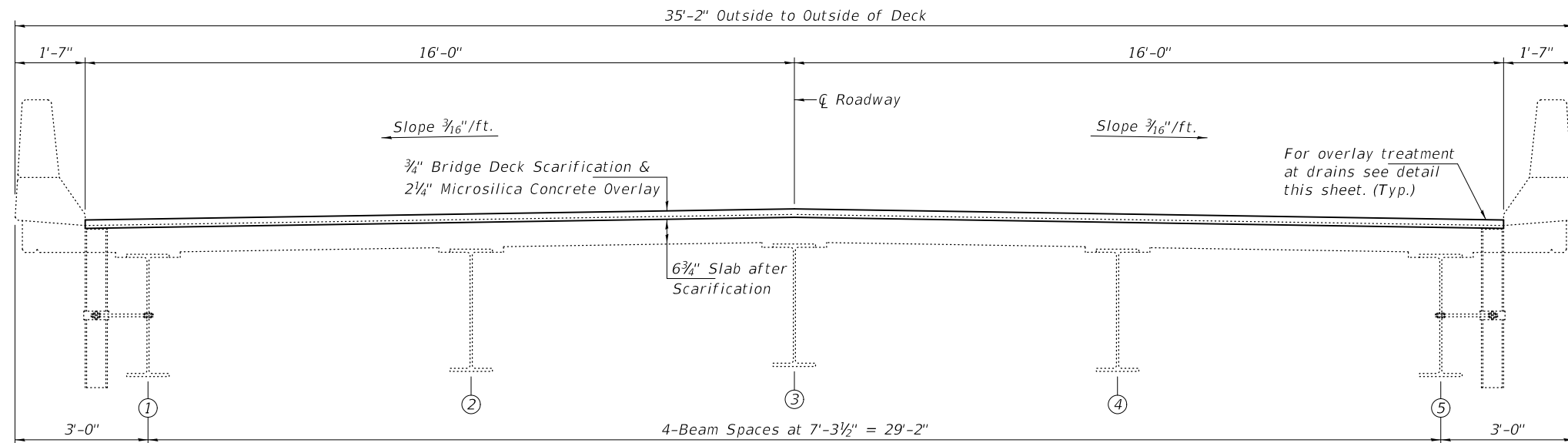


- (A) - Beam End Repair (Repair A)
- (B) - Beam End Repair (Repair B)
- (C) - Remove & Replace existing Expansion Joint
- (D) - Scarify Bridge Deck 3/4" and install 2 1/4" Microsilica Concrete Overlay.

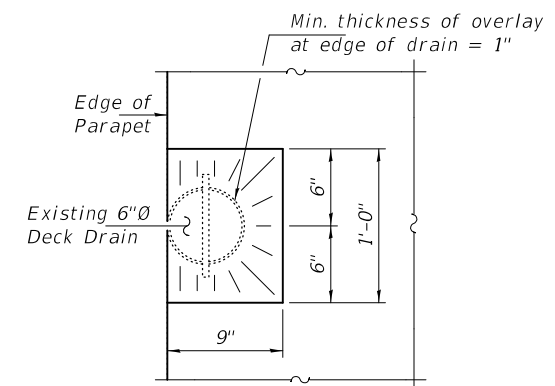
Expires: November 30, 2020



CROSS SECTION AT BENTS
(Looking East)



CROSS SECTION AT MID-SPAN
(Looking East)



OVERLAY TREATMENT AT DRAINS

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV JSB

EXAMINED
PASSED

Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES

Carl R. Meyer
ENGINEER OF BRIDGES AND STRUCTURES

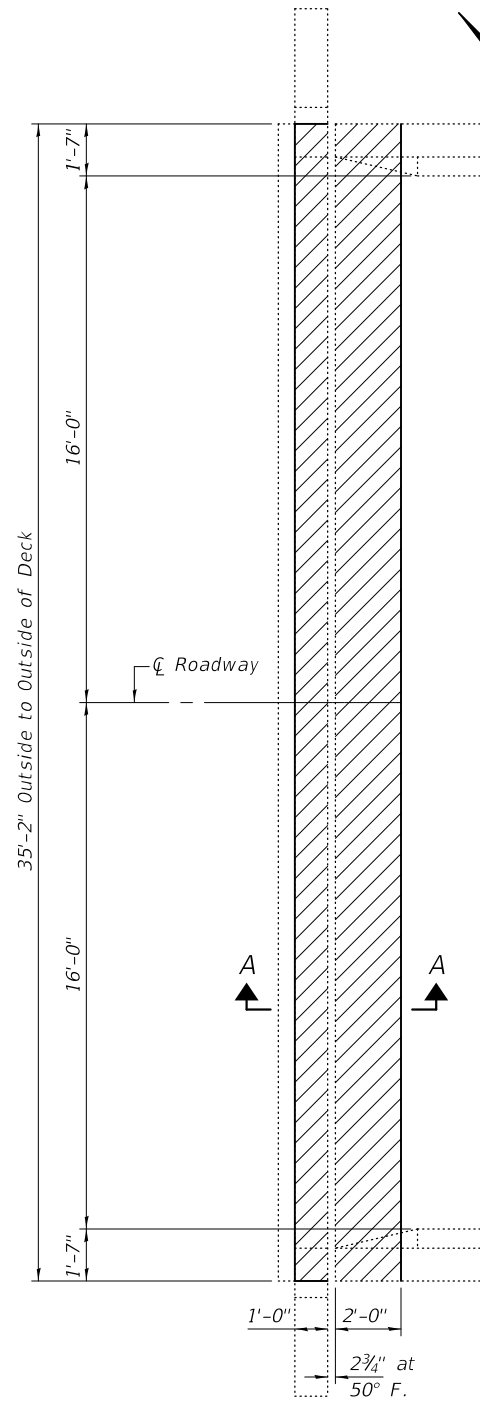
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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SN 008-0033

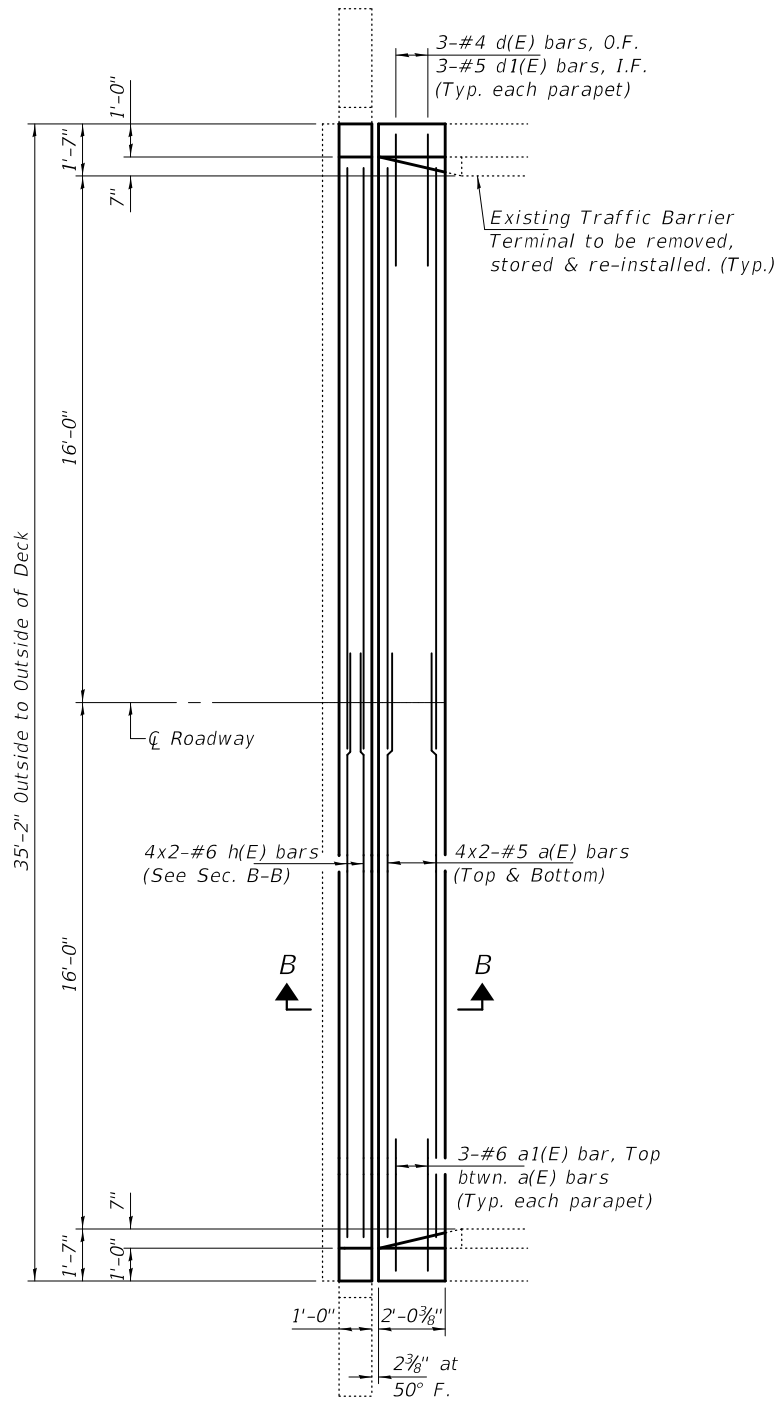
SHEET NO. 2 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	9
CONTRACT NO. 64N26				
ILLINOIS FED. AID PROJECT				



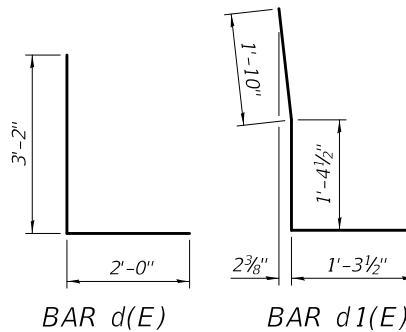
CONCRETE REMOVAL PLAN

Bent #1 shown; Bent #2 similar by rotation.



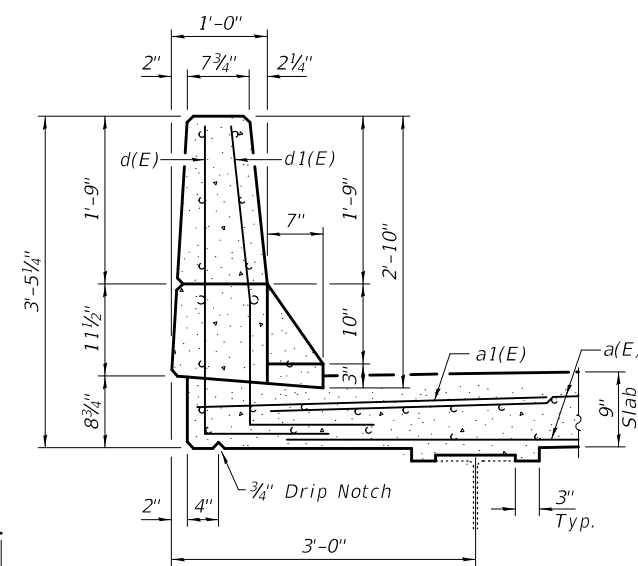
CONCRETE REPLACEMENT PLAN

Bent #1 shown; Bent #2 similar by rotation.

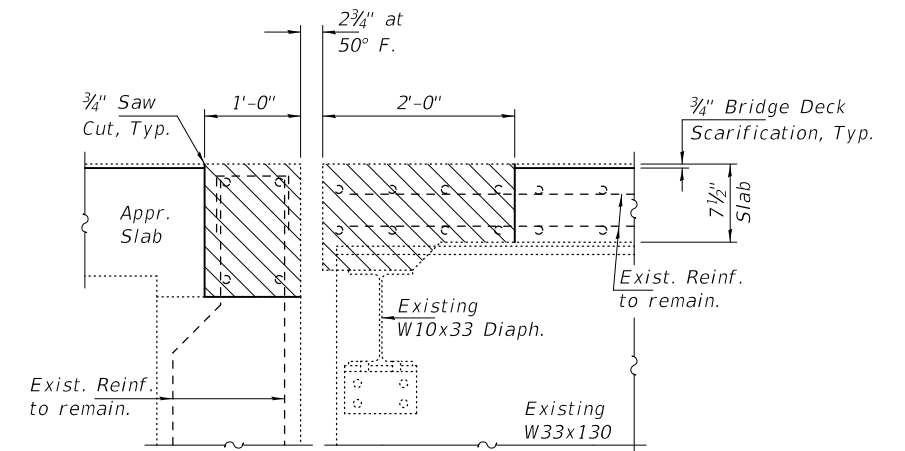


BAR d(E)

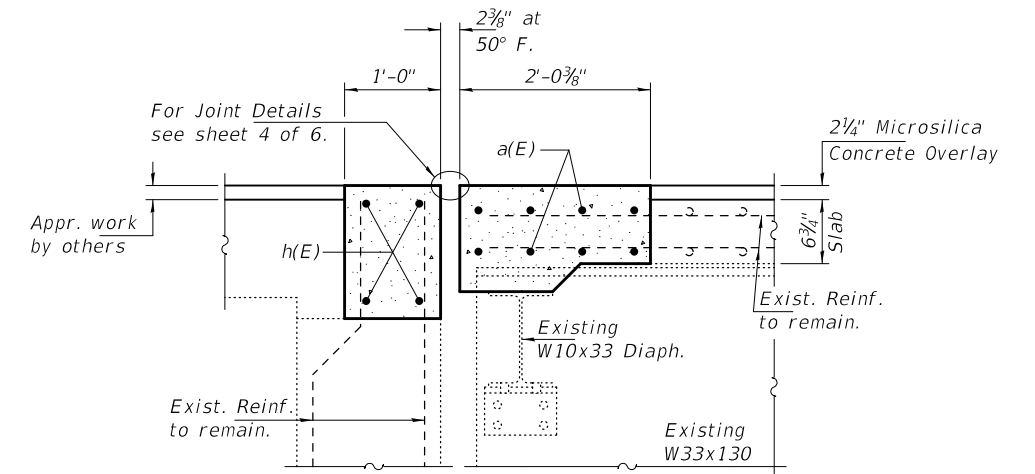
BAR d1(E)



SECTION THRU BRIDGE PARAPET



SECTION A-A



SECTION B-B

MIN. BAR LAP

#5 Bars = 3'-6"
#6 Bars = 4'-0"

BILL OF MATERIAL BOTH BENTS

Bar	No.	Size	Length	Shape
a(E)	32	#5	18'-4"	—
a1(E)	12	#6	4'-0"	—
d(E)	12	#4	5'-2"	L
d1(E)	12	#5	4'-6"	L
h(E)	16	#6	18'-5"	—
Concrete Removal			Cu. Yd.	9.9
Concrete Superstructure			Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated			Pound	1220

Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV JSB

EXAMINED
PASSED

 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

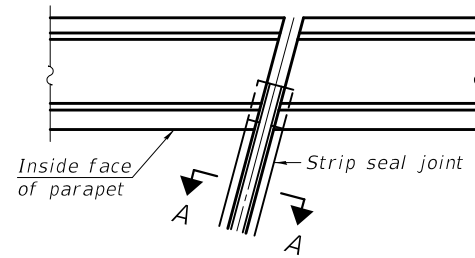
DATE - JANUARY 29, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

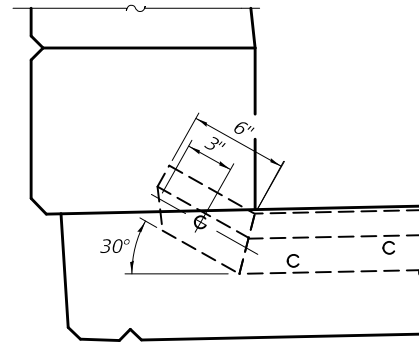
JOINT REMOVAL & REPLACEMENT DETAILS
SN 008-0033

SHEET NO. 3 OF 6 SHEETS

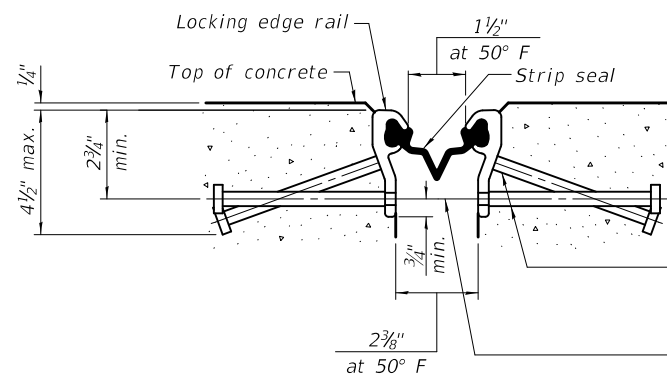
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	10
CONTRACT NO. 64N26				
ILLINOIS		FED. AID PROJECT		



FOR SKEWS $\leq 30^\circ$
PLAN AT PARAPET



ELEVATION AT PARAPET
 (Skews $\leq 30^\circ$)



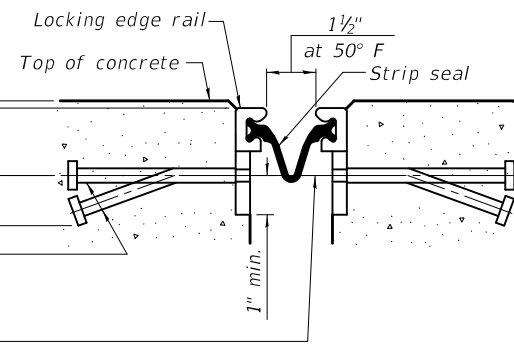
SHOWING ROLLED RAIL JOINT

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

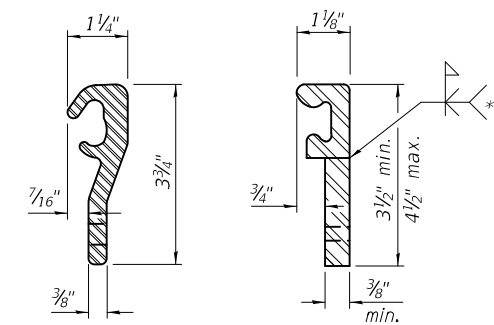
$\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



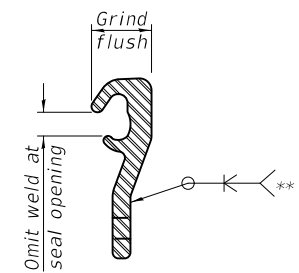
SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS
 ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	69

EJ-SS1 LT30/REPS

6-22-18

DESIGNED - JOV	CHECKED - JSB
DRAWN - STEFFEN	CHECKED - JOV JSB

EXAMINED	<i>Timothy A. Daulton</i>	DATE - JANUARY 29, 2019
PASSED	<i>Carl R. Meyer</i>	REVISIONS
	ENGINEER OF BRIDGES AND STRUCTURES	

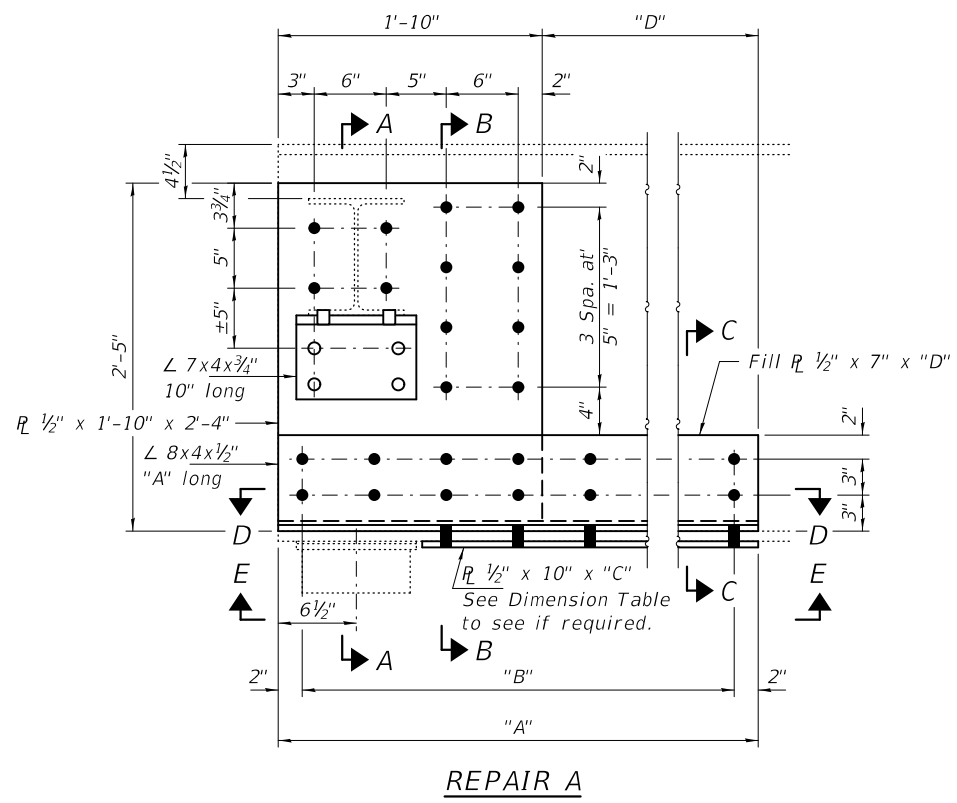
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
 SN 008-0033

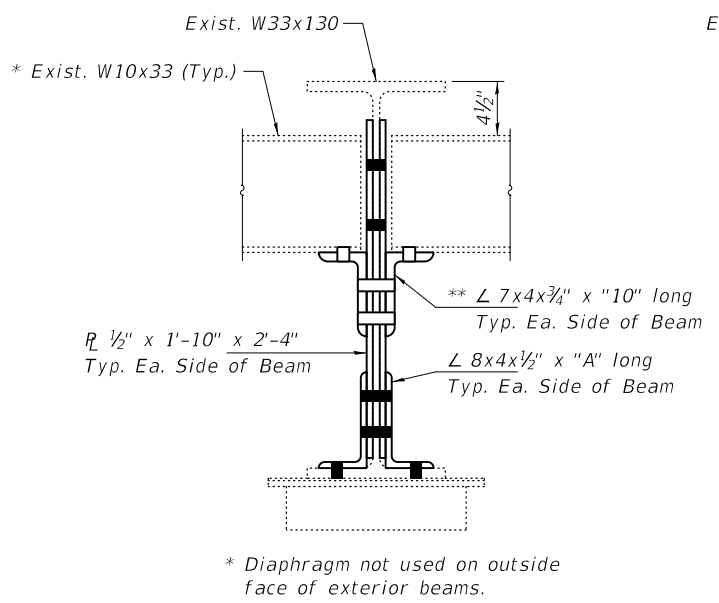
SHEET NO. 4 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	11
ILLINOIS			FED. AID PROJECT	

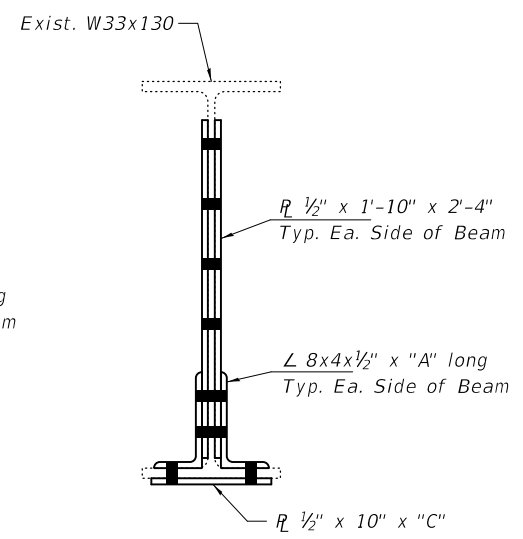
CONTRACT NO. 64N26



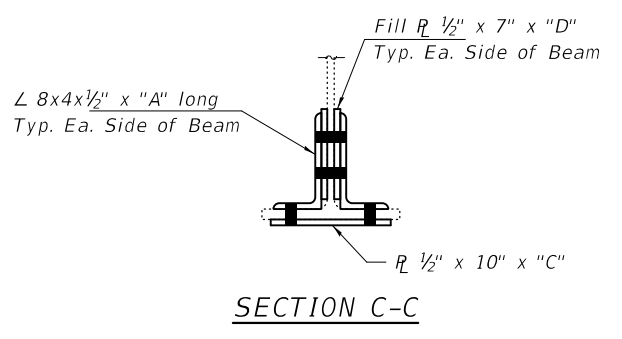
REPAIR A



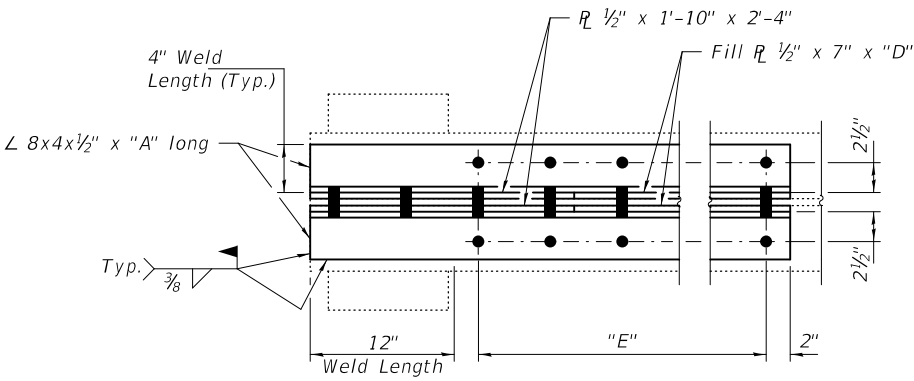
SECTION A-A



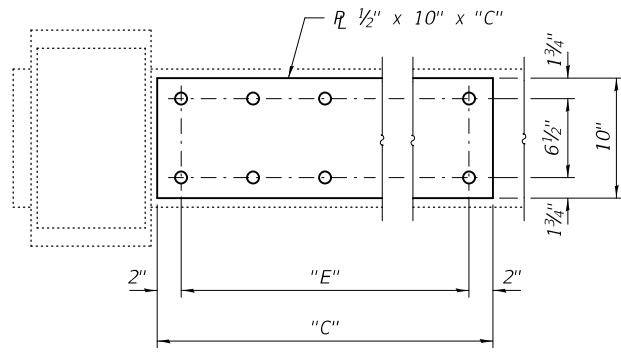
SECTION B-B



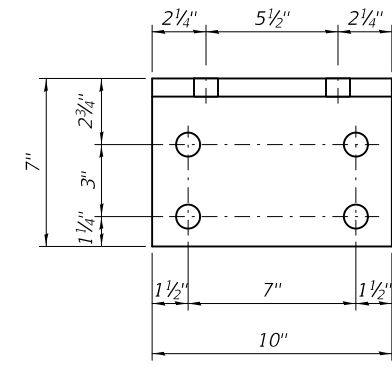
SECTION C-C



SECTION D-D



VIEW E-E



CLIP ANGLE DETAILS

L 7x4x3/4" x 10" long
(12 Required)

DIMENSION TABLE

Location	"A"	"B"	"C"	"D"	"E"
Bent 1, Beam 2	3'-4"	6 Spa. at 6" = 3'-0"	-	1'-6"	4 Spa. at 6" = 2'-0"
Bent 1, Beam 4	2'-4"	4 Spa. at 6" = 2'-0"	-	6"	2 Spa. at 6" = 1'-0"
Bent 1, Beam 5	2'-4"	4 Spa. at 6" = 2'-0"	1'-4"	6"	2 Spa. at 6" = 1'-0"
Bent 2, Beam 1	7'-4"	14 Spa. at 6" = 7'-0"	6'-4"	5'-6"	12 Spa. at 6" = 6'-0"
Bent 2, Beam 2	3'-4"	6 Spa. at 6" = 3'-0"	2'-4"	1'-6"	4 Spa. at 6" = 2'-0"
Bent 2, Beam 4	9'-4"	18 Spa. at 6" = 9'-0"	-	7'-6"	16 Spa. at 6" = 8'-0"
Bent 2, Beam 5	4'-4"	8 Spa. at 6" = 4'-0"	-	2'-6"	6 Spa. at 6" = 3'-0"

- BOLT HOLE LEGEND**
- - Field drill using new steel as template.
 - - Shop drill holes in new steel.

Note:
Trim diaphragms as required for reinstallation.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	3690

DESIGNED - JOV
CHECKED - JSB
DRAWN - STEFFEN
CHECKED - JOV JSB

EXAMINED
PASSED

 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

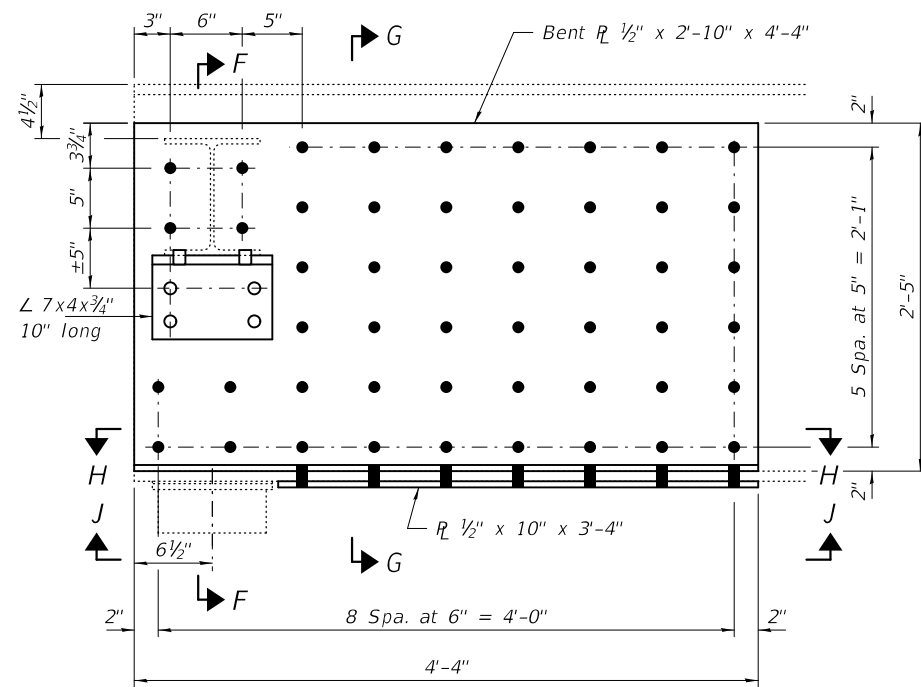
DATE - JANUARY 29, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

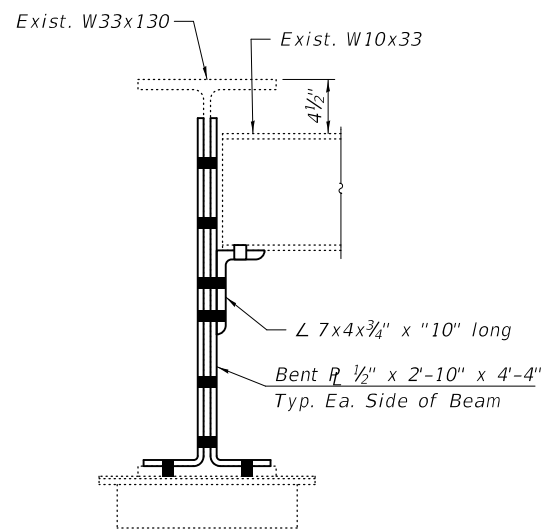
BEAM END REPAIR DETAILS - REPAIR A
SN 008-0033

SHEET NO. 5 OF 6 SHEETS

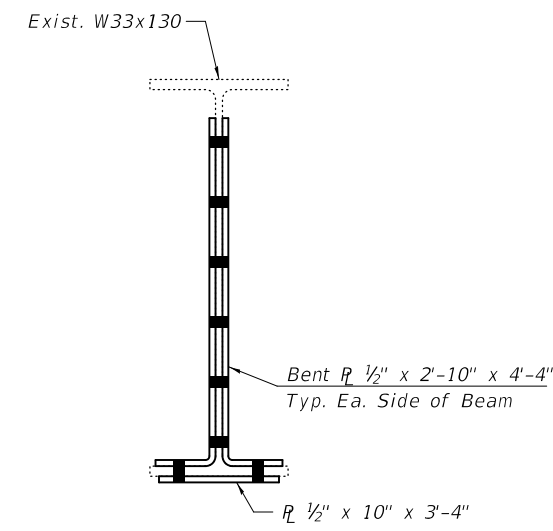
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	12
CONTRACT NO. 64N26				
ILLINOIS FED. AID PROJECT				



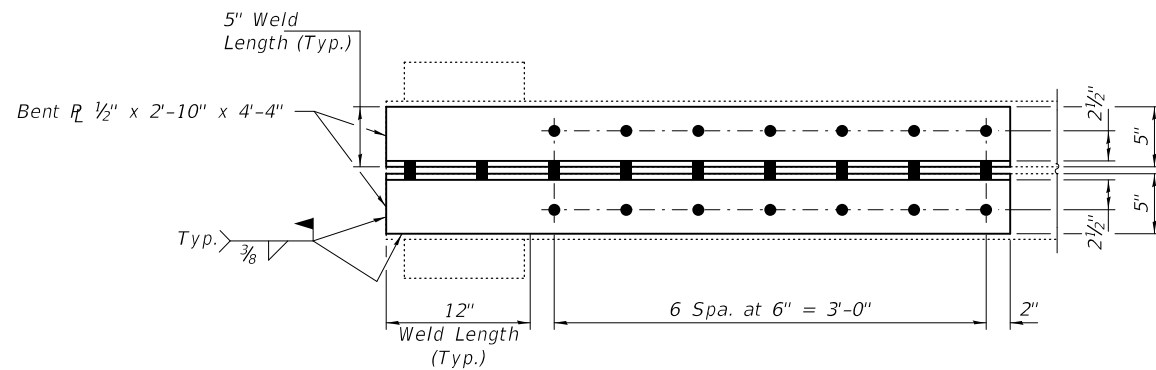
REPAIR B



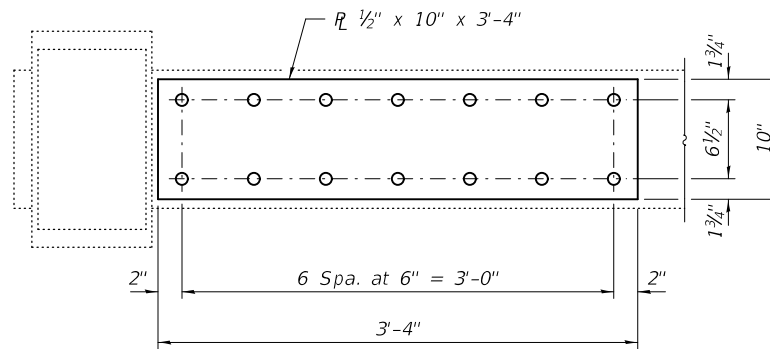
SECTION F-F



SECTION G-G



SECTION H-H



VIEW J-J

Notes:
For Clip Angle Details, see sheet 5 of 6.
Trim diaphragms as required for reinstallation.

BOLT HOLE LEGEND

- - Field drill using new steel as template.
- - Shop drill holes in new steel.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	640

DESIGNED - JOV	EXAMINED - <i>Timothy A. Dredger</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 29, 2019
CHECKED - JSB	PASSED - <i>Carl R. Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - JOV JSB		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

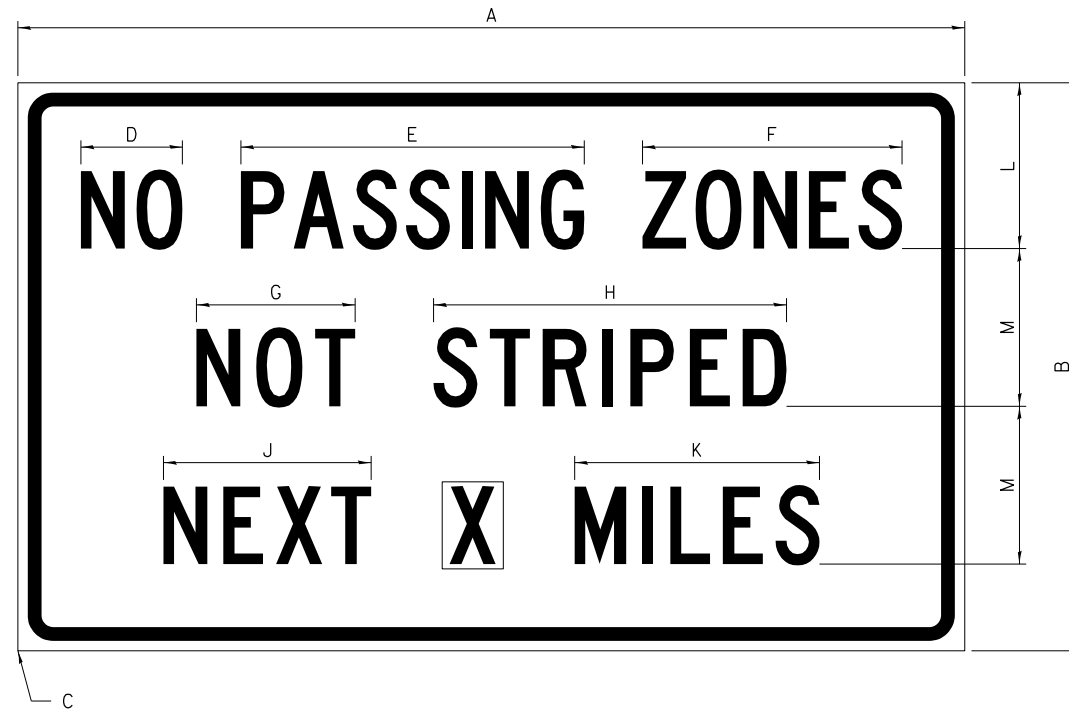
**BEAM END REPAIR DETAILS - REPAIR B
SN 008-0033**

SHEET NO. 6 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	13
			CONTRACT NO. 64N26	
		ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



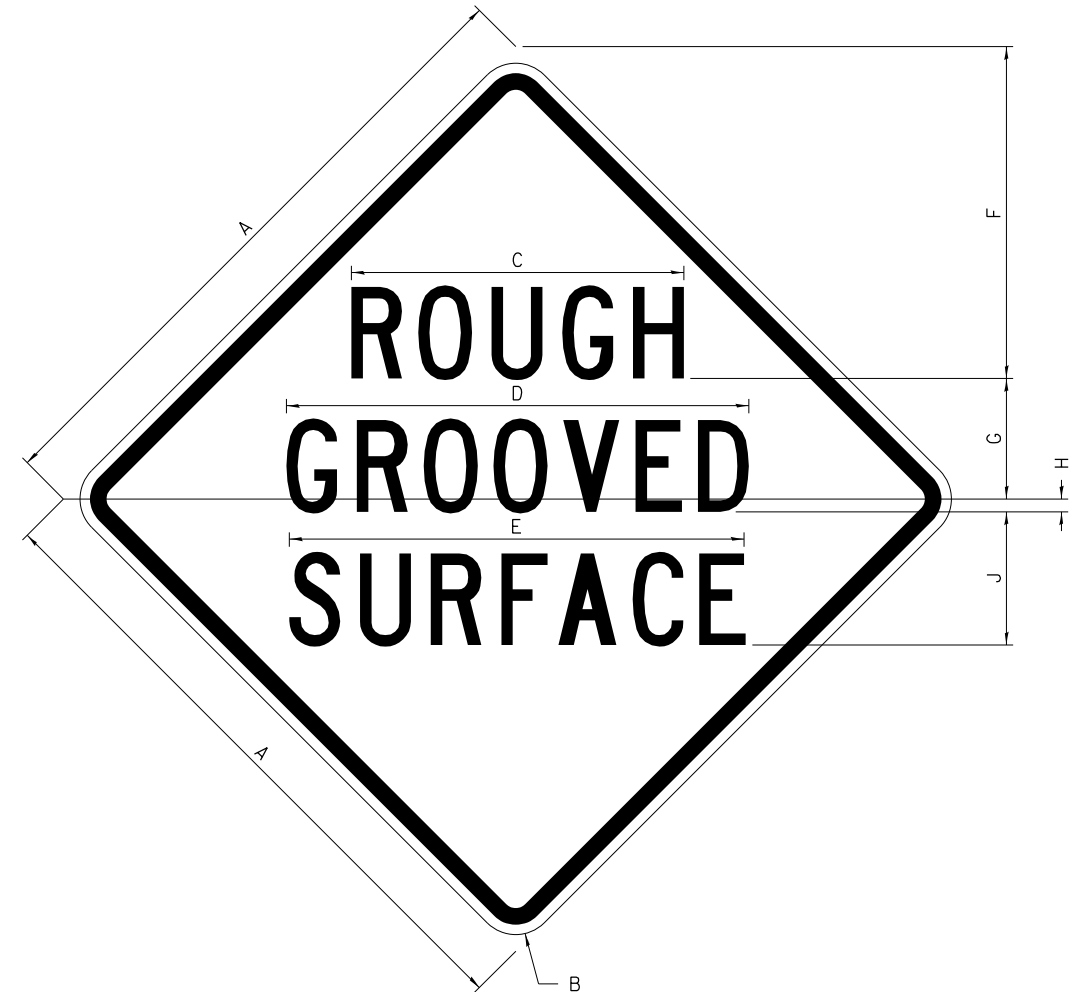
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

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.

FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - 3-02-16
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\64N26\Drawings\Development\Studies & Plans\Development\CAD\Sheets\02-64N26-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

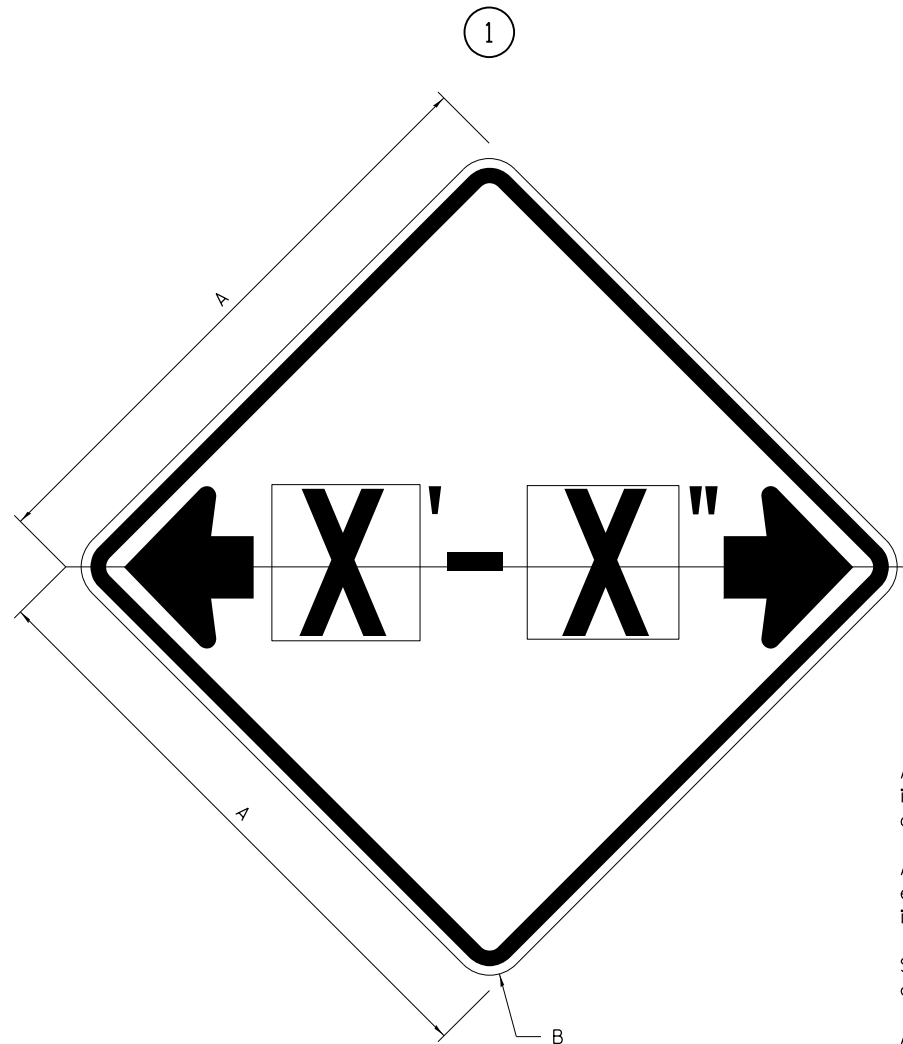
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	14
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

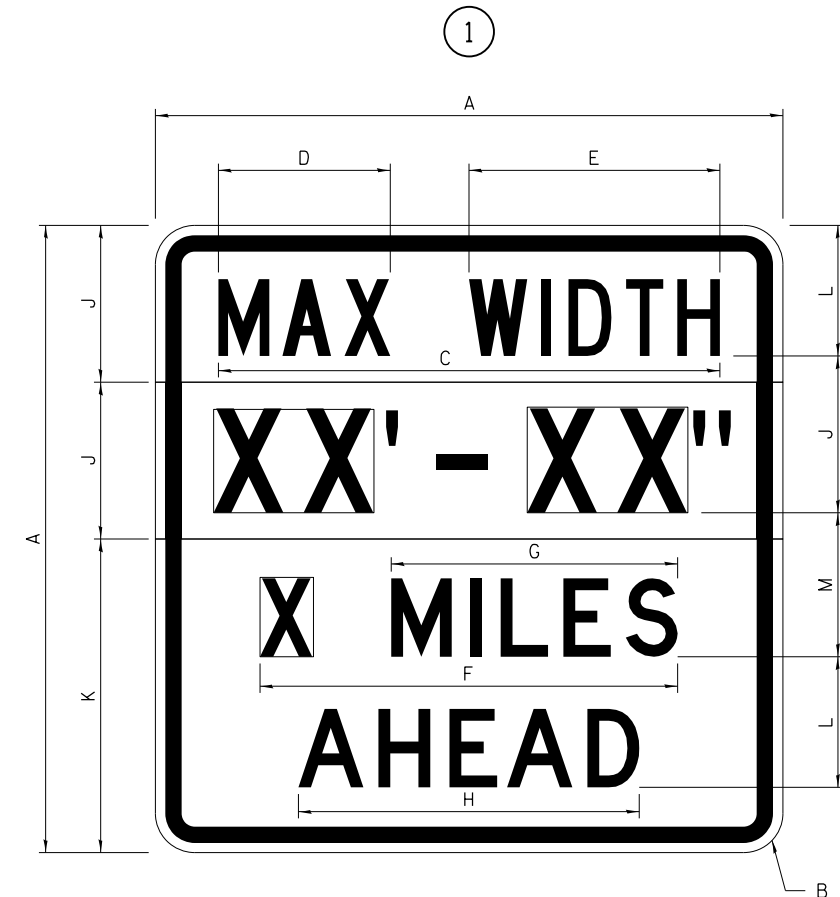
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

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 (WIDTH) BLACK WHITE FL ORANGE NON-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 =	USER NAME = bartonw	DESIGNED -	REVISED - 3-02-16
pw:\IL084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 2\Projects\64N26\Drawings\Development\Studies & Plans\REVISED\CADsheets\D2-64N26-sht-details.dgn			
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Dec-21-2018 10:57:18 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

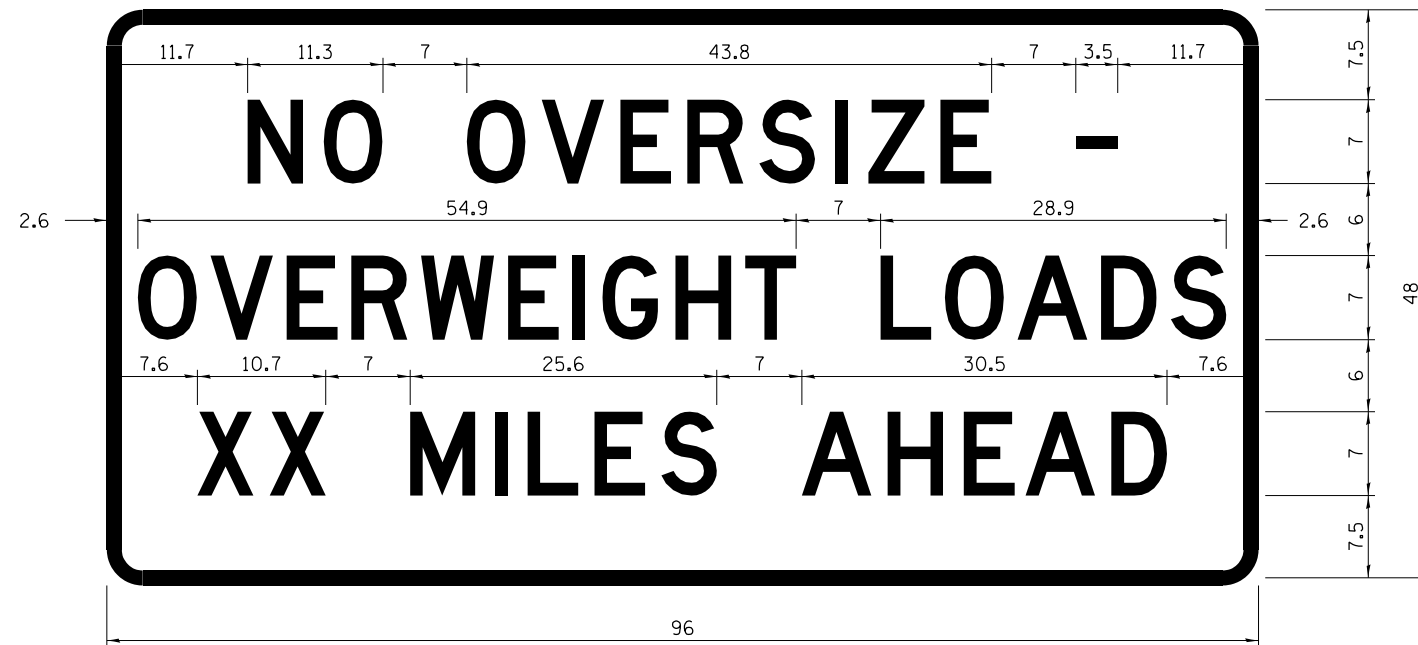
SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	15
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. 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

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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		DATE -	REVISED -
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PLOT DATE = Dec-21-2018 10:57:37 AM			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

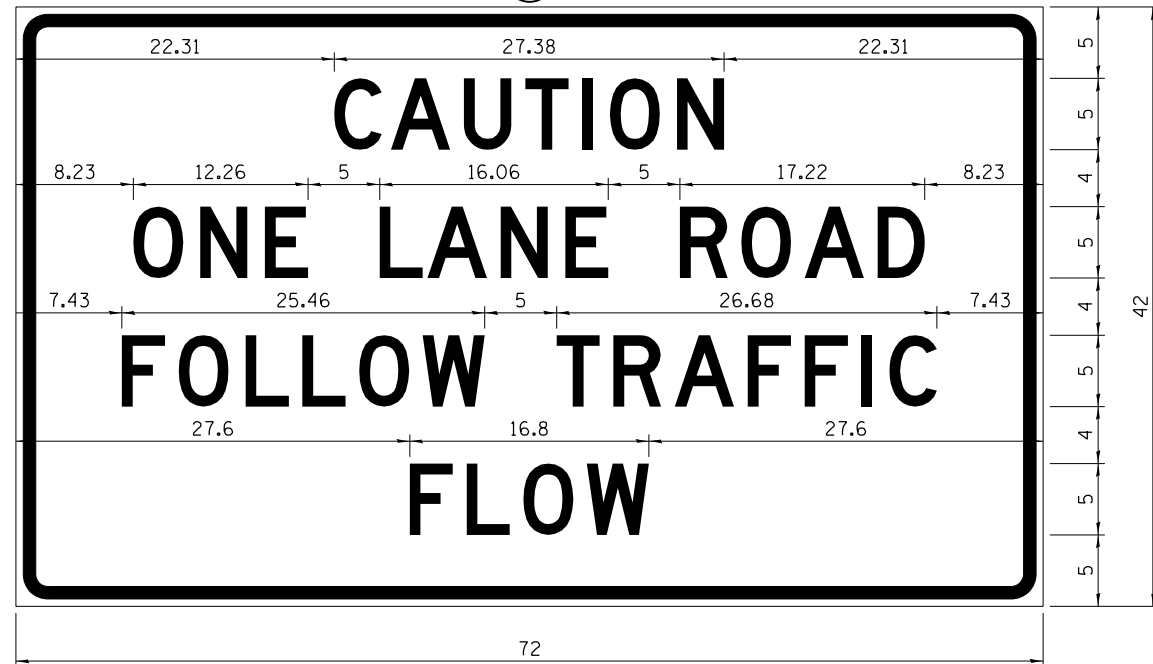
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	16
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. 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	0.62	A	0.94	U	0.94	T	0.94	I	1.17	O	1.17	N	3.36	22.31
3.36	3.36	4.18	3.36	3.04	0.78	3.52	3.36	3.36	3.04	1.17	3.52	3.36	3.36	3.36	22.31

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

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

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

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

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

27.60	F	0.94	L	0.94	O	0.93	W	27.60
3.05	3.05	3.04	3.04	3.52	3.36	4.38	4.38	27.60

Sign not to scale

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.

FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - 3-02-16
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		DATE -	REVISED -

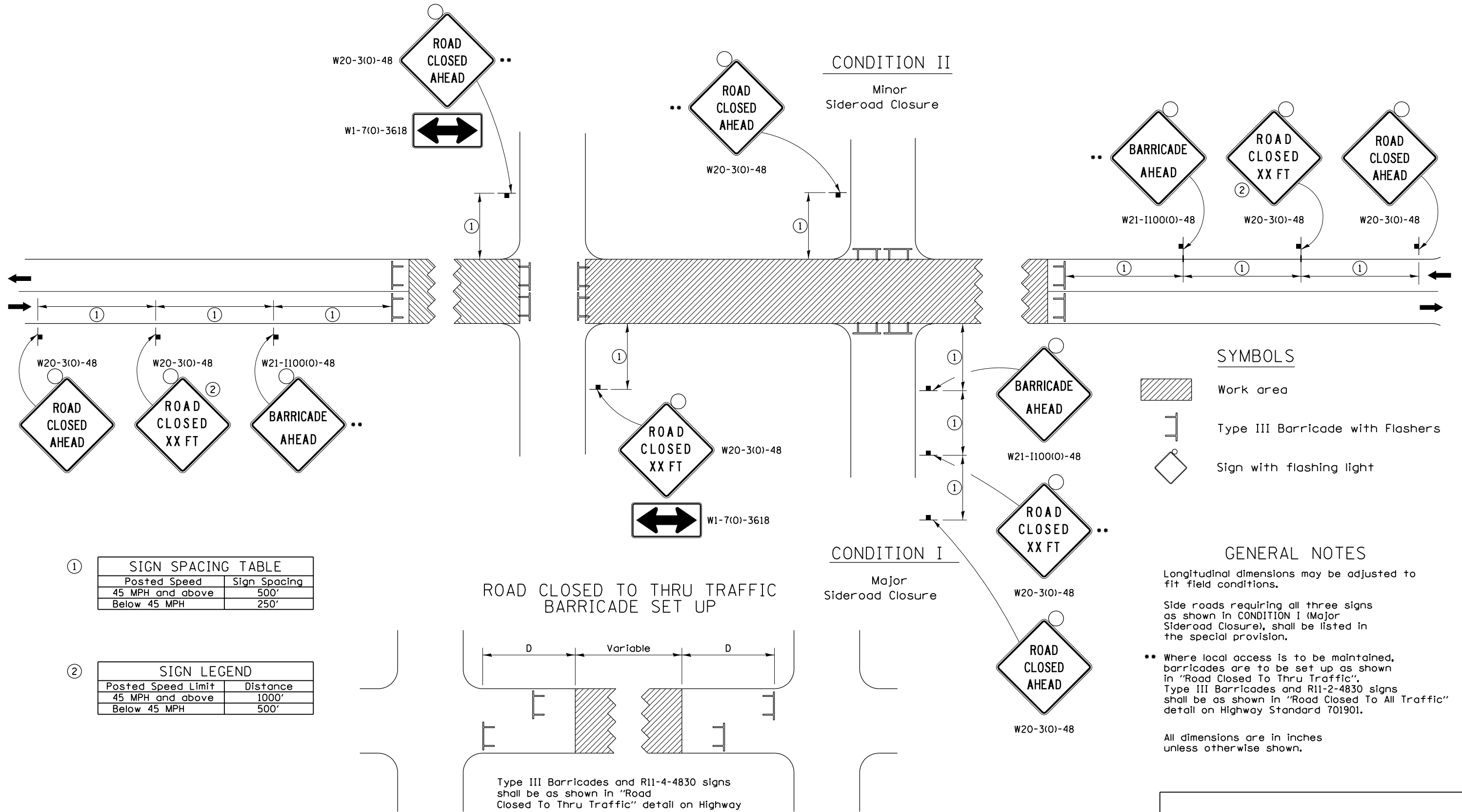
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	17
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



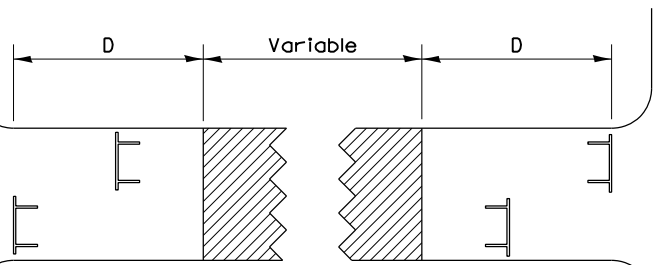
①

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

②

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

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



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

SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

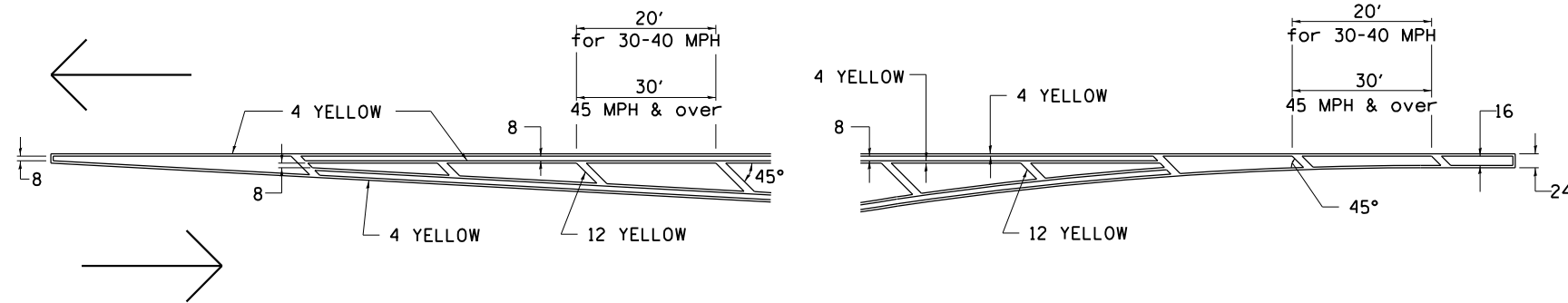
GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.
- ** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.
- All dimensions are in inches unless otherwise shown.

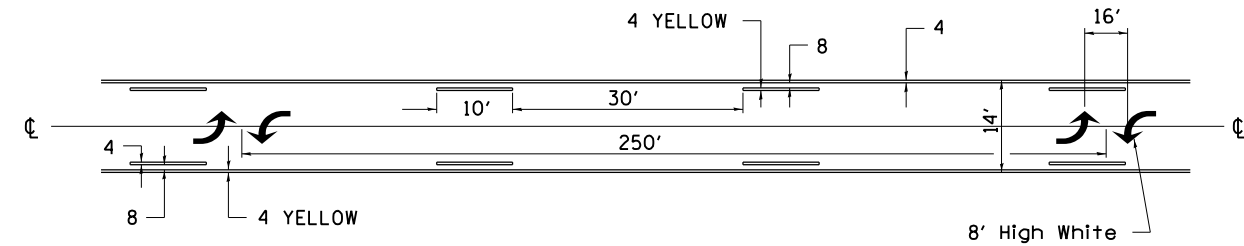
TYPICAL APPLICATION FOR ROAD CLOSURE

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

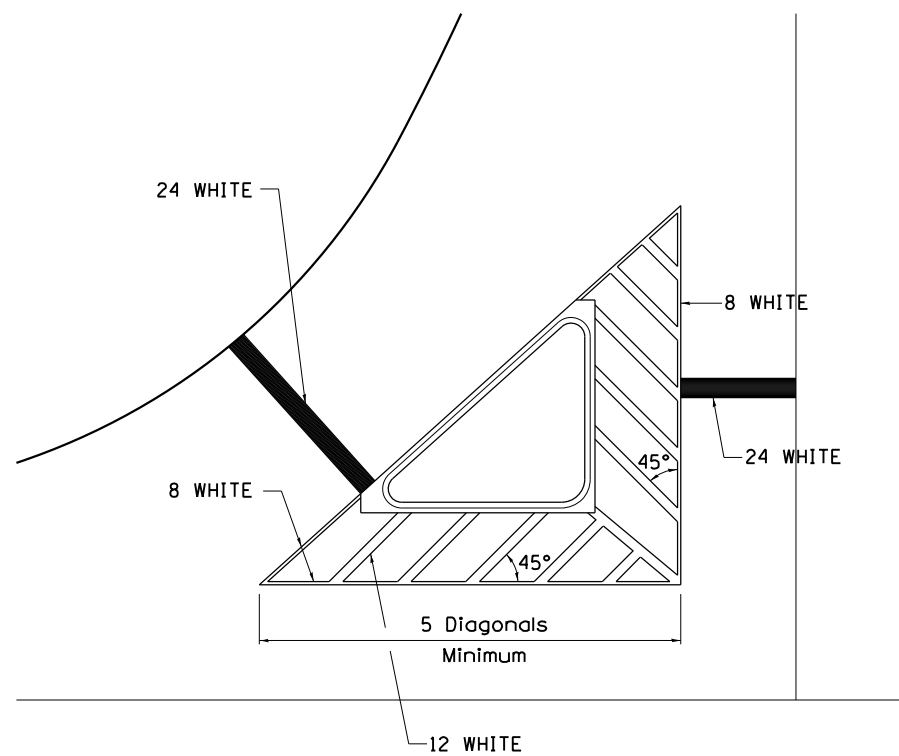


MEDIAN PAVEMENT MARKING



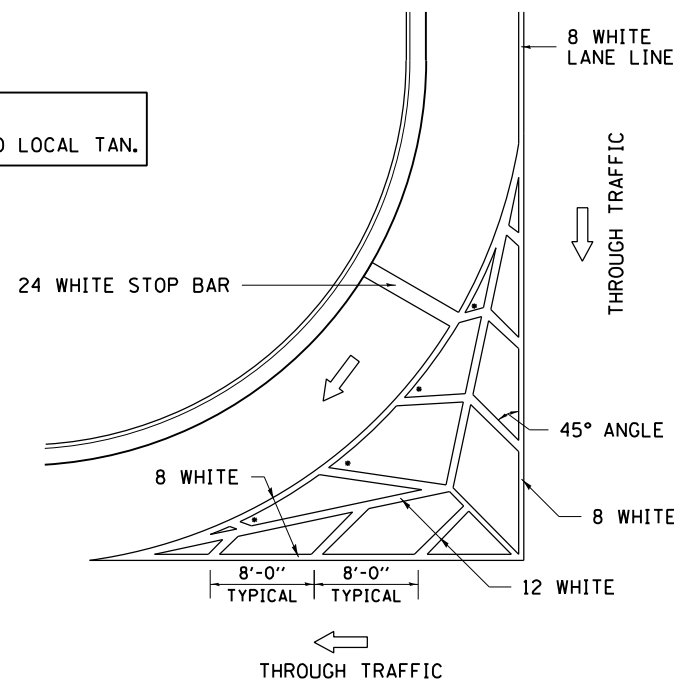
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



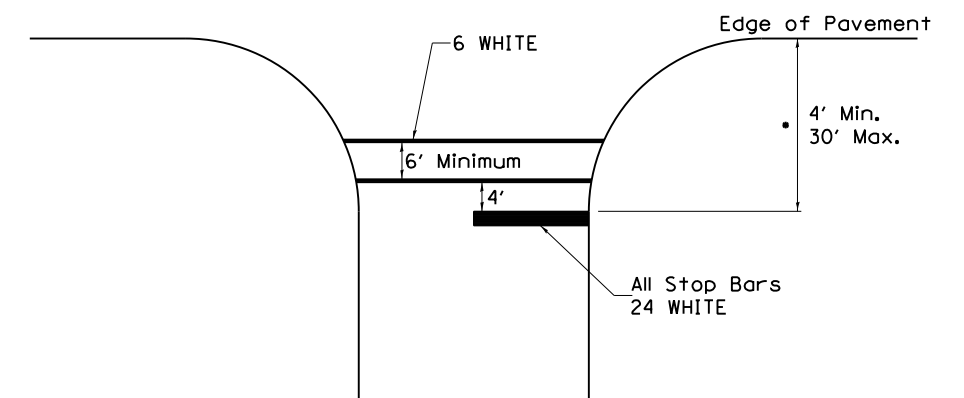
TYPICAL MARKING FOR PAINTED ISLANDS

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.

FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED - 6-27-14
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 2\Projects\64N26\Drawings\Development\Studies & Plans\Development\CADsheets\64N26-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

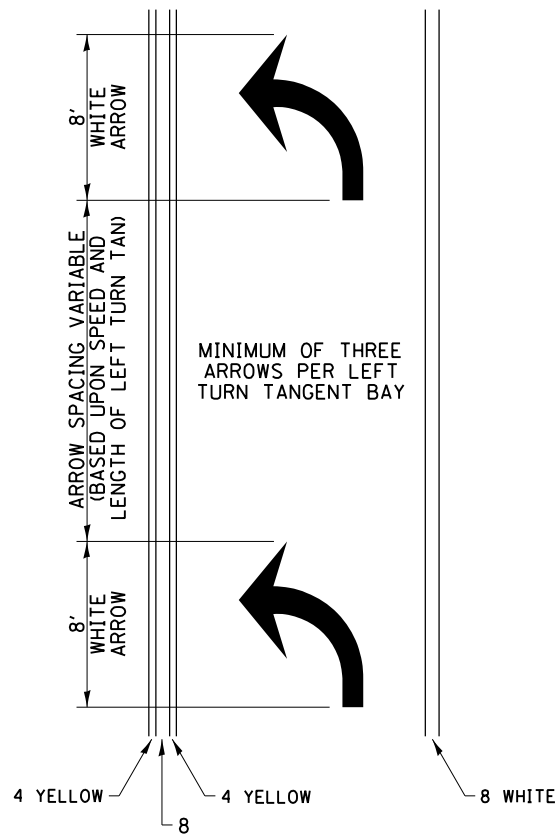
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	19
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

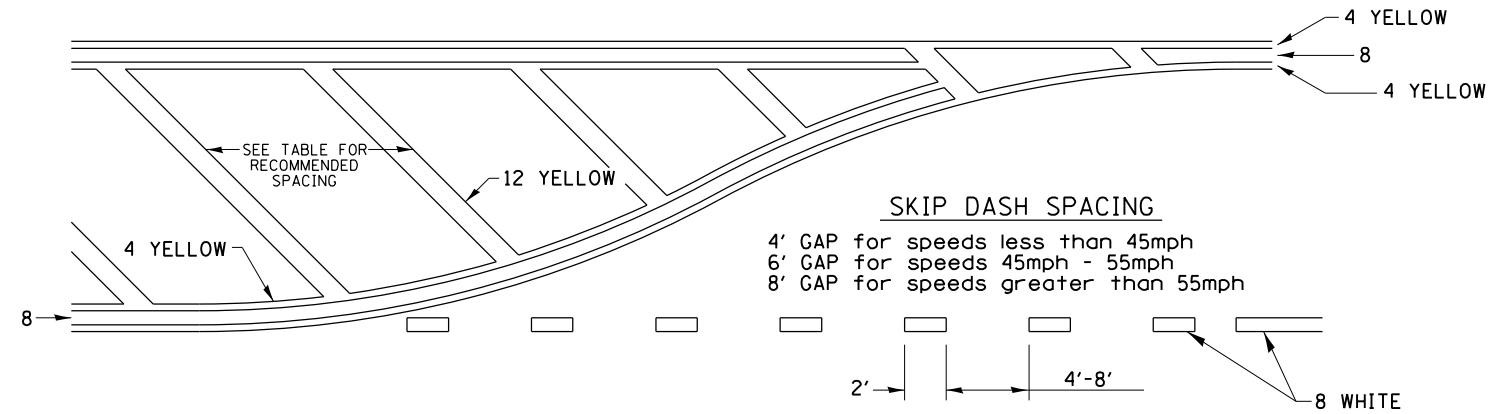
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

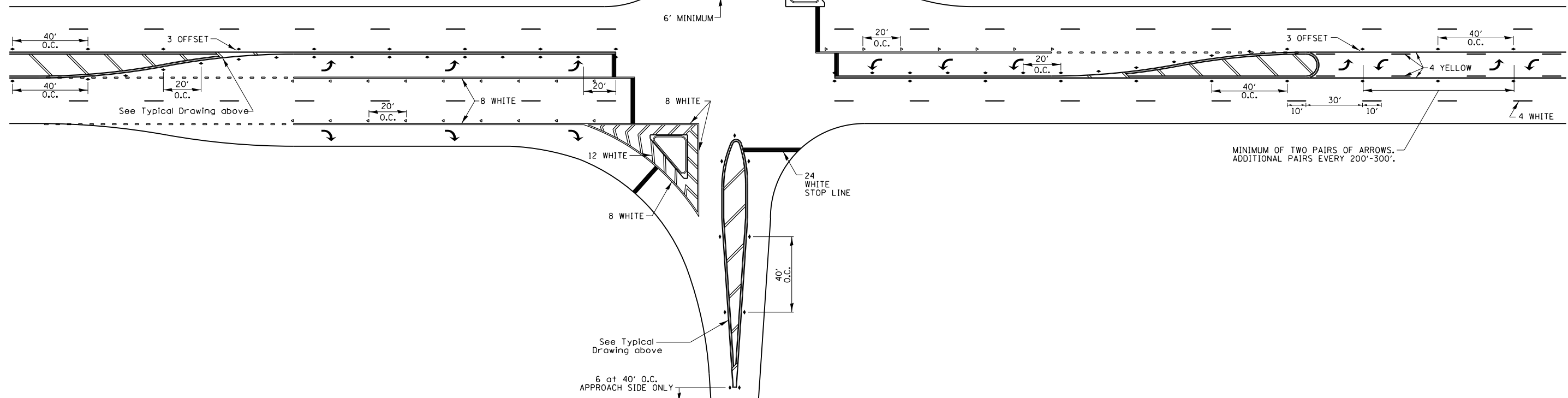
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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



FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - 6-27-14
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PLOT DATE = Dec-21-2018 10:58:49 AM			

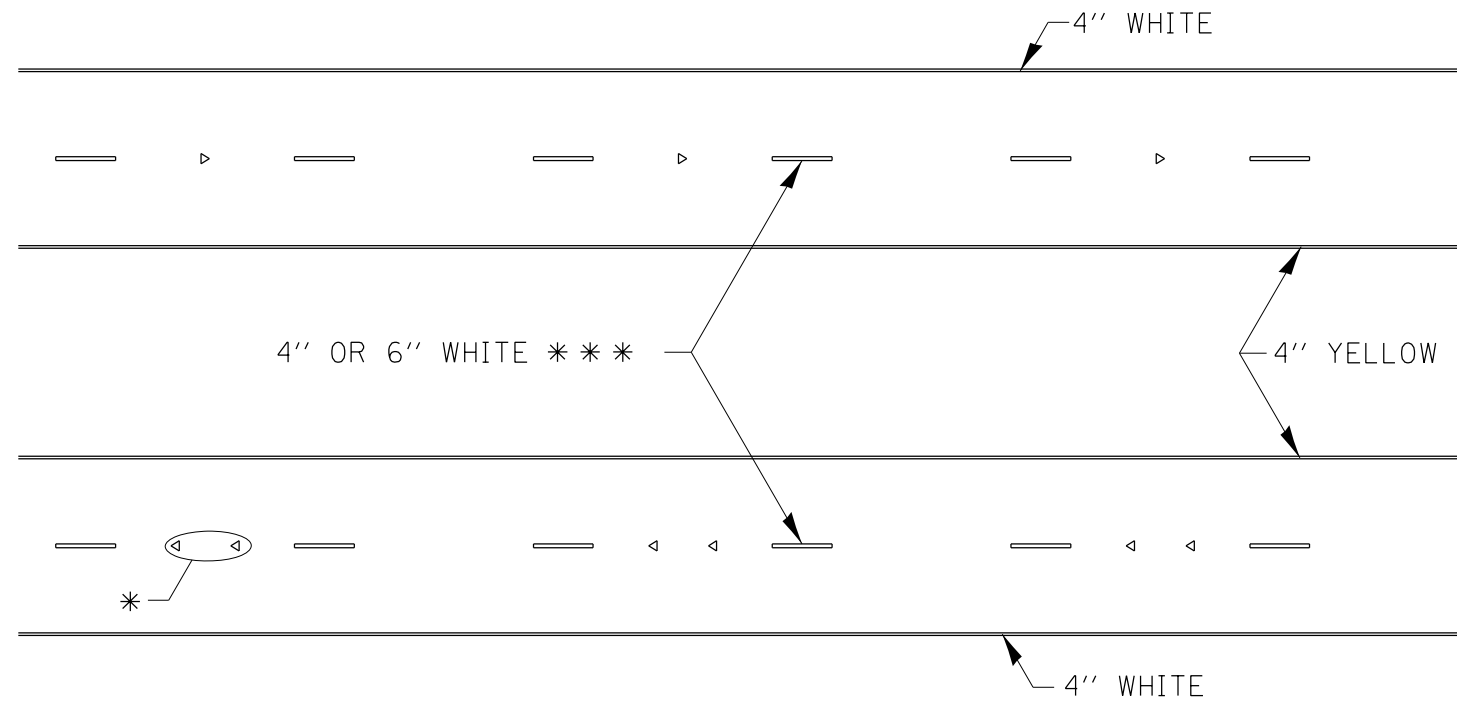
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

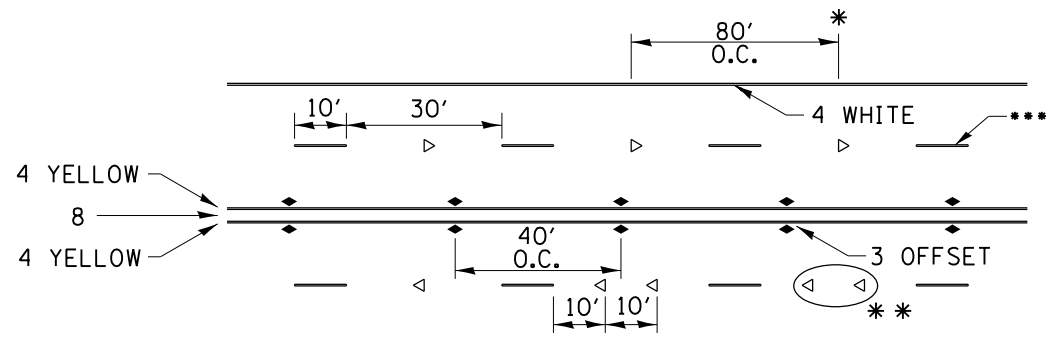
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	20
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



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

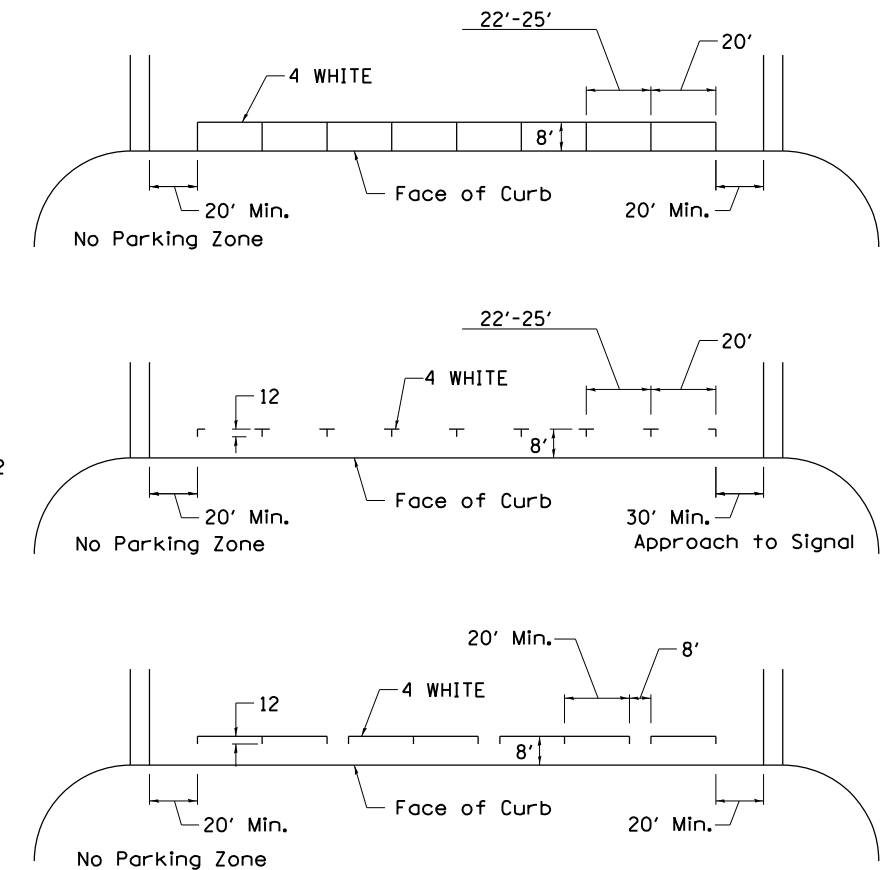
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

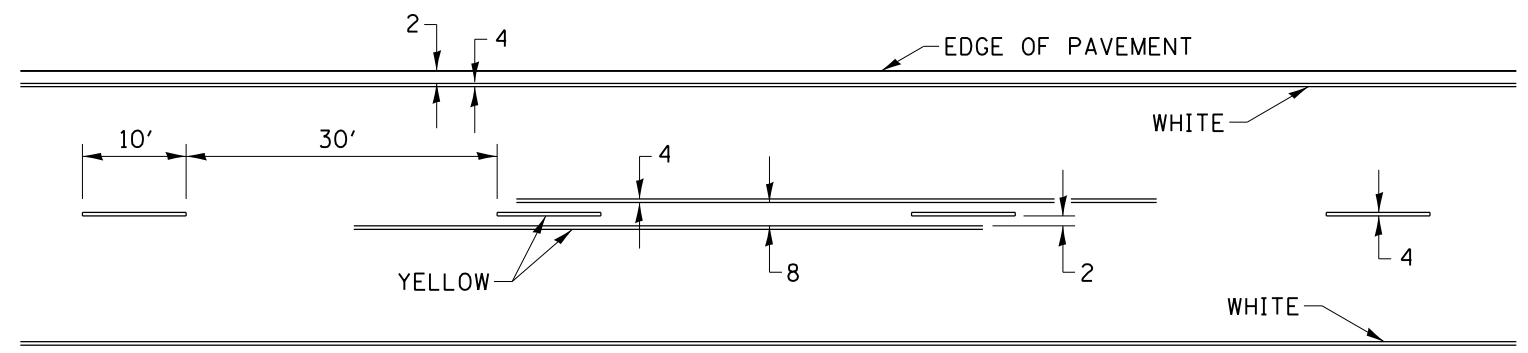
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - 6-27-14
pw:\IL\084EBID\INTEG.illinois.gov\PIW001\Documents\IDOT Offices\District 2\Projects\64N26\Drawings\Development\Studies & Plans\Development\CAD\sheet\64N26-sht-details.dgn		CHECKED -	REVISED - 11-28-12
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	D2 BDR 2019-2	CARROLL	21	21
CONTRACT NO. 64N26				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				