

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS
734	(77-1HVB)BP-1	WINNEBAGO	13
			CONTRACT NO. 64M51

*13 + 8(A-H) = 21 TOTAL PAGES

D-92-062-17

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

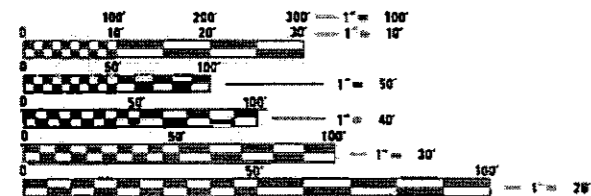
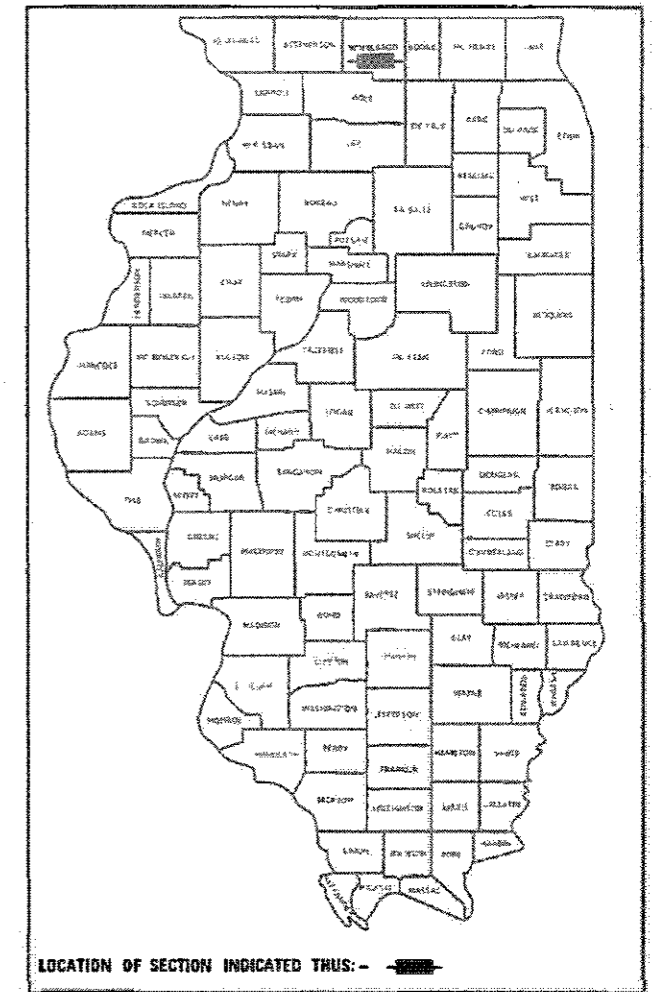
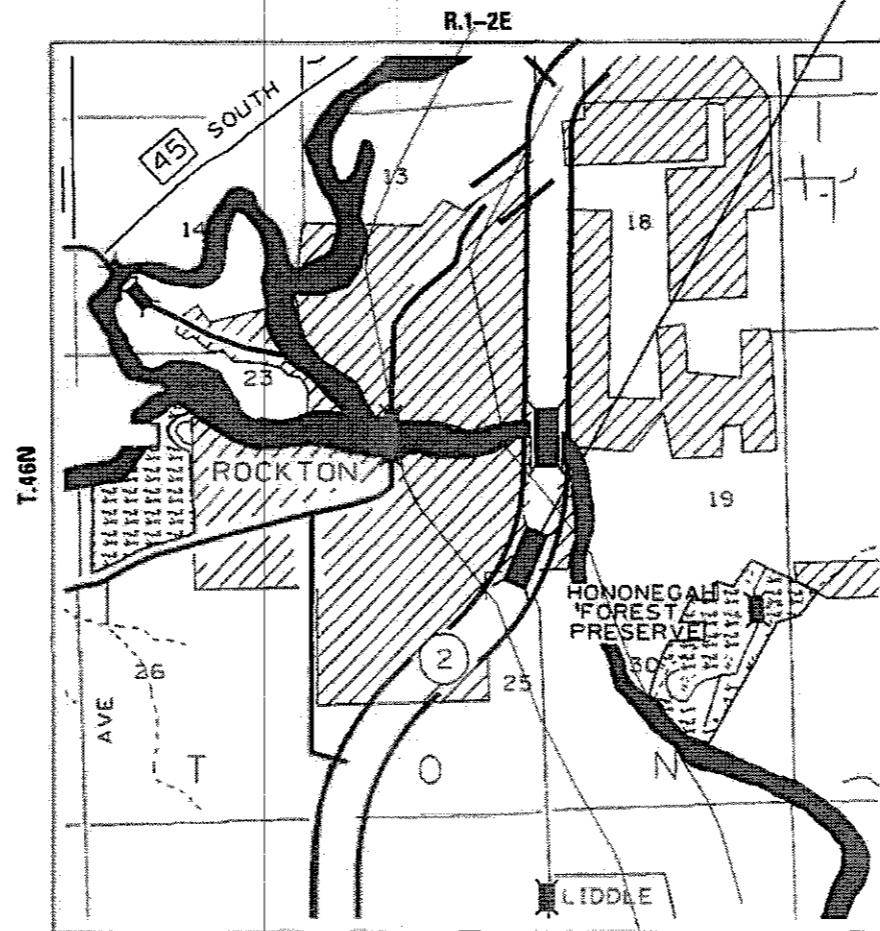
PROPOSED HIGHWAY PLANS

FAP ROUTE 734 (IL 2)
SECTION (77-1HVB)BP-1
PROJECT: NHPP-40SF(142)
TYPE of IMPROVEMENT: BRIDGE PAINTING
WINNEBAGO COUNTY

C-92-075-17

SN 101-0127 &
SN 101-0128

ROCKTON TOWNSHIP, SECTIONS 24 & 25



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. 64M51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1-25-2018
R. S. Marshall
REGIONAL ENGINEER

Mar 23 2018
A. E. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 23 2018
Paul L. Chisholm
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5 STAGING TYPICALS
- 6 - 7 TRAFFIC CONTROL PLAN - STAGE I - FOR SN's 101-0127 & 101-0128
- 8 - 9 TRAFFIC CONTROL PLAN - STAGE II - FOR SN's 101-0127 & 101-0128
- 10 - 12 DISTRICT 2 STANDARD, TYPICAL PAVEMENT MARKINGS
- 13 DISTRICT 2 STANDARD, PAINTING DETAILS
- 13A-13H EXISTING PLANS SN 101-0127 & 101-0128

STATE STANDARDS

- 701001 - 02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
- 701006 - 05 OFF-RD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701101 - 05 OFF ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201 - 04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301 - 04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311 - 03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321 - 17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901 - 07 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)

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 QP1 & QP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

MODEL: Default
FILE NAME: D:\MAIL\0848HID\TEG_illinois.gov\HW\DOT\Documents\DOT_Office\DOT\Sheet_2\Projects\Operations\Bridges_Section\Winnebago\101-0127 & 101-0128\44M51\CADD\DOT-shk-cover.dgn

USER NAME = aossdd	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-29-2018 08:30:09 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	
SCALE: _____	SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HV8)BP-1	WINNEBAGO	13	2
CONTRACT NO. 64M51			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

80% NHPP
20% STATE

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
			0047
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1410
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	475
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	475
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1161.5
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	387
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	474
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NO. 1	L SUM	1
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NO. 2	L SUM	1
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
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

MODEL: Default
FILE NAME: P:\V\04\FBI\UNITEG\Illinois.gov\F\DOT\Documents\DOT - Office\District 2\Projects\10\paratonalridge - Section\Winnebago\10-0127 & 10-0128\64M51\CADD\02-qty-cover.dgn

21

USER NAME = dssdd	DESIGNED - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	DRAWN - _____	REVISED - _____
PLOT DATE = Jan-29-2018 08:31:28 AM	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	3
CONTRACT NO. 64M51				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

70300220	TEMPORARY PAVEMENT MARKING - LINE 4"		X0327980
	<u>LOCATION</u>	<u>COMMENTS</u>	<u>FOOT</u>
	STAGE I		
	183.5'	TAPER	183.5
	450'	1' LT OFFSET	450
	13'	1:12 TAPER	13
	100'	TAPER	100
	STAGE II		
	100'	TAPER	100
	13'	1:12 TAPER	13
	450'	1' RT OFFSET	450
	100'	TAPER	100
		TOTAL	1410

		X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	<u>SQ FT</u>
	<u>LOCATION</u>			
	STAGE I			
	100'	WEST TAPER/EDGE LINE		33
	50'	EAST TAPER/EDGE LINE		17
	243.5'	WEST CENTERLINE		81
	223'	EAST CENTERLINE		74
	STAGE II			
	50'	WEST TAPER/EDGE LINE		17
	50'	EAST TAPER/EDGE LINE		17
	247'	WEST CENTERLINE		82
	198'	EAST CENTERLINE		66
				387

70300280	TEMPORARY PAVEMENT MARKING - LINE 24"		78001110
	<u>LOCATION</u>	<u>COMMENTS</u>	<u>FOOT</u>
	STAGE I		
	12'	STOP BAR X2	24

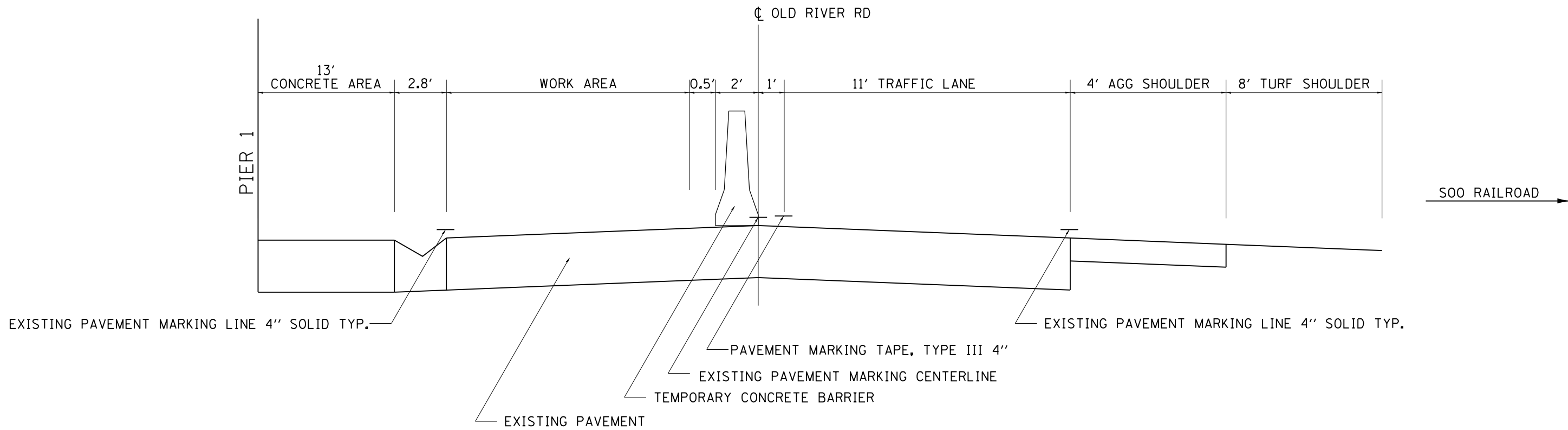
		78001110	PAINT PAVEMENT MARKING - LINE 4"	
	<u>LOCATION</u>	<u>COMMENTS</u>		<u>FOOT</u>
	STAGE I			
	100'	WEST TAPER/EDGE LINE		100
	50'	EAST TAPER/EDGE LINE		50
	243.5'	WEST CENTERLINE		243.5
	223'	EAST CENTERLINE		223
	STAGE II			
	50'	WEST TAPER/EDGE LINE		50
	50'	EAST TAPER/EDGE LINE		50
	247'	WEST CENTERLINE		247
	198'	EAST CENTERLINE		198
				1161.5

X7030005	TEMPORARY PAVEMENT MARKING REMOVAL		
	<u>LOCATION</u>	<u>COMMENTS</u>	<u>SQ FT</u>
	STAGE I		
	746.5'	TEMPORARY PAVEMENT MARKING - 4"	249
	STAGE II		
	663'	TEMPORARY PAVEMENT MARKING - 4"	221
	12'	TEMPORARY PAVEMENT MARKING - 24"	4
		TOTAL	474

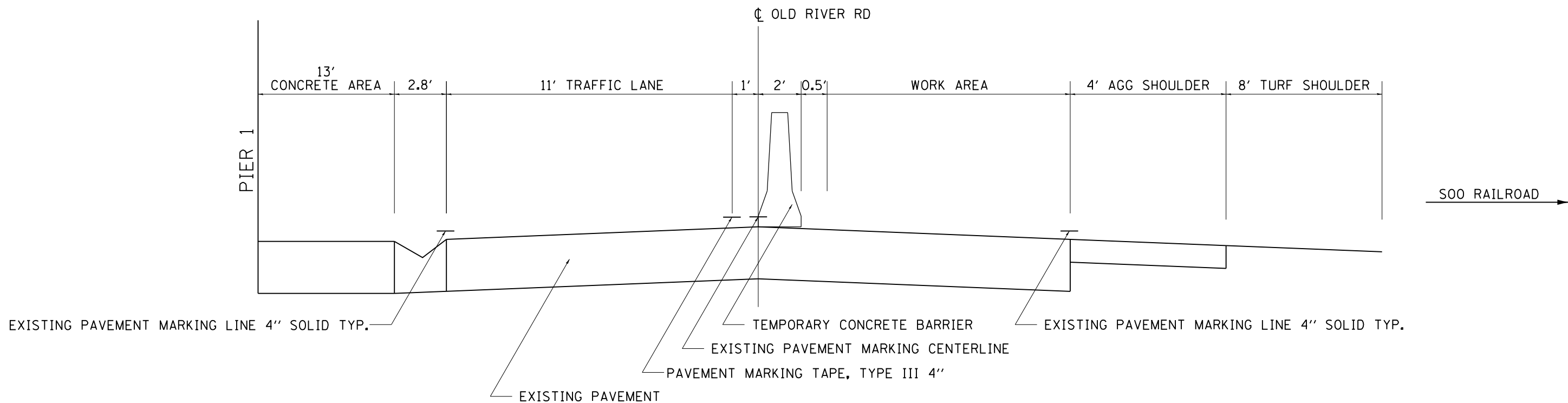
MODEL: Default
 FILE: \\mspc-pw\ill08a\EBID\NTEC\Illinois.gov\PW\DOT\Documents\101-0127 & 101-0128\64M51\CADD\02-sh-covers.dgn
 Section\W\mebaron\101-0127 & 101-0128\64M51\CADD\02-sh-covers.dgn

STAGING TYPICALS

STAGE I - OLD RIVER RD



STAGE II - OLD RIVER RD



MODEL: Default
 FILE: \\nas01\B&E\BID\NTEC\Illinois\proj\PIV\DOT\Documents\st\DOT_Offices\Director\2\Projects\Operations\Bldg - Section\Winnebago\101-0127 & 101-0128\64M51\CADD\DD2-shr-cover.dgn

USER NAME = drossdd	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-29-2018 08:31:49 AM	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

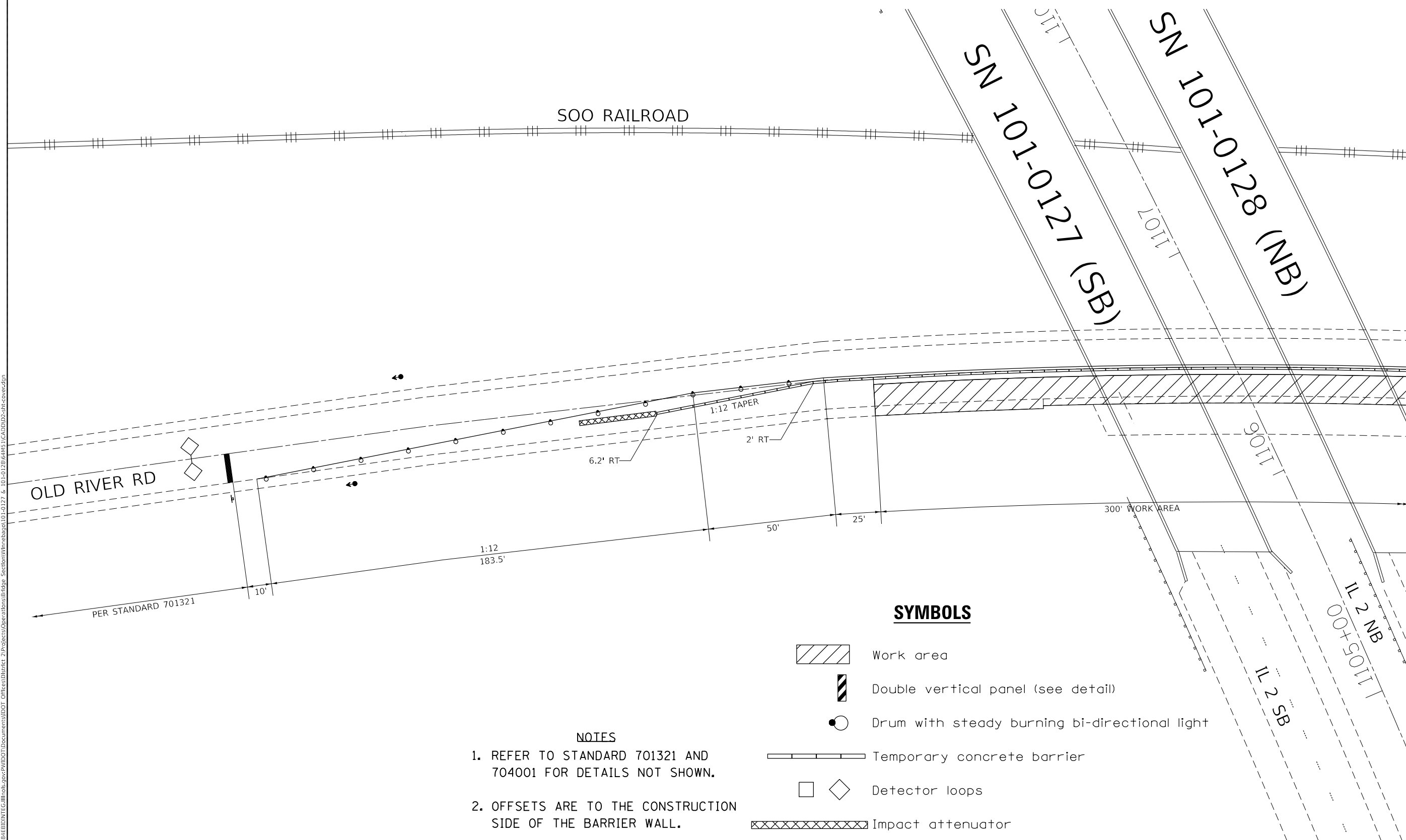
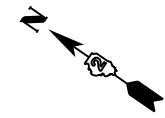
STAGING TYPICALS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	5
CONTRACT NO. 64M51				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN

STAGE I – FOR SN's 101-0127 & 101-0128



SYMBOLS

- Work area
- Double vertical panel (see detail)
- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Detector loops
- Impact attenuator

NOTES

1. REFER TO STANDARD 701321 AND 704001 FOR DETAILS NOT SHOWN.
2. OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE BARRIER WALL.

MODEL: Default
 FILE: \\nas01\pub\B&E\BID\NTEC\Illinois\poc\RW\DOT\Documents\DOT_Offices\Director\Projects\Operations\Bldg_Section\Winnebago\101-0127 & 101-0128\64M51\CADD\DD2-htc-cover.dgn

USER NAME = dossed	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 40,0000 ' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = Jan-29-2018 08:34:05 AM	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

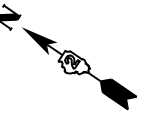
TRAFFIC CONTROL PLAN
STAGE I – FOR SN's 101-0127 & 101-0128

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

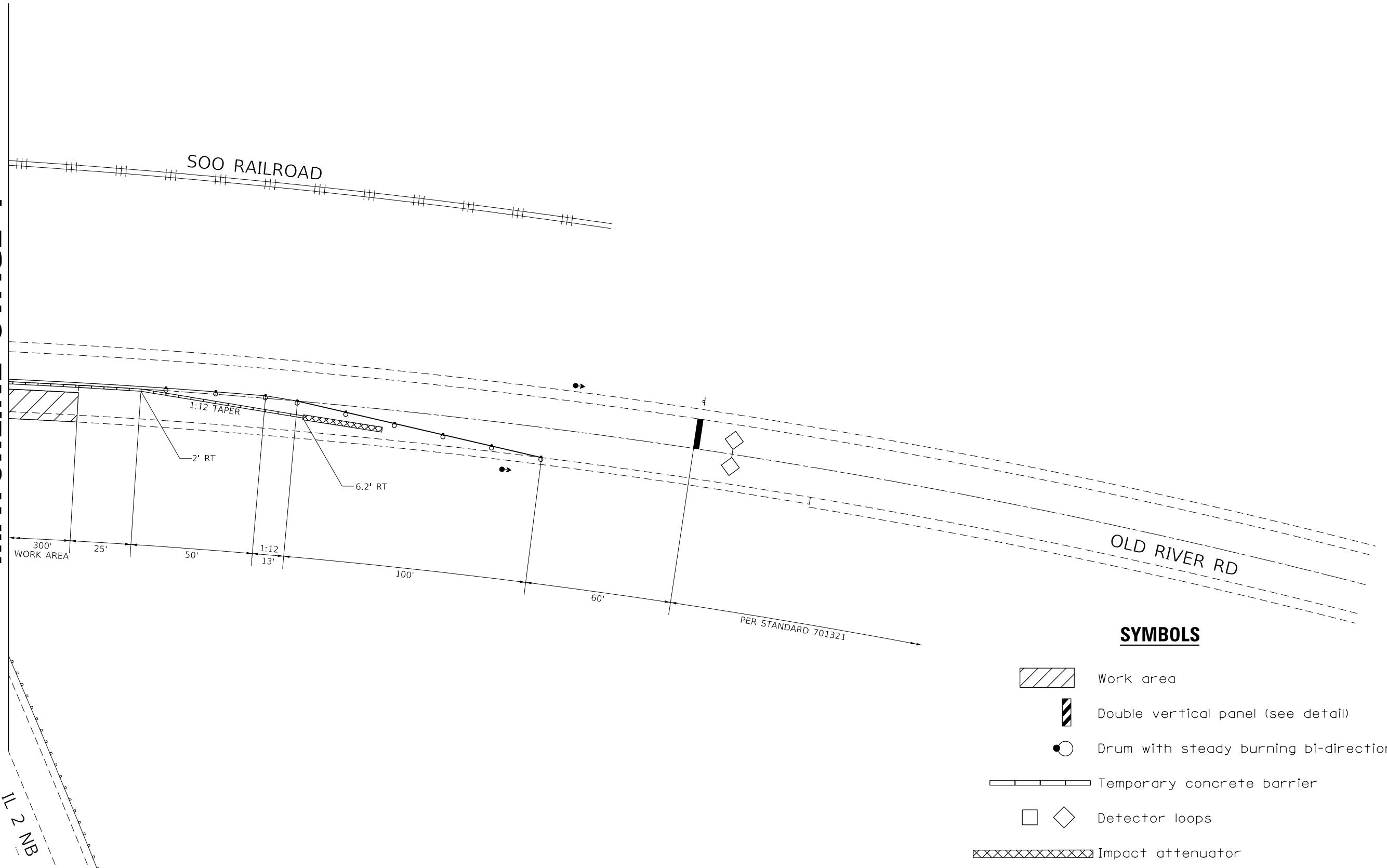
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	6
		64M51		
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN

STAGE I – FOR SN's 101-0127 & 101-0128



MATCHLINE STAGE I



SYMBOLS

- Work area
- Double vertical panel (see detail)
- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Detector loops
- Impact attenuator

MODEL: Default
 FILE: \\nrcs-pw\illinois\dot\Documents\DOT_Offices\Director\Projects\Operations\Bldg_Section\Winnebago\101-0127 & 101-0128\64M51\CADD\DD2-ht-control.dgn

USER NAME = dossed	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 40,0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-29-2018 08:34:43 AM	DATE - _____	REVISED - _____

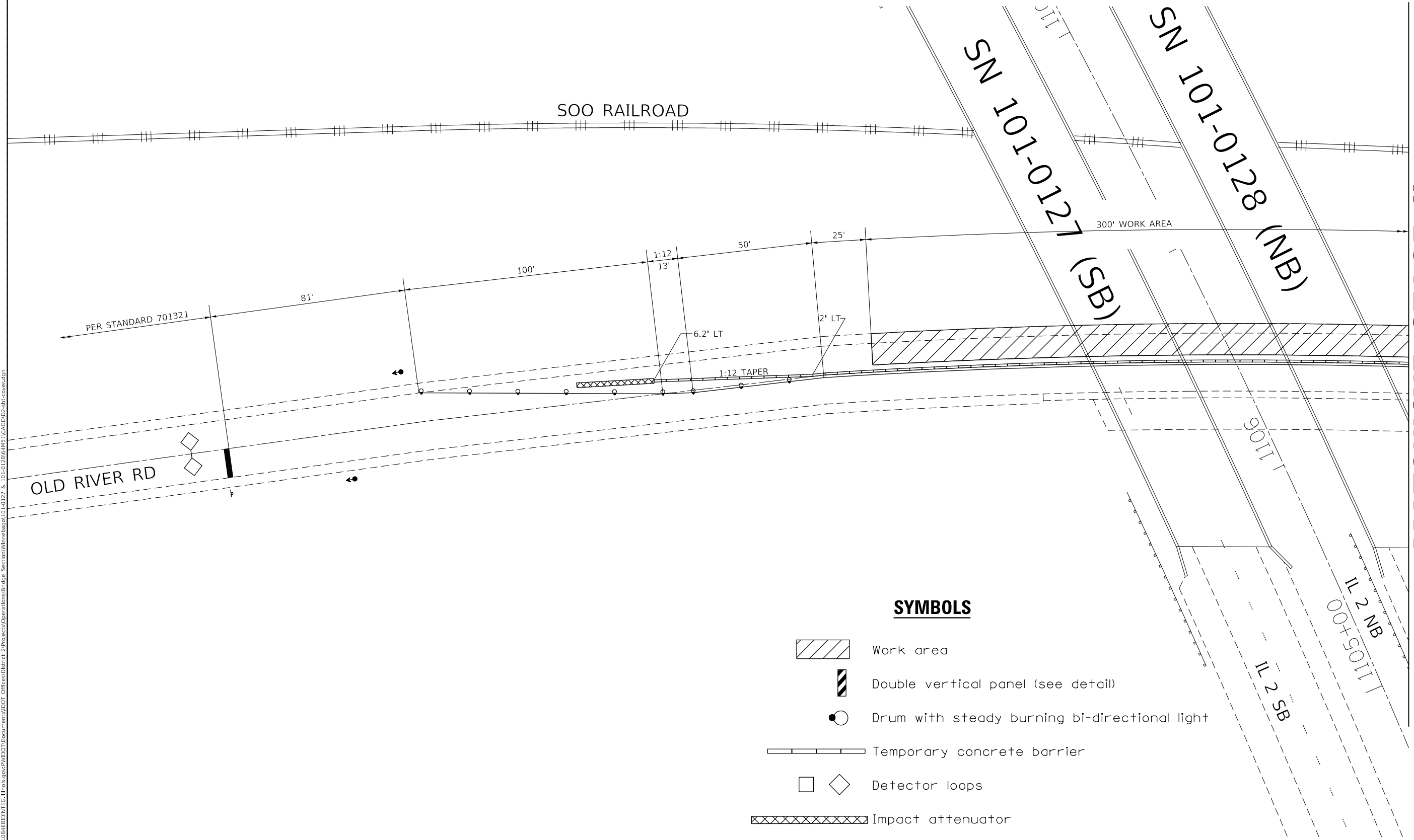
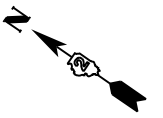
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN	
STAGE I – FOR SN's 101-0127 & 101-0128	
SCALE: _____	SHEET ____ OF ____ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	7
64M51				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN

STAGE II – FOR SN's 101-0127 & 101-0128



SYMBOLS

- Work area
- Double vertical panel (see detail)
- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Detector loops
- Impact attenuator

MODEL: Default
 FILE: \\mspc-pw01\B&E\BID\NTEC\Illinois.gov\PW\DOT\Documents\BID\Office\BID\trct 2\Projects\Operations\Bldg - Section\W\m\barac\101-0127 & 101-0128\64M51\CADD\DD2-htc-conver.dgn

USER NAME = drossdd	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	REVISIONS - _____
PLOT SCALE = 40,0000 ' / in.	CHECKED - _____	REVISIONS - _____
PLOT DATE = Jan-29-2018 08:35:48 AM	DATE - _____	REVISIONS - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

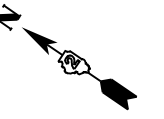
**TRAFFIC CONTROL PLAN
STAGE II – FOR SN's 101-0127 & 101-0128**

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

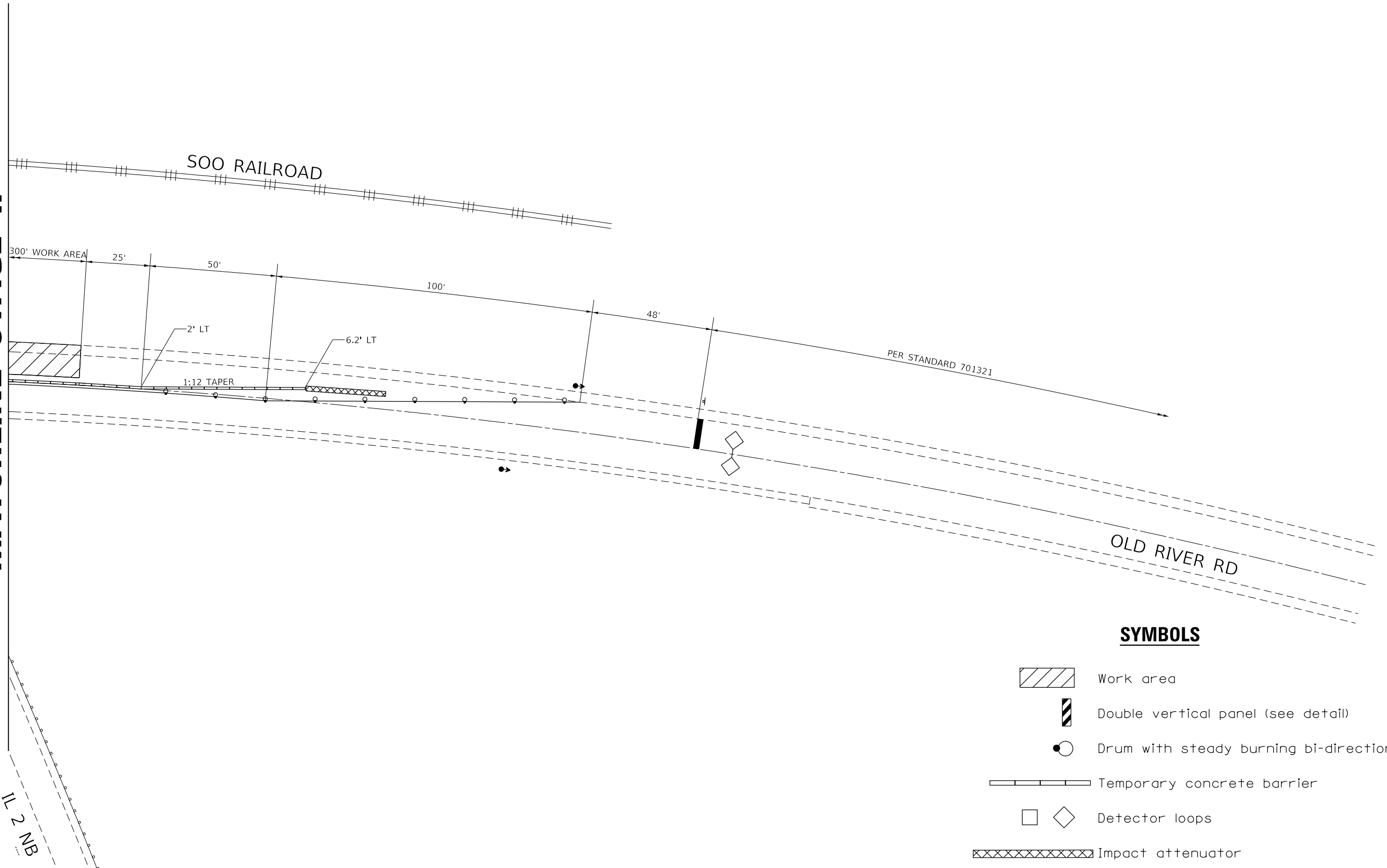
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	8
64M51				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN

STAGE II – FOR SN's 101-0127 & 101-0128



MATCHLINE STAGE II



SYMBOLS

- Work area
- Double vertical panel (see detail)
- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Detector loops
- Impact attenuator

MODEL: Default
 FILE: \\msc01ulb08e01dntec\illinois\pov\pww\DOT\Documents\DOT_Offices\Director_2\Projects\Operations\Bldggs_Section\Winnebago\101-0127 & 101-0128\64M51\CADD\DD2-htc-conver.dgn

USER NAME = dossed	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 40,0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = Jan-29-2018 08:36:02 AM	DATE - _____	REVISED - _____

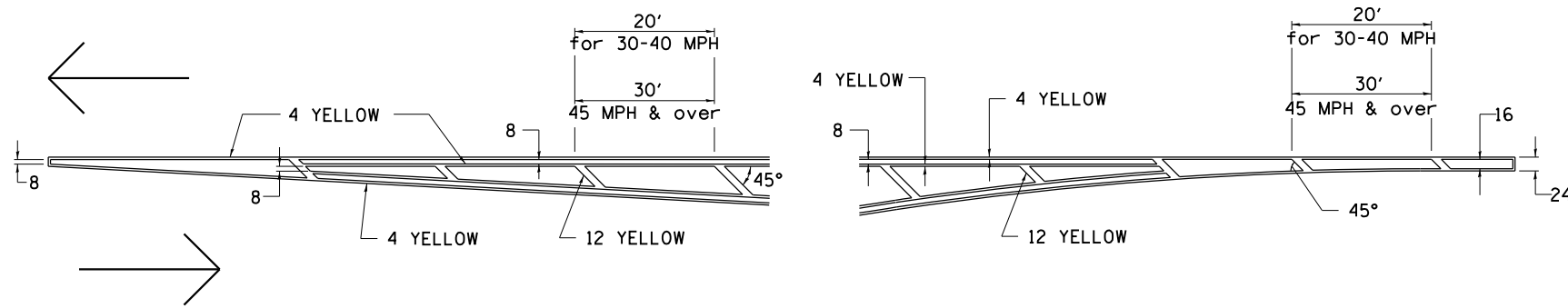
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN	
STAGE II – FOR SN's 101-0127 & 101-0128	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

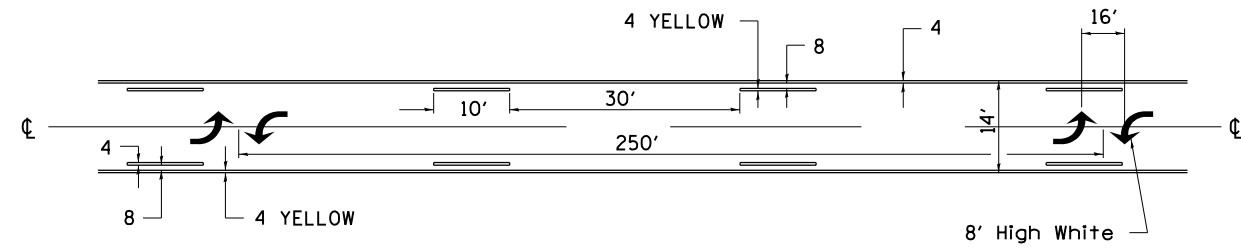
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	9
64M51				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

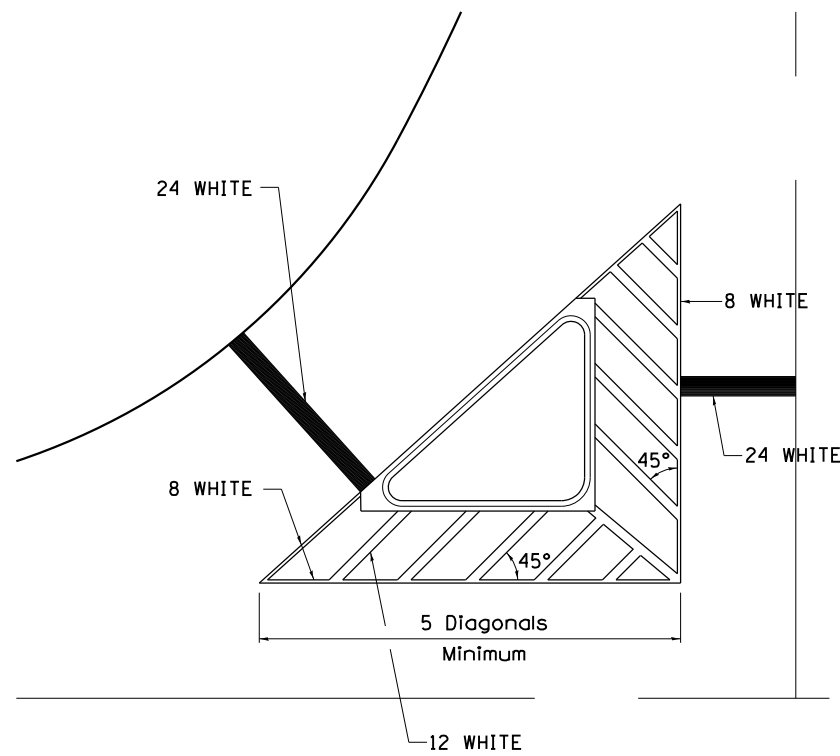


MEDIAN PAVEMENT MARKING



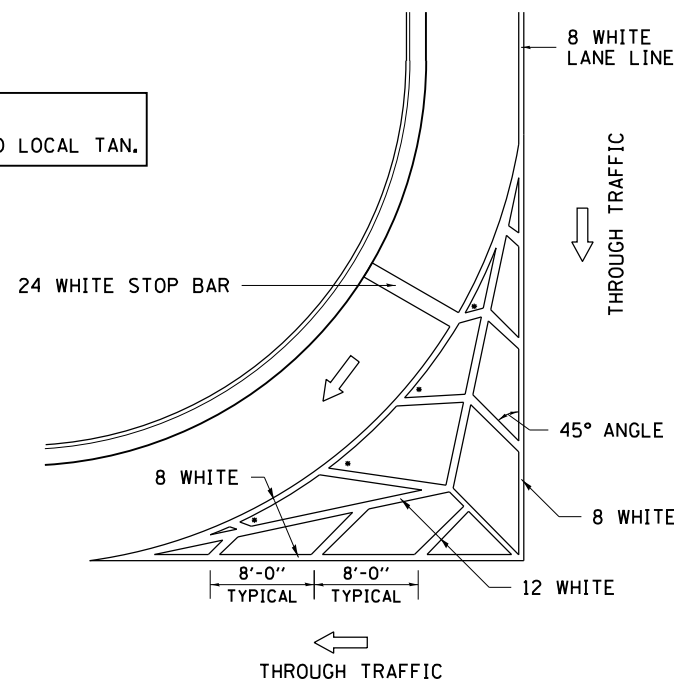
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



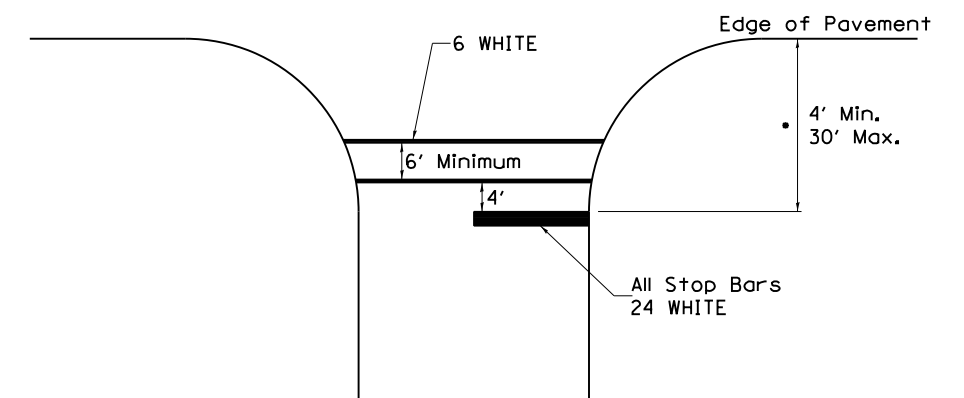
TYPICAL MARKING FOR PAINTED ISLANDS

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 = dosddd	DESIGNED -	REVISED - 6-27-14
p:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 2\Projects\Open Road\Bridges\Section\Winnebago\101-0127			
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

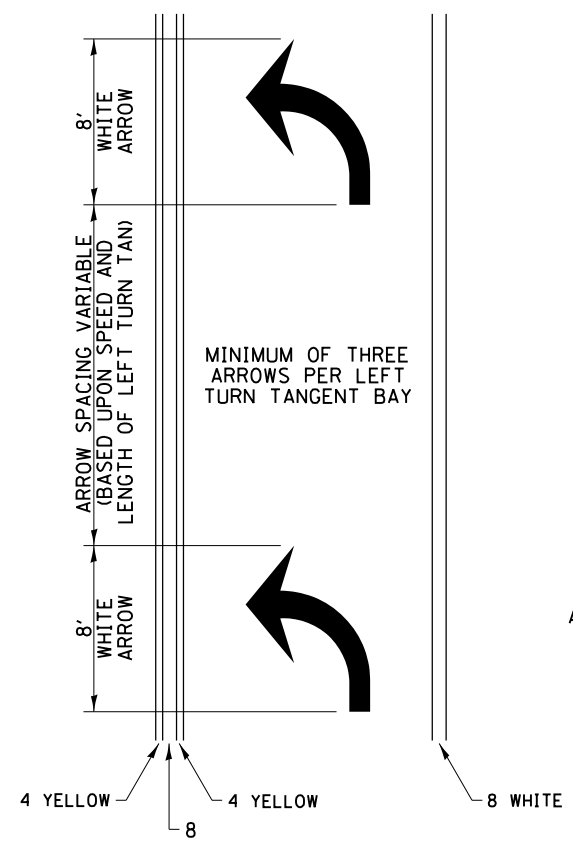
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	10
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M51	

TYPICAL PAVEMENT MARKINGS

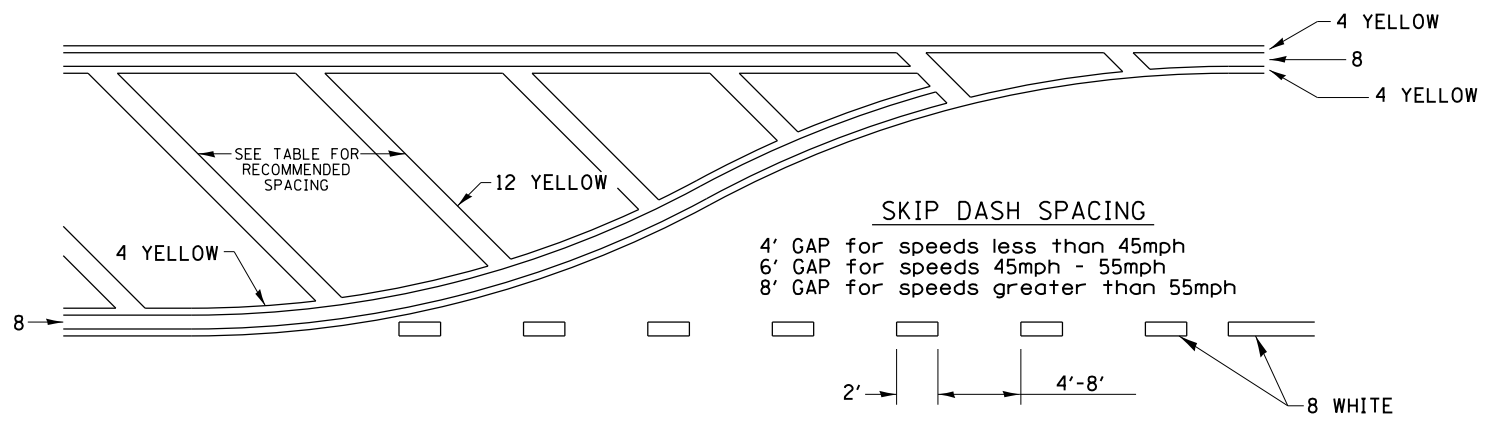
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

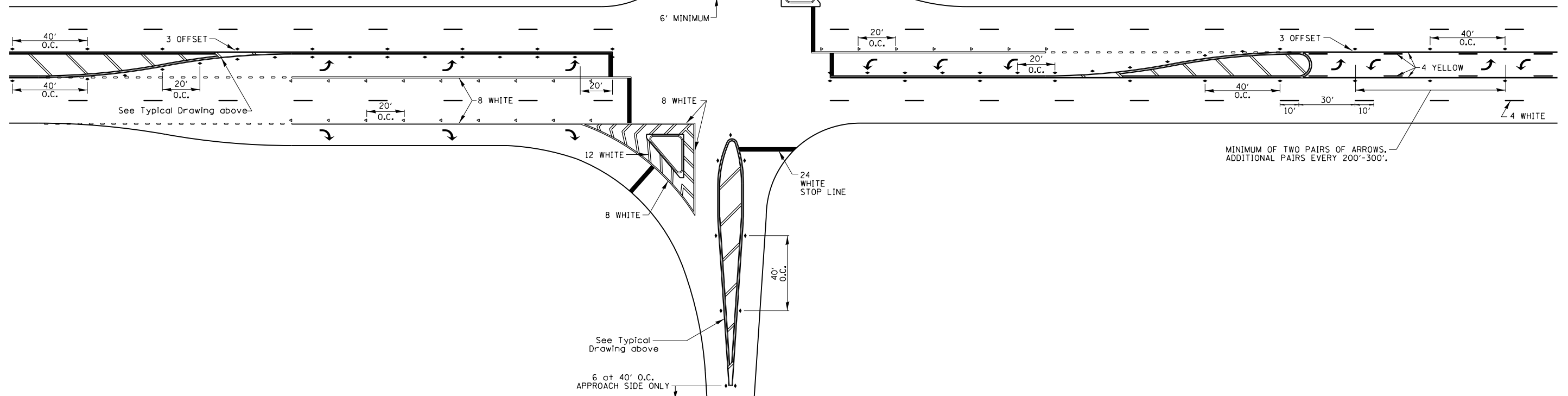
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

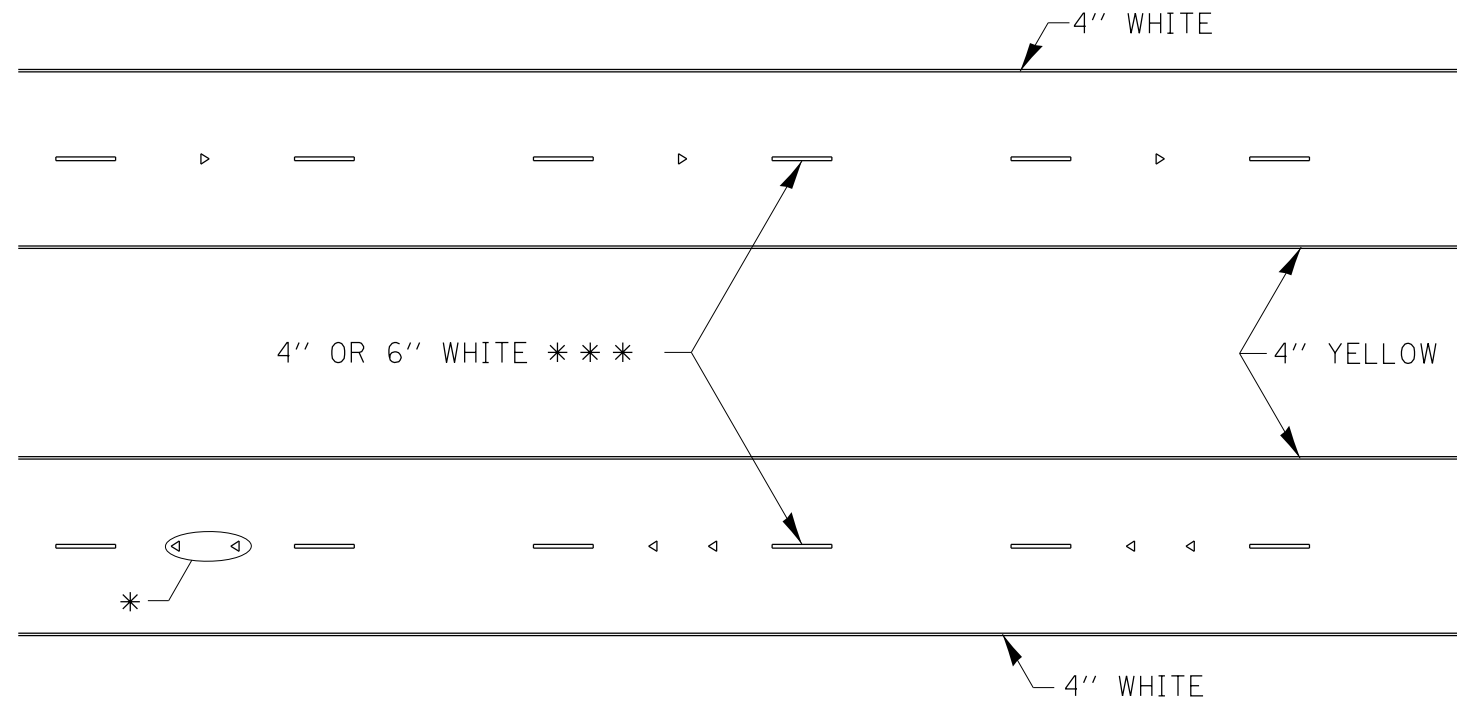
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



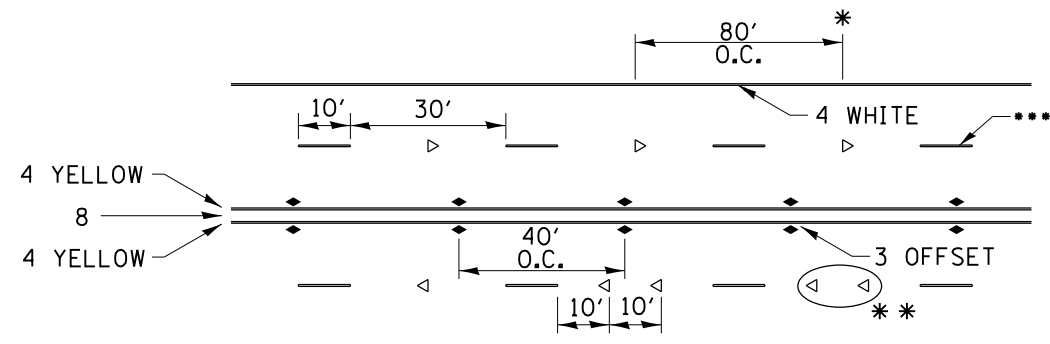
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE. 734	SECTION (77-1HV)BP-1	COUNTY WINNEBAGO	TOTAL SHEETS 13	SHEET NO. 11	
DRAWN BY: [unreadable]					CONTRACT NO. 64M51	SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
PLOT SCALE = 1/8" = 1'-0"					CHECKED -	REVISED -						
PLOT DATE = Jan-29-2018 08:32:47 AM					DATE -	REVISED -						

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



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

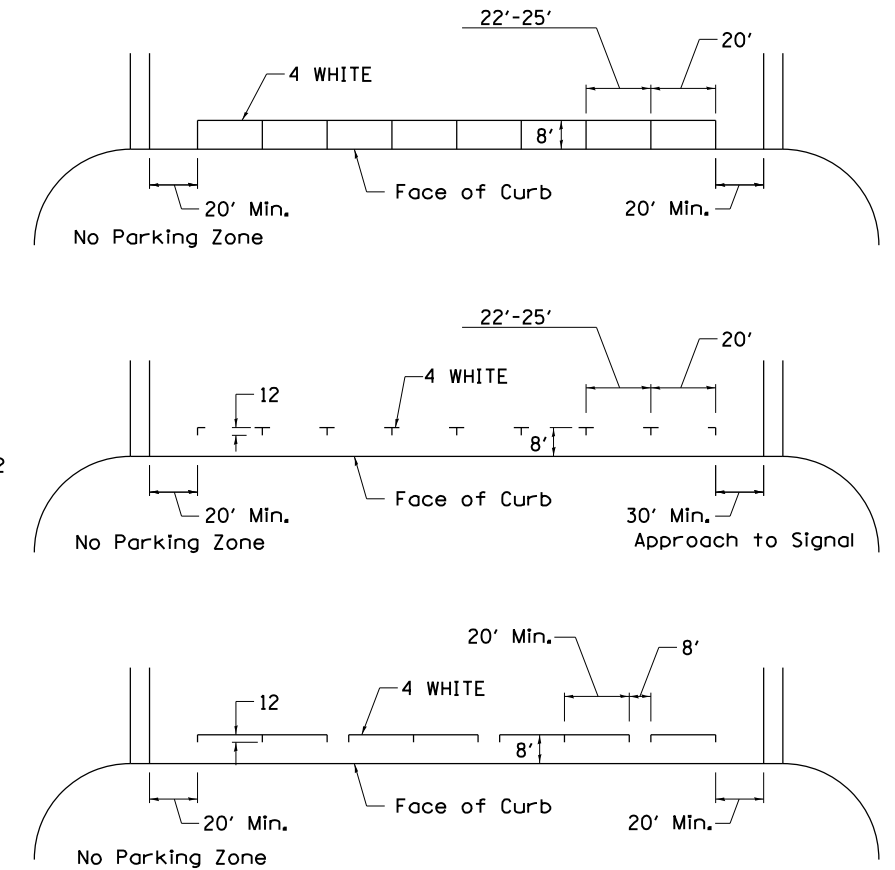
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

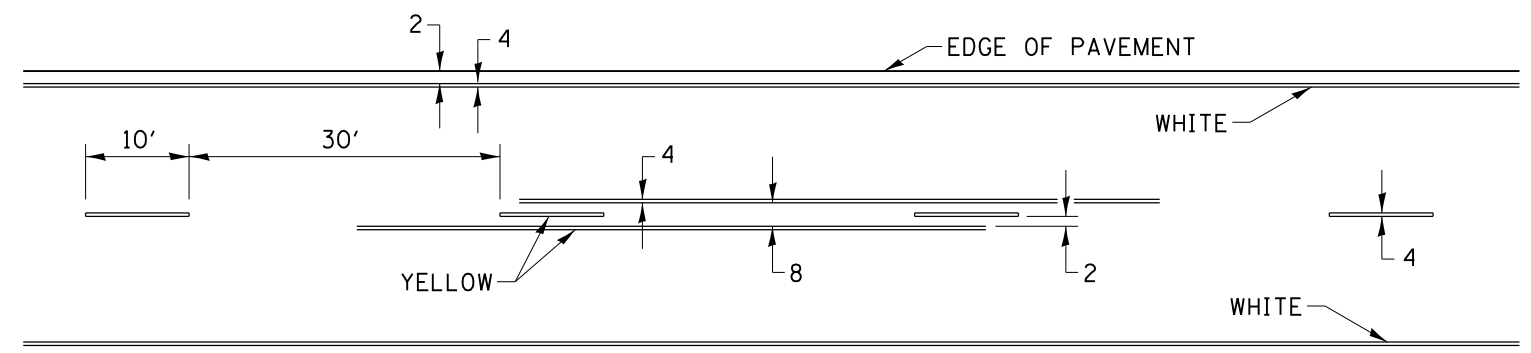
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\Open Road\Bridges\Section\Winnabago\101-0127			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR = 64MS1	REVISOR = 64MS1
PLOT DATE = Jan-29-2018 08:32:54 AM	DATE -	REVISOR = 11-28-12	REVISOR = 11-28-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

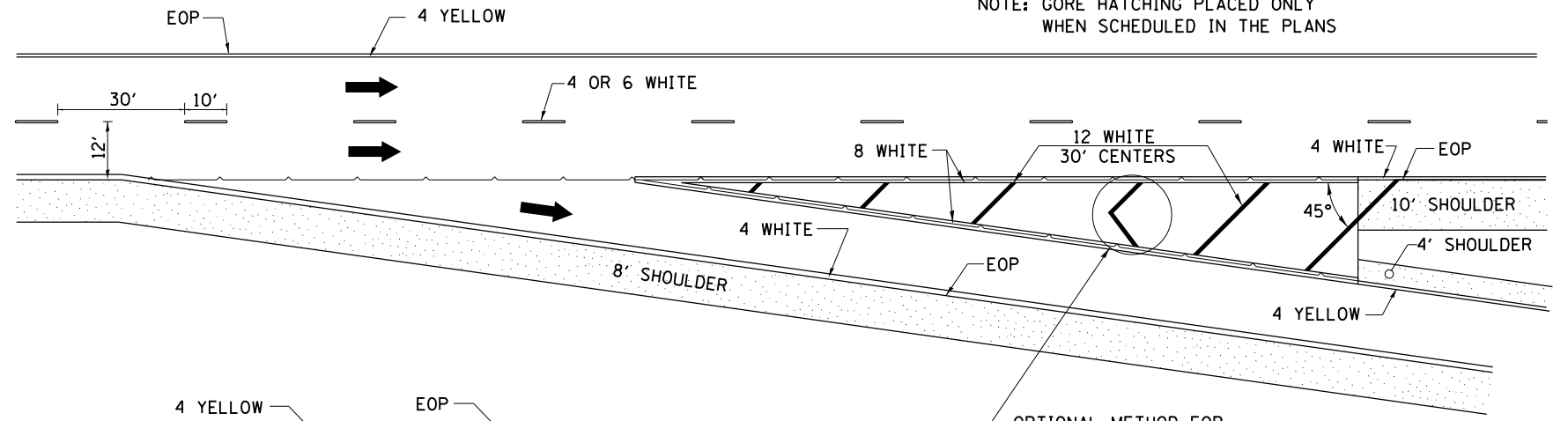
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	(77-1HVB)BP-1	WINNEBAGO	13	12
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M51	

PAINING DETAILS

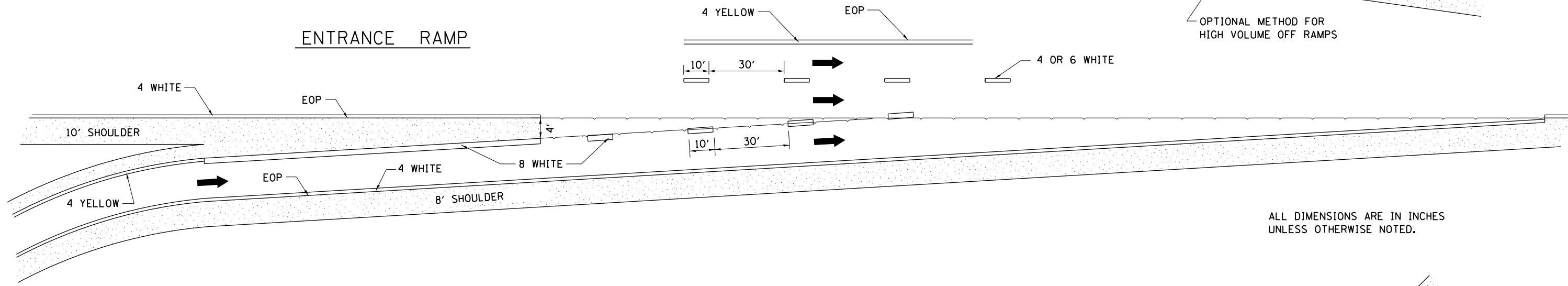
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

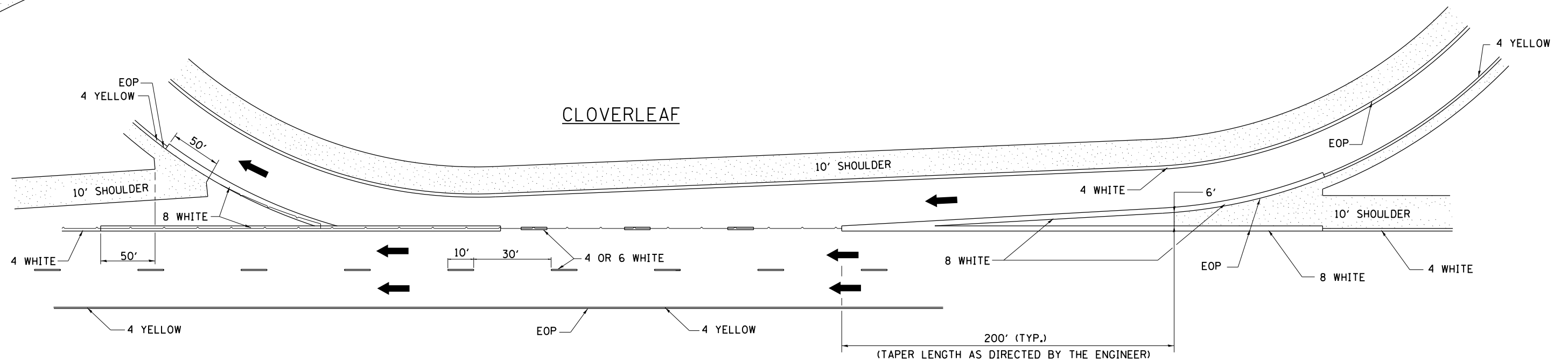


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\Open\Bridges\Section\Winnebago\101-0127&REVISED\64M51\101-0127-11t-cover.dgn			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = Jan-29-2018 08:33:14 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	(77-1HVB)BP-1	WINNEBAGO	13	13
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64M51	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

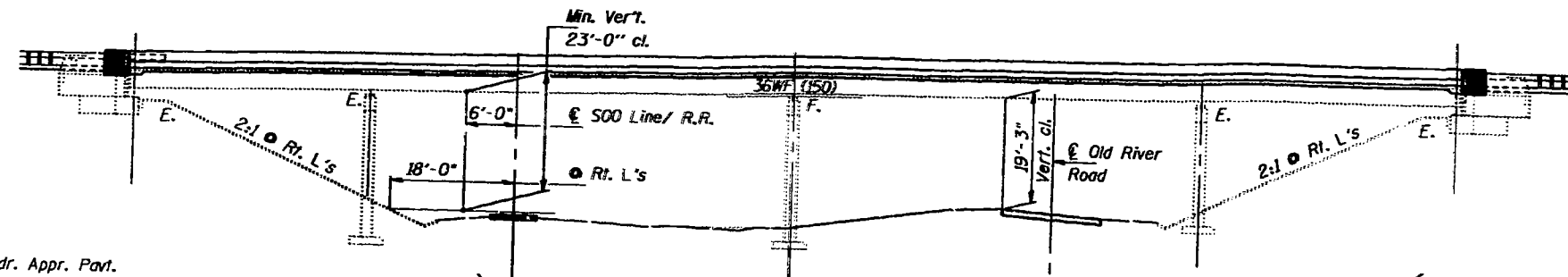
ROUTE NO.	DISTRICT	COUNTY	SECTION	SHEET NO.
F.A. 734	77	WINNEBAGO	126	82
SHEET NO. 1 24 SHEETS				

Bench Mark: N.E. corner of the N.B. structure #101-0128 Elev. 768.34
Existing Structure: #101-0127 (S.B.) & #101-0128 (N.B.) are 264'-11" Bk. to Bk. Abuts. and 36'-0" O. to O. of deck.
The existing dual structures consist of a four span continuous WF beam supporting a 7" RC. deck.
Built as S.B.I. Rte. 2 Section 77-1HVB at Sta. 223+07.95 in 1967.
The traffic shall be maintained during the rehabilitation of the existing structures utilizing stage construction.

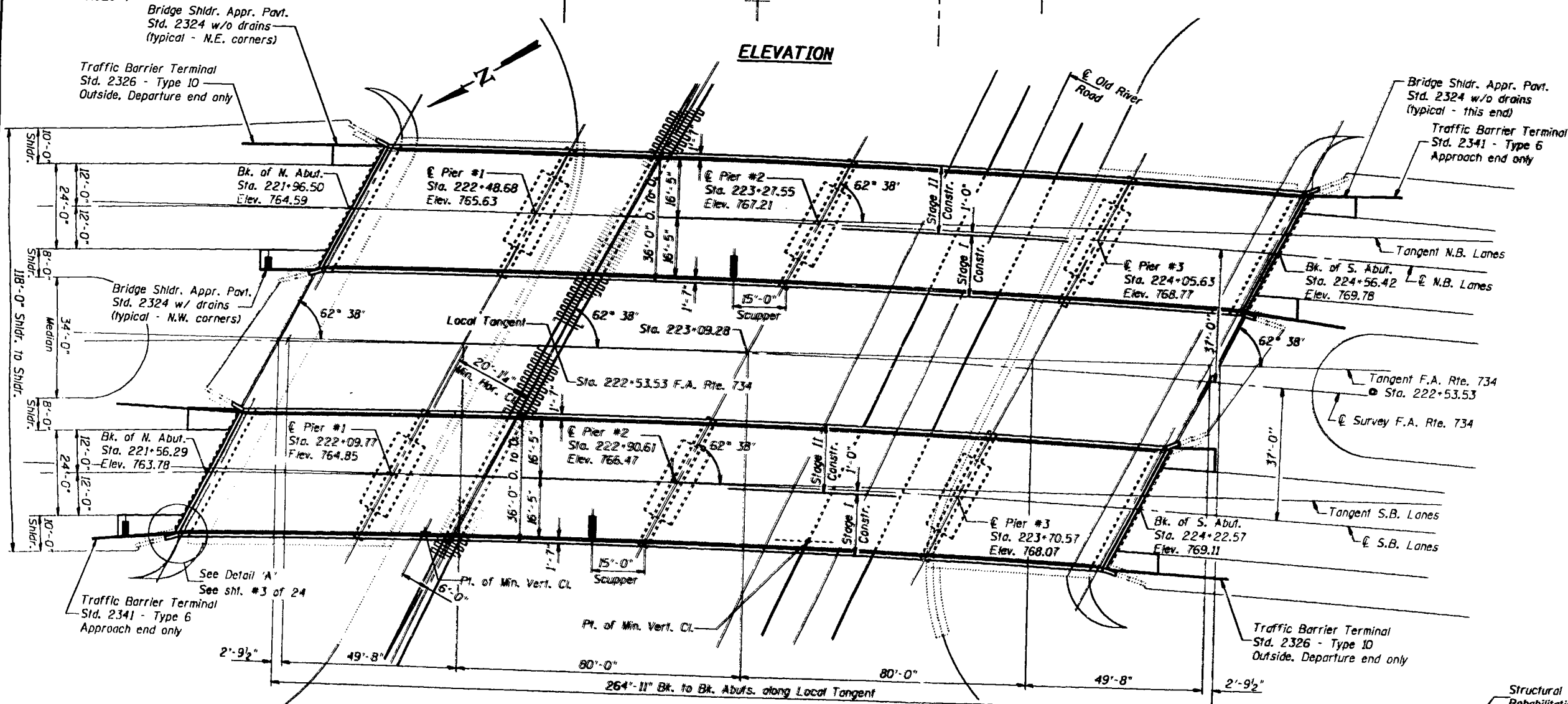
No Salvage.

**F.A. Rte. 734
CURVE DATA**

OVER OLD RIVER ROAD
 $\Delta = 55^\circ-13'-00''$
 $D = 1^\circ-30'-00''$
 $T = 1997.67'$
 $L = 3681.11'$
 $E = 490.83'$
 $R = 3819.83'$
 $S.E. = -0.020 \text{ ''}$



ELEVATION



PLAN

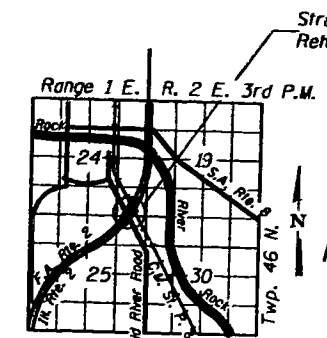
DESIGN SPECIFICATIONS

AASHTO 1989 and Seismic Retrofitting
Guideline: for Highway Bridges
LOADING HS 20-44
Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

NEW CONSTRUCTION
 $f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinf.)}$

$f'_c = 36,000 \text{ psi (A-36 Structural Steel) (Existing)}$
 $f_y = 36,000 \text{ psi (M183) (New Steel)}$



LOCATION SKETCH

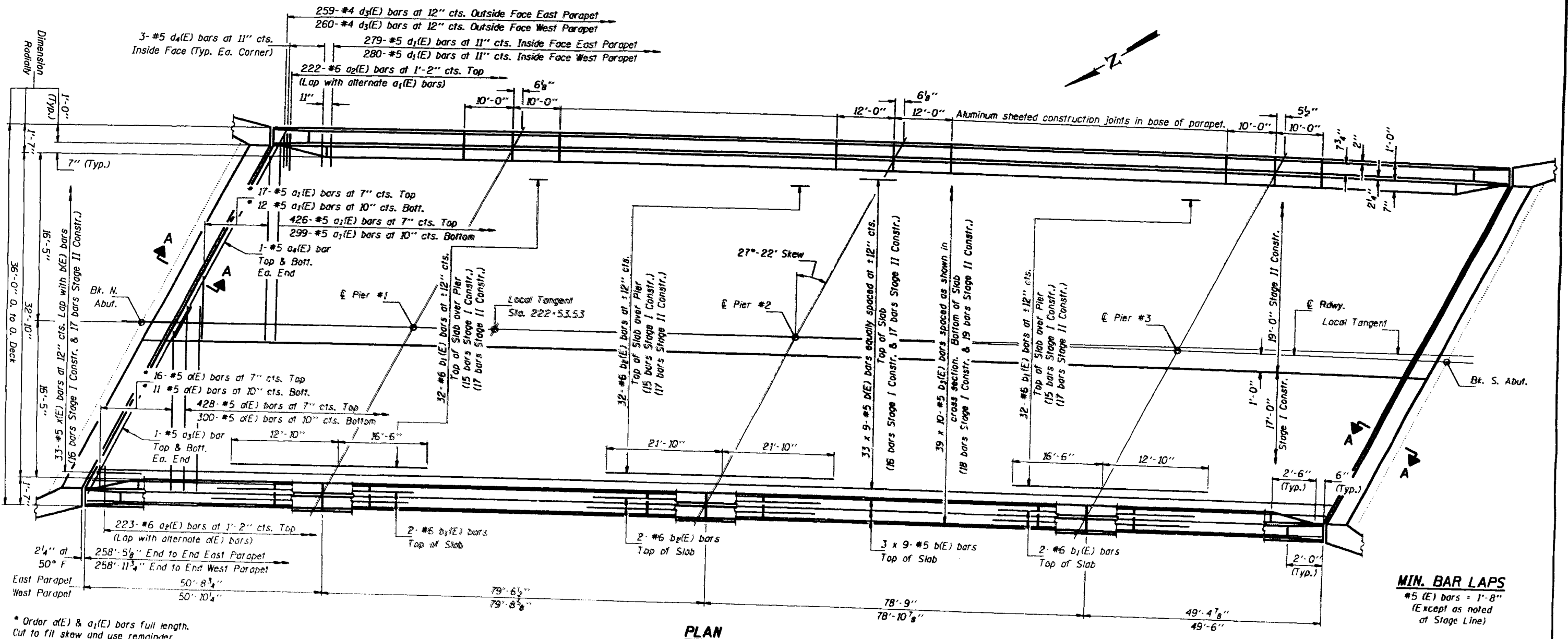
GENERAL PLAN
 ILL. ROUTE 2 OVER
 500 LINE R.R. & OLD RIVER ROAD
 F.A. ROUTE 734 SECTION 77-1HVB
 WINNEBAGO COUNTY
 STATION 223+09.28
 STRUCTURE NUMBER 101-0127 (S.B.)
 STRUCTURE NUMBER 101-0128 (N.B.)

DESIGNED	March 12 1991
CHECKED	EXAMINED
PAUL W. SWEET	RALPH E. ANDERSON
DRAWN JOHN F. SCHNOLLER JR.	APPROVED
CHECKED	DIRECTOR OF HIGHWAYS

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA.	POST MILE	SHEET NO. 8
F.A. 734	77- HWBD	WINNEBAGO	126	88	24 SHEETS
FILE NO. DIST. 7	SCALE	PROJECT			



PLAN

* Order a(E) & a1(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

MIN. BAR LAPS
#5 (E) bars = 1'-8"
(Except as noted
at Stage Line)

Notes:
See Sheet #10 of 24 for Cross Section and
Section A-A.
See Sheet #11 of 24 for superstructure details,
parapet reinforcement and Bill of Material.
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
All b(E) thru b2(E) bars shall be placed along
the curve.

DESIGNED *Christopher H. McKays*
CHECKED *John F. Schnoller Jr.*
DRAWN *John F. Schnoller Jr.*
CHECKED *LHM*

EXAMINED *Greg J. Kasper*
PASSED *Ralph E. Ankum*
APPROVED _____
DIRECTOR OF HIGHWAYS

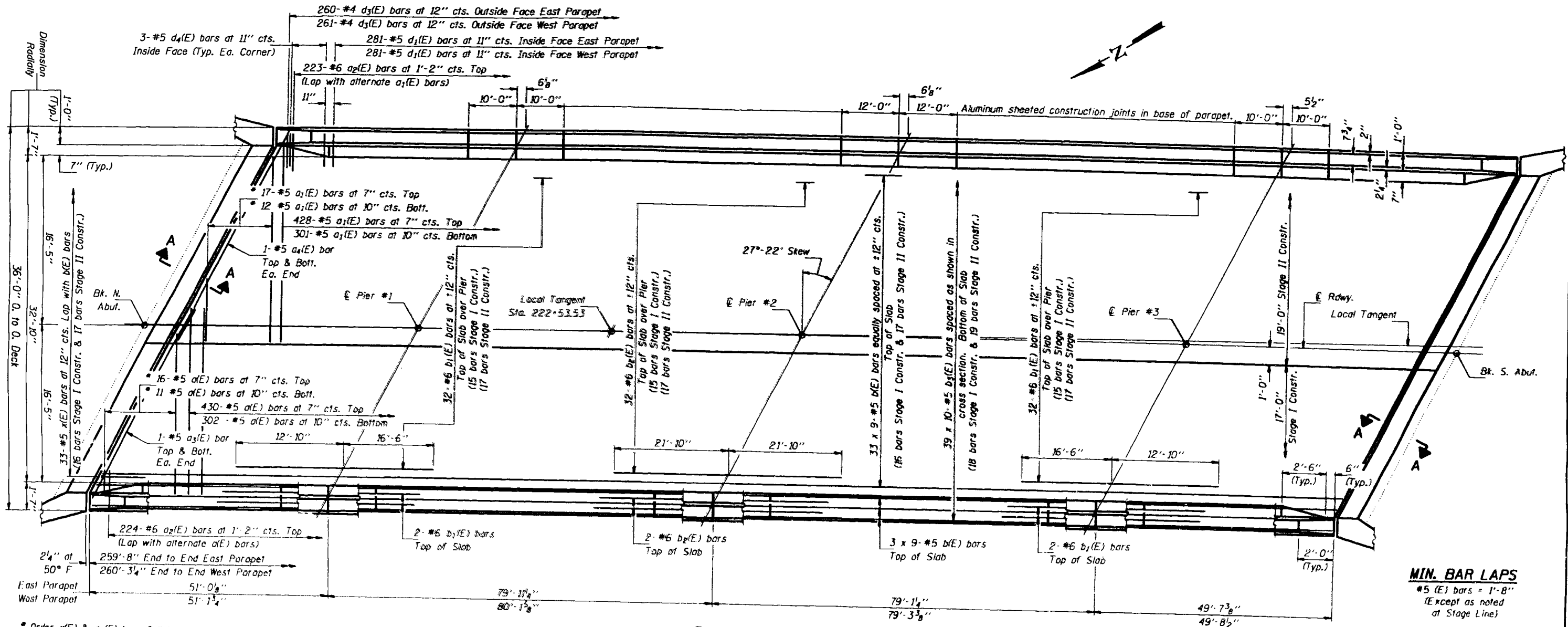
March 12 1991

FOR INFORMATION ONLY

SUPERSTRUCTURE
NORTH BOUND LANES
F.A. RT. 734 SEC. 77-1HWBD
WINNEBAGO COUNTY
STA. 223+09.28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 9 24 SHEETS
F.A. 734	77- IHVBD	WINNEBAGO	126	59	
PUBLISHED DATE, NO. 1	NO. 2000	PUBLISHED PROJECT			



PLAN

* Order d(E) & a1(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.

MIN. BAR LAPS
#5 (E) bars = 1'-8"
(Except as noted
at Stage Line)

Notes:
See Sheet #10 of 24 for Cross Section and
Section A-A.
See Sheet #11 of 24 for superstructure details,
parapet reinforcement and Bill of Material.
Reinforcement bars designated (E) shall be
epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
All b(E) thru b2(E) bars shall be placed along
the curve.

DESIGNED *Christopher H. Madala*
CHECKED *Bul. A. Johnson*
DRAWN *John F. Schneller Jr.*
CHECKED *CHM* *KES*

EXAMINED *March 12 1991*
Logi O. Kasper
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

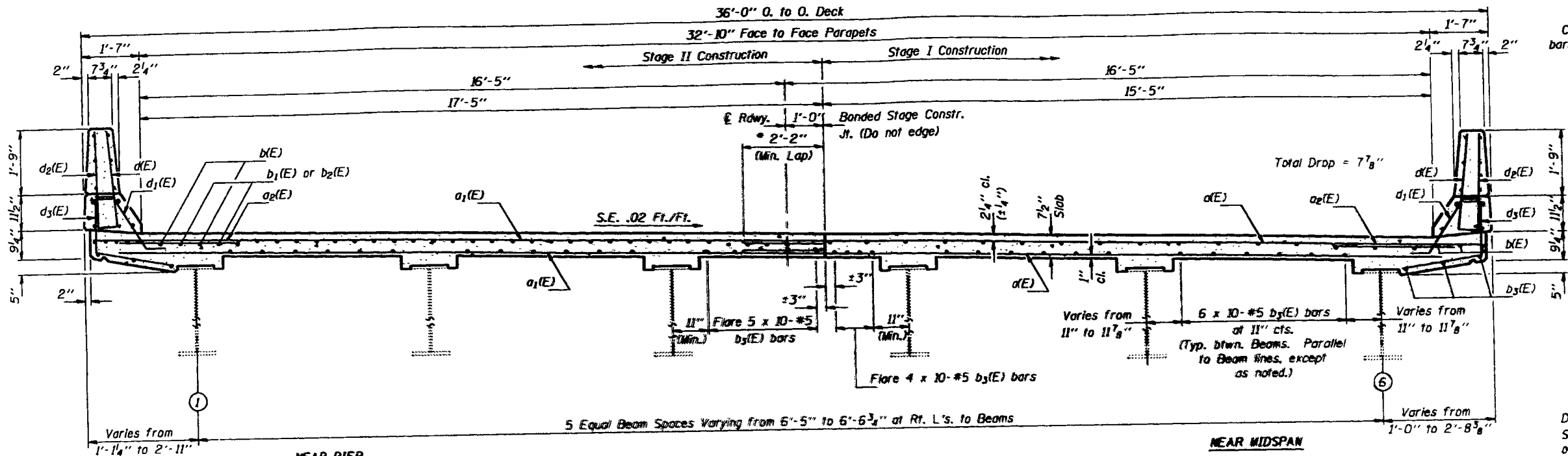
APPROVED _____
DIRECTOR OF HIGHWAYS

FOR INFORMATION ONLY

SUPERSTRUCTURE
SOUTH BOUND LANES
F.A. RT. 734 SEC. 77-IHVBD
WINNEBAGO COUNTY
STA. 223+09.28

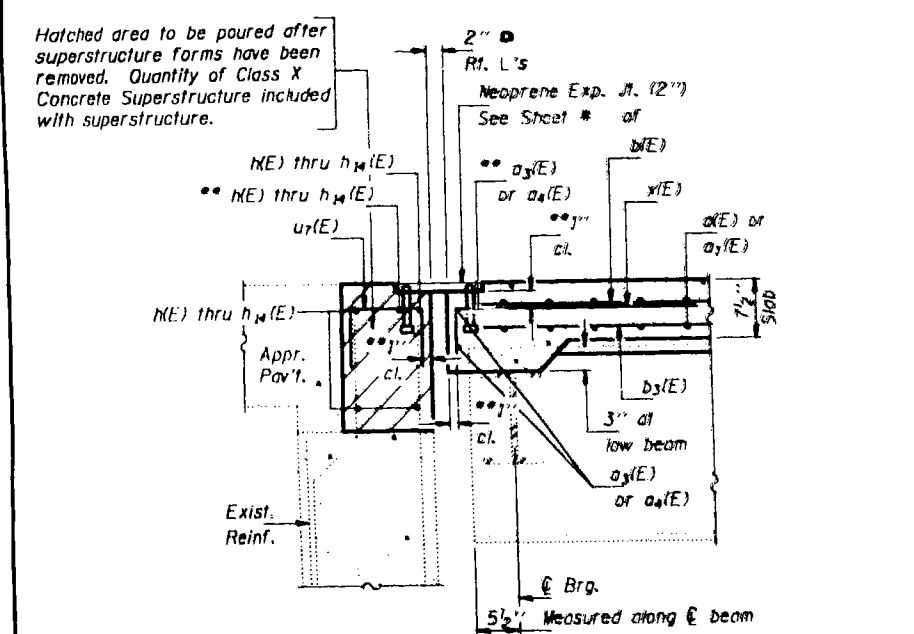
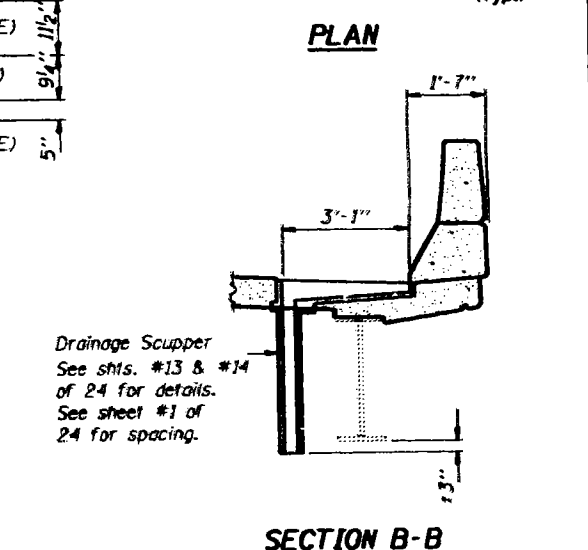
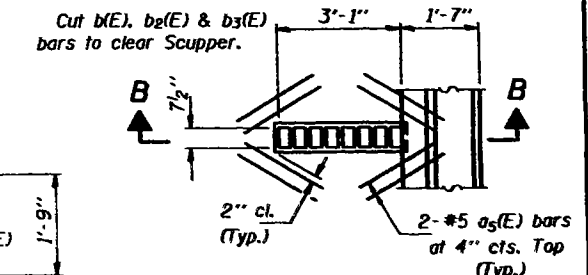
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA.	NO.	SHEET NO.
F.A. 734	77- IHVB	WINNEBAGO	126	90	24 SHEETS
PROJECT NO. 7		SHEET NO. 1		PROJECT NO.	

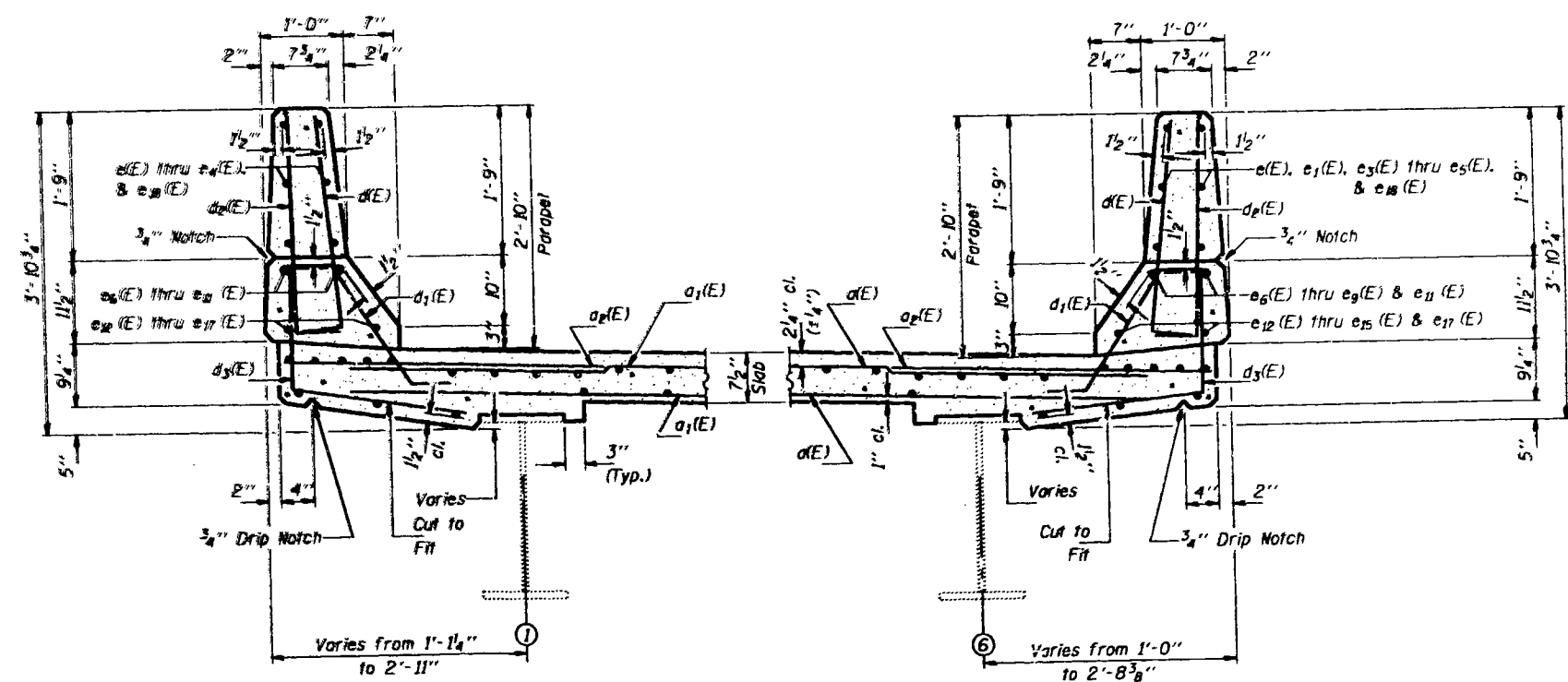


* Bars shall be tied with double the number of ties normally used.

CROSS SECTION
(Looking South)



** Place a₃(E) or a₄(E) bars and NE) thru h₁₄(E) bars in back of anchor bolts as shown if required to maintain 1" cl. (+0-1/8"). Anchor bolts should be tied to a₃(E) or a₄(E) and NE) thru h₁₄(E) bars.



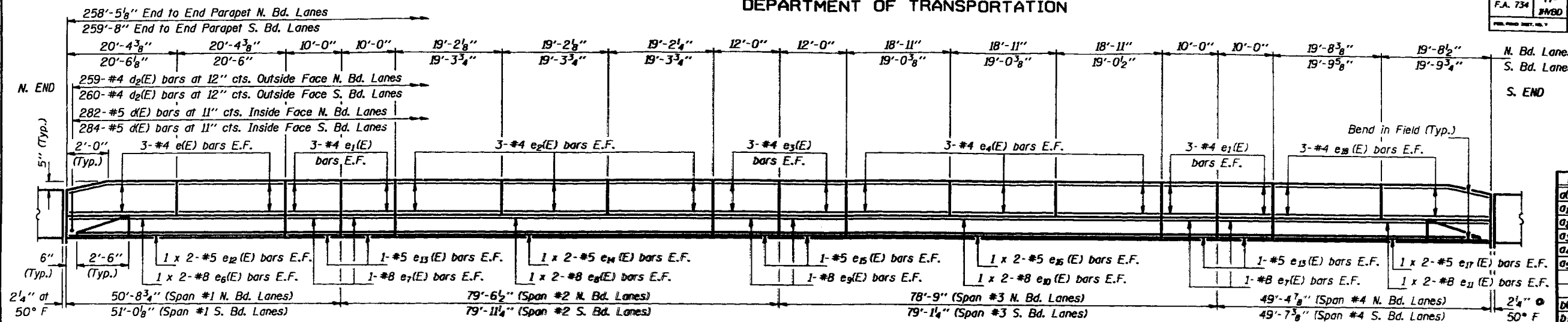
DESIGNED	March 12 1991
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED

FOR INFORMATION ONLY

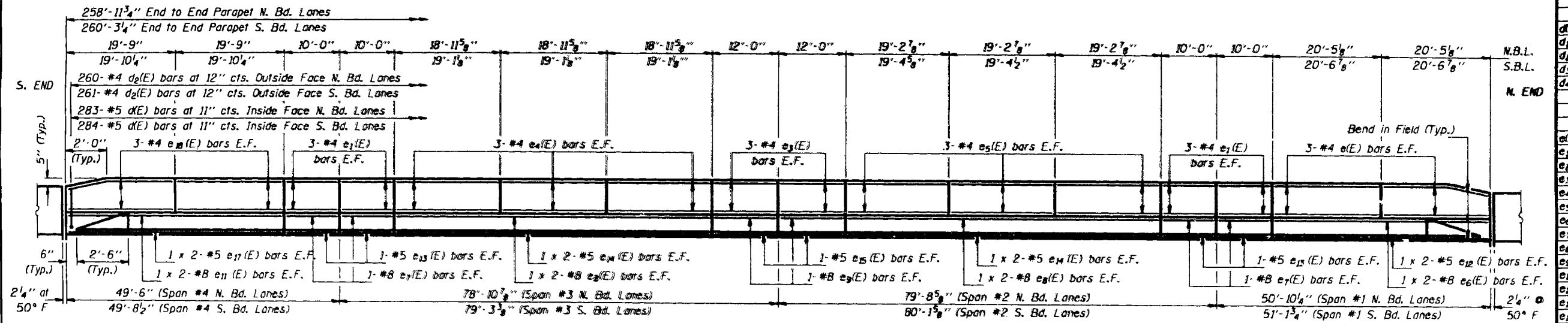
SUPERSTRUCTURE DETAILS
F.A. RT. 734 SEC. 77-IHVB
WINNEBAGO COUNTY
STA. 223+09.28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DRAWN	DATE	SHEET NO.
F.A. 734	77-1HVBD	WINNEBAGO	126	31
SHEET NO. 11 24 SHEETS				



INSIDE ELEVATION OF EAST PARAPETS



INSIDE ELEVATION OF WEST PARAPETS

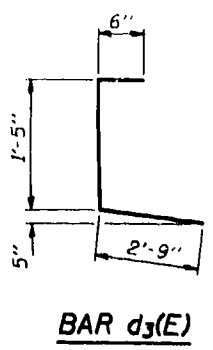
MIN. BAR LAPS
#5 (E) bar = 2'-2"
#8 (E) bar = 4'-6"

**TWO SUPERSTRUCTURE
BILL OF MATERIAL**

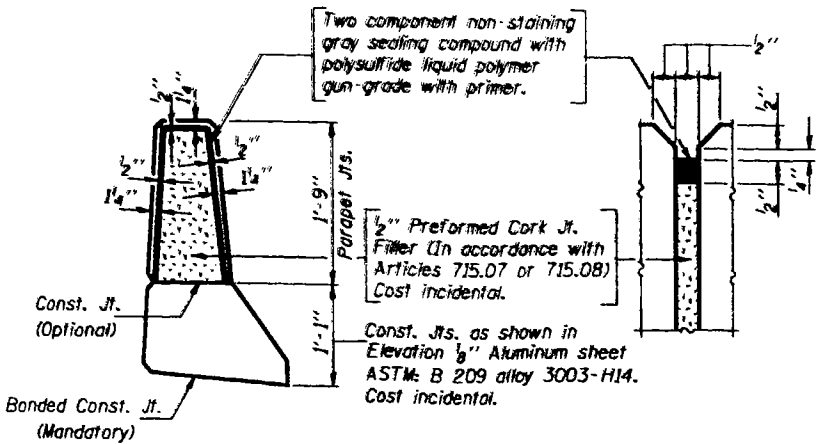
Bar	No.	Size	Length	Shape
d1(E)	1514	#5	18'-2"	—
d2(E)	1512	#5	18'-0"	—
a2(E)	892	#6	4'-0"	—
a3(E)	8	#5	20'-6"	—
a4(E)	8	#5	20'-3"	—
a5(E)	16	#5	2'-0"	—
b1(E)	702	#5	30'-5"	—
b2(E)	144	#6	29'-4"	—
b3(E)	72	#6	43'-8"	—
b4(E)	780	#5	27'-6"	—
d3(E)	1133	#5	3'-0"	—
d4(E)	1121	#5	2'-7"	—
d5(E)	1040	#4	3'-0"	—
d6(E)	1040	#4	4'-8"	—
d7(E)	24	#5	2'-5"	—
e1(E)	48	#4	20'-2"	—
e2(E)	96	#4	9'-9"	—
e3(E)	36	#4	18'-11"	—
e4(E)	48	#4	11'-9"	—
e5(E)	72	#4	10'-7"	—
e6(E)	36	#4	19'-0"	—
e7(E)	16	#8	22'-8"	—
e8(E)	32	#8	9'-9"	—
e9(E)	24	#8	31'-2"	—
e10(E)	16	#8	11'-9"	—
e11(E)	8	#8	30'-8"	—
e12(E)	16	#8	22'-0"	—
e13(E)	16	#5	21'-6"	—
e14(E)	32	#5	9'-9"	—
e15(E)	24	#5	30'-0"	—
e16(E)	16	#5	11'-9"	—
e17(E)	8	#5	29'-6"	—
e18(E)	16	#5	20'-9"	—
e19(E)	48	#4	19'-5"	—
x(E)	132	#5	4'-1"	—
Reinforcement Bars (Epoxy Coated)		Lbs.	143,230	
Class X Concrete Superstructure		Cu. Yds.	618.1	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

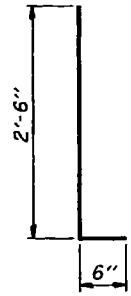
SUPERSTRUCTURE DETAILS
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28



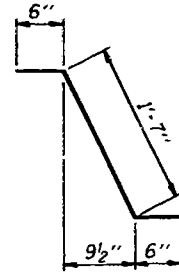
BAR d3(E)



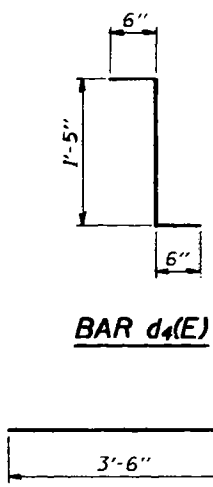
PARAPET JOINT DETAILS



BARS d(E) & d2(E)



BAR d1(E)



BAR x(E)

DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DRAWN: John F. Schneller Jr.
CHECKED: *[Signature]*

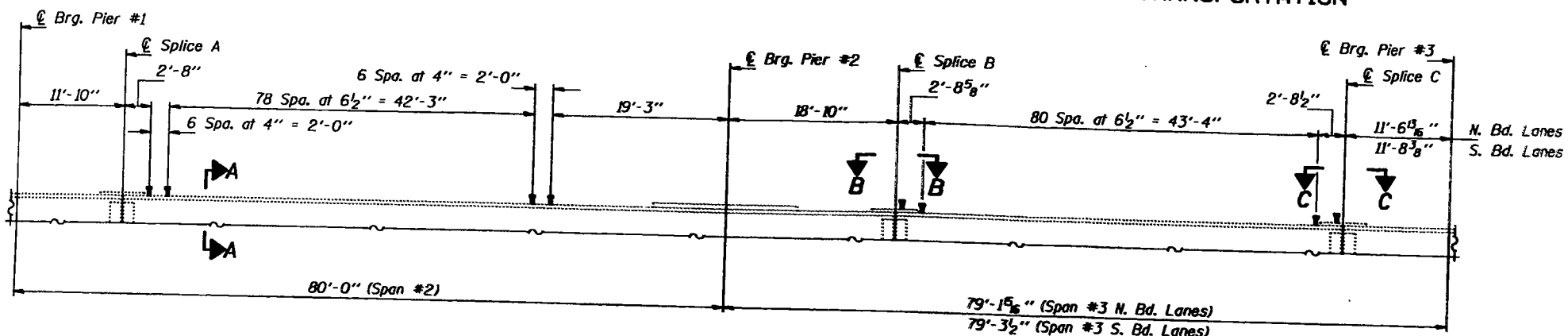
March 12 1991
EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*
DIRECTOR OF HIGHWAYS

S-1-D

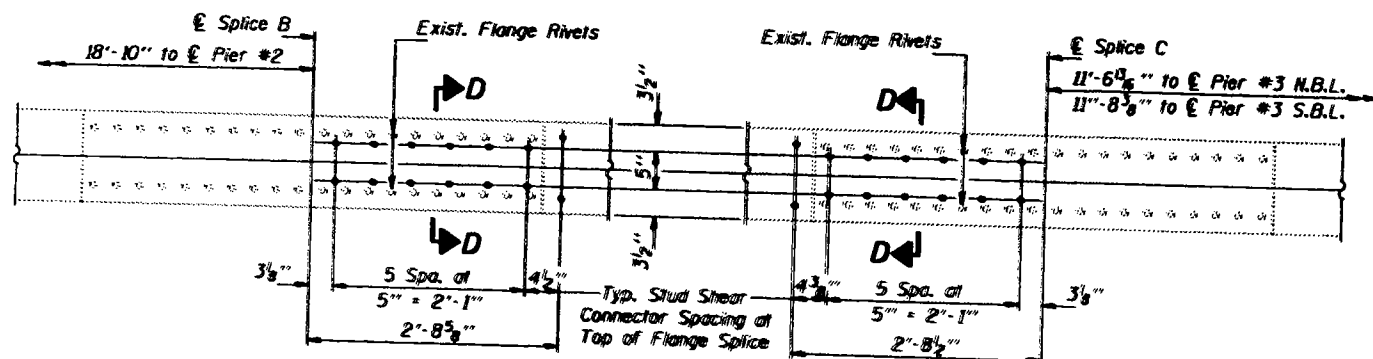
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET	DATE
F.A. 734	77-	WINNEBAGO	126	95
SHEET NO. 15		24 SHEETS		

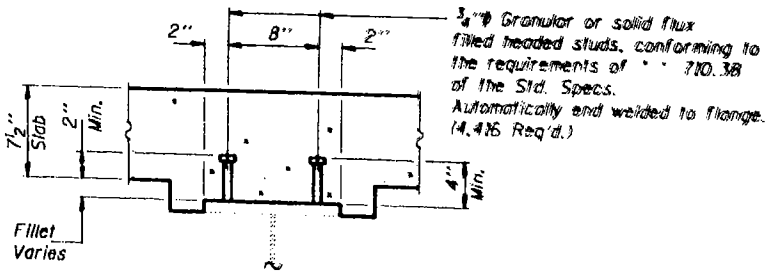


BEAM ELEVATION
(Typ. Stud Shear Connector Spacing for all Beams)
All dimensions are along \bar{C} of beams.

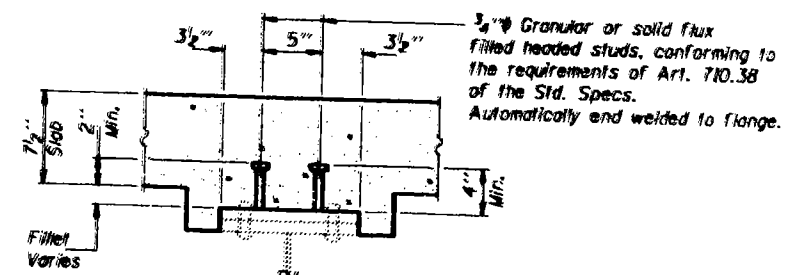


VIEW B-B
Dimensions along \bar{C} Beams at all Existing Beams

VIEW C-C
Dimensions along \bar{C} Beams at all Existing Beams



SECTION A-A



SECTION D-D

	0.4 Sp. #1 or 0.6 Sp. #4	Pier #1 or Pier #3	0.5 Sp. #2 or 0.5 Sp. #3	Pier #2
I_s (in ⁴)	9012	9012	22242	12644
I_c (in ⁴)				
S_s (in ³)	503	503	503	686
S_c (in ³)				
Z (in ³)	580	580	714	
M (K/ft.)	1.075	1.075	.801	1.075
M_E (K)	144	435	221	644
M_S (K/ft.)			.274	
M_{S_E} (K)			99	
M_L (K)	292	265	491	339
M (Imp.) (K)	83	70	120	83
M_0 (K)	625	558	1018	703
M_u (K)	1000	1291	1740	1752
M_u (K)	1740	1740	3017	
f_s non-comp (k.s.i.)	3.44	10.38	5.27	11.27
f_s (comp) (k.s.i.)			1.66	
$f_s \cdot S_y (k \cdot i)$ (k.s.i.)	14.91	13.32	17.12	12.30
f_s (Overload) (k.s.i.)	18.35	23.70	24.05	23.58
f_s (Total) (k.s.i.)		30.81		30.65
VR (K)			44.6	

	Abutts.	Pier 1 or 3	Pier 2
R_P (K)	17.9	75.7	91.2
R_L (K)	32.8	44.0	49.3
Imp. (K)	9.4	11.6	12.0
R (Total) (K)	60.1	131.3	152.5

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 VR is the maximum Live Load + Impact shear range in span.
 M_0 (Applied Moment) = $1.3[M_E + M_{S_E} + S_y(M_L + I)]$.
 M_u Full plastic moment capacity for compact, braced section is computed according to AASHTO 10.48.1 and 10.50.1.1.
 f_s (Overload) is the sum of the stresses due to $M_E + M_{S_E} + S_y(M_L + I)$.
 f_s (Total) is the sum of the stresses due to $1.3[M_E + M_{S_E} + S_y(M_L + I)]$.
 M_E - Moment due to dead loads on non-composite section.
 M_{S_E} - Moment due to dead loads on non-composite section.
 M_L - Moment due to live loads on non-composite or composite section.
 I - Live load impact.

DESIGNED *W. H. Johnson*
 CHECKED *Paul J. Johnson*
 DRAWN John F. Schneller Jr.
 CHECKED CHM
 EXAMINED *W. H. Johnson*
 PASSED *Ralph E. Johnson*
 APPROVED _____
 DIRECTOR OF HIGHWAYS

MARCH 12 1979

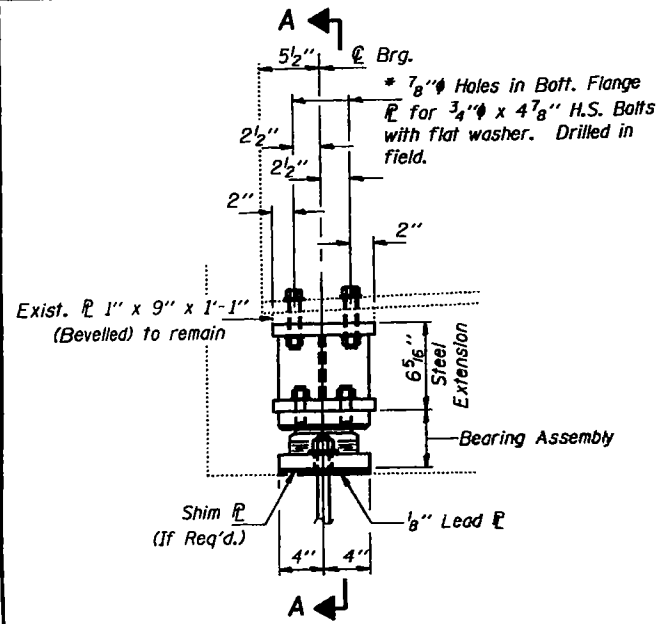
FOR INFORMATION ONLY

STRUCTURAL STEEL
 F.A. RT. 734 SEC. 77-1HVBD
 WINNEBAGO COUNTY
 STA. 223+09.28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

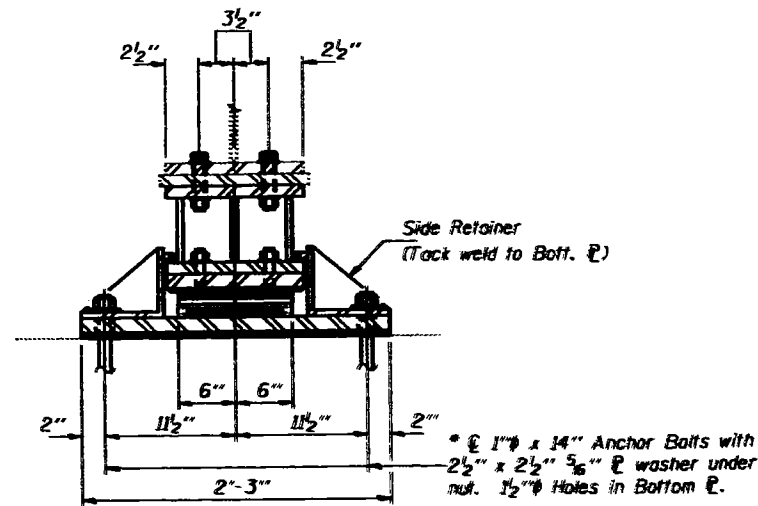
ROUTE NO.	SECTION	COUNTY	SPR	POST	SHEET NO. 16
F.A. 734	77-1HVBD	WINNEBAGO	126	96	24 SHEETS
FED. ROAD DIST. NO. 7		SHEET NO.		PROJECT NO.	

* Cost of drilling holes in bottom flanges in field is incidental to "Elastomeric Bearing Assembly Type II".



ELEVATION AT ABUT.

TYPE II TFE ELASTOMERIC EXP. BRG.

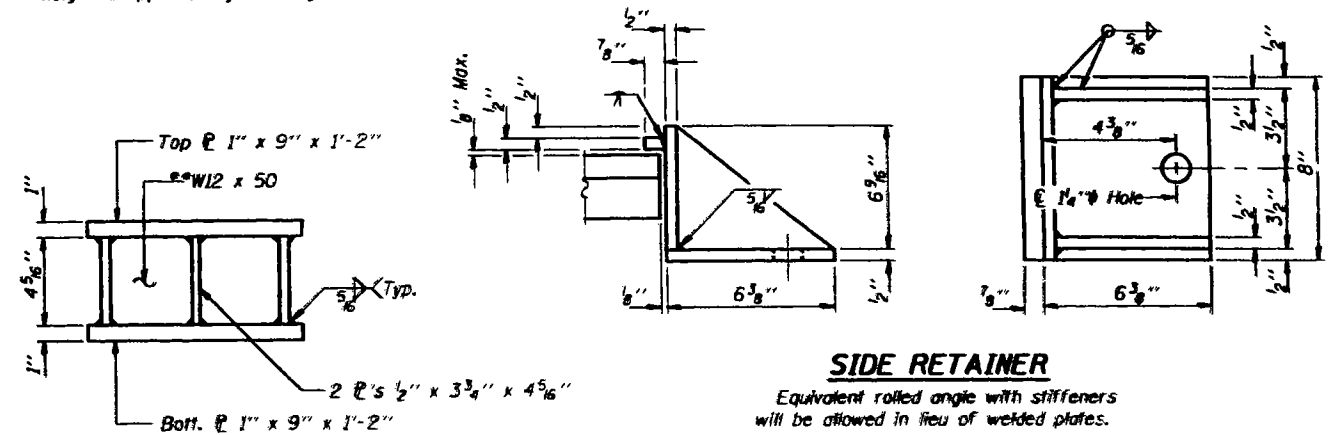


SECTION A-A

* See sheet #17 of 24 for Anchor Bolt installation.

Note: The 1/8\"/>

Bonding of 1/8\"/>

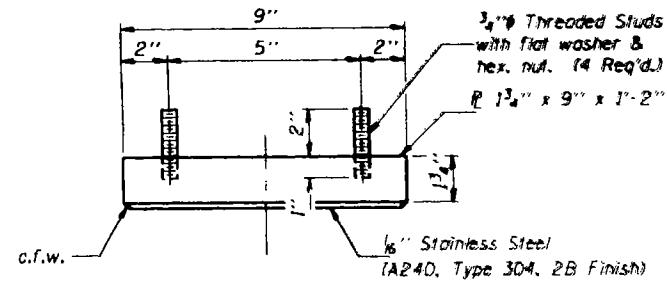


STEEL EXTENSION

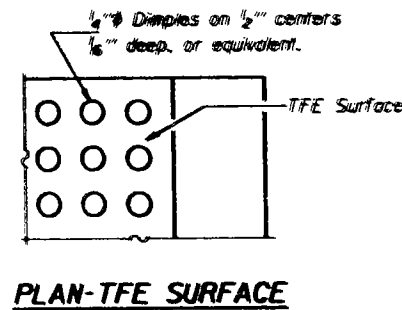
**Equivalent welded plates will be allowed in lieu of W12 x 50

SIDE RETAINER

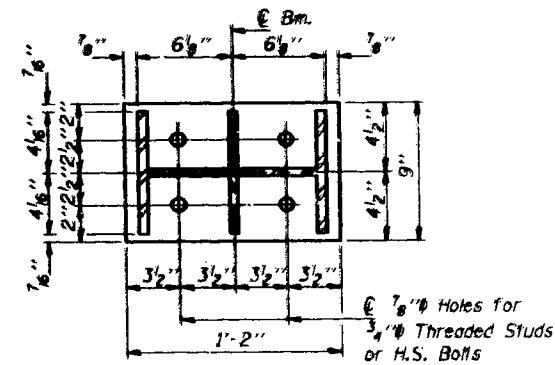
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



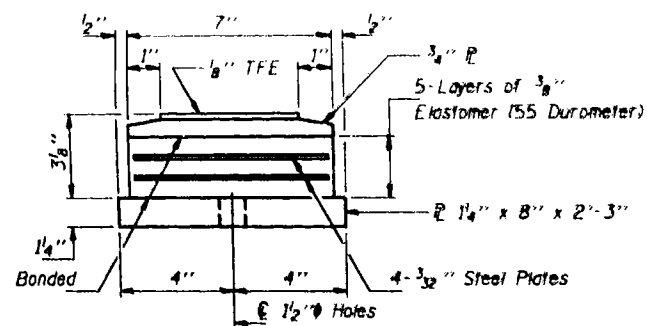
TOP BEARING ASSEMBLY



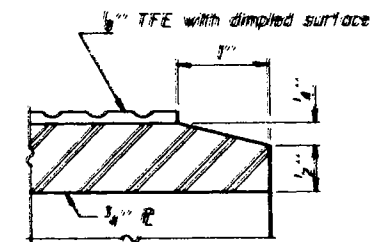
PLAN-TFE SURFACE



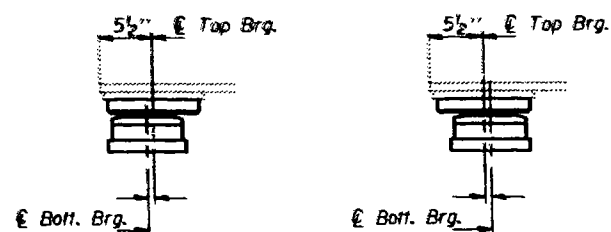
PLAN TOP & BOTTOM PLATE



BOTTOM BEARING ASSEMBLY



SECTION THRU TFE



BELOW 50°F. (Move bott. brg. away from fixed brg.)
ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING BOLSTER AT EXP. BRG.

D=1/8\"/>

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	24
Jack and Remove Existing Bearings	Each	24

BEARING DETAILS
F.A. RT. 734 SEC. 77-1HVBD
WINNEBAGO COUNTY
STA. 223+09.28

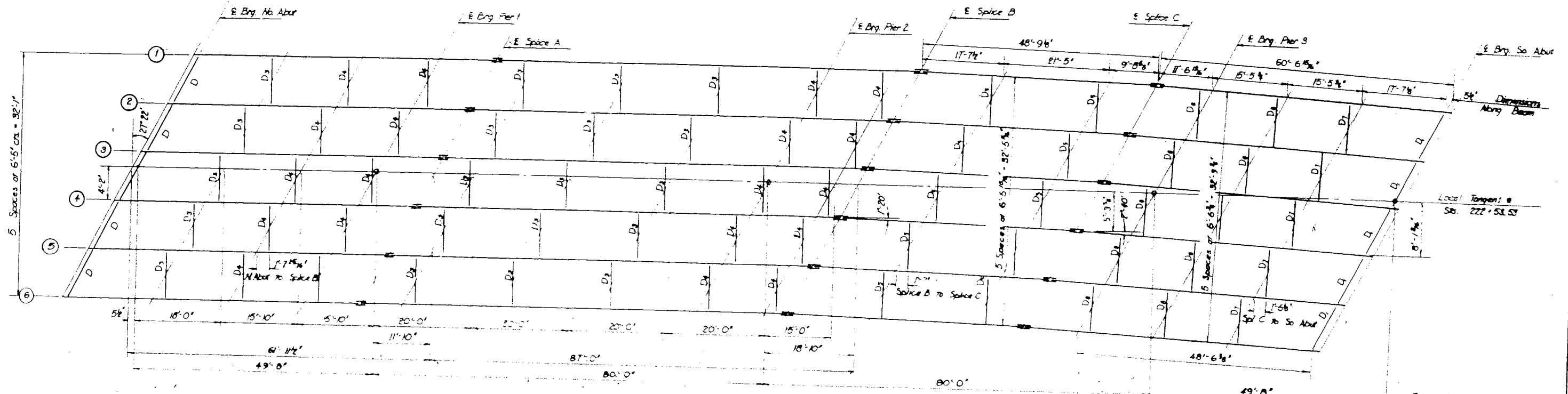
DESIGNED <i>Christoph H. Maly</i>	EXAMINED <i>Gregory J. Kasper</i>
CHECKED <i>Paul S. Johnson</i>	PASSED <i>Ralph E. Anderson</i>
DRAWN John F. Schneller Jr.	APPROVED _____
CHECKED <i>CHM</i>	DIRECTOR OF HIGHWAYS

I-2-E2 12-1-83

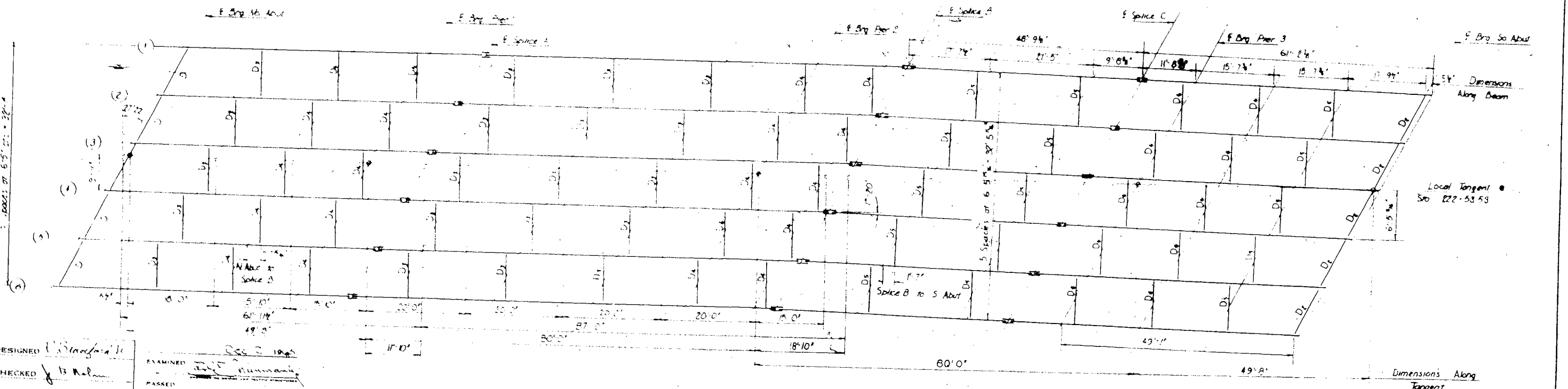
FOR INFORMATION ONLY

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

PROJECT NO.	SECTION	COUNTY	STATION	POST MILE	SHEET NO. 8
F.A. 2	77-110A	WINNEBAGO	45	14	19 SHEETS
DATE: 11-1-95					



FRAMING PLAN NO. BOUND STRUCTURE
All Beams 36 WF 150



FRAMING PLAN - SO. BOUND STRUCTURE
All Beams 36 WF 150

DESIGNED: R. Bradford Jr.
CHECKED: B. R. Rasmussen
DRAWN: R. Bradford Jr.
CHECKED: W. A.
EXAMINED: R. Bradford Jr.
PASSED: R. Bradford Jr.
APPROVED: R. Bradford Jr.

FOR INFORMATION ONLY

FRAMING PLAN
WINNEBAGO COUNTY
FA RTE 2 SEC. 77-110A/B
STA. 223-07.95