

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 553 (IL 72)
SECTION: 119(VB-NRS)R-BP
TYPE of IMPROVEMENT: BRIDGE PAINTING
OGLE COUNTY

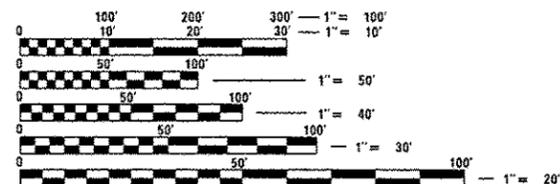
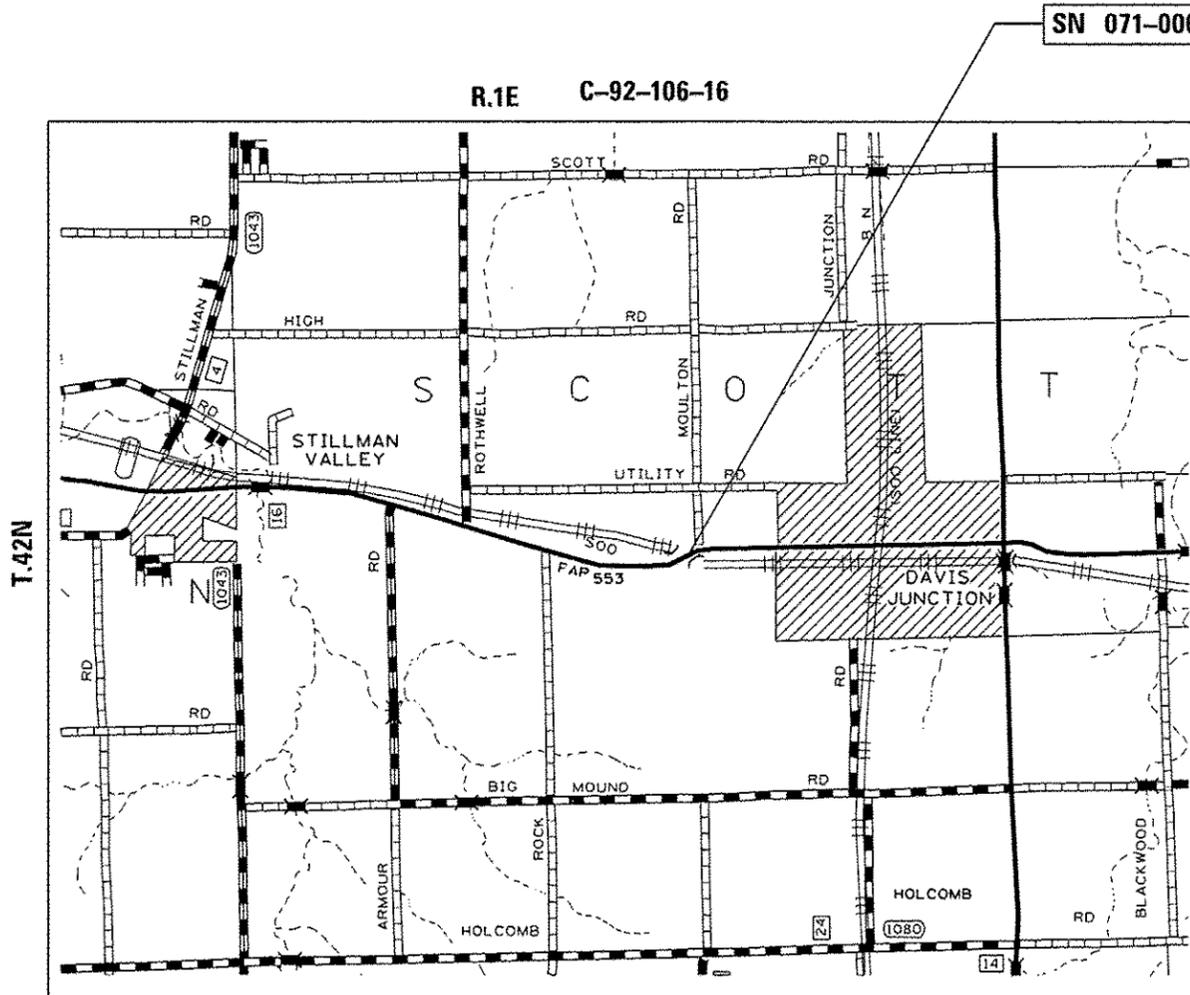
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119(VB-NRS)R-BP	OGLE	18	1
ILLINOIS CONTRACT NO. 64L68				

D-92-089-16



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

OGLE COUNTY - SCOTT TOWNSHIP - SECTION 21



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. 64L68

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Oct. 12 2016*
K. Marshall
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 9 2016
M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 9 2016
Chris Esman
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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STATE STANDARDS

000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
701006 - 05	OFF ROAD OPERATIONS, 2L, 2W, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011 - 04	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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 - 16	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901 - 06	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)

FILE NAME *	USER NAME = dosedd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Draws\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-ah-001	DRAWN - _____	REVISIONS - _____	553			119VB-NRSJR-BP	OGLE	18	2		
Default	PLOT SCALE * 40.0000' / in.	CHECKED - _____	REVISIONS - _____			CONTRACT NO. 64L68					
	PLOT DATE * Sep-06-2016 07:53:00 AM	DATE - _____	REVISIONS - _____			ILLINOIS FED. AID PROJECT					
						SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____

GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

ELECTRIC:

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

GAS:

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

TELEPHONE:

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

COMMUNICATIONS:

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

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.

Hazards behind Temporary Concrete Barrier Wall
No materials, equipment, vehicles or other hazards shall be within 3'-6" of the temporary concrete barrier wall, measured from the closest point of the barrier wall perpendicular to the hazard. Equipment that is actively working within 3'-6" of the barrier wall may be allowed for a short duration, if approved by the engineer, required for the work activity, and there is not another method to complete the work.

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

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

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

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

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

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

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

FILE NAME * D:\BR\Draw\0916468 Partial Cleaning	USER NAME * dssdd and Printing SH 071-0057\CA00\6468-shc-ov	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE. 553	SECTION 119IVB-NRSJR-BP	COUNTY OGLE	TOTAL SHEETS 18	SHEET NO. 3
PLOT SCALE * 48.0000 "/ in.	CHECKED -	REVISED -	CONTRACT NO. 64L68							
PLOT DATE * Sep-96-2016 07:53:36 AM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
Default				SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____						

SUMMARY OF QUANTITIES

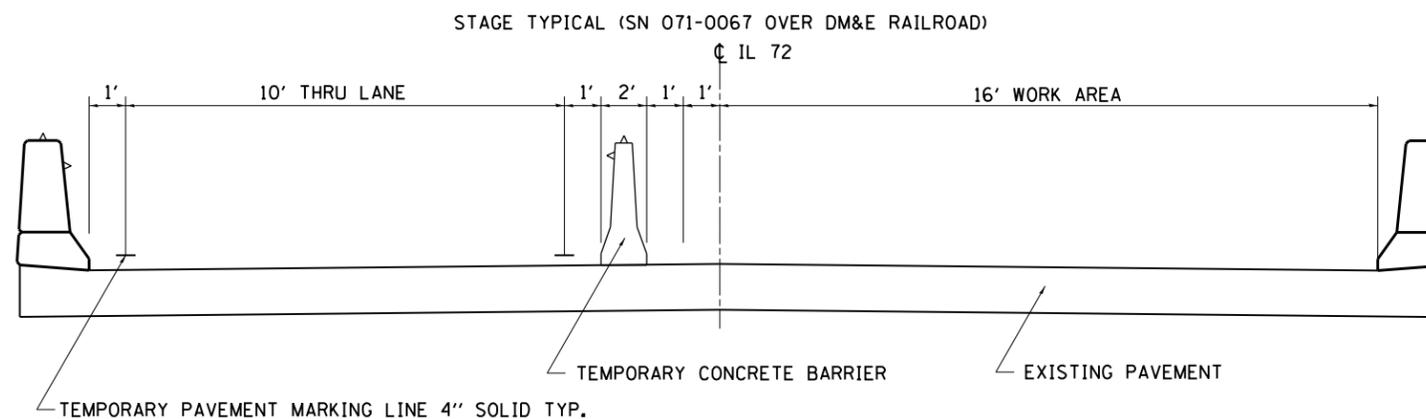
**0014
100%
State Funds**

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
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
70300220	TEMPORARY PAVEMENT MARKING LINE, 4"	FOOT	1094
70300280	TEMPORARY PAVEMENT MARKING LINE, 24"	FOOT	24
70400100	TEMPORARY CONCRETE BARRIER	FOOT	494.13
70600241	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
78007110	PERMANENT PAVEMENT MARKING - LINE 4"	FOOT	778
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	624
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

14

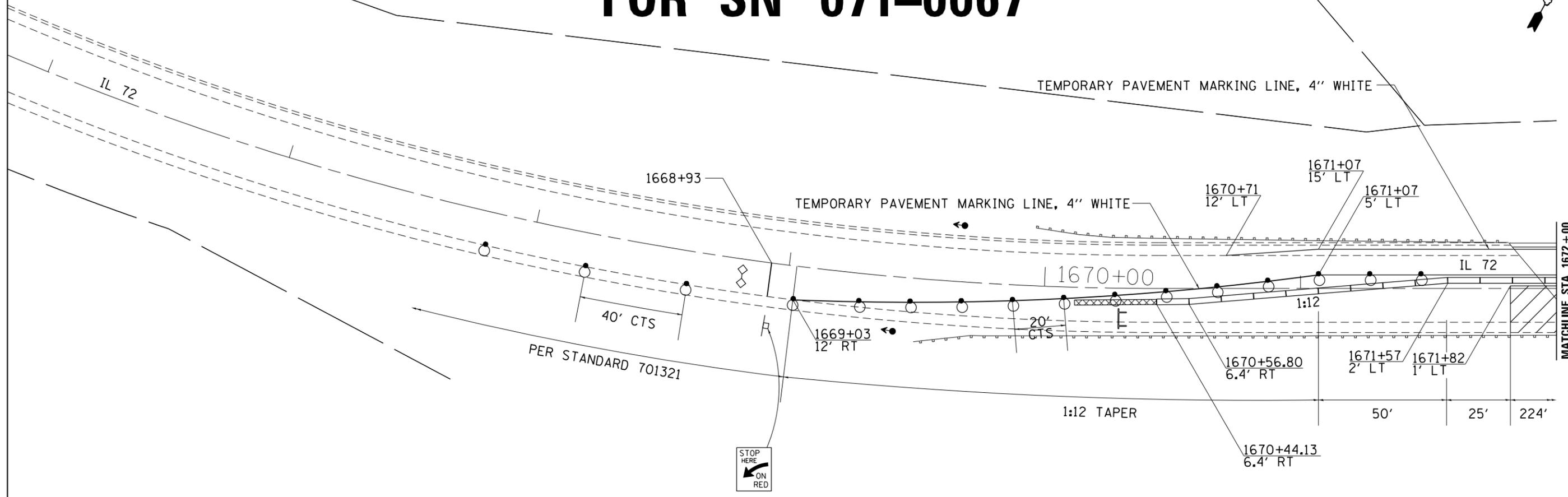
FILE NAME *	USER NAME * dswadd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 553	SECTION 119VB-NRSR-BP	COUNTY OCLE	TOTAL SHEETS 18	SHEET NO. 4
D:\BR\Draws\Ogle\64L68 Partial Cleaning	and Painting SN 071-0067\CADD\64L68-shr-dsw	DRAWN - _____	REVISED - _____							
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	PLOT DATE * Sep-06-2016 07:53:42 AM	DATE - _____	REVISED - _____							
ILLINOIS FED. AID PROJECT										

STAGING TYPICAL



FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING TYPICAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-sh-t-cover	DRAWN - _____	REVISED - _____	553			119(VB-NRS)R-BP	OGLE	18	5	
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SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____										

TRAFFIC CONTROL PLAN FOR SN 071-0067



R10-6A-2430

NOTES

See Traffic Control and Protection Standard 701321 for details not shown.

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

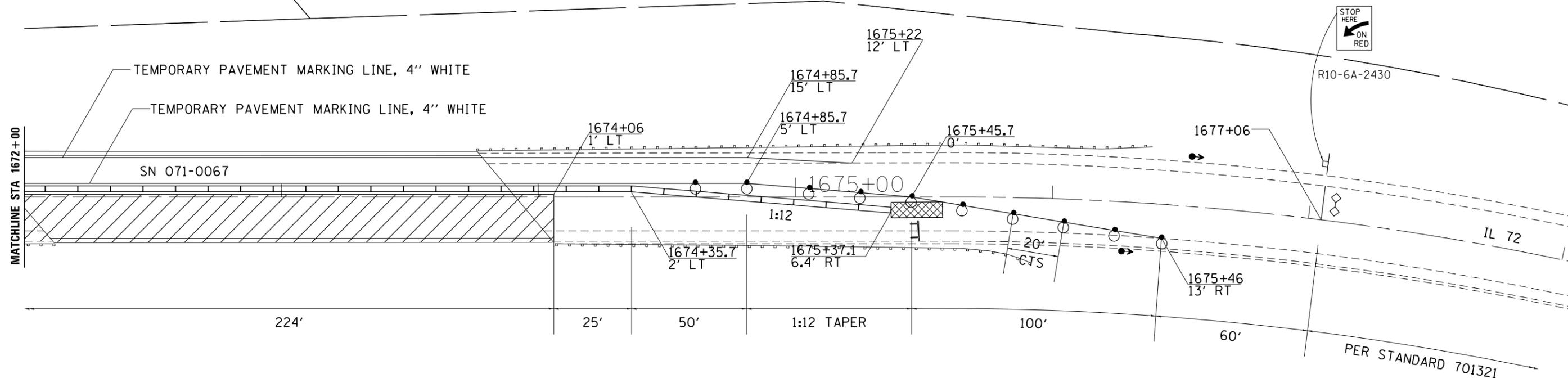
Barrier wall offsets are to the construction side of the barrier wall.

SYMBOLS

- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Work area
- Sign
- Type III barricade
- Traffic signal
- Detector loops
- Impact attenuator

FILE NAME =	USER NAME = dosddd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL PLAN FOR SN 071-0067	F.A.P. RTE. 553	SECTION 119(VB-NRS)R-BP	COUNTY OGLE	TOTAL SHEETS 18	SHEET NO. 6		
Q:\BR\Draw\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-shit-cover	DRAWN - _____	CHECKED - _____	REVISED - _____			SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 64L68
Default	PLOT SCALE = 40.0000' / in.	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT						
	PLOT DATE = Sep-06-2016 07:53:53 AM	DATE - _____	REVISED - _____									

TRAFFIC CONTROL PLAN FOR SN 071-0067



NOTES

See Traffic Control and Protection Standard 701321 for details not shown.

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

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All dimensions are in inches (millimeters) unless otherwise shown.

Barrier wall offsets are to the construction side of the barrier wall.

SYMBOLS

-  Drum with steady burning bi-directional light
-  Temporary concrete barrier
-  Work area
-  Sign
-  Type III barricade
-  Traffic signal
-  Detector loops
-  Impact attenuator

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

**TRAFFIC CONTROL PLAN
FOR SN 071-0067**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
553	119(VB-NRS)R-BP	OGLE	18	7
CONTRACT NO.			64L68	
ILLINOIS FED. AID PROJECT				

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 24 x 24
 4 CAPITAL LETTERS - BLACK
 1/2 BORDER - BLACK
 WHITE REFLECTIVE - TYPE AP
 HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

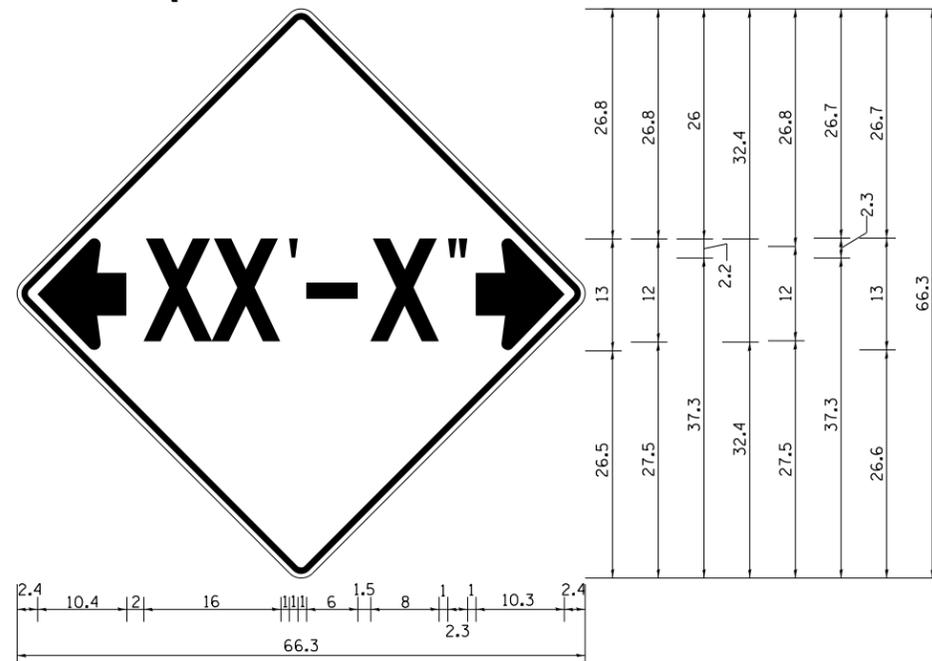
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

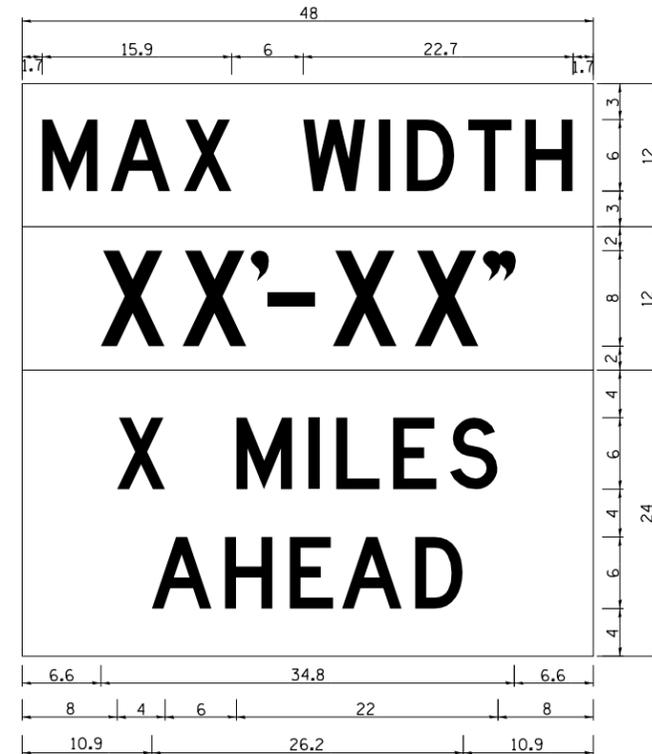
REVISED - 10-11-11

STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

 No border, Black on Orange;
 [XX'-XX'''] D;

 No border, Black on White;
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

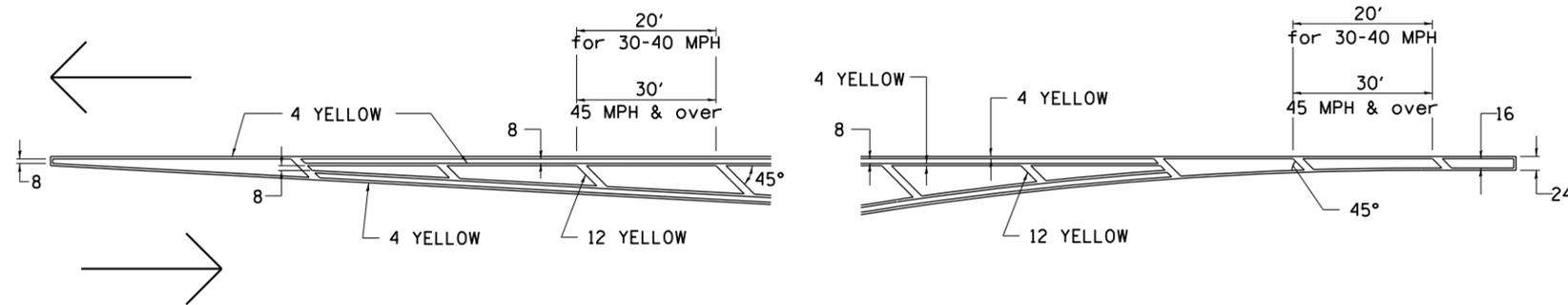
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -				553	119(VB-NRS)R-BP	OGLE	18	8
REVISED -				CONTRACT NO. 64L68				
REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: 1/8" = 1'-0" SHEET NO. OF SHEETS STA. TO STA.								

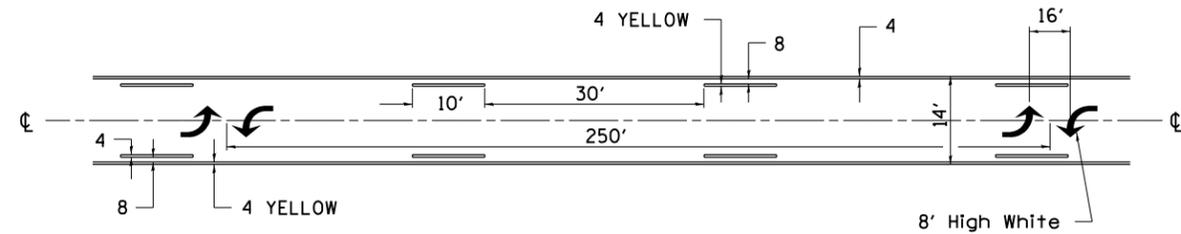
INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

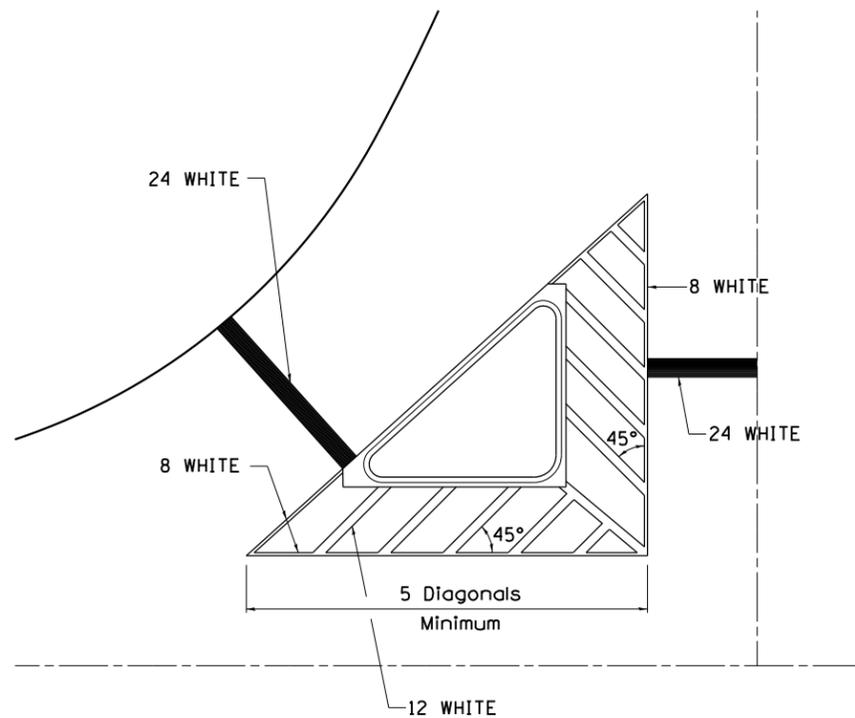


MEDIAN PAVEMENT MARKING



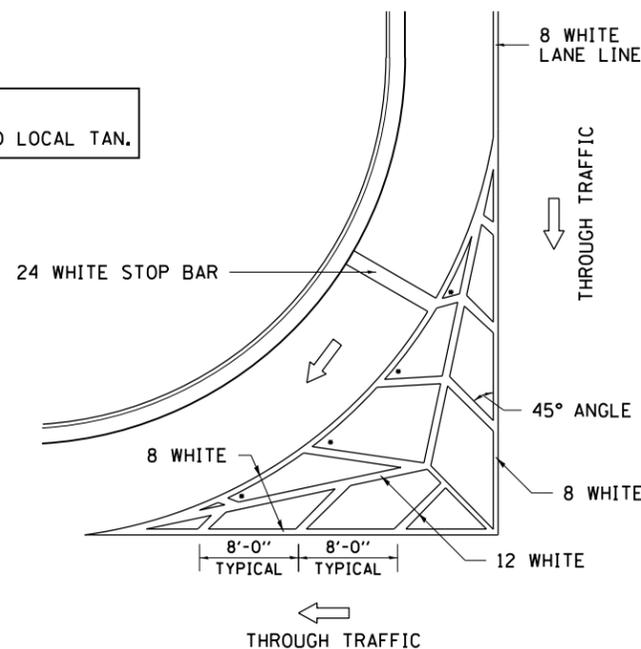
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



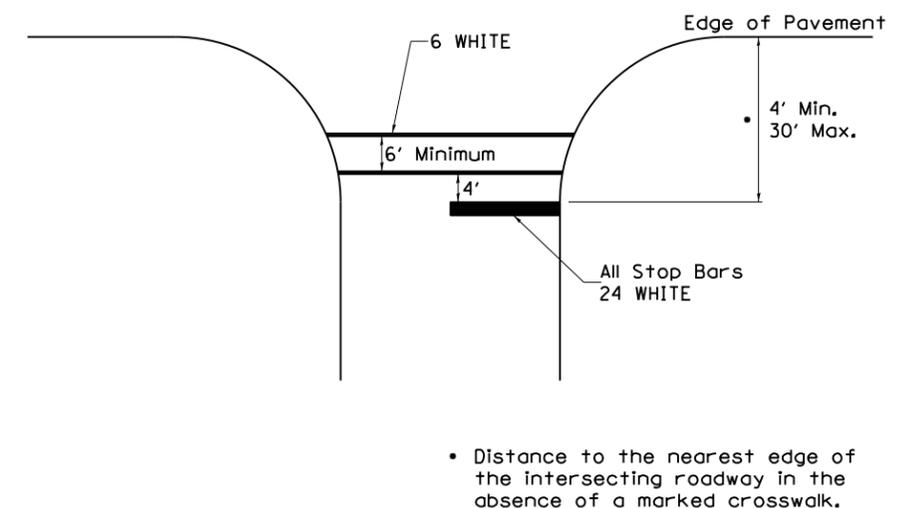
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

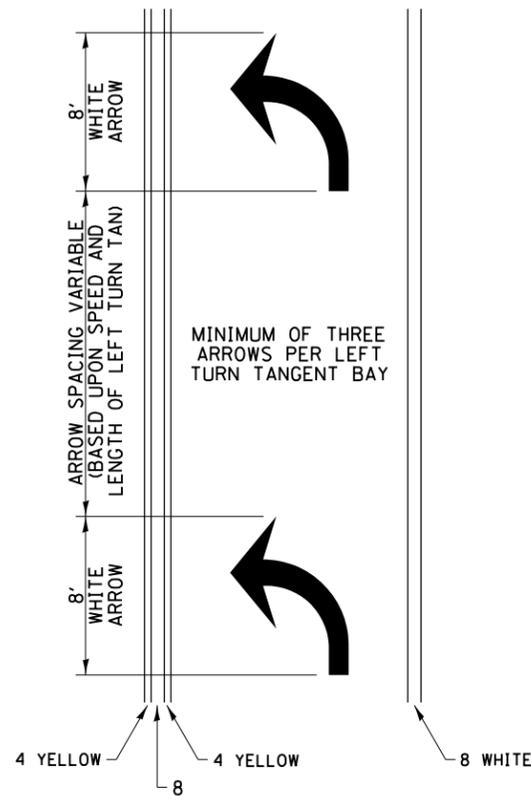


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draws\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-shd-cover		DRAWN -	REVISED - 3-05-12		SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____ TO STA. _____	553	119(VB-NRS)R-BP	OGLE	18	9
PLOT SCALE = 48.0000' / in.		CHECKED -	REVISED -					CONTRACT NO. 64L68				
PLOT DATE = Sep-06-2016 07:54:12 AM		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL PAVEMENT MARKINGS

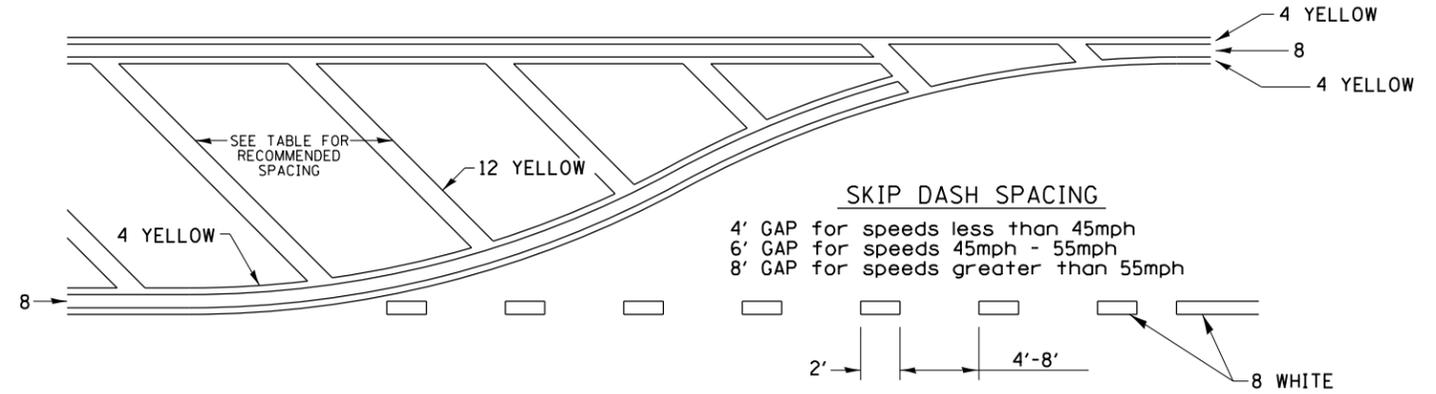
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

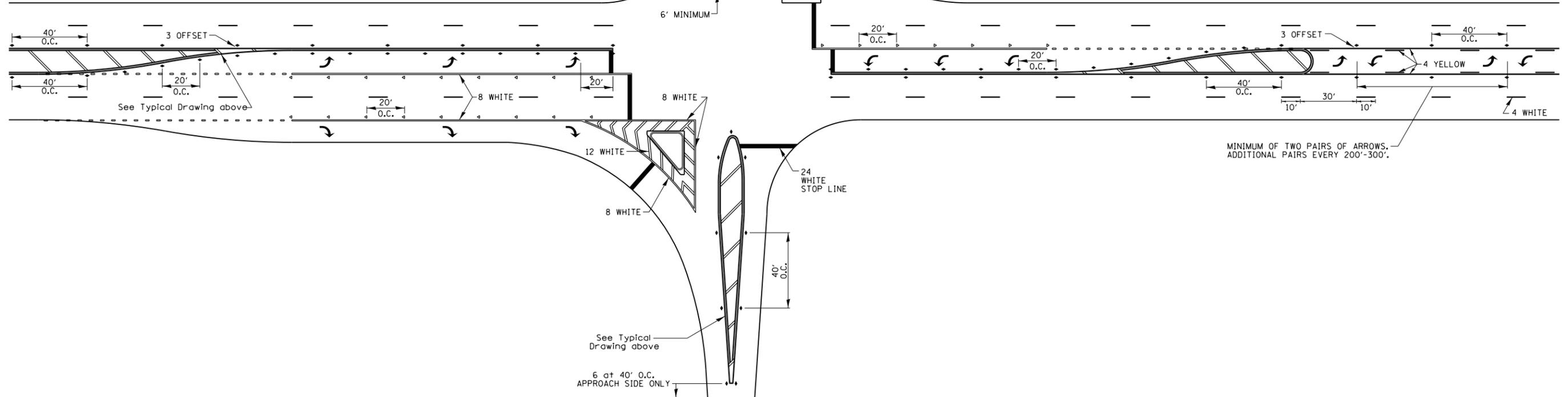
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

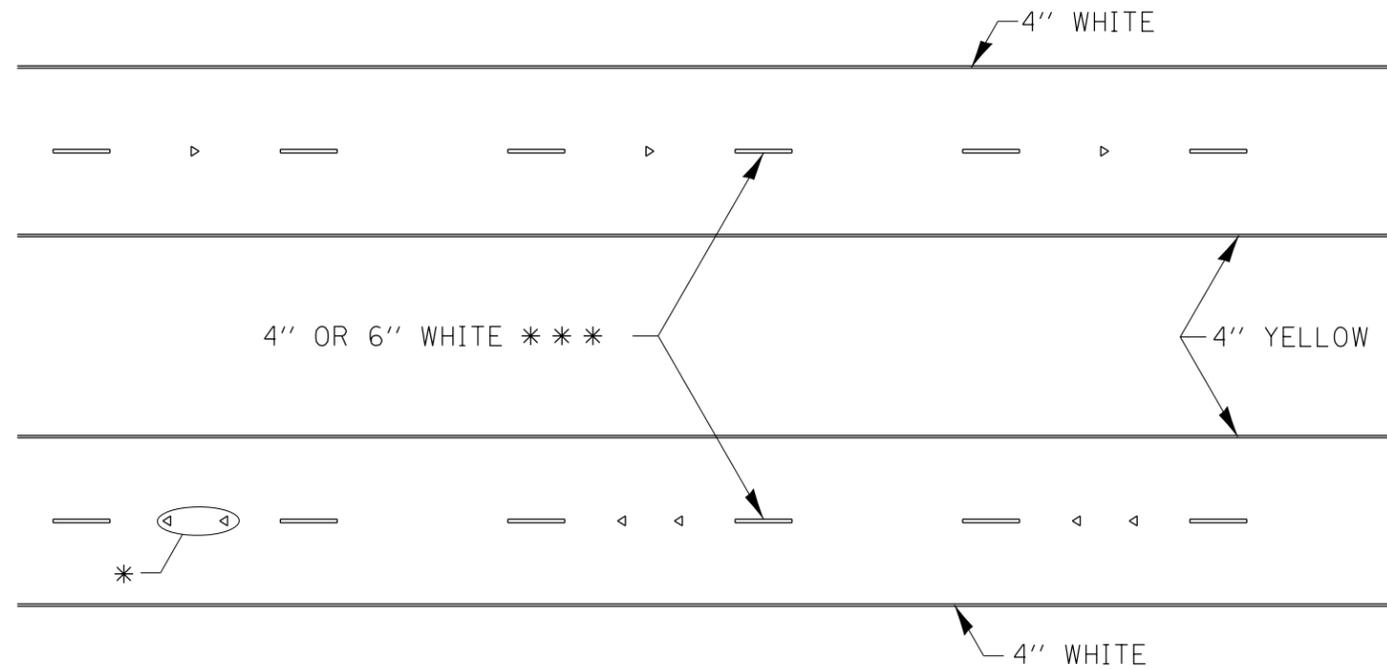
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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.



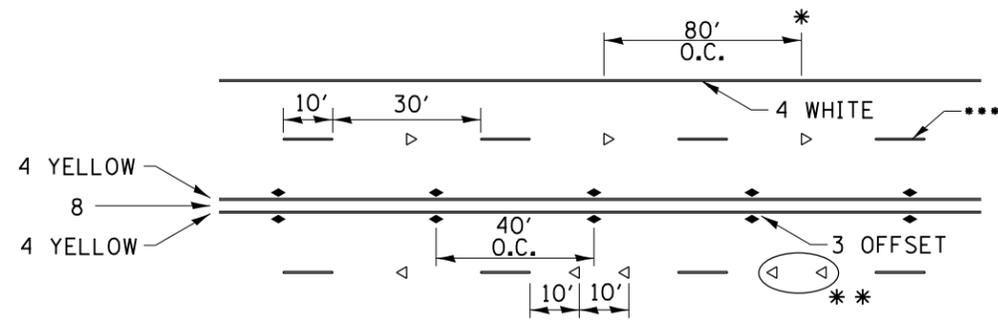
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draw\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-shr-cover	DRAWN -	REVISED - 3-05-12			553	119(VB-NRS)R-BP	OGLE	18	10			
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 64L68							
PLOT DATE = Sep-06-2016 07:54:19 AM	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL PAVEMENT MARKINGS



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

MULTI-LANE / DIVIDED



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

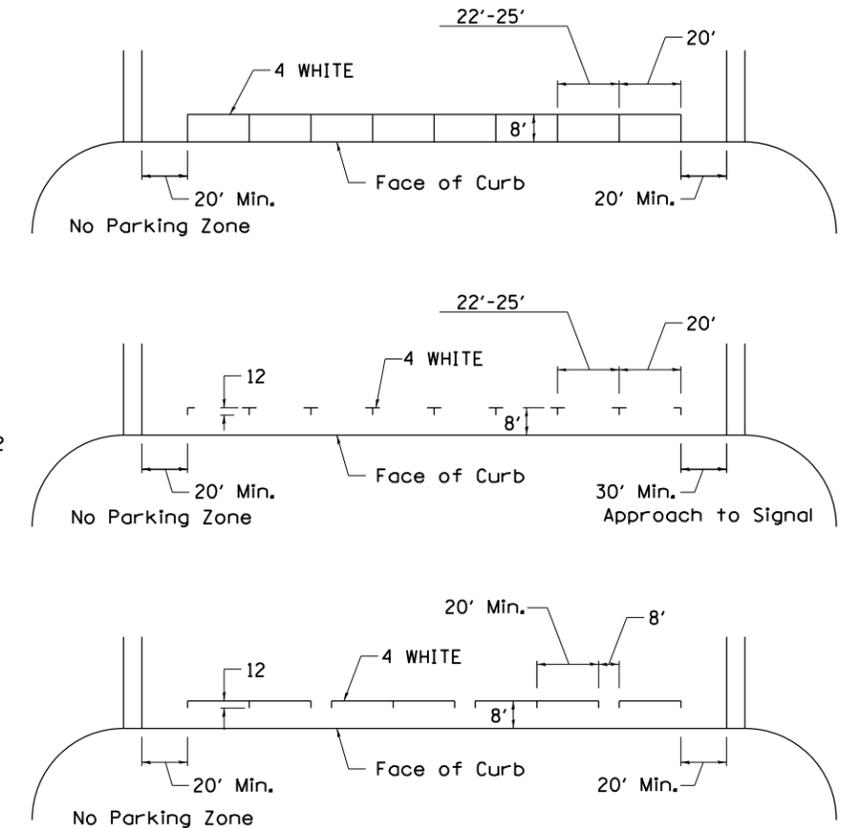
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

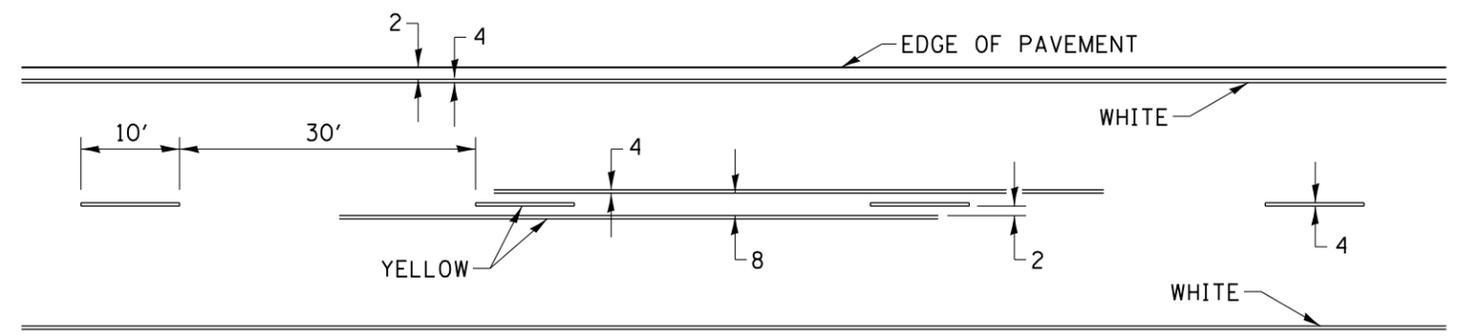
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

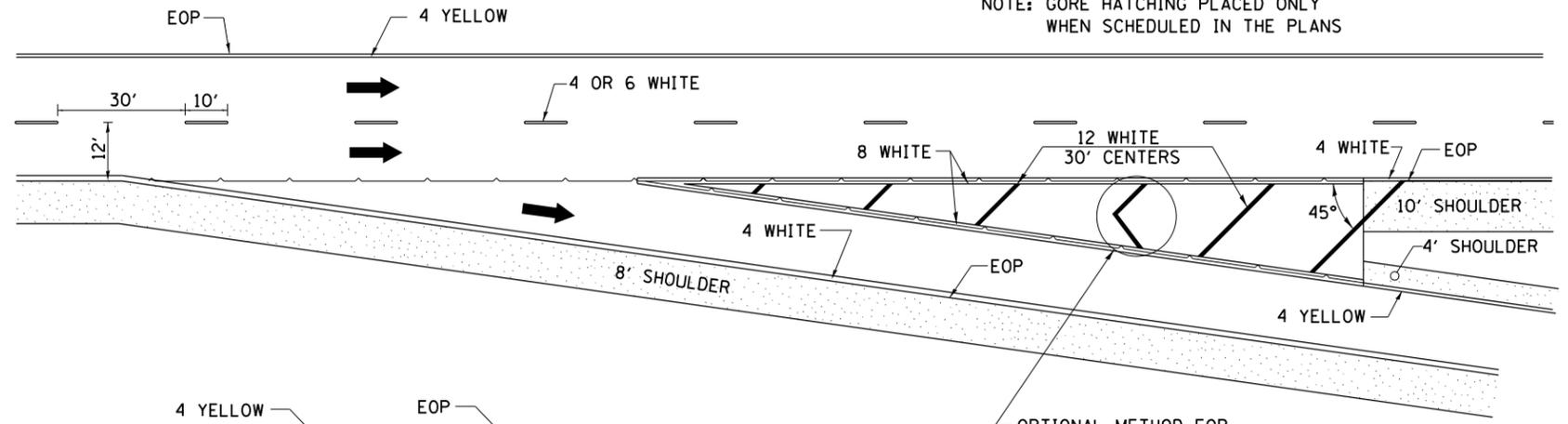
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\BR\Draw\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-shr-cover	DRAWN -	REVISED - 8-27-13	553					119(VB-NRS)R-BP	OGLE	18	11	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 11-28-12	CONTRACT NO. 64L68									
PLOT DATE = Sep-06-2016 07:54:26 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.

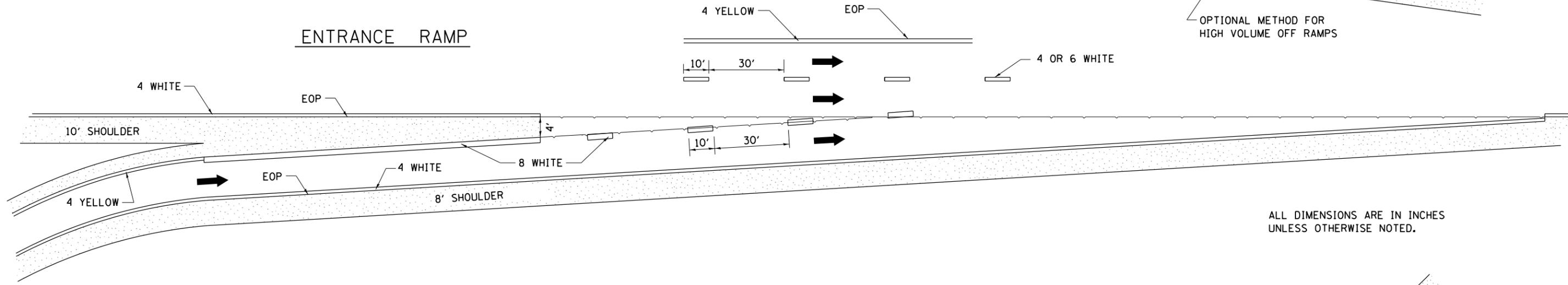
EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS



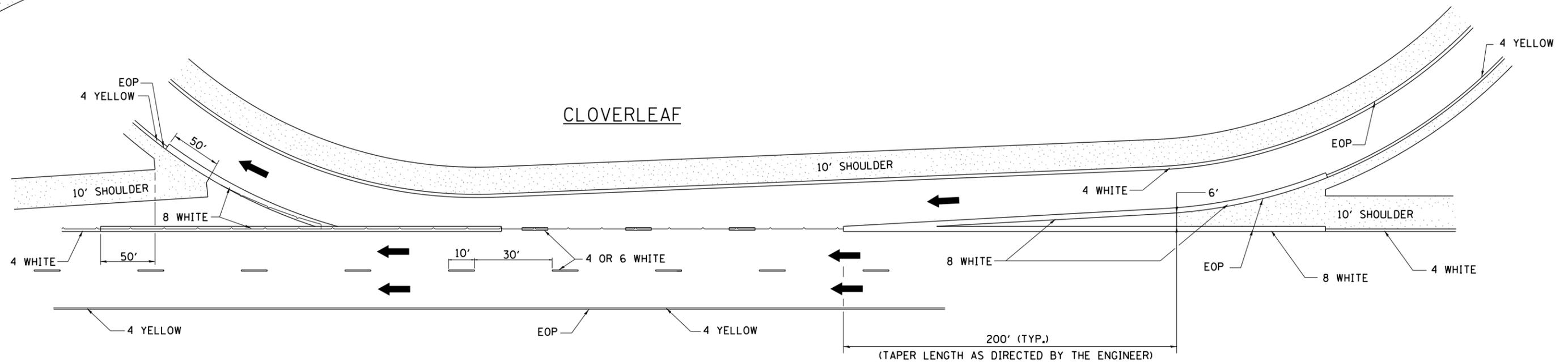
OPTIONAL METHOD FOR HIGH VOLUME OFF RAMP

ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 8-27-13
D:\BR\Draw\Ogle\64L68 Partial Cleaning and Painting SN 071-0067\CADD\64L68-shr-cover		DRAWN -	REVISED - 10-18-11
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Sep-06-2016 07:54:33 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.
553	119(VB-NRS)R-BP	OGLE	18	12
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L68	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 SHEETS 16 A
S. B. I. F. A. 553	I19(VB-NRS)R	OGLE	28	14	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

GENERAL NOTES:

DESIGN SPECIFICATIONS:

A.A.S.H.T.O. 1977 Standard Specifications for Highway Bridges, and 1978, 1979 & 1980 Interims
Standard Specifications for Road and Bridge Construction State of Illinois dated Oct. 1, 1979

DESIGN CRITERIA:

Load Factor Design (For Superstructure only)
Live Load HS 20-44
Allow 25 psf for future wearing surface
All spans are composite in positive moment area.

DESIGN STRESSES:

Reinforced Concrete
 $f'_c = 3500$ psi

REINFORCEMENT:

$f_y = 60,000$ psi

STRUCTURAL STEEL:

$f_y = 50,000$ psi (M222 Steel)

CONSTRUCTION:

See Proposal for Boring Data
Fasteners shall be high strength bolts AASHTO M 164, Type 3.
Bolts $\frac{3}{4}$ " ϕ , open holes $\frac{13}{16}$ " ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 150,265 Lbs.
All structural steel shall be AASHTO M 222 unpainted except as noted below.
All structural steel for a distance of three times the depth of the beams each way from deck joints shall be cleaned and given one coat of the basic lead silico chromate primer and maroon field coat. Both coats to be applied in the shop with spot painting only in the field.

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

Anchor bolts shall be set before bolting diaphragms over supports.
Slope wall shall be reinforced with welded wire fabric, 6"x6"-W4.0x W4.0, weighing 58 lbs. per 100 sq. ft.

The contractor shall drive (1) One Concrete test pile in a permanent location at each abutment as directed by the Engineer before ordering the remainder of piles.

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

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

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These Components are the wide flange beams and all splice plate materials of the steel wide flange beams.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

TRAFFIC:

All barricades, signs and other traffic control devices and their placement installed for the purpose of temporarily maintaining traffic during construction shall be in full conformance with the Illinois State Manual on Uniform Traffic Control Devices, unless otherwise noted.

The Contractor shall procure, install and remove all temporary pavement markings as per the traffic phasing shown on the plans or as directed by the Engineer.

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB.	TOTAL
Removal of Existing Structure	Each			1
Structure Excavation	Cu. Yd.	—	358.4	358.4
Floor Drains	Each	8	—	8
Protective Coat	Sq. Yd.	—	28	28
Class X Concrete	Cu. Yd.	202.5	236.3	438.8
Structural Steel	L. Sum	1	—	1
Stud Shear Connectors	Each	2,994	—	2,994
Reinforcement Bars	Lbs.	21,570	27,910	49,480
Reinforcement Bars (Epoxy Coated)	Lbs.	32,910	—	32,910
Concrete Piles	Lin. Ft.	—	704	704
Test Piles Concrete	Each	—	2	2
Name Plates	Each	1	—	1
Slope Wall 4 inches	Sq. Yd.	—	757.3	757.3
Temporary Bridge Rail	Lin. Ft.	193.3	—	193.3
Neoprene Expansion Joint 2"	Lin. Ft.	87.3	—	87.3

DESIGNED	L.M.
CHECKED	D.W.
DRAWN	K.C.
CHECKED	L.M.

REVISIONS	
NAME	DATE

GENERAL NOTES AND QUANTITIES
F.A. RTE. 553 OVER C.M. ST. P&PACIFIC R.R.
F.A. RTE. 553 (ILL. 72) SECTION I19(VB-NRS)R
OGLE COUNTY
STA. 410+68.20
SCALE: VERT. NO SCALE
HORIZ. NO SCALE
DATE 3-1-1982

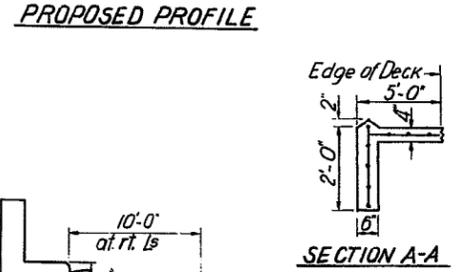
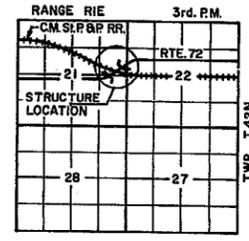
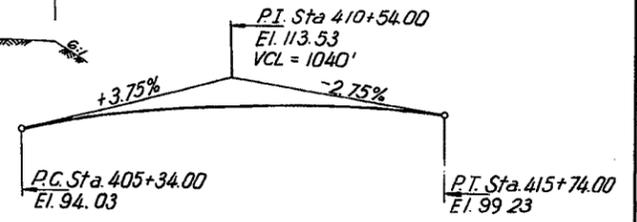
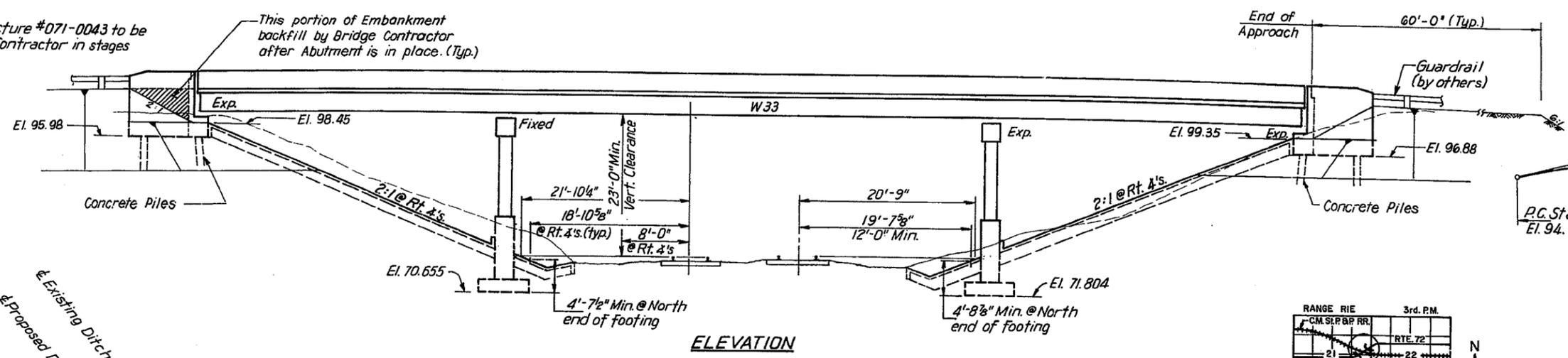
Bench Mark
Chiseled square on the Southeast corner of the easterly head wall (Wing Wall) of the Abutment.
Assumed Elevation=100.00
Project Elev 100.00=834.70
U.S.G.S. Elev.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

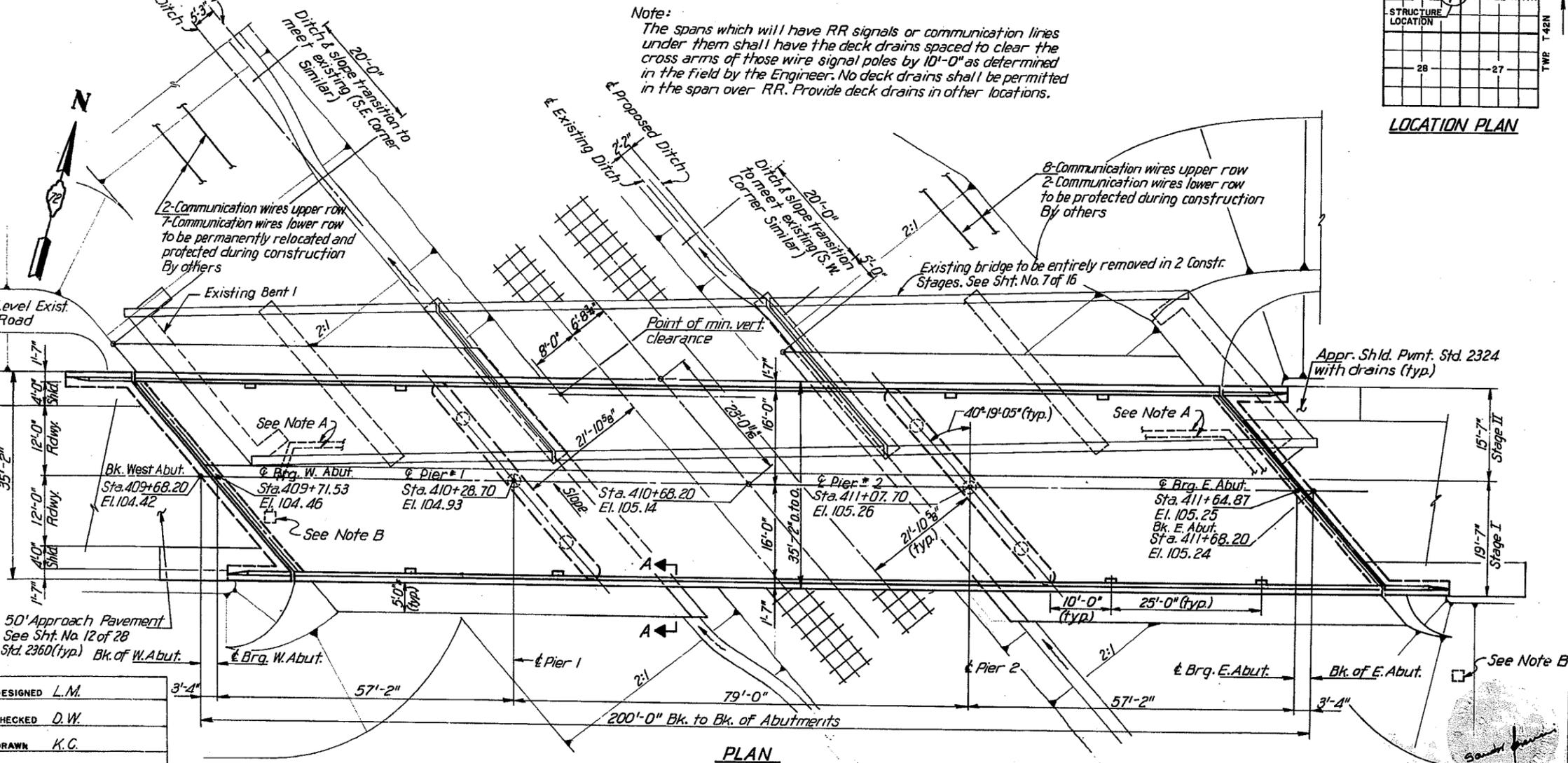
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I. 553	119(VB-NRS)R	OGLE	28	13	SHEETS 15A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Existing structure #071-0043 to be removed by Contractor in stages
No Salvage

This portion of Embankment backfill by Bridge Contractor after Abutment is in place. (Typ.)



Note:
The spans which will have RR signals or communication lines under them shall have the deck drains spaced to clear the cross arms of those wire signal poles by 10'-0" as determined in the field by the Engineer. No deck drains shall be permitted in the span over RR. Provide deck drains in other locations.



STATION 410+68.20
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 553 SEC. 119(VB-NRS)R
F.A. PROJ. BR. F-553(7)
LOADING 4520
* STR. NO.

NAME PLATE
See Standard 2113
* Str. No. to be supplied by the Dist.

Note A:
Existing 2-4" Conduit pipes for telephone cables to be relocated by others.

Note B:
Existing telephone cable box to be relocated by others.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Signature of Engineer

REVISIONS	
NAME	DATE

GENERAL PLAN
F.A. RTE. 553 OVER C.M. ST. P. & PACIFIC R.R.
F.A. RTE. 553 (ILL. 72) SECTION 119(VB-NRS)R
OGLE COUNTY
STA. 410+68.20

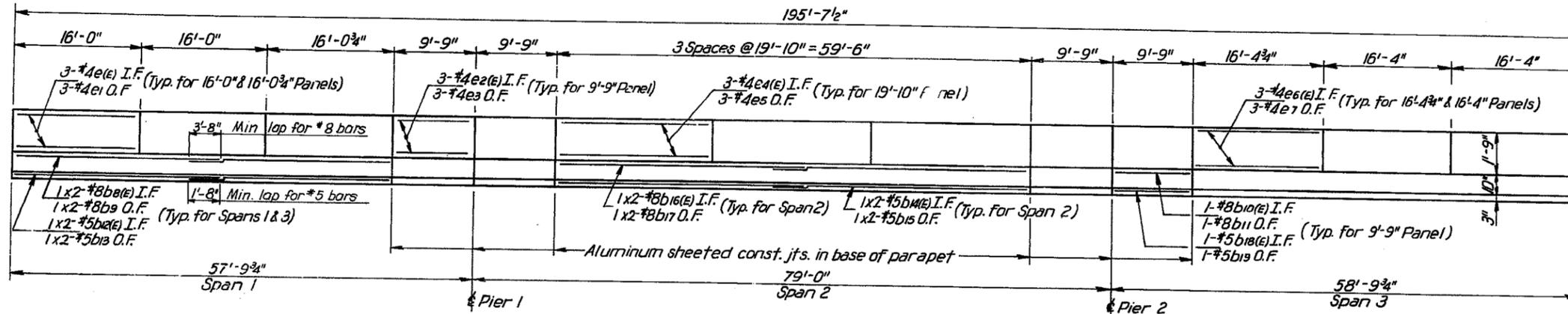
DESIGNED	L.M.
CHECKED	D.W.
DRAWN	K.C.
CHECKED	L.M.

FOR INFORMATION ONLY

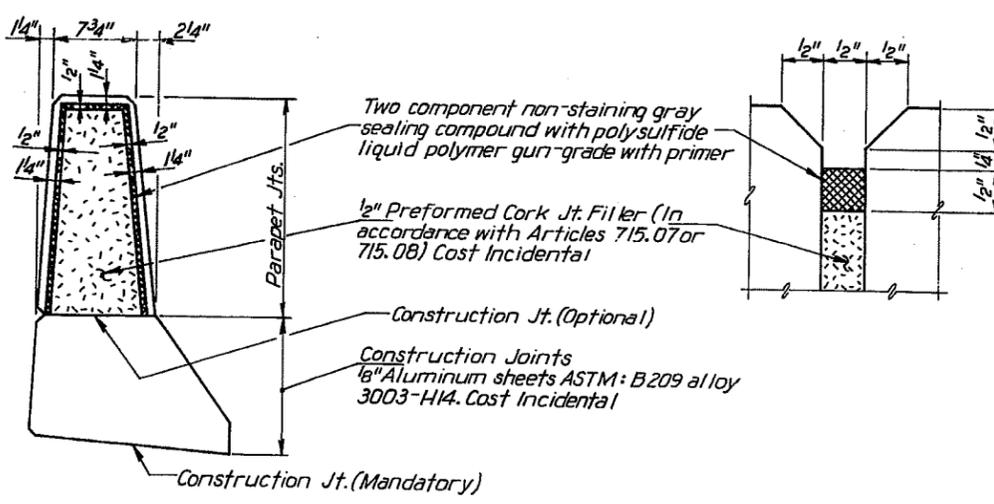
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

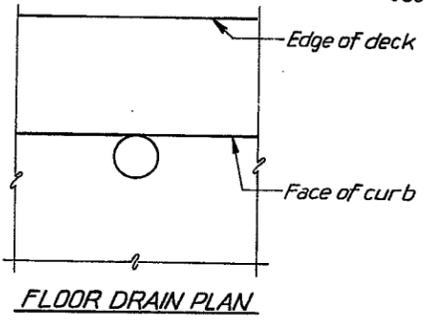
SHEET NO. 6
SHEETS 16 A



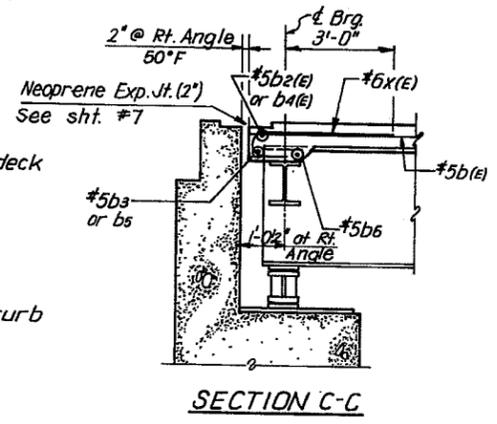
INSIDE ELEVATION OF PARAPET



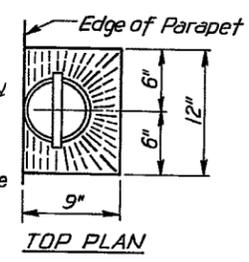
PARAPET JOINT DETAILS



FLOOR DRAIN PLAN

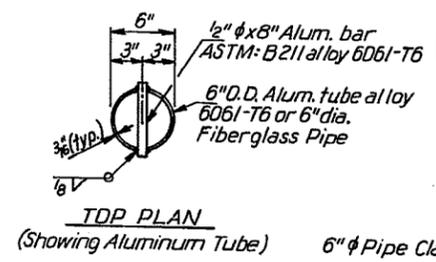
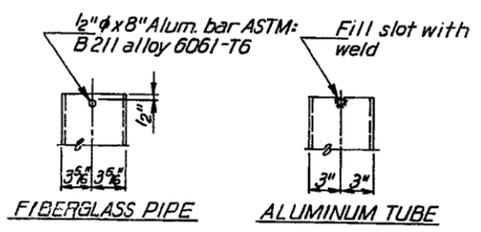


SECTION C-C

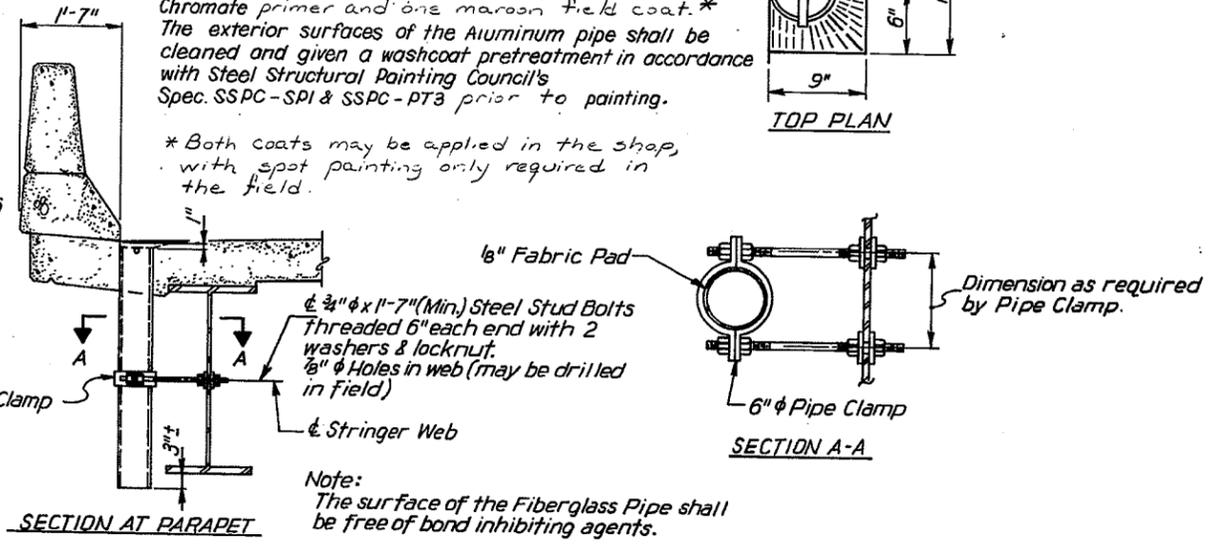


TOP PLAN

Note:
Fiberglass pipe shall conform to ASTM D 2996, Designation Code RTRP-11AE-5112. Pipes with Class C or F liner are acceptable.
The exterior surfaces of the Floor Drain shall be painted with one coat of the Basic Lead Silico Chromate primer and one maroon field coat. *
The exterior surfaces of the Aluminum pipe shall be cleaned and given a washcoat pretreatment in accordance with Steel Structural Painting Council's Spec. SSPC-SPI & SSPC-PTA prior to painting.
* Both coats may be applied in the shop, with spot painting only required in the field.



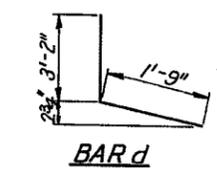
TOP PLAN (Showing Aluminum Tube)



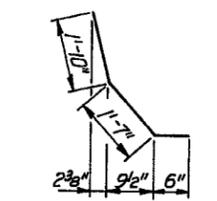
SECTION AT PARAPET

FLOOR DRAIN DETAILS

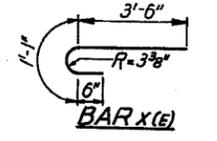
Note:
The surface of the Fiberglass Pipe shall be free of bond inhibiting agents.



BAR d



BAR d1(e)



BAR x(e)

BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a(e)	358	#5	21'-3"	—
a1(e)	30	#5	19'-3"	—
a2	252	#5	20'-9"	—
a3	21	#5	19'-3"	—
a4(e)	365	#5	15'-1"	—
a5(e)	24	#5	14'-5"	—
a6	258	#5	14'-9"	—
a7	16	#5	14'-5"	—
a8(e)	384	#6	4'-0"	—
b(e)	252	#5	29'-5"	—
b1	252	#5	29'-5"	—
b2(e)	2	#5	27'-6"	—
b3	2	#5	27'-6"	—
b4(e)	2	#5	19'-9"	—
b5	2	#5	19'-9"	—
b6	8	#5	9'-6"	—
b7(e)	70	#6	36'-0"	—
b8(e)	8	#6	26'-1"	—
b9	8	#6	26'-1"	—
b10(e)	8	#6	9'-6"	—
b11	8	#6	9'-6"	—
b12(e)	8	#5	25'-2"	—
b13	8	#5	25'-2"	—
b14(e)	4	#5	30'-7"	—
b15	4	#5	30'-7"	—
b16(e)	4	#6	31'-7"	—
b17	4	#6	31'-7"	—
b18(e)	8	#5	9'-6"	—
b19	8	#5	9'-6"	—
d	392	#4	4'-11"	L
d1(e)	392	#5	3'-11"	L
e(e)	18	#4	15'-8"	—
e1	18	#4	15'-8"	—
e2(e)	24	#4	9'-5"	—
e3	24	#4	9'-5"	—
e4(e)	18	#4	19'-6"	—
e5	18	#4	19'-6"	—
e6(e)	18	#4	16'-0"	—
e7	18	#4	16'-0"	—
x(e)	60	#6	5'-1"	C

Class X Concrete	Cu. Yds.	202.5
Epoxy Coated Reinf. Bars	Lbs.	32,910
Reinforcement Bars	Lbs.	21,570
Floor Drains	Each	8

REVISIONS	
NAME	DATE

DECK DETAILS I
F.A. RTE. 553 OVER C.M.ST. P8 PACIFIC R.R.
F.A. RTE. 553 (ILL. 72) SECTION I19(VB-NRS)R
OGLE COUNTY
STA. 410+68.20

SCALE: VERT. NO SCALE
HORIZ. NO SCALE

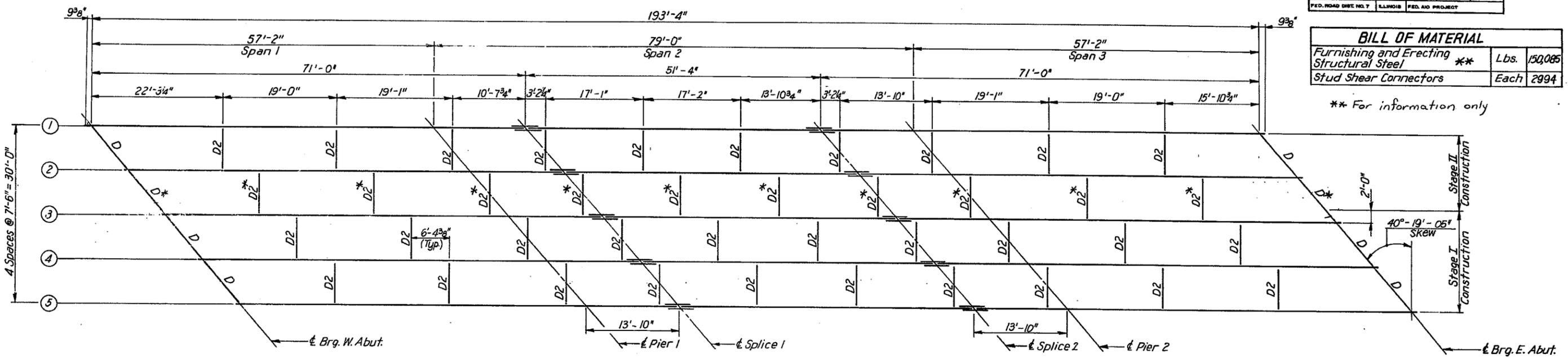
DESIGNED	L.M.
CHECKED	D.W.
DRAWN	K.C.
CHECKED	L.M.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

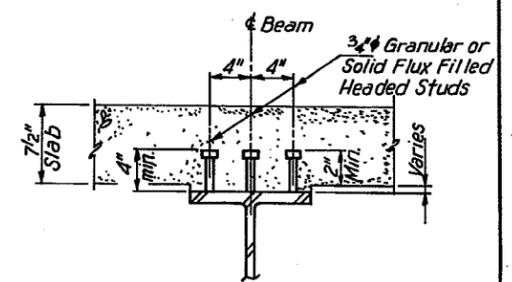
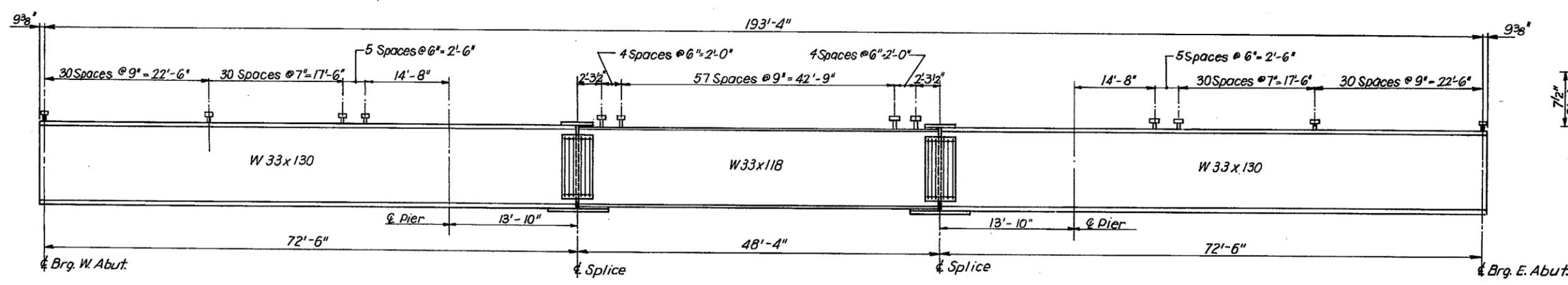
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. I. 553	119(VB-NRS)R	OGLE	28	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 9
SHEETS 16 A



BILL OF MATERIAL	
Furnishing and Erecting Structural Steel	** Lbs. 150,085
Stud Shear Connectors	Each 2994

** For information only



Beam	¢ Brq. W. Abut.	¢ Brq. Pier 1	¢ Splice 1 W 33x130	¢ Splice 2 W 33x130	¢ Brq. Pier 2	¢ Brq. E. Abut.
1	103.40	103.89	104.01	104.26	104.28	104.35
2	103.60	104.07	104.18	104.42	104.43	104.47
3	103.79	104.23	104.34	104.56	104.56	104.58
4	103.73	104.15	104.25	104.45	104.45	104.45
5	103.66	104.06	104.16	104.32	104.32	104.30

	0.4 Sp. 1	¢ Pier 1	0.5 Sp. 2	¢ Pier 2	0.4 Sp. 3
I_s (in ⁴)	6710	6710	5900	6710	6710
I_c (in ⁴)	17157	—	16333	—	17157
S_s (in ³)	406	406	359	406	406
S_c (in ³)	581	—	539	—	581
M (k/ft)	0.86	0.88	0.85	0.88	0.86
$M \phi$ (k)	221	563.1	298.5	563.1	221
F_s non comp. (ksi)	6.5	16.6	10	16.6	6.5
$S \phi$ (k/ft)	0.35	0.35	0.35	0.35	0.35
$M_s \phi$ (k)	101.4	202.7	162.3	202.7	101.4
$M \phi$ (k)	960	709	1099	709	960
$M Imp$ (k)	264	184	269	184	264
TOTAL M comp. (k)	1325.4	1095.7	1530.3	1095.7	1325.4
F_s comp. (ksi)	21.4	32.4	34.1	32.4	21.4
F_s TOTAL (ksi)	33.9	49	44.1	49	33.9
VR (k)	49	—	51	—	49

	W. Abut.	Pier 1	Pier 2	E. Abut.
$R \phi$	17.35	69.48	69.48	17.35
$RS \phi$	6.98	27.02	27.02	6.98
$R \phi$	44.78	56.38	56.38	44.78
$R Imp$	12.31	13.81	13.81	12.31
R TOTAL	81.42	166.69	166.69	81.42

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing F_s TOTAL
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_s TOTAL
 VR is the maximum ϕ + Impact shear range in span used to determine shear connector spacing
 Load Factors 1.3 [D.L. + ϕ (L.L.+I)] have been used to compute moments

SIGNED	L.M.
CHECKED	D.W.
AWN	K.C.
CHECKED	L.M.

NAME	DATE

STEEL DETAILS I
 F.A. RTE. 553 OVER C.M.S.T. P&PACIFIC R.R.
 F.A. RTE. 553 (ILL. 72)SECTION 119(VB-NRS)R
 OGLE COUNTY
 STA. 410+68.20

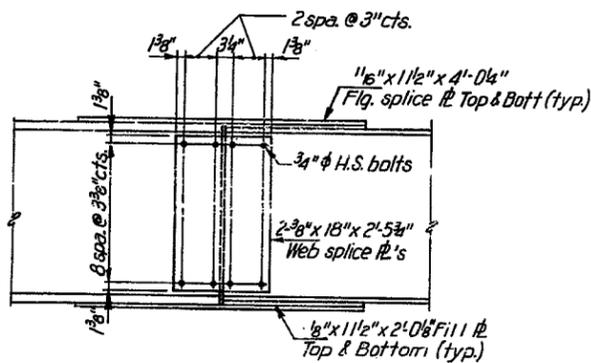
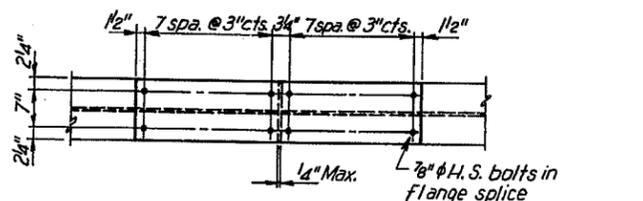
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 HORIZ. NO SCALE
 DATE 3-1-1982

FOR INFORMATION ONLY

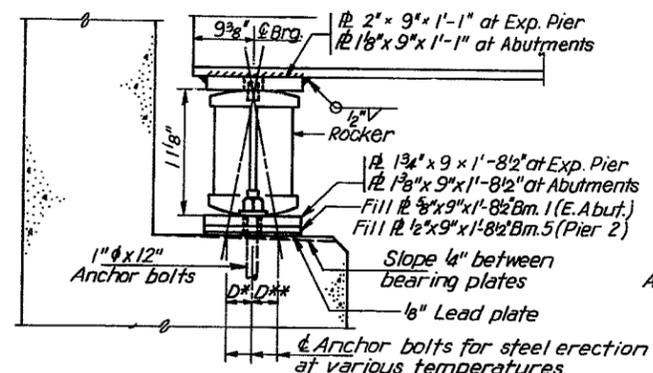
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. I. F. A. 553	119(VB-NRS)R	OGLE	28	22
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

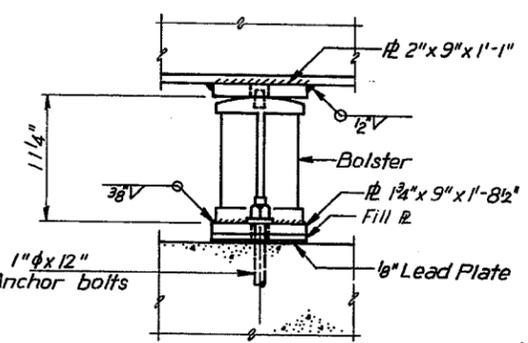
SHEET NO. 10
SHEETS 16 A



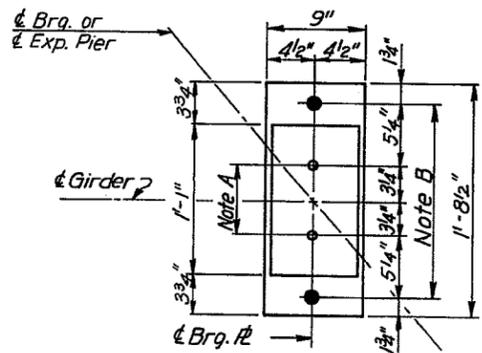
SPLICE DETAILS



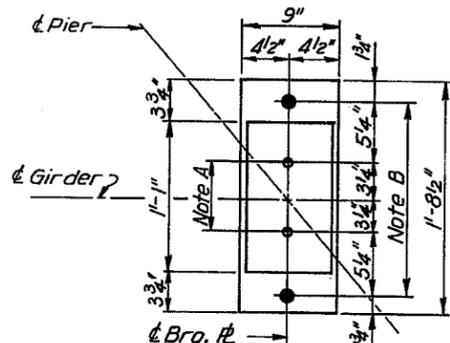
ELEVATION



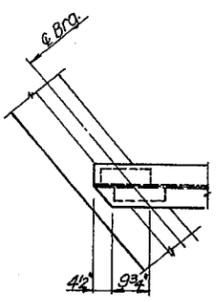
ELEVATION



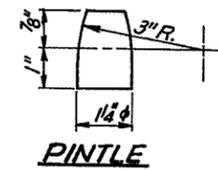
PLAN AT ABUTMENT AND EXPANSION PIER



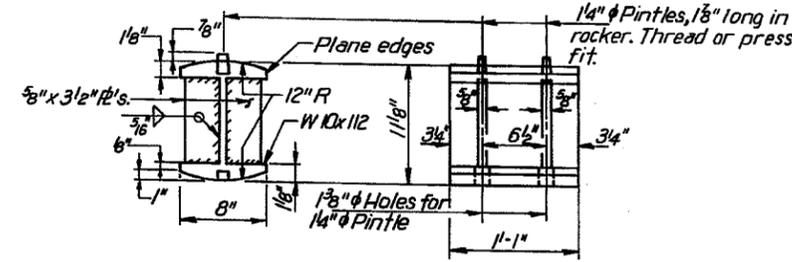
PLAN AT FIXED PIER



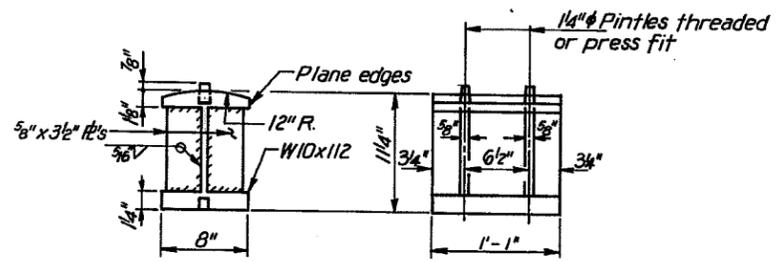
DETAIL 'A'



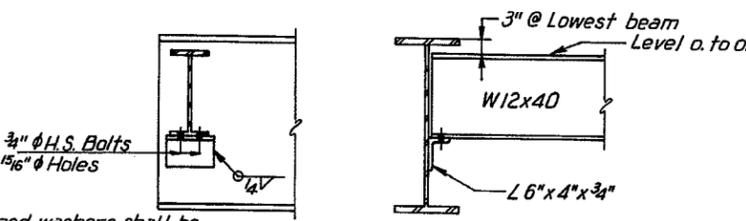
PINTLE



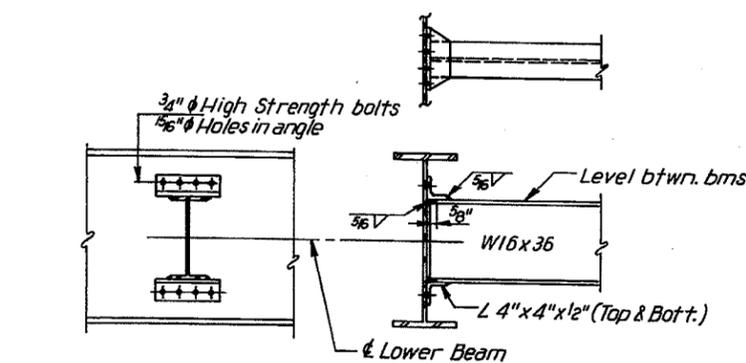
ROCKER



BOLSTER



END DIAPHRAGM D



INTERIOR DIAPHRAGM D₂

NOTES FOR SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) D* (Side of bearing away from fixed bearing)
D* = 6" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
D** (Side of bearing toward fixed bearing)
D** = 6" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- b) After girders have been erected and dimensions D* & D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

Note A
1 3/8" diameter Holes - 1" deep in top plate for 1/4" diameter pintles. 1/4" diameter pintles 1 7/8" long in bottom plate. Thread or press fit.
Note B
1 1/2" diameter Holes for 1" diameter anchor bolts. 5/16" x 2 1/2" x 2 1/2" washers under nuts.

DESIGNED	L.M.
CHECKED	D.W.
DRAWN	K.C.
CHECKED	L.M.

REVISIONS	
NAME	DATE

STEEL DETAILS II
F.A. RTE. 553 OVER C.M.ST. P&PACIFIC R.R.
F.A. RTE. 553 (ILL. 72) SECTION 119(VB-NRS)R
OGLE COUNTY
STA. 410+68.20

SCALE: VERT. NO SCALE
DATE 3-1-1992