01-15-2016 LETTING ITEM 086

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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IMPROVEMENT IS LOCATED IN THE VILLAGES OF MAYWOOD AND WILMETTE

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION: 2015–067BR
BRIDGE REPAIR; SIGN MAINTENANCE
COOK COUNTY

C-91-049-16

SEE LOCATION MAPS SHEET 4

0 100' 200' 300' -1" = 100'
0 10' 20' 30' -1" = 10'
0 50' 100'
0 50' 100' 1" = 40'
0 50' 100' -1" = 30'
0 50' 100' -1" = 30'

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

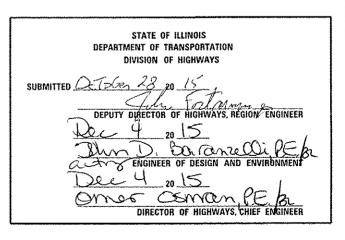
PROJECT ENGINEER J. ALAIN MIDY (847) 221–3056
PROJECT MANAGER ISSAM RAYYAN (847) 705–4178

**CONTRACT NO. 62B49** 

F.A. SECTION COUNTY TOTAL SHEET NAME OF SHEE

D-91-049-16





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

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### STATE STANDARDS

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	3.	SUMMARY OF QUANTITIES	643001-02	SAND MODULE IMPACT ATTENUATORS
	4.	LOCATION MAPS	701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
*	5-13.	BRIDGE PLANS (SN 016-0545)	701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
	14-16.	TRAFFIC CONTROL STAGING PLANS (SN 016-0545)	701427- <i>03</i>	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS < 40 MPH
	17-20.	BRIDGE PLANS (SN 016-0692)	701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
	21-22.	BRIDGE PLANS (SN 016-0699)		
	23.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS AND DRIVEWAYS (TC-10)	701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
	24.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 2 45 MPH TO 55 MPH
	25.	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701601-09	URBAN LANE CLOSURE, MULTILANE IW OR 2W WITH NONTRAVERSABLE MEDIAN
	26.	ARTERIAL ROAD INFORMATION SIGN (TC-22)	701801- <i>05</i>	SIDEWALK, CORNER OR CROSSWALK CLOSURE
			701901- <i>04</i>	TRAFFIC CONTROL DEVICES
	* INCL	UDES SHEET 5A.	704001- <b>07</b>	TEMPORARY CONCRETE BARRIER

### **GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REOUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS AND (847) 705-4155 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF MAYWOOD AND WILMETTE.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROAD AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.

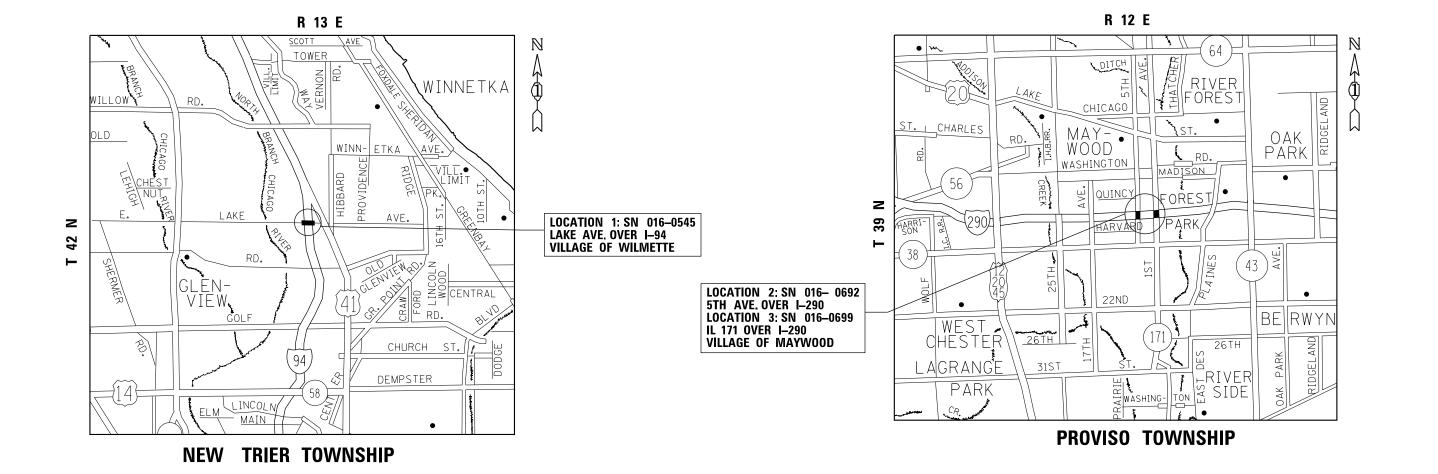
FOR LOC 2) (SN 016-0692) A BARRICADE OR DRUM WITH FLASHING LIGHTS SHALL BE PLACED ON THE SIDEWALK ON EITHER SIDE OF TEMPORARY SLAB SUPPORT SYSTEM. COST INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701801.

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	AND	GENERAL	NOTES			
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
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		CONTRACT	NO. 6	2849
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			URBAN			400		3				URBAN	/					
	SUMMARY OF QUANTITIES		A STATE OF THE STA		T	ONSTRUCT	ION TYPE	1		SUMMARY OF QUANTITIES				(	ONSTRUCT	ION TYPE		
CODE NO	D	UNIT	TOTAL	016-0545 0014	MCHD 782303 016-0692 0014	016-0699 0014	016-0545 0021	MCHD 782303 016-0692 0021	CODE NO	[TEM	UNIT	TOTAL QUANTITIES	016-0545 0014	MCHD 782303 016-0692 0014	016-0699 0014	016-0545 0021	MCHD 782303 016-0692 0021	
5010240	O CONCRETE REMOVAL	CU YD	6.0	2.1	3.9				X 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3	3					
5030025	5 CONCRETE SUPERSTRUCTURE	CU YD	6.0	2.1	3.9				X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	•					
5050040	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	38930	23400	15530	THE STATE OF THE S			X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	0. 33	0.33	0.34			***************************************
5210057	20 ANCHOR BOLT, I"	EACH	2	2						·				**********				
6710010	0 MOBILIZATION	LSUM	1	0.33	0.33	0.34			x7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III. 4 INCH	FOOT	861	861	Andrian advisor and				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	L.		1				X7380150	REMOVE AND RE-ERECT OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED, SPECIAL	EACH	Anne de la companya d					1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	THE ANALYSIS AND A	444				Z0001903	STRUCTURAL STEEL REMOVAL	POUND	38050	22750	15020	280			
70200100	O NIGHTTIME WORK ZONE LIGHTING	LSUM	1	0.33	0.33	0.34	***************************************		Z0001905	STRUCTURAL STEEL REPAIR	POUN0	540			540		·	
70301000	O WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	287	287					20003600	BEAM STRAICHTENING	LSUM	and the state of t	0.4	0.4	0.2			***************************************
7040010	O TEMPORARY CONCRETE BARRIER	FOOT	250	250					Z007330O	TEMPORARY SHORING AND CRIBBING	L SUM	**************************************	0.5	0.5				
72000200	D SIGN PANEL - TYPE 2	SO FT	23.75				23.75		20073351	TEMPORARY SLAB SUPPORT SYSTEM	L SUM	L L	0.5	0.5			-	
72000300	0 SIGN PANEL - TYPE 3	\$0 FT	123				123		10								-	
73304000	O OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	21				21											
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	erit				4000									and the same of th		
78000200	D THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	202	202			And the state of t							-				· ·
78200530	D BARRIER WALL MARKERS, TYPE C	EACH	9	9														
78300100	PAVEMENT MARKING REMOVAL	SO FT	68	68				- Andrew Control of the Control of t		* Specialty Item	25							
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## TRAFFIC DATA

LAKE AVE.

2014 ADT = 23,600 POSTED SPEED LIMIT = 35 MPH

I-94

2014 ADT = 133,400 POSTED SPEED LIMIT = 55 MPH

## TRAFFIC DATA

5TH AVE.

2014 ADT = 8,550 POSTED SPEED LIMIT = 25 MPH

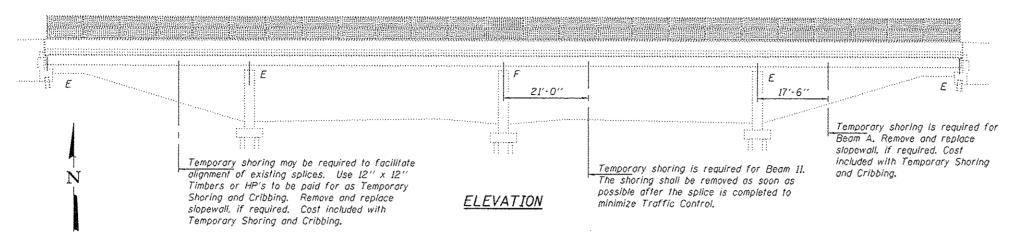
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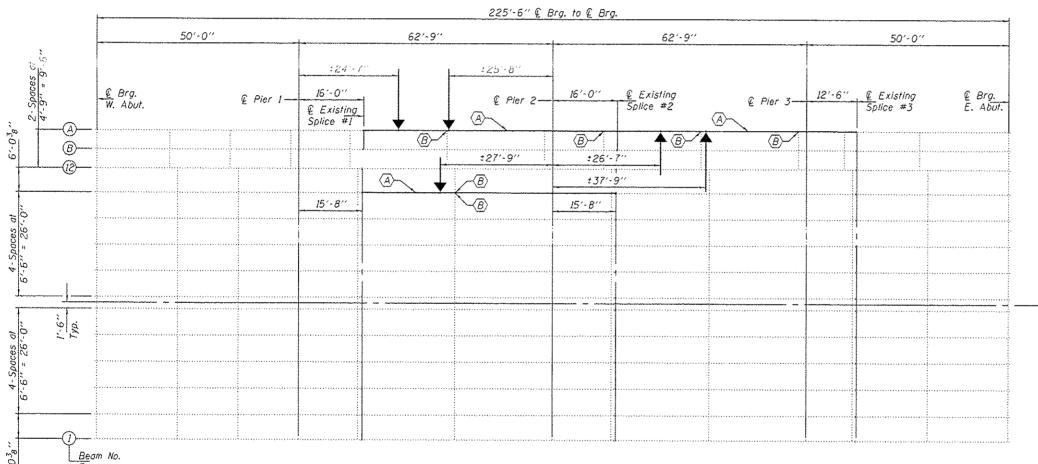
2013 ADT = 25,600 POSTED SPEED LIMIT = 35 MPH

I-290

2014 ADT = 185,700 POSTED SPEED LIMIT = 55 MPH

	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -							F.A. RTE.	SECTION	COUNTY	TOTAL	HEET NO.
pw:\\IL084EBIDINTEG.:1ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D104	916RAMINata\Design\D104916-sht-plan.dgn	REVISED -	STATE OF ILLINOIS			100	ATION MAPS		VAR.	2015-067BR	соок	26	4
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## FRAMING PLAN

- (A) Remove & Replace Beam Segment
- B Remove & Replace Bottom Clip Angles

#### Impact Line

### BEAM "A" AT PIERS 1 & 3

ABLE AT
SHORING
() 53
() 33
() 9
() 95

# BEAM "A"

REACTION TEMPORA		
RQ	(K)	54
R4	(K)	34
Imp.	(K)	9
R (Total)	(K)	97

### <u>BEAM 11</u> AT PIERS 1 & 3

REACTION TEMPORA		
R₽	(K)	59
RŁ	(K)	42
Imp.	(K)	12
R (Total)	(K)	113

### <u>BEAM 11</u> AT PIER 2

REACTION TEMPORA		
R₽	(K)	59
RŁ	(K)	43
Imp.	(K)	12
R (Total)	(K)	114

#### GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted,

Fasteners shall be high strength bolts. Flange splice holes shall be  $^{15}_{16}$  "\$\phi\$ for  $^{7}_{8}$ "\$\phi\$ bolts. Web splice holes shall be  $^{13}_{16}$  "\$\phi\$ for  $^{3}_{4}$ "\$\phi\$ bolts. unless otherwise noted. Diaphragm connection holes shall be  $^{15}_{16}$  "\$\phi\$ for  $^{3}_{4}$ "\$\phi\$ bolts. Two hardened washers shall be required at diaphragm connections.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project,

Existing structural steel that will be in contact with new structural steel shall be clouned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The Organic Zinc Rich Primer / Epoxy / Urethane Point System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shap applied, with the exception that masked connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5b 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially defrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

### TOTAL BILL OF MATERIAL

TOTAL BILL OF MATE	TUIAL	
ITEM	UNIT	OUANTITY
Concrete Removal	Cu. Yd,	2.1
Concrete Superstructure	Cu. Yd.	2.1
Structural Steel Removal	Pound	22,750
Furnishing & Erecting Structural Steel	Pound	23.240
Beam Straightening	L.S.	0.4
Anchor Bolts, I''	Each	24
Temporary Shoring and Cribbing	L.S.	0.5
Temporary Slab Support System	L.S.	0.5
Remove Overhead Sign Structure - Bridge Mounted	Each	1 -
Overhead Sign Structure - Bridge Mounted	Foot	21.0

DESIGNED Stophylm Refran
CHECKED
DRAWN Steffen
CHECKED SMR
CMC

DAVID CARL

PUZEY

081-005470 SPRINGFIELD ILLINOIS

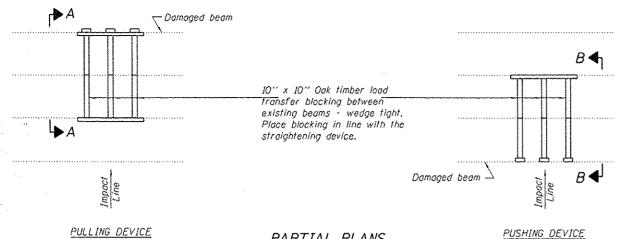
EXPIRES 11-30-2016

PASSED ACTING ENGINEER OF BRIGGES AND STAGETURE

DATE NOVEMBER 25, 2015
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
LAKE AVE. OVER FAI 94
SN 016-0545
SHEET NO. 1 OF 9 SHEETS

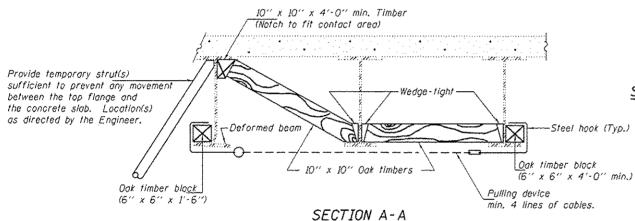


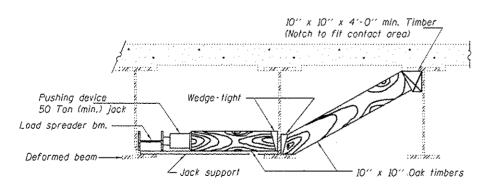
PULLING DEVICE

#### PARTIAL PLANS

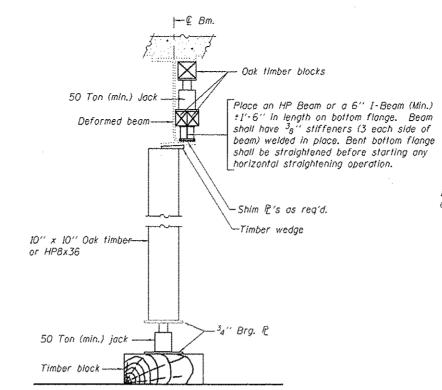
### SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



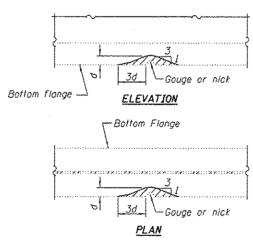


SECTION B-B



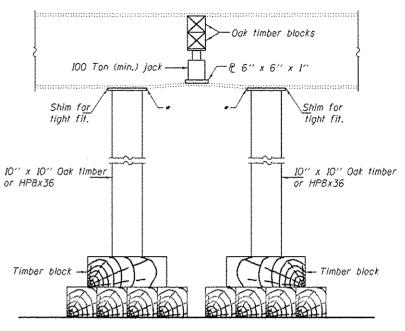
## SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



## GRINDING DETAIL

Grind existing nicks, gauges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately 4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

\* Edge of plate shall line up with edge of deformation.

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



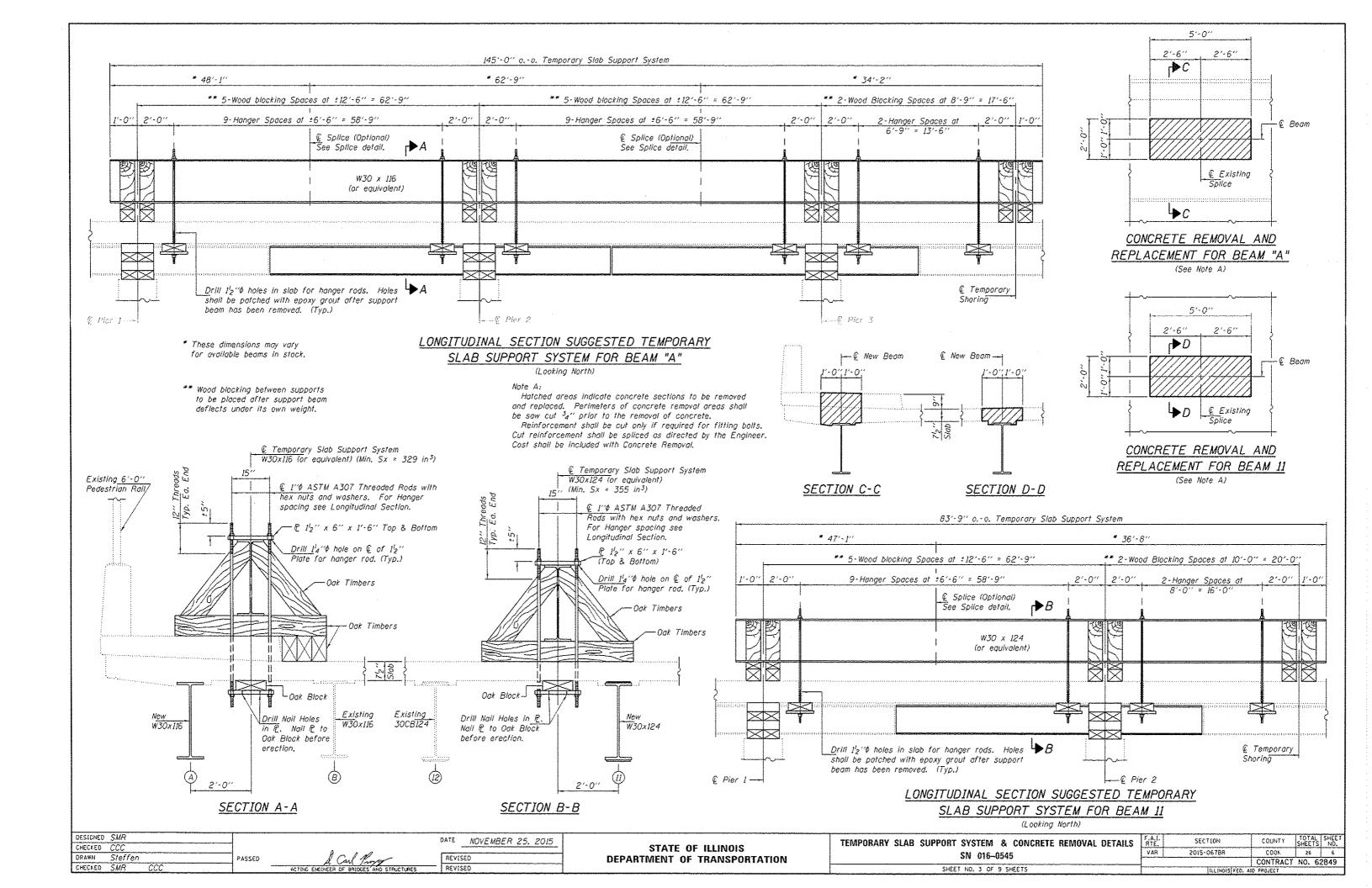
## EXISTING DEFORMATION

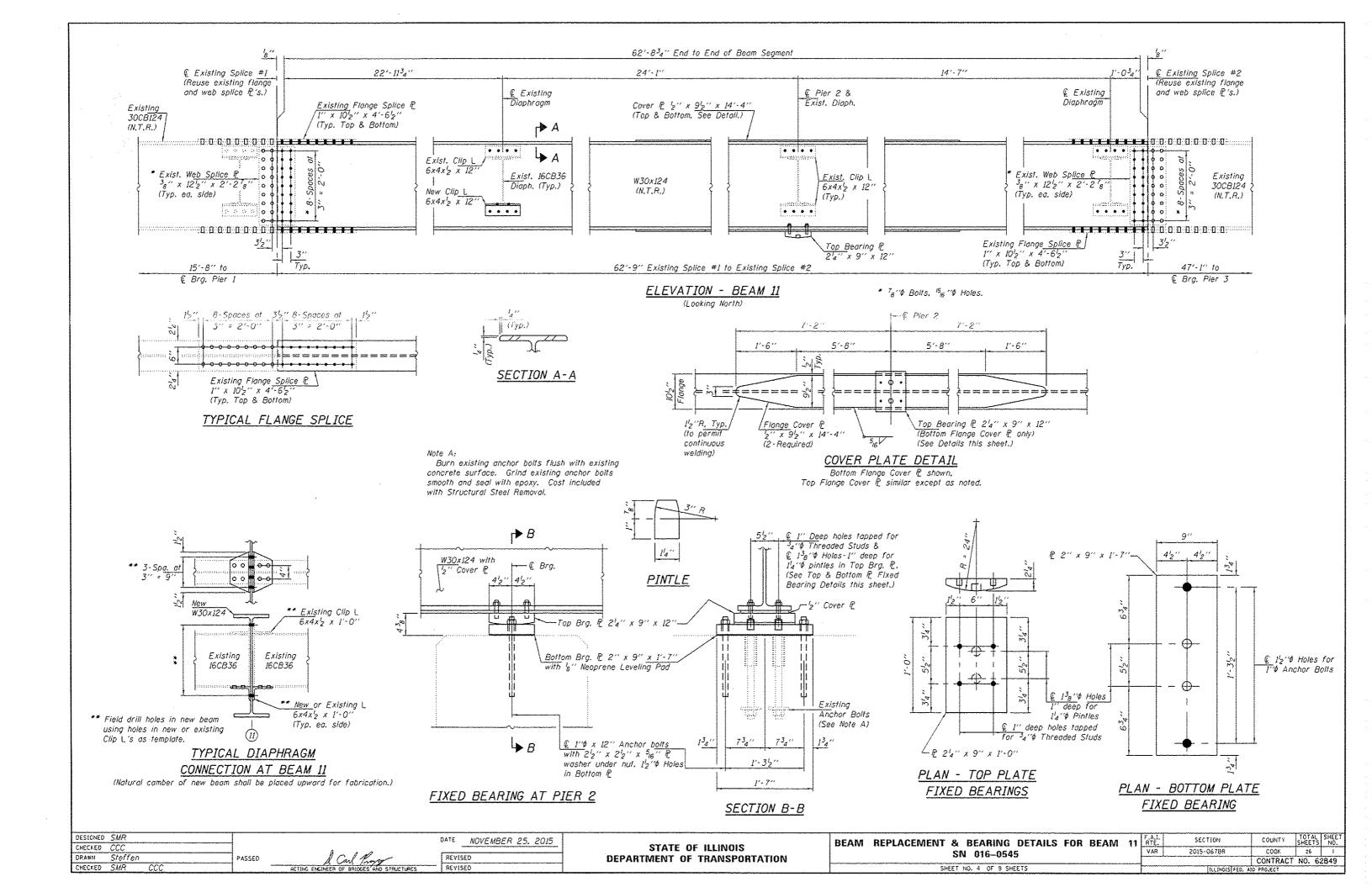
#### TARIF OF DIMENSIONS

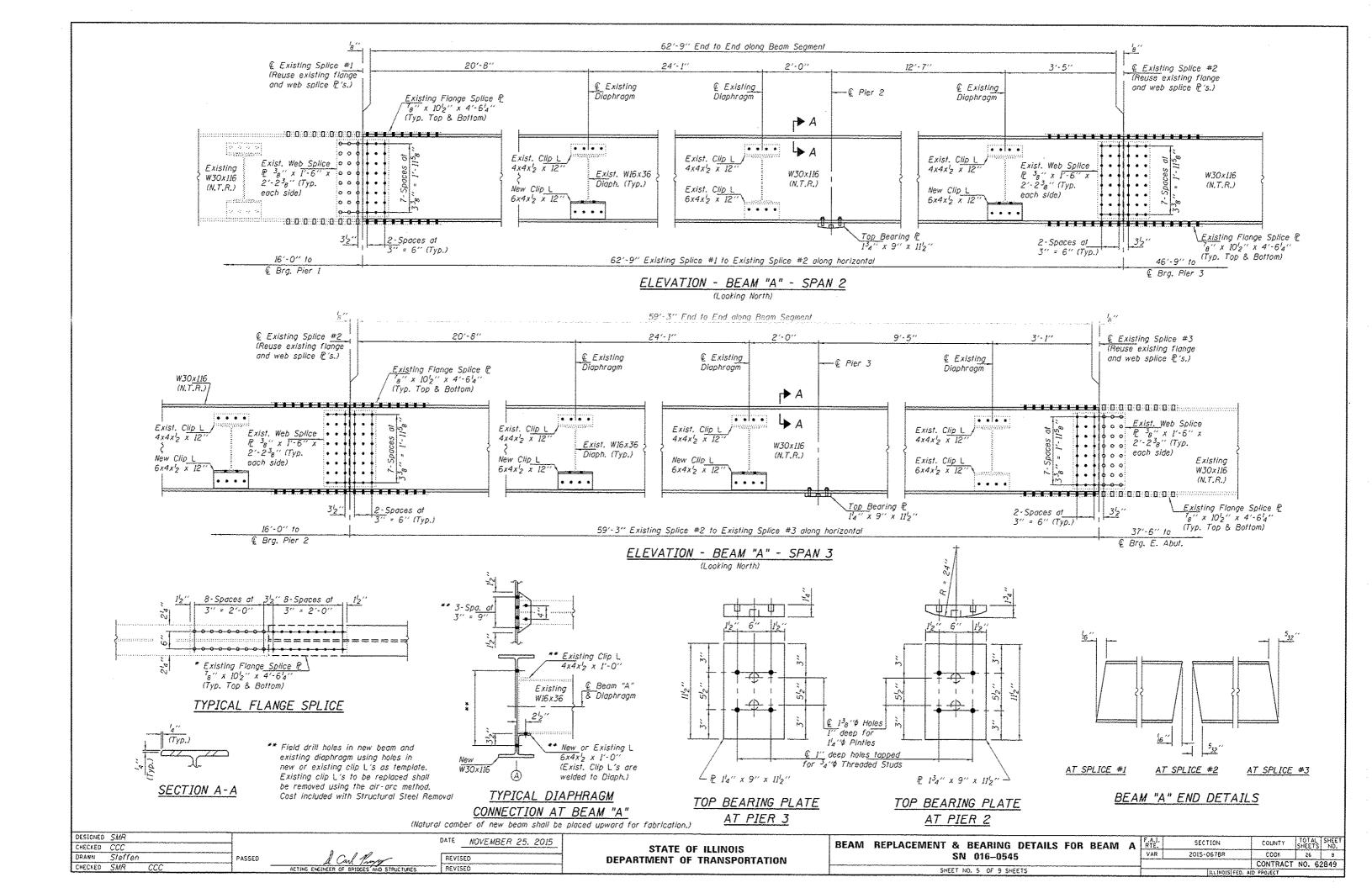
Beam	X	γ	Z	Lookin
A (SB)	25"	14"	4'-0"	East
A (NB)	634"	<i>I''</i>	8'-0"	West
11	64"	25"	4'-0"	East

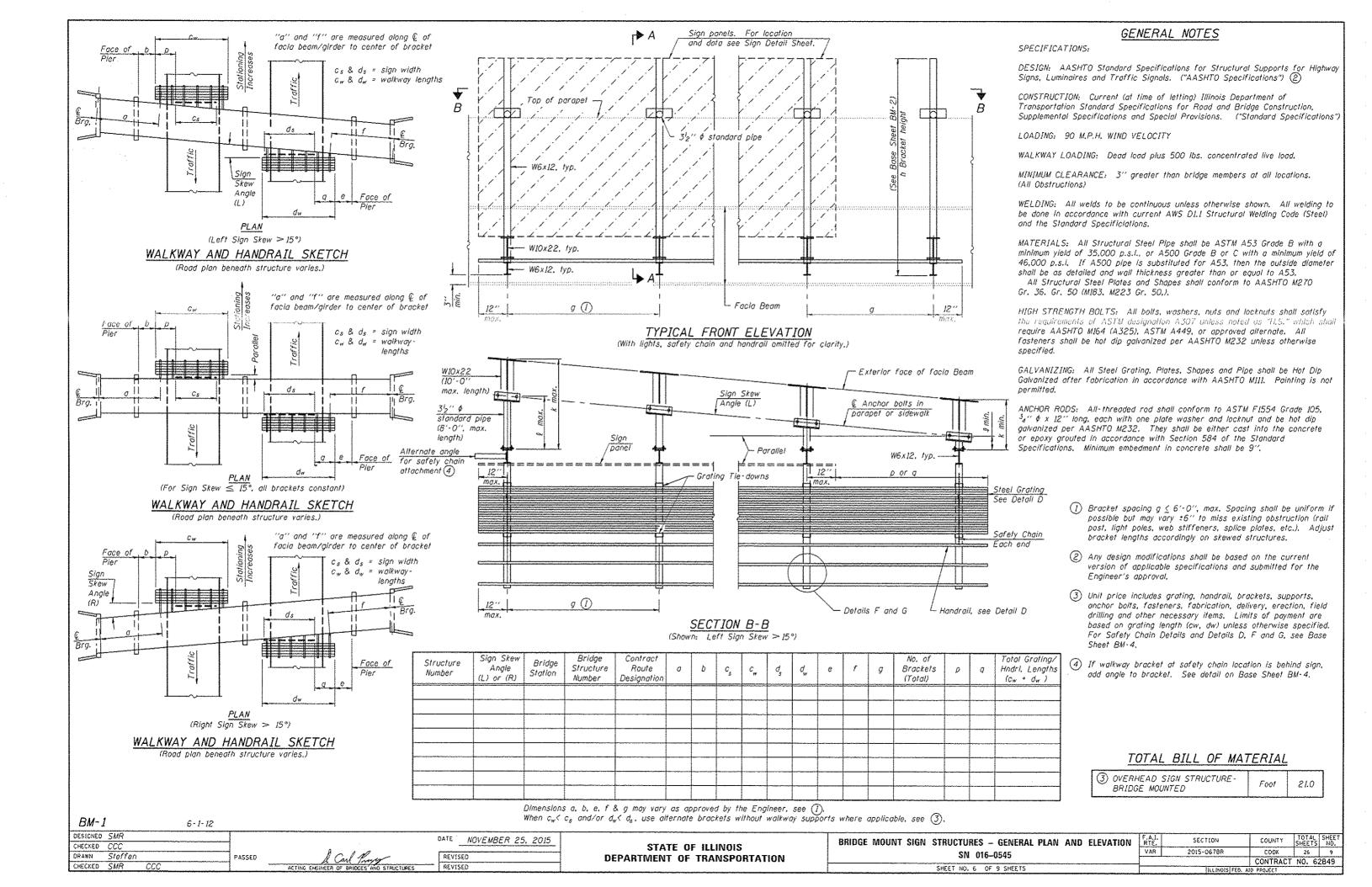
#### TO BE STRAIGHTENED (See Table for direction) (Approximate max. deflections) Deflected length of beam to be straightened is approximately "Z".

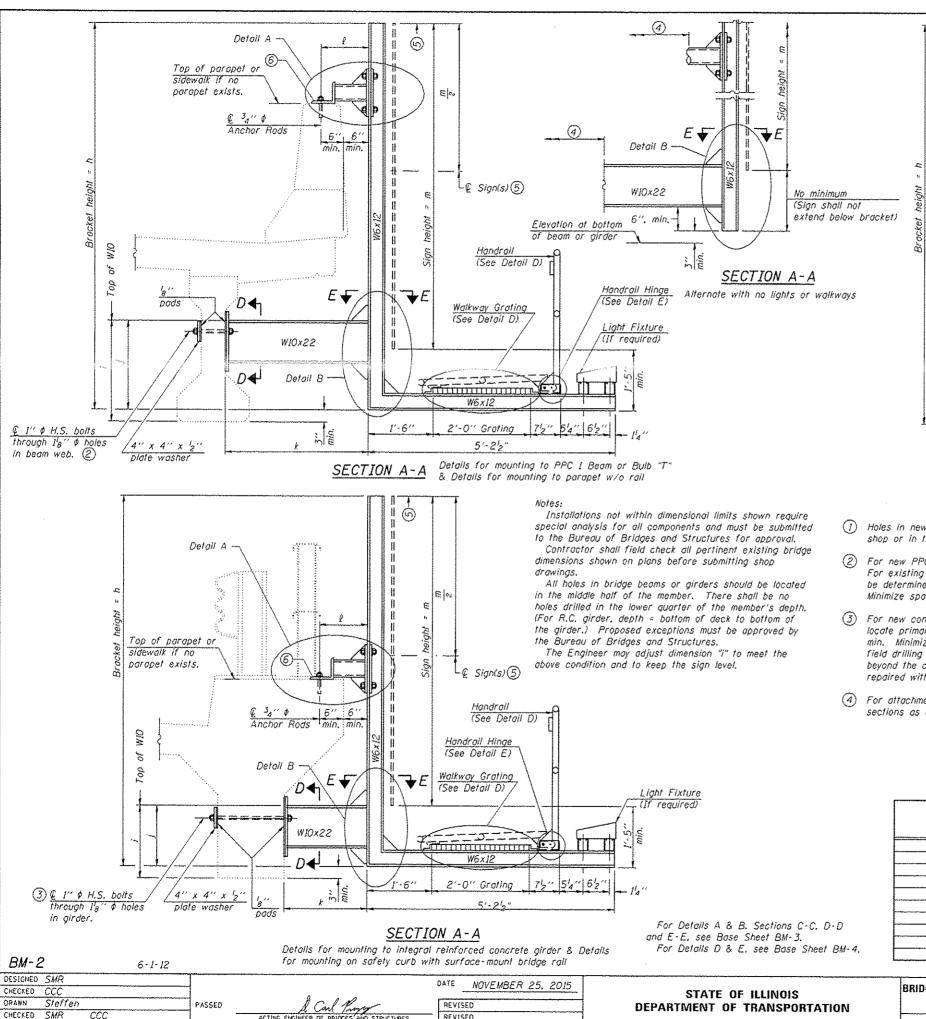
REP-1 1-14-2005									
DESIGNED SMR		DATE NOVEMBER 25. 2015	CTATE OF HIBIOIC	BEAM STRAIGHTENING DETAILS	F.A.1. RTE.	SECTION	COUNTY	TOTAL SHEET!	SHEE NO.
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CHECKED SMR CCC	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 2 OF 9 SHEETS	1	ILLINOIS	FED. AID PROJECT	/ NO. U	2043

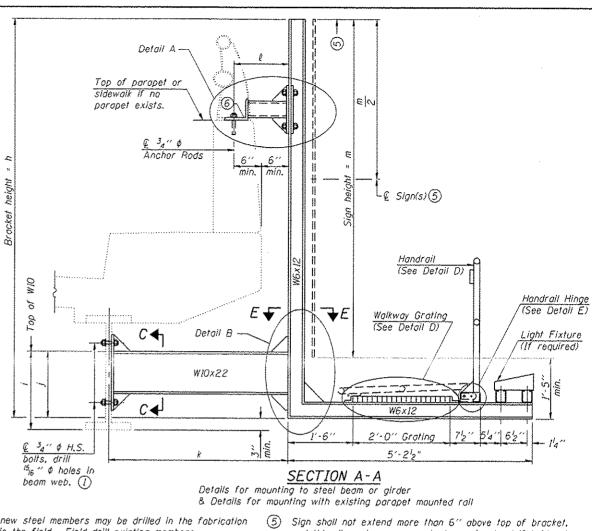












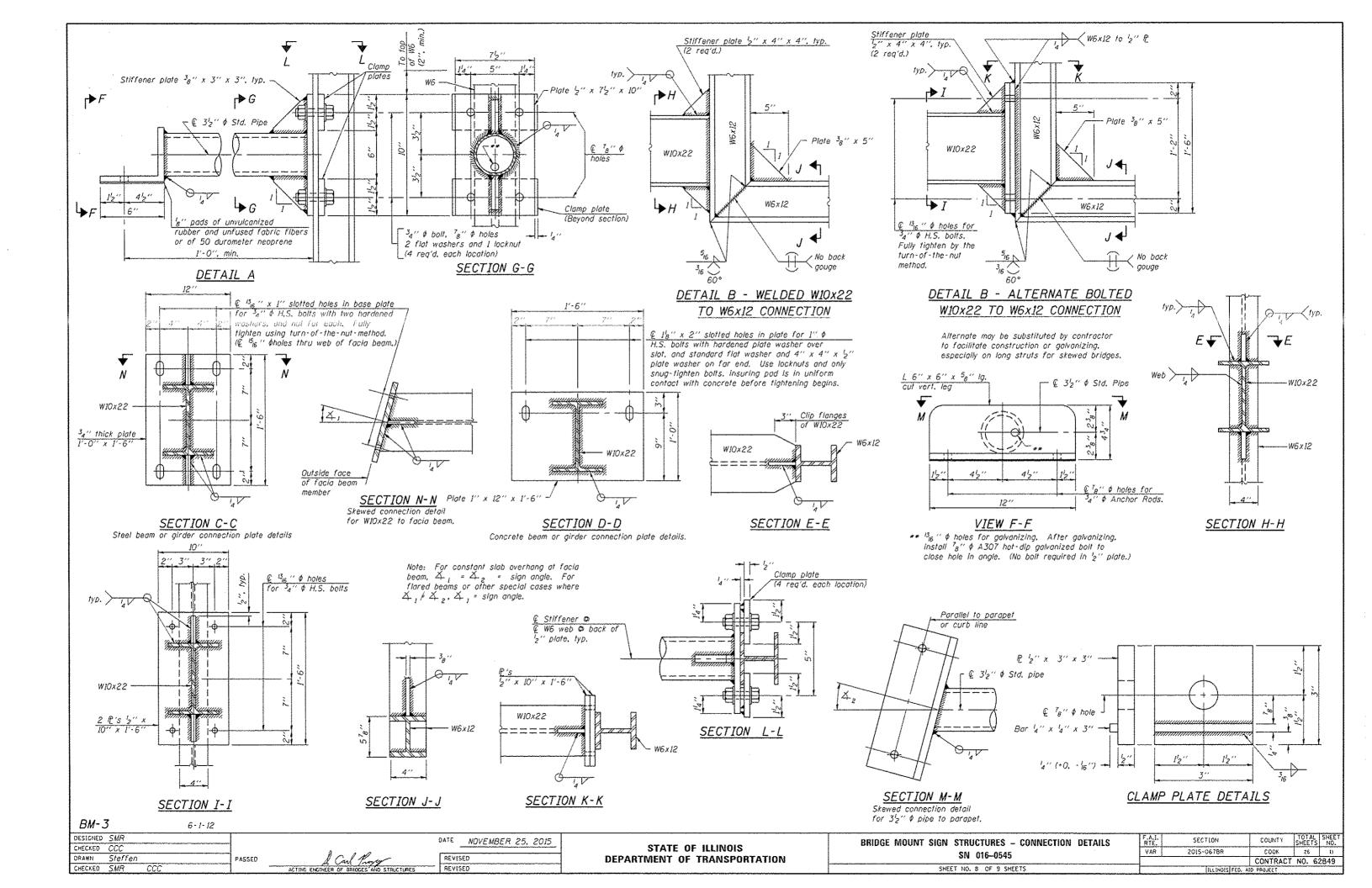
Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.

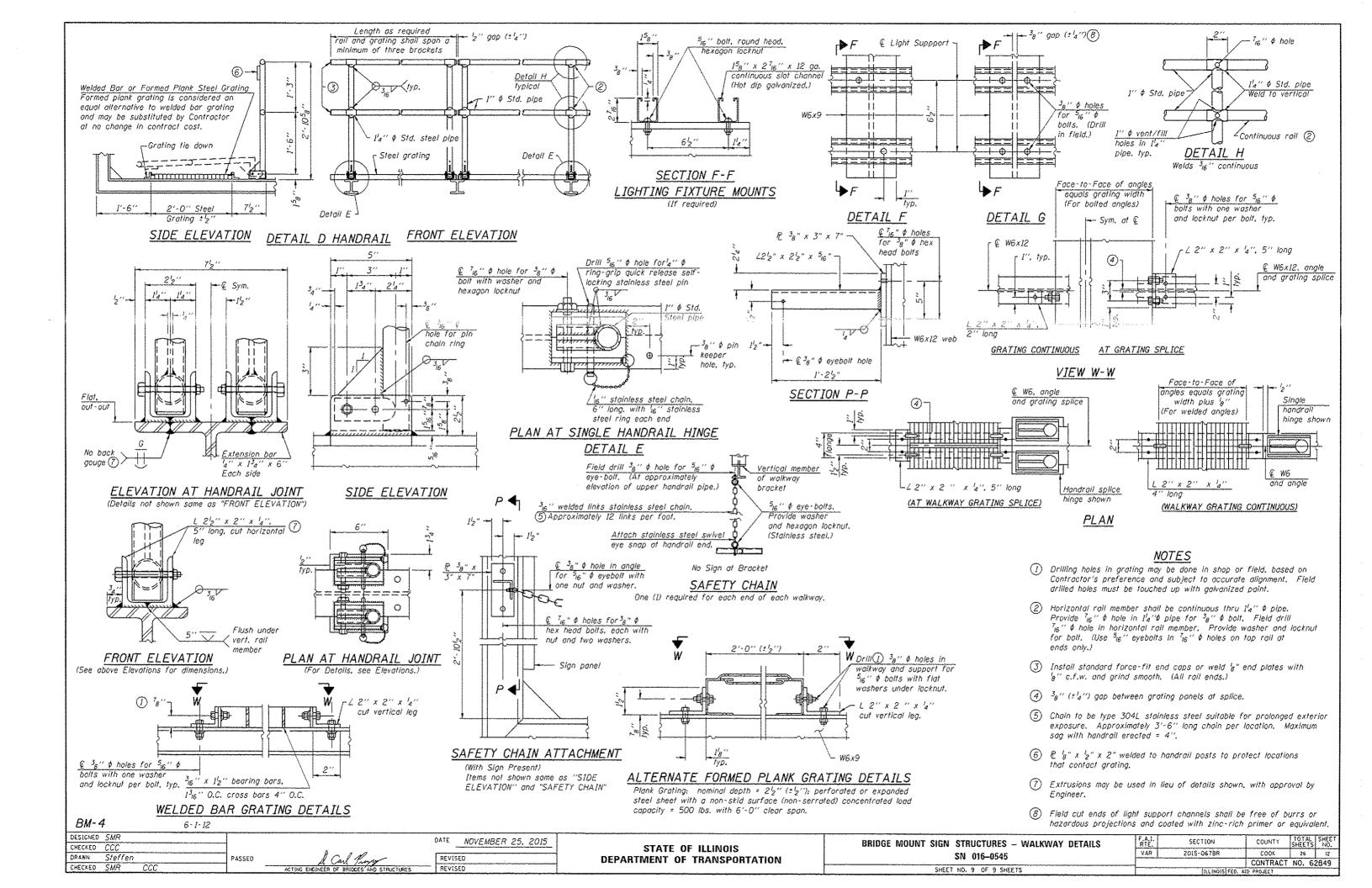
For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.

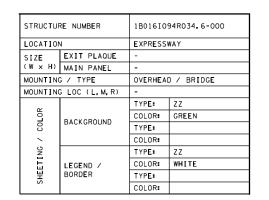
- 3 For new construction, form holes. For existing RC beams. locate primary reinforcement and space holes to miss by 6". min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- (4) For attachment details of 312" pipe and W10x22, see other sections as applicable.
- and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to ralling installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

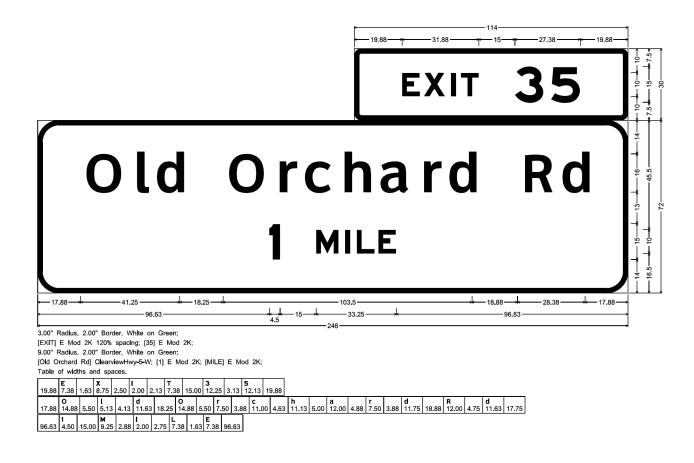
Structure Number	Station	h	į	j	k max. (10'-0'' max.)	ℓ max. (8'-0" max.)	m (15'-0'' max.)
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				<del></del>			
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BRIDGE MOUNT SIGN STRUCTURES - WALKWAY & CONNECTION DETAILS F.A.I COUNTY COOK 26 10 2015-067BR SN 016-0545 CONTRACT NO. 62849 SHEET NO. T OF 9 SHEETS ILLINOIS FED. AID PROJECT

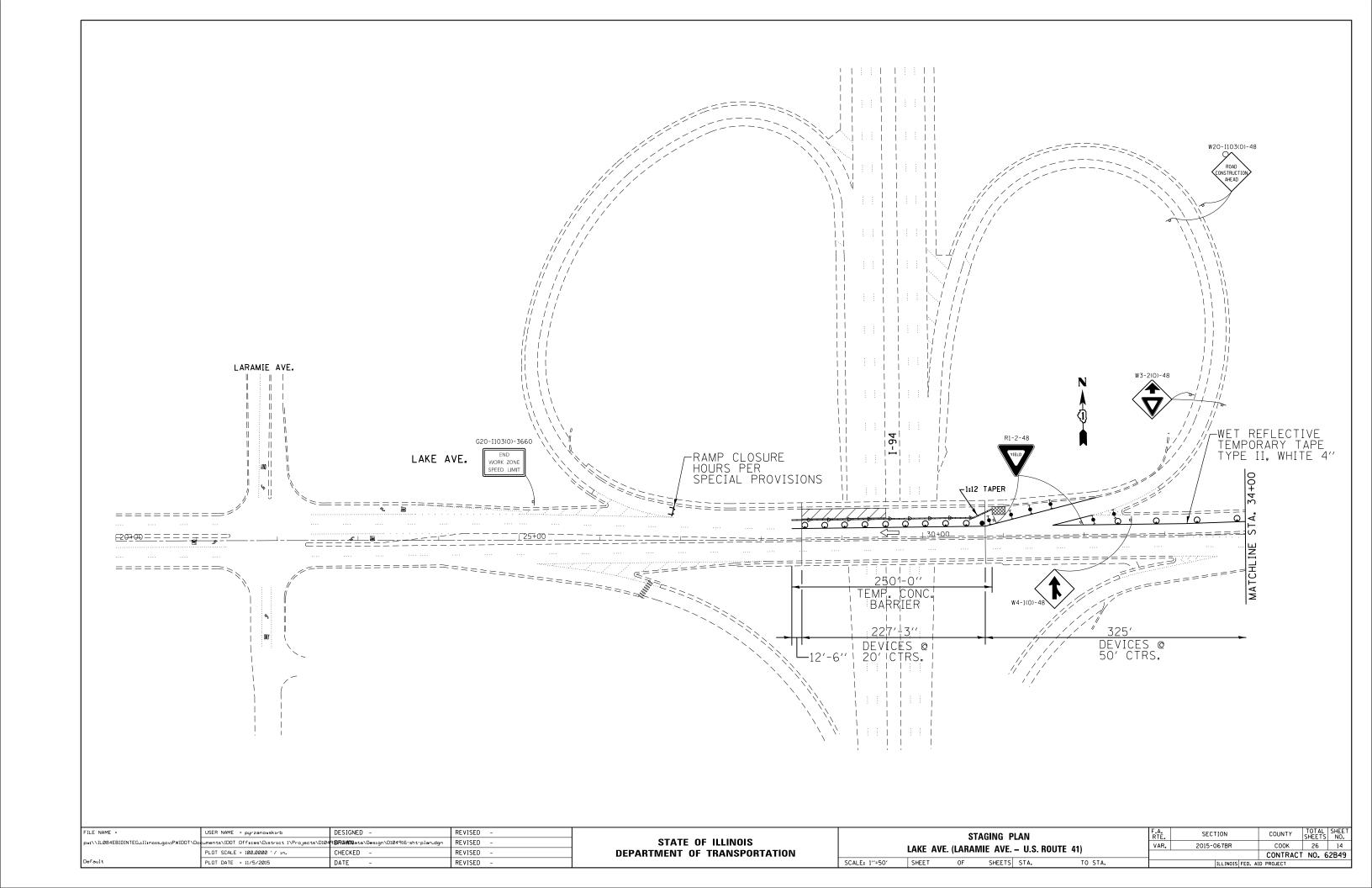


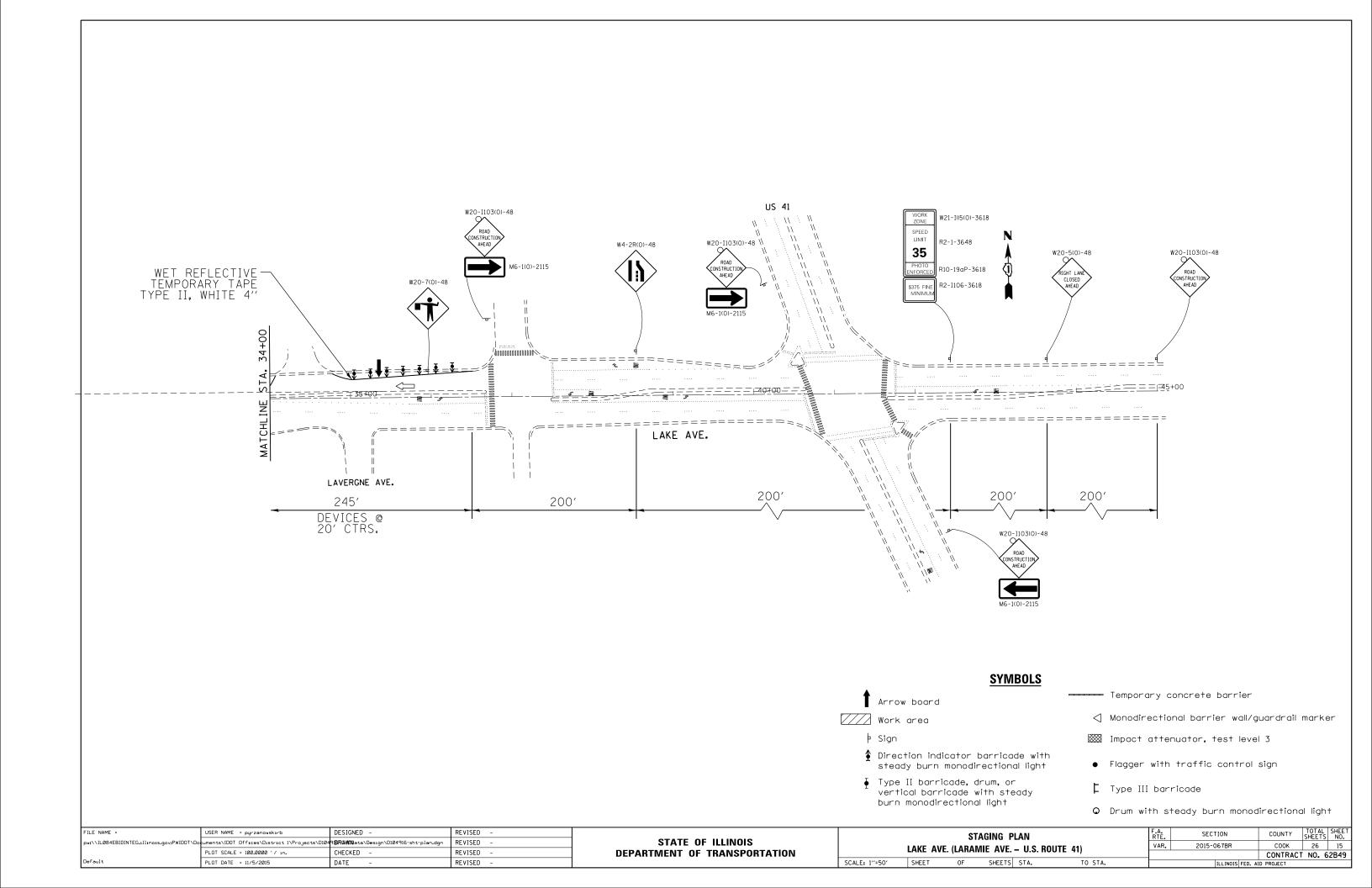


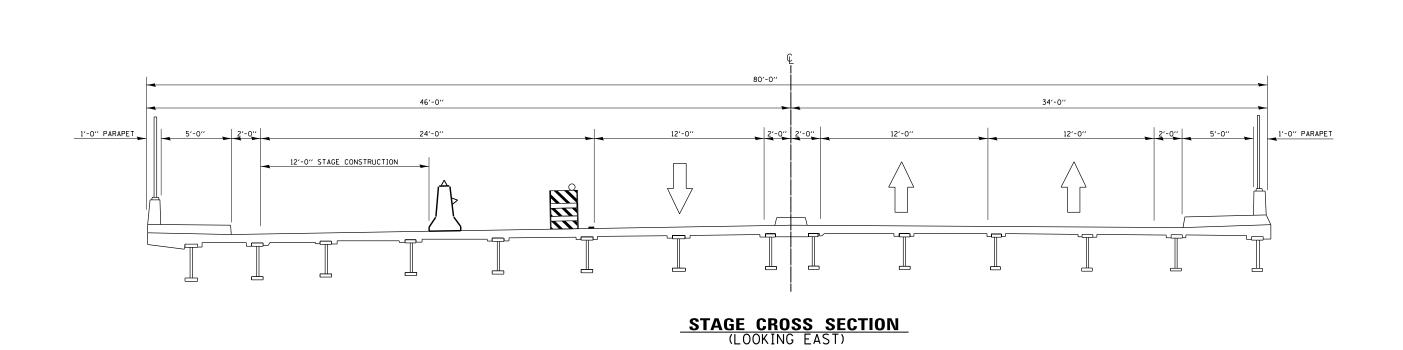


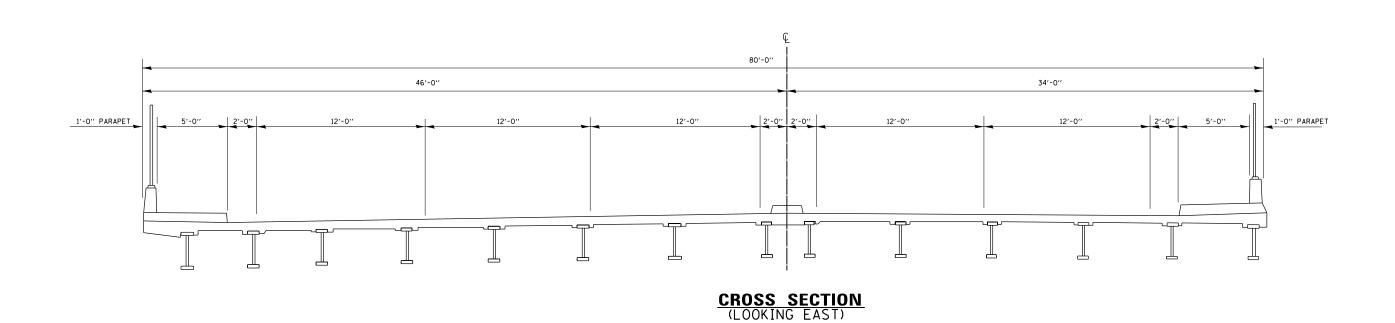


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STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

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CHECKED -

DATE

USER NAME = pyrzanowskirb

PLOT DATE = 11/5/2015

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COUNTY TOTAL SHEET NO.

COOK 26 16

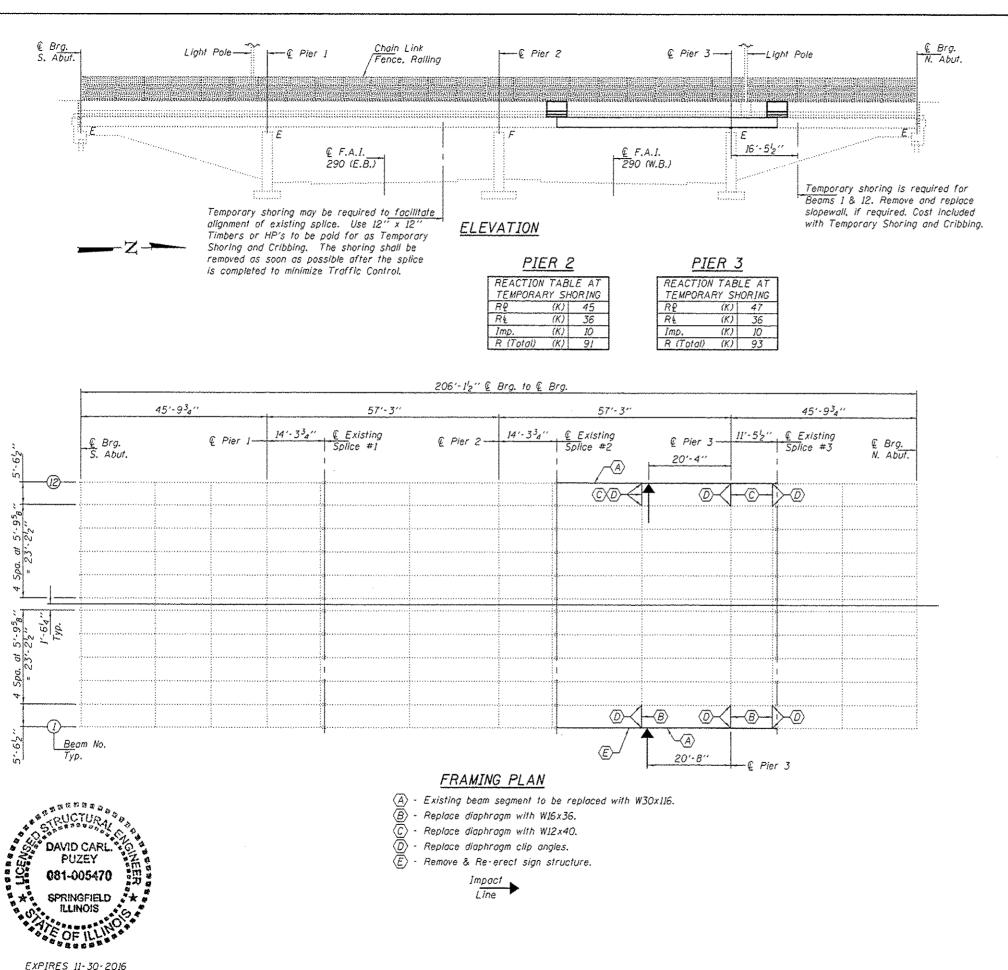
CONTRACT NO. 62B49

SECTION

2015-067BR

VAR.

TO STA.



#### GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36. unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 58 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Diaphragm connection holes shall be  $^{15}$ <sub>16</sub> '' $\phi$  for  $^{3}$ <sub>4</sub>'' $\phi$  bolts. Two hardened washers shall be required at diaphragm connections.

Fasteners shall be high strength bolts. Flange and web splice holes shall be  $^{15}_{16}$  ' $^{16}$  for  $^{7}_{e}$  ' $^{16}$  bolts.

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loase or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered point may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure,

Existing structural steel that will be in confact with new structural steel shall be cleaned and painted prior to erection as required by the GBSP "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

### TOTAL BILL OF MATERIAL

ITEM	UNIT	OUANTIT
Concrete Removal	Cu. Yd.	3.9
Concrete Superstructure	Cu. Yd.	3.9
Structural Steel Removal	Pound	15.020
Furnishing & Erecting Structural Steel	Pound	15,530
Beam Straightening	L.S.	0.4
Temporary Slab Support System	L.S.	0,5
Temporary Shoring & Cribbing	L.S.	0.5
Remove and Re-erect Overhead Sign Structure - Bridge Mounted, Special	Each	I

DESIGNED Stephen M Ryan
CHECKED download
DRAWN Steffen
CHECKED SMR COUL

PASSED ACTING ENGINEER OF BATGGES AND STATEGUES

DATE NOVEMBER 25, 2015
REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION

5TH AVENUE OVER F.A.I. ROUTE 290

SN 016--0692

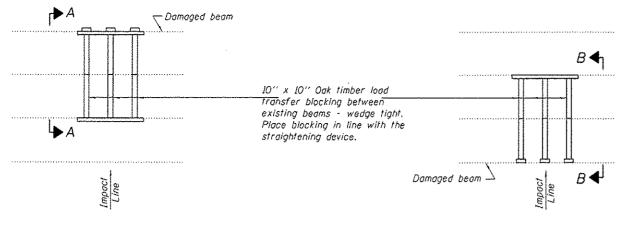
SHEET NO. 1 OF 4 SHEETS

 F.A.I. RTE.
 SECTION
 COUNTY SHEETS NO.

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 2015-0678R
 COOK
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 17

 CONTRACT NO. 62849

 ILLINOIS FEG. AID PROJECT



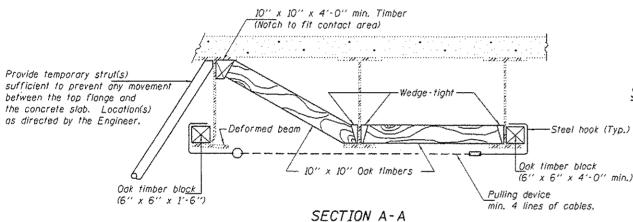
PULLING DEVICE

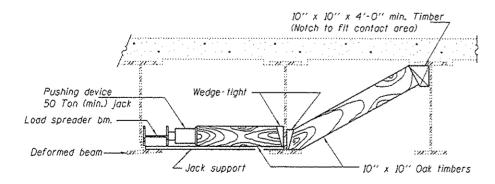
#### PARTIAL PLANS

#### PUSHING DEVICE

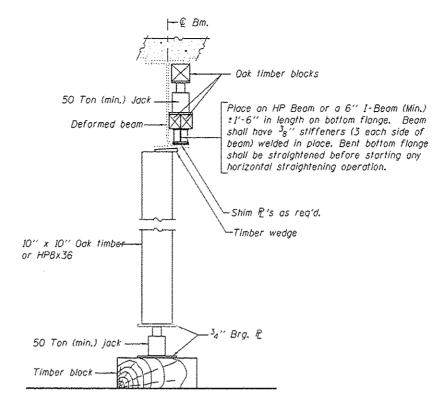
### SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



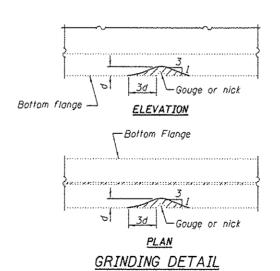


SECTION B-B

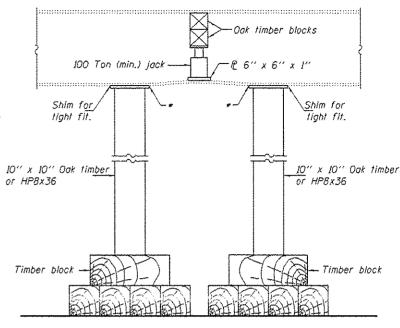


### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately  $^{1}_{4}$ " deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam, Cost of grinding, testing and spot painting included with Beam Straightening.



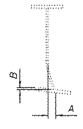
### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

\* Edge of plate shall line up with edge of deformation.

#### Note:

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



### TABLE OF DIMENSIONS

-				
	BEAM	"A"	"B"	"C"
	1	94"	318"	8'-0"
	12	430"	25"	8'-0"

# EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking South)
(Approximate max, deflections)
Deflected length of beam to be
straightened is approximately "C".

DESIGNED	SMR	į.	
CHECKED	CCC		
DRAWN	Steffen	PASSED	A Carl Lancer
CHECKED	SMB CCC	į.	A CON /ANY

REP-1 1-14-2005

DATE NOVEMBER 25, 2015

A Carl Program

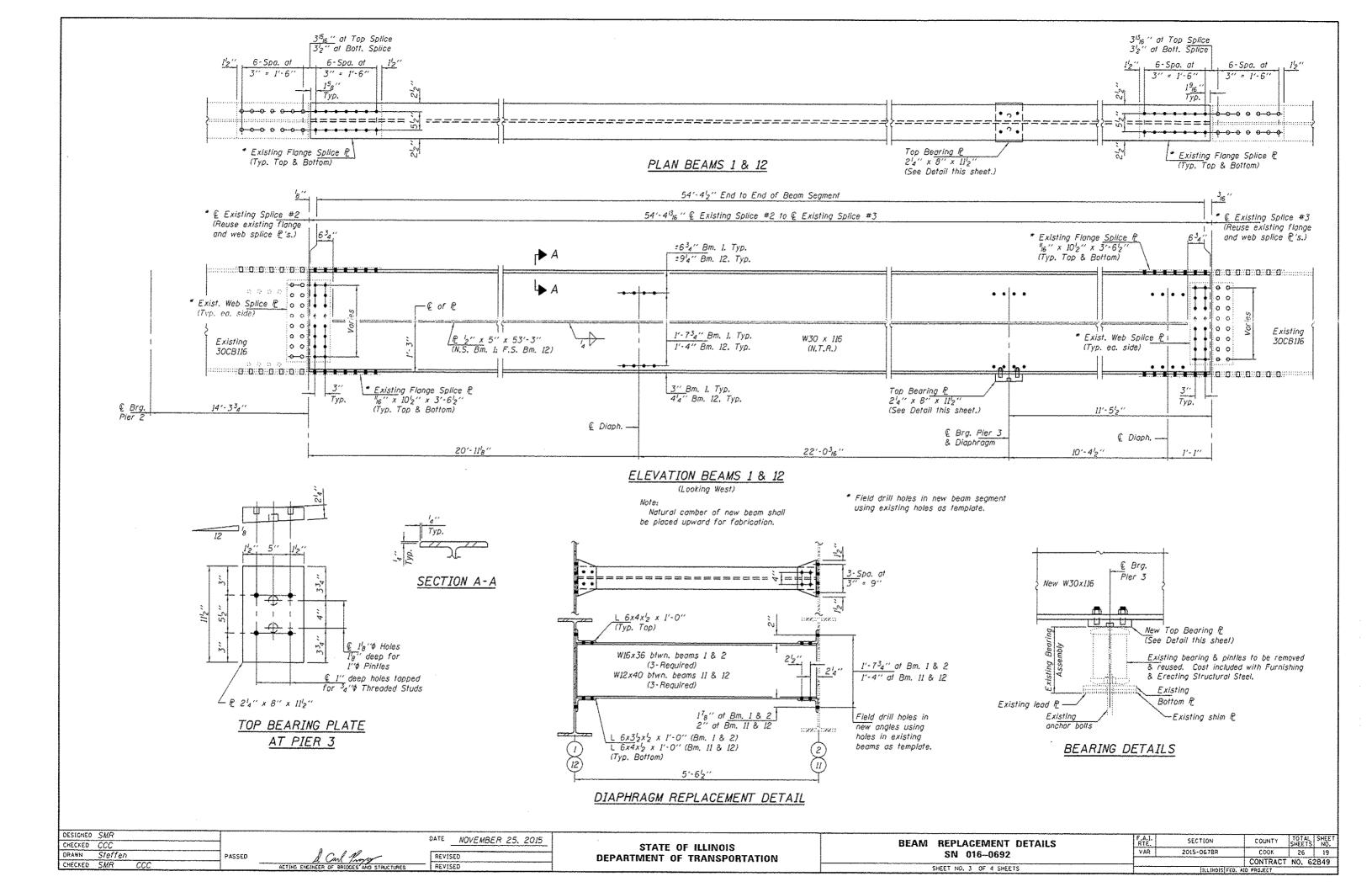
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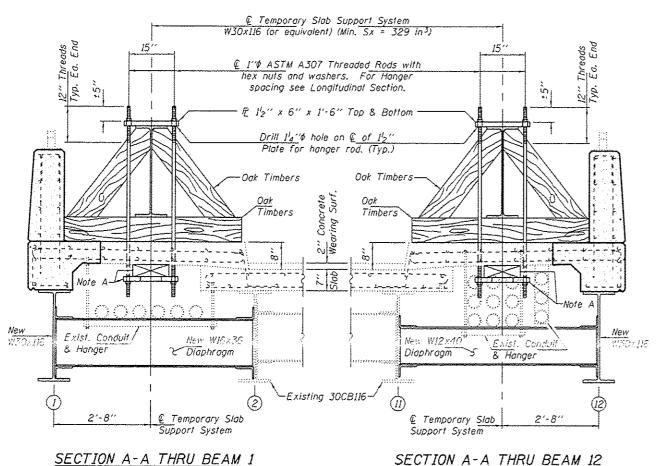
REVISED

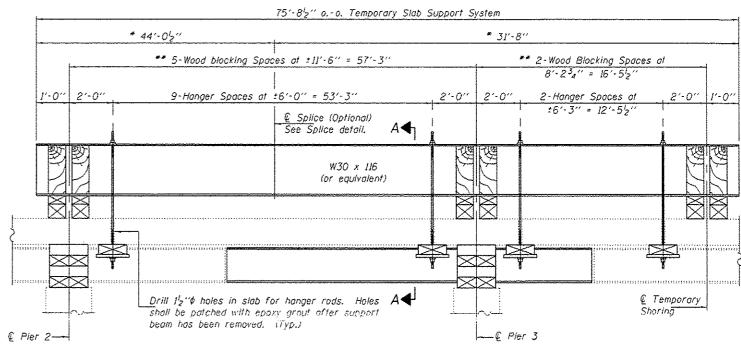
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM STRAIGHTENING DETAILS SN 016-0692 SHEET NO. 2 OF 4 SHEETS



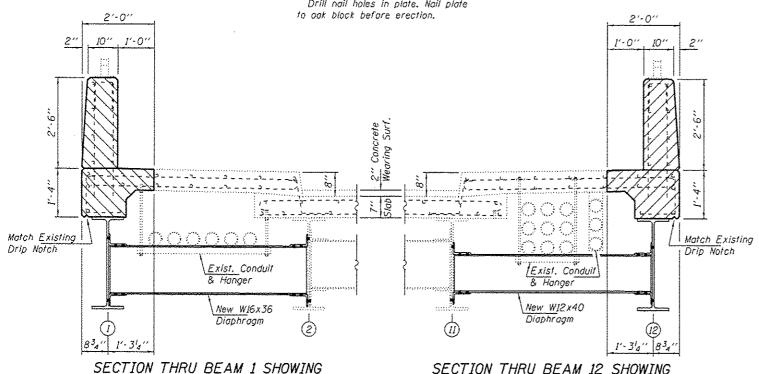




\* These dimensions may vary for available beams in stock. LONGITUDINAL SECTION SUGGESTED TEMPORARY SLAB SUPPORT SYSTEM FOR BEAMS 1 & 12 (Looking West)

\*\* Wood blocking between supports to be placed after support beam deflects under its own weight.

#### (Looking South) (Looking South) Drill nail holes in plate. Nail plate to ook block before erection. 2'-0"



SECTION THRU BEAM 12 SHOWING CONCRETE REMOVAL & REPLACEMENT CONCRETE REMOVAL & REPLACEMENT (Looking South)

Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut  $^34^{\prime\prime}$  prior to the removal of concrete. Reinforcement shall be cut only if required for fitting bolts. Cut reinforcement shall be spliced as directed by the Engineer. Cost shall be included with Concrete Removal.

5'-8" Existing Base R ±3'-2" 2'-5" **€** Existing **€** Existing Fence Post Splice ,- Ó

CONCRETE SURFACE REMOVAL AND REPLACEMENT

(West Parapet shown at & Splices: East Parapet similar by 180° rotation.)

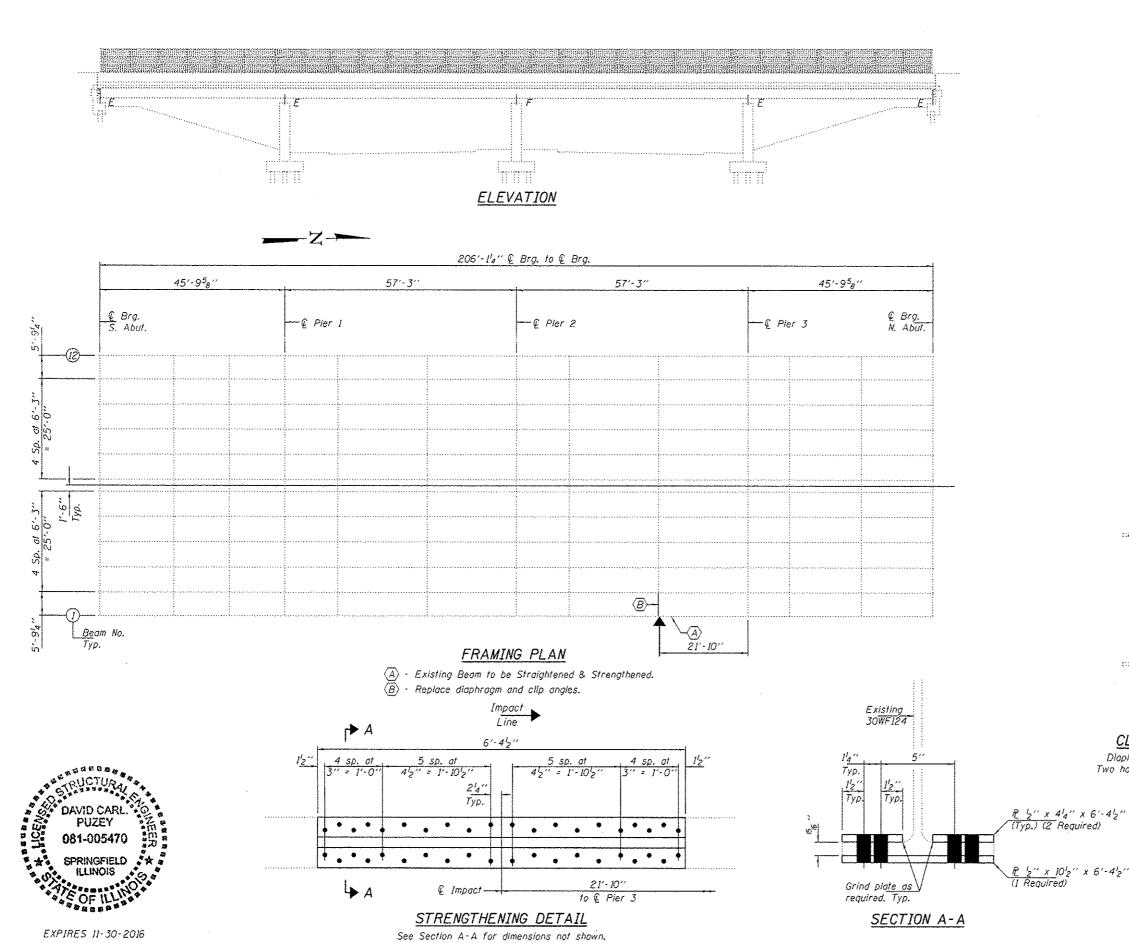
DESIGNED SMR CHECKED CCC ORAWN Steffen PASSED CHECKED SMR

(Looking South)

DATE NOVEMBER 25, 2015 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  **TEMPORARY SLAB SUPPORT & CONCRETE DETAILS** SN 016-0692 SHEET NO. 4 OF 4 SHEETS

TOTAL SHEET SHEETS NO. 26 20 SECTION COUNTY COOK 2015-067BR CONTRACT NO. 62849



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#### GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

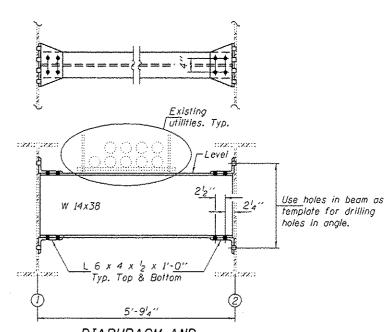
Fasteners shall be high strength bolts. Bolts  $^{7}_{8}$  " $\phi$ , open holes  $^{6}_{16}$  " $\phi$ , unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work,

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel-Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Structural Steel Repair.



### <u>DIAPHRAGM AND</u> CLIP ANGLE REPLACEMENT DETAIL

Diaphragm connection holes shall be  $^{16}16$  " $^{16}$  for  $^{3}4$ " $^{4}$  bolts. Two hardened washers shall be required at diaphragm connections.

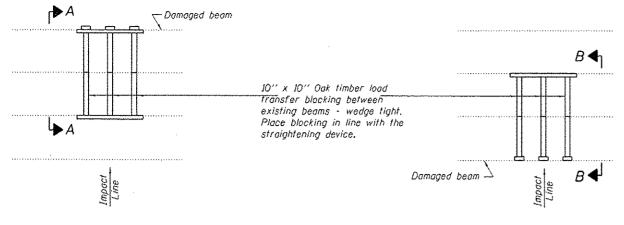
### TOTAL BILL OF MATERIAL

ITEM	UNIT	OUANTITY
Structural Steel Repair	Pound	540
Beam Straightening	L.S.	0.2
Structural Steel Removal	Pound	280

PREVISED NOVEMBER 23, 2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION 1ST. AVE. OVER FAI 290 SN 016-0699 F.A.I. SECTION COUNTY TOTAL SHEET NO. 100 COUNTY SHEETS NO. 100 CO



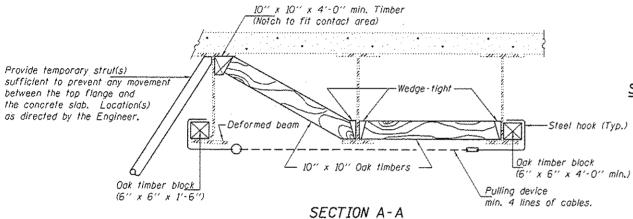
PULLING DEVICE

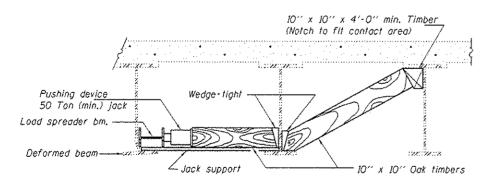
### PARTIAL PLANS

### PUSHING DEVICE

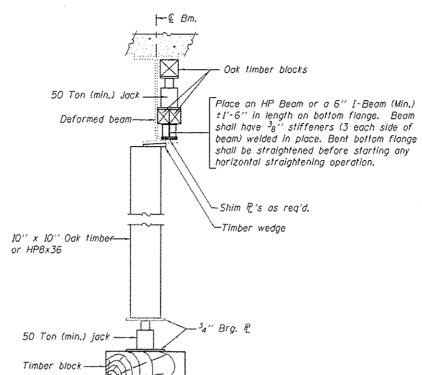
### SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.



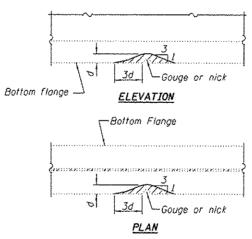


SECTION B-B



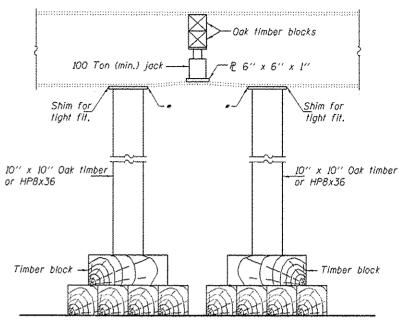
### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



## GRINDING DETAIL

Grind existing nicks, gauges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately '4'' deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



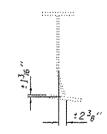
### SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

\* Edge of plate shall line up with edge of deformation.

#### Note:

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.

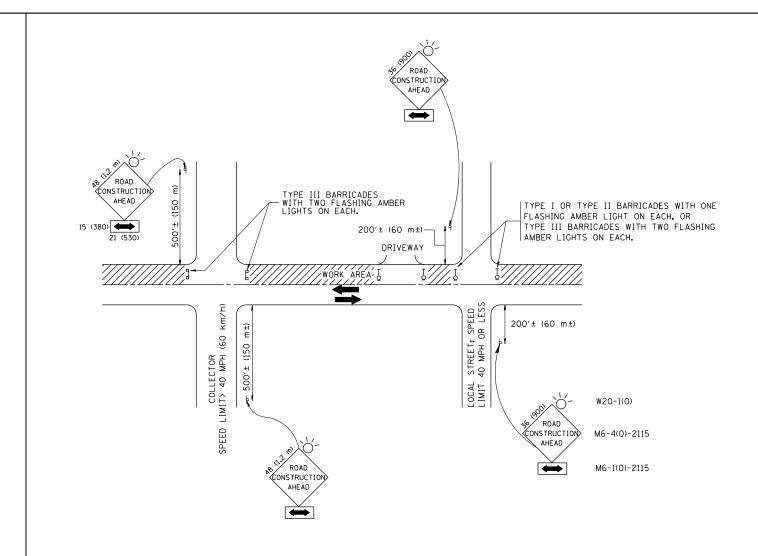


# EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking South)

(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 4'-0".

REP-11-14-2005			·					
DESIGNED SMR CHECKED CCC	DATE NOVEMBER 23, 2015	STATE OF ILLINOIS	BEAM STRAIGHTENING DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
DRAWN DOILO PASSED & Cont Program	REVISED	DEPARTMENT OF TRANSPORTATION	SN 016-0699	VAR,	2015-067BR	CONTRAC	26 T NO 6'	22
CHECKED SMR CCC ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED.	AID PROJECT	1101 02	·~ · · ·



#### TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN  $36 \times 36 \ (900 \times 900)$  WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
  AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

#### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

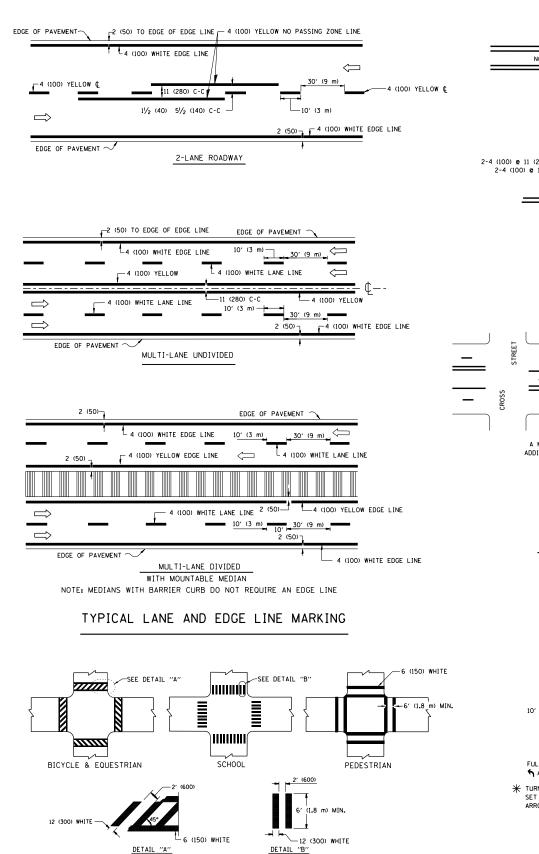
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

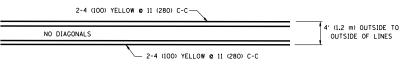
All dimensions are in millimeters (inches) unless otherwise shown.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

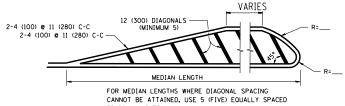
	TRAFFIC SIDE ROADS		OL AND P		
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.



TYPICAL CROSSWALK MARKING

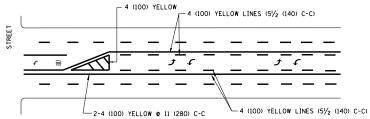


#### 4' (1.2 m) WIDE MEDIANS ONLY

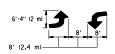


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

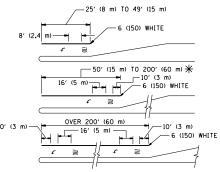


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING

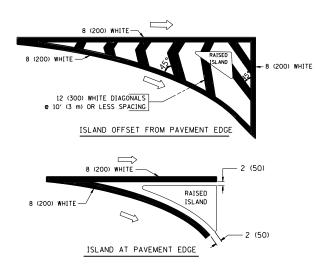


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m² )  $\P$  AREA = 20.8 SO. FT. (1.9 m²)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

## TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

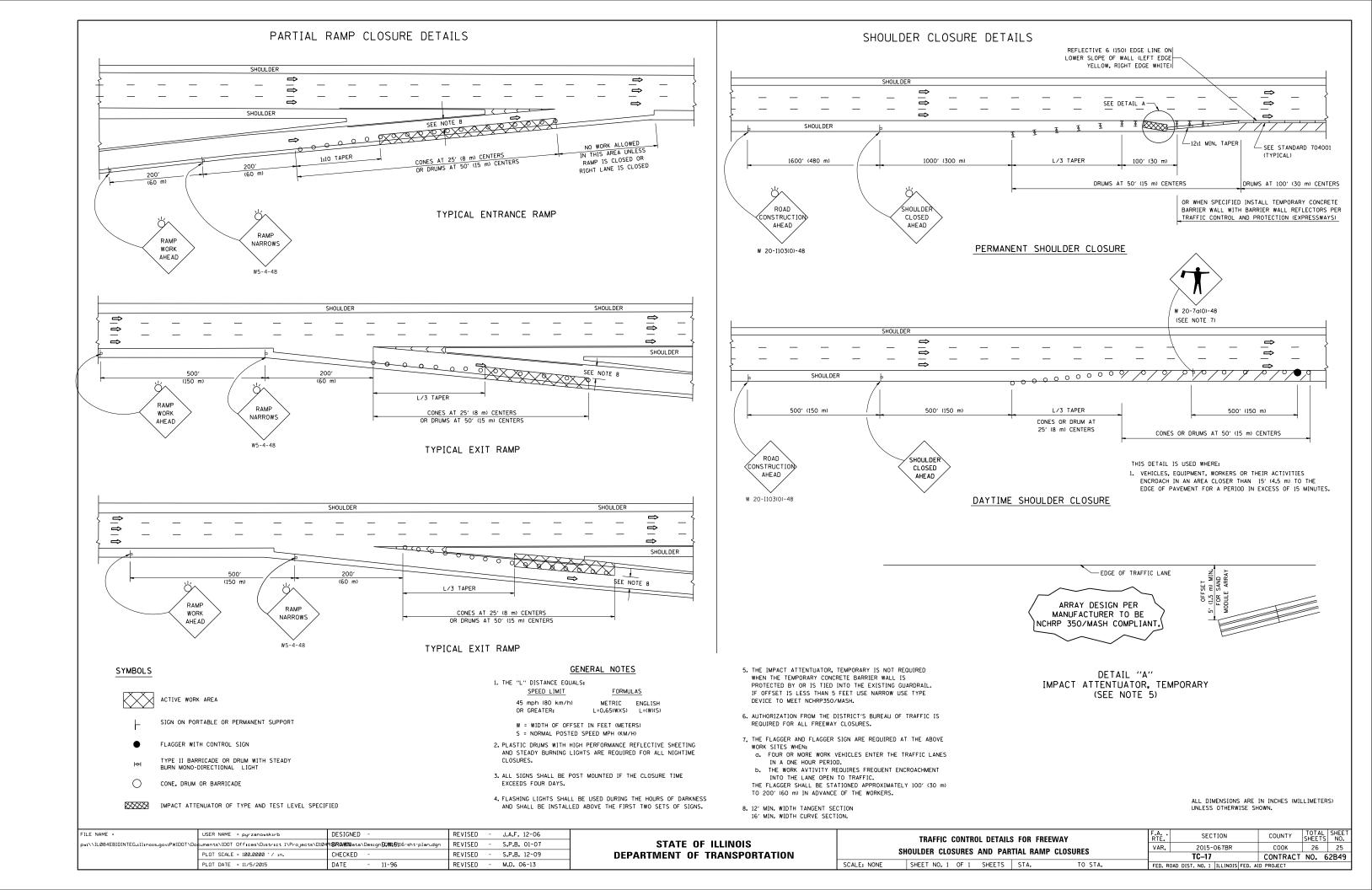
	1	Ι	T	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/ <sub>2</sub> (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0,33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>@</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

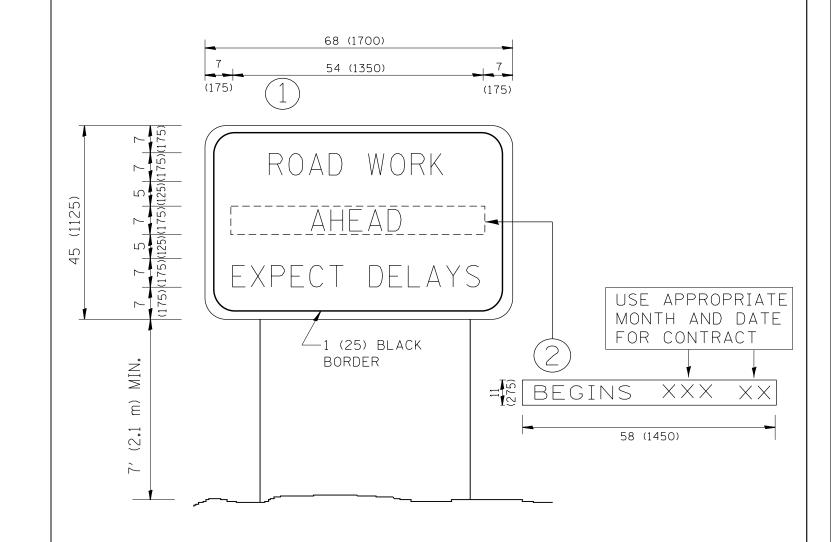
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

TYPICAL	TURN	LANE	MARKI	

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A	SECTION	COUNTY S	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.ıllınoıs.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D104	491 <b>BRAWIN</b> ata\Design\D104916-sht-plan.dgn	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS		VAR.	2015-067BR	соок	26 24
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS		TC-13	CONTRACT N	NO. 62B49
	PLOT DATE = 11/5/2015	DATE - 03-19-90	REVISED -		SCALE: NONE   SHEET NO. 1 OF 1 SHEETS   STA. TO STA.	FED. ROAD	DIST. NO. 1 THE INDIS FED. A	AID PROJECT	





## NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED	- R. MIRS 09-15-97			ARTERIAL ROAD		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\ILØ84EBIDINTEG.:111:no:s.gov:PWIDOT\Doc	•		REVISED	- R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN  SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			VAR.	2015-067BR	соок	26	26
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	KENIZED	-T. RAMMACHER 02-02-99	DEFAITIVE OF THAILOR OF TATION				_	TC-22	CONTRACT	NO. 6	.B49
	PLOT DATE = 11/5/2015	DATE -	REVISED	- C. JUCIUS 01-31-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID F		D PROJECT		