

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HB & 76BR)BP	WINNEBAGO	26	1
ILLINOIS CONTRACT NO. 64L70				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

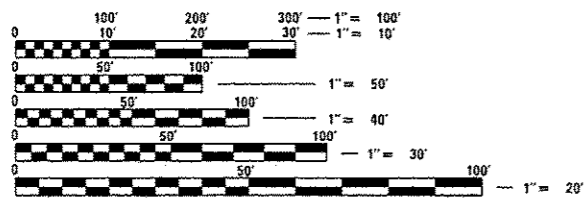
FOR GENERAL NOTES, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 734 (IL 2)  
SECTION (77-1HB & 76BR)BP  
TYPE of IMPROVEMENT: BRIDGE PAINTING  
WINNEBAGO COUNTY

C-92-108-16

D-92-091-16

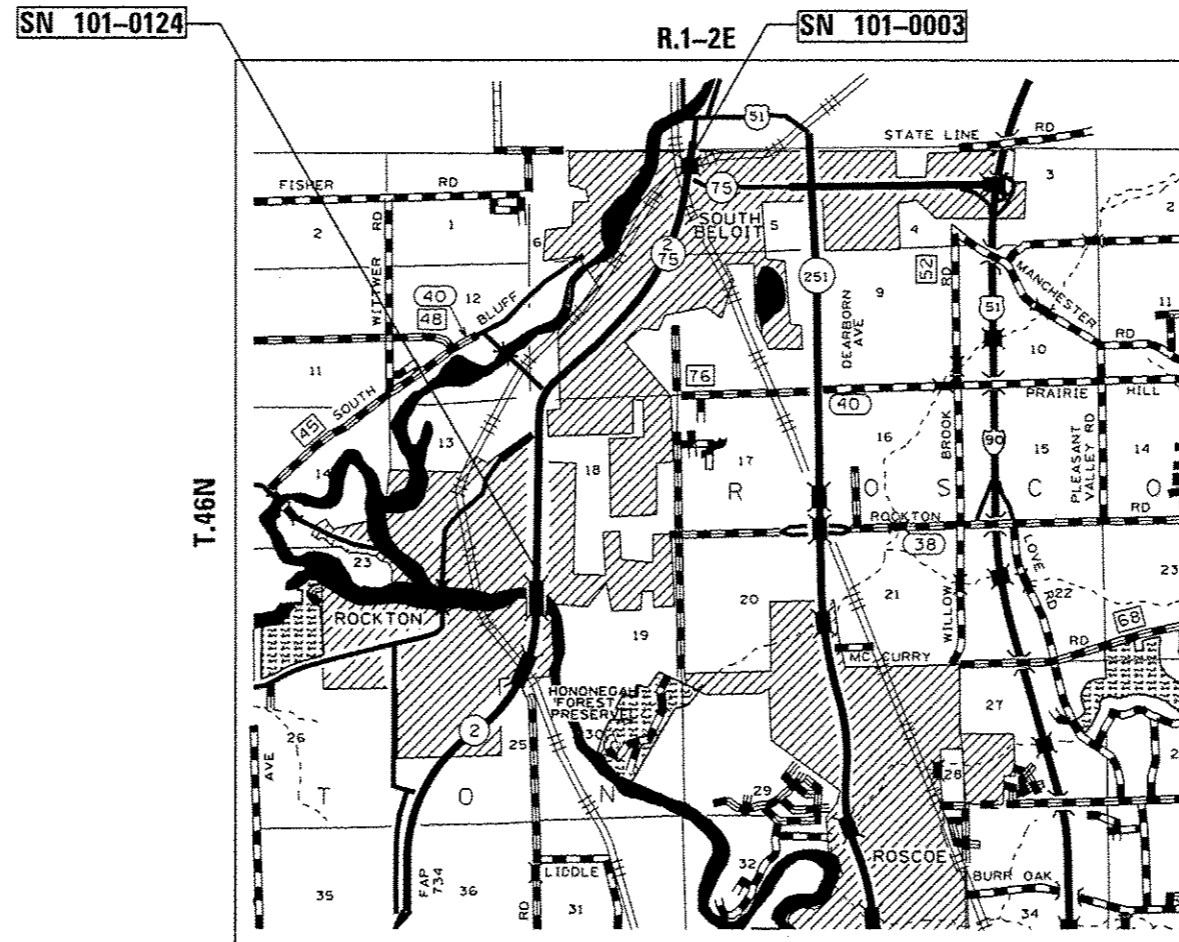


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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. 64L70



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Aug 4 2016*  
*K. Marshall*  
REGIONAL ENGINEER

*Sept 30 2016*  
*Maureen M. Addis*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Sept 30 2016*  
*David Doss*  
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

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# STATE STANDARDS

- 701423-09 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
- 701426-08 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
- 701427-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-05 TRAFFIC CONTROL DEVICES
- 704001-08 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)
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

FILE NAME : D:\BR\Dosa\Winnebago\64L70 Cleaning &	USER NAME : dosadd Painting SN 101-0003 & 101-0124\GDD\64L70	DESIGNED - _____ DRAWN.dgn - _____	REVISED - _____ REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS &amp; STATE STANDARDS</b>	F.A.P. RTE. 734	SECTION (77-1HB & 768R1BP)	COUNTY WINNEBAGO	TOTAL SHEETS 26	SHEET NO. 2
Default	PLOT SCALE = 100.0000 / in.	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____	CONTRACT NO. 64L70 ILLINOIS FED. AID PROJECT				
	PLOT DATE = Aug-04-2016 09:30:09 AM	DATE - _____	REVISED - _____							

# GENERAL NOTES

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:

### SN 101-0003

**GAS AND ELECTRIC:**

ROCK ENERGY COOPERATIVE  
ATTN: ROD MAGNUSON (866) 752-4550  
P.O. BOX 126/ 15229 WILLOWBROOK ROAD  
SOUTH BELOIT, IL 61080

**WATER:**

IL AMERICAN WATER COMPANY  
ATTN: DAVID BAKER (217) 373-3243  
201 DEVONSHIRE DRIVE  
CHAMPAIGN, IL 61820

**TELEPHONE:**

AT&T  
ATTN: HECTOR GARCIA (630) 573-5465  
1000 COMMERCE DRIVE  
OAK BROOK, IL 60523

WIINDSTREAM  
ATTN: ADAM VICKERY (217) 519-8766  
1815 S. MEYERS ROAD, SUITE 900  
OAK BROOK TERRACE, IL 60181

**COMMUNICATIONS:**

CHARTER COMMUNICATIONS  
ATTN: (608) 365-3382  
2016 CRANSTON ROAD  
BELOIT, WI 53511

**WATER AND SEWER:**

CITY OF SOUTH BELOIT  
ATTN: BRIAN HEDRINGTON (815) 389-4323  
519 SOUTH BLACKHAWK BLVD, SUITE 2  
SOUTH BELOIT, IL 61080

### SN 101-0124

**GAS AND ELECTRIC:**

ROCK ENERGY COOPERATIVE  
ATTN: ROD MAGNUSON (866) 752-4550  
P.O. BOX 126/ 15229 WILLOWBROOK ROAD  
SOUTH BELOIT, IL 61080

**WATER AND SEWER:**

VILLAGE OF ROCKTON  
ATTN: GORDON NYGREN (815) 624-7600  
110 E MAIN STREET  
ROCKTON, IL 61072

**TELEPHONE:**

FRONTIER  
ATTN: DONALD BELMORE (815) 544-6171  
2239 NEWBURG ROAD  
BELVIDERE, IL 61008

WIINDSTREAM  
ATTN: ADAM VICKERY (217) 519-8766  
1815 S. MEYERS ROAD, SUITE 900  
OAK BROOK TERRACE, IL 60181

**COMMUNICATIONS:**

CHARTER COMMUNICATIONS  
ATTN: (608) 365-3382  
2016 CRANSTON ROAD  
BELOIT, WI 53511

**IFIBER**

ATTN: LANCE SANDY (815) 753-6075  
3100 SYCAMORE ROAD  
DEKALB, IL 60115

**ELECTRIC:**

COMMONWEALTH EDISON COMPANY  
ATTN: NORA FERNANDEZ  
123 ENERGY AVENUE  
ROCKFORD, IL 61109

**GAS:**

NICOR GAS CO.  
ATTN: BRUCE KOPPANG (630) 388-3046  
1844 FERRY ROAD  
NAPERVILLE, IL 60563

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 SSPC OPI & OP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

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.

RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE. WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE. WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

HAZARDS BEHIND TEMPORARY CONCRETE BARRIER WALL:  
NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 2'-0" 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 2'-0" 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. NO MATERIALS EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE STORED WITHIN 25' OF THE IMPACT ATTENUATORS.

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.

FILE NAME : D:\BR\Draws\Winnebago\64L70 Cleaning & Painting SN 101-0003 & 101-0124\CADD\64L70.DRAWN.dgn	USER NAME : doseda	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.P. RTE. 734	SECTION 177-1MB & 768RBP	COUNTY WINNEBAGO	TOTAL SHEETS 26	SHEET NO. 3
Default	PLOT SCALE : 100.0000 / 1 in.	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____					64L70
	PLOT DATE : Aug-04-2016 09:08:15 AM	DATE - _____	REVISED - _____							ILLINOIS FED. AID PROJECT

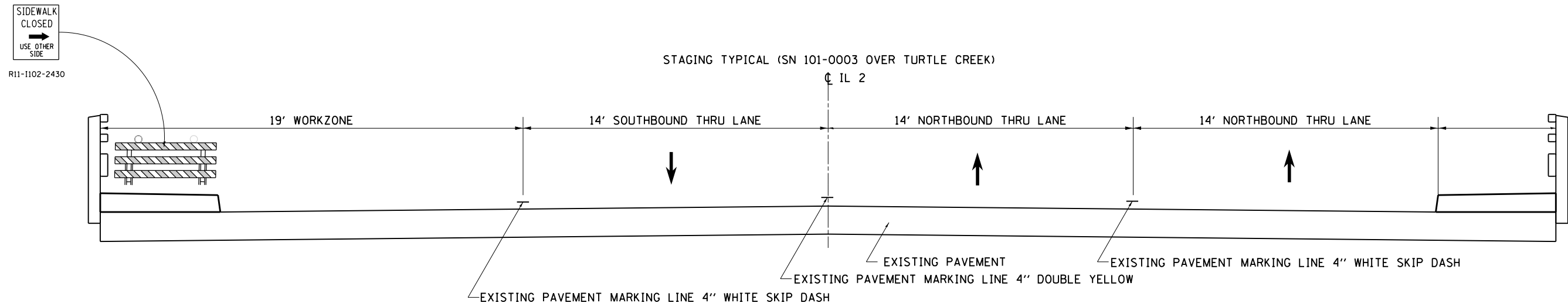
# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN 100% STATE	0014 100% STATE
			TOTAL QUANTITY	WINNEBAGO COUNTY
67100100	MOBILIZATION	L SUM	1	1
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4730	4730
70400100	TEMPORARY CONCRETE BARRIER	FOOT	342.09	342.09
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1026.27	1026.27
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3	3
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1210	1210
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1980	1980
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NO. 1	L SUM	1	1
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NO. 2	L SUM	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1

LS



# TRAFFIC CONTROL PLAN FOR SN 101-0003



### NARRATIVE FOR PEDESTRIAN TRAFFIC CONTROL STAGES

**STAGING**  
MAINTAIN EXISTING PEDESTRIAN TRAFFIC ON IL 2 USING EXISTING EAST SIDEWALK.

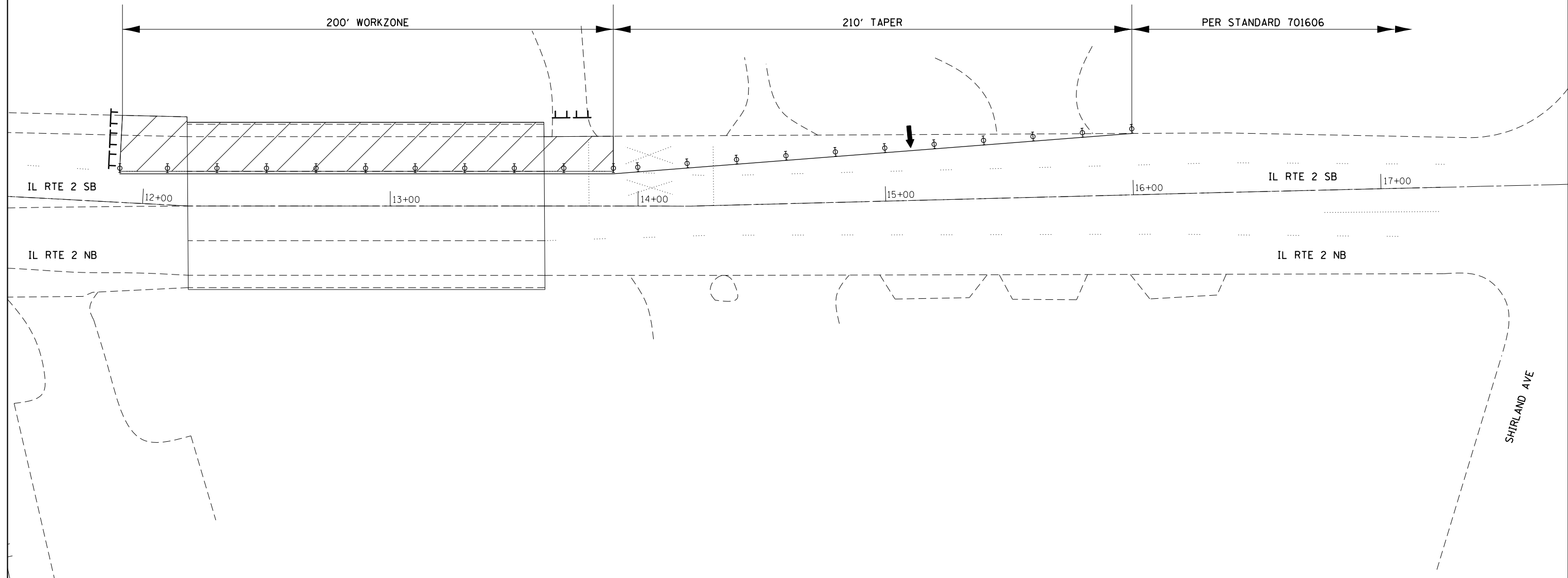
**NOTES:**  
PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.

CONTRACTOR SHALL PROVIDE SIGNAGE AND BARRICADES TO FACILITATE AND PROTECT PEDESTRIANS.

THE CONTRACTOR SHALL PROTECT PEDESTRIANS FROM HAZARDS CAUSED BY CONSTRUCTION ACTIVITIES AT ALL TIMES. THIS INCLUDES, BUT IS NOT LIMITED TO, FLYING DEBRIS FROM WORK.

FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN FOR SN 101-0003</b>	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	F.A.P. RTE. 734	SECTION (77-IHB & 76BRIBP)	COUNTY WINNEBAGO	TOTAL SHEETS 26	SHEET NO. 6
Q:\BR\Draw\Winnebago\64L70 Cleaning &	Pointing SN 101-0003 & 101-0124\CADD\64L70-	DRAWN.dgn - _____	REVISED - _____			ILLINOIS FED. AID PROJECT							
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	PLOT DATE = Aug-04-2016 09:38:31 AM	DATE - _____	REVISED - _____										

# TRAFFIC CONTROL PLAN FOR SN 101-0003



### SYMBOLS

- Arrow board
- Work area
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light

### NOTES

- ① Refer to State Standards 701606.
- ② 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.

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

**TRAFFIC CONTROL PLAN  
FOR SN 101-0003**

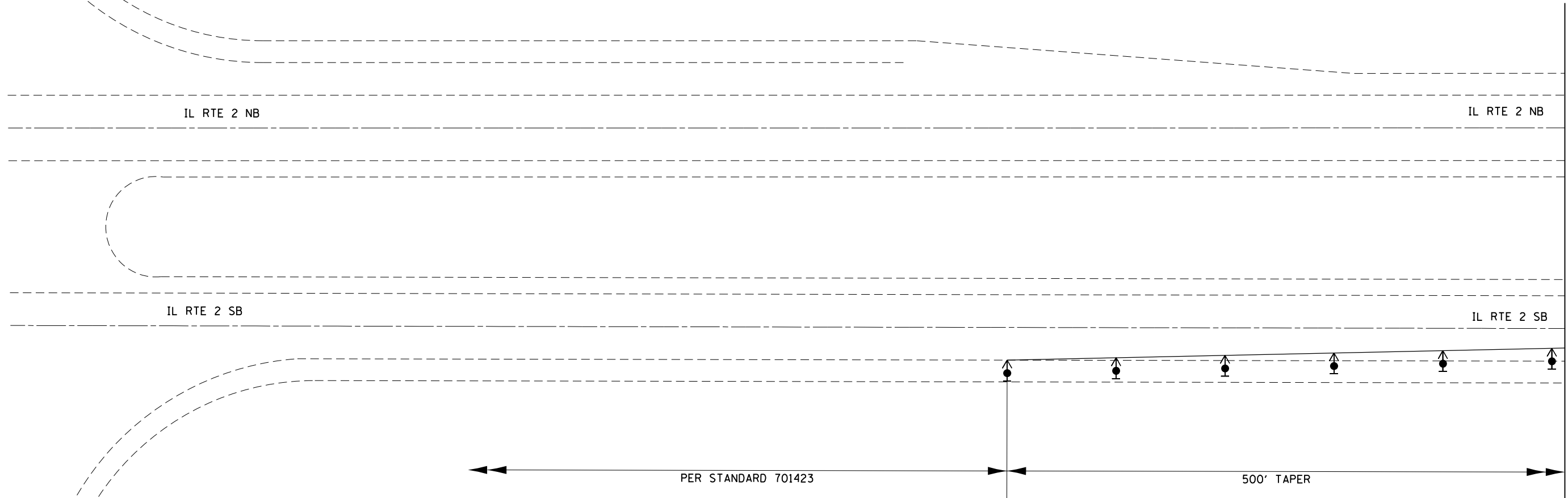
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-IHB & 76BR)BP	WINNEBAGO	26	7
CONTRACT NO. 64L70				
ILLINOIS FED. AID PROJECT				






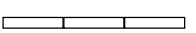


# TRAFFIC CONTROL PLAN FOR SN 101-0124



ROCKTON RD



## 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 guardrail/barrier wall reflector
-  Impact attenuator

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____
D:\BR\Draw\Winnebago\64L70 Cleaning & Pointing SN 101-0003 & 101-0124\CADD\64L70-4	DRAWN.dgn - _____	CHECKED - _____	REVISED - _____
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	PLOT DATE = Aug-04-2016 09:39:58 AM		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

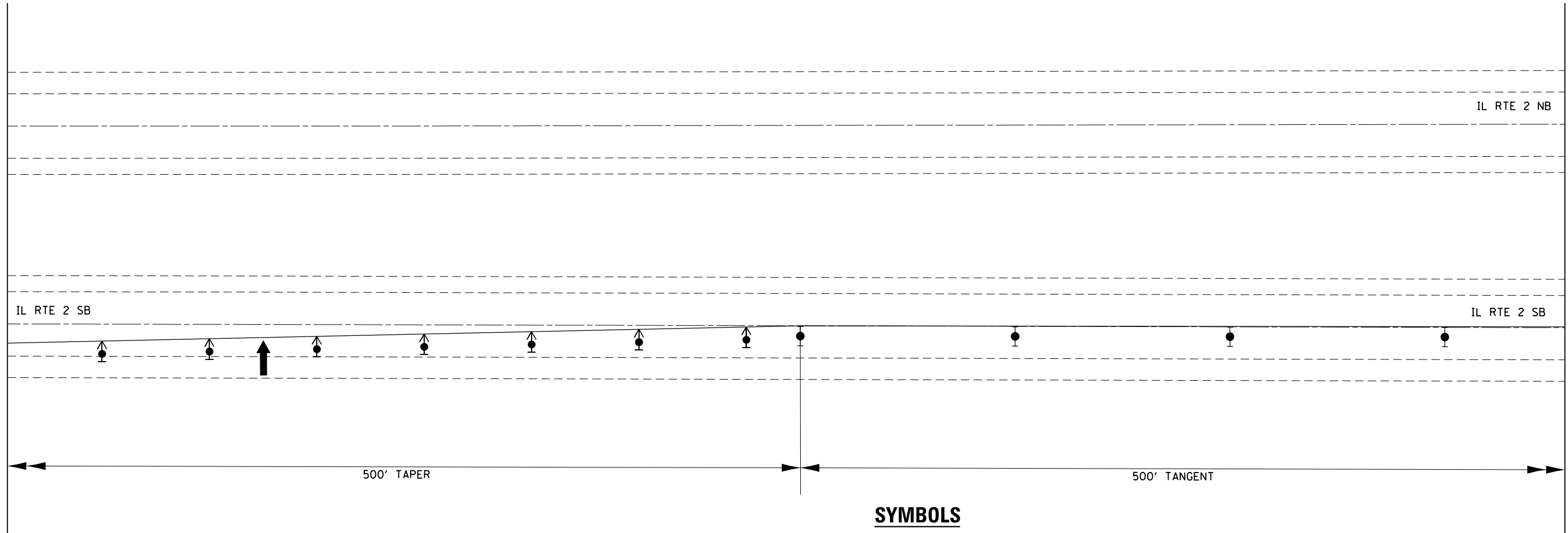
TRAFFIC CONTROL PLAN  
FOR SN 101-0124

SCALE: \_\_\_\_\_ SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-IHB & 76BR)BP	WINNEBAGO	26	8
CONTRACT NO. 64L70			ILLINOIS FED. AID PROJECT	



# TRAFFIC CONTROL PLAN FOR SN 101-0124



### SYMBOLS

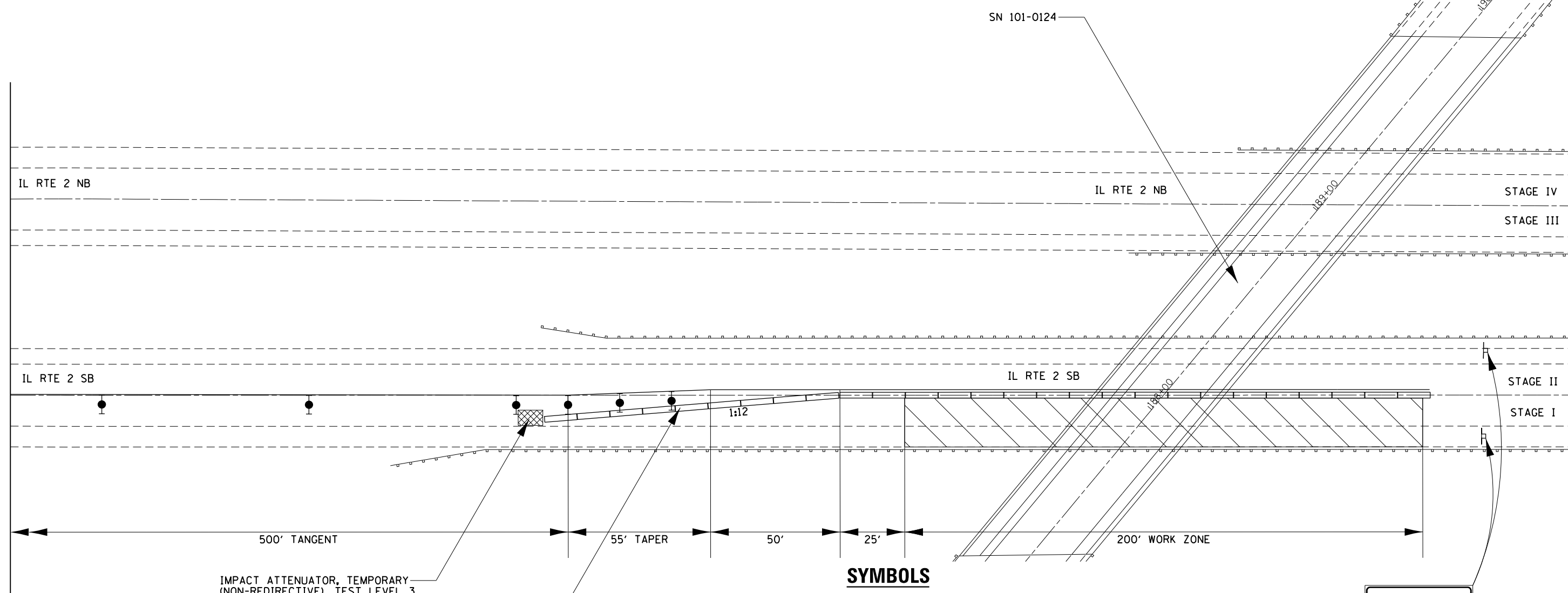
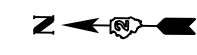
- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional guardrail/barrier wall reflector
- Impact attenuator

### NOTES

- ① Refer to State Standards 701423 and 704001.
- ② 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.

FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN FOR SN 101-0124</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
0:\BR\Draw\Winnebago\64L70 Cleaning & Painting SN 101-0003 & 101-0124\CADD\64L70- DRAWN.dgn - _____	POINTING SN 101-0003 & 101-0124\CADD\64L70- DRAWN.dgn - _____	CHECKED - _____	REVISED - _____			734	(77-IHB & 76BRIBP)	WINNEBAGO	26	9	
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64L70		ILLINOIS FED. AID PROJECT	
	PLOT DATE = Aug-04-2016 09:40:04 AM	DATE - _____	REVISED - _____								

# TRAFFIC CONTROL PLAN FOR SN 101-0124



IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

TEMPORARY CONCRETE BARRIER

### 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 guardrail/barrier wall reflector
- Impact attenuator

END  
WORK ZONE  
SPEED LIMIT

G20-1103(0)-6036

### NOTES

- ① Refer to State Standards 701423 and 704001.
- ② 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.

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

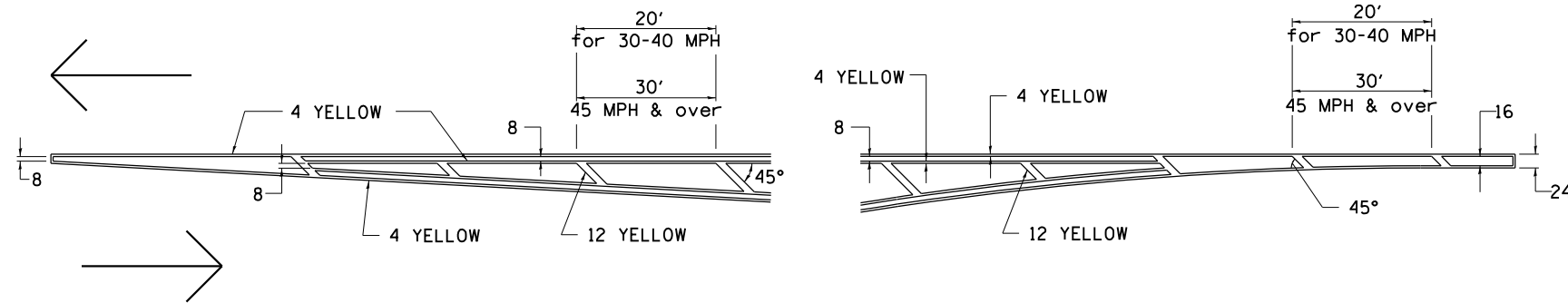
**TRAFFIC CONTROL PLAN  
FOR SN 101-0124**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

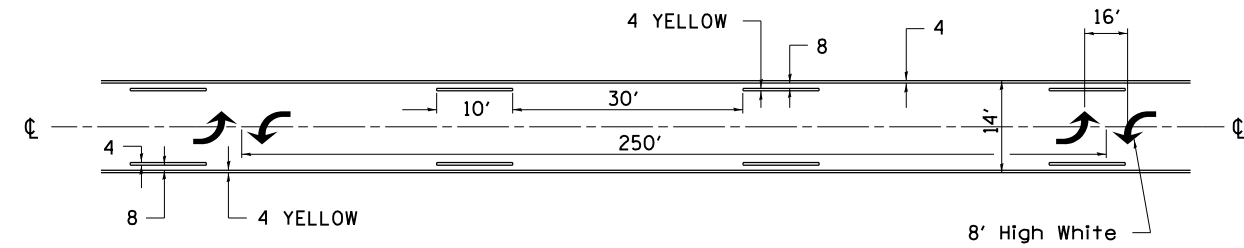
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-IHB & 76BRIBP)	WINNEBAGO	26	10
CONTRACT NO. 64L70				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

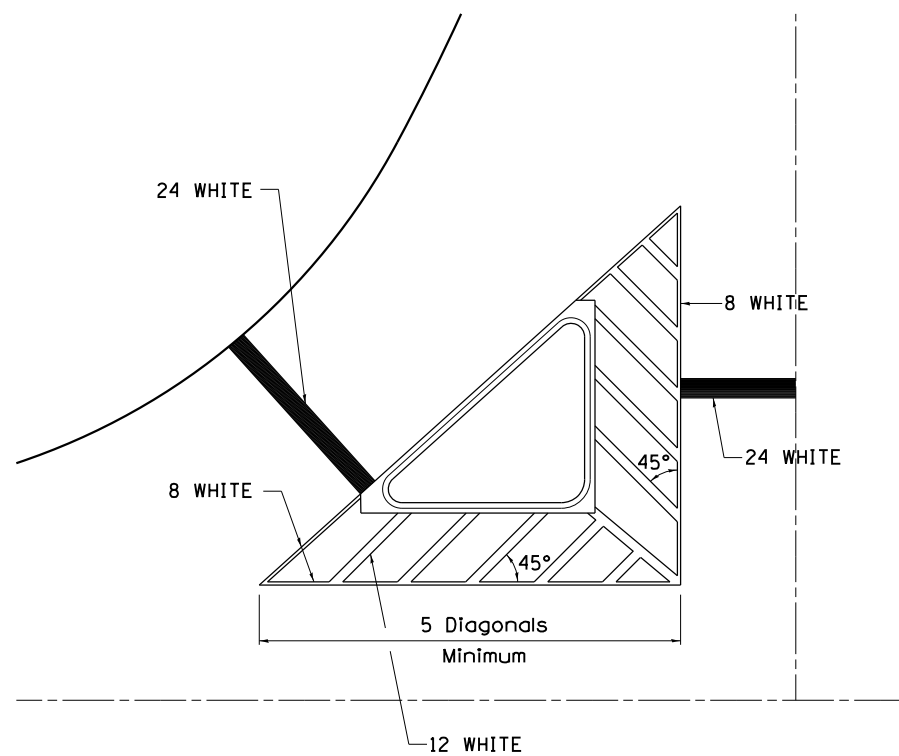


## MEDIAN PAVEMENT MARKING



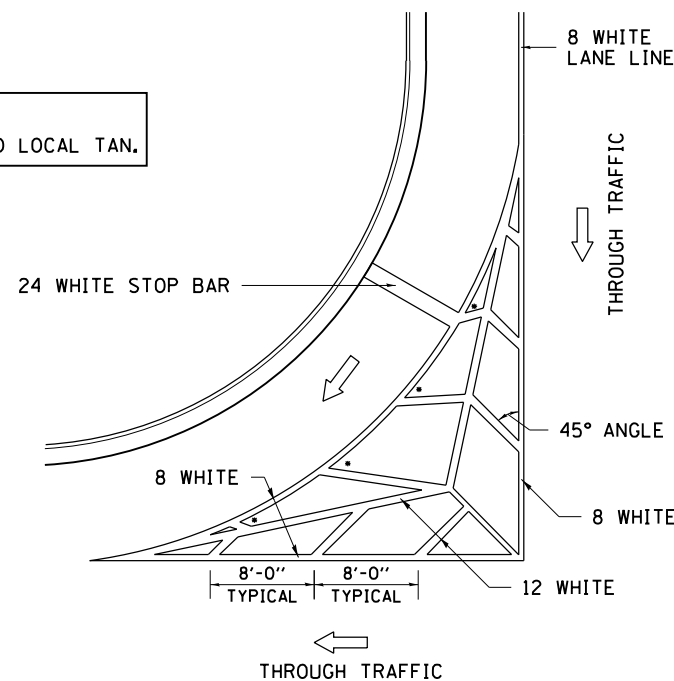
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



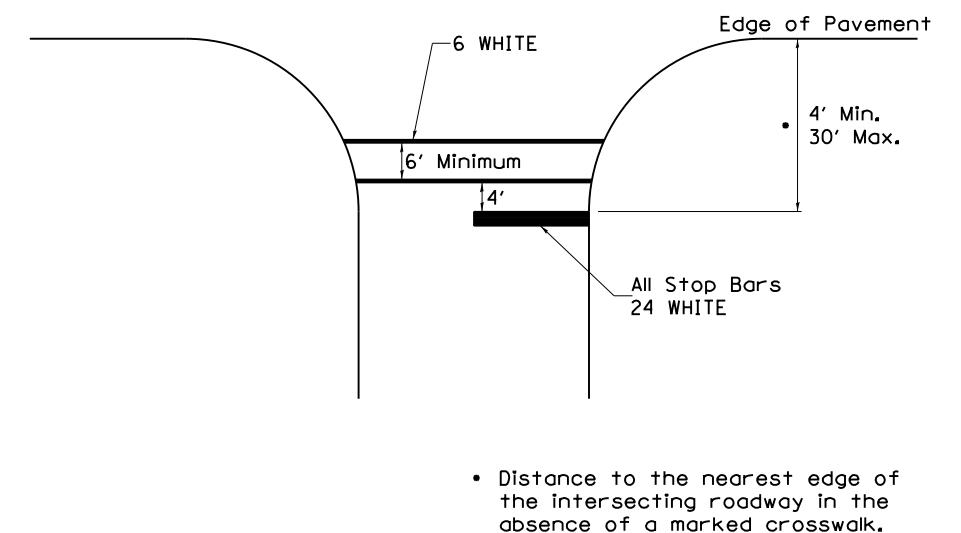
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations

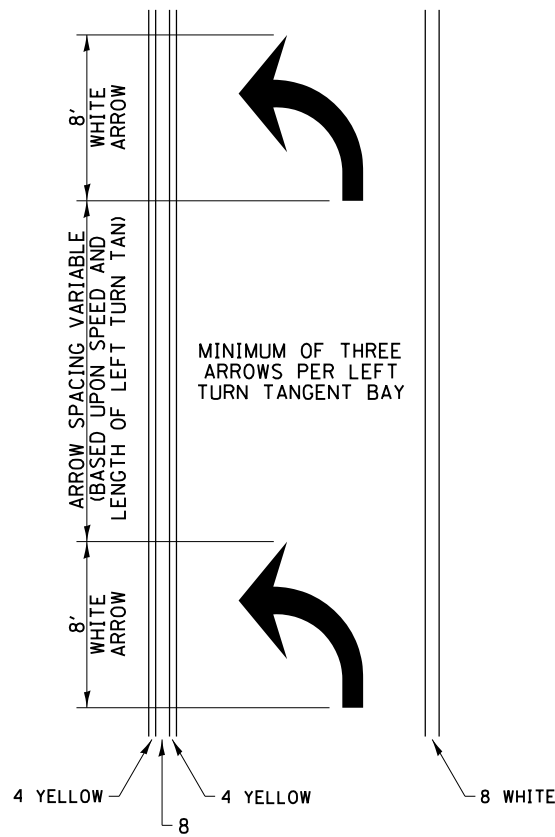


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 6-27-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Winnebago\64L70 Cleaning & Painting SN 101-0003 & 101-0124\CADD\64L70-4-DRAWN.dgn		DRAWN -	REVISED - 3-05-12		734	(77-IHB & T6BRIBP)	WINNEBAGO	26	11			
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 64L70							
PLOT DATE = Aug-04-2016 09:38:59 AM		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

# TYPICAL PAVEMENT MARKINGS

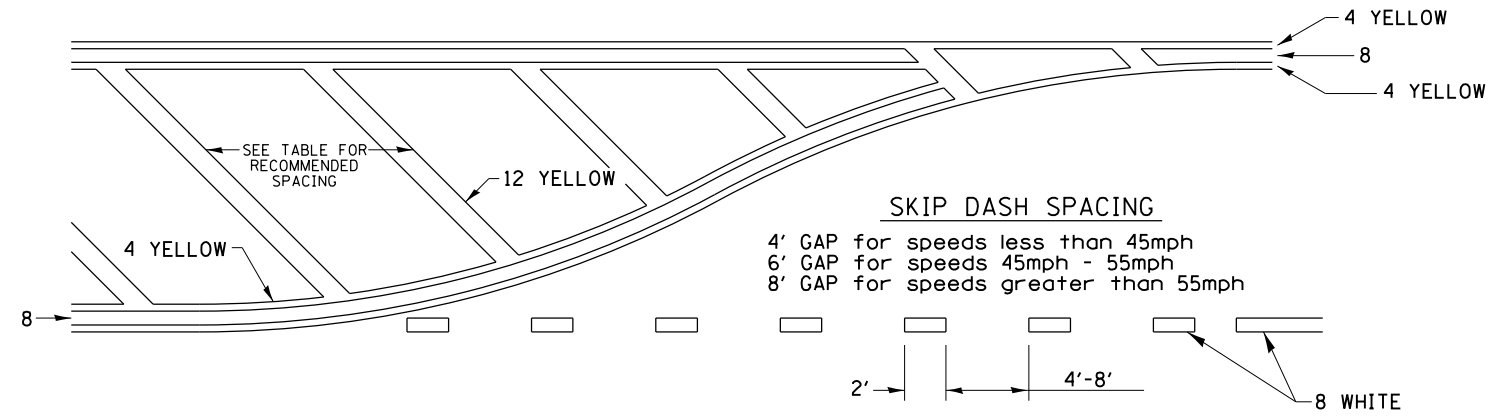
## ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

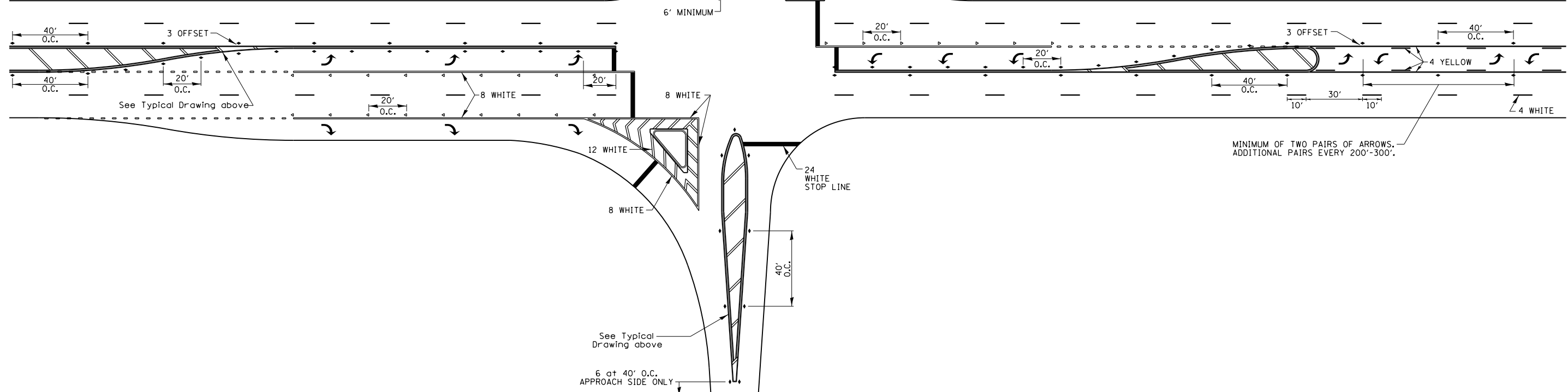
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### 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 = dosddd	DESIGNED -	REVISED - 6-27-14
D:\BR\Draws\Winnebago\64L70 Cleaning & Painting SN 101-0003 & 101-0124\CADD\64L70-4	DRAWN.dgn	CHECKED -	REVISED - 3-05-12
PLOT SCALE = 100.0000' / in.	DATE -	REVISOR -	REVISOR -
PLOT DATE = Aug-04-2016 09:39:05 AM	DATE -	REVISOR -	REVISOR -

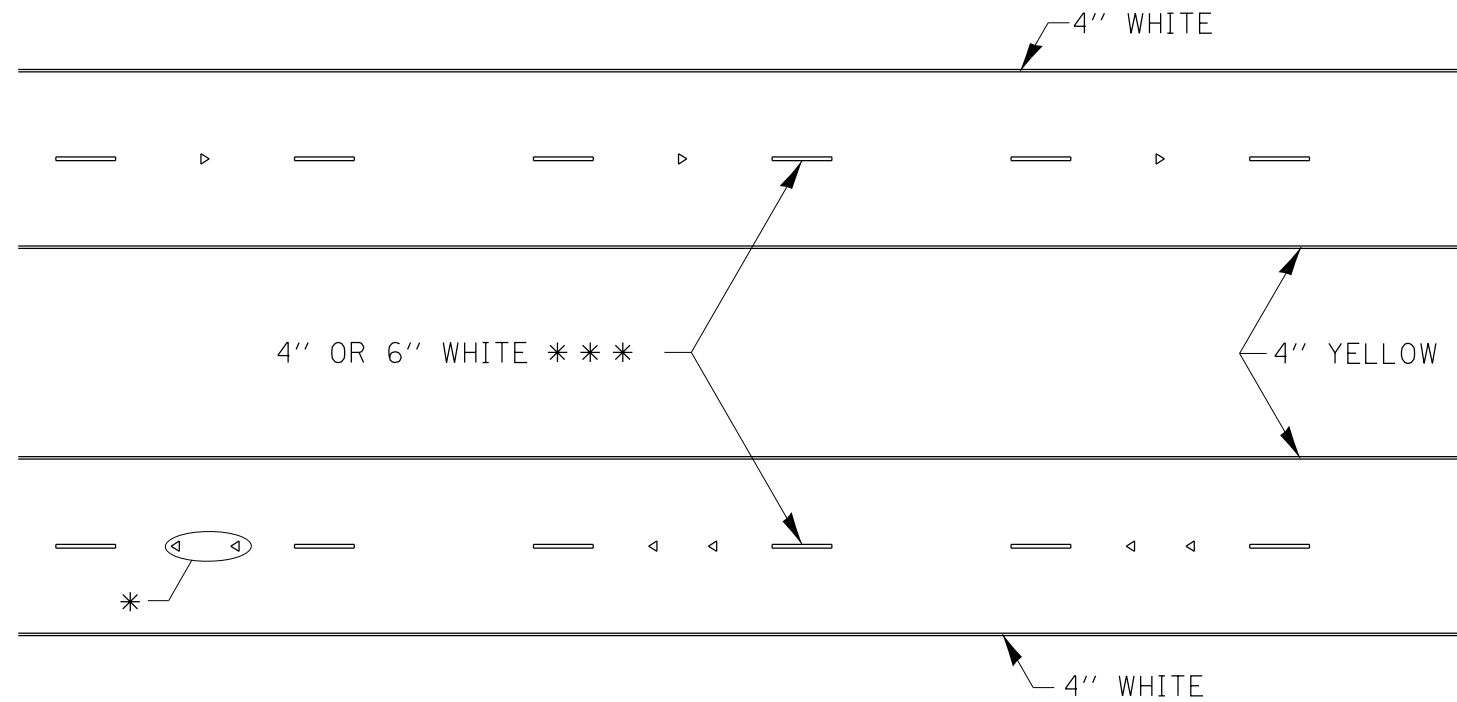
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

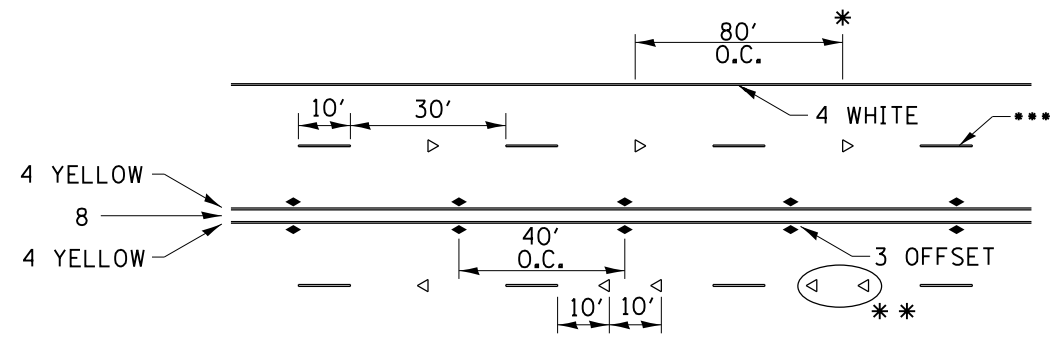
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-IHB & T6BR)BP	WINNEBAGO	26	12
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L70	

# TYPICAL PAVEMENT MARKINGS



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

## MULTI-LANE / DIVIDED



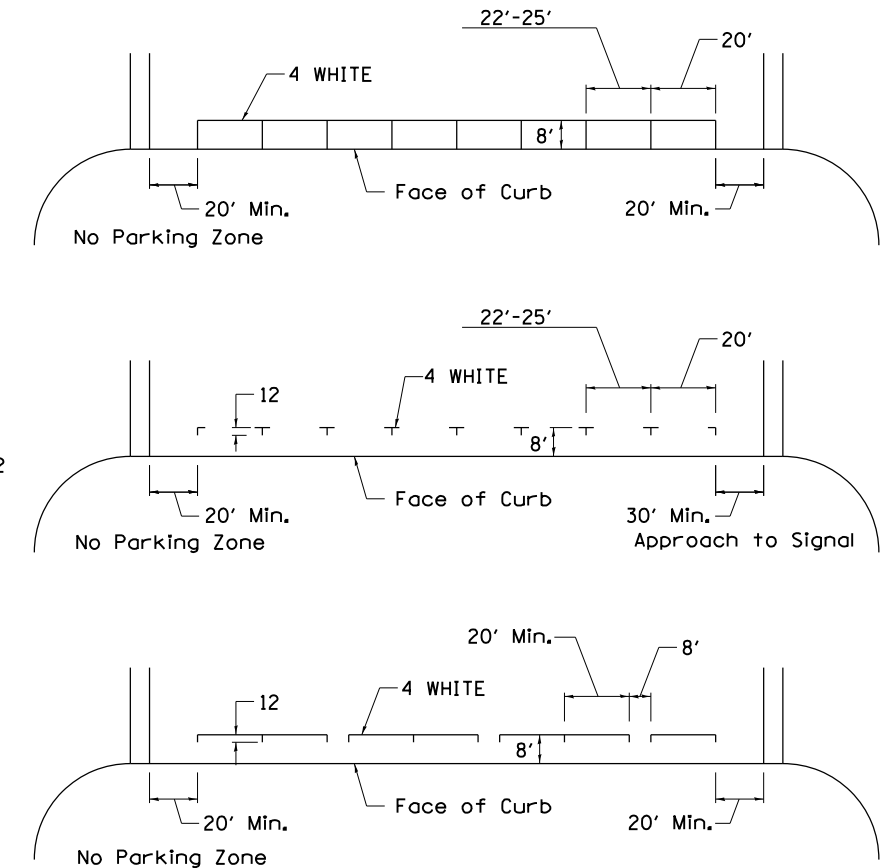
SYMBOLS

- \* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 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.

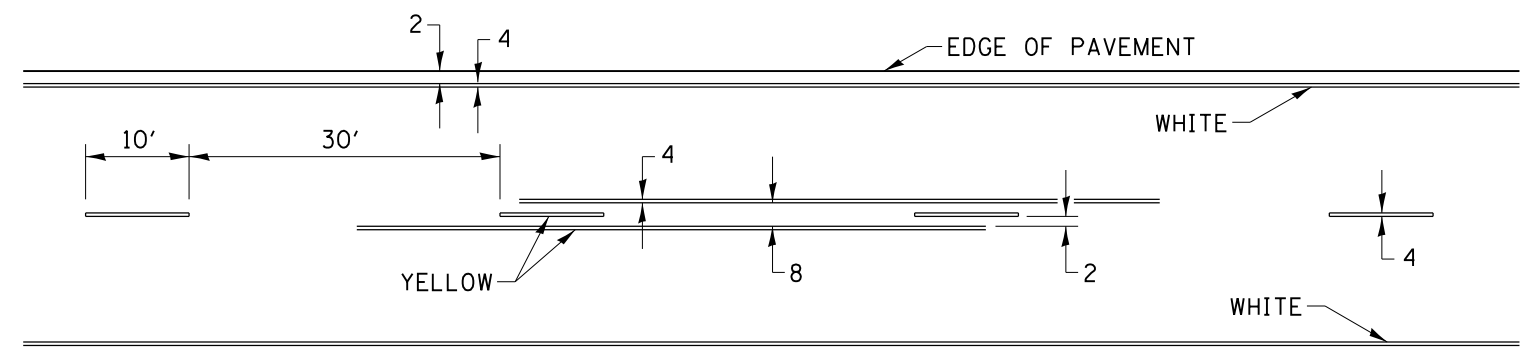
## MULTI-LANE / UNDIVIDED & ONE WAY

(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



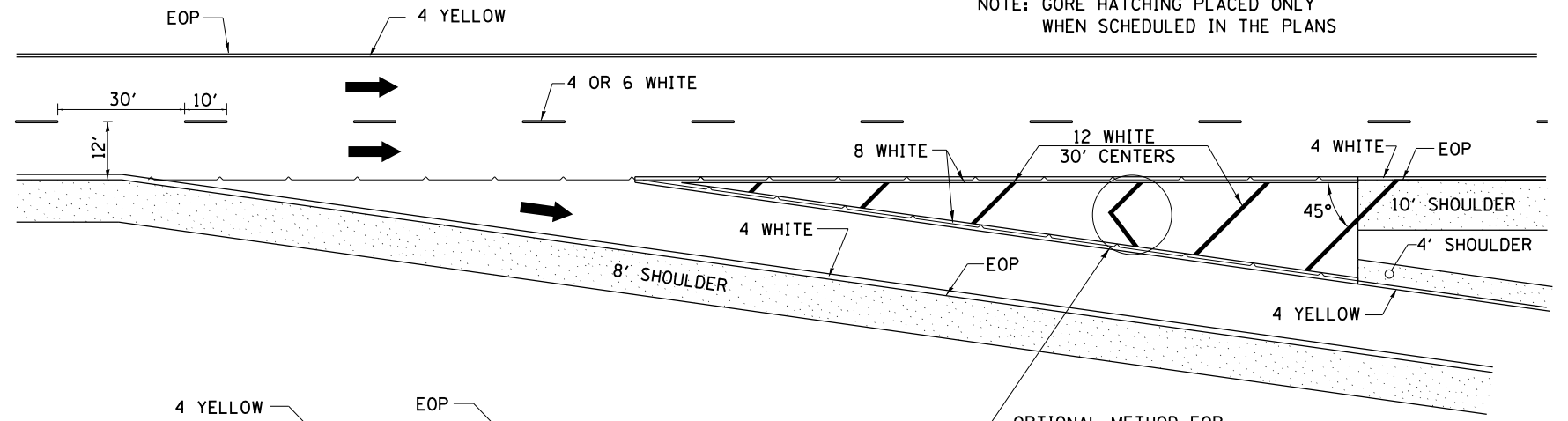
FILE NAME =	USER NAME = dossdd	DESIGNED -	REVISED - 6-27-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draw\Winnebago\64L70 Cleaning & Pointing SN 101-0003 & 101-0124\CADD\64L70-DRAWN.dgn			REVISED - 8-27-13				734	(77-IHB & T6BR)BP	WINNEBAGO	26	13
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - 11-28-12	CONTRACT NO. 64L70								
PLOT DATE = Aug-04-2016 09:39:11 AM	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

# PAINING DETAILS

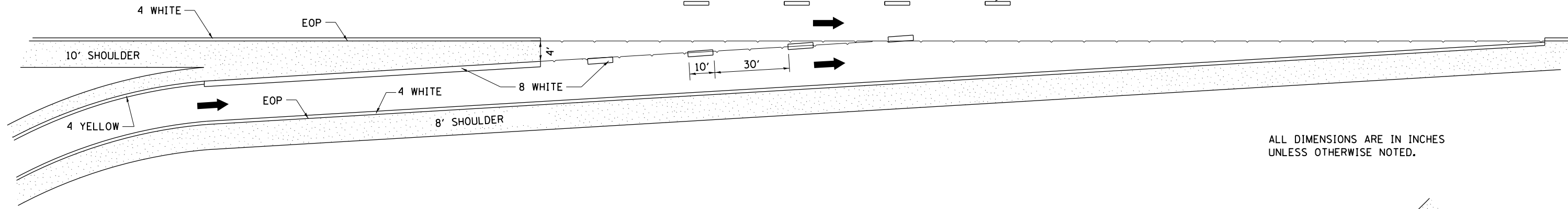
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

## EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

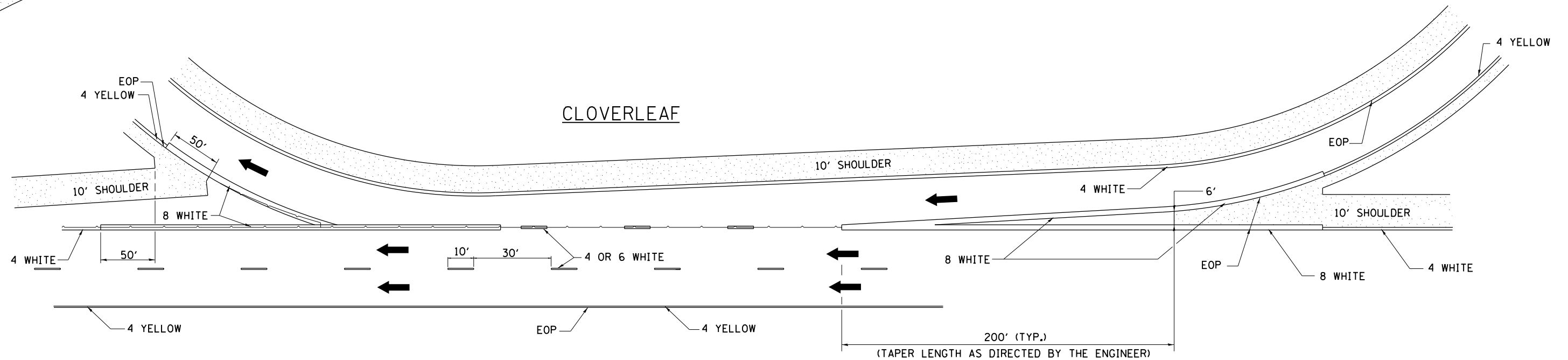


## ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## CLOVERLEAF



FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 8-27-13
D:\BR\Draws\Winnebago\64L70 Cleaning & Painting	SN 101-0003 & 101-0124\CADD\64L70-4	DRAWN -	REVISED - 10-18-11
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Aug-04-2016 09:39:16 AM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-IHB & 76BR)BP	WINNEBAGO	26	14
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L70	

SN 101-0003 ORIG

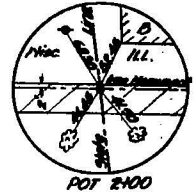
B.M. "D" in S.E. Cor. Stop Wifford Lumber Office  
46' Rl. 1+20 Elev. 743.11

U. S. G. S. B. M. in Wing of Abut. @ N. End of Bridge  
6' L.A. 5+20 Elev. 743.95

B.M. "C" in S. E. Cor. Entrance Stop  
45' Rl. 7+44 Elev. 743.59

B.M. "Q" in N. End Std. Oil Island  
64' Rl. 11+55 Elev. 739.96

U.S.G.S. DATUM  
5TH G.A. 1929



SECTION 78 BR INCLUDES:

a 2 span continuous steel WF-Beam Bridge over  
Turtle Creek; solid pier, closed abutments, 54' roadway  
and two 5' sidewalks, 2 spans of 70'-4" Ste 5+29.82,  
with the exception of furnishing, fabricating, shop painting,  
and delivery of the structural steel and metal handrail.

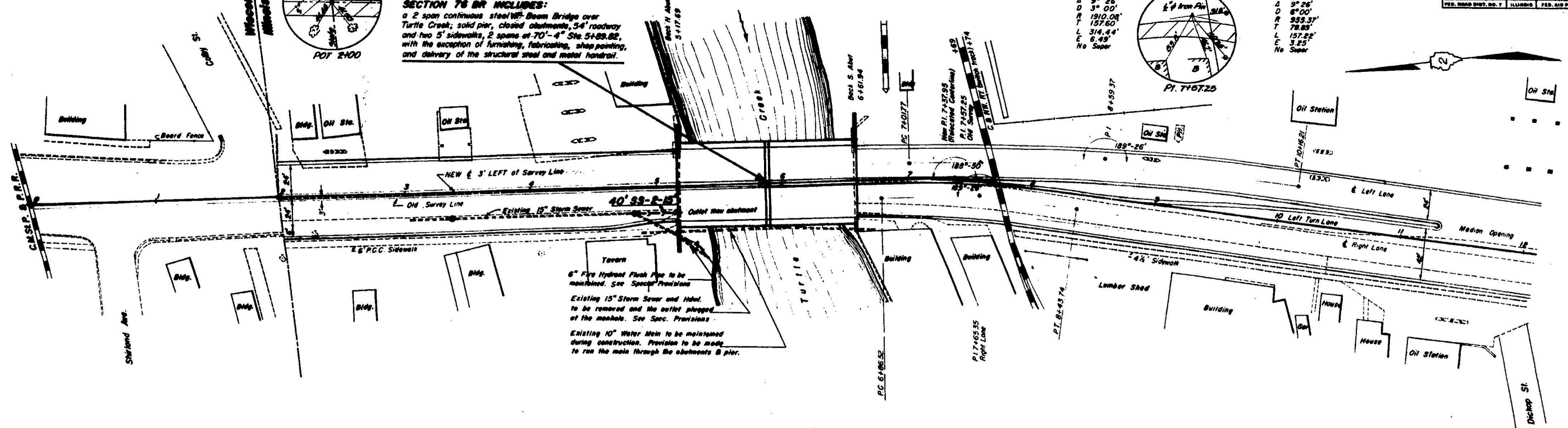
CURVE DATA - Left Lane

A 9° 26'  
D 3° 00'  
R 1910.04'  
T 157.60'  
L 314.44'  
E 6.43'  
No Super

CURVE DATA - Right Lane

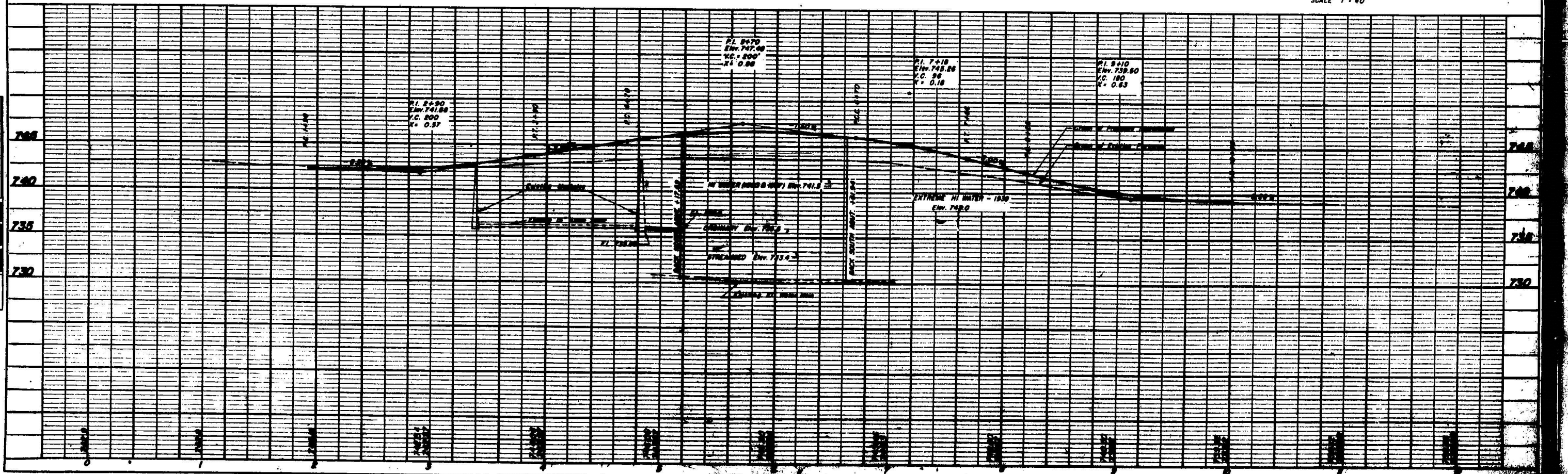
A 9° 26'  
D 6° 00'  
R 955.37'  
T 78.83'  
L 157.22'  
E 3.25'  
No Super

SECTION	SUBSECTION	COUNTY	TOWNSHIP	RANGE
S&B 2	76DR	Winneshago	10	3
REV. 12-7-25 TO 5TH G.A. 1929				
FOR INFO SEE SHEET 1 ILLINOIS 750.000 PROJECT - 7-14-1929				



6" Fire Hydrant Flush Pipe to be  
maintained. See Spec. Provisions  
Existing 15" Storm Sewer and Manhol.  
to be removed and the outlet plugged  
at the manhole. See Spec. Provisions  
Existing 10" Water Main to be maintained  
during construction. Provisions to be made  
to run the main through the abutments & pier.

SCALE 1" = 40'



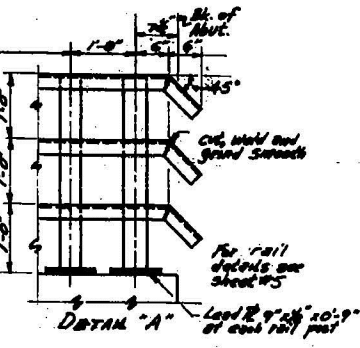
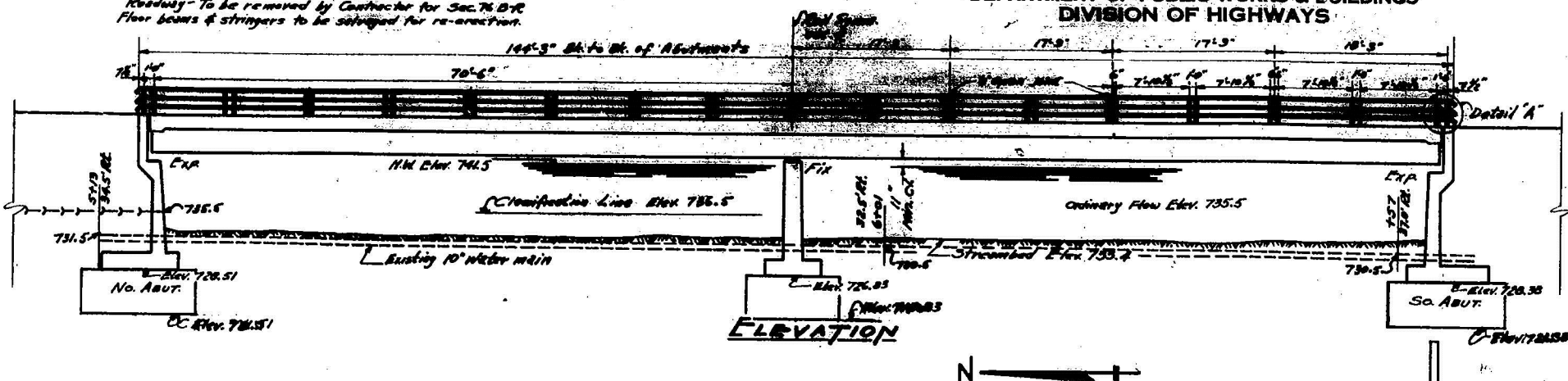
NO.	DESCRIPTION	DATE
1	AS SHOWN	12-7-25
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	

NO.	DESCRIPTION	DATE
1	AS SHOWN	12-7-25
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	

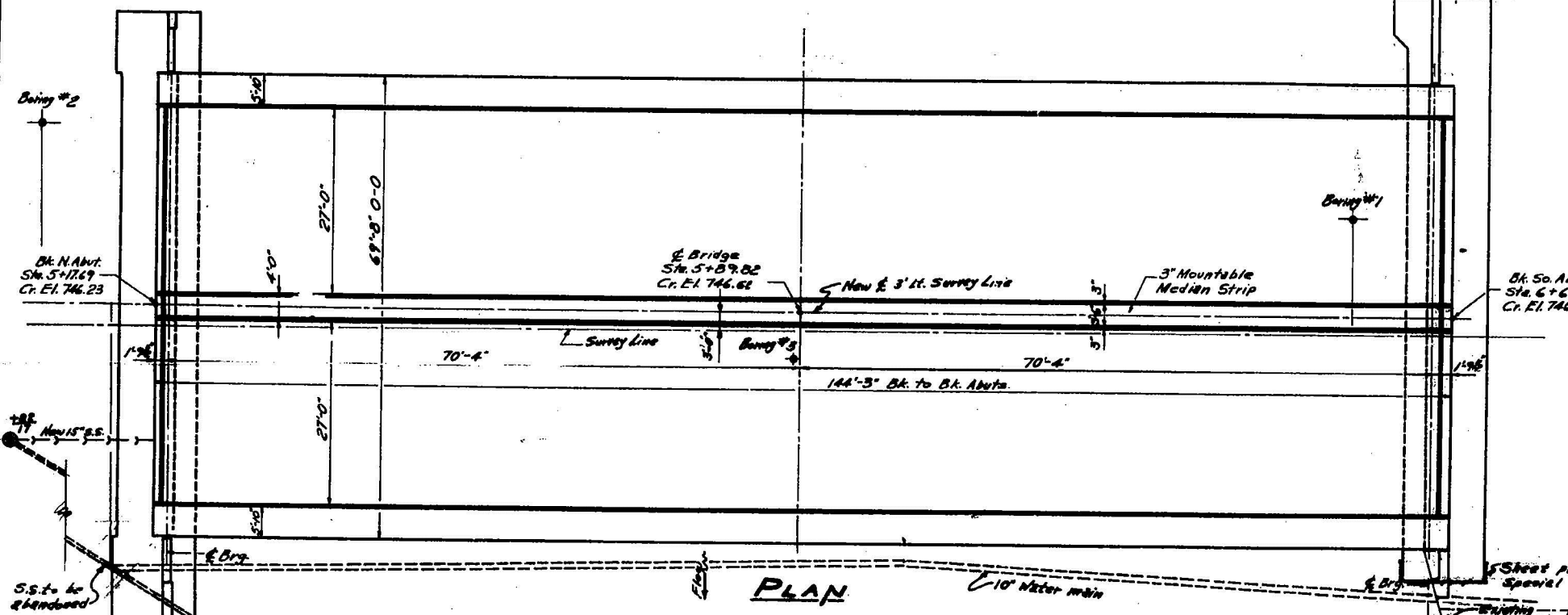
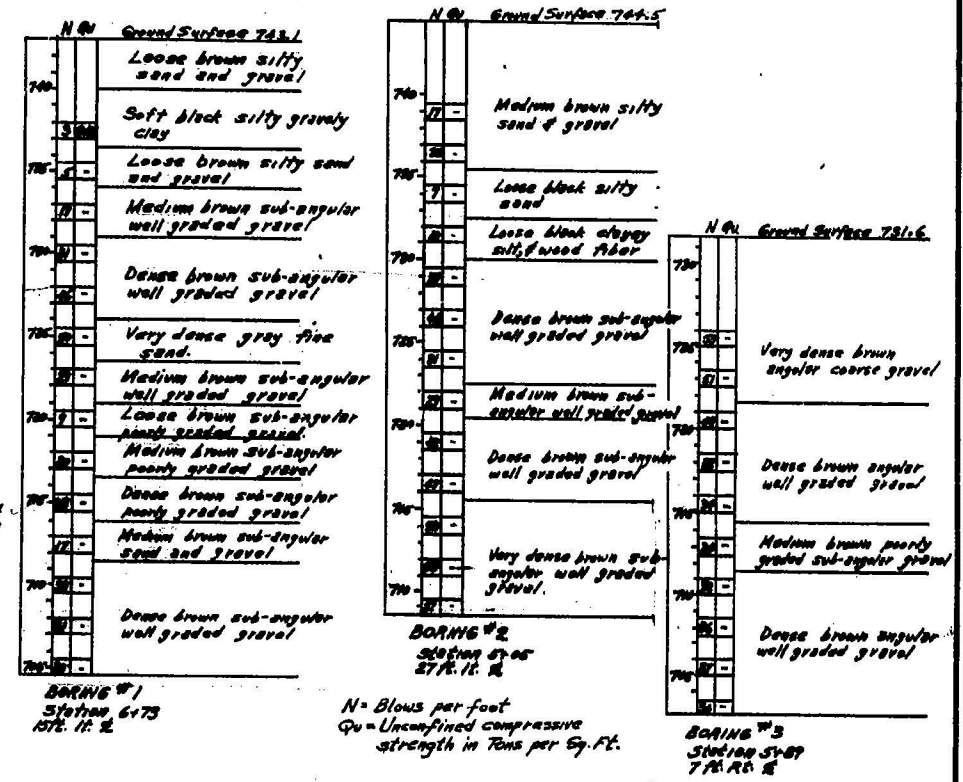
B.M. U.S.G.S. B.M. Top of N.E. Wing 6' Lt. Sta. 5+20 Elev. 743.95  
Also "B" cut in S.E. Corner Ext. Stop 45' R.R. 7+44 Elev. 743.53  
Existing Structure: 140'-0" thru truss with P.C.C. Abuts. 20'  
Roadway - To be removed by Contractor for Sec. 76 B+C  
Floor beams & stringers to be salvaged for re-erection.

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

DATE	BY	CHECKED	SCALE	SHEET NO.
7/27/29	WINNEBAGO	9	4	6 SHEETS



**BORING DATA**



**GENERAL NOTES**

Class X Concrete shall be used throughout except in Pier.  
Class A Concrete shall be used in Pier.  
The Concrete Floor Slab shall be finished in accordance with Article 51.18(2) of the Standard Specifications.  
For Expansion Belts see Special Provisions.  
The back of the Abutments and Wing walls shall be waterproofed from the top of the footing to Elevation 748.0. Waterproofing shall be done in accordance with Article 51.20 of the Standard Specifications.

STATION 5+89.82  
BUILT 195 BY  
STATE OF ILLINOIS  
S.B.I. R.R. 2 Sec. 76 B+C  
F.A. PROJ. F-142(29)  
LOADING H20-S16

**NAME PLATE**  
See Std. 8113

**TOTAL BILL OF MATERIAL**

ITEM	SEC. F	SEC. B
Name Plate	Each	1
Material Manual	Lot. Ft.	343 343
Standard Spec.	Lot.	343 343
Class X Concrete	Cu. Yds.	5216
Class A Concrete	Cu. Yds.	188.9
Reinforcement Bars	Lbs.	71,700
Expansion Belts	Each	10
Class A Expansion for Structures Co. Yds.		530
Class B Expansion for Structures Co. Yds.		1770
Removal of Excess Str.	Each	7
Steel sheet piling	Spant.	840
Steel Cast Concrete	Cu. Yds.	300

DESIGNED	K. Ashmole
CHECKED	H.L. O'Connell
DRAWN	K.O. S.L. Rife
CHECKED	H.L.O.

APPROVED  
April 9 1957  
BY  
*[Signature]*

**WATERWAY INFORMATION**

Drainage Area: 160,000 Acres  
Character:  
Opening Reg'd: 1040 Sq. Ft.  
Present Opening: 1030 Sq. Ft.  
Proposed Opening: 1033 Sq. Ft.



**LOCATION SKETCH**

**DESIGN STRESSES**

f<sub>u</sub> = 18,000 psi Struct. Steel  
f<sub>t</sub> = 8000 psi Reinf.  
f<sub>c</sub> = 5000 psi Concr.  
f<sub>s</sub> = 800 psi Substr.  
n = 10  
Footng Pressure 17 kips/sq ft. - Abut.  
80 " - Pier.  
LOADING H20-S16-44

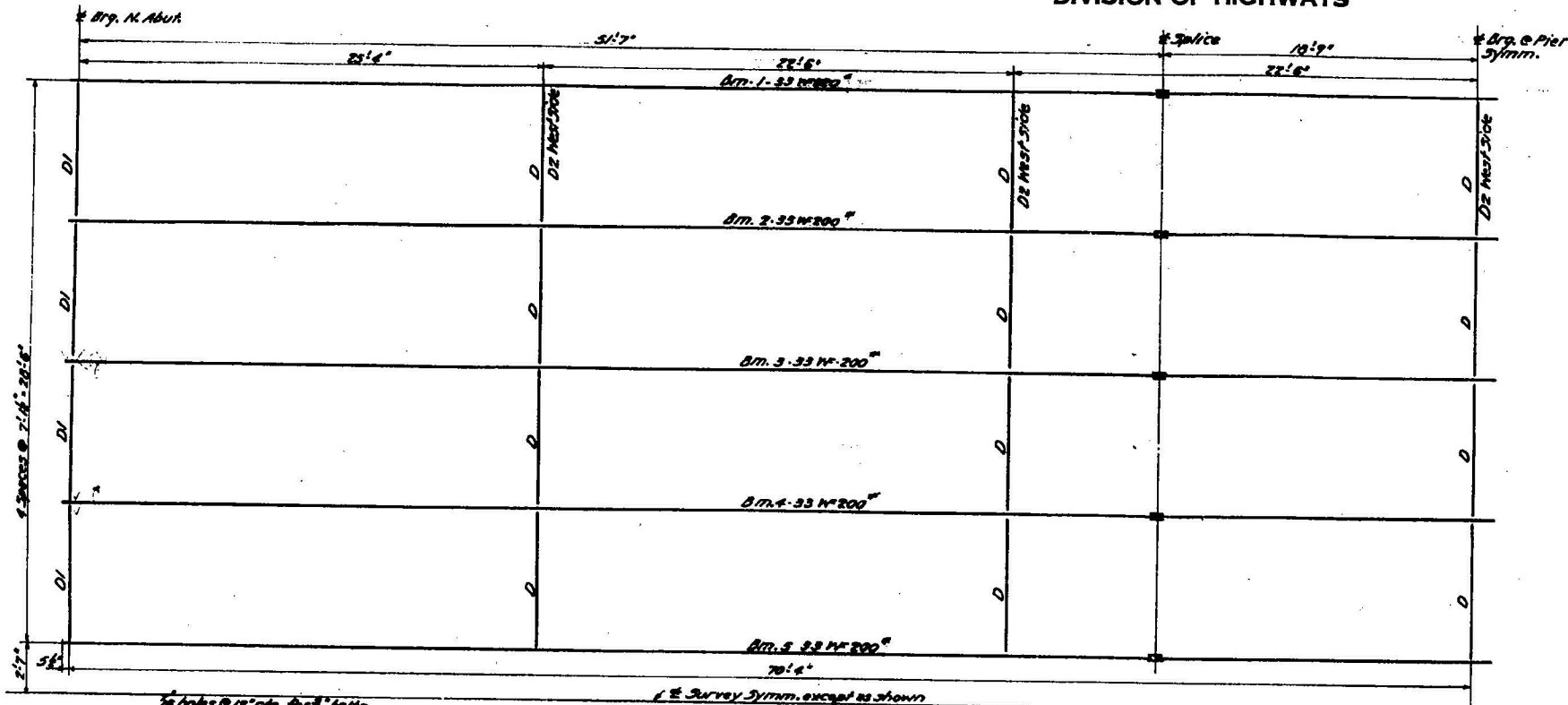
**GENERAL PLAN & ELEVATION**  
**TURTLE CREEK BRIDGE**  
S.B.I. R.R. 2 SEC. 76  
WINNEBAGO COUNTY  
PROJECT F-142(29)  
STATION 5+89.82

Issued for PROJECT 4-2-57  
Scale: 1" = 40' Plan  
Scale: 1" = 20' Elev.

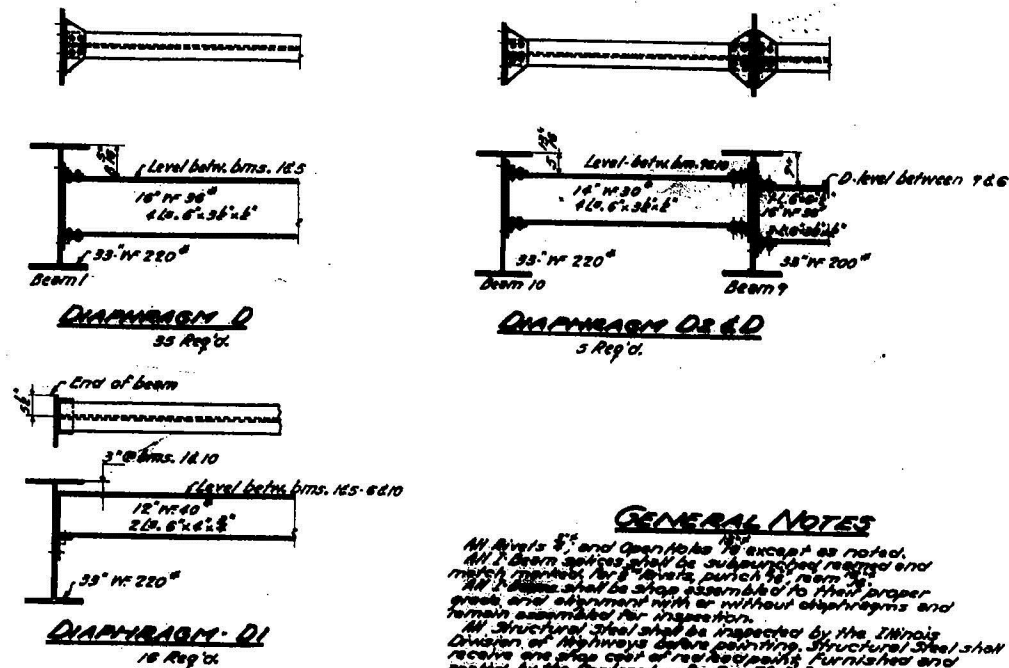


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	SHEET	OF SHEETS
2	76 BR	WINNEBAGO	10	5
DATE: APR 9 1957				

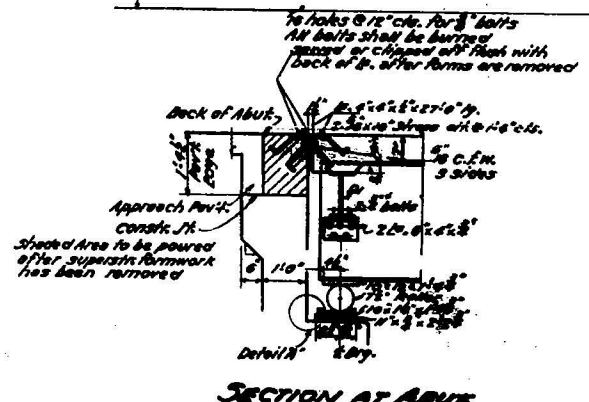


LAYOUT OF STRUCTURAL STEEL

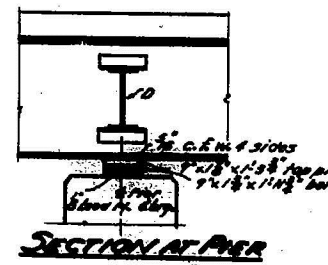


GENERAL NOTES

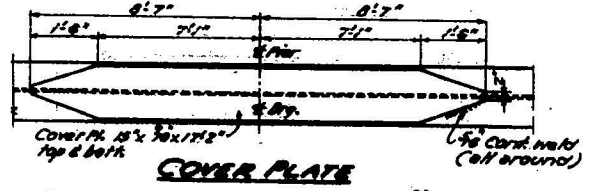
All Rivets 5" and Open Holes 7" except as noted.  
All beam sections shall be subjected to required end  
moment checks for 5' rivets, but not for 3' rivets.  
All I-beams shall be shop assembled to their proper  
grade and alignment with or without obstructions and  
remain assembled for inspection.  
All Structural Steel shall be inspected by the Illinois  
Division of Highways before painting. Structural Steel shall  
receive one coat of red lead paint, furnished and  
applied by the Contractor for Sec. 76 BR.  
Welding plates, angles, gusset plates and anchor bolts  
shall be painted before painting in accordance  
with the specifications. Structural Steel shall be  
included for payment as Structural Steel. Anchor bolts  
shall be set before riveting obstructions over supports.  
Structural Steel shall receive two coats of  
minimum paint, furnished and applied by the  
Contractor for Sec. 76 BR.  
Paint shall include same as for Structural Steel except  
that anchors shall not be painted.



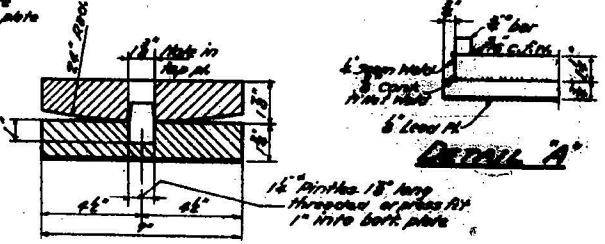
SECTION AT ABUT



SECTION AT PIER

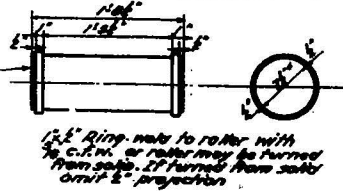


COVER PLATE

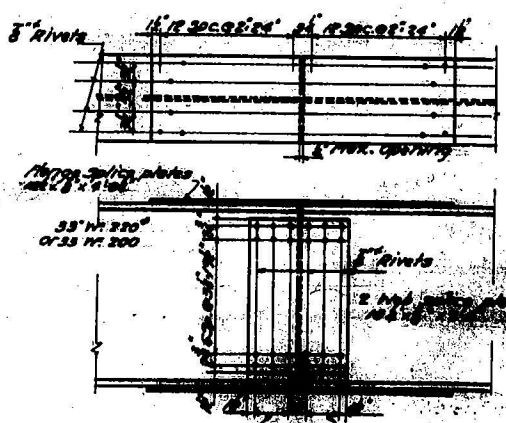


DETAIL A

DEG. PLATE OF PIER



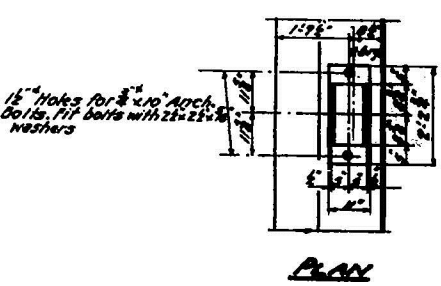
ROLLER DETAIL



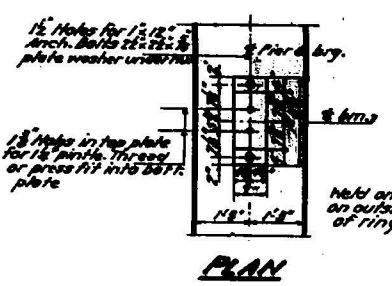
DETAIL OF SPlice



DIMENSION DIAGRAM



PLAN

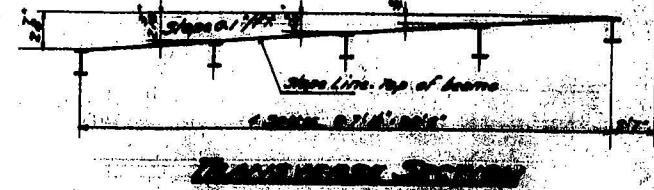


PLAN

DESIGNED	K. Oelmu
CHECKED	2/2/57
DRAWN	K.O.
CHECKED	MLO

DATE	APRIL 9 1957
APPROVED	[Signature]

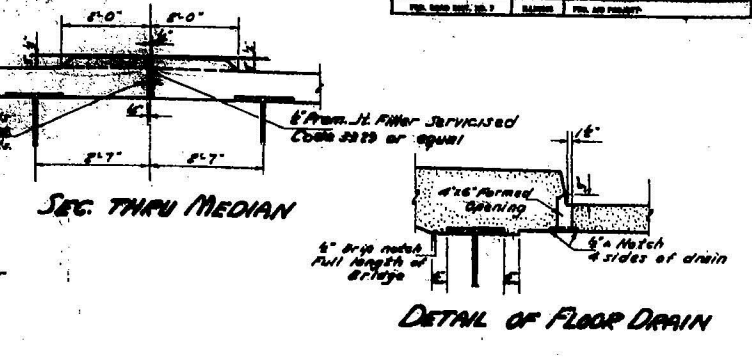
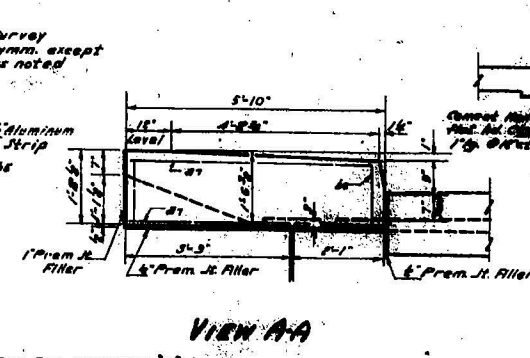
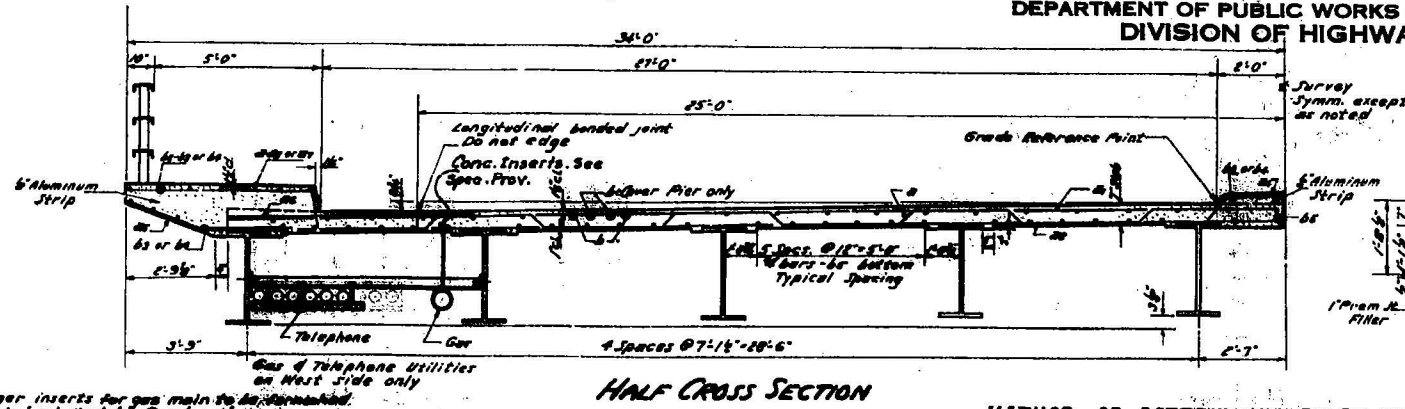
STRUCTURAL STEEL DETAILS



TRANSVERSE SECTION

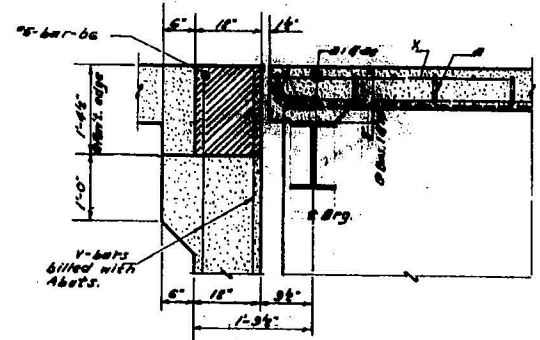
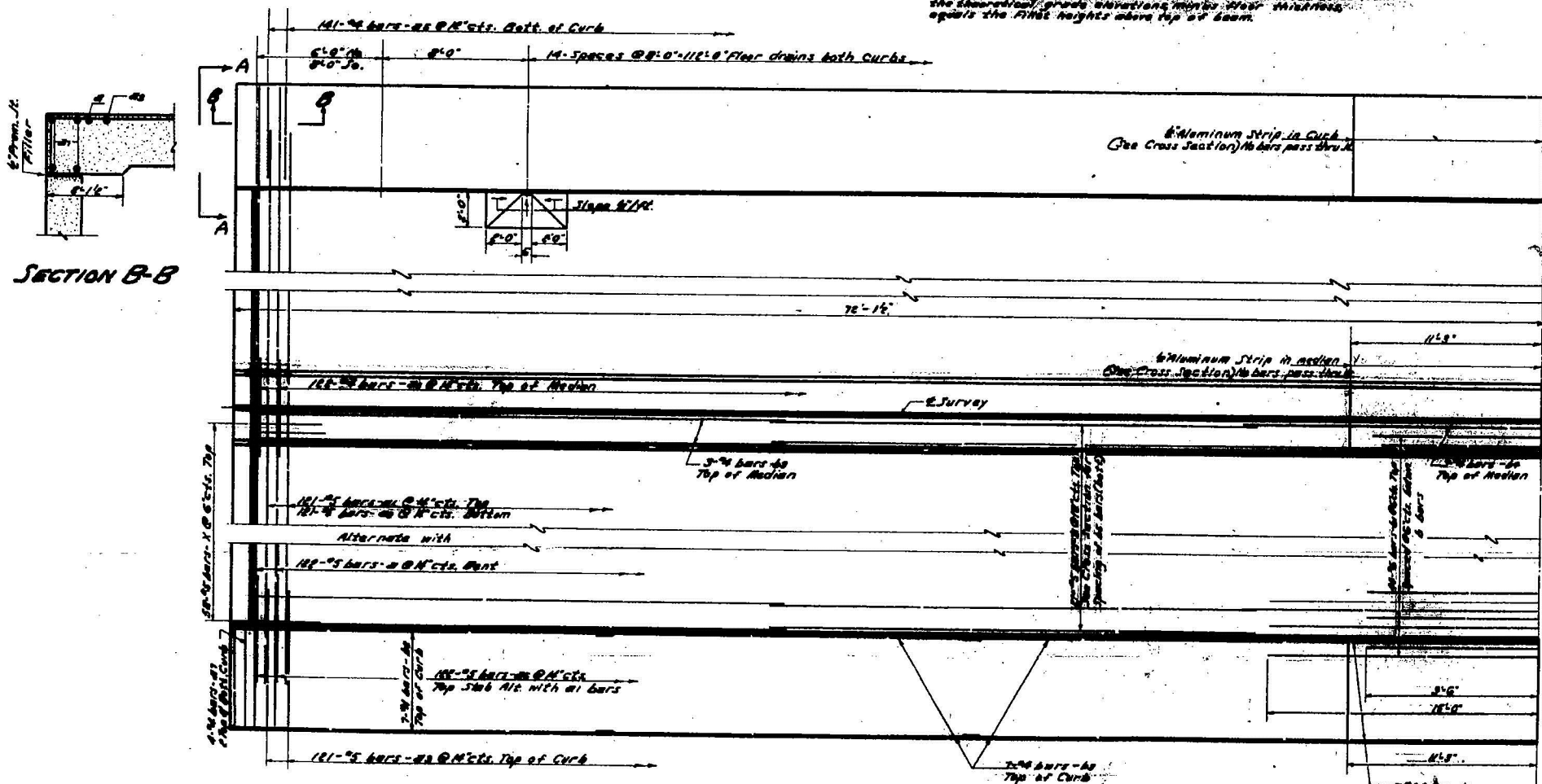
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

SHEET NO.	18	SHEET NO.	18
DATE	7-23-34	DATE	7-23-34
PROJECT	WINNEBAGO	PROJECT	WINNEBAGO
SCALE	1" = 10'	SCALE	1" = 10'

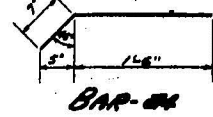
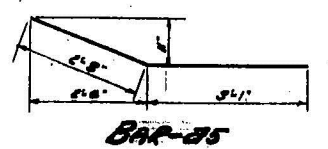
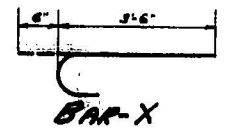


Hanger inserts for gas main to be disconnected and installed by Contractor. Cost to be incidental. All material used to hang telephone conduits shall be furnished and installed by Wisconsin Telephone Co.

**METHOD OF DETERMINING FILLET HEIGHT - 1"**  
Apply an Structural Steel Tee beam, elevations of the top flanges of the beam shown as taken at intervals not to exceed 10 ft. from these elevations. Plot the position of deflection for these points determined from Dead Load Deflection Diagram. The elevation is obtained by subtracting the theoretical grade elevations minus steel thickness against the fillet height above top of beam.

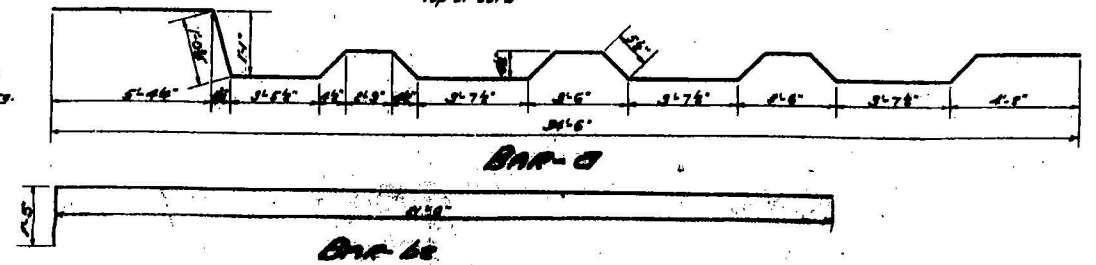
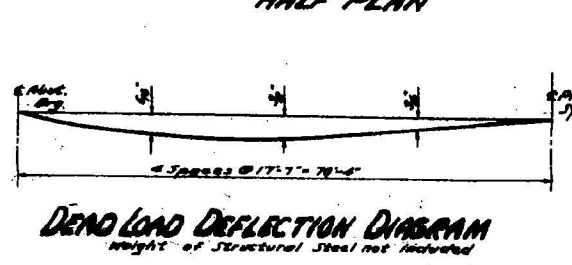


**SECTION B-B**



**BILL OF MATERIAL**

SUPERSTRUCTURE				
BAR No.	SIZE	LENGTH	SHAPE	
1	1/2"	75	3650	U
2	1/2"	75	3116	U
3	1/2"	75	3111	U
4	1/2"	75	790	U
5	1/2"	75	247	U
6	1/2"	75	218	U
7	1/2"	75	218	U
8	1/2"	75	218	U
9	1/2"	75	218	U
10	1/2"	75	218	U
11	1/2"	75	218	U
12	1/2"	75	218	U
13	1/2"	75	218	U
14	1/2"	75	218	U
15	1/2"	75	218	U
16	1/2"	75	218	U
17	1/2"	75	218	U
18	1/2"	75	218	U
19	1/2"	75	218	U
20	1/2"	75	218	U
21	1/2"	75	218	U
22	1/2"	75	218	U
23	1/2"	75	218	U
24	1/2"	75	218	U
25	1/2"	75	218	U
26	1/2"	75	218	U
27	1/2"	75	218	U
28	1/2"	75	218	U
29	1/2"	75	218	U
30	1/2"	75	218	U
31	1/2"	75	218	U
32	1/2"	75	218	U
33	1/2"	75	218	U
34	1/2"	75	218	U
35	1/2"	75	218	U
36	1/2"	75	218	U
37	1/2"	75	218	U
38	1/2"	75	218	U
39	1/2"	75	218	U
40	1/2"	75	218	U
41	1/2"	75	218	U
42	1/2"	75	218	U
43	1/2"	75	218	U
44	1/2"	75	218	U
45	1/2"	75	218	U
46	1/2"	75	218	U
47	1/2"	75	218	U
48	1/2"	75	218	U
49	1/2"	75	218	U
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96	1/2"	75	218	U
97	1/2"	75	218	U
98	1/2"	75	218	U
99	1/2"	75	218	U
100	1/2"	75	218	U
X	218	75	410	C

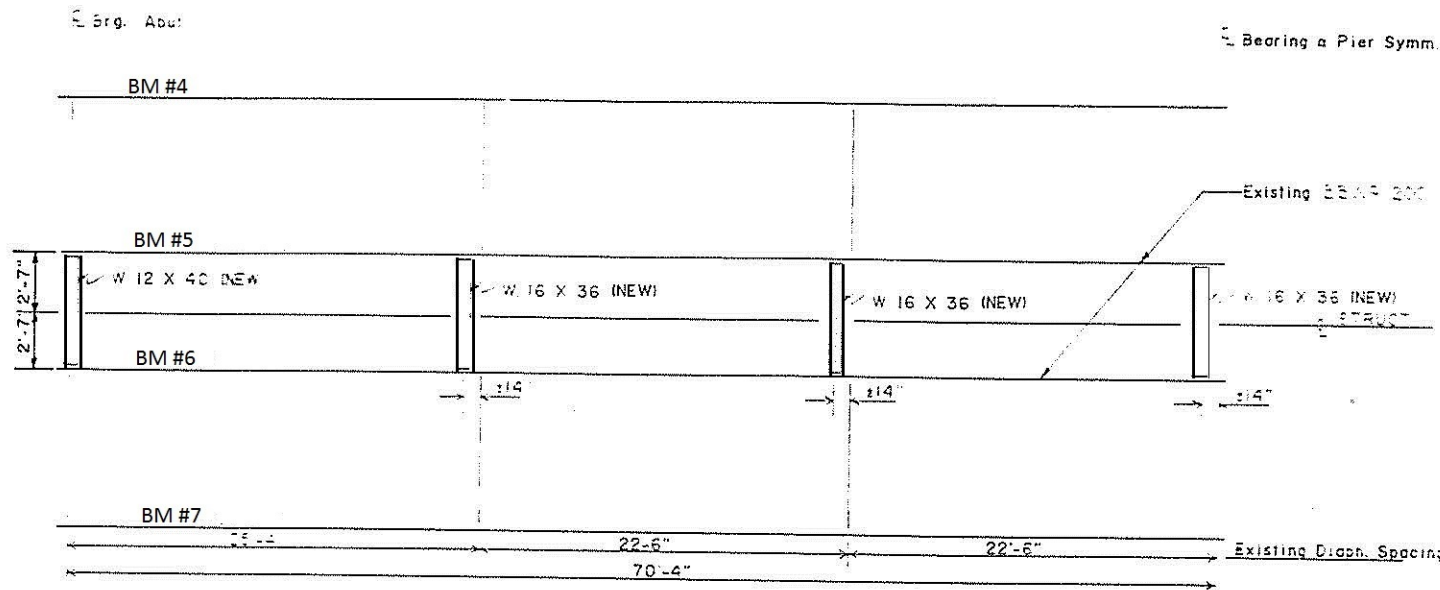


DESIGNED K. Gebhardt  
CHECKED R. Brown  
DRAWN K.O.  
CHECKED K.O.

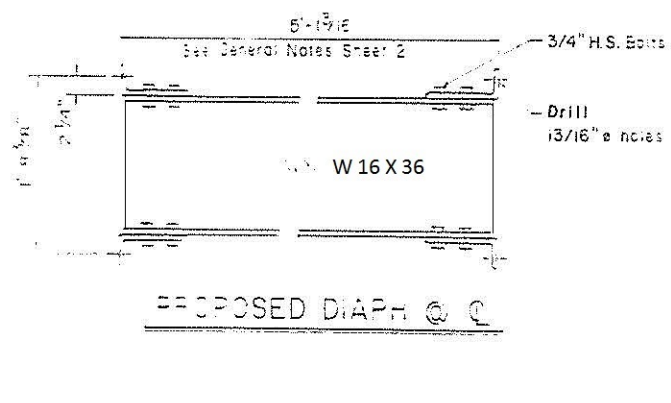
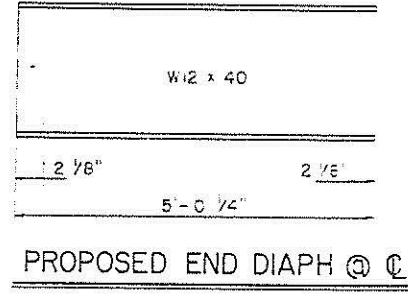
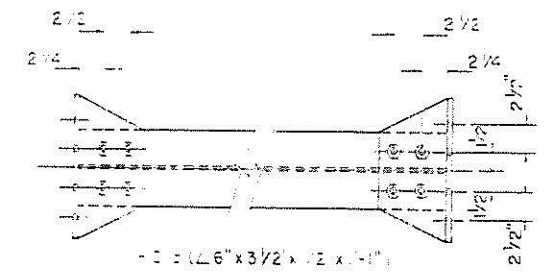
APRIL 9 1937  
K. Gebhardt  
R. Brown  
K.O.

**SUPERSTRUCTURE**  
TURTLE CREEK BRIDGE  
S.B. R.F. SEC. 76  
WINNEBAGO COUNTY  
STATION 6+00.00

Sheet No.	19
Project No.	101-0003
Date	



LAYOUT OF NEW DIAPHRAGMS



FURNISH AND ERECT STRUCT. STEEL

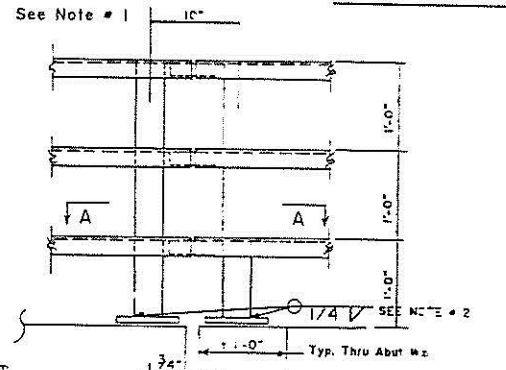
Quantity	4
Unit	Each

Bearing a Pier Symm.

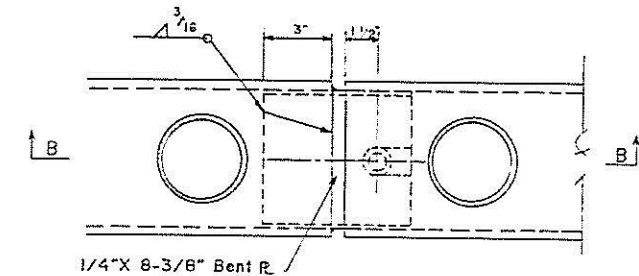
**NOTE # 1 :** Contractor shall retrofit existing steel rail panels spanning deck expansion joints with a rail panel connection. Work to be paid for at the contract unit price for Bridge Steel Handrail Repair.

**NOTE # 2 :** Contractor shall reweld existing steel rail post to base plate at south end of East railing. Work to be considered incidental to the contract unit price for Bridge Steel Handrail Repair.

**NOTE # 3 :** Contractor shall clean all loose, rust and damaged paint from existing steel surfaces as a result of construction. The method of cleaning and type of paint system shall be in accordance to the Special Provision for Cleaning and Painting Steel Structures for Rehabilitation Projects Effective May 1, 1988, or as directed by the engineer. All cost incurred shall be considered incidental to unit cost per pound for Furnishing and Erecting Structural Steel.

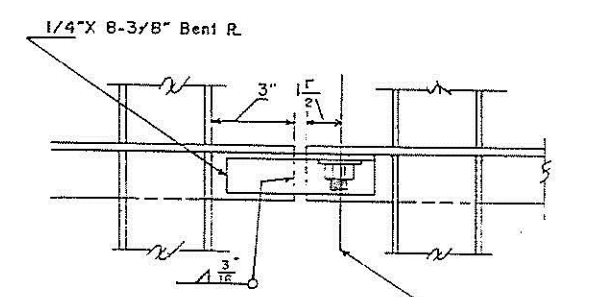
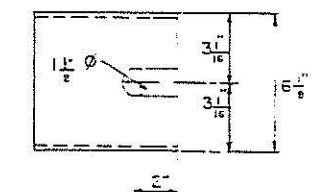


TYPICAL ELEVATION AT PANEL JOINTS



SECTION A-A

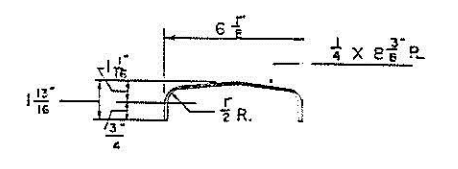
Use 1-1/2" @ punched hole at all panel joints. Use open slot at all expansion joints.



SECTION B - B

BRIDGE STEEL HAND RAIL REPAIR

Quantity	Each
Unit	4



END VIEW DETAIL 1/4 BENT PLATE

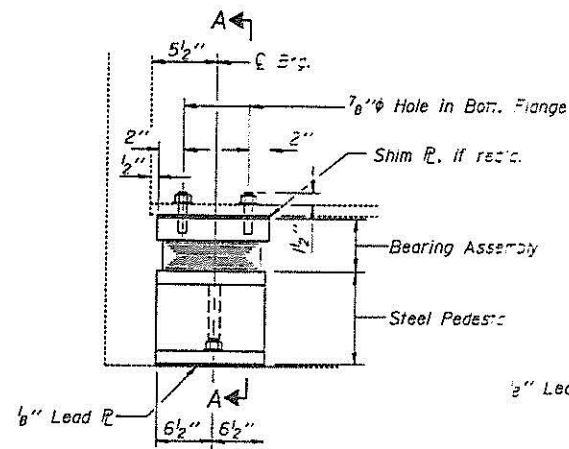
3/4" X 1-3/4" Granular or solid flux filled stud threaded full length - automatically end welded or 3/4" X 1-3/4" Fully threaded stud welded with 1/8" cfw. Provide washer and locknut.

CONNECTION DETAILS FOR BENT PLATE RAIL PANELS

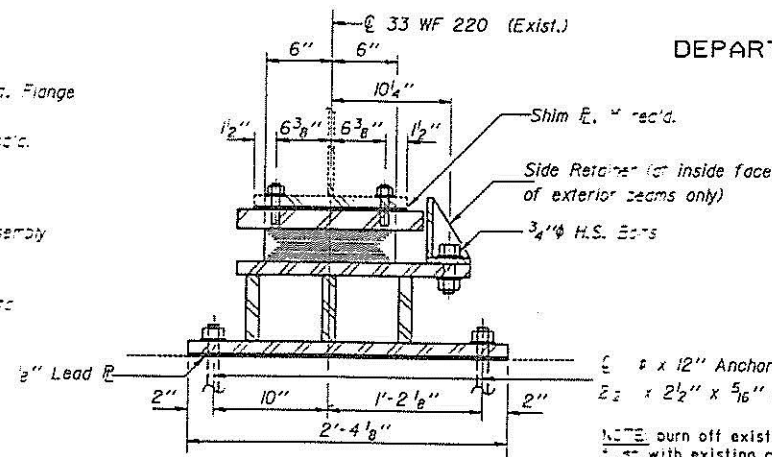
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	DRAFT	DATE	POST	SHEET NO.
734	*	WINNEBAGO	8	7	
DRAWN BY: KPS					DATE: 12-1-83

\* 76BR-M



ELEVATION AT ABUT.

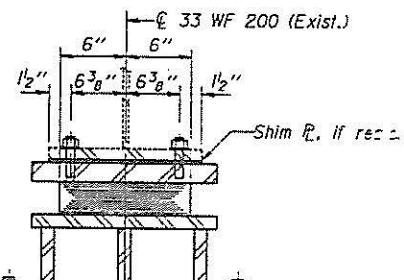


SECTION A-A  
(Showing Exterior Beam)

1/2" x 12" Anchor bolts with  
2 1/2" x 2 1/2" x 5/16" R washer under nut

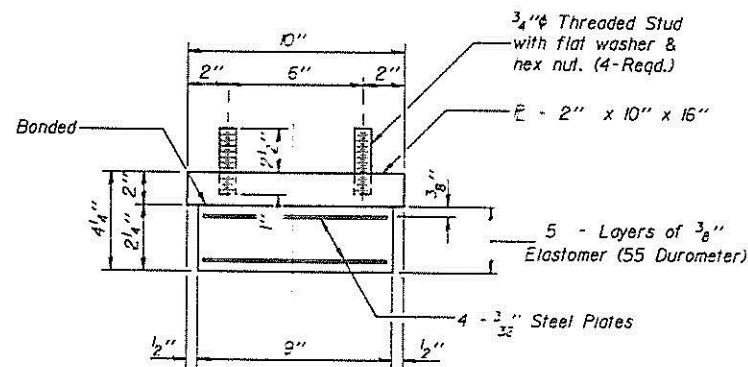
NOTE: Burn off existing anchor bolts  
flush with existing concrete surface.  
Grind smooth and seal with epoxy. For new  
anchor bolt details see Sheet #8.

TYPE I ELASTOMERIC EXP. BRG.



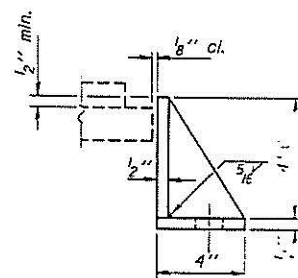
SECTION A-A  
(Showing Interior Beam)

1/2" x 12" Anchor bolts with  
2 1/2" x 2 1/2" x 5/16" R washer under nut



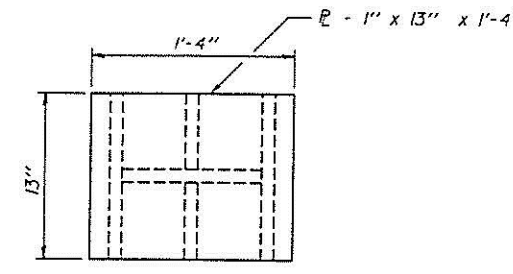
BEARING ASSEMBLY

Note: Shim plates shall not be placed  
under Bearing Assembly.

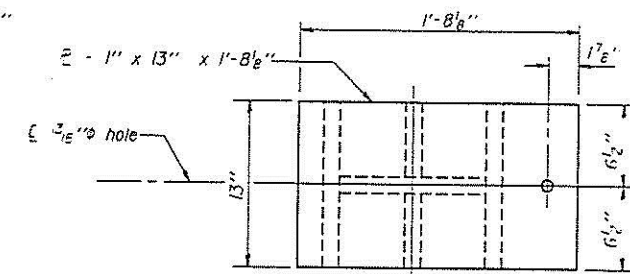


SIDE RETAINER

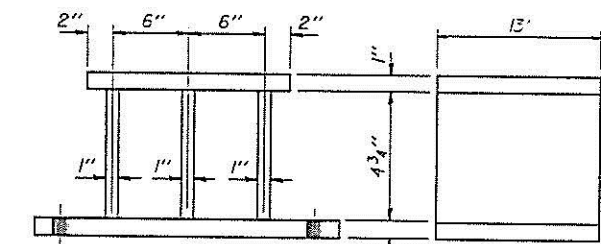
Equivalent rolled angle with stiffeners  
will be allowed in lieu of welded plates.



PLAN - TOP PLATE

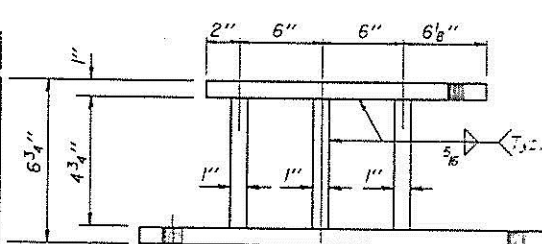


PLAN - TOP PLATE

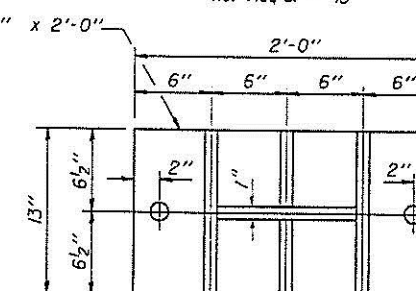


ELEVATION  
(Showing Interior Pedestal)  
No. Req'd. = 16

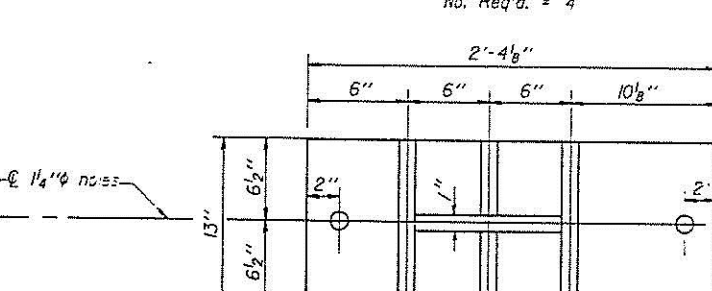
END VIEW (TYP.)



ELEVATION  
(Showing Exterior Pedestal)  
No. Req'd. = 4



PLAN - BOTTOM PLATE



PLAN - BOTTOM PLATE

STEEL PEDESTALS

BEAM REACTIONS

Live Load	39.0 kips
Dead Load	33.5 kips
Impact	10.0 kips

Note:  
New steel pedestals, side retainers,  
and anchor bolts are included in  
Furn. & Erect. Structural Steel.

BILL OF MATERIAL

Item	Unit	Quantity
Elastomeric Bearing Assembly Type I	Each	20
Furnishing and Erecting Structural Steel	Lbs.	4500
Jacking and Cribbing	Each	20

NORTH AND SOUTH ABUTMENTS

ELASTOMERIC BEARINGS

F.A. RT. 734 SEC. 76 BR

WINNEBAGO COUNTY

STA. 5 + 89.82

DESIGNED	KPS	EXAMINED	
CHECKED	R. B. CARBONE	PASSED	
DRAWN	R. B. CARBONE	APPROVED	
CHECKED	KPS		

I-2-E1 12-1-83

**STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
DIVISION OF HIGHWAYS  
PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
2	77-IHB	WINNEBAGO	48	1

P-92-018-00



LOCATION OF SECTION INDICATED THIS: —

**INDEX OF SHEETS**

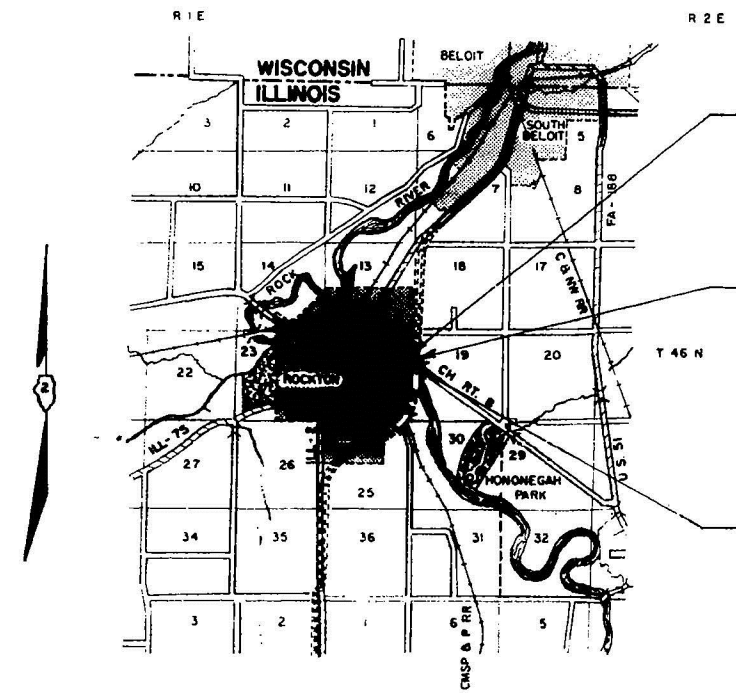
- COVER SHEET
- INDEX OF SHEETS
- TYPICAL SECTIONS
- GENERAL NOTES
- SUMMARY OF QUANTITIES
- DRAINAGE SCHEDULE
- TIE POINTS
- PLAN AND PROFILE HONONEGAH ROAD
- PLAN AND PROFILE FA 2
- SOIL RETENTION BLANKET
- INLETS SPECIAL, INLETS SPECIAL NO. 1
- PAVED DITCH
- DETAILS OF MEDIAN DRAIN
- PERMANENT BENCH MARKS
- GENERAL PLAN AND ELEVATION
- BORINGS
- SUPERSTRUCTURES
- BEAM LAYOUT
- HANDRAIL
- ADJUSTMENTS
- PIERS
- CROSS SECTIONS
- STD 1909-6 BRIDGE APPROACH SLABS
- STD 2371 REINFORCED CONCRETE HEADWALL
- STD 2117-1 BARE PLATES
- STD 2112 PLASTIC TRAFFIC CONTROL SIGN
- STD 2143-1 WIDTH TRANSITION
- STD 2159-2 SIGN FOR PRIMARY AND SECONDARY SYSTEM PROJECT
- STD 2169-1 CHAIN LINK FENCE
- STD 2169-2 WOVEN WIRE FENCE
- STD 2203-2 BARRICADES
- STD 2231 STEEL PLATE BEAM GUARDRAIL (TYPICAL APPLICATIONS)
- STD 2230 STEEL PLATE BEAM GUARDRAIL
- STD 2179-1 2 1/2" PCC PAVEMENT
- STD 2115-1 PAVEMENT FABRIC
- STD 2209-1 TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES
- STD 1976 REINFORCED CONCRETE HEADWALL
- 48A STD 7765 4 LONGITUDINAL METAL JOINT

**SCALES**

PLAN	1 INCH	100 FT.
PROFILE, HOR.	1 INCH	100 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	5 FT.

**(FA ROUTE 2) SBI ROUTE 2  
SEC. 77-IHB  
PROJ. F-142 (48)  
WINNEBAGO COUNTY**

C-92-030-66



PROJ. F-142 (48)  
SEC. 77-IHB  
BEGINS STA. 31+70

SEC. 77-IHB INCLUDES a 4 span Continuous Steel WF Beam grade separation structure (carrying C.H.S. Hononegah Road, over SBI Route 2) on R.C. open piers and open abutments, spans 1 at 49'-0", 2 at 78'-4 1/2" and 1 at 54'-10" at station 188+57.05 on SBI Route 2

PROJ. F-142 (48)  
SEC. 77-IHB  
ENDS STA. 37+84.43

LAYOUT  
SCALE 1"=1 MILE

NET LENGTH OF PROJECT = 0.00 FT. = 0.00 MILE  
NET LENGTH OF SECTION = 764.43 FT. = .145 MILE

DESIGN DESIGNATION  
**SBI Route 2**  
910 (87)-B-2-252 (CR PCC 20)  
**CH 8**  
775 (87)-C-.57 (PCC 20)

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
DIVISION OF HIGHWAYS

SUBMITTED DEC 20 1966  
W. W. Dole

EXAMINED Jan 19 1967  
W. W. Dole

FORWARDED Jan 24 1967  
W. W. Dole

APPROVED Jan 12 1967  
W. W. Dole

APPROVED Jan 17 1967  
Francis J. Quinn

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED \_\_\_\_\_

DIVISION ENGINEER DATE

B.M. Railroad spike in power pole  
11' RT Sta. 187+77 Elev 757.21

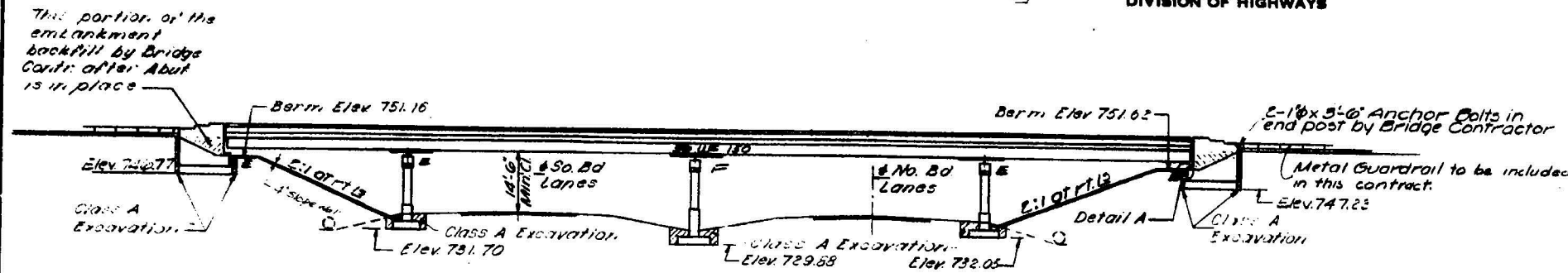
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
A.S. 2	77-1HB	WINNEBAGO	48	12
SHEETS 13 SHEETS				

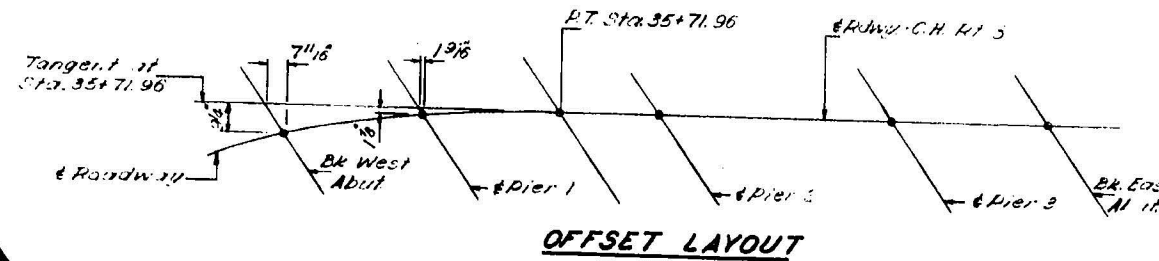
PROJ. F-142 (48)  
ILLINOIS PROJ. NO. F-142(48)

**GENERAL NOTES**

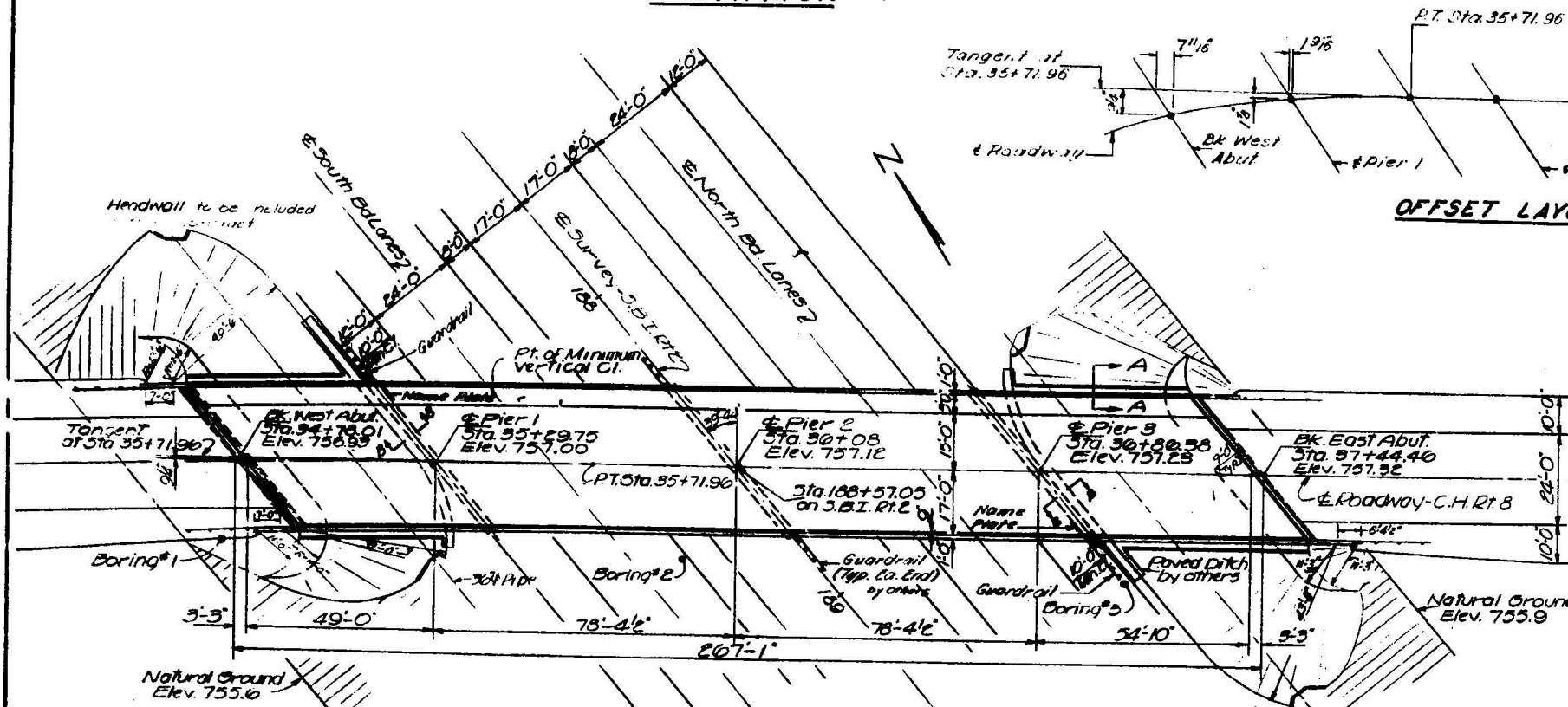
Coarse aggregate to be used in parapet handrails and end post must be free of chert, flint, limonite, lignite and soft sandstone.  
The concrete floor slab shall be finished in accordance with Art. 5119 of the Std. Specifications.  
Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.  
All reinforcement bars shall be lapped 20 dia. unless otherwise shown.  
All structural steel shall conform to A.S.T.M. Designation A-36.  
Rivets 5/8" Open Hole 1/8" dia. unless otherwise noted.  
Anchor bolts shall be set before fastening diaphragms over supports.  
Expansion joints of the expansion joints shall be made after erection, shall remain two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.  
Expansion devices are included in the quantity of structural steel. Est. Wt. 1.25 lbs.  
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Art. 55.1 to 56.5 inclusive of the Std. Specifications.  
Permanent forms will not be permitted in forming the concrete floor.  
FIELD WELDING OF CONNECTION ACCORDING TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/2 OF THE DEPTH EACH WAY FROM FIRM SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.



**ELEVATION**



**OFFSET LAYOUT**



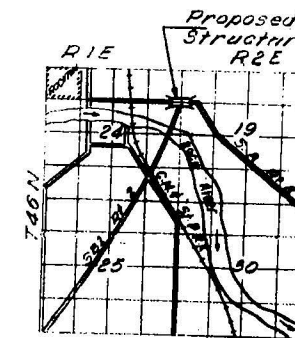
STATION 188+57.05  
BUILT 1925 BY  
STATE OF ILLINOIS  
S.B.I. RT. 2 SEC. 77-1HB  
F.A. PROJ. F-142 (48)  
LOADING H320

**NAME PLATE**  
(See Std. 2113-1)

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Class A Excav. for Structures	Cu Yds.		850	850
Class X Concrete	Cu Yds.	332.9	300.4	633.3
Structural Steel	Lbs.	298,230		298,230
Alum. Handrail (All Type L)	Lin. Ft.	525		525
Metal Handrail (All Type M)	Lin. Ft.	525		525
Reinforcement Bars	Lbs.	85730	24660	121390
Name Plates	Ea.		2	2
Slope Wall (4')	Sq. Yds.			570
Protective Coat	Sq. Yds.			1370
Bridge Seat Sealant	L.S.			1

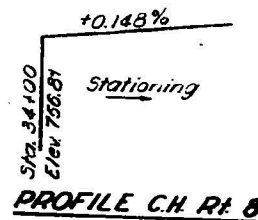
\* Includes applications on inside vertical face, top & exposed end of the abutment wings.  
\*\* At abutments only.  
\*\*\* Includes excavation at abutments, piers, slope walls and wingwalls.



**LOCATION PLAN**

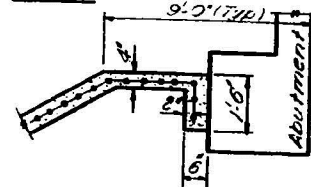
**CURVE DATA C.H. RT. 8**

PI Sta. 35+53.31  
Δ=4°-30'  
D=1'-30"  
T=241.82'  
R=5729.65'  
L=483.22'  
S=0.028%  
S.E. to Crown Transition:  
Sta. 35+05.29 to Sta. 37+05.29

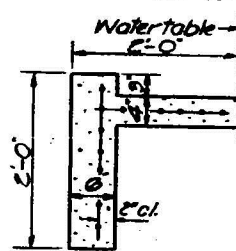


**PROFILE C.H. RT. 8**

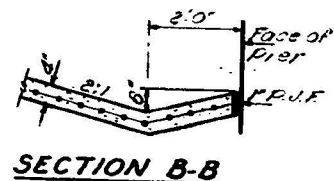
**PLAN**



**DETAIL A**

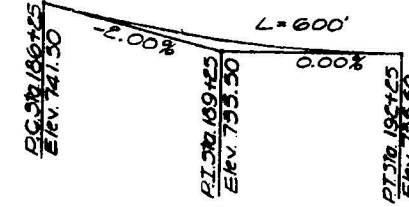


**SECTION A-A**



**SECTION B-B**

**PROFILE S.B.I. RT. 2**



**DESIGN STRESSES**

$f_c = 1400$  psi. (Super. & Sub.)  
 $f_s = 20,000$  psi. (Reinf.)  
 $f_s = 20,000$  psi. (Struct.)  
 $f_c = 75$  psi. (Footings)  
 $n = 10$

Allowable  $\sigma$  stress  
Footing Pressure = 3 KSF (Abuts), 4.8 KSF (P-1), 8.9 KSF (P-2)  
LOADING H320-44

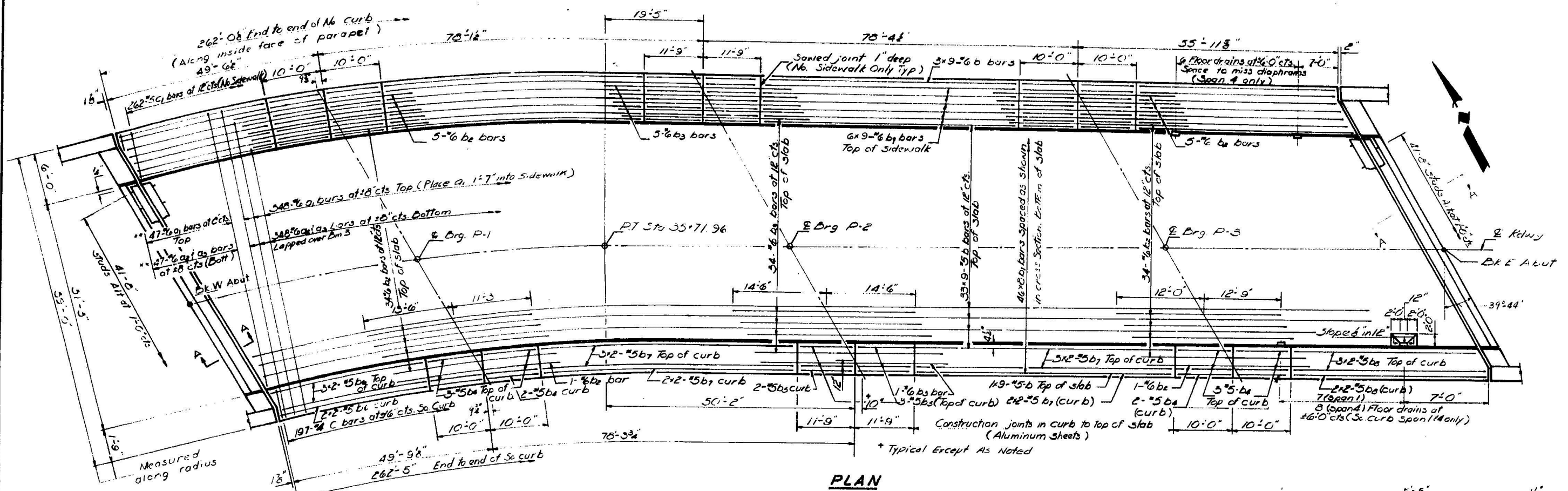
PROJ. F-142 (48)  
**GENERAL PLAN & ELEVATION**  
**C.H. RT. 8 OVER S.B.I. RT. 2**  
**S.B.I. RT. 2 SEC. 77-1HB**  
**WINNEBAGO COUNTY**  
**STATION 188+57.05**

DESIGNED	Taylor S. Linn
CHECKED	George A. Bozi
DRAWN	J. Messler
CHECKED	George A. Bozi

Dec 21 1966  
EXAMINED  
PASSED  
APPROVED

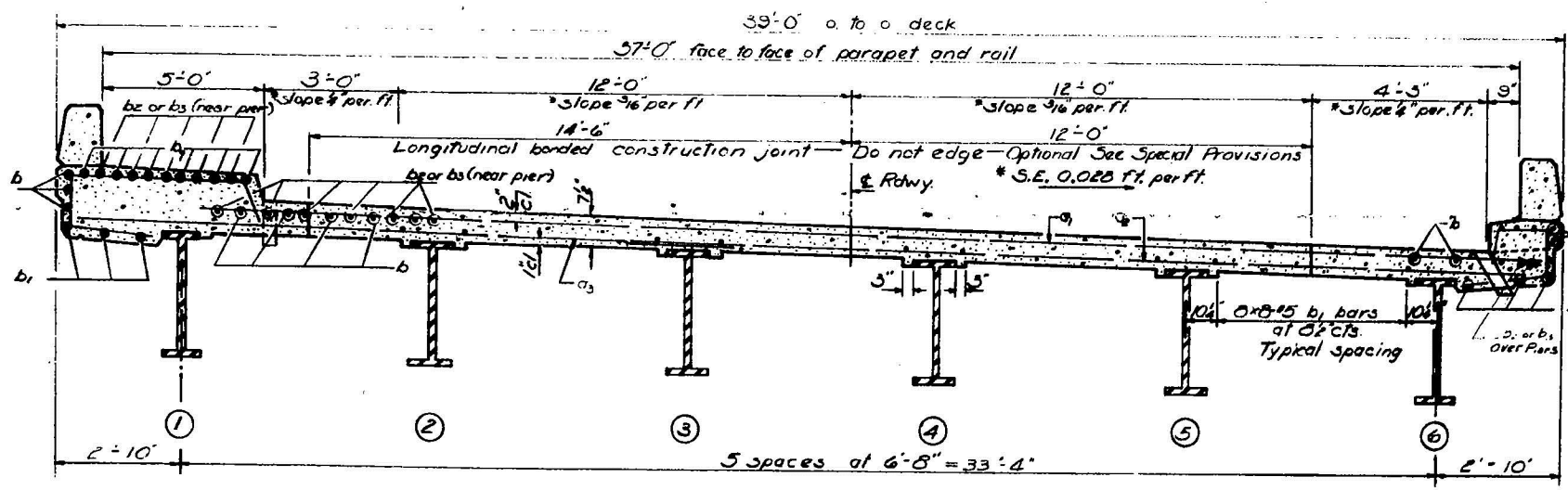
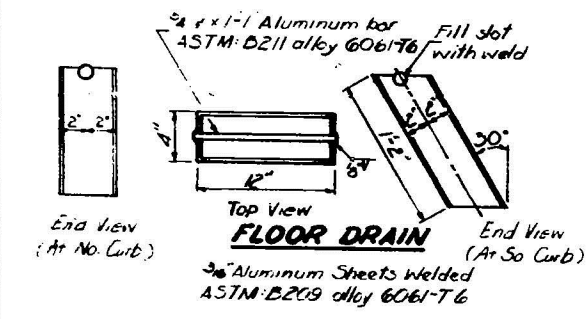
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

DATE	BY	PROJECT	TOTAL SHEETS	SHEET NO.	SHEET NO.
12-2-27	77-1HB	WINNEBAGO	48	15	13 SHEETS
P.O. ROAD DIST. NO. 1					



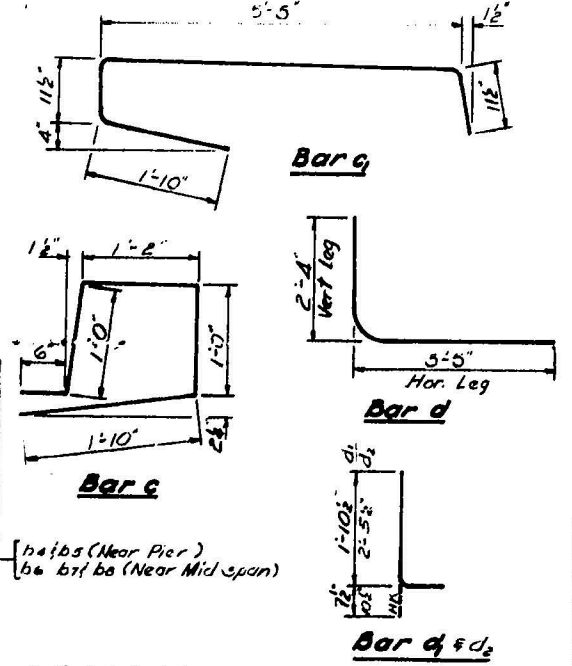
PLAN

\*\* Order  $a_1, a_2, a_3$  bars full length cut to fit skew and use remainder of bars in opposite end



CROSS SECTION  
(Looking East)

\* Full SE From Bk. of W. Abut to Sta 35+05.29  
SE. Variable From Sta. 35+05.29 to Sta. 37+05.29  
Full Crown From Sta 37+05.29 to Bk. of E. Abut.



Note:  
See sheet No 516 for Bill of Material  
Other details.  
Bars indicated thus 20x3#5 etc  
Indicate 20 lbs of bars with 5  
lengths per line.  
Min bar laps = 20 dia.

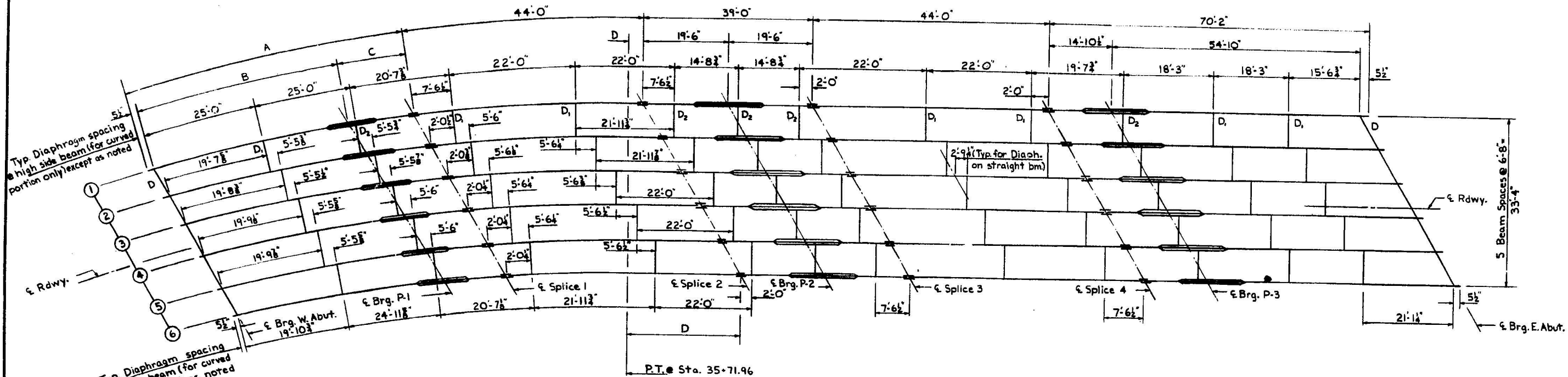
DESIGNED *July 26 1916*  
CHECKED *George H. Bozi*  
DRAWN *DRIBAWIAMS Sr*  
CHECKED *George H. Bozi*

EXAMINED *Paul S. T. [Signature]*  
PASSED *H. B. [Signature]*  
APPROVED *V. E. [Signature]*

**SUPERSTRUCTURE**  
**S.B.L. RT 2 SEC. 77-1HB**  
**WINNEBAGO COUNTY**  
**STATION 188+57.05**

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	QUANTITY	SCALE	SHEET NO.
A.B. 2	77-116	WINNEBAGO	48	17
SHEET NO. 6		13 SHEETS		



PLAN

Note: Beam spacing is 6'-8" radially.  
All beams shall be fabricated to their respective radius in curve portion.  
All horizontal dimensions are given along  $\epsilon$  beam.  
All beams are 36 WF 150.  
If beams are to be bent to specified curvature by application of heat, cooling by quenching will not be permitted. Cooling must be accomplished by removing heat inducer and permitting slow cooling in still air at room temperature.

BEAM LENGTHS

	A	B	C	D	Total	Radius
Beam 1	63'-6 $\frac{3}{8}$ "	48'-5 $\frac{1}{4}$ "	14'-7 $\frac{5}{8}$ "	1'-5 $\frac{1}{4}$ "	260'-8 $\frac{3}{8}$ "	5747.8167
Beam 2	63'-7 $\frac{1}{8}$ "	48'-5 $\frac{3}{8}$ "	14'-8 $\frac{1}{4}$ "	6'-11 $\frac{3}{4}$ "	260'-9 $\frac{3}{8}$ "	5741.1500
Beam 3	63'-8 $\frac{1}{4}$ "	48'-6 $\frac{1}{4}$ "	14'-8 $\frac{3}{8}$ "	12'-6 $\frac{1}{4}$ "	260'-10 $\frac{1}{4}$ "	5734.4833
Beam 4	63'-9 $\frac{1}{8}$ "	48'-6 $\frac{3}{4}$ "	14'-9 $\frac{1}{8}$ "	18'-0 $\frac{3}{4}$ "	260'-11 $\frac{1}{8}$ "	5727.8167
Beam 5	63'-9 $\frac{3}{8}$ "	48'-7"	14'-9 $\frac{3}{8}$ "	23'-7 $\frac{1}{4}$ "	260'-11 $\frac{3}{8}$ "	5721.1500
Beam 6	63'-10 $\frac{1}{4}$ "	48'-7 $\frac{1}{2}$ "	14'-9 $\frac{3}{4}$ "	29'-1 $\frac{3}{4}$ "	261'-0 $\frac{1}{4}$ "	5714.4833

\* In ft unit

ELEVATION TOP OF WF (FOR FABRICATION ONLY)

Loc.	Bm. 1	Bm. 2	Bm. 3	Bm. 4	Bm. 5	Bm. 6
$\epsilon$ Brg. W. Abut.	756.80	756.62	756.44	756.26	756.08	755.90
$\epsilon$ Pier 1	756.75	756.59	756.44	756.30	756.13	755.97
$\epsilon$ Splice 1	756.74	756.58	756.44	756.31	756.15	755.99
$\epsilon$ Splice 2	756.62	756.54	756.46	756.38	756.24	756.10
$\epsilon$ Pier 2	756.57	756.52	756.47	756.41	756.27	756.14
$\epsilon$ Splice 3	756.52	756.50	756.48	756.44	756.30	756.18
$\epsilon$ Splice 4	756.40	756.45	756.50	756.51	756.40	756.29
$\epsilon$ Pier 3	756.39	756.46	756.52	756.54	756.44	756.33
$\epsilon$ Brg. E. Abut.	756.36	756.50	756.61	756.67	756.57	756.46

STRESS TABLE

	Moments						Reactions					
	.4 Sp. 1	Pier 1	.5 Sp. 2	Pier 2	.5 Sp. 3	Pier 3	.6 Sp. 4	$\epsilon$ Brg. W. Abut.	Pier 1	Pier 2	Pier 3	$\epsilon$ Brg. E. Abut.
D. L.	138.12	530.86	305.72	726.50	286.45	569.11	211.99	19.1	86.4	100.5	90.0	23.2
L. L.	302.39	367.18	411.96	448.98	415.69	383.49	360.69	34.0	48.8	53.2	49.9	35.6
Impact	85.27	94.68	99.86	115.61	100.79	98.88	98.22	9.7	12.6	12.6	12.8	9.8
Total	525.78	992.72	817.54	1291.10	802.93	1051.48	670.90	62.8	147.8	166.3	152.7	68.6

Moments are in Ft-Kips  
Reactions are in Kips

DESIGNED *St. G. S. K.*  
CHECKED *George M. Bezi*  
DRAWN *Gene McCormick*  
CHECKED *George M. Bezi*

EXAMINED *Paul E. J. ...*  
PASSED *H. B. ...*  
APPROVED *V. E. ...*

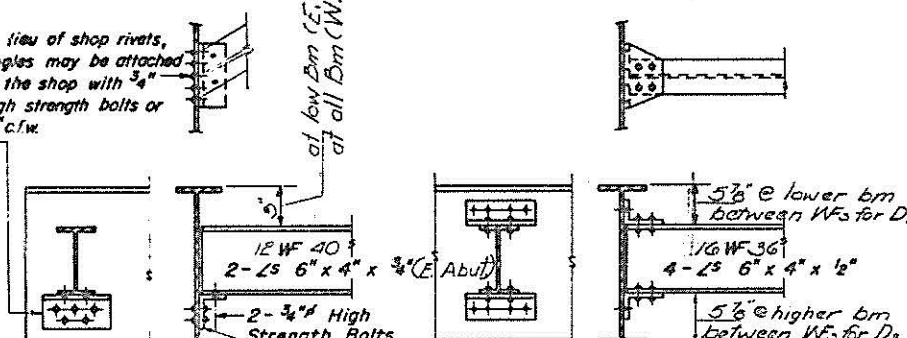
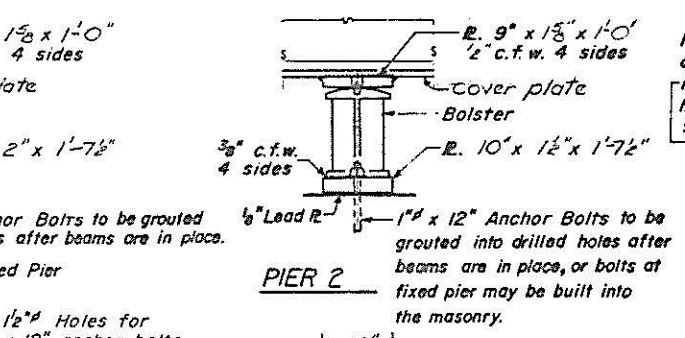
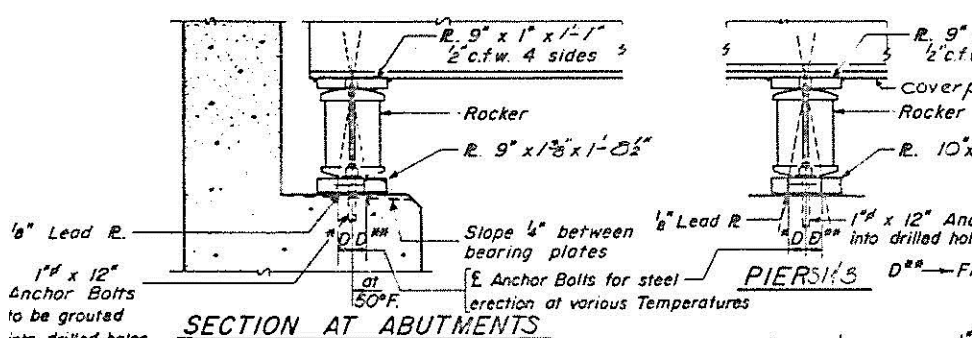
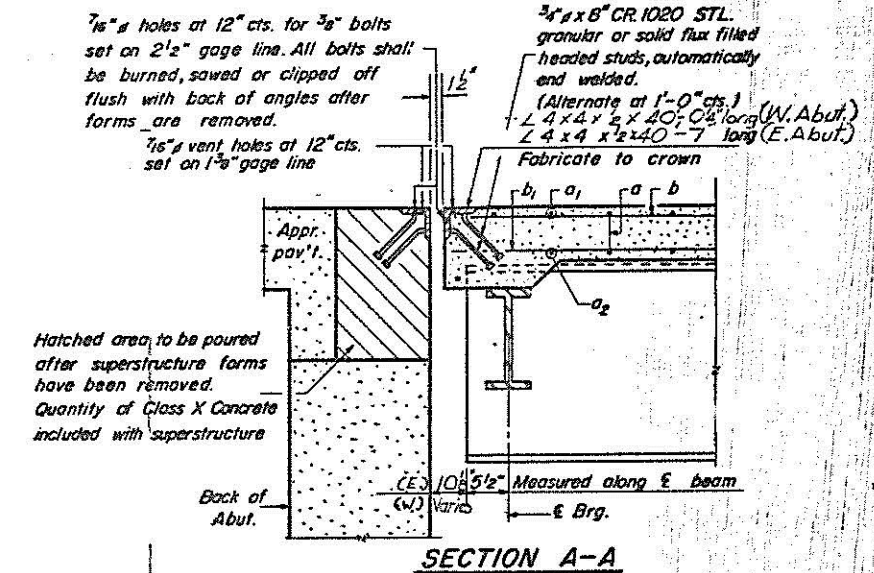
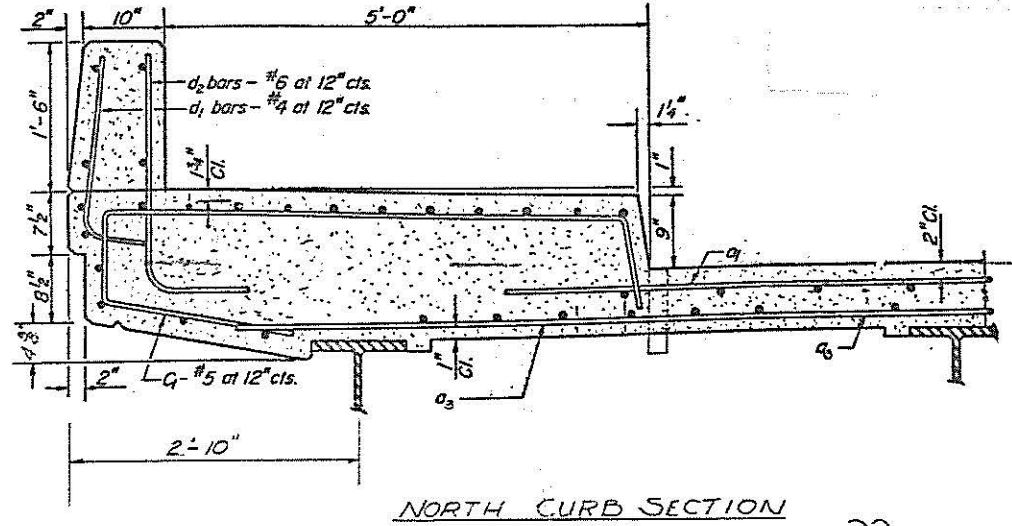
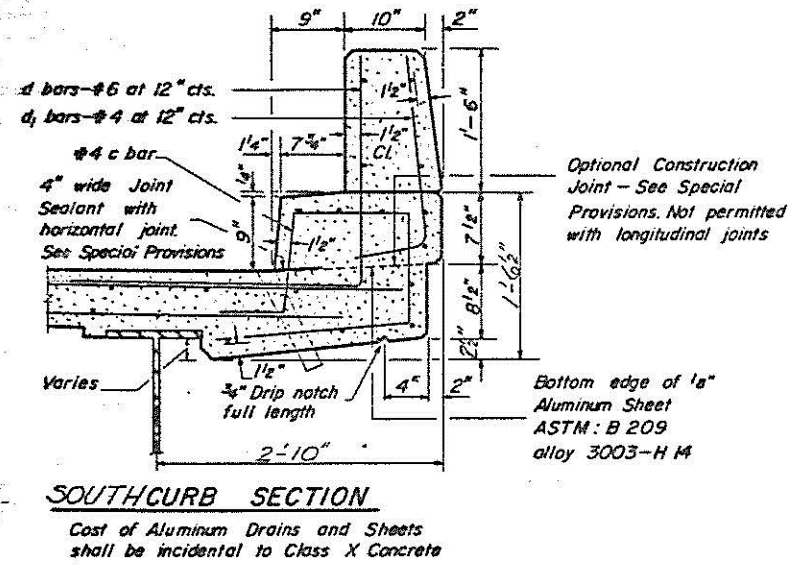
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BEAM LAYOUT  
S.B.I. RT. 2 SEC. 77-116  
WINNEBAGO COUNTY  
STATION 186+57.05



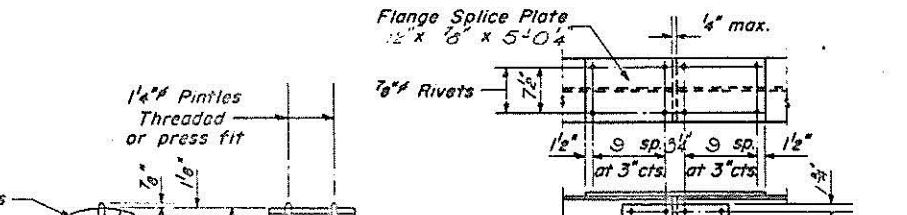
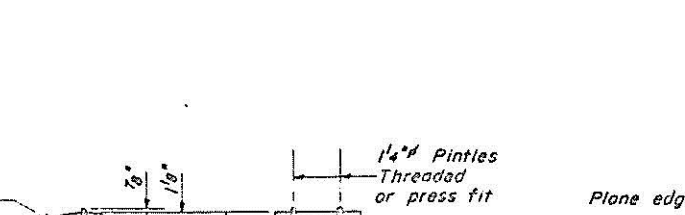
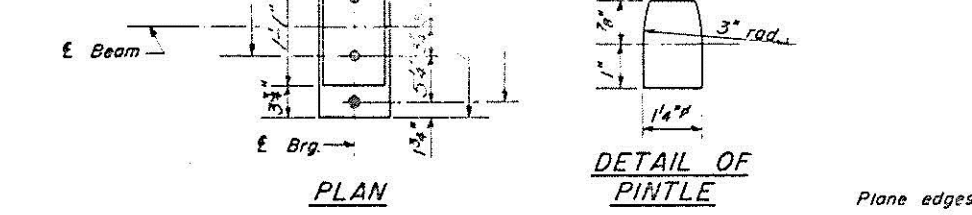
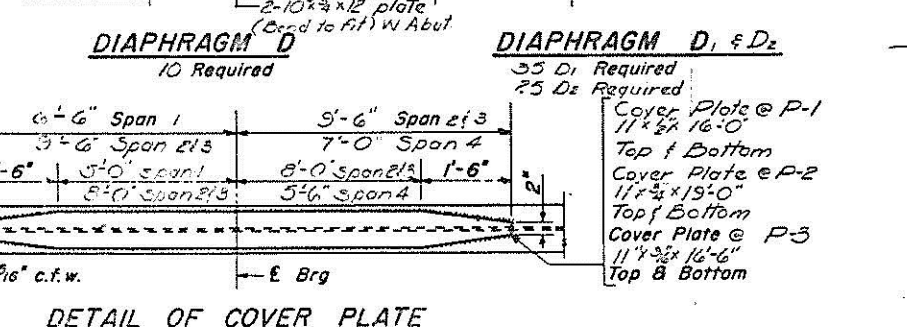
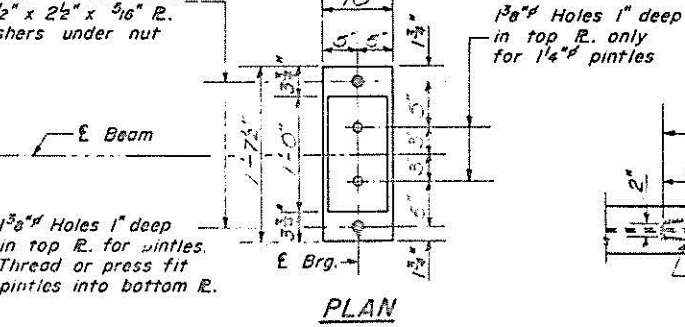
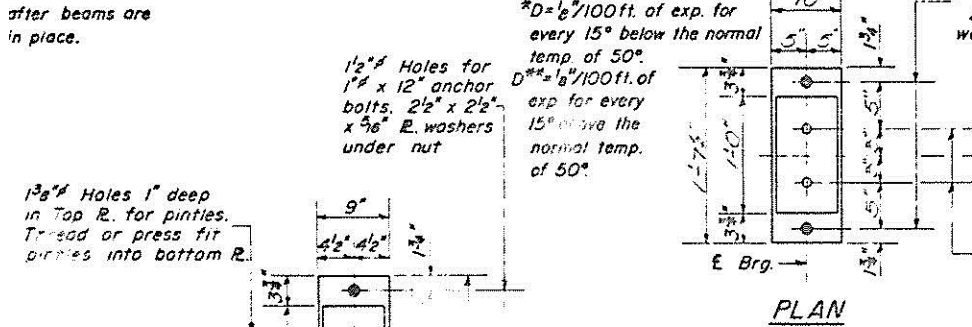
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	CITY	DATE	SHEET NO.
2	77-1HB	WINNEBAGO	4.8	16
SHEET NO. 5				
13 SHEETS				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub>	395	#6	54'-3"	—
a <sub>2</sub>	395	#6	25'-5"	—
a <sub>3</sub>	395	#6	16'-6"	—
b	533	#5	30'-5"	—
b <sub>1</sub>	568	#3	25'-9"	—
b <sub>2</sub>	80	#6	2'-9"	—
b <sub>3</sub>	40	#6	23'-0"	—
b <sub>4</sub>	20	#5	9'-9"	—
b <sub>5</sub>	10	#5	11'-6"	—
b <sub>6</sub>	10	#5	20'-6"	—
b <sub>7</sub>	20	#5	26'-5"	—
b <sub>8</sub>	10	#5	23'-6"	—
c	157	#4	5'-6"	D
d	263	#6	5'-9"	—
d <sub>1</sub>	525	#4	2'-6"	—
d <sub>2</sub>	262	#6	3'-4"	—
d <sub>3</sub>	54	#6	30'-3"	—
Reinforcement Bars			Lbs.	83590
Structural Steel			Lbs.	298230
Class X Concrete			Cu. Yd.	306.2

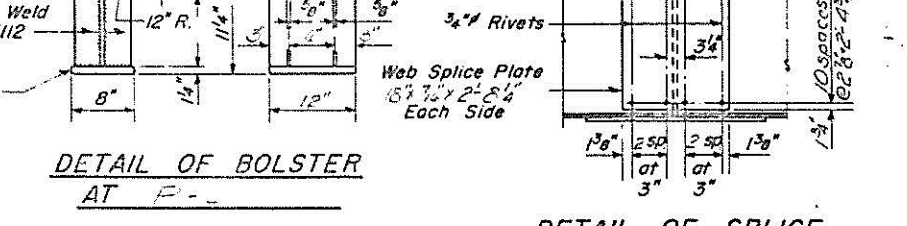
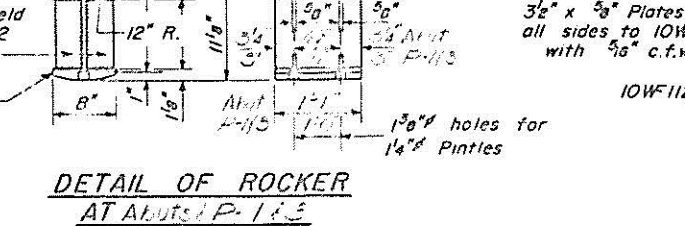


\* Weight of bearing assemblies with lead plates, and anchor bolts are included as structural steel. Est. Wt. = 8920 Lbs.

The lengths and quantities of longitudinal reinforcement and Class X Concrete in parapets are not included in above quantities. See sheet 7.

Note: See Sheet No 6 for Beam layout.

DESIGNED: *George A. Brizi*  
CHECKED: *George A. Brizi*  
DRAWN: *W.A. Sausaman Jr.*  
EXAMINED: *Carl S. Sausaman*  
PASSED: *W.A. Sausaman*  
APPROVED: *W.E. Sausaman*



ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 734	177-DRS	WINNEBAGO	126	54
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

# TYPE II ELASTOMERIC BEARING AND STEEL PEDESTAL

