CONTRACT NO. 60A60

F.A.P. SECTION 348 0708.2_A-1-2 COUNTY TOTAL SHEETS NO.

D-91-078-06

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP 348: ILL 43 (HARLEM AVE.) **OVER FAI 55 (STEVENSON EXPWY)**

> **BEAM REPLACEMENT COOK COUNTY**

> > SN 016-0316

LOCATION OF **IMPROVEMENT** SN 016-0316

TRAFFIC DATA:

IL 43: 2004 ADT = 43,000 POSTED SPEED LIMIT = 40 MPH 1-55: 2003 ADT = 133,400POSTED SPEED LIMIT = 55 MPH

SECTION: 0708.2 A-I-2

C-91-078-06

R 12 E R 13 E T 38 N T 37 N

STICKNEY TOWNSHIP

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN

THE VILLAGE OF FOREST VIEW

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 60A60

PREPARATION ENGINEER:

F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
348	Q7Q8,2A-1-2	COOK	14	2
STA.		TO STA		
EED BO	AD DIST NO 1 THEM	MIS EED AID	PRO JECT	

INDEX OF SHEETS

INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

STANDARD NO. DESCRIPTION 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701400-02 APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY 701401-03 LANE CLOSURE, FREEWAY/ EXPRESSWAY 701411-03 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH 701446 TWO LANE CLOSURE, FREEWAY/ EXPRESSWAY

TRAFFIC CONTROL DEVICES

TEMPORARY CONCRETE BARRIER

701601 - **04**

701801**-03**

702001-*05*

704001-**02**

STATE STANDARDS

URBAN LANE CLOSURE MULTILANE IW OR 2W WITH NONTRAVERSABLE MEDIAN

LANE CLOSURE, MULTILANE, IW OR 2W CROSSWALK OR SIDEWALK CLOSURE

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE & GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES

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

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

WHEN ARTIFICIAL LIGHT IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHEDFOR STRIPING. EXACT LOCATIOONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 FOR ARTERIALS, AND THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847)705-4455 FOR EXPRESSWAY A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

A MINIMUM OF 10 DAYS BEFORE BEGINNING ANY WORK ON IL 43 (HARLEM AVE.), THE CONTRACTOR SHALL CONTACT DAVE HOVING IN TRAFFIC SIGNALS AT (847) 705-4418. IN ADDITION, THE CONTRACTOR SHALL CONTACT DAVE HOVING A MINIMUM OF ONE DAY IN ADVANCE OF THE FOLLOWING THREE STAGES: THE START OF JOB, THE POURING OF CONCRETE, AND THE COMPLETION OF THE PARAPET WALL.

ALL DAMAGE TO THE EXISTING PAVEMENT MARKINGS OUTSIDE THE CONCRETE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE ENGINEER SHALL CONTACT SCOTT KUZWICKI TRAFFIC FIELD ENGINEER AT (773) 685-8386 TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT EXACT STATIONING OF HO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ESTABLISHED

THE CONTRACTOR SHALL SALVAGE AND RETURN THE EXISTING STEEL CARRIER BEAM (W33%141, 86'-1/2') TO: DISTRICT BRIDGE OFFICE, 1101 BIESTERFIELD RD, ELK GROVE VILLAGE IL 6G007, THIS WORK SHALL INCLUDE REMOVING, TRANSPORTING AND UNLOADING THE EXISTING CARRIER BEAM TO THE MENTIONED YARD WHICH COST IS INCLUDED IN THE COST OF "STRUCTURAL STEEL REMOVAL"

WHEN REMOVING THE EXISTING DAMAGED BEAM, THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO ENSURE THE DECK AND BEAM ARE PROPERLY SUPPORTED DURING THE ENTIRE REMOVAL OPERATION SO AS TO PROTECT THE TRAFFIC AND PAVEMENT ON AND BELOW THE BRIDGE. THE CONTRACTOR SHALL SUBMIT THE REMOVAL SEQUENCE AND PROCEDURE TO THE ENGINEER PRIOR TO REMOVAL OF THE EXIST DECK. DAMAGED BEAM OR CARRIER BEAM. THIS COST IS INCLUDED IN THE COST OF "STRUCTURAL STEEL REMOVAL"

REVISIONS		ILLINOIS DEPART	MENT OF TRANSPORTATION
NAME	DATE	TEETHOIS SEL MICH	
		INDE	K OF SHEETS
		STATE	E STANDARDS
		GEN	ERAL NOTES
		SCALE:	DRAWN BY
		DATE .	CHECKED BY

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SHEET NO.

4-8

12

13

DESCRIPTION

TITLE SHEET

SUMMARY OF QUANTITIES

TRAFFIC STAGING PLANS

BRIDGE REPAIR DETAILS - SN 016-0316

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

CONTRACT NO. 60A60

 F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
348	0708.2_A:1:2	COOK	14	3
FED.	ROAD DIST. NO. 1 ILL	NOIS I	HIGHWAY PRO	JECT

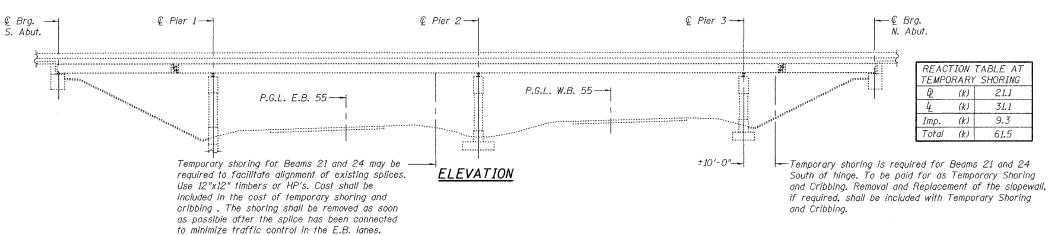
MCHD CLAIM #713941

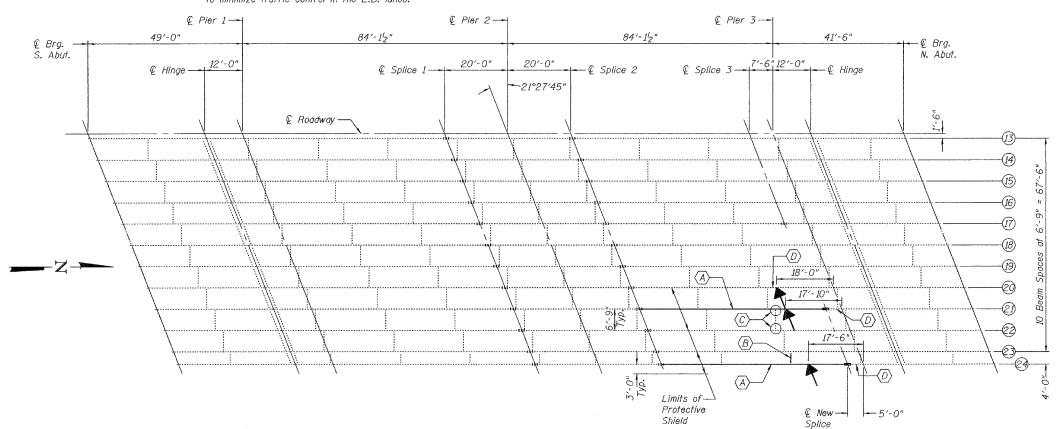
										AT OUANTITIES				CONSTRUCT	ION TYPE CO	DE
	SUMMARY OF QUANTITIES			URBAN	CONS	TRUCTION TY	PE CODE			SUMMARY OF QUANTITIES		TOTAL	URBAN 100%STATE		- Management of the Control of the C	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100%. STATE SFTY-2A					CODE NO	ITEM	TINU	QUANTITIES	SFTY-2A			
									x0321781	MECHANICAL SPLICE	EACH	280	280			
	CONCRETE REMOVAL	CU YD	34. 1	34. 1			-		X0322467	TEMPORARY INFORMATION SIGNING FOR LANE	SO FT	48	48			
0300255	CONCRETE SUPERSTRUCTURE	CU YD	34. 1	34. 1				,		CLOSURE	. 50114	1	1			
300260	BRIDGE DECK GROOVING	SO YD	57	57					X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1				
0300300	PROTECTIVE COAT	SO YD	114	114					Z0003600	BEAM STRAIGHTENING	L SUM	1	1			
0500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20300	20300				6	Z0030240	IMPACT ATTENUATORS, TEMPORARY	EACH	1	1			
0500505	STUD SHEAR CONNECTORS	EACH	392	392						(NON-REDIRECTIVE), TEST LEVEL 2	SO YD	155	155			
	STRUCTURAL STEEL REMOVAL	POUND	19640	19640					Z0047300	PROTECTIVE SHIELD	L SUM	1	1			
	REINFORCEMENT BARS, EPOXY COATED	POUND	6740	6740					20073300	TEMPORARY SHORING AND CRIBBING						
50900905	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	74	74												
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	ı												
67100100	MOBILIZATION	L SUM	1	1												
70102630	TRAFFIC CONTROL AND PROTECTION. STANDARD 701601	L SUM	1	1												
70102640	TRAFFIC CONTROL AND PROTECTION. STANDARD 701801	L SUM	1	t							i,					
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	38	38												
70300520	PAVEMENT MARKING TAPE. TYPE III 4"	F00T	1500	1500												
70300540	PAVEMENT MARKING TAPE. TYPE III 6"	FOOT	200	200												
70400100	TEMPORARY CONCRETE BARRIER	FOOT	110	110												
78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	850	850												
78003150	PREFORMED PLASTIC PAVEMENT MARKING.	FOOT	120	120												
									L	@ SFTY-3N			REVISIONS DATE	ILLINOIS	DEPARTMENT OF	TRANSPORTATION

SUMMARY OF QUANTITIES

PLOT DATE: 10/27/2006

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





PARTIAL FRAMING PLAN



- $\langle A \rangle$ Remove and replace existing beam section.
- $\langle B \rangle$ Remove and replace existing diaphragm.
- $\langle \overline{C} \rangle$ Remove and replace bottom clip angles.
- $\langle \overline{D} \rangle$ Beam Straightening.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	34.1
Concrete Supersructure	Cu. Yd.	34.1
Reinforcement Bars, Epoxy Coated	Pound	6,740
Stud Shear Connectors	Each	392
Furnishing and Erecting Structural Steel	Pound	20,300
Beam Straightening	L.S.	1
Removing and Re-erecting Existing Railing	Foot	74
Protective Shield	Sq. Yd.	<i>1</i> 55
Temporary Shoring and Cribbing	L.S.	1
Mechanical Splice	Each	280
Bridge Deck Grooving	Sq. Yd.	57
Protective Coat	Sq. Yd.	114
Structural Steel Removal	Pound	19,640

Contract Number: 60A60
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 $^{15}_{16}$ " ϕ for $^{7}_{8}$ " ϕ bolts. Web splice holes shall be $^{13}_{16}$ " ϕ for $^{3}_{4}$ " ϕ bolts.

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".

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".

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the 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 in the cost of Furnishing and Erecting Structural Steel.

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the acrylic finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5 YR 3/4. See Special Provision "Cleaning and Palnting New Metal Structures".

The existing structural steel coating contains lead. The Contractor should 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".

Existing reinforcement 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 shall be included with Concrete Removal.

Prior to pouring the new concrete deck, all loose rust, loose mill scale and other loose potentially detrimental foreign material shall be removed from the surfaces of the beams or girders in contact with concrete. The cost of this work will be included in the pay item covering removal of the existing concrete All heavy rust and other tightly adhered potentially detrimental foreign matter shall also be removed from the surfaces of the beams or girders in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04 of the Standard Specifications.

Diaphragm connection holes shall be 15 ₁₆ " ϕ for 3 ₄" ϕ bolts. Two hardened washers shall be required at diaphragm connections.

All construction joints shall be bonded.

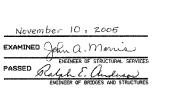
The existing 2" \$\phi\$ and 4" \$\phi\$ conduits shown in Section A-A, on sheet 3 of 5, are to be removed and re-installed. Cost shall be included in the cost of Concrete Removal

Field welding of construction accessories will not be permitted to beams. 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 material except fill plates.

PLAN AND ELEVATION
HARLEM AVE / F.A.I. 55
COOK COUNTY
SN 016-0316

CHECKED SIB. / VHV.

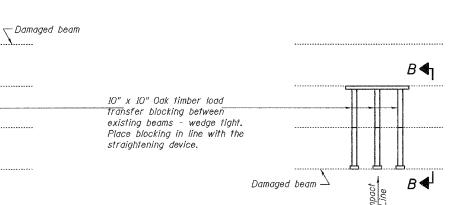
DESIGNED Sol Rhalter





Expires: November 30, 2006

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



PULLING DEVICE

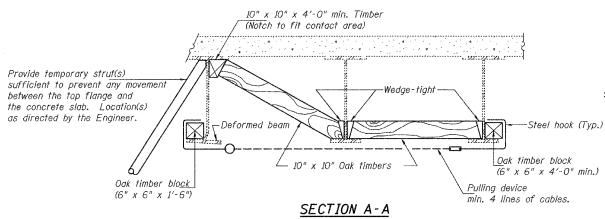
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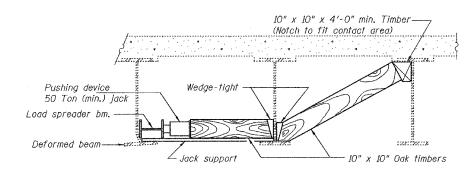
PARTIAL PLANS

<u>PUSHING DEVICE</u>

SUGGESTED BEAM STRAIGHTENING METHODS

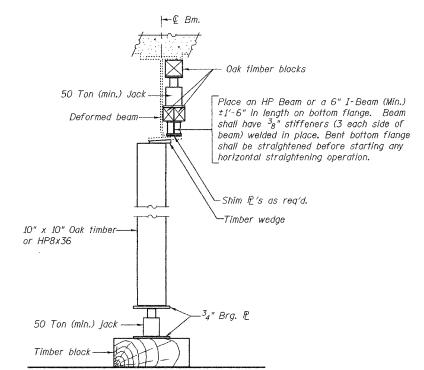
Straightening force shall be maintained on all load transfer blocking during beam straightening.





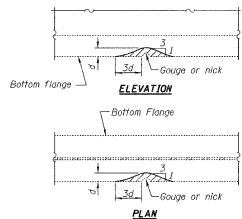
SECTION B-B

DESIGNED S.J.B.	November 9, 2005
CHECKED V.H.V.	EXAMINED John a. Movis
DRAWN Drew Christopher	PASSED Walph E. andersan
CHECKED S.J.B. V.H.V.	enginéer of Bridges and Structures



SUGGESTED VERTICAL STRAIGHTENING DETAIL

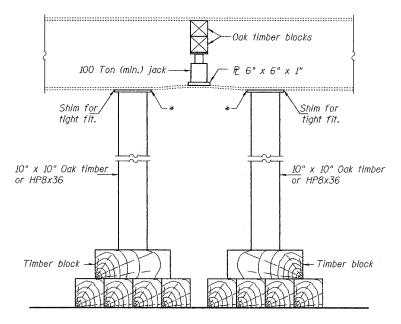
(To correct flange rotation.)



GRINDING DETAIL

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 '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.

Contract Number: 60A60



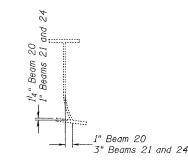
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(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 beams 21 and 24
to be straightened is approximately 5'-0".
Deflected length of beam 20 to be
straightened is approximately 6'-0".

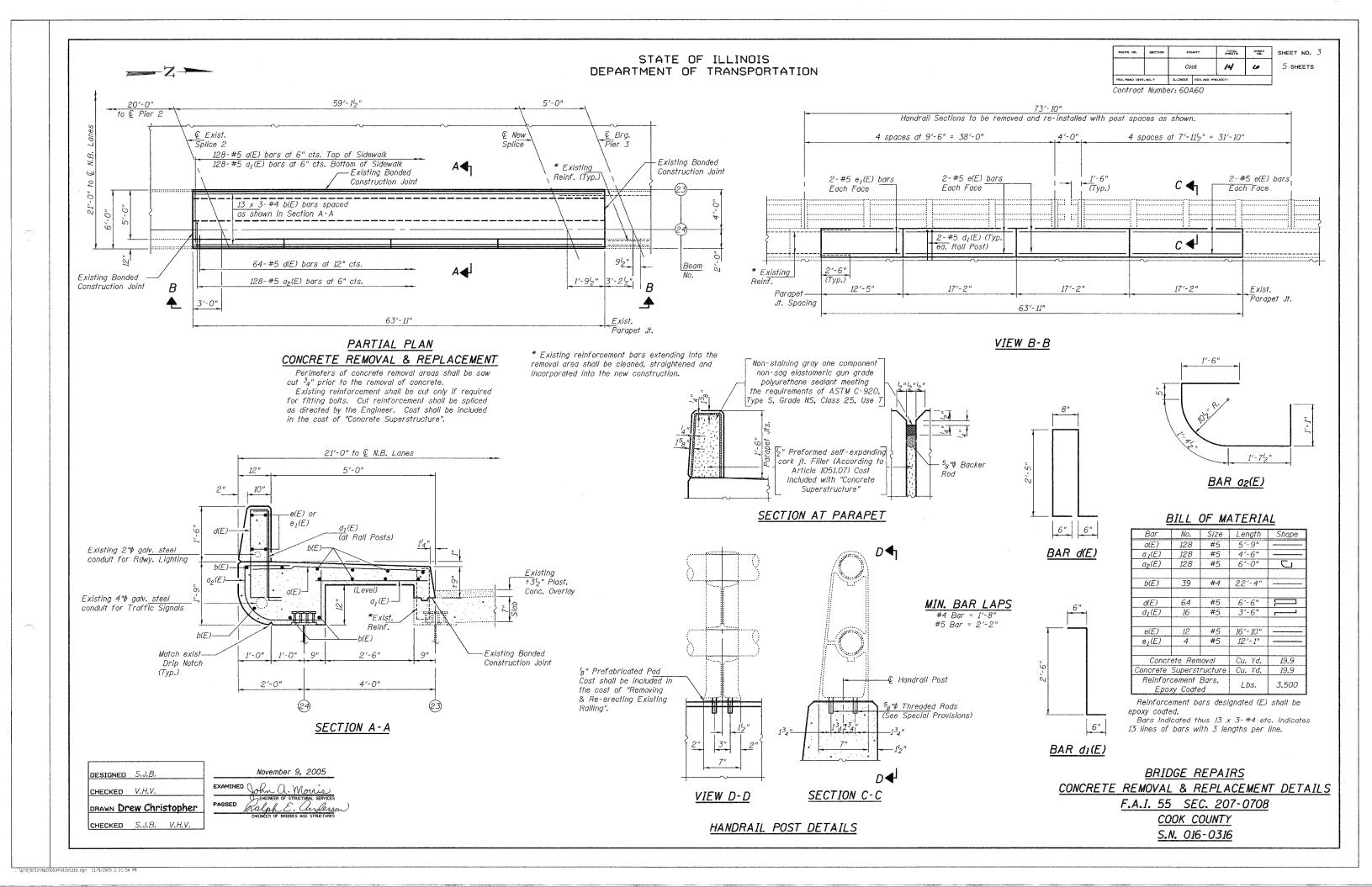
BEAM STRAIGHTENING DETAILS

HARLEM AVE / F.A.I. 55

COOK COUNTY

SN 016-0316

REP-1 1-14-2005



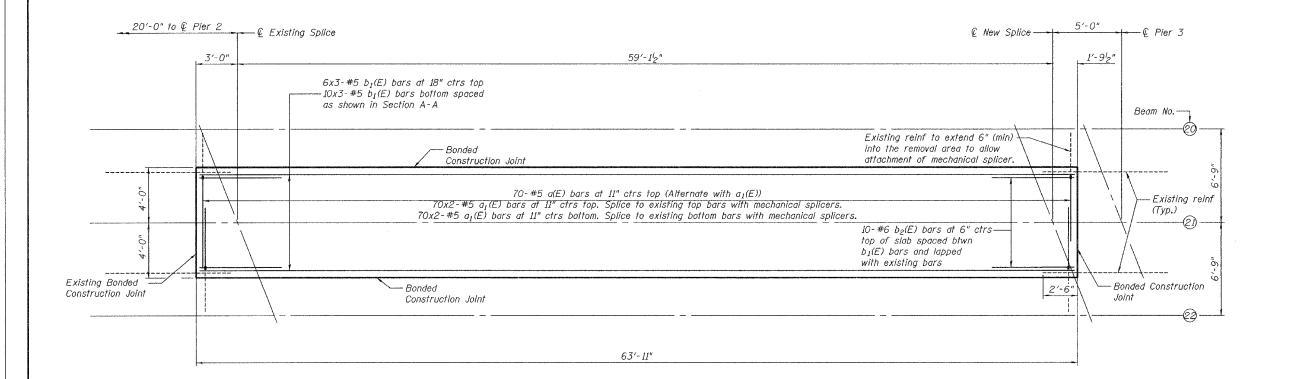
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

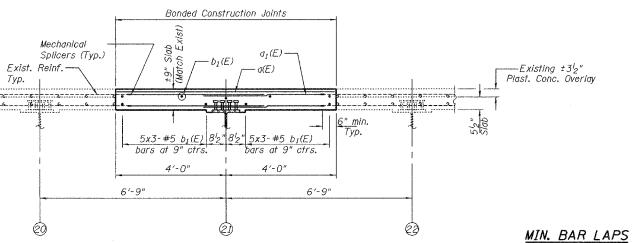
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 Соок
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 5 SHEETS

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 Выдляют Ред. над Ред. над Ред. стр.
 Выстранства

Contract Number: 60A60





BILL OF MATERIAL

_				
Bar	No.	Size	Length	Shape
a(E)	70	#5	7'-7"	
a ₁ (E)	280	#5	5′-0"	
b1(E)	48	#5	22'-9"	
b2(E)	10	#6	5′- <i>11</i> "	
Mechani	ical Spli	cers	Each	280
Concre	te Rem	oval	Cu, Yd.	14.2
Concrete .	Superst	ructure	Cu. Yd.	14.2
Reinford Epox	cement cy Coate	,	Lbs.	3,240

Reinforcement bars designated (E) shall be epoxy coated.

Bars indicated thus 13×3 -#4 etc. indicates 13 lines of bars with 3 lengths per line.

#5 Bar = 2'-2"

13 lines of bars with 3 lengths per line.

DESIGNED S.J.B.

CHECKED V.H.V.

DRAWN Drew Christopher

CHECKED S.J.B. V.H.V.

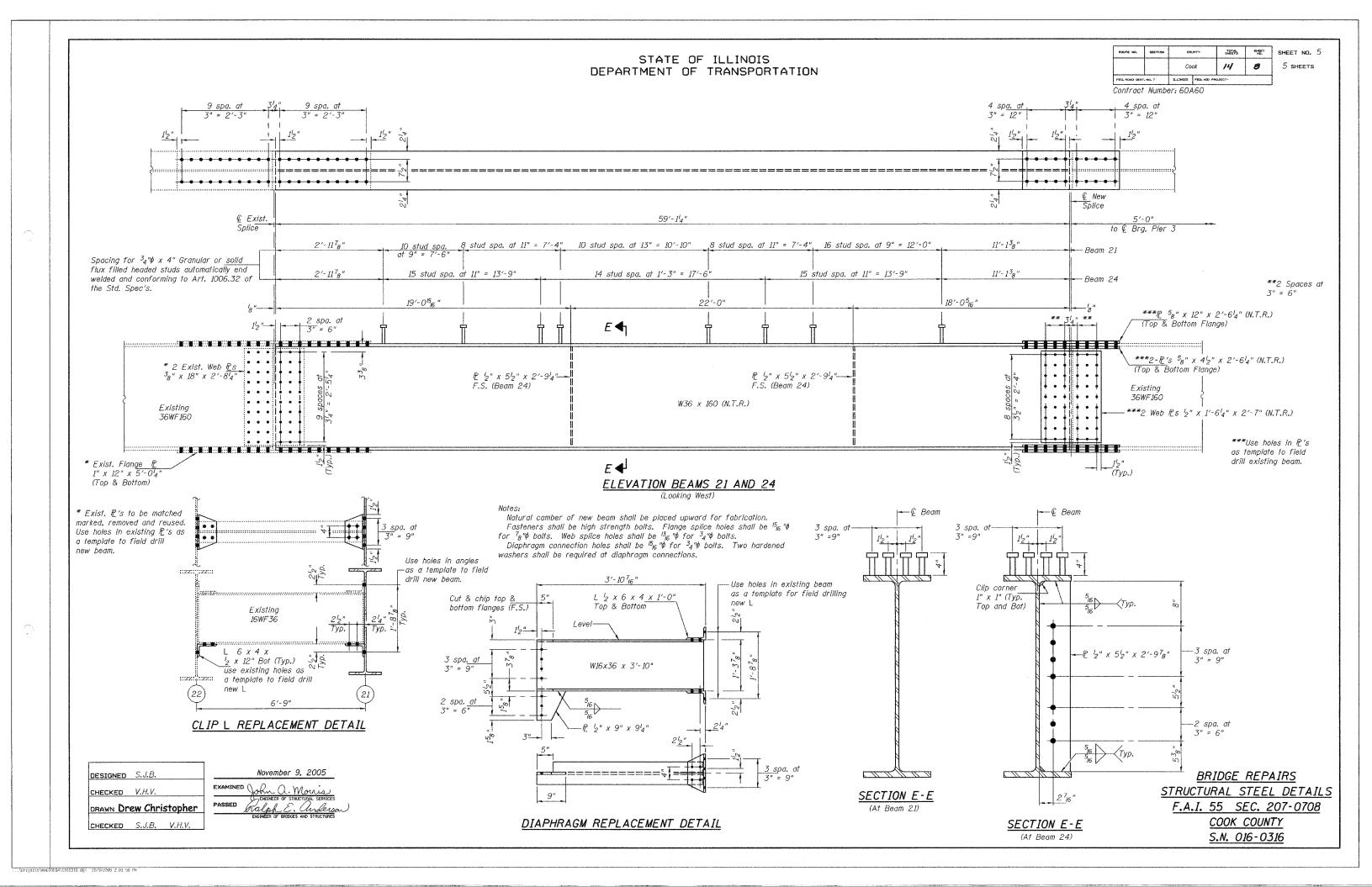
BRIDGE REPAIRS

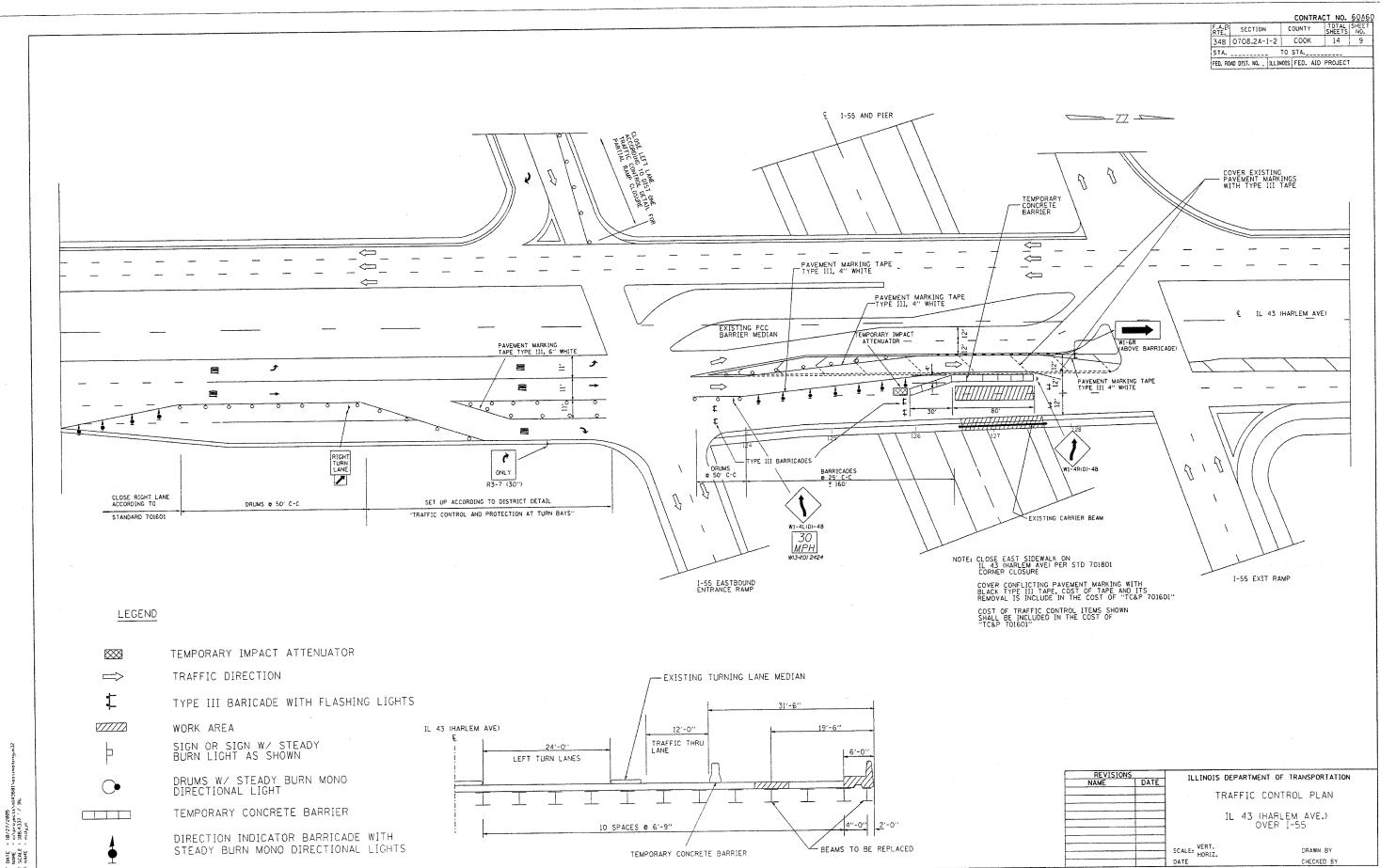
CONCRETE REMOVAL & REPLACEMENT DETAILS

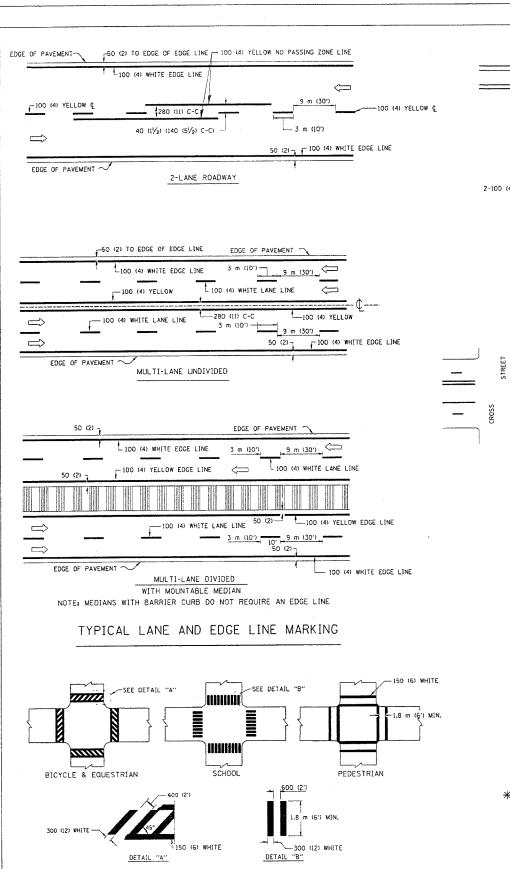
F.A.I. 55 SEC. 207-0708

COOK COUNTY

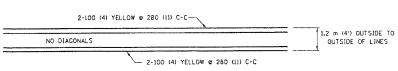
S.N. 016-0316



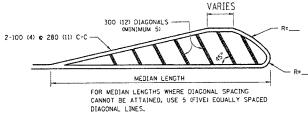




TYPICAL CROSSWALK MARKING

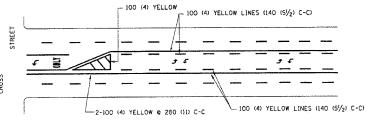


1.2 m (4') WIDE MEDIANS ONLY

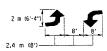


DIAGONAL LINE SPACING: 15 m (50") C-C (LESS THAN 50 km/h (30 MPH))
25 m (75") C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150") C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

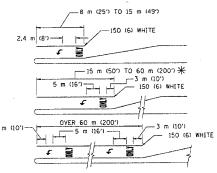


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

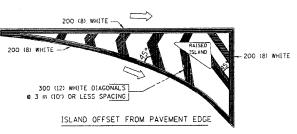


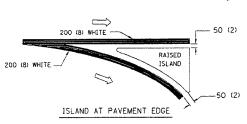
FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SO. FT.) THEY AREA = 1.9 m² (20.8 SO. FT.)

* TURN LANES IN EXCESS OF 120 m (400°) 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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (51/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT . WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8"))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH; 140 (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 g 150 (6) 300 (12) g 45° 300 (12) g 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 500 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (47 IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TIPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (B) WITH 300 (12) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO TO km/h (45 MPH) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES: "RR" IS 1.8 m (6') LETTERS: 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"-0.33m2 (3.6 SO. FT.) EACH "X"=5.0 m2 (54.0 SO. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH) 45 m (150') C-C (0VER 70 km/h (45 MPH))

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

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

ILLINDIS DEPARTMENT OF TRANSPORTATION

Contract Number: 60A60

"ALP" SECTION COUNTY STRIP, SECTION

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FED. RDMO DEST. NO. BLISHOSS FEB. ASD PROJECT

DISTRICT ONE
TYPICAL PAVEMENT

ER 10-27-94 MARKINGS H 10-09-96 ER 01-06-00 SCALE: NONE

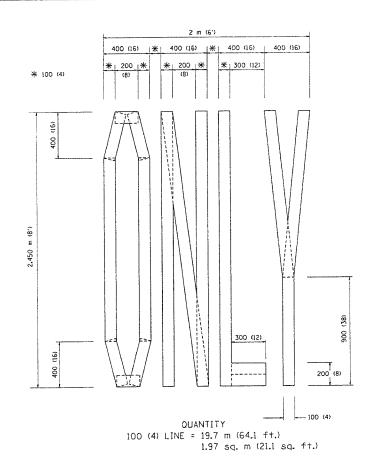
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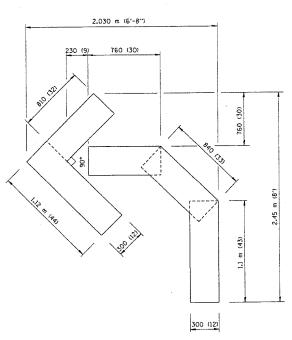
REVISION DATE: 01/06/00

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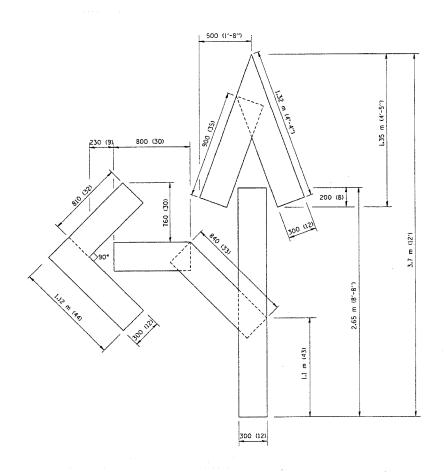
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OUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



OUANTITY 100 (4) LINE = 25.3 m (82.5 ft.) 2.53 sq. m (27.5 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

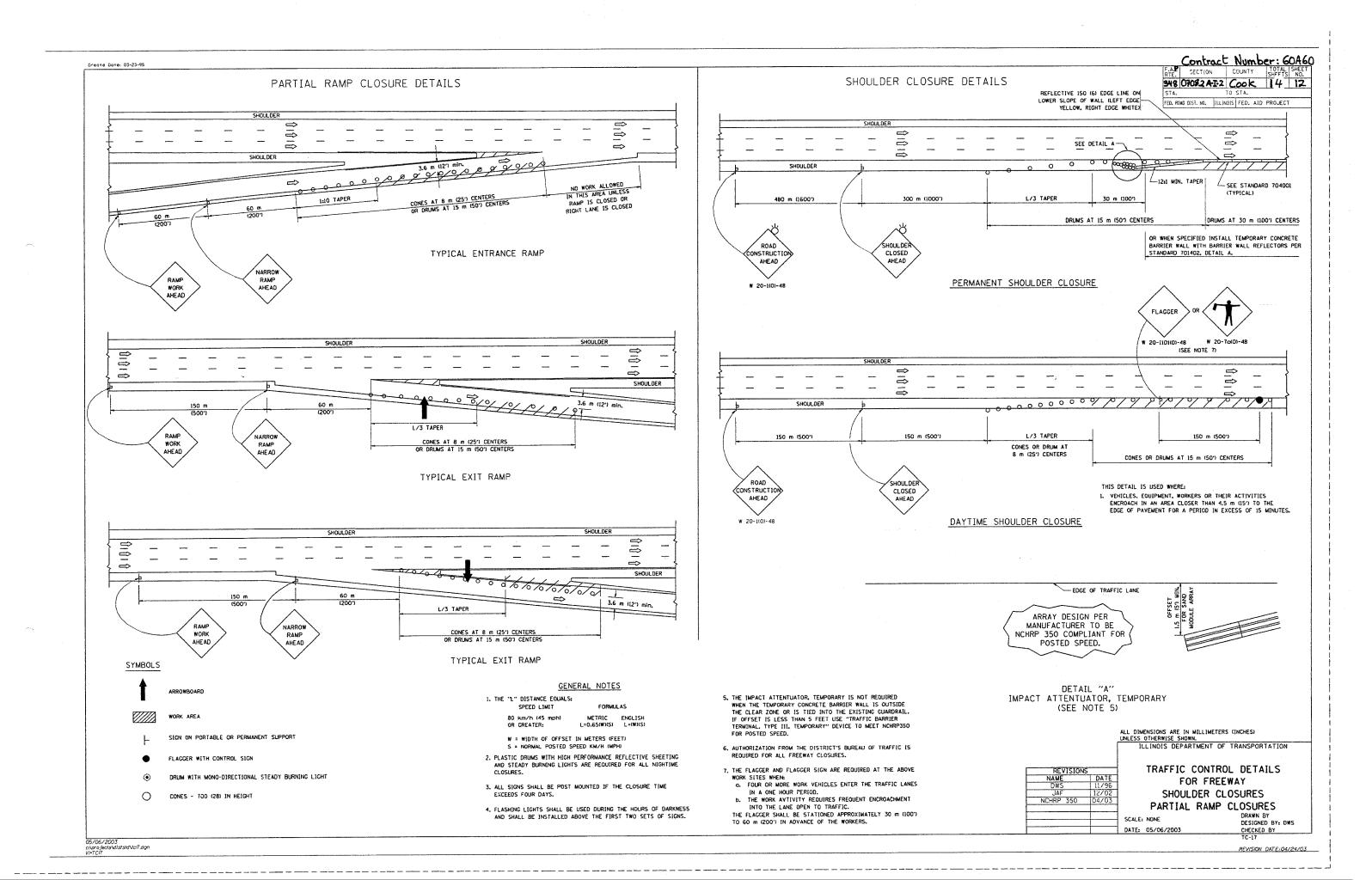
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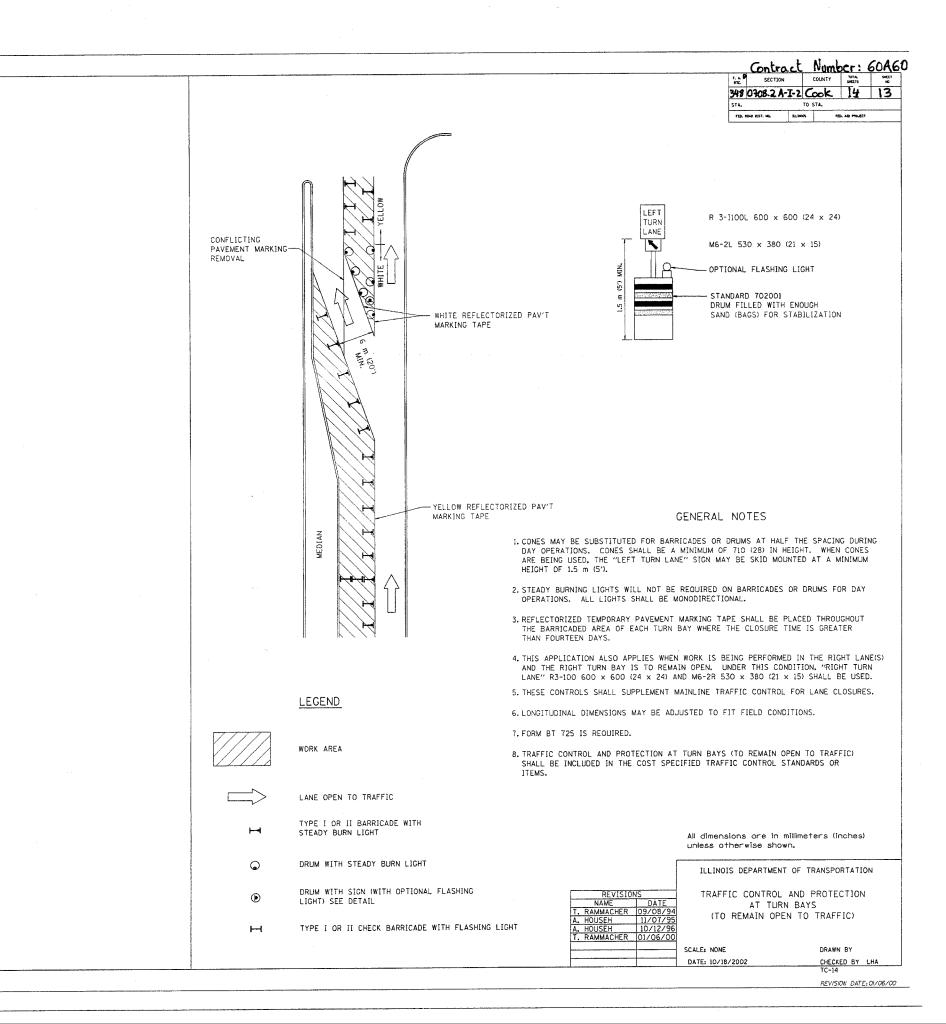
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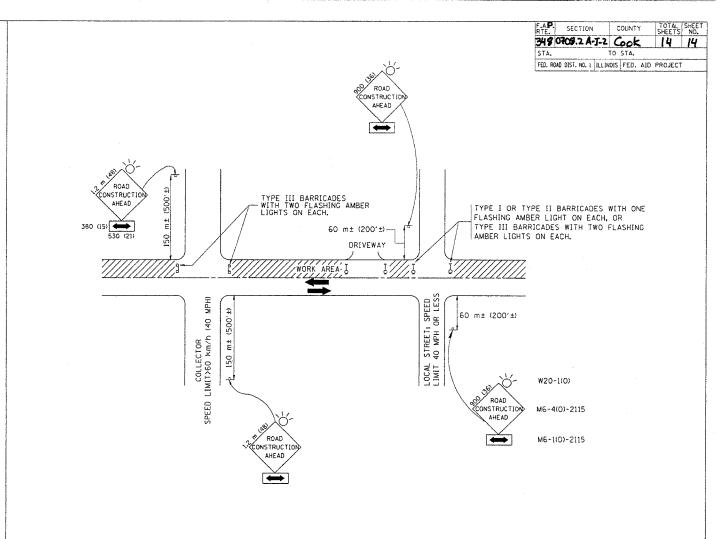
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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200") 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) IN ADVANCE OF THE MAIN ROUTE.
- 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 (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 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.

	VS.	REVISIO
	DATE	NAME
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]	09/08/94	T. RAMMACHER
	10/18/95	J. OBERLE
	03/06/96	A. HOUSEH
	10/15/96	A. HOUSEH
	01/06/00	T. RAMMACHER
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION

FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: VERT. HORIZ. DATE 10/18/2002 DRAWN BY

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REVISION DATE: 01/06/00