

1-17-14 LETTING ITEM 035

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	1
ILLINOIS CONTRACT NO. 64J89				

*9 45=14

D-92-074-13

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



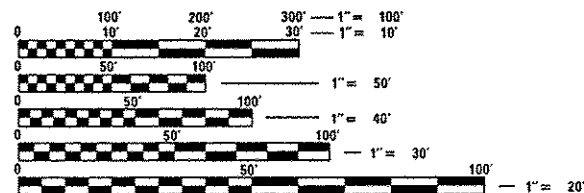
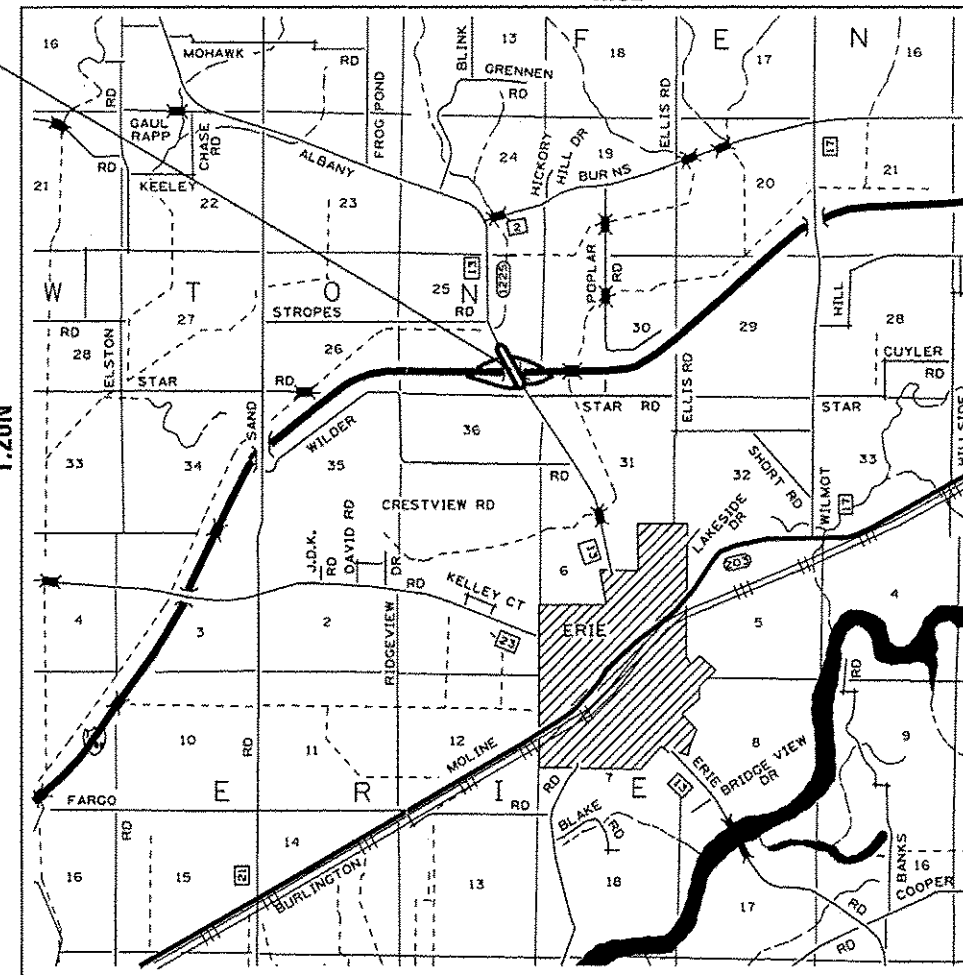
WHITESIDE COUNTY - NEWTON TOWNSHIP - SECTION 25

F.A.I. ROUTE 88 (I-88)
 SECTION D2 BRIDGE PAINTING 2014-2

TYPE of IMPROVEMENT
 WHITESIDE COUNTY

C-92-119-13 R.3E

SN 098-0057



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: DAVID DOSS (815) 284-5416
 PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64J89

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 10-9 2013
Paul A. Doeten
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 6 2013
John D. Baranzelli, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 2013
Omer Osman, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS / STATE STANDARDS / GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-5 TRAFFIC CONTROL PLAN FOR SN 098-0057
- 6-8 TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
- 9 PAINTING DETAILS (DIST STD 44.1)
- 9A-9E. EXISTING STRUCTURE PLANS

STATE STANDARDS

- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701400-07 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-08 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-09 LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
- 701411-08 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701426-06 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
- 701901-03 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS, SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 1.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 1.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 1.

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.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATOR WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD AND SPECIFICATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

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.

THE SSPC OPI & QP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

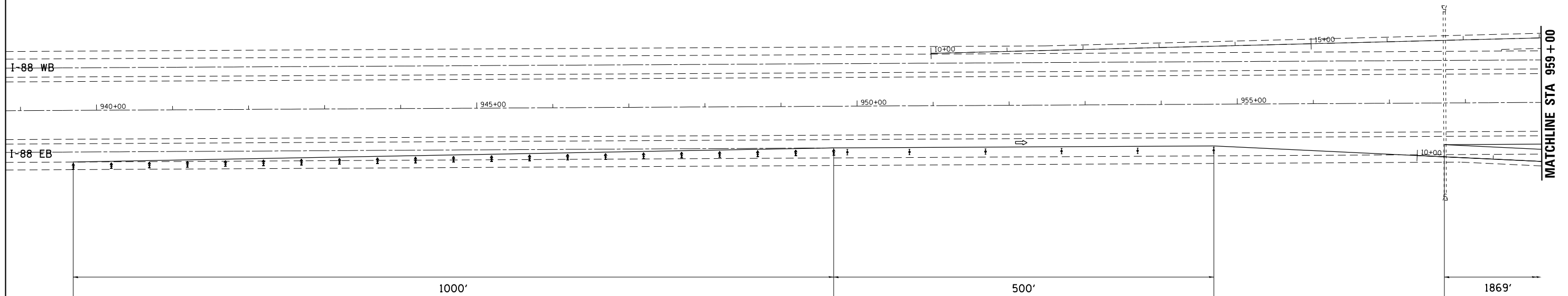
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Or:\BR\Draw\Whiteside\64J89 Cleaning & Painting SN 098-0057 & SN 099-0043\CADD\028	ORAWNlgn -	REVISED -	REVISED -					88	02 BRIDGE PAINTING 2014-	WHITESIDE	9	2
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 64J89							
Default	PLOT DATE = Mon Oct 07 08:25:47 2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	100% STATE	100% STATE
			TOTAL QUANTITY	WHITESIDE COUNTY 0014
67100100	MOBILIZATION	L SUM	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70300220	TEMPORARY PAVEMENT MARKING LINE 4"	FOOT	15,716	15,716
70400100	TEMPORARY CONCRETE BARRIER	FOOT	457	457
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,371	1,371
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3	3
78300100	PAVEMENT MARKING REMOVAL	SQ. FT	5,240	5,240
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

13

TRAFFIC CONTROL PLAN FOR SN 098-0057



70400100 TEMPORARY CONCRETE BARRIER

STAGE I 457 FT

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STAGE II 457 FT
STAGE III 457 FT
STAGE IV 457 FT

TOTAL 1,371 FT

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STAGE I 1 EACH

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STAGE II 1 EACH
STAGE III 1 EACH
STAGE IV 1 EACH

TOTAL 3 EACH

70300220 TEMPORARY PAVEMENT MARKING LINE 4"

STAGE I 4,196 FT
STAGE II 3,662 FT
STAGE III 3,662 FT
STAGE IV 4,196 FT






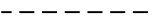



TOTAL 15,716 FT

78300100 PAVEMENT MARKING REMOVAL

STAGE I 1,399 SQ FT
STAGE II 1,221 SQ FT
STAGE III 1,221 SQ FT
STAGE IV 1,399 SQ FT

TOTAL 5,240 SQ FT

SYMBOLS

-  Arrow board
-  Work area
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade or drum with steady burn monodirectional light
-  Temporary concrete barrier
-  Monodirectional barrier wall/guardrail marker
-  Impact attenuator
-  Drums with steady burning monodirectional light

NOTES

- ① Reflectorized temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Vertical panels at 7.6 m (25') centers with steady burning monodirectional lights.

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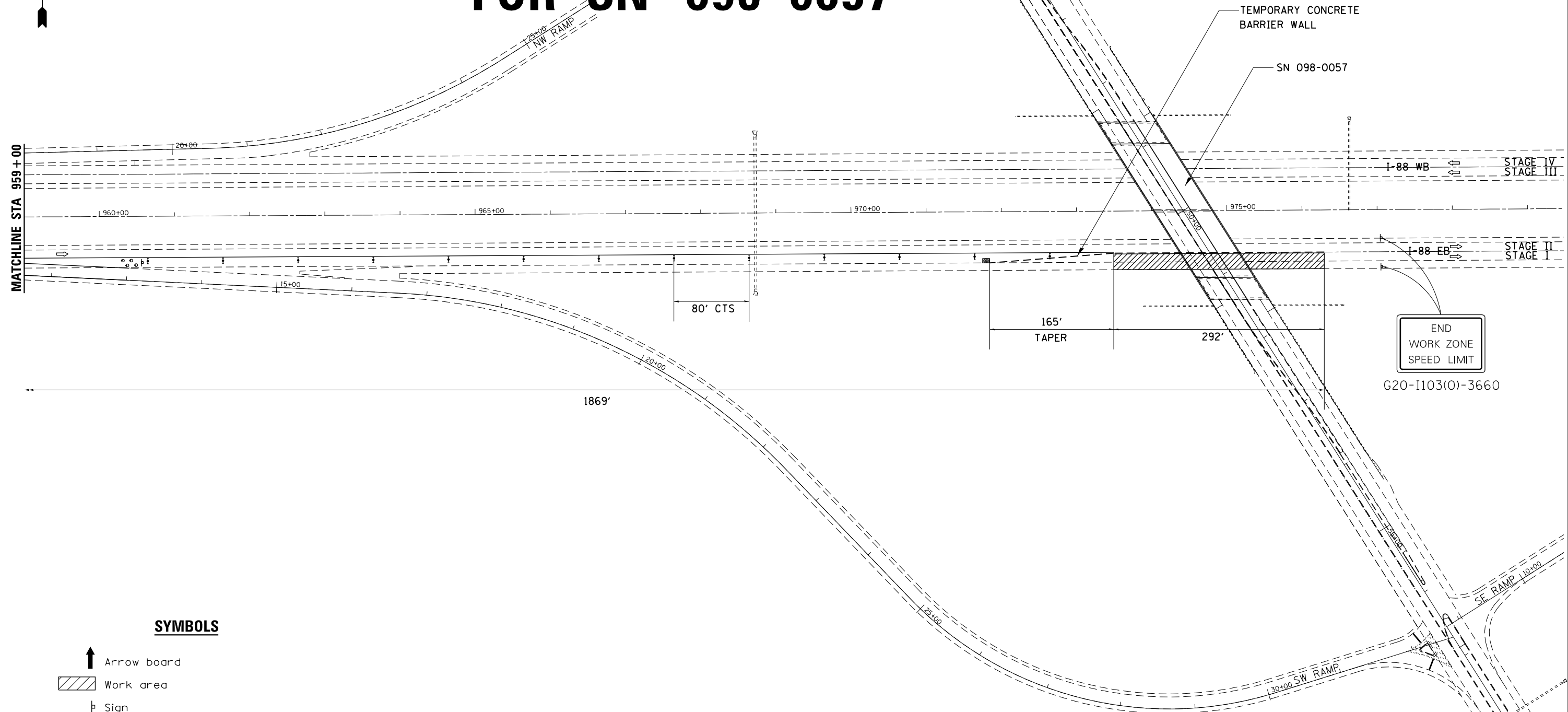
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN FOR SN 098-0057
STAGES I, II, III, IV

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J89	

TRAFFIC CONTROL PLAN FOR SN 098-0057



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator
- Drums with steady burning monodirectional light

NOTES

- ① ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
- ② Vertical panels at 7.6 m (25') centers with steady burning monodirectional lights.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

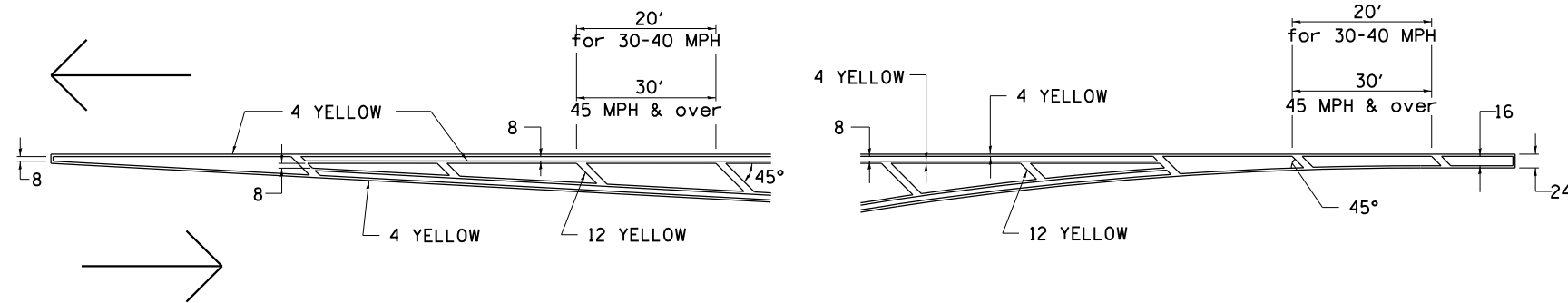
**TRAFFIC CONTROL PLAN FOR SN 098-0057
STAGES I, II, III, IV**

SCALE: SHEET OF SHEETS STA. TO STA.

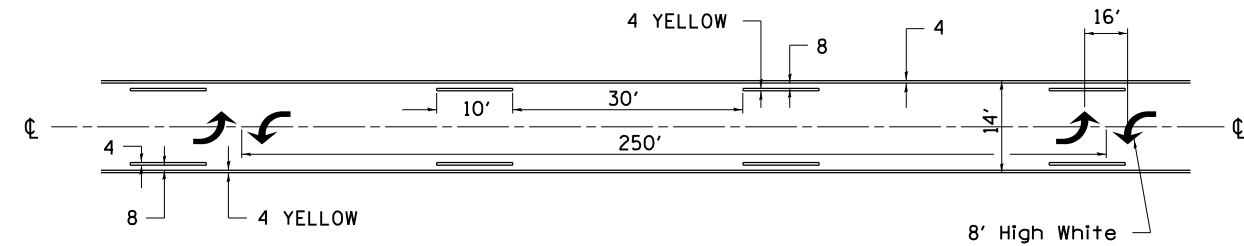
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88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	5
CONTRACT NO.			64J89	
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

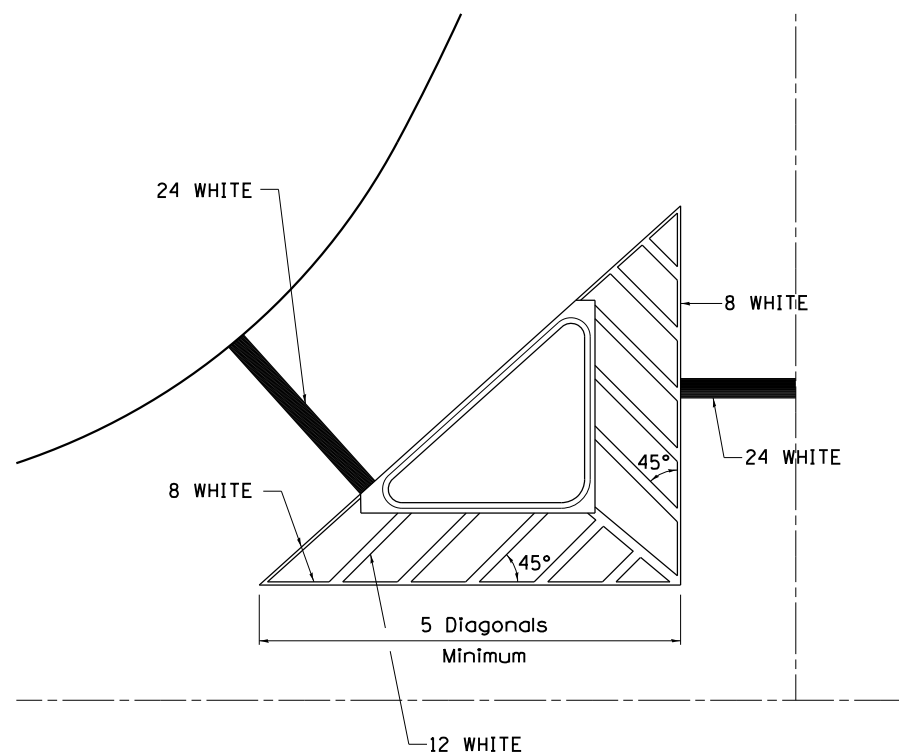


MEDIAN PAVEMENT MARKING

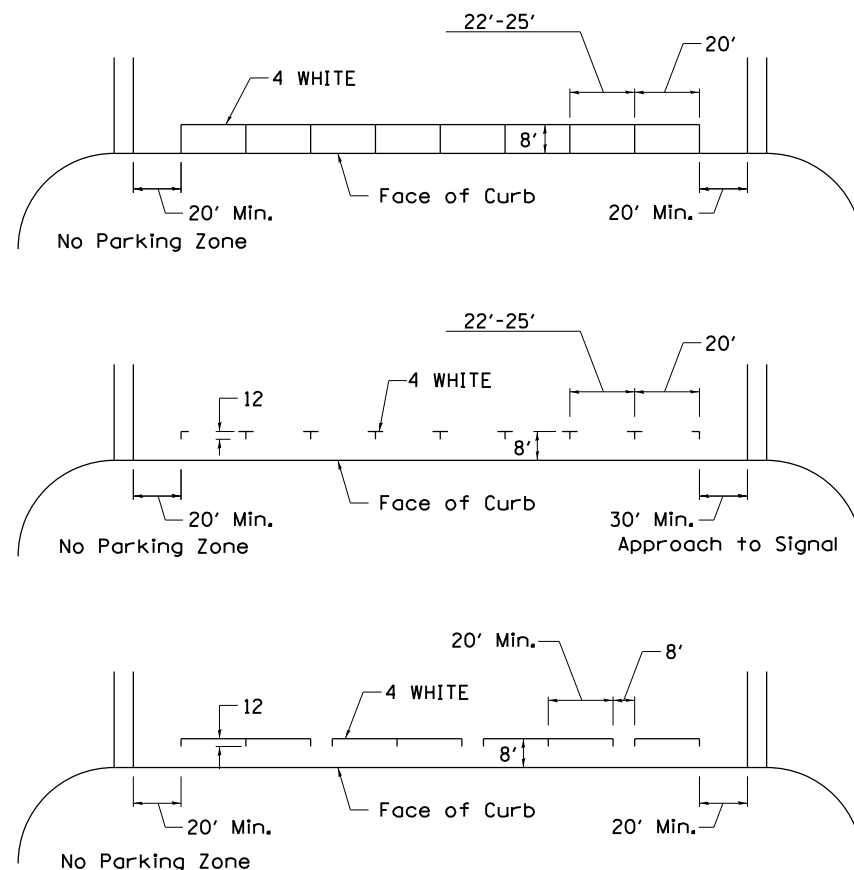


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

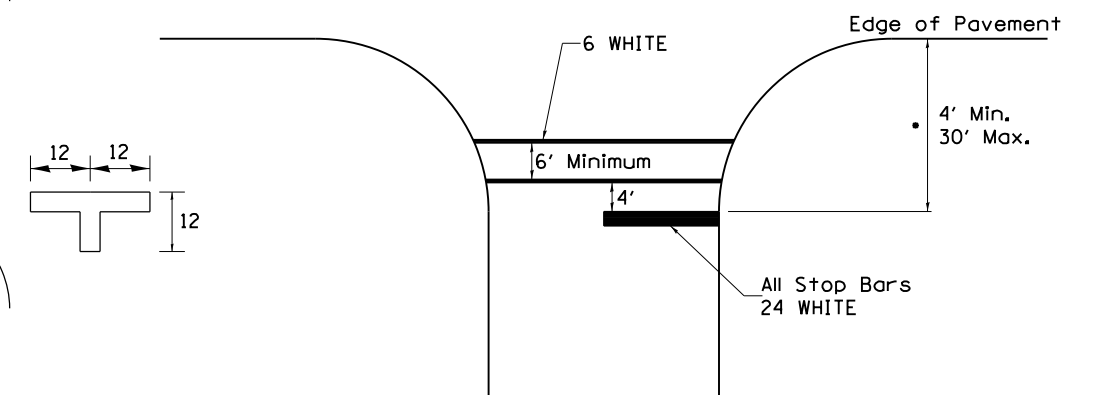


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

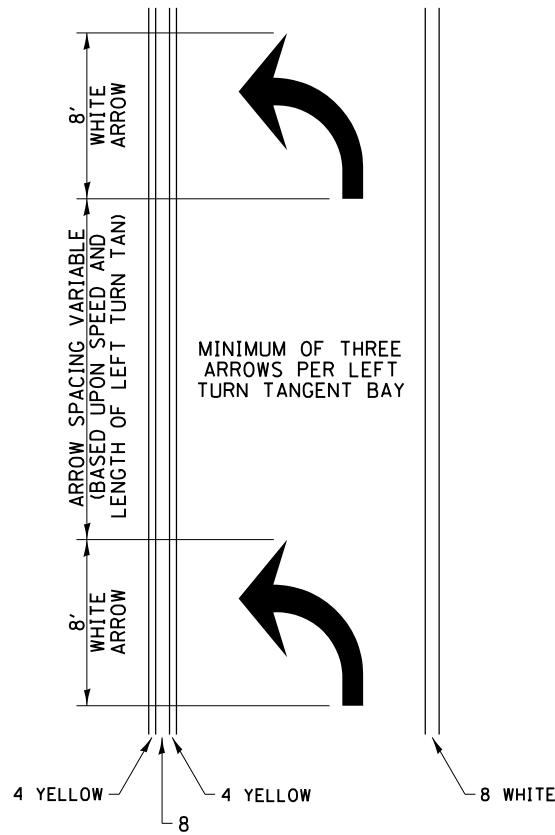


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 3-05-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Mon Oct 07 08:26:55 2013	DATE -	REVIS	REVIS		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

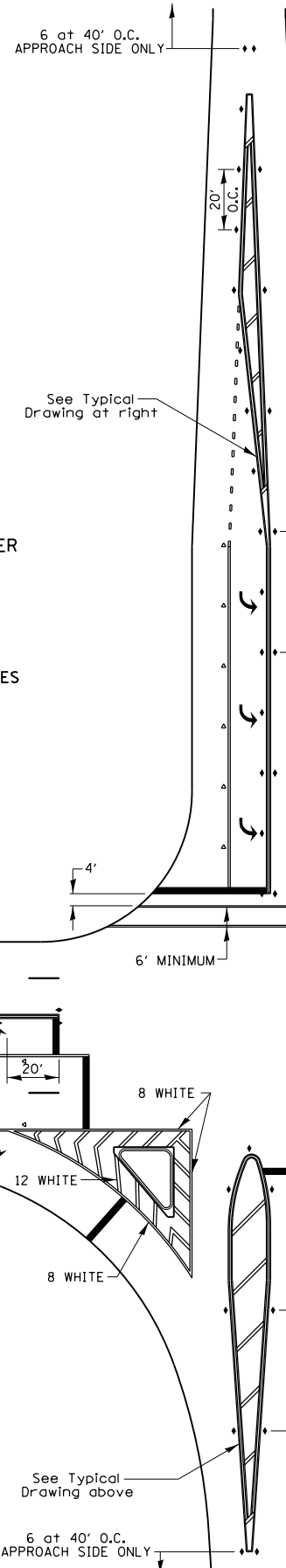
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

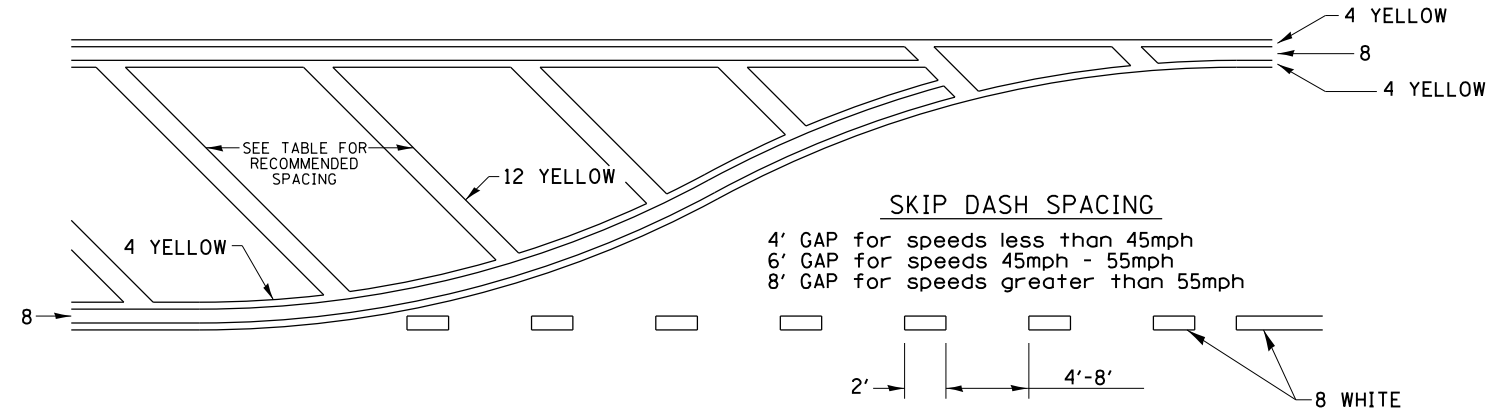


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



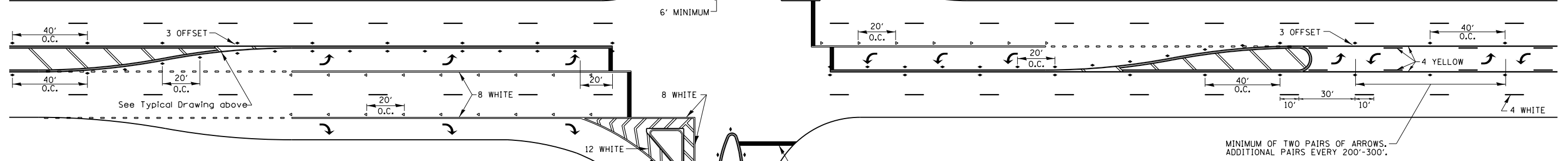
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



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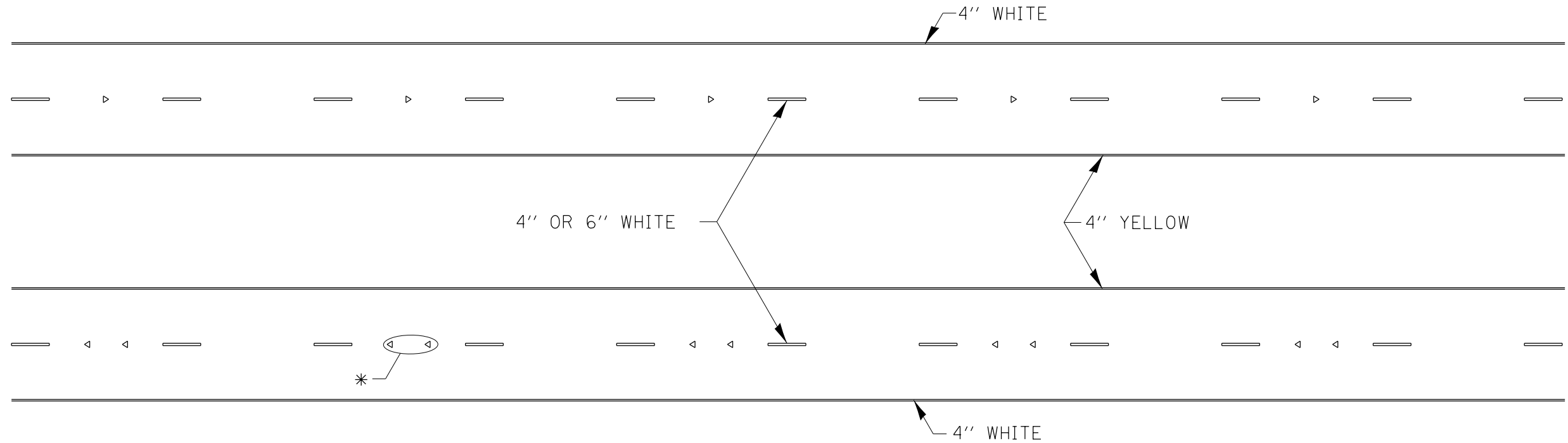
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

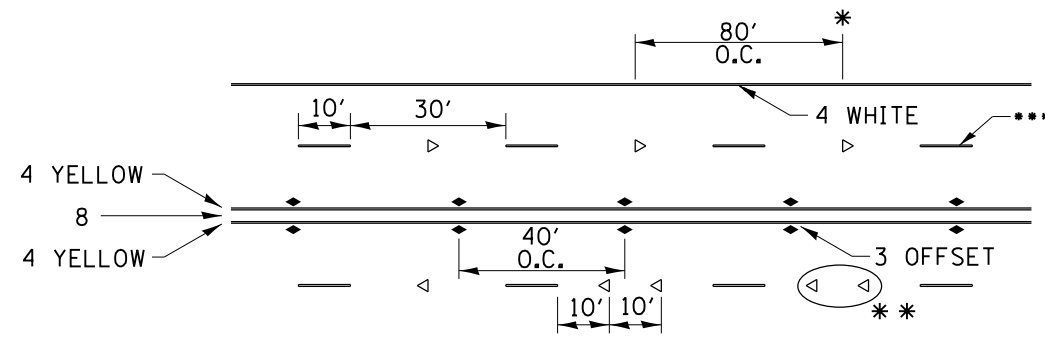
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J89	

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



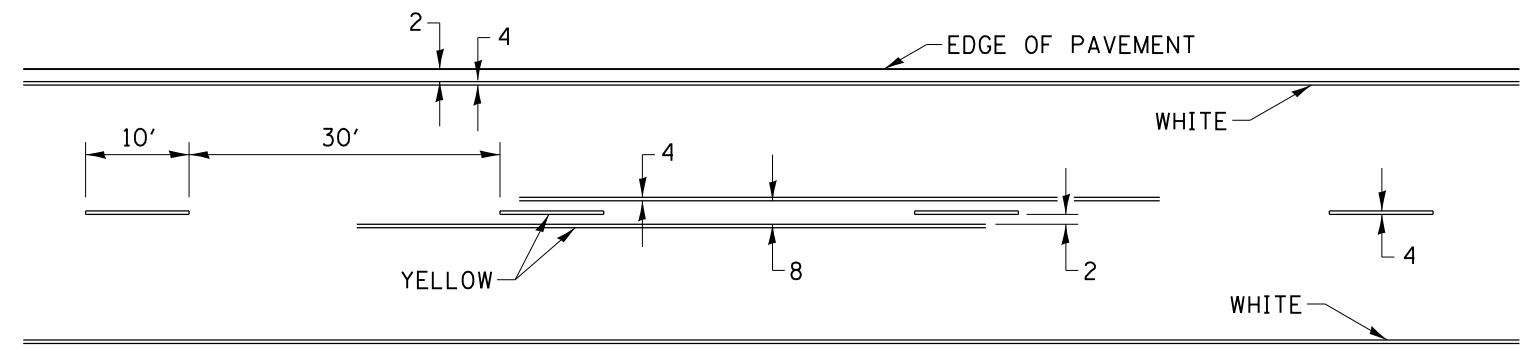
SYMBOLS

- * 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 PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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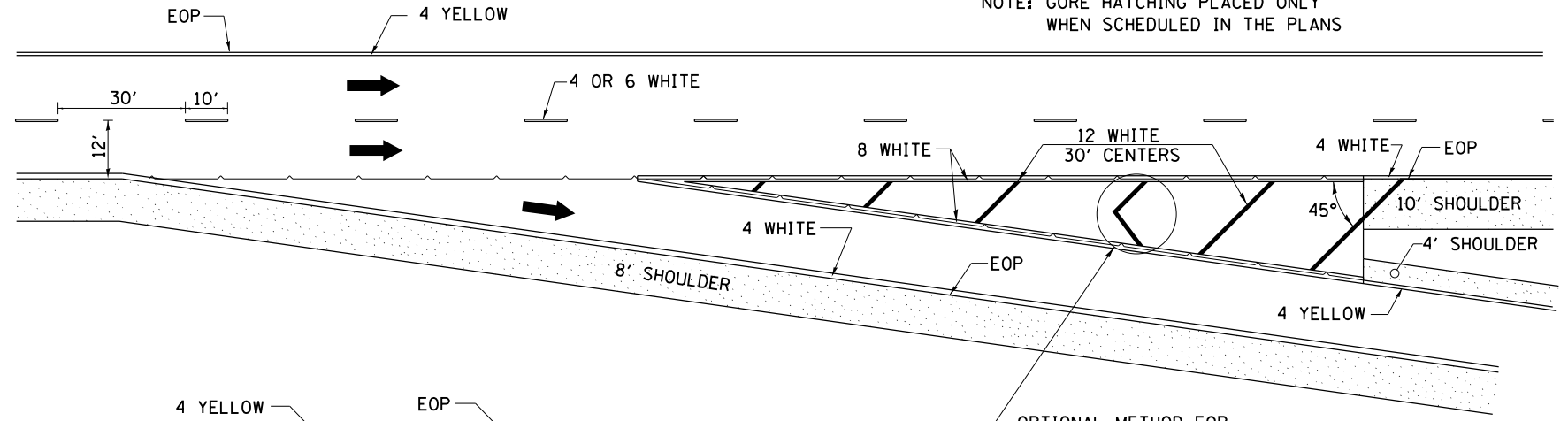
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88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J89	

PAINING DETAILS

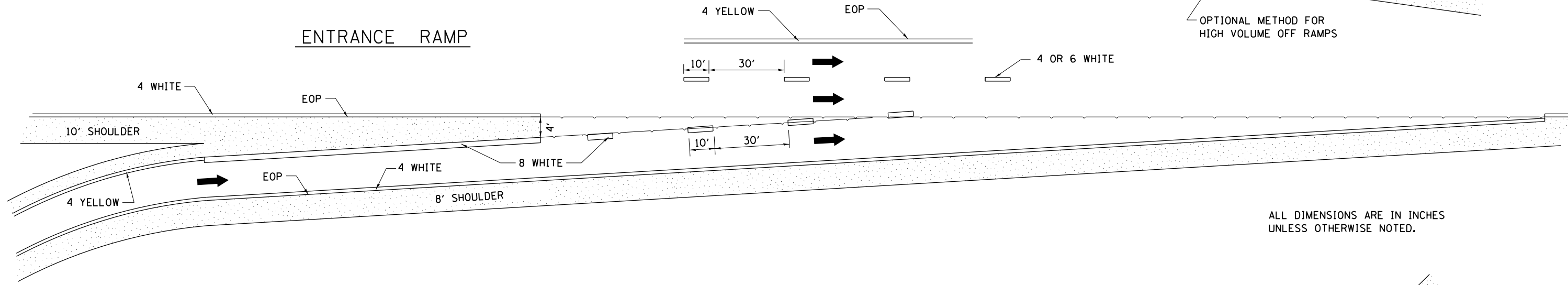
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

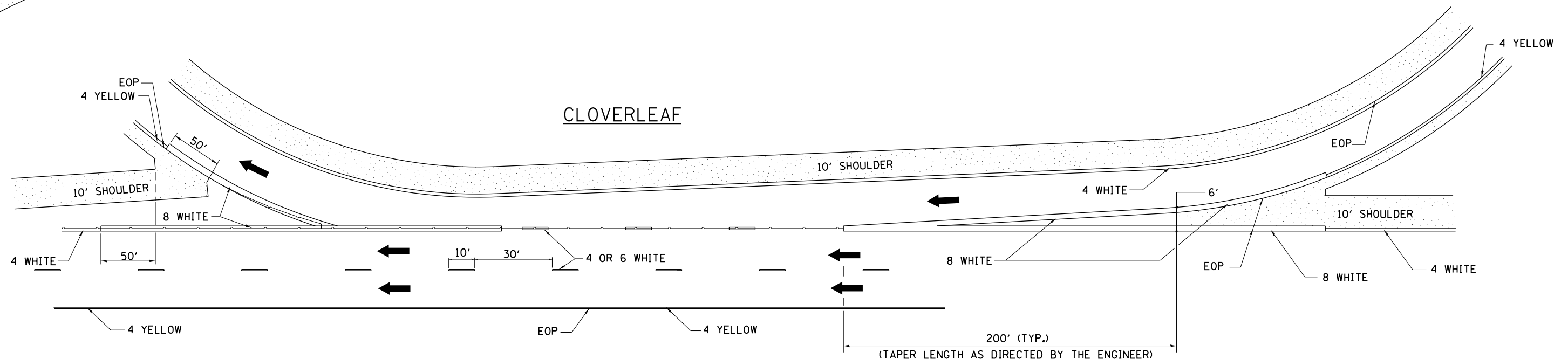


ENTRANCE RAMP



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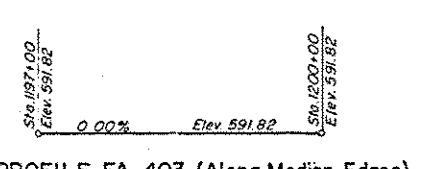
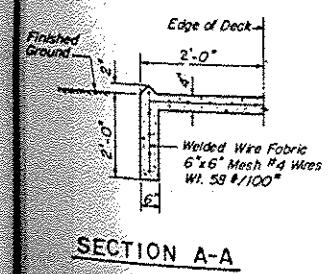
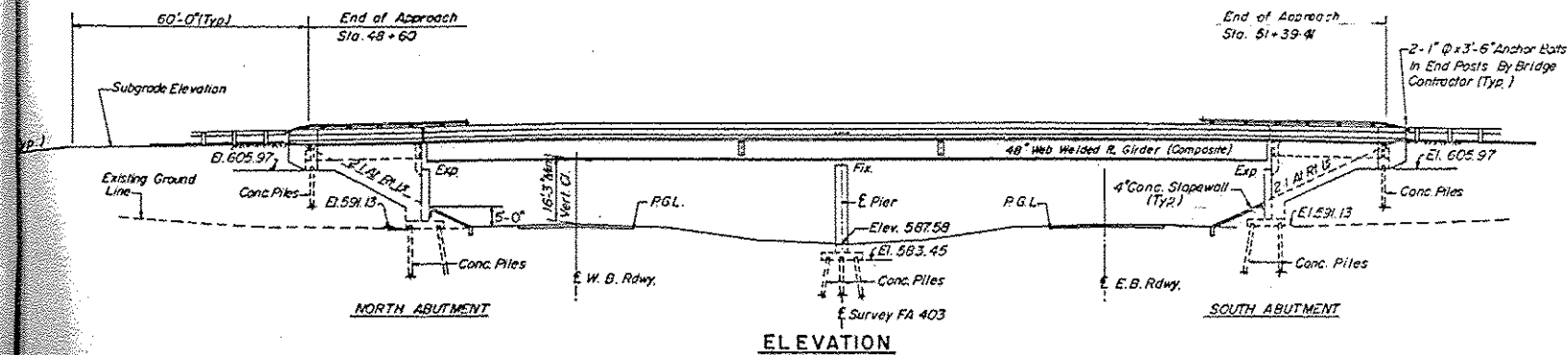
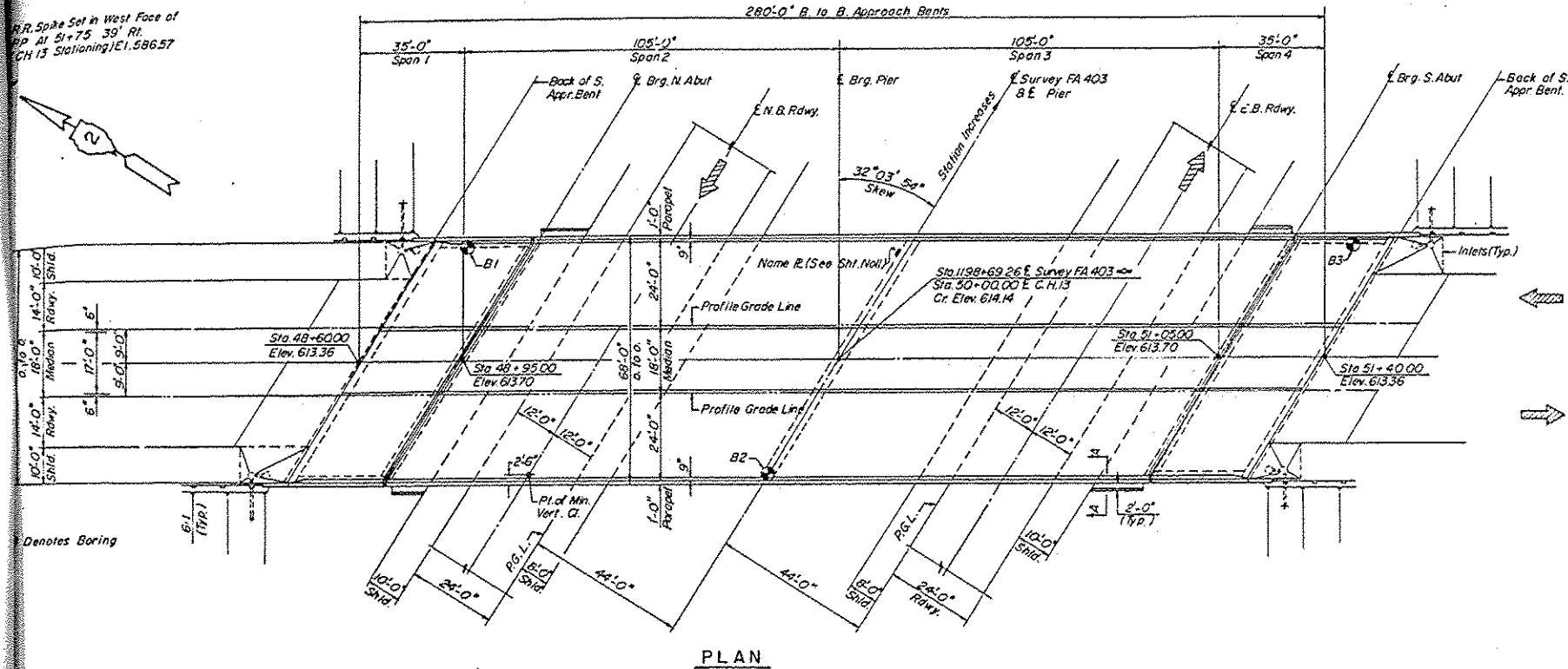
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

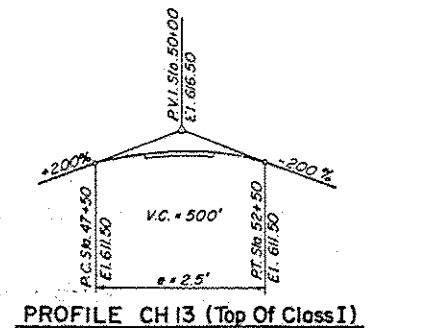
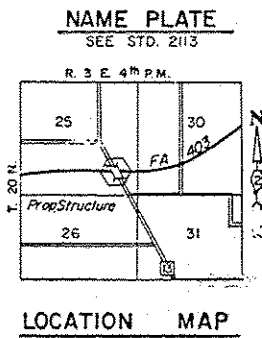
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64J89	

SHEET NO. 1	16 SHEETS		
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS
195-403	WHITESIDE	LLS	123



STATION 198 + 69.26
 BUILT 19 BY
 STATE OF ILLINOIS
 FA 403 SECTION 195-1HB-3
 FA PROJECT
 LOADING HS 20-44



GENERAL NOTES:

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Field connections shall be bolted using high strength bolts. Bolts 2 1/2" diam. open holes 1/16" diam., unless otherwise noted.

The basic lead silico chromate paint system shall be used for shop & field painting of Structural Steel.

Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier support. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor Bolts shall be set before putting diaphragms over supports.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 # per 100 sq. ft.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The Contractor shall drive two test piles in a permanent location, one each at the North Abutment and at the Pier, as directed by the Engineer before ordering the remainder of the piles.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Water Proofing Membrane System is applied.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/16 inch. Adjustment shall be made after grinding the surface or by shimming the bearing. Two 1/8" adjusted shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to other plates of shims.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders.

ITEM	UNIT	SUPER STRUCT	SUB STRUCT	TOTAL
Structure Excavation	Cu. Yds.	—	650	650
Bituminous Concrete Surface Course, Class 1	Tons	121	—	121
Protective Coat	Sq. Yds.	2230	—	2230
Class X Concrete	Cu. Yds.	563.9	569.9	1233.8
Structural Steel	L. Sum	L.S.	—	L.S.
Aluminum Rolling	Lin. Ft.	600	—	600
Concrete Piles	Lin. Ft.	—	7686	7686
Reinforcement Bars	Lbs.	157620	58,110	215,730
Water Proofing Membrane System	Sq. Yds.	1471	—	1471
Preformed Joint Sealer (4")	Lin. Ft.	165	—	165
Test Pile Concrete	Each	—	2	2
Name Plates	Each	—	1	1
Slope Wall 4 Inch	Sq. Yds.	—	352	352
Stud Shear Connectors	Each	3672	—	3672
Precast Prestressed T Beams 36"	Lin. Ft.	—	510.33	510.33

* Calculated Weight of Structural Steel = 454,820 #

NOTES:

DESIGN LOADING:
 HS 20-44 And Allowance For 25 P.S.F. Future Wearing Surface

DESIGN STRESSES:
 $f_c = 1400$ PSI-Except As Follows:
 $f_c = 1200$ PSI-For Deck Slab (Center Spans Only)
 $f_c = 1000$ PSI-For Concrete in Contact With Earth
 $f_s = 20,000$ PSI-M B3 Structural Steel
 $f_s = 20,000$ PSI-Reinforcement Steel
 $v = 75$ PSI-Allowable Shear In Footing
 $n = 10$
 Allowable Live Load Deflection = $L/1200$ (Composite)

DESIGN SPECIFICATIONS:
 AASHTO 1973 As Applicable

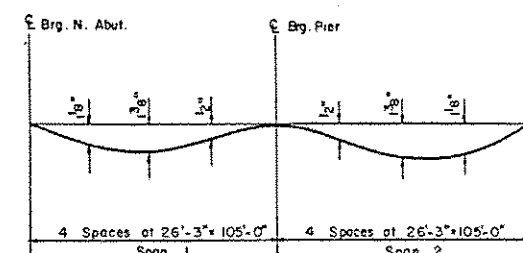
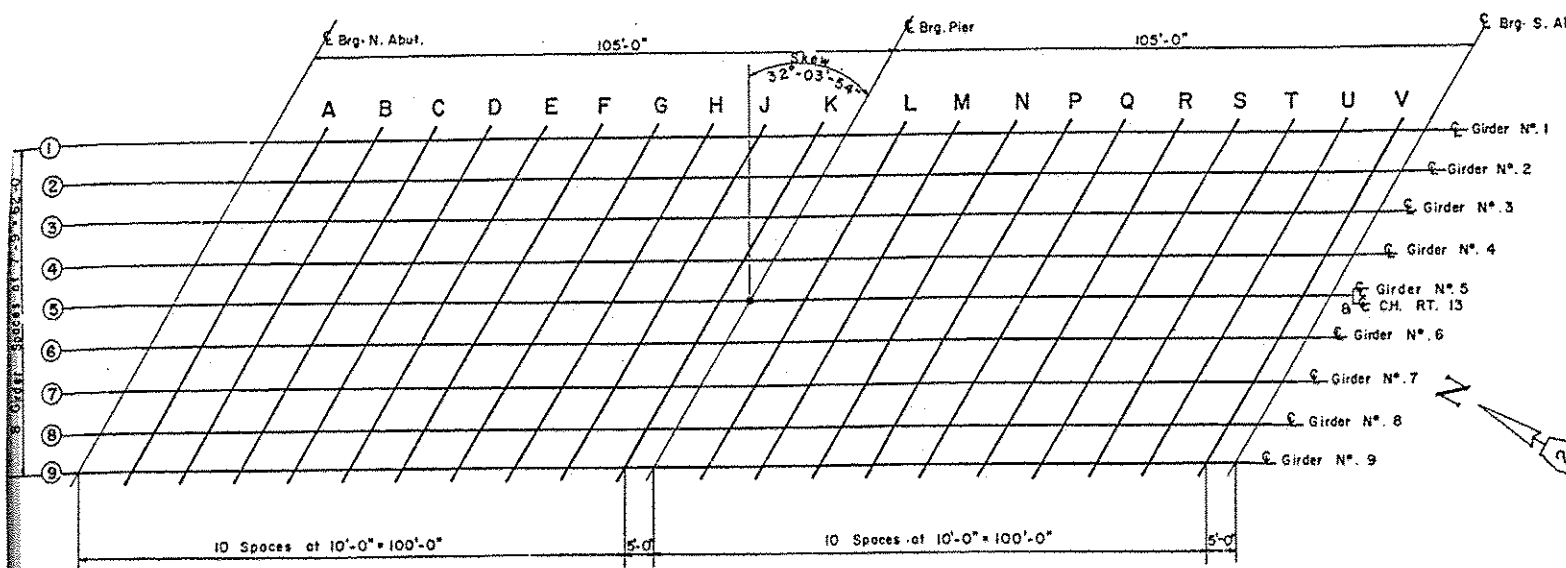
PRESTRESSED BEAMS

DESIGN STRESSES
 $f'_s = 270,000$ PSI-For Prestressing Strands
 $f'_s = 40,000$ PSI-For Reinforcement Steel
 $f'_c = 5,000$ PSI-For Concrete

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 FA 403 SECTION 195-1HB-3
 CH ROUTE 13 OVER FA 403
 WHITESIDE COUNTY
 STATION 1198 + 69.26

FILE NAME: 0:\BRY\Draws\Whiteside\64J89 Cleaning & Painting SN 098-0857 & SN 089-0843\CADD\020	USER NAME: dssidd	DESIGNED: OBANNDgn	REVISED: —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS	F.A.I. R.T.E. 88	SECTION D2 BRIDGE PAINTING 2014-2	COUNTY WHITESIDE	TOTAL SHEETS 9	SHEET NO. 9A	CONTRACT NO. 64J89
Default	PLOT SCALE: 1/8" = 1'-0"	CHECKED: —	REVISED: —	SCALE: —	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT					

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-403	195-1HB-3	WHITESIDE	114	114
SHEET NO. 2				
16 SHEETS				



DEAD LOAD DEFLECTION DIAGRAM
(Includes The Weights of Concrete & Initial Deck Surfacing Only)

NOTE: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown below.

NOTES-

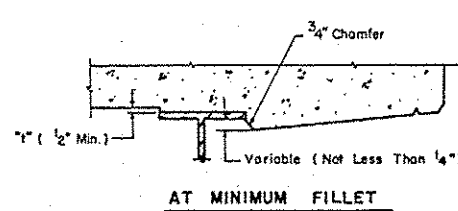
To determine "t" after all Structural steel has been erected, elevations of the top flanges of the girders shall be taken at the intervals shown above. These elevations subtracted from the "theoretical grade elevations adjusted for dead load deflection" above, minus eight inches equals the fillet heights "t" above top flange of girder.

Elevations are given at top of concrete slab.

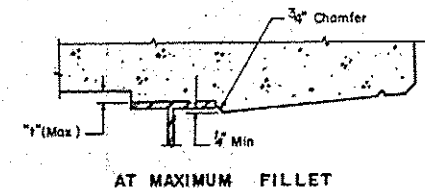
Offsets are from C.H. RT. 13. Negative values to the right and positive values to the left.

GIRDER	STATION	OFFSET	THEORETICAL GRADE	DEFL CONG	THEORETICAL ELEVATIONS ADJUSTED FOR DEAD LOAD
1	49+14.420	31.000	613.0976		613.098
2	49+ 9.564	23.250	613.1845		613.185
3	49+ 4.709	15.500	613.2696		613.270
4	48+99.854	7.750	613.3527		613.353
5	48+95.000	0.000	613.4340		613.434
6	48+90.145	-7.750	613.2711		613.271
7	48+85.290	-15.500	613.1064		613.107
8	48+80.435	-23.250	612.9398		612.940
9	48+75.580	-31.000	612.7714		612.771
1	49+24.420	31.000	613.1621	0.0490	613.211
2	49+19.564	23.250	613.2529	0.0490	613.302
3	49+14.709	15.500	613.3418	0.0490	613.391
4	49+ 9.854	7.750	613.4288	0.0490	613.478
5	49+ 5.000	0.000	613.5140	0.0490	613.563
6	49+ 0.145	-7.750	613.3550	0.0490	613.404
7	48+95.290	-15.500	613.1942	0.0490	613.243
8	48+90.435	-23.250	613.0315	0.0490	613.081
9	48+85.580	-31.000	612.8669	0.0490	612.916

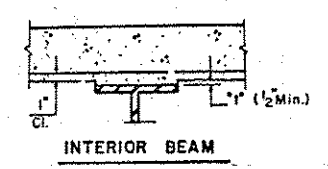
LOCATION	GIRDER	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	DEFL CONG	THEORETICAL ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
B	1	49+34.420	31.000	613.2185	0.0895	613.308
	2	49+29.564	23.250	613.3132	0.0895	613.403
	3	49+24.709	15.500	613.4060	0.0895	613.496
	4	49+19.854	7.750	613.4969	0.0895	613.587
	5	49+15.000	0.000	613.5860	0.0895	613.676
	6	49+10.145	-7.750	613.4309	0.0895	613.521
	7	49+ 5.290	-15.500	613.2740	0.0895	613.364
	8	49+ 0.435	-23.250	613.1151	0.0895	613.205
	9	48+95.580	-31.000	612.9544	0.0895	613.044
C	1	49+44.420	31.000	613.2670	0.1158	613.383
	2	49+39.564	23.250	613.3656	0.1158	613.482
	3	49+34.709	15.500	613.4623	0.1158	613.578
	4	49+29.854	7.750	613.5570	0.1158	613.673
	5	49+25.000	0.000	613.6500	0.1158	613.766
	6	49+20.145	-7.750	613.4988	0.1158	613.615
	7	49+15.290	-15.500	613.3457	0.1158	613.462
	8	49+10.435	-23.250	613.1908	0.1158	613.307
	9	49+ 5.580	-31.000	613.0340	0.1158	613.150



AT MINIMUM FILLET



AT MAXIMUM FILLET



INTERIOR BEAM

FILLET HEIGHT

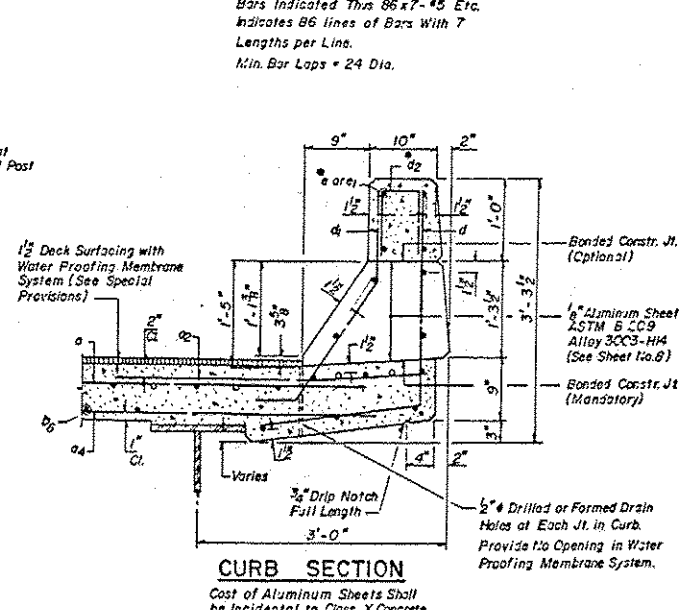
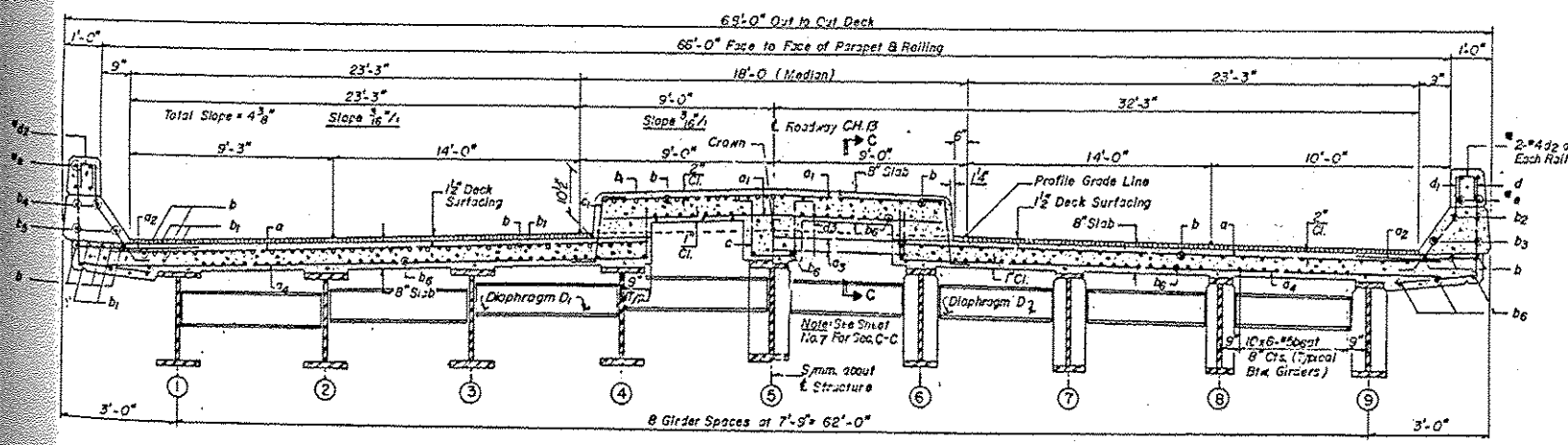
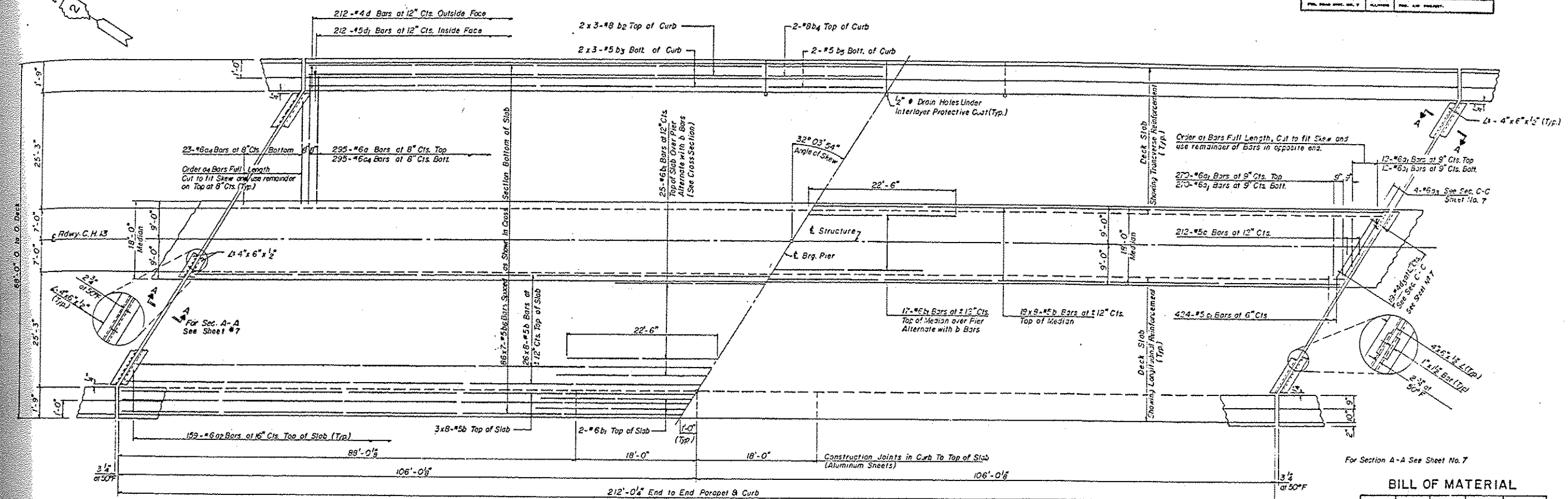
DESIGNED	R.A.R.
CHECKED	K.N.C.
IN CHARGE	J.B.J.

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELEVATIONS--TOP OF SLAB
FA 403 SECTION 195-1HB-3
CH ROUTE 13 OVER FA 403
WHITESIDE COUNTY
STATION 1198+69.26

Work This Sheet With Sheets 3 & 4

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Goss\Whiteside\64JBR Cleaning & P	jasidd	BRANN	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS	88	D2 BRIDGE PAINTING 2014-2	WHITESIDE	9	98
Default	PLOT DATE	CHECKED	REVISED	SCALE	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	CONTRACT NO.	64J89

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 403	195-1	WHITESIDE	145	127
SHEET NO. 5 16 SHEETS				



NOTE:
Bars Indicated Thus 86 x 7-#5 Etc. Indicates 86 Lines of Bars With 7 Lengths per Line.
Min. Bar Laps = 24 Dia.

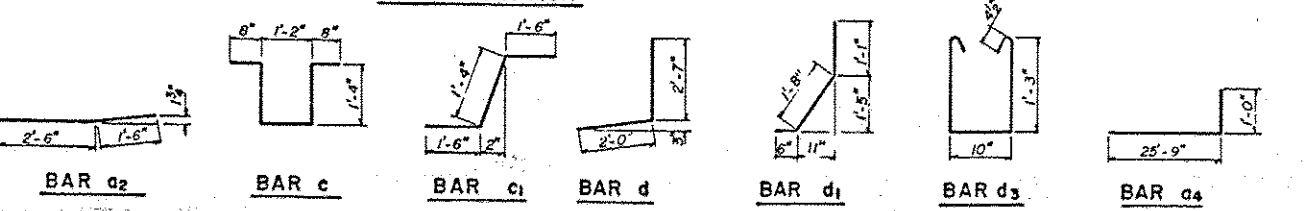
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	590	#6	26'-0"	
a ₁	564	#6	16'-6"	
a ₂	318	#6	4'-0"	
a ₃	9	#6	16'-3"	
a ₄	682	#6	26'-9"	
b	608	#5	27'-9"	
b ₁	44	#6	45'-0"	
b ₂	24	#8	29'-0"	
b ₃	24	#5	29'-0"	
b ₄	8	#9	17'-6"	
b ₅	8	#5	17'-6"	
b ₆	602	#5	31'-6"	
c	212	#5	5'-3"	
c ₁	849	#5	4'-4"	
d	424	#4	4'-7"	
d ₁	424	#5	3'-3"	
d ₃	38	#4	3'-9"	

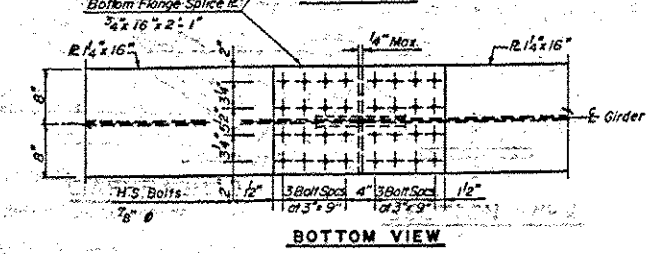
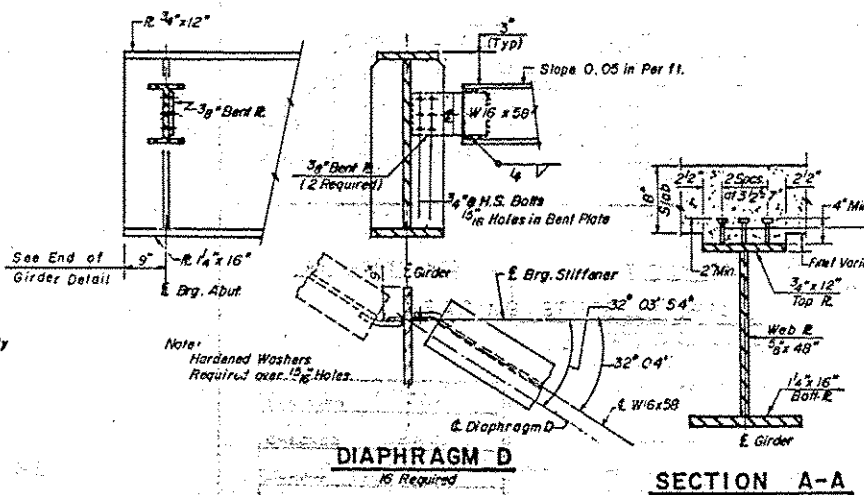
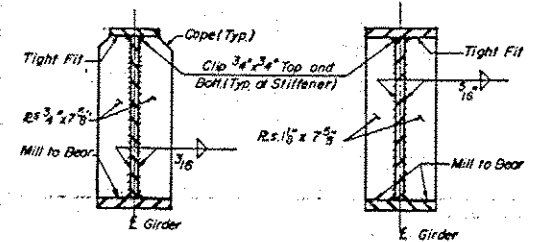
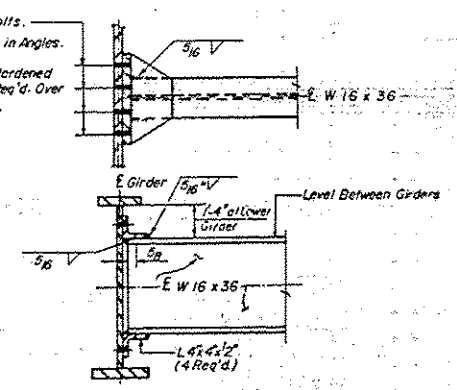
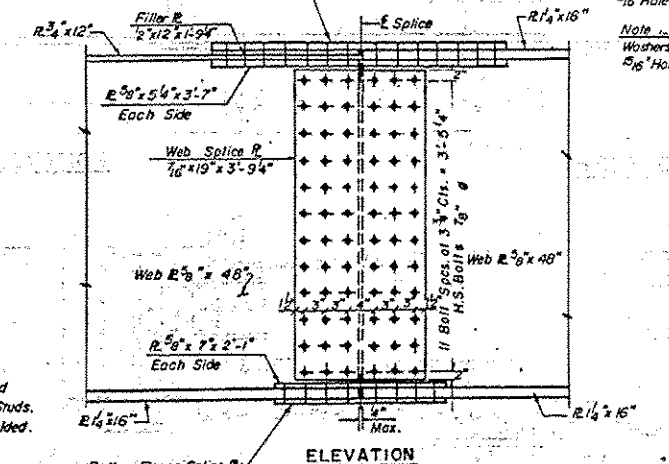
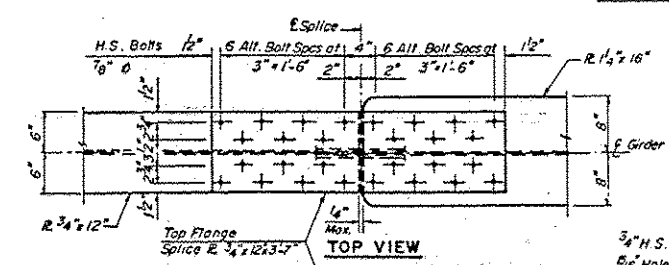
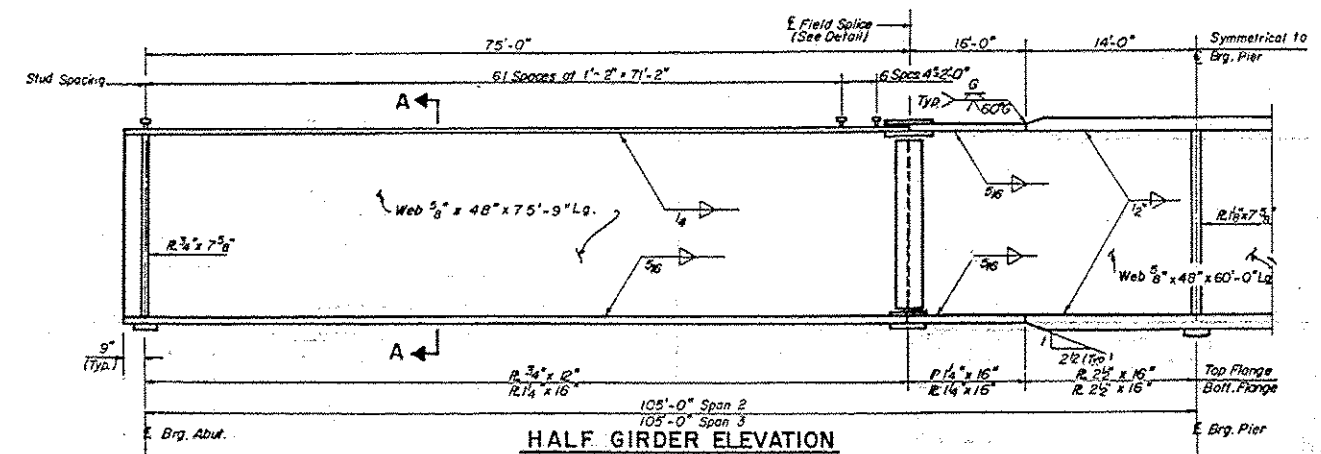
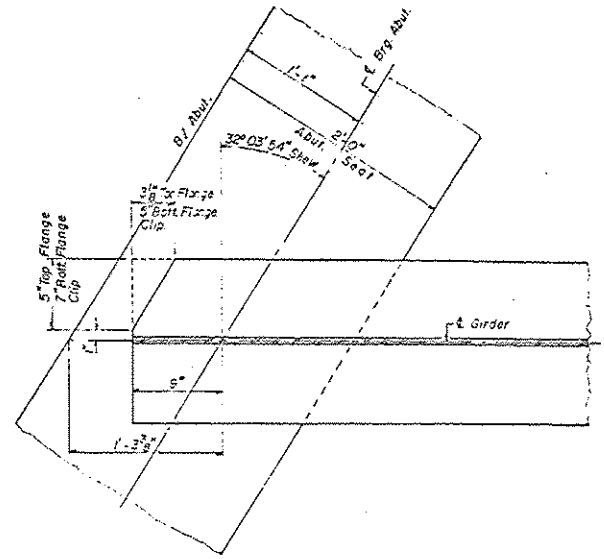
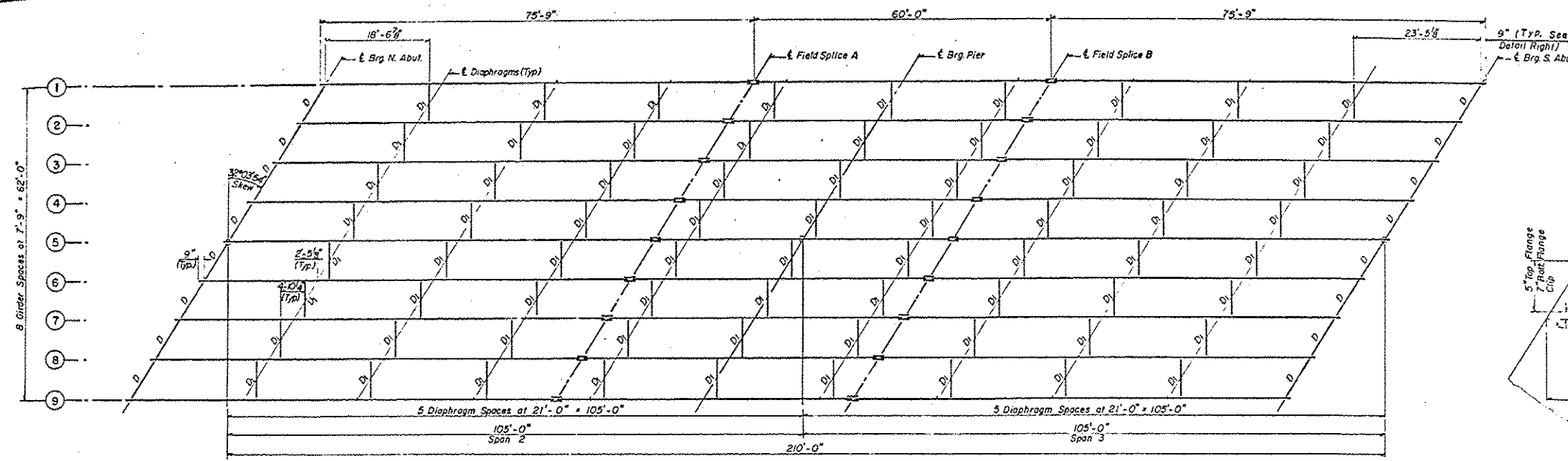
Reinforcement Bars Lbs. 117,760
Class X Concrete Cu Yds. 427.7
Bit. Cont. Surface Course, Class I Tons 92.3
Parapet Reinforcement and Class X Concrete are Billed on Sheet No. 8

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
FA 403 SECTION 195-1HB-3
CH ROUTE 13 OVER FA 403
WHITESIDE COUNTY
STATION 1198 + 69.26

DESIGNED	R. A. K.
CHECKED	K. M. C.
DRAWN	G. GRATZ
CHECKED	A. C. C.



DESIGNED	195-1	SECTION	WHITESIDE	COUNTY	ILLINOIS	SHEET NO.	9
CHECKED	403	SECTION	195-1	COUNTY	WHITESIDE	TOTAL SHEETS	16
DRAWN	HB-3	SECTION	2.4.5	COUNTY	131		
CHECKED		SECTION		COUNTY			



DESIGNED	K.M.C.
CHECKED	K.M.C.
DRAWN	G. GRATZ
CHECKED	[Signature]

NOTE: For Detail of Bearing Assembly See Sheet No. 10

Note: Hardened Washers Required over 1/2" Holes.

3/8" Granular or Solid Flux Filled Headed Studs. Automatically and Welded. (3672 Required)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL STEEL
 FA 403 SECTION 195-1HB-3
 CH. ROUTE 13 OVER FA 403
 WHITESIDE COUNTY
 STATION 1198 + 69.26

FILE NAME:	USER NAME: dssdd	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Whiteside\64J09 Cleaning & Painting SN 070-0057 & SN 089-0043\CA00\028	ORAWN: dgn	REVISED: -	REVISED: -	SCALE:	SHEET OF SHEETS	88	02 BRIDGE PAINTING 2014-2	WHITESIDE	9	90
PLOT SCALE: 1/8" = 1'-0"	PLOT DATE: 1 Feb Nov 08 08:10:47 2013	CHECKED: -	REVISED: -	DATE: -	STA.			CONTRACT NO.	64J09	
Default					TO STA.			ILLINOIS FED. AID PROJECT		

