01-15-2016 LETTING ITEM 062

## STATE OF ILLINOIS

# DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGES OF PALOS HEIGHTS AND WORTH

#### TRAFFIC DATA

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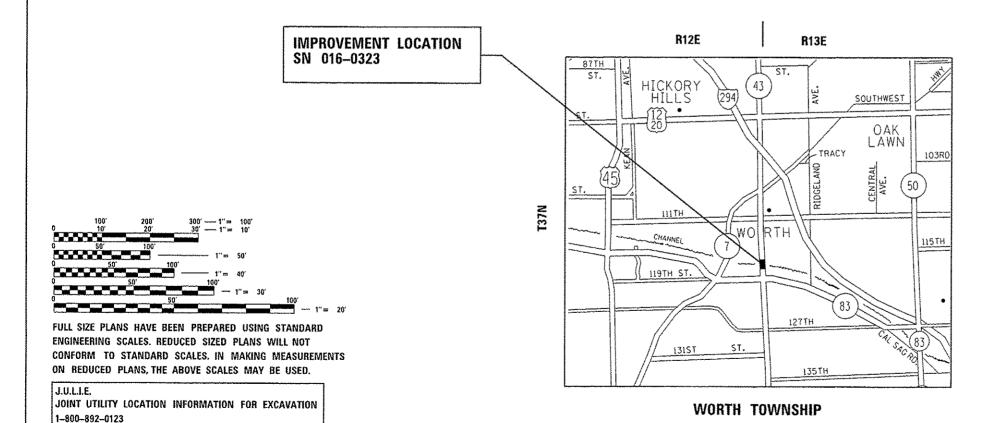
2013 ADT (HARLEM AVE): 36,300

SPEED LIMIT: 35 MPH

# PROPOSED HIGHWAY PLANS

FAP ROUTE 348: IL 43 (HARLEM AVENUE)
OVER CAL SAG CHANNEL (SN 016-0323)
SECTION: 1515.3BR-1
BRIDGE PAINTING, BRIDGE REPAIRS
COOK COUNTY

C-91-025-16



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

GROSS LENGTH = 302.75 FT. = 0.057 MILE NET LENGTH = 302.75 FT. = 0.057 MILE

CONTRACT NO. 62B39

OR 811

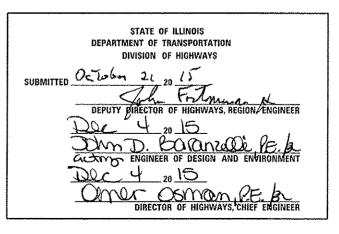
F.A.P SECTION COUNTY TOTAL SHEET NO.

348 1515.3BR-1 COOK 13 1

| ILLINOIS CONTRACT NO. 62B39

#### D-91-025-16





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### INDEX OF SHEETS

- . COVER SHEET
- INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
- S. SUMMARY OF QUANTITIES
- 4-11 BRIDGE REPAIR DETAILS \_ S.N. 016-0323
- 12 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
- 13 ARTERIAL ROAD INFORMATION SIGN (TC-22)

#### STATE STANDARDS

701101-04 OFF-RD OPERATIONS, MULTILANE, 15' TO 24: FROM PAVEMENT EDGE

701601-09 URBAN LANE CLOSURE, MULTI LANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE

701901-04 TRAFFIC CONTROL DEVICES

#### **GENERAL PAINT NOTES:**

- 1. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL STRUCTURAL STEEL AT THE LOCATIONS SHOWN IN THE PLANS AND WITHIN THE LIMITS SHOWN ON SHEET 4 OF 8 SHALL BE CLEANED PER COMMERCIAL GRADE POWER TOOL CLEANING SSPC SP15.
- 2. THE DESIGNATED AREAS CLEANED PER COMMERCIAL GRADE POWER TOOL CLEANING SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 02/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1.
- 3. A MINIMUM OF ONE (1) AIR MONITOR WILL BE REQUIRED TO MONITOR ABRASIVE OPERATIONS FOR ALL STRUCTURES. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE"
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND PRESERVE THE EXISTING BRIDGE LIGHTING AT ANY LOCATION THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.

#### **GENERAL NOTES**

- 1. 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 UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF PALOS HEIGHTS AND WORTH.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 6. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT
- 8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 9.THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL FOR ANY WORK THAT MAY INTERFERE WITH NAVIGATIONAL OPERATIONS OF THE NAVIGABLE WATERS. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL.

Locations downstream (South) of 16th St Bridge in Lockport, IL:

BRIDGE ADMINISTRATOR US COAST GUARD EIGHTH COAST GUARD DISTRICT 1222 SPRUCE ST ST. LOUIS, MO 63103-2832

Roger Wiebesch (314)269-2378

TO STA.

- 10. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.
- 11. 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 OUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK,
- 12. SIDEWALK ON ONE SIDE OF THE BRIDGE SHALL REMAIN OPEN WHEN WORK IS BEING PERFORMED ON THE OPPOSITE SIDE OF THE STRUCTURE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 43 (HARLEM AVE) OVER CAL SAG CHANNEL (SN 016-0323) INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

SHEET 1 OF 1 SHEETS STA.

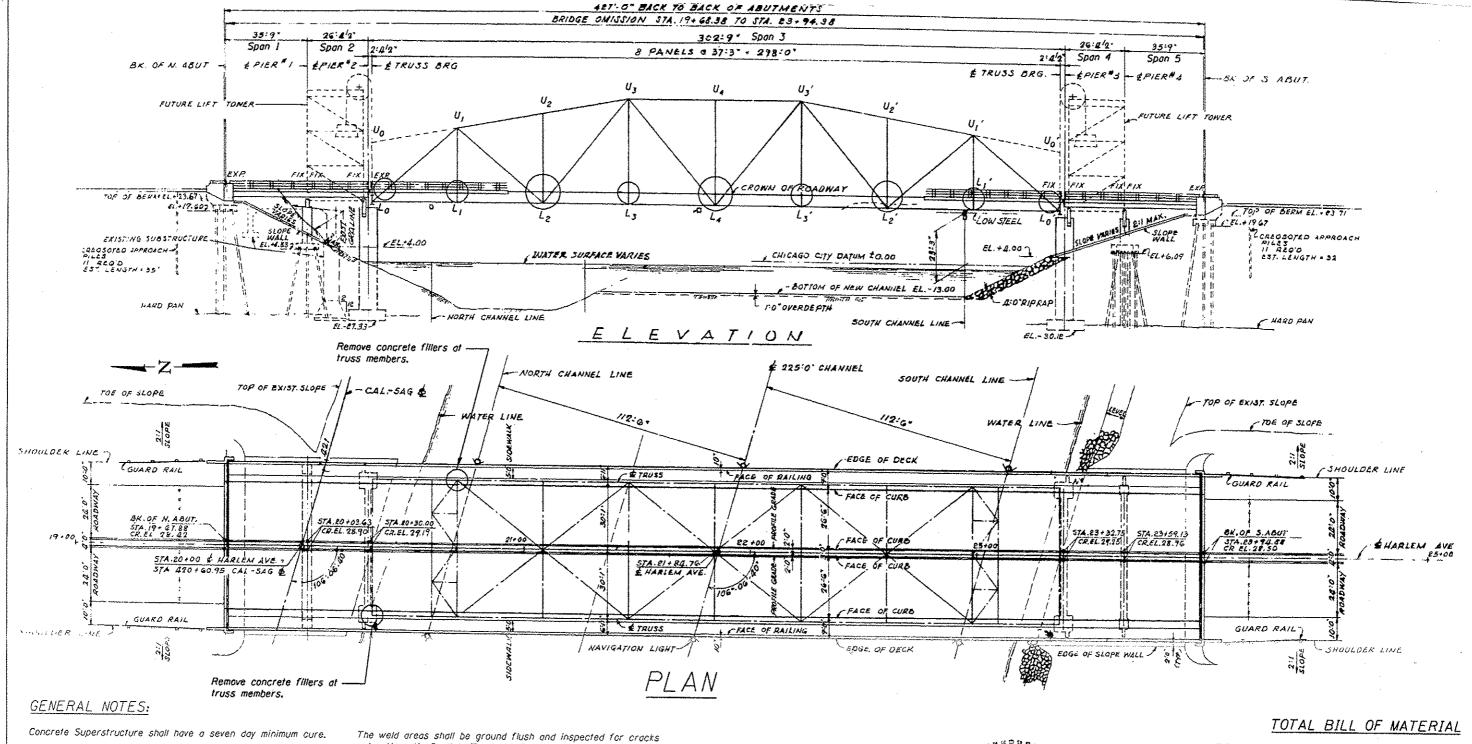
 
 F.A.P RTE.
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 CONTRACT NO.
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Reinforcement Bars designated (E) shall be Epoxy Coated.

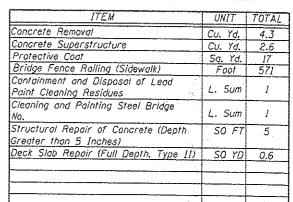
Prior to pouring the new concrete deck. all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise. The existing structural steel coating contains lead. The Contractor 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.

As directed by the Engineer, existing construction accessories welded to the Truss members within the concrete fillers shall be removed.

using Magnetic Particle Testing (MT) or Dye Penetrant Testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 Of The Standard Specifications.

shall take appropriate precautions to deal with the presence of lead on this project.

Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to "Concrete Removal".



DESIGNED -SAM EXAMINED DATE -CHECKED -SHR ACTING ENGINEER OF STRUCTURAL SERVICES DRAWN PASSED REVISED CHECKED REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 43 (HARLEM AVE) OVER CALUMET SAG CHANNEL (SN 016-0323) GENERAL PLAN AND ELEVATION

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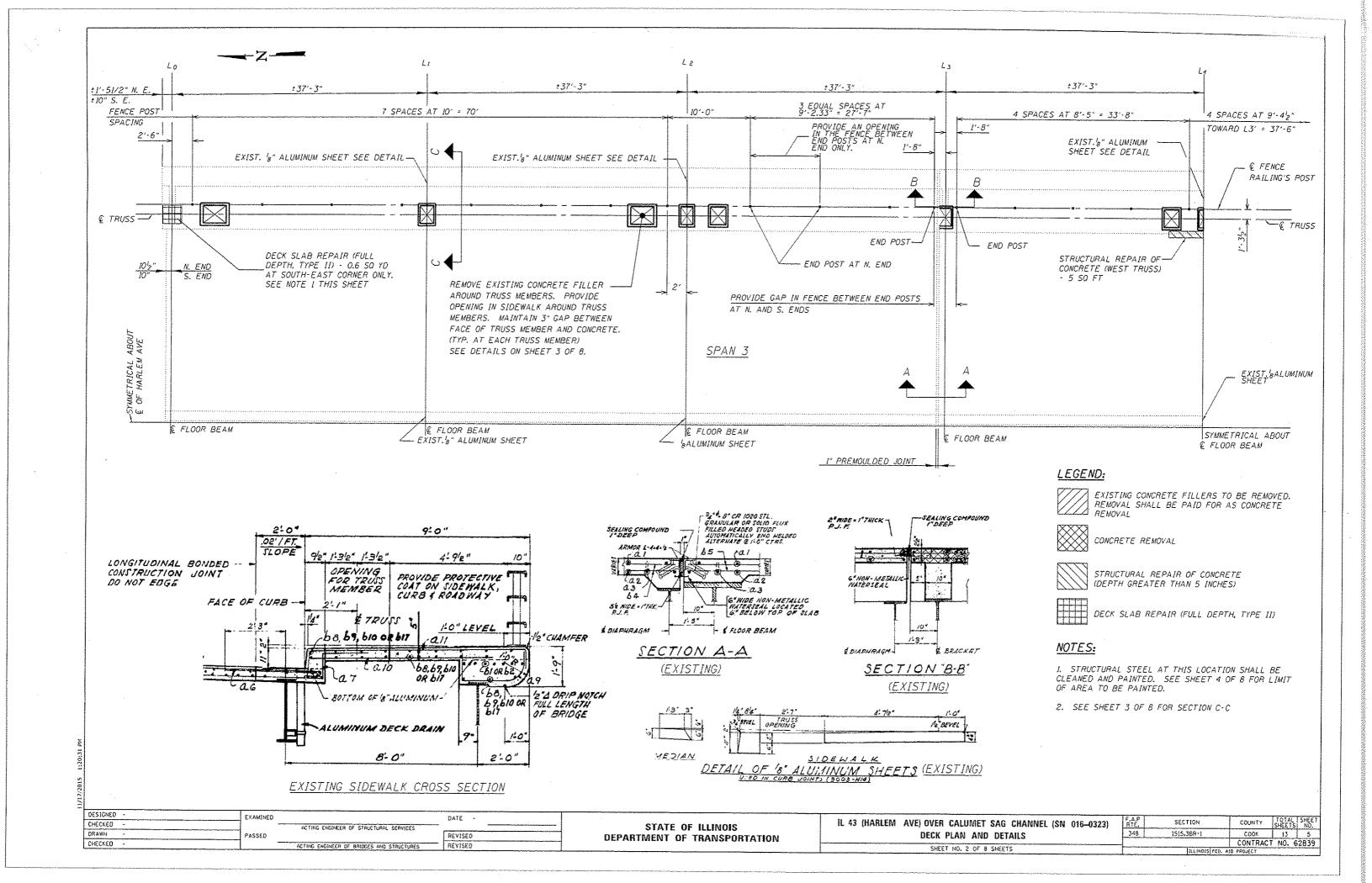
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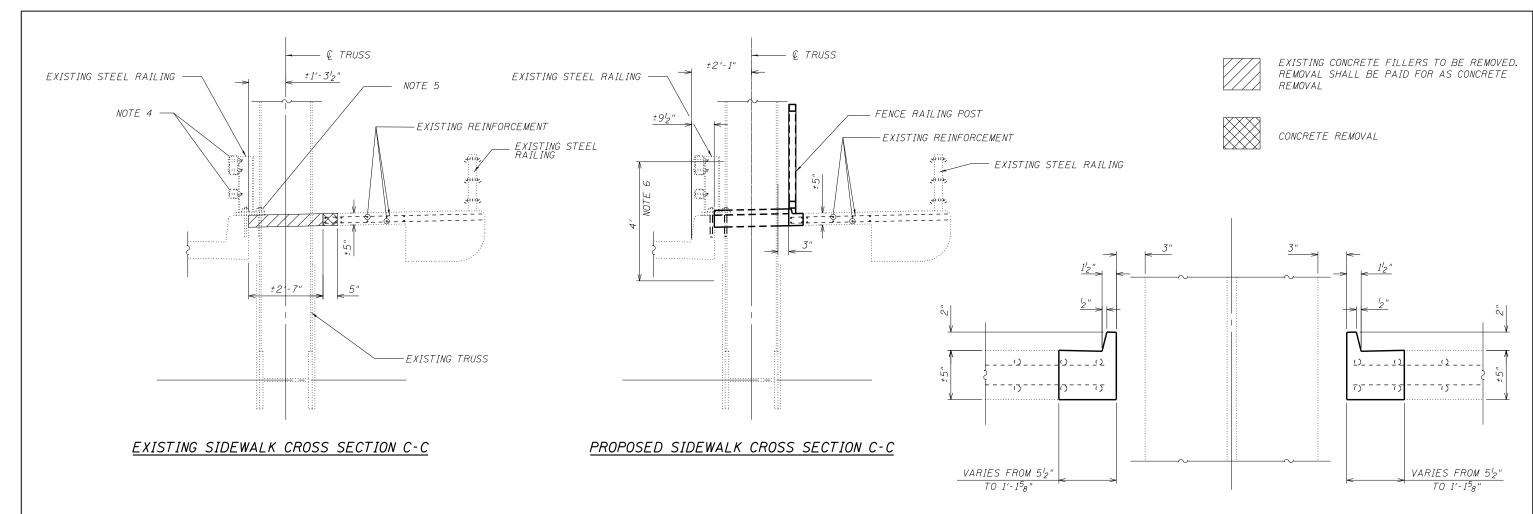
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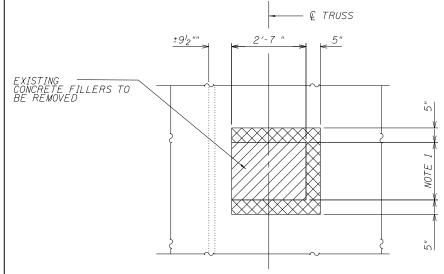
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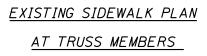
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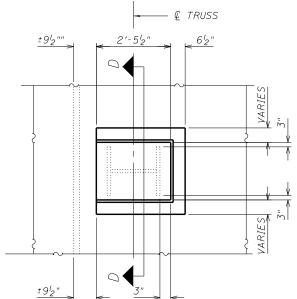
SECTION 348 COOK 13 4 CONTRACT NO. 62839











PROPOSED SIDEWALK PLAN
AT TRUSS MEMBERS

#### SECTION D-D

#### NOTES:

I. EXISTING CONCRETE FILLERS AT TRUSS MEMBERS
TO BE REMOVED. SEE SHEET 6 OF 8 FOR FILLER DIMENSIONS.

2. EXISTING BARS WELDED TO TRUSS MEMBERS WITHIN CONCRETE FILLERS TO BE REMOVED USING THE AIR-ARC METHOD AND GRIND SMOOTH ALL WELD MATERIAL REMAINING ON THE STEEL TRUSS MEMBERS.

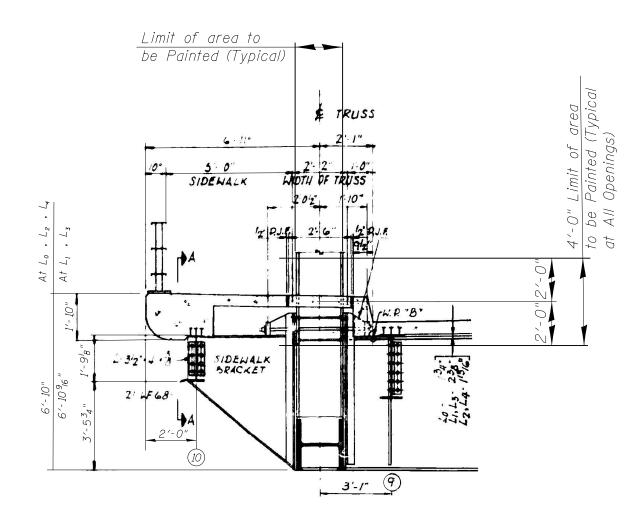
3. PERIMETERS OF CONCRETE REMOVAL AREAS SHALL BE SAW CUT  $^3_4$ " PRIOR TO THE REMOVAL OF THE CONCRETE. EXISTING REINFORCEMNET EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL.

4. DISCONNECT AND RECONNECT EXISTING RAILING AS NEEDED. COST INCLUDED IN CONCRETE REMOVAL.

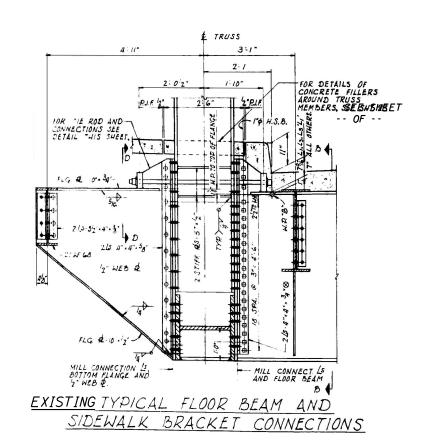
5. REMOVE AND REINSTALL EXISTING BASE PLATE ANCHORS AS NEEDED. COST INCLUDED IN CONCRETE REMOVAL.

6. VERTICAL AND DIAGONAL TRUSS MEMBERS TO BE PAINTED FOR A LIMIT OF 2' ABOVE AND 2' BELOW CENTERLINE OF SIDEWALK.

DESIGNED -	EXAMINED	DATE -		IL 43 (HARLEM AVE) OVER CALUMET SAG CHANNEL (SN 016-0323)	F.A.P RTF.	SECTION	COUNTY	TOTAL SHEET
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EXISTING TYPICAL CROSS SECTION AT FLOOR BEAMS



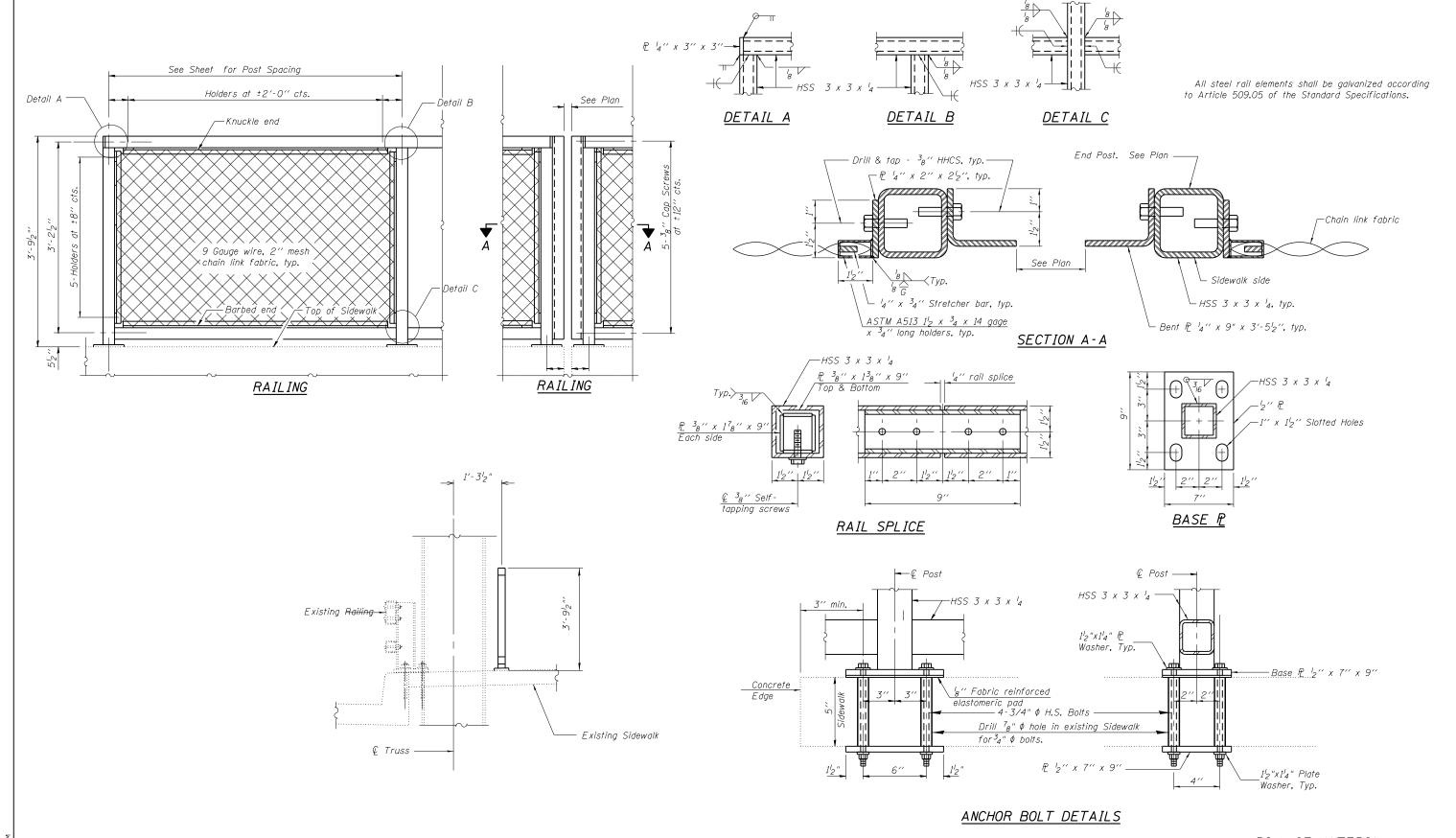
# 2'.0'' 9'-0" .02FT/FT 9/2'\['.3\/2"\] -3\/2" 4'-9\/2" 10" OPENING SIDEWALK FOR TRUSS WMBER 2'-1" C TRUSS EXIST. STEEL BRIDGE RAIL (STD. 2399)

#### EXISTING SIDEWALK CROSS SECTION

Item	Unit	Quantity
Concrete Removal	CU YD	4.3
Concrete Superstructure	CU YD	2.6
Protective Coat	SQ YD	17
Structural Repair of Concrete (Depth Greater than 5 Inches)	SQ FT	5
Deck Slab Repair (Full Depth, Type II)	SQ YD	0.6

BILL OF MATERIAL

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[	DESIGNED -	EXAMINED		DATE -		IL 43 (HARLEM AVE) OVER CALUMET SAG CHANNEL (SN 016-0323)	F.A.P	SECTION	COUNTY	TOTAL S	HEET
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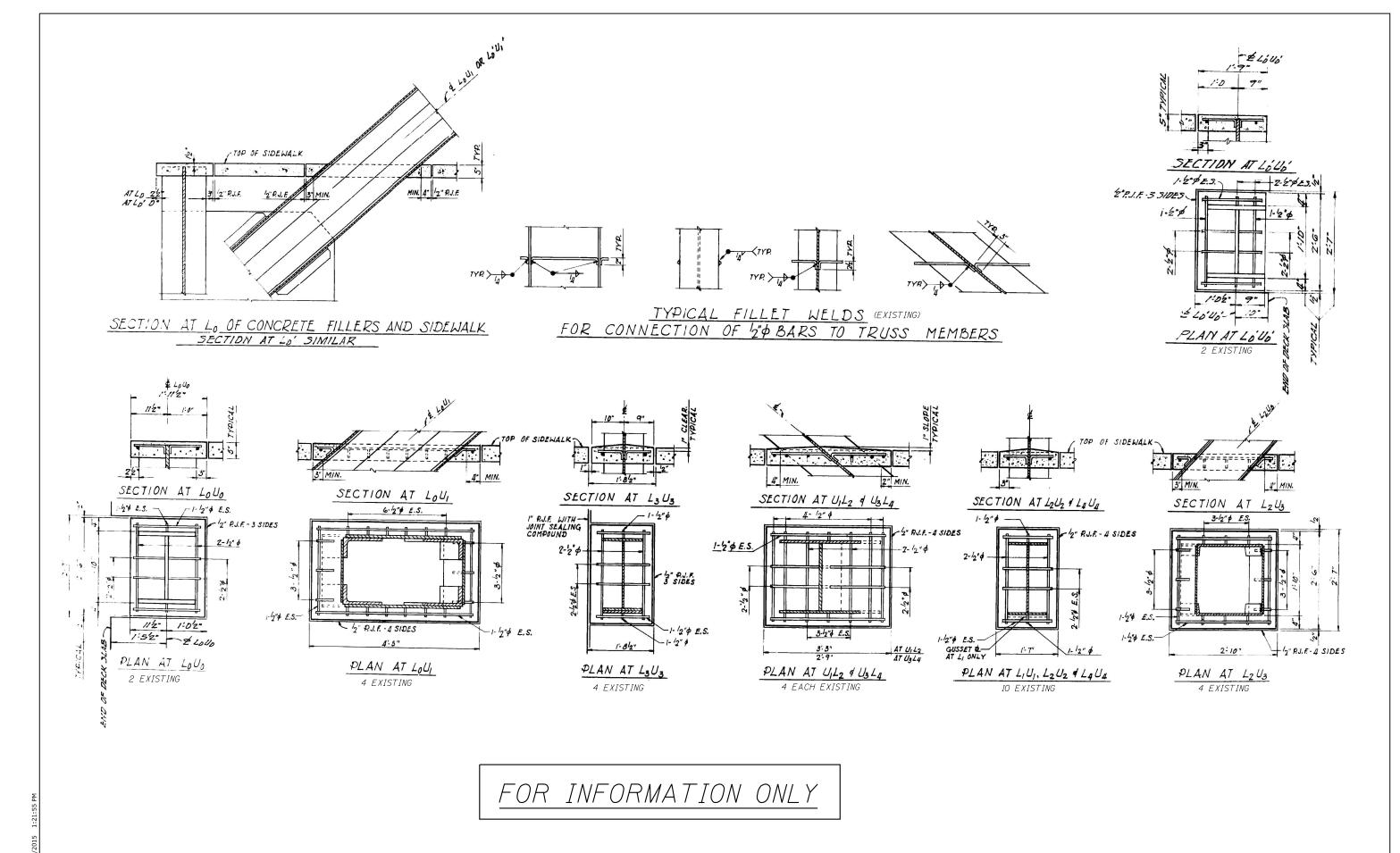
(10'-0'' Maximum Post Spacing. Posts shall be placed between truss members's sidewalk openings)

#### <u>BILL OF MATERIAL</u>

		Itei	n	Unit	Quantity	
Bridge	Fence	Railing	(Sidewalk)	Foot	571	

#### R-29 (MODIFIED)

DESIGNED -	EXAMINED	DATE -		IL 43 (HARLEM AVE) OVER CALUMET SAG CHANNEL (SN 016-0323)	F.A.P SECTION	COUNTY SHEET
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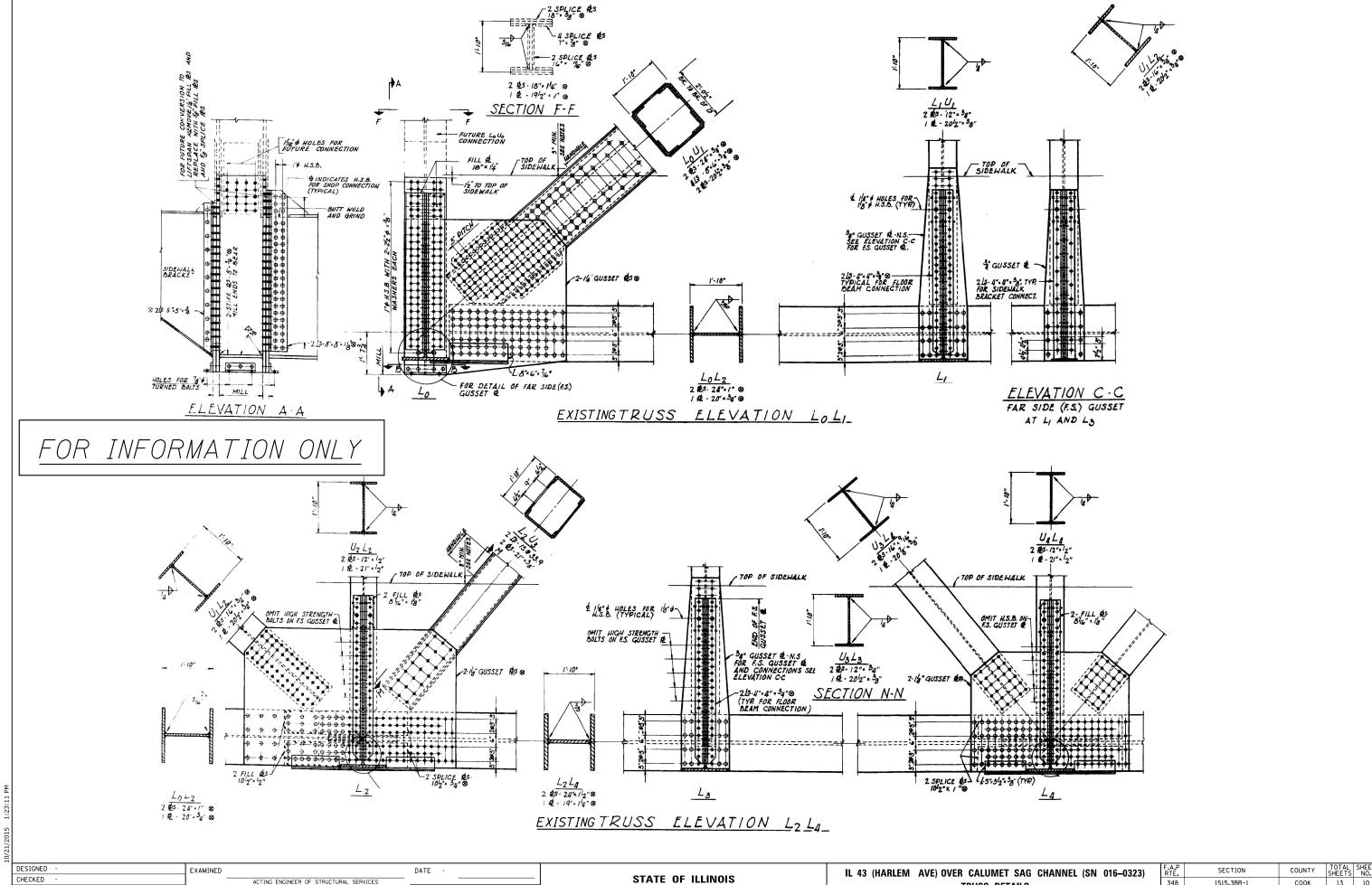
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE

REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 43 (HARLEM AVE) OVER CALUMET SAG CHANNEL (SN 016-0323)
CONCRETE FILLERS AROUND TRUSS MEMBERS

SHEET NO. 6 OF 8 SHEETS



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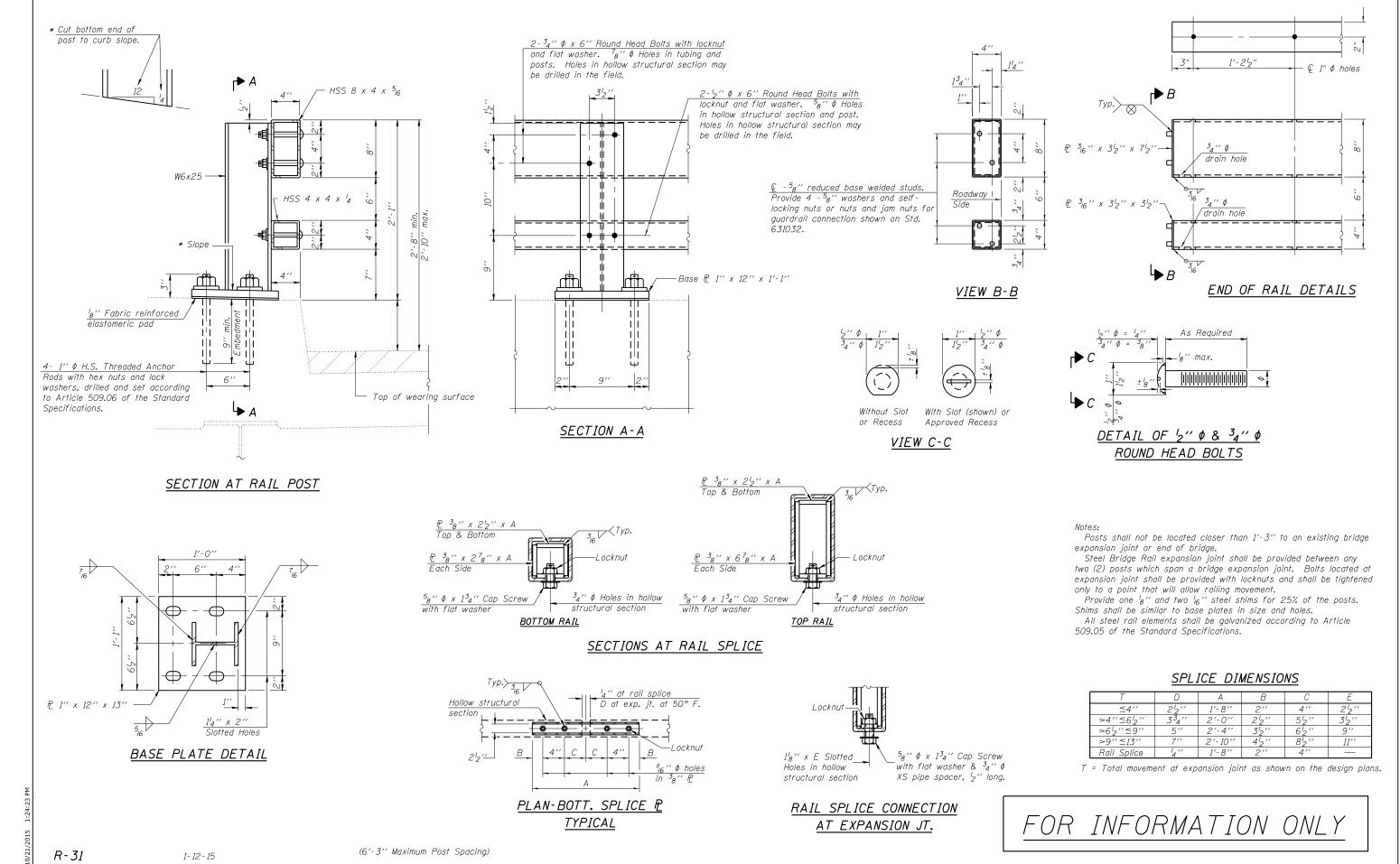
**DEPARTMENT OF TRANSPORTATION** 

348 TRUSS DETAILS SHEET NO. 7 OF 8 SHEETS

 
 COUNTY
 TOTAL SHEETS NO.

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 CONTRACT NO. 62B39
 1515.3BR-1



SECTION

1515.3BR-1

348

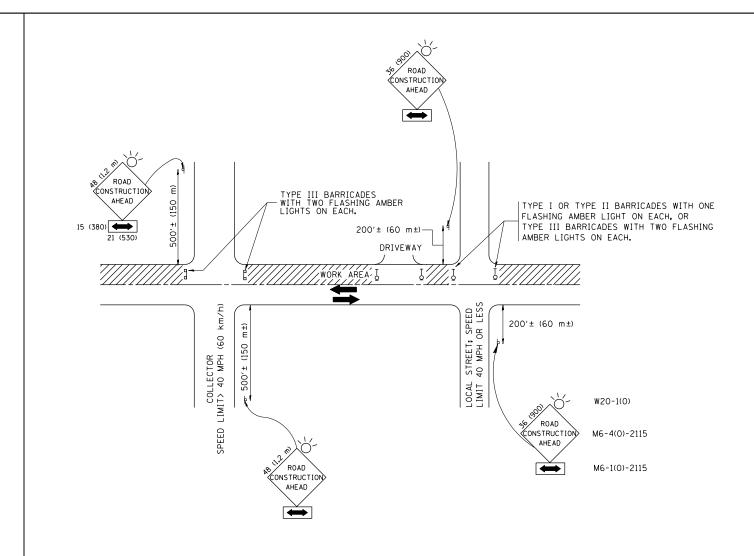
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CONTRACT NO. 62B39

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

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. 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:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) 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.
- 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.

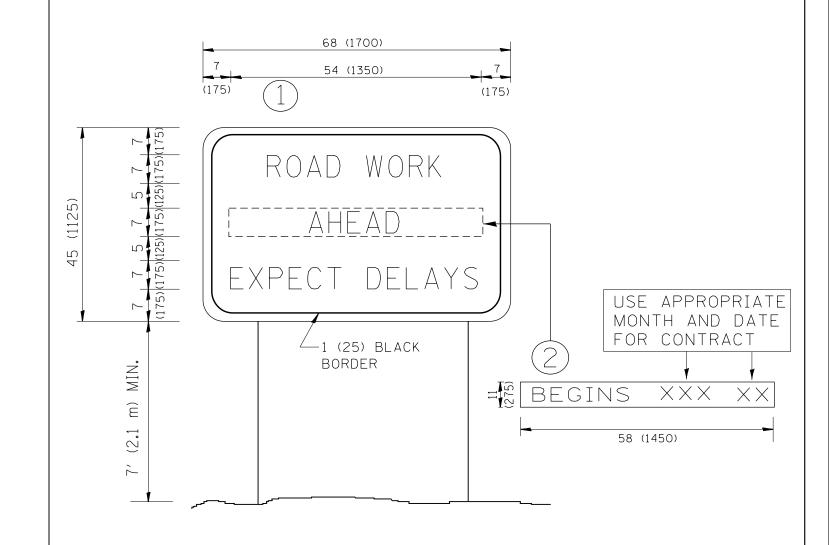
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D102	516R0AWD0ata\Design\DistStd.dgn	REVISED	-	A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	-	A. HOUSEH 10-15-96
	PLOT DATE = 10/21/2015	DATE - 06-89	REVISED	- T	. RAMMACHER 01-06-00

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	TRAFFIC CONTRO	OL AND P	ROTECTION	N FOR	F.A.P RTE.	SECT	ION
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			348	1515.3	BR-1		
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SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. 1	ILLINOIS



### 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.

Ī	FILE NAME =	USER NAME = dahhanr	DESIGNED -	REVISED - R. MIRS 09-15-9			ARTERIAL RO	AD	F	F.A.P.	SECTION	COUNTY	CHEETS	SHEET
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		PLOT DATE = 10/21/2015	DATE -	REVISED - C. JUCIUS 01-31-		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		FED. ROAD D	DIST. NO. 1   ILLINOIS FED.	AID PROJECT		