

03-06-2015 LETTING ITEM 035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 88 (I-88)
SECTION (195-3B-2)P

WHITESIDE COUNTY

C-92-089-14

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-2)P	WHITESIDE	13	1

* 13 + 1 = 14

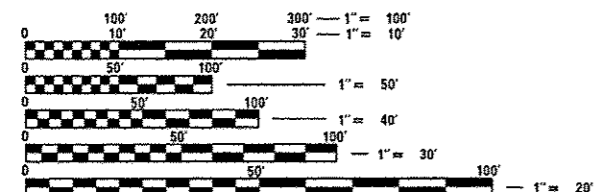
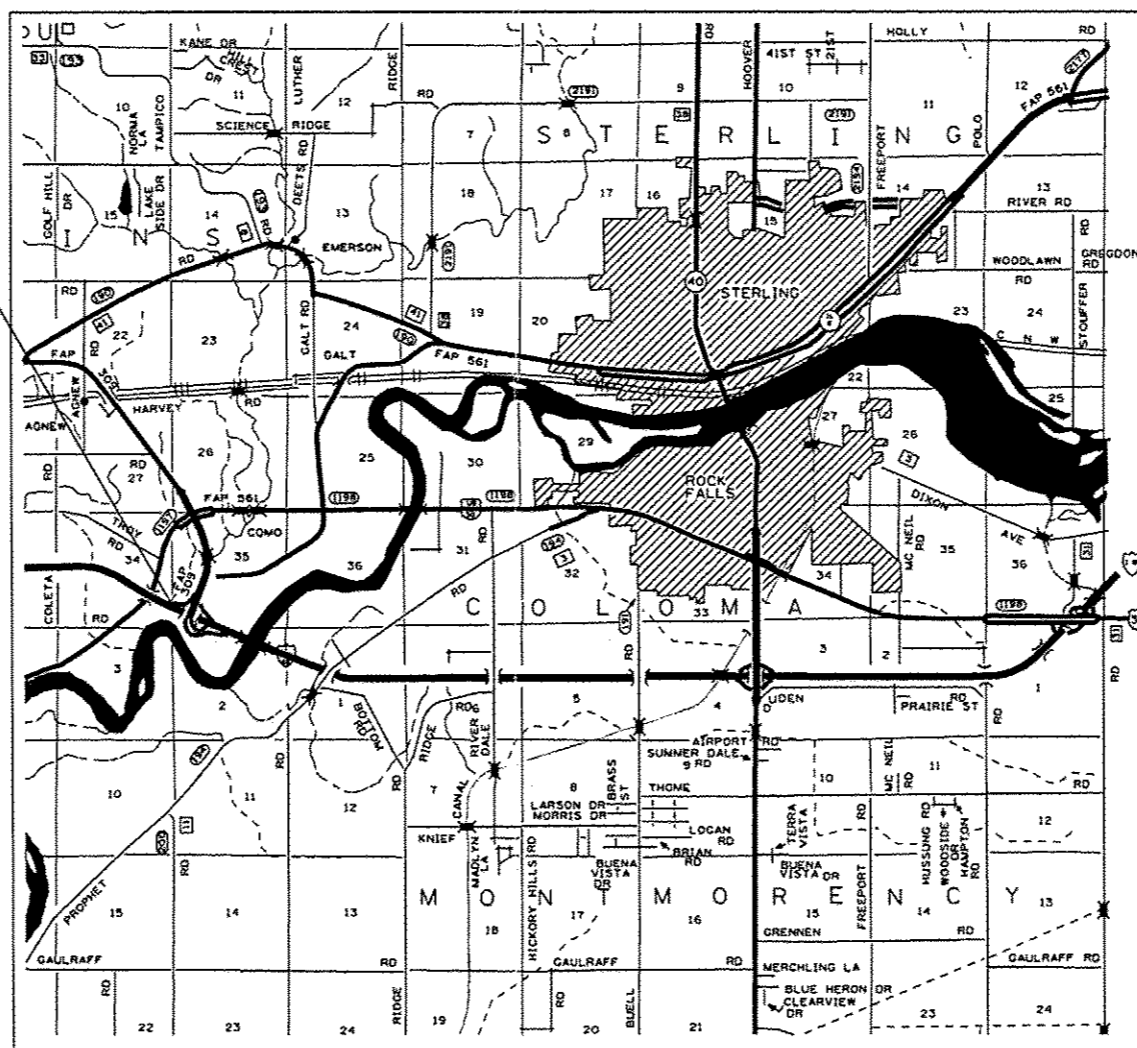
D-92-067-14



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

HOPKINS TOWNSHIP - SECTION 35

SN 098-0075
SN 098-0076



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

CONTRACT NO. 64K47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 10th 2014
Paul A. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30, 2015
Jan D. Baranowski PE
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30, 2015
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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- 2 INDEX OF SHEETS & STATE STANDARDS
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- 6-10 STAGING PLAN FOR SN 098-0075 & 098-0076
- 11-13A, EXISTING PLANS FOR SN 098-0075 & 098-0076

STATE STANDARDS

- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-10 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 701406-09 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701901-04 TRAFFIC CONTROL DEVICES
- 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)

FILE NAME :	USER NAME : dosadd	DESIGNED - _____	REVISED - 8-18-2014 DO	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Ossa\Whiteside\64K47 Full Cleaning	& Painting SN 098-0075 & 098-0076\CADD\02-DRAWING\11-cover.dgn	CHECKED - _____	REVISED - _____			88	(195-3B-2)P	WHITESIDE	13	2	
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K47			
	PLOT DATE = Wed Dec 10 14:09:40 2014					ILLINOIS FED. AID PROJECT					

Rev.

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

ELECTRIC:

COMMONWEALTH EDISON COMPANY
ATTN: NORA FERNANDEZ (815) 490-2869
123 ENERGY AVENUE
ROCK ISLAND, IL 61109

TELEPHONE:

AT&T
ATTN: DAVID GREEN (309) 757-4707
2800 7TH STREET
MOLINE, IL 61265

COMMUNICATIONS:

G4S TECHNOLOGY, LLC
ATTN: CECIL KUHSE (630) 343-2155
565 WILLOWBROOK CENTER PARKWAY
WILLOWBROOK, IL 60527

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.

No Stream Permits have been procured for this project. None are required from the Regulatory Agencies as long as 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) from the aforementioned, 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 as a result of 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

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.

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.

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.

THE SSPC OP1 & OP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

HAZARDS BEHIND TEMPORARY CONCRETE BARRIER WALL:
NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 3'-6" OF THE TEMPORARY CONCRETE BARRIER WALL, MEASURED FROM THE CLOSEST POINT OF THE BARRIER WALL PERPENDICULAR TO THE HAZARD. EQUIPMENT THAT IS ACTIVELY WORKING WITHIN 3'-6" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER, REQUIRED FOR THE WORK ACTIVITY, AND THERE IS NOT ANOTHER METHOD TO COMPLETE THE WORK.

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Whiteside\64K47 Full Cleaning & Painting SN 098-0075 & 098-0076\CA00\02-DRAW\Nht-cover.dgn	doasdd	CHECKED :	REVISED :			88	(195-38-2)P	WHITESIDE	13	3
PLOT SCALE :		DATE :	REVISED :			CONTRACT NO. 64K47				
Default						ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

0014
100%
STATE

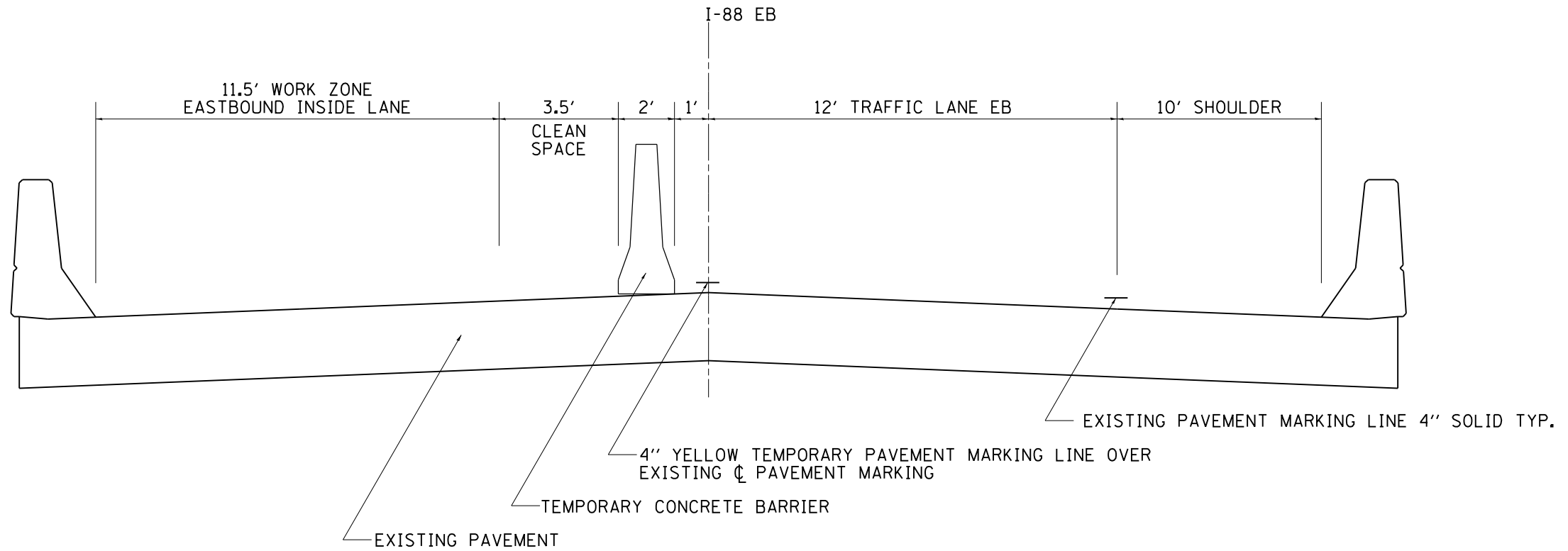
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
67100100	MOBILIZATION	L SUM	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	2,019
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	673
70400100	TEMPORARY CONCRETE BARRIER	FOOT	582.87
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	EACH	1
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	EACH	1
X7010410	SPEED DISPLAY TRAILER	CAL MO	2
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1

Rev.

FILE NAME : D:\BR\Draws\Whiteside\64K47 Full Cleaning & Painting SH 090-0075 & 090-0076\CADD\DWG\Paint-cover.dgn	USER NAME : dosadd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE. 88	SECTION 095-3B-2IP	COUNTY WHITESIDE	TOTAL SHEETS 13	SHEET NO. 4	CONTRACT NO. 64K47	ILLINOIS FED. AID PROJECT
PLOT SCALE * 40.0000 * / in.	PLOT DATE * Wed Dec 10 14:39:53 2014	CHECKED - _____	REVISED - _____	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____						

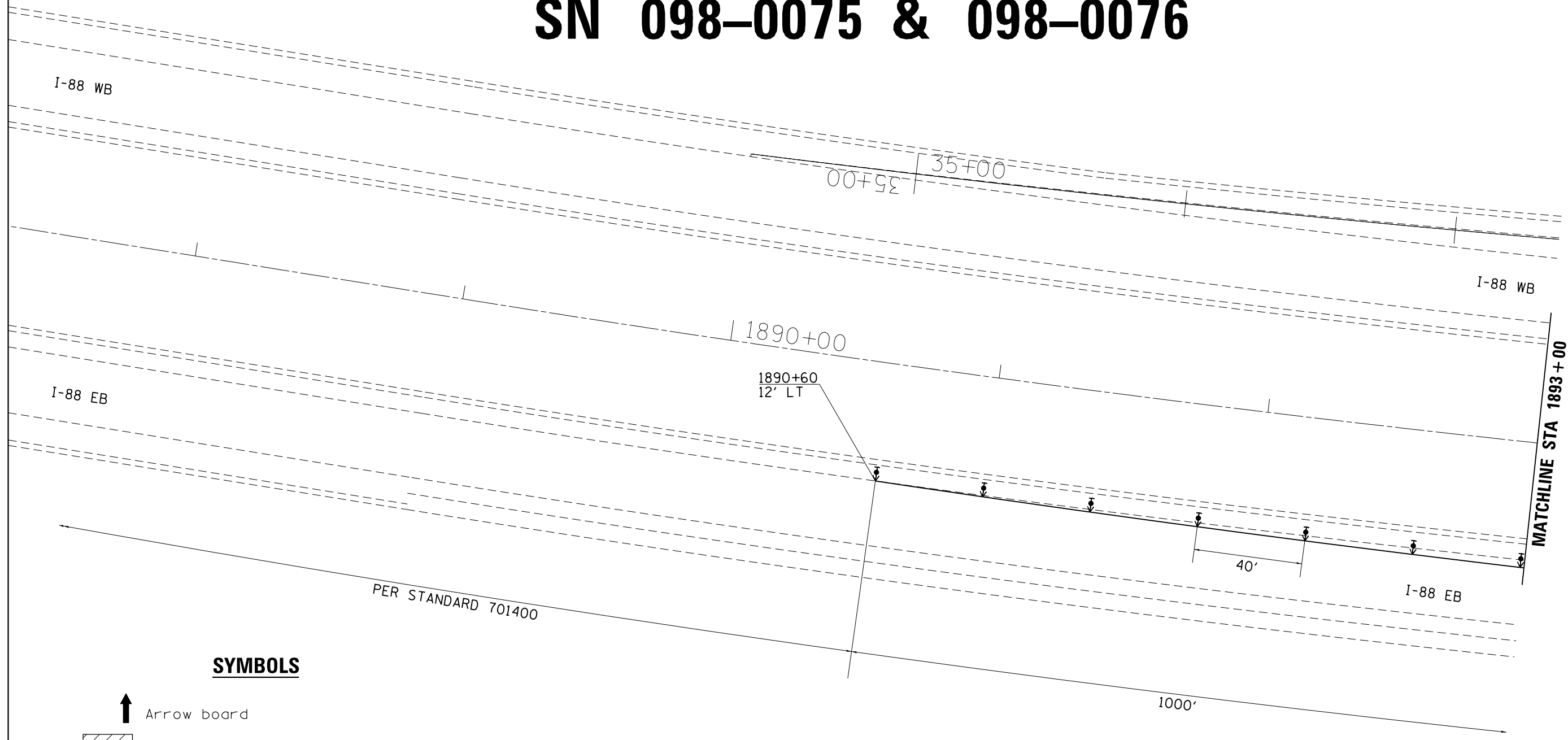
STAGING TYPICAL

STAGING EASTBOUND (SN 098-0075 OVER ELKHORN CREEK)






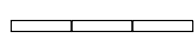




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	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____				88	(195-3B-2)P	WHITESIDE	13	5
Default	PLOT DATE = Wed Dec 10 14:40:00 2014	DATE - _____	REVISED - _____	SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT CONTRACT NO. 64K47					

STAGING PLAN FOR SN 098-0075 & 098-0076



SYMBOLS

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

NOTES

SEE STANDARDS 701400, 701402 AND 704001 FOR DETAILS NOT SHOWN.

OFFSETS ARE TO THE EXISTING EASTBOUND CENTERLINE PAVEMENT MARKING

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
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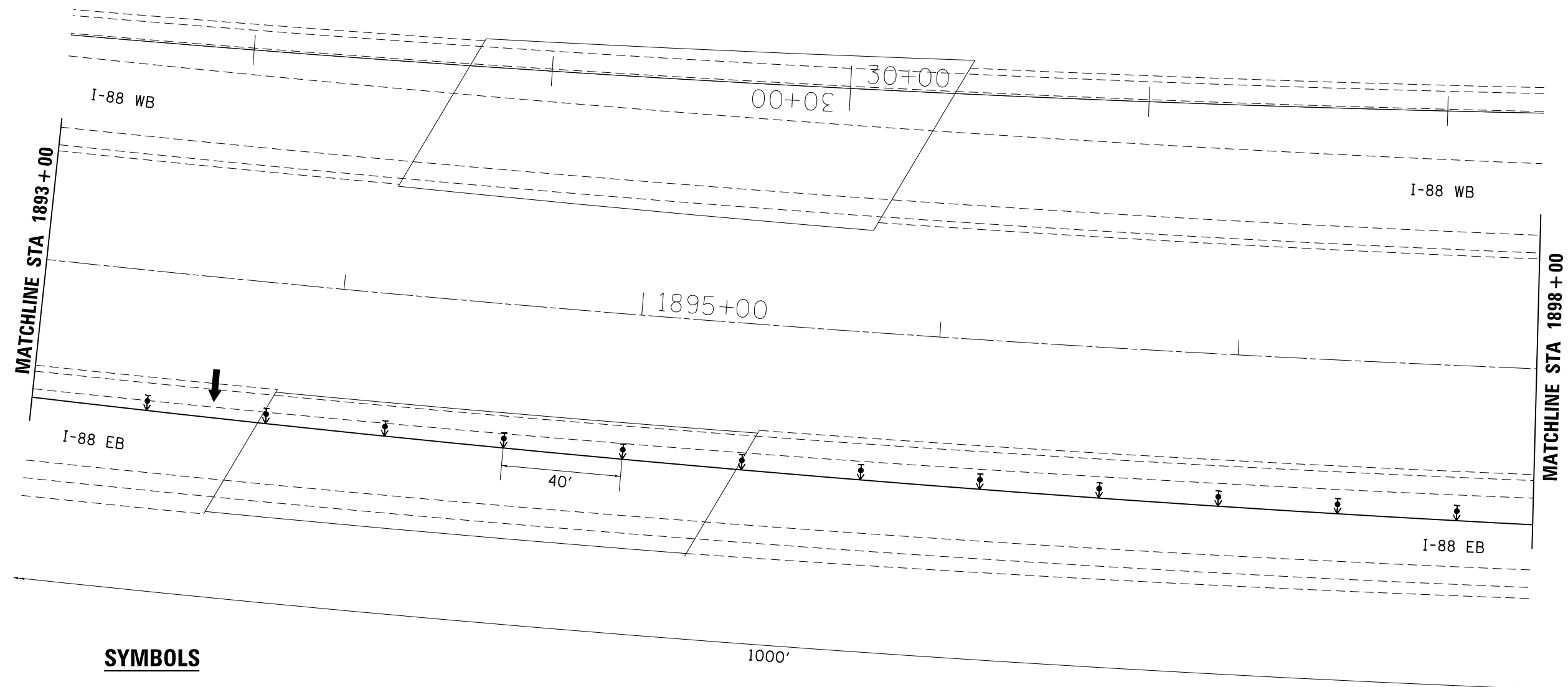
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN FOR
SN 098-0075 & 098-0076**






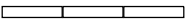


SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-2)P	WHITESIDE	13	6
CONTRACT NO. 64K47			ILLINOIS FED. AID PROJECT	

STAGING PLAN FOR SN 098-0075 & 098-0076



SYMBOLS

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

NOTES

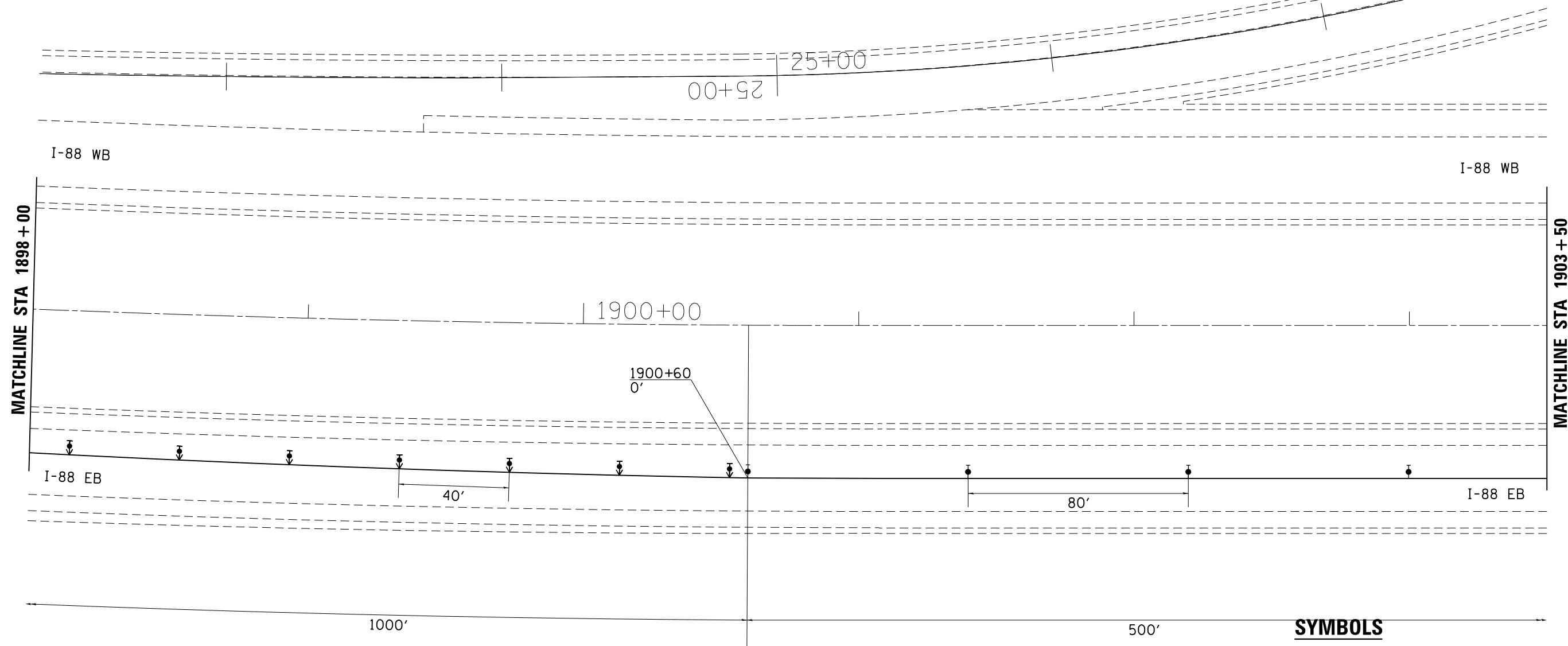
SEE STANDARDS 701400, 701402 AND 704001 FOR DETAILS NOT SHOWN.

OFFSETS ARE TO THE EXISTING EASTBOUND CENTERLINE PAVEMENT MARKING

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL

FILE NAME = D:\BR\Draw\Whiteside\64K47 Full Cleaning & Painting SN 098-0075 & 098-0076\CADD\DWG\Sheet-cover.dgn	USER NAME = dossed	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING PLAN FOR SN 098-0075 & 098-0076		F.A.I. RTE. = 88	SECTION = (195-3B-2)P	COUNTY = WHITESIDE	TOTAL SHEETS = 13	SHEET NO. = 7
	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____				CONTRACT NO. 64K47				
Default	PLOT DATE = Wed Dec 10 14:40:36 2014	DATE - _____	REVISED - _____	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT					

STAGING PLAN FOR SN 098-0075 & 098-0076



SYMBOLS

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

NOTES

SEE STANDARDS 701400, 701402 AND 704001 FOR DETAILS NOT SHOWN.

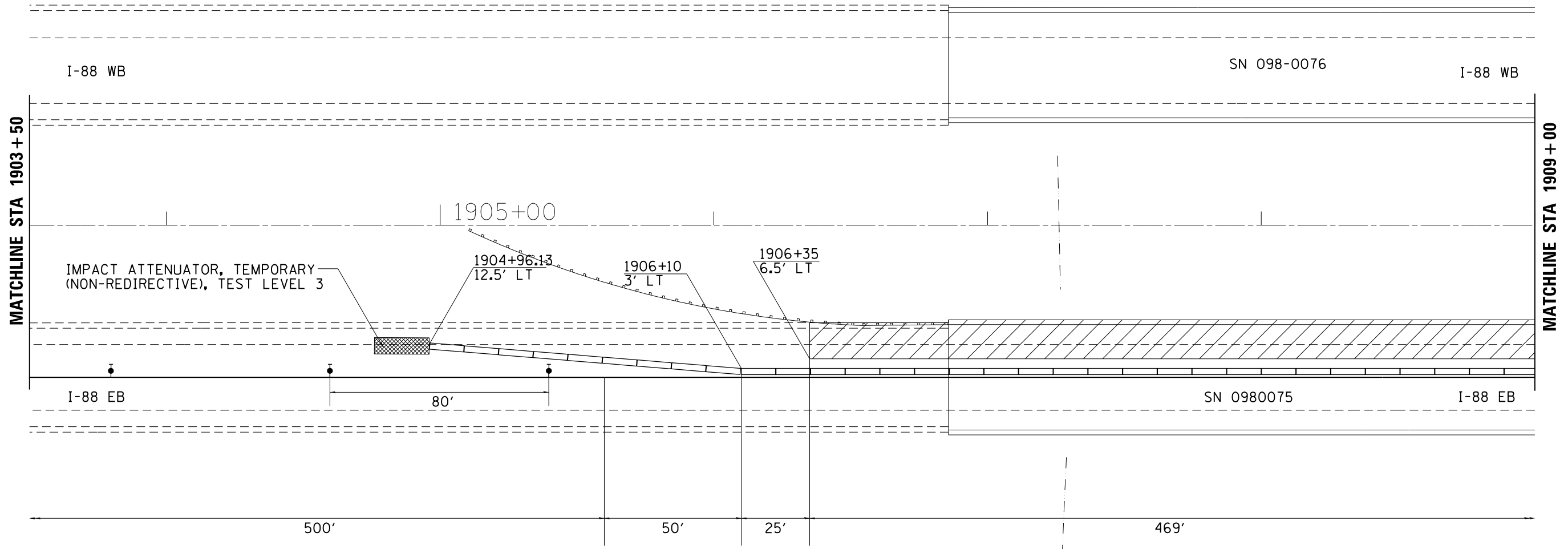
OFFSETS ARE TO THE EXISTING EASTBOUND CENTERLINE PAVEMENT MARKING

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING PLAN FOR SN 098-0075 & 098-0076	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
D:\BR\Draws\Whiteside\64K47 Full Cleaning & Painting SN 098-0075 & 098-0076\CADD\DWG\Sheet-cover.dgn						DRAWN - _____	REVISED - _____	88	(195-3B-2)P	WHITESIDE	13	8
PLOT SCALE = 40.0000' / in.						CHECKED - _____	REVISED - _____	CONTRACT NO. 64K47				
PLOT DATE = Wed Dec 10 14:40:41 2014						DATE - _____	REVISED - _____	ILLINOIS FED. AID PROJECT				

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

STAGING PLAN FOR SN 098-0075 & 098-0076



SYMBOLS

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

NOTES

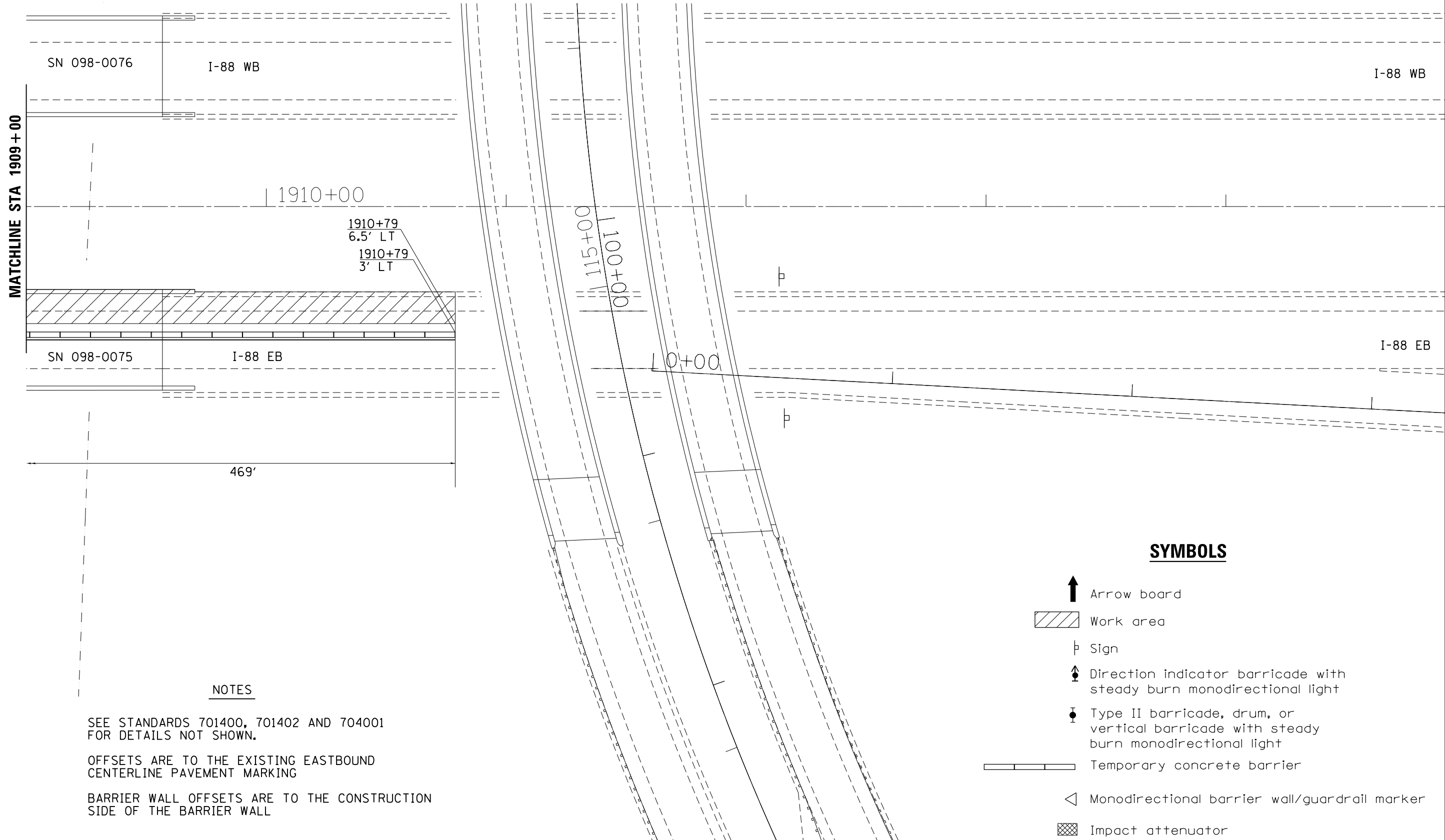
SEE STANDARDS 701400, 701402 AND 704001 FOR DETAILS NOT SHOWN.

OFFSETS ARE TO THE EXISTING EASTBOUND CENTERLINE PAVEMENT MARKING

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING PLAN FOR SN 098-0075 & 098-0076	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
Q:\BR\Draw\Whiteside\64K47 Full Cleaning & Painting SN 098-0075 & 098-0076\CADD\DWG\Sheet-cover.dgn	DRAWN =	REVISIONS =	REVISIONS =			88	(195-3B-2)P	WHITESIDE	13	9	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISIONS = _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64K47			
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STAGING PLAN FOR SN 098-0075 & 098-0076




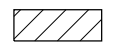



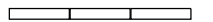


NOTES

SEE STANDARDS 701400, 701402 AND 704001 FOR DETAILS NOT SHOWN.

OFFSETS ARE TO THE EXISTING EASTBOUND CENTERLINE PAVEMENT MARKING

BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL

SYMBOLS

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

FILE NAME =	USER NAME = dssdd	DESIGNED - _____	REVISED - _____
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	PLOT DATE = Wed Dec 10 14:47:42 2014		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN FOR
SN 098-0075 & 098-0076

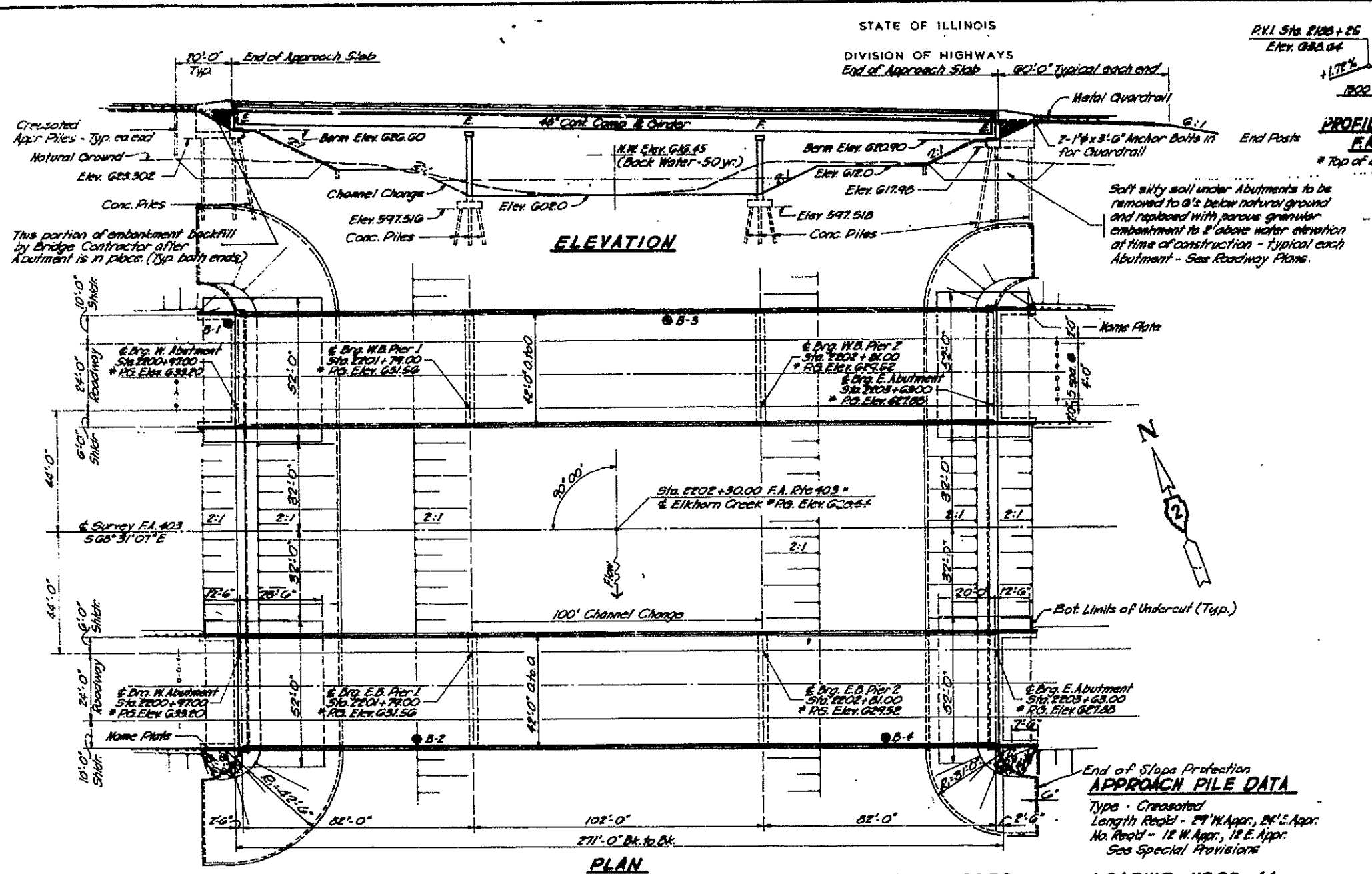
SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-2)P	WHITESIDE	13	10
CONTRACT NO. 64K47			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

098-0075 & 098-0076

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 403	195-3	WHITESIDE	13	11
ILLINOIS F.A. PROJ.				



GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts $\frac{1}{2}$ " ϕ ; open holes $\frac{3}{8}$ " ϕ unless otherwise noted.

Calculated weight of Structural Steel = 605,510 lbs.

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

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

Anchor bolts shall be set before bolting diaphragms over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 50 lbs. per 100 sq. ft.

The Contractor shall drive one concrete test pile at each abutment, and at pier in permanent location as directed by the Engineer before ordering the remainder of piles.

Concrete piles of abutments shall be driven in holes precast through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

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 Coal Tar Interlayer Protective Coat is applied.

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

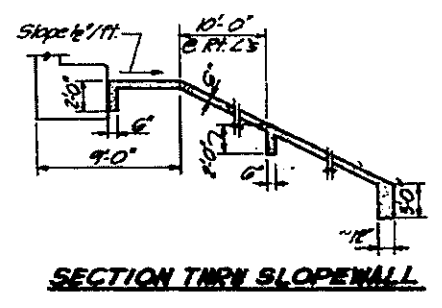
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yds.		48.8	48.8
Class X Concrete	Cu. Yds.	689.6	685.0	1374.6
Structural Steel	Lump Sum	1		1
Reinforcement Bars	Lbs.	160,861	48,864	209,725
Concrete Piles	Lin. Ft.		5016	5016
Test Piles Concrete	Each		6	6
Slope Wall, 6"	Sq. Yds.		1500	1500
RT. Conc. Surf. Course, Class I	Tons	128		128
Coal Tar Int. Prot. Coat	Sq. Yds.	2670		2670
Aluminum Railings	Lin. Ft.	1071		1071
Preformed J. Spacer	Lin. Ft.	64		64
Neoprene Exp. J. (2 1/2")	Lin. Ft.	88		88
Steel Shear Connectors	Each	5032		5032
Protective Coat	Sq. Yds.	445		445
Crested Piles 24" x 36"	Lin. Ft.		630	630
Name Plate	Each		2	2

STA. 2202 + 30.00
BUILT 1972 BY
STATE OF ILLINOIS
F.A. RTE. 403 - SEC. 195-3B2
LOADING HS-20

NAME PLATE
See Std. 2113

DESIGNED	H.M.W.	EXAMINED	
CHECKED	C.D.C.	PASSED	
DRAWN	L.P.	APPROVED	
CHECKED	H.M.W.		



DESIGN STRESSES

R_c = 1200 psi Deck Slab
 R_c = 1400 psi Curb, Parapet, & Substructure
 R_c = 75 psi Footings
 n = 10
 f_s = 20,000 psi Reinf. & Struct.
 Design Specifications - 1969 MASHO (as applicable)
 Allow 25 #/ft² for Future Wearing Surface
 Allowable δ Deflection = span/1800 (Composite)

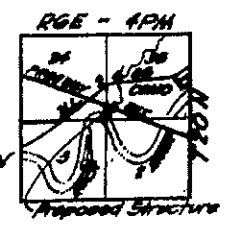
WATERWAY INFORMATION

Drainage Area = 252 sq. miles
 Q_{50} = 12,086 c.f.s.
 Req. Opening (50 year Flood) = 2100 S.F.
 Proposed Opening = 2100 S.F.
 Crested Head = 0.36'

APPROACH PILE DATA

Types - Crested
 Length Road - 12' W. App., 12' E. App.
 No. Road - 12' W. App., 12' E. App.
 See Special Provisions

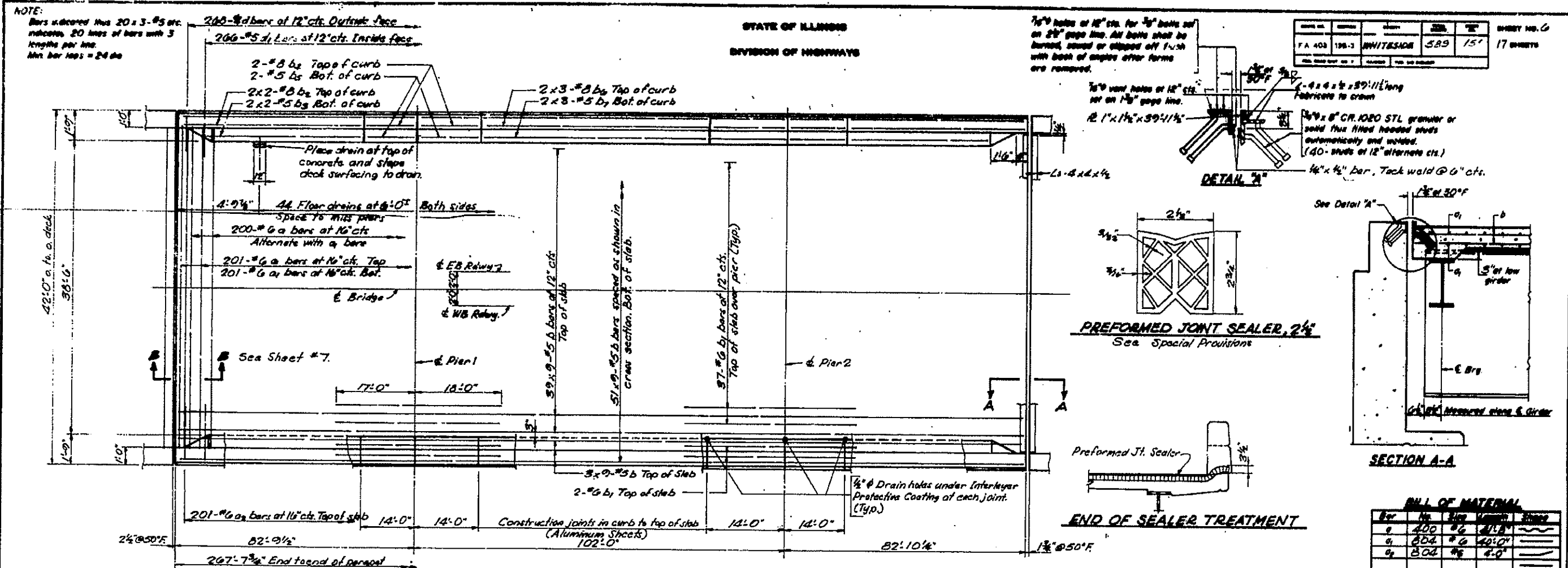
LOADING HS 20-44



GENERAL PLAN & ELEVATION

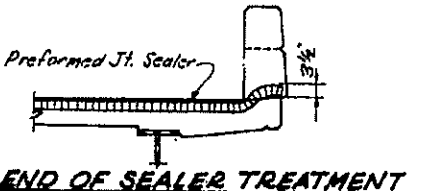
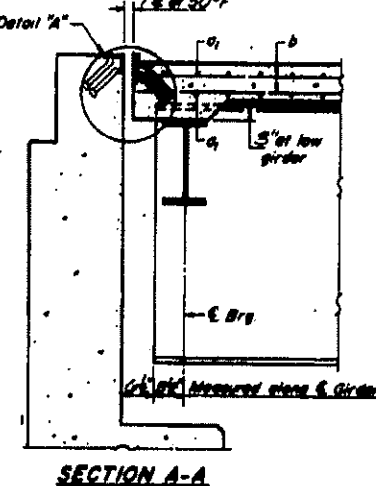
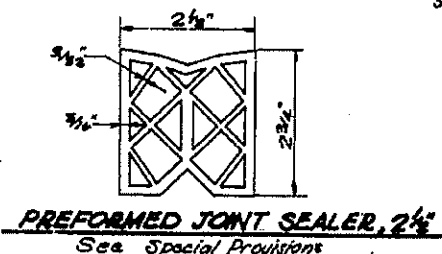
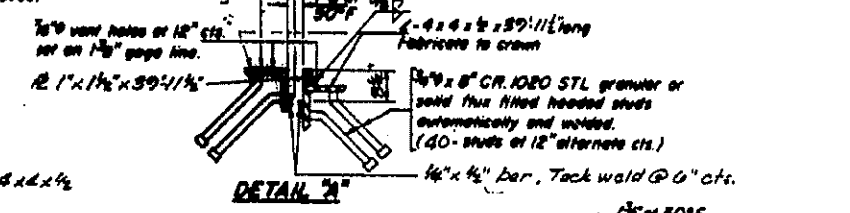
ELKHORN CREEK
 BRIDGE
 STA. 2202 + 30.00
 PLANS PREPARED BY NACKE ENGINEERING CO.

FOR INFORMATION ONLY



1/4" holes of 12" dia. for #5 bolts set on 24" gauge line. All bolts shall be burned, sand or slotted off 1/4" with both of angles after forms are removed.

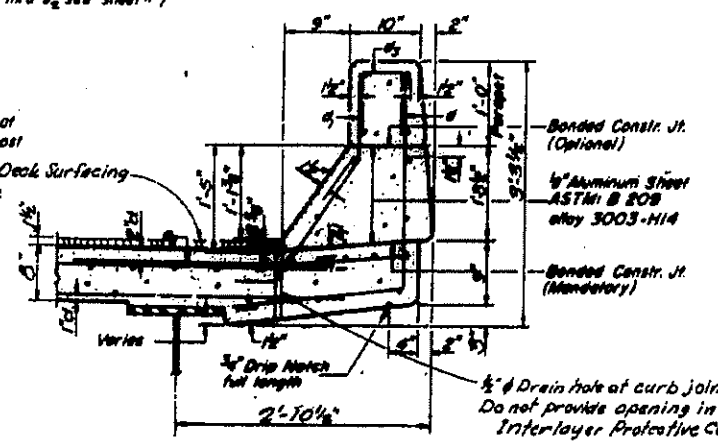
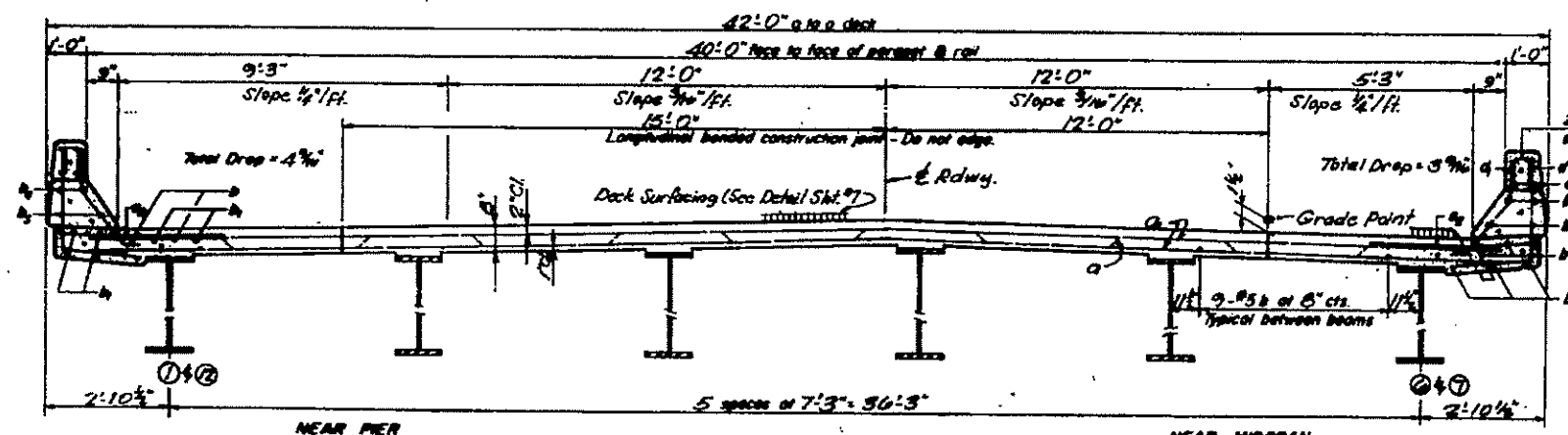
DATE	DESCRIPTION	BY	CHKD.	APP'D.	SHEET NO. OF SHEETS
F.A. 403 195-3	WHITESIDE	589	15'		17 SHEETS



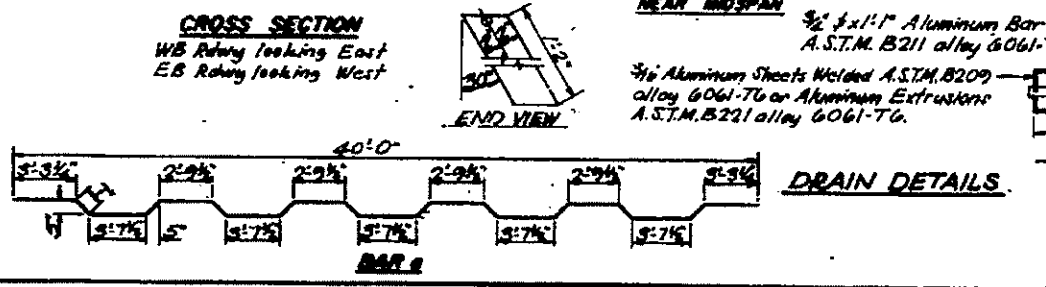
BILL OF MATERIAL

Bar	No.	Size	Length	Weight
a	200	#5	21.0'	
a	804	#5	40.0'	
a	804	#5	4.0'	
b	1728	#5	30.0'	
b	164	#5	22.0'	
b ₂	32	#5	23.2'	
b ₁	32	#5	24.1'	
b ₂	32	#5	23.0'	
b ₁	32	#5	23.0'	
b ₂	24	#5	26.10'	
b ₁	24	#5	25.5'	
c	1078	#5	2.5'	
c	1064	#5	5.8'	
Reinforcement Bars		Lbs.	157,435	
Class X Concrete		Cu. Yds.	540.1	

NOTE: For placement of bars d₁ and e thru e₂ see sheet #7



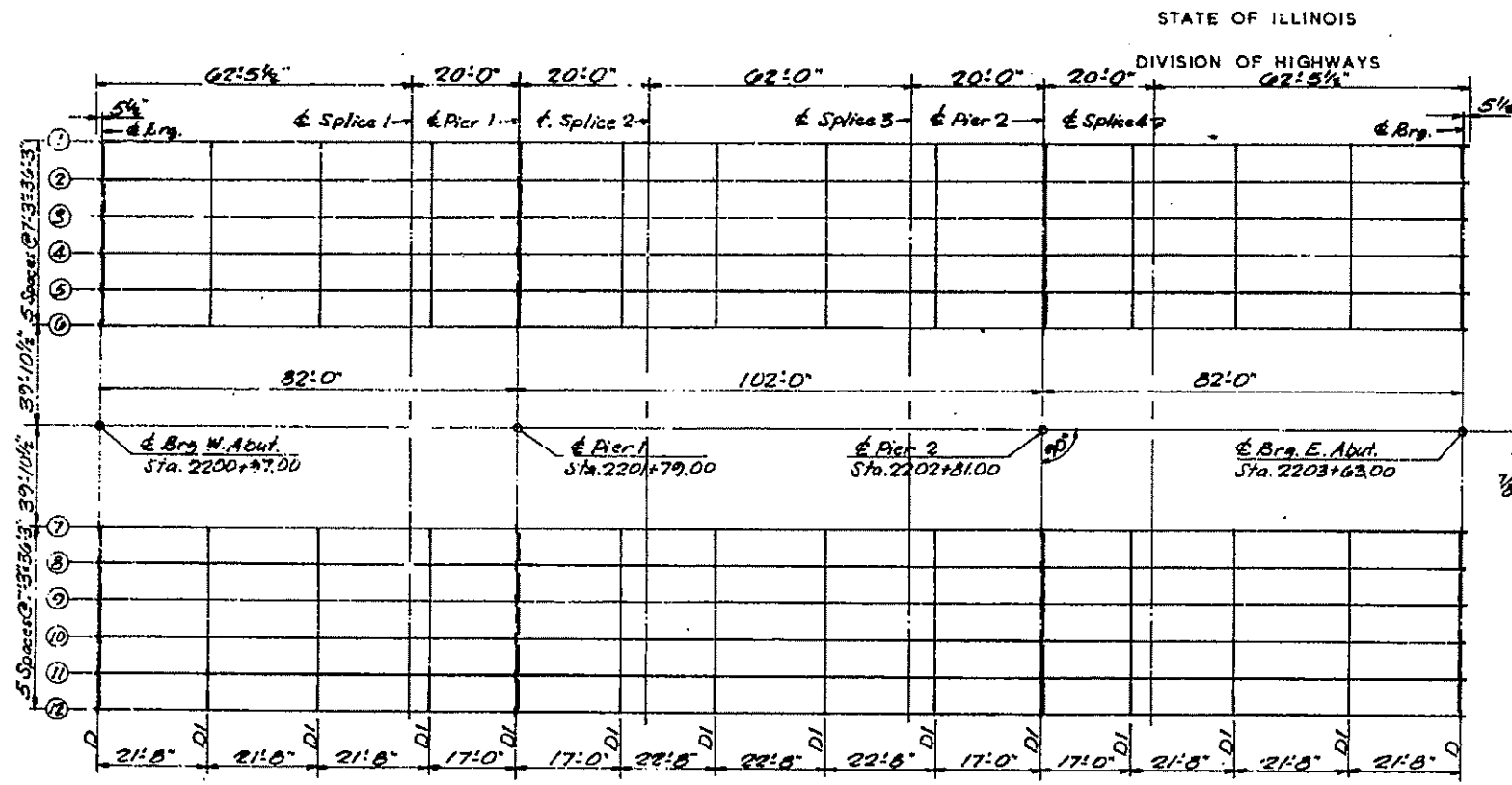
DESIGNED	C.D.C.
CHECKED	H.M.W.
DRAWN	C.D.C.
CHECKED	H.M.W.



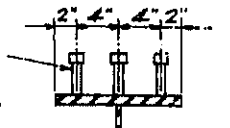
For Section B-B see sheet #7
Parapet Reinforcement and Class X Concrete are billed on sheet #7.

SUPERSTRUCTURE
F.A. RTE. 403-SEC. 195-382
WHITESIDE COUNTY
STATION 2202+30.00

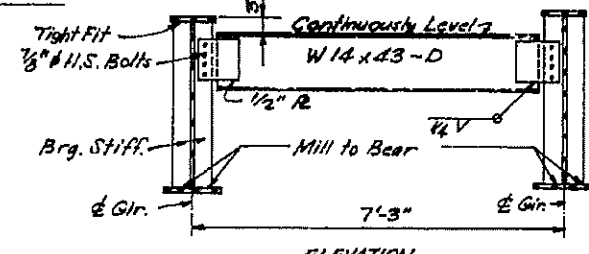
ROUTE NO. R.A. 403	SEC. 189-3	COUNTY WHITESIDE	SHEET NO. 155	SHEET NO. 17
ILLINOIS I.A. PROJ.				



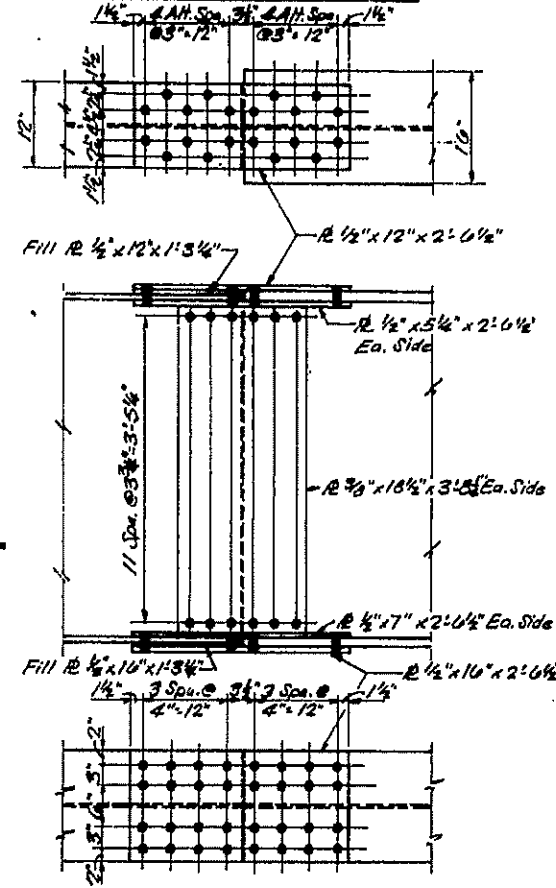
3/4" φ x 5" CR 1020 STL granular or solid flux filled headed studs automatically end welded



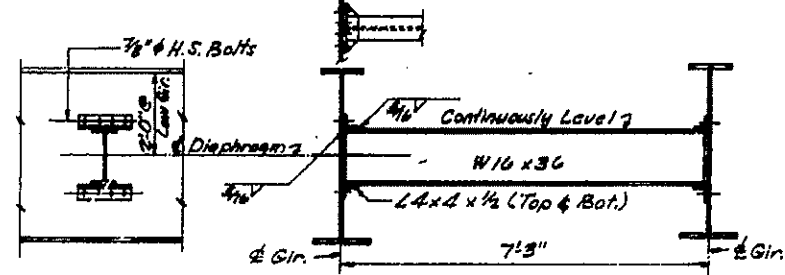
SECTION A-A
(486 Studs per Girder)



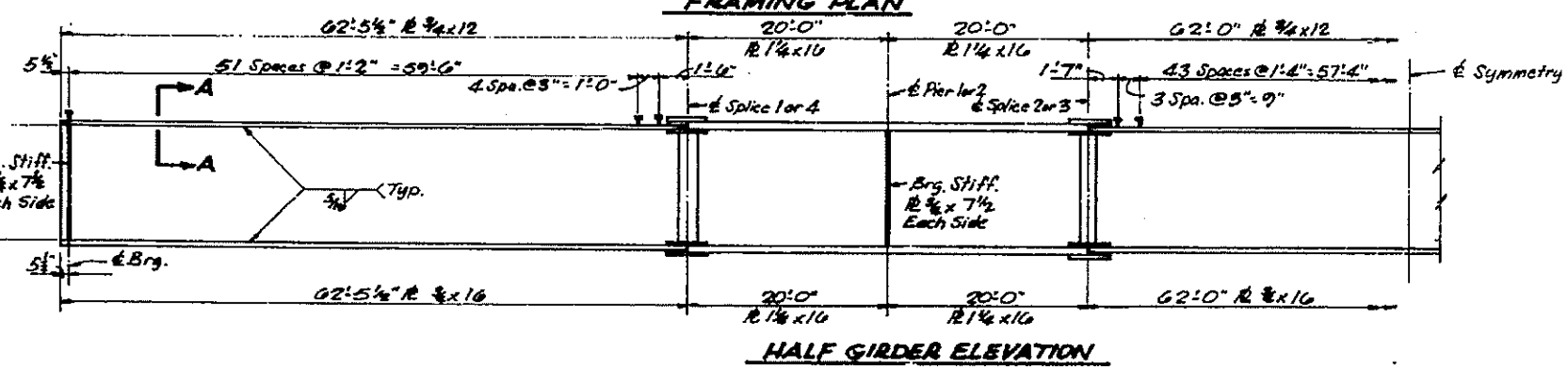
ELEVATION
DIAPHRAGM D
20 Required



SPICE DETAILS
(All Bolts 3/8" φ H.S.)



DIAPHRAGM D1
120 Required



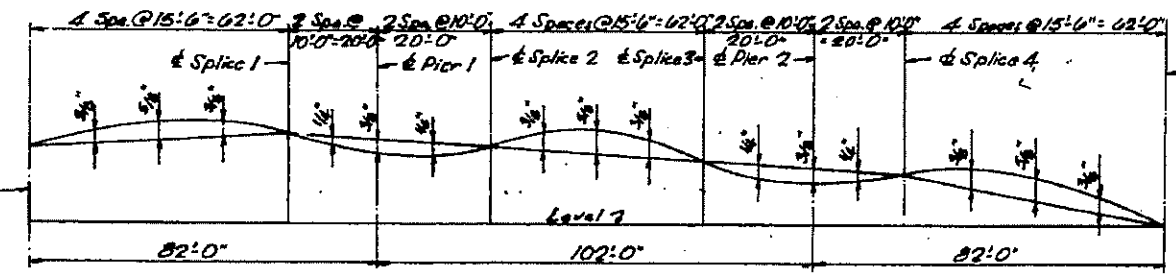
HALF GIRDER ELEVATION

* TOP OF WEB ELEVATIONS

630.081	630.092	630.110	630.172	630.259	630.384
630.391	630.528	630.660	630.772	630.859	630.984
630.021	630.172	630.290	630.382	630.519	630.702
628.801	628.952	629.070	629.132	629.019	628.884
628.351	628.502	628.620	628.682	628.569	628.434
627.981	628.132	628.250	628.312	628.199	628.064
626.714	626.865	626.983	627.045	626.932	626.797

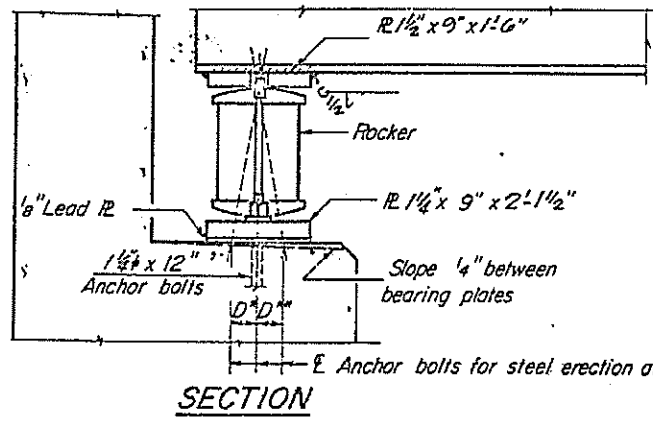
* For Fabrication only

DESIGNED J.P.	EXAMINED	13
CHECKED H.M.W.	PASSED	
DRAWN C.D.C.	APPROVED	
CHECKED H.M.W.		

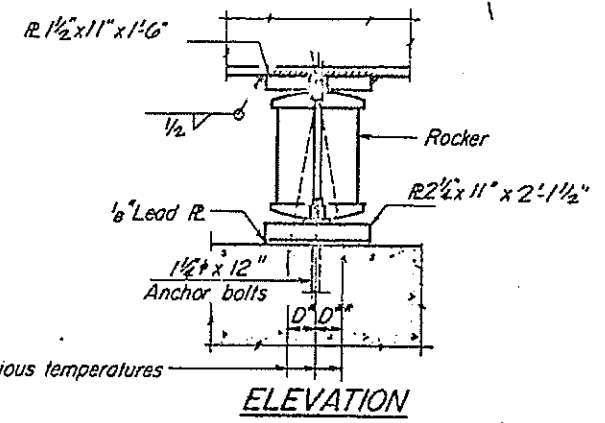


CAMBER DIAGRAM

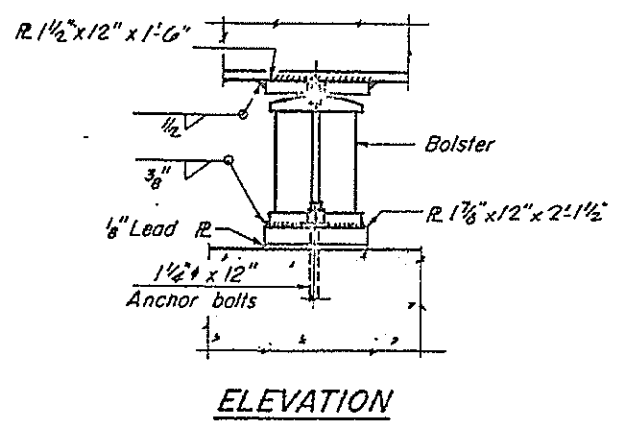
STRUCTURAL STEEL
F.A. RTE. 403-SEC. 1195-3B-2
WHITESIDE COUNTY
STATION 2202+30.00



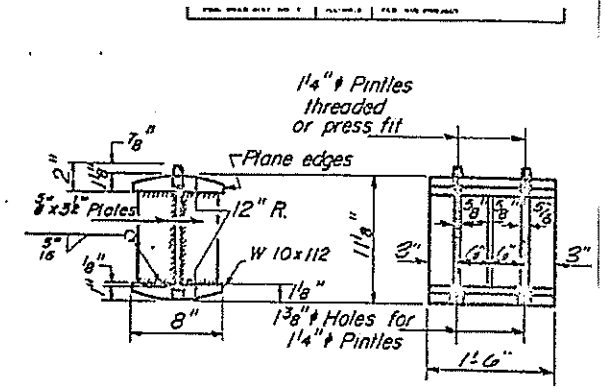
SECTION



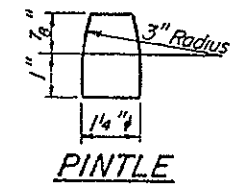
ELEVATION



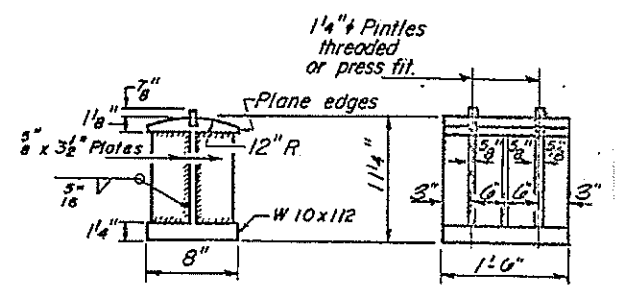
ELEVATION



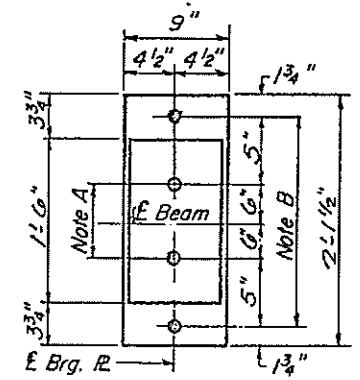
ROCKER



PINTLE

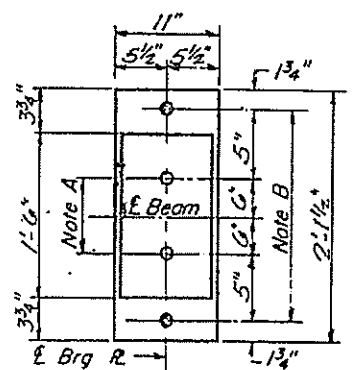


BOLSTER



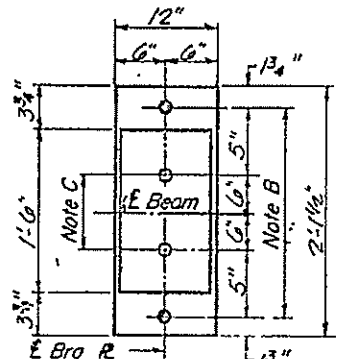
PLAN AT ABUTMENT

NOTE A
 1 3/8" Holes - 1" deep in top R. for pintles Thread or press fit pintles into bottom R.



PLAN AT PIER 1

NOTE B
 1 1/2" Holes for 1 1/2" anchor bolts 1 1/2 x 2 1/2 x 2 1/2 R. Washers under nut



PLAN AT PIER 2

NOTE C
 1 3/8" Holes 1" deep in top R. only for 1 1/4" pintles.

BEARING ASSEMBLY DETAILS