STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 290 / F.A.P. ROUTE 342 I-290 /ILL 53 US 12 (RAND RD.) TO ILL 72 (HIGGINS RD.) SECTION: (531-3.1, 0305-302 K) RS-5 RESURFACING, BRIDGE DECK REPAIR, JOINT REPAIR

> PROJECT: - -**COOK COUNTY** - C-91-033-10

PROJECT IS LOCATED IN THE CITY OF ROLLING MEADOWS AND THE VILLAGES OF ARLINGTON HEIGHTS, PALATINE, & SCHAUMBURG

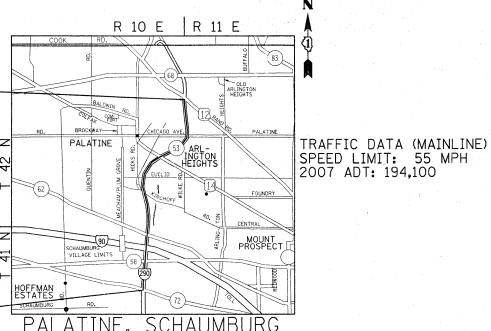
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENDS STA. 436+00 RESURFACING OMISSIONS: STA. 81+05 TO STA. 82+71 STA. 109+80 TO STA. 112+01 STA. 133+91 TO STA. 137+47 STA. 153+26 TO STA. 154+74 STA. 173+87 TO STA. 178+97 STA. 224+22 TO STA. 230+98 STA. 274+37 TO STA. 280+65 STA. 298+84 TO STA. 308+60 STA. 258764 TO STA. 366+78 STA. 360+26 TO STA. 366+78 STA. 383+64 TO STA. 389+05 STA. 433+68 TO STA. 436+00

PROJECT BEGINS STA. 58+43

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240 PROJECT MANAGER: KEN ENG



GROSS LENGTH OF PROJECT = 37,757 FEET (7.2 MILES) NET LENGTH OF PROJECT = 32,651 FEET (6.2 MILES)

290 (531-3.1, 0305-302K)RS-5 COOK \$314 1

FED. ROAD DIST. NO. 1 ILLINOIS CONTRACT NO. 60138

314+2=316

D-91-033-10



STATE OF ILLINO'S DEPARTMENT OF TRANSPO ITATION DIVISION OF HIGHWAYS SUBMITTED FEBRUARY 3, 20 10 Drane M. O'Hufe ge
DEPUTY DIRECTOR OF HIGH WAYS, REGION ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60138

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	311	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE (TC-25)
	312	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)
	313-314	TOLLWAY SIGNING

STATE STANDARDS

	000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
	442201-03	CLASS C AND D PATCHES
	482011 <i>-03</i>	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
	602001 <i>-01</i>	CATCH BASIN TYPE A
	604036- <i>02</i>	GRATE TYPE 8
1	606401 <i>-01</i>	PAVED DITCH
	635006 <i>-03</i>	REFLECTOR AND TERMINAL MARKER PLACEMENT
	642001 <i>-01</i>	SHOULDER RUMBLE STRIPS
	664001 <i>-02</i>	CHAIN LINK FENCE
	701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
	701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
	701400-04	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
	701401 - 05	LANE CLOSURE FREEWAY/ EXPRESSWAY
	701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS 2 45 MPH
,	701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS 2 45 MPH
. ,	701446-01	TWO LANE CLOSURE FREEWAY/ EXPRESSWAY
	701601- <i>0</i> 6	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
	701701-06	URBAN LANE CLOSURE MULTILANE INTERSECTION
	701901-01	TRAFFIC CONTROL DEVICES
	704001-06	TEMPORARY CONCRETE BARRIER
	720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
	728001-01	TELESCOPING STEEL SIGN SUPPORT
	729001- 01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)

GENERAL NOTES:

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ROLLING MEADOWS, AND THE VILLAGES OF ARLINGTON HEIGHTS, PALATINE, & SCHAUMBURG.

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

ALL HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE CLASS D.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

10 FEET (3 METER) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-4342.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN, PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

FILE NAME =	USER NAME = abrevah	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\ABREUAH\dØ166688\D1Ø	3310-sht-plan.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 2/11/2010	DATE -	REVISED -

STATE	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

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	I-290	/ IL	L 53	FROM L	JS 12	TO	ILL	72		F.A.I RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
INDEX	OF SH	EETS	STATE	STAND	ARDS	AND	GEN	NERAL	NOTES	290	(531-3.1, 0305-302 K) RS-5	COOK	314	2
SCALE: 1"		SHEET N		SHEETS				O STA.			OAD DIST NO 1 HILLINOIS EED AL	CONTRAC	T NO.	60138

Existing Structure:

S.N. OÍG-0375 built in 1963 as F.A. Route 61, Section 531-2HB-1 at Station 243+49.94. Structure consists of three span continuous steel beam bridge with a 34°55' right ahead skew, 155'-6" back-to-back abutments along bridge chord, out to out deck width of 58'-11", multi-column piers, and pile bent abutments. In 1971, the deck was patched and a bituminous overlay was placed on the structure. In 1991, the expansion joints and parapets were reconstructed, along with deck patching and overlay replacement with microsilica concrete. In 2000, the abutment bearings were replaced with elastomeric bearings. Traffic is to be maintained utilizing stage construction.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

- General Plan and Flevation
- Deck Repair & Stage Construction Details
- Temporary Concrete Barrier for Stage Construction
- Concrete Removal Concrete Details
- Abutment Repair
- Bar Splicer Assembly and Mechanical Splicer Details
- 8. Preformed Joint Strip Seal

SCOPE OF WORK

- 1. Remove and replace concrete deck adjacent to abutment expansion joints.
- 3. Apply concrete sealer to top of concrete deck and top and

GENERAL NOTES

Plan dimension 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.

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 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for futher 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.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs, when the deck is poured at an ambient temperature other than

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

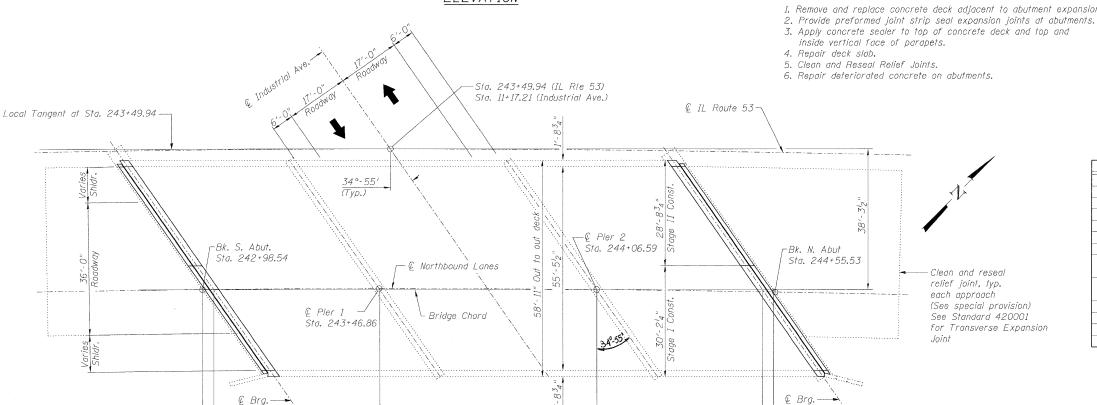
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	19.8	-	19.8
Protective Shield	Sq. Yd.	359	-	359
Concrete Superstructure	Cu. Yd.	19.8	-	19.8
Reinforcement Bars, Epoxy Coated	Pound	2090	-	2090
Bar Splicers	Each	24	-	24
Preformed Joint Strip Seal	Foot	138	-	138
Concrete Sealer	Sq. Ft.	9894	-	9894
Structural Repair of Concrete	Sa. Ft.	-	28	28
(Depth Greater Than 5 in.)	- 7			
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	er .	60	60
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.2	-	1.2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	65.7	-	65.7
Deck Slab Repair (Partial)	Sq. Yd.	20,4	-	20.4
Clean and Reseal Relief Joint	Foot	72	-	72

ELEVATION

Existing W30x108 —



155'-6" Bk, to Bk, Abut, along Bridge Chord PLAN

59'-2"

DESIGN STRESSES

FIELD UNITS (New Const.)

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

FIELD UNITS (Existing)

fc = 1,400 psi (Superstructure and Substructure) fs = 20,000 psi (Reinforcement and Structural Steel)

3'-0"

DESIGN SPECIFICATIONS

2002 AASHTO "Standard Specifications for Highway Bridges", 17th Edition

LOADING HS 20-44

(Original Construction)



3'-0"

2/8/10

Date

Michael J. Haler

Michael T. Haley Licensed Structural Engineer State of Illinois No. 81-5991 Expires 11/30/2010



Range 10F - 3rd, PM

LOCATION SKETCH

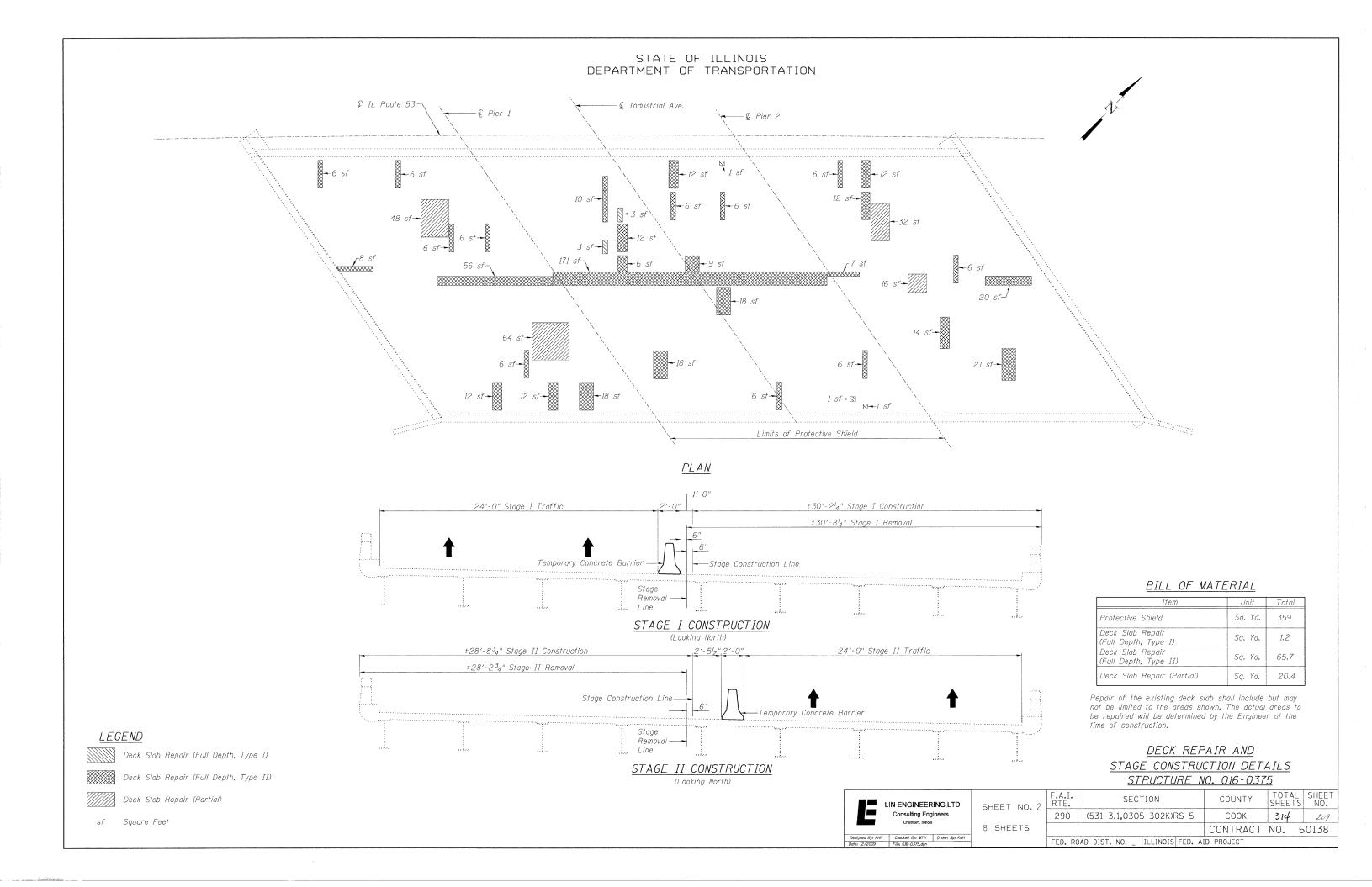
GENERAL PLAN AND ELEVATION NB IL RTE 53 OVER INDUSTRIAL AVE. F.A.I. RTE 290 SEC (531-3.1,0305-302K)RS-5 COOK COUNTY STATION 243+49.94

STRUCTURE NO. 016-0375

LIN ENGINEERING LTD. Consulting Engineers Checked By: MTH File: 016-0375.dgn : MTH Drawn By: KHI

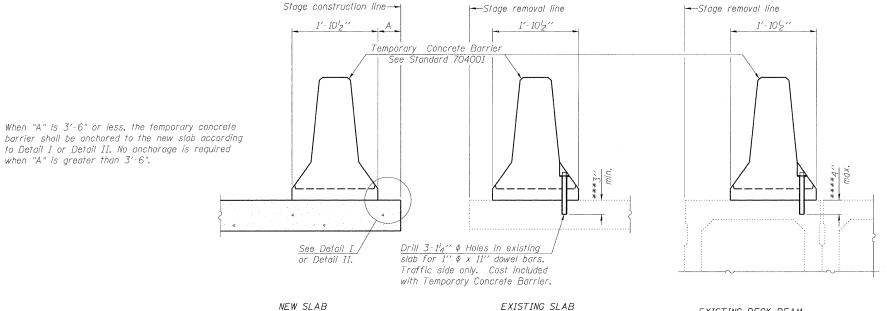
SHEET NO. 8 SHEETS

TOTAL SHEET SHEETS NO. COUNTY SECTION (531-3.1.0305-302K)RS-5 314 208 290 COOK CONTRACT NO. 60I38 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING DECK BEAM



NOTES

Detail I - With Bar Splicer or Couplers: Connect one (I) 1''x7''x10'' steel R to the top layer of couplers with $2^{-5}8'' \phi$ bolts screwed to coupler at approximate @ of each barrier panel.

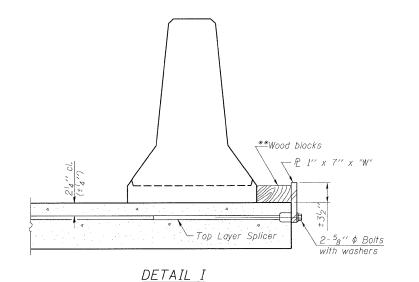
Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x 10" steel P to the concrete slab or concrete wearing surface with $2^{-5}8''$ ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate © of each barrier panel.

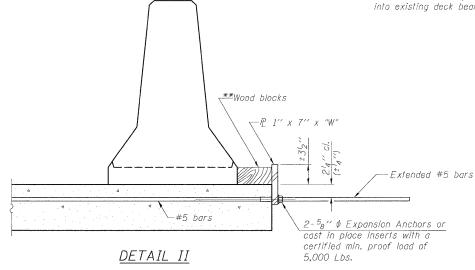
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.





Top bars Detail I spacing 53 Detail II -@ ⁷8" ¢ Holes *£ 1" x 1½" Notch

STEEL RETAINER P 1" x 7" x 10"

* Required only with Detail II

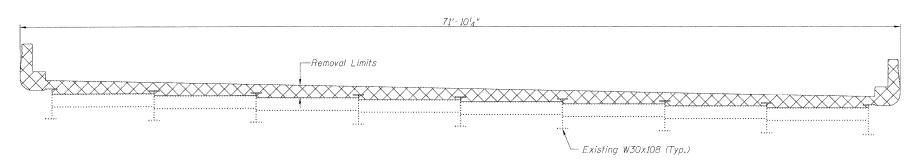
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 016-0375

			STRUCTURE I	0. 010 031	<u> </u>	
LIN ENGINEERING,LTD.	SHEET NO. 3	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Consulting Engineers	011221 1108 0	290	(531-3.1,0305-302K)RS-5	COOK	314	210
	8 SHEETS			CONTRACT	NO. 6	0138
Designed By: KHH Checked By: MTH Drawn By: KHH Date: 12/2009 File: 016-0375.dgn	-	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

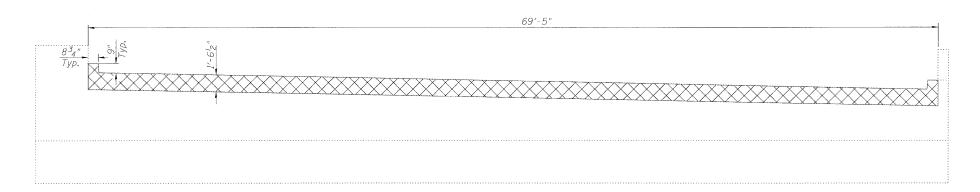
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

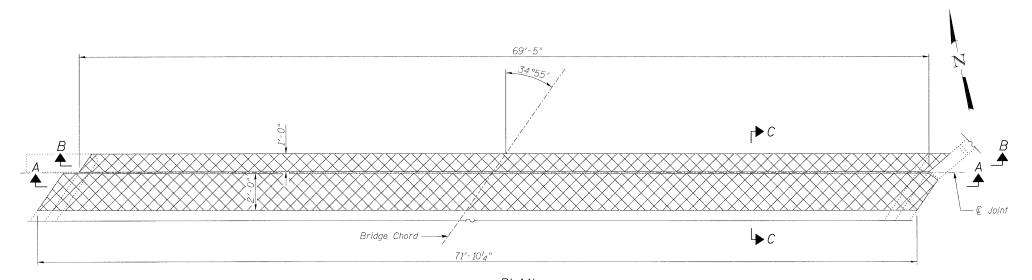
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



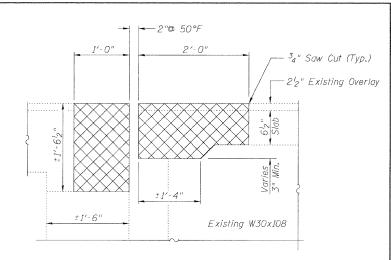
SECTION A-A



SECTION B-B



PLAN (North abutment shown, south abutment mirrored about Bridge Chord)



SECTION C-C

(Dimensions at Rt. L's)

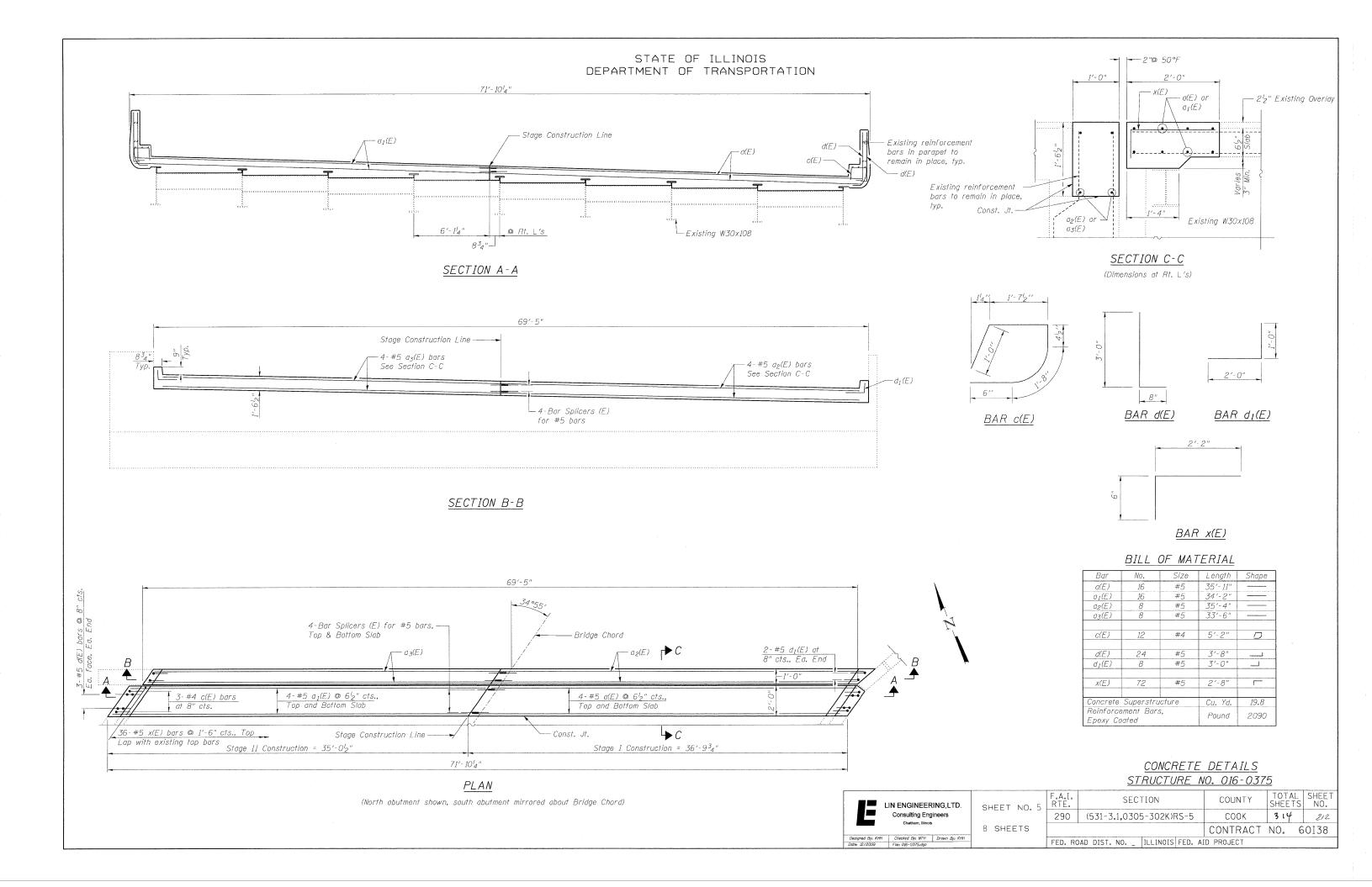
- 1. Cross hatched area indicates concrete romoval.
- Cross hatched area indicates concrete romoval.
 Existing reinforcement bars in the concrete removal are extending in new construction shall be cleaned and incorporated into the new construction.
 Cost included in Concrete Removal.
 Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standard Specifications Article 501.03. Cost included in Concrete Removal.
- 4. See Sheet 2 of 8 for Stage Construction Details.
 5. Overlay removal is included in cost of Concrete Removal.

BILL OF MATERIAL

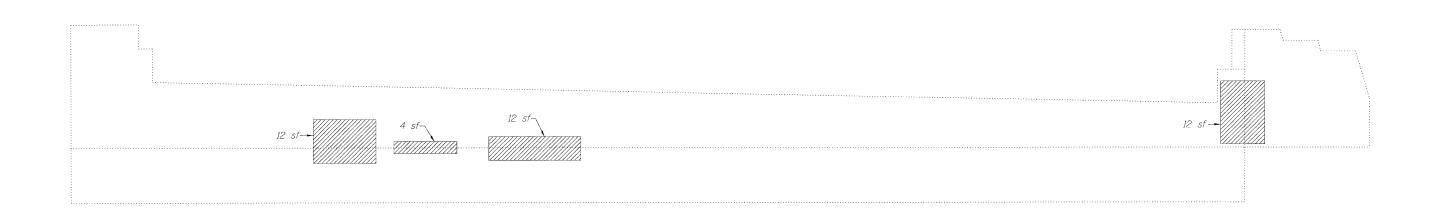
Item	Unit	Total
Concrete Removal	Cu. Yd.	19.8

CONCRETE REMOVAL STRUCTURE NO 016-0375

				STRUCTURE N	10. 016-031	<u> </u>	į
LIN EI	NGINEERING,LTD.	SHEET NO. 4	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 1	nsulting Engineers	3.122 · .131	290	(531-3.1,0305-302K)RS-5	COOK	314	211
		8 SHEETS			CONTRACT	NO. 6	8510
	oked By: MTH Drawn By: KHH 016-0375.dgn		FED. RC	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



NORTH ABUTMENT

(Looking North)



SOUTH ABUTMENT

(Looking South)

<u>LEGEND</u>

Structural Repair of Concrete (Depth equal to or less than 5")



Structural Repair of Concrete (Depth greater than 5")

sf Square Feet

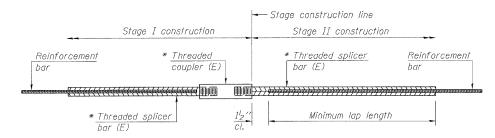
Note:
Repair of the existing abutments shall include but may not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal To or Less Than 5 in.)	Sq. Ft.	60
Structural Repair of Concrete (Depth Greater Than 5 in.)	Sq. Ft.	28

<u>ABUTMENT REPAIR</u> STRUCTURE NO. 016-0375

			<u> </u>	0. 010 00.	<u> </u>	
LIN ENGINEERING,LTD.	SHEET NO.6	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Consulting Engineers	311221 140. 0	290	(531-3.1,0305-302K)RS-5	COOK	314	213
Chatham, Illinois	8 SHEETS			CONTRACT	NO. 6	0138
Designed By: KHH Checked By: MTH Drawn By: KH	"	FED. RO	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

	Minim	um Lap Leng	ths	
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5''	1'-11''	2'-1''	2'-4"
5	1'-9''	2'-5"	2'-7''	2'-11''
6	2'-1"	2'-11''	3'-1''	3'-6''
7	2'-9''	3'-10''	4'-2"	4'-8''
8	3'-8''	5′-1′′	5′-5′′	6'-2"
9	4'-7"	6'-5"	6'-10''	7'-9''

Table 1: Black bar, 0.8 Class C

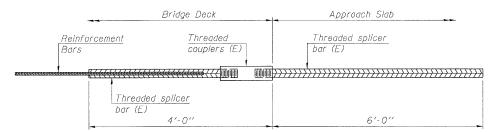
Table 2: Black bar, Top bar lap, 0.8 Class C Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min, lap length + 1^{l}_{2} " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

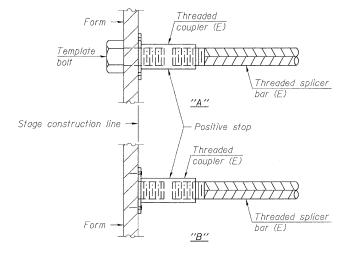
Location	Bar size	No. assemblies required	Table for minimum lap length	
Deck	#5	16	Table 3	
Abutment	#5	8	Table 3	
]	



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =

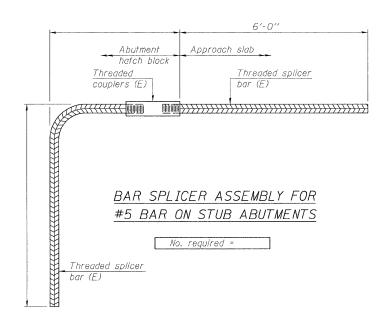
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

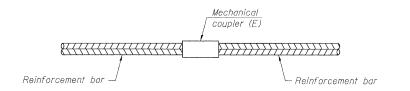


INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.





STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required		

<u>NOTES</u>

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

> BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 016-0375

	E	LIN ENGINEERING,LTD. Consulting Engineers Chatham, Illinois	SHEET NO.7	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				290	(531-3.1,0305-302K)RS-5	COOK	314	214
						CONTRACT	NO. 6	S0138
	Designed By: KHH Date: 12/2009	Checked By: MTH Drawn By: KHH File: 016-0375.dgn		FED. RC	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

