

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1515-B-R-1	COOK	9	1
		ILLINOIS	CONTRACT NO. 62G25	

D-91-276-18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE VILLAGES OF FOREST VIEW AND LYONS.

TRAFFIC DATA
2015 ADT = 39,800
POSTED SPEED = 40 MPH

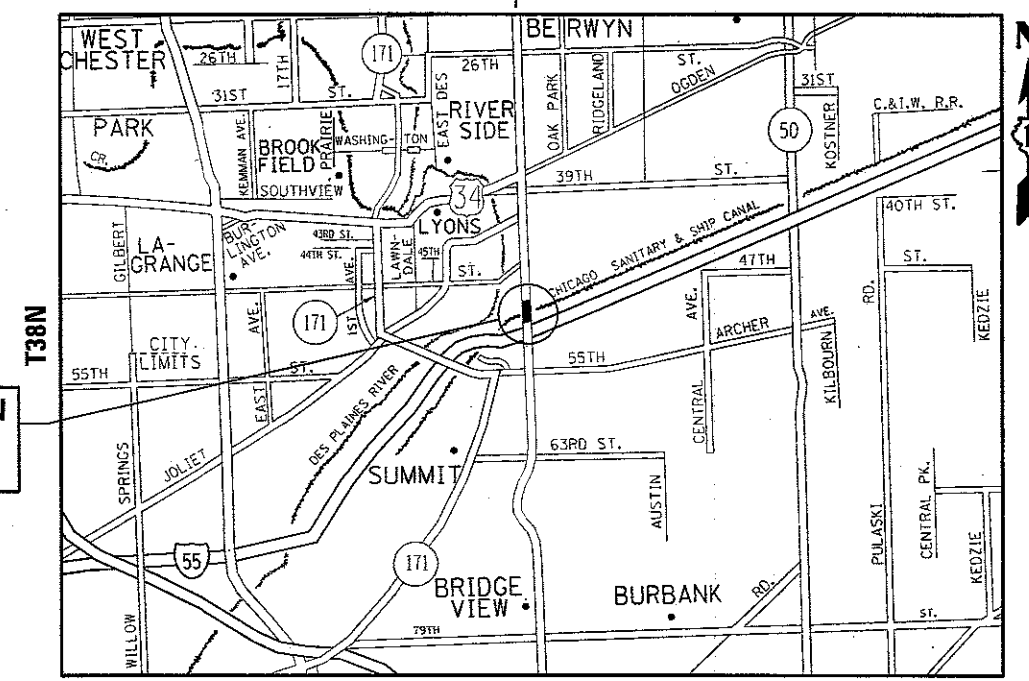
PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 348 – IL 43 (HARLEM AVE.)
AT SANITARY & SHIP CANAL
SECTION: 1515-B-R-1
BRIDGE REPAIR
COOK COUNTY

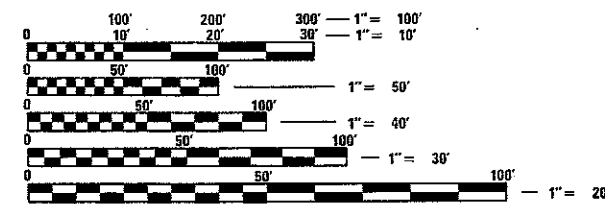
C-91-173-18



R 12 E | R 13 E



LYONS & STICKNEY TOWNSHIPS



IMPROVEMENT LOCATION
SN 016-0315 &
SN 016-0991

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 FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62G25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13 20 18
Anthony J. Deringer / *AB* REGIONAL ENGINEER
May 11 20 18
Paul P. Chisholm ENGINEER OF DESIGN AND ENVIRONMENT
May 10 20 18
Paul P. Chisholm DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-8	STRUCTURE PLANS (SN 016-0315 & 016-0991)
9	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W, 2W, WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES

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 UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF FOREST VIEW AND LYONS.

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 BASED AT THE UNIT PRICE BID FOR THE WORK.

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

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

THE CONTRACTOR SHALL ALWAYS KEEP ACCESS OPEN TO THE SIDEWALK ON ONE SIDE OF THE BRIDGE DURING CONSTRUCTION.

THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708)597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

BRIDGE ADMINISTRATOR
 US COAST GUARD
 NINTH COAST GUARD DISTRICT
 1240 E. NINTH ST
 CLEVELAND, OH 44199-2060

MODEL: Default
 FILE NAME: P:\11108\EBID\NTEC\Illinois.gov\PWD\DOT\Documents\DOT_Offices\District_1\Projects\Design\CADD\Bids\Design\2018\1016-0164\CADD\Bids\Design\1016-0164-0164-0164.dgn

USER NAME = pyzranowskirb	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/12/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS
 AND GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1515-B-R-1	COOK	9	2
			CONTRACT NO. 62G25	
			ILLINOIS FED. AID PROJECT	

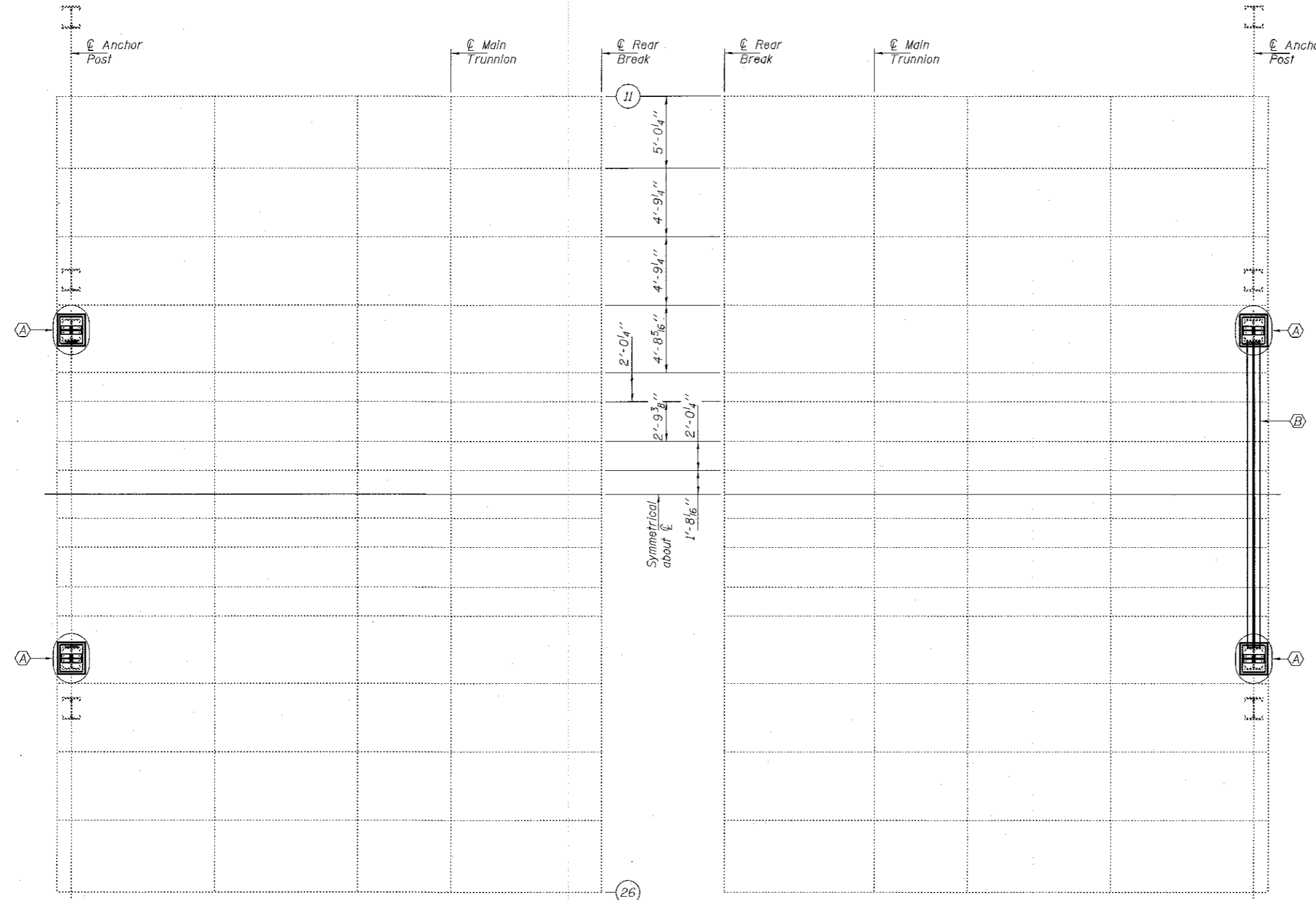
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0047						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0047 016-0315	0047 016-0991					CODE NO	ITEM	UNIT	TOTAL QUANTITIES						
50300225	CONCRETE STRUCTURES	CU YD	5.0	1.8	3.2														
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	870	410	460														
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3														
67100100	MOBILIZATION	L SUM	1	0.5	0.5														
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5	0.5														
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5														
20001905	STRUCTURAL STEEL REPAIR	POUND	4740	1130	3610														
20030850	TEMPORARY INFORMATION SIGNING	50 FT	51.4	25.7	25.7														

FILE NAME =	USER NAME = pprzawestrb	DESIGNED -	REVISED -
p:\11004E\BID\NT\EG\ntd\spw\11007\Documents\11007	D:\11004E\BID\NT\EG\ntd\spw\11007\Documents\11007	OR	OR
	PLOT SCALE = 1/8" = 100000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 4/13/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1515-B-R-1	COOK	9	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G25	



GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

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.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.



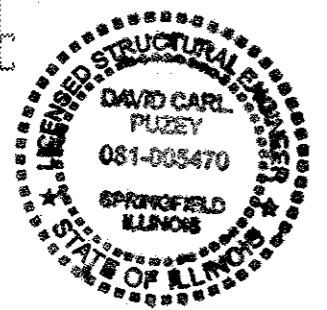
L To be removed. Typ. ea. side. See sheet 2 of 2.

Trim, or embed rail into new construction

SOUTH PIT NORTH PIT

PARTIAL LOCATION PLAN

- (A) - Column repair. See sheet 2 of 2
- (B) - Angle replacement. See sheet 2 of 2



EXPIRES 11-30-2018

DESIGNED <i>Victor H. Velaz</i>	EXAMINED <i>Tim A. DeLa</i>	DATE MAY 10, 2018
CHECKED <i>[Signature]</i>	PASSED <i>[Signature]</i>	REVISED
DRAWN <i>balva</i>	ENGINEER OF STRUCTURAL SERVICES	REVISED
CHECKED <i>VHV AD</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

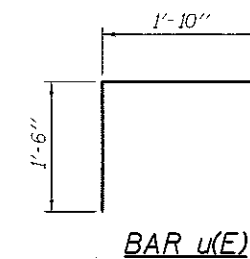
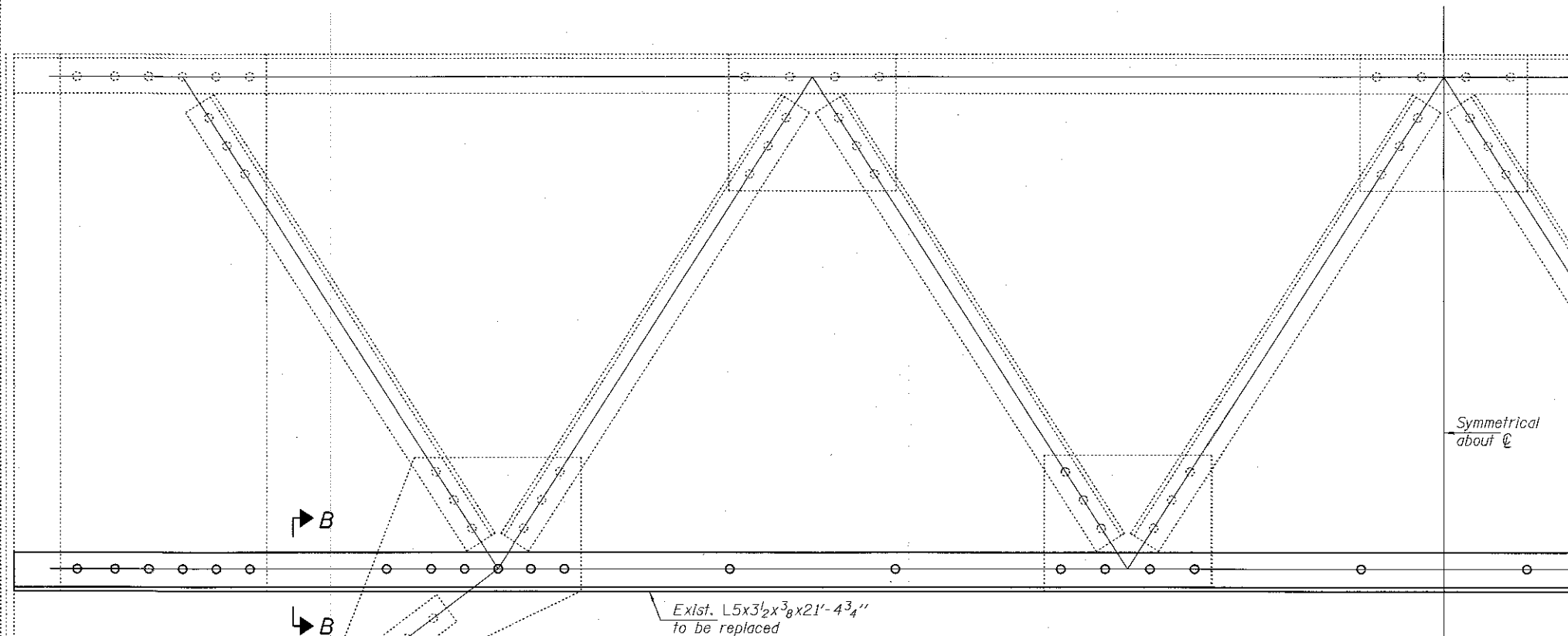
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION PLAN
NB IL 43 (HARLEM AVENUE) OVER SAN. & SHIP CANAL
SN 016-0315

F.A.P. RTE. 34B	SECTION 1515-0-R-1	COUNTY COOK	TOTAL SHEETS 9	SHEET NO. 4
CONTRACT NO. 62625				
[ILLINOIS] FED. AID PROJECT				

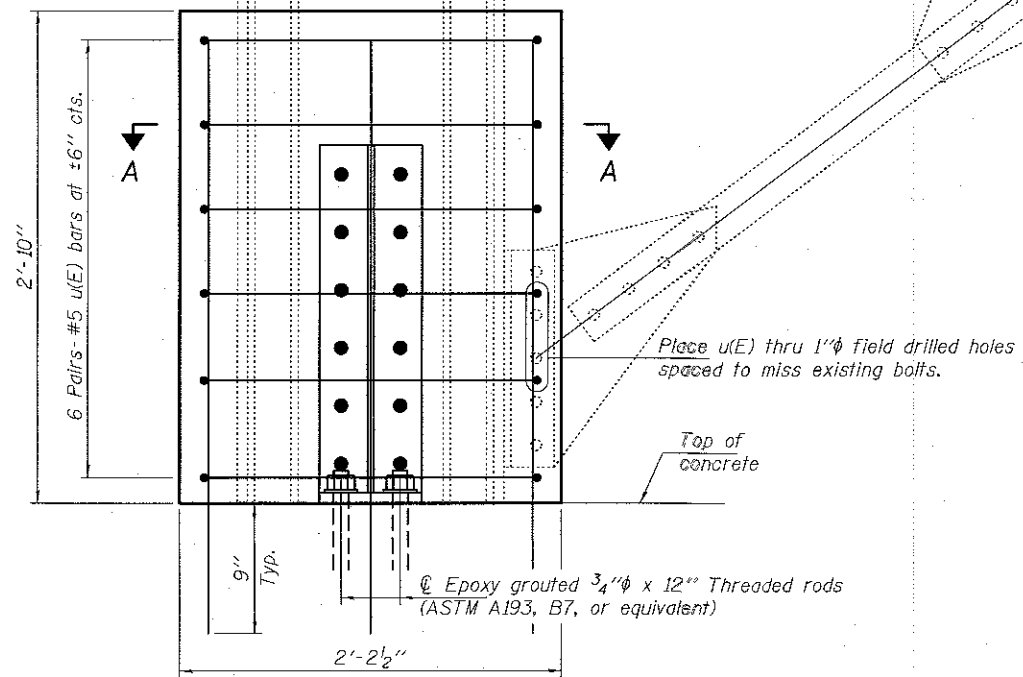
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	1.8
Reinforcement Bars, Epoxy Coated	Pound	410
Structural Steel Repair	Lbs.	1130

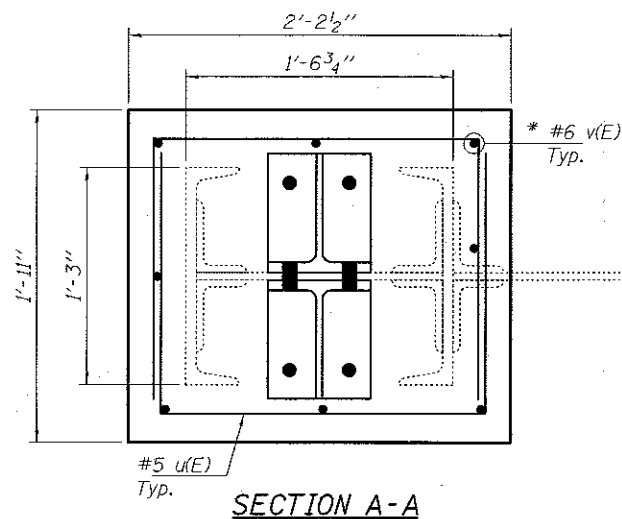


Exist. L5x3 1/2 x 3/8 x 21'-4 3/4\"/>

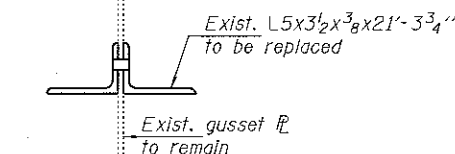
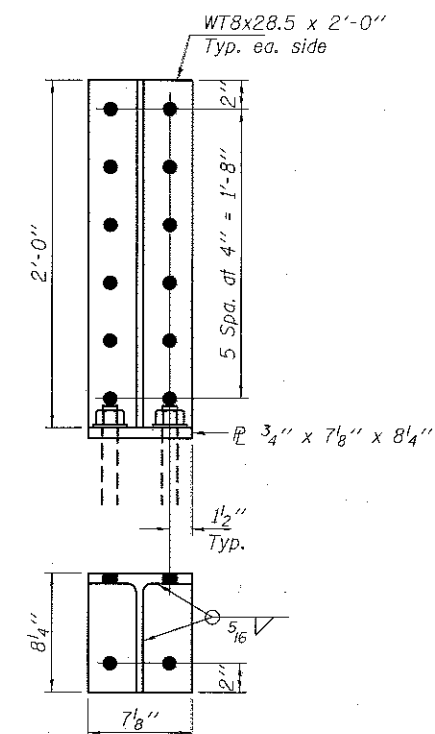
REPAIR B
(1 Location)



REPAIR A
(4 Locations)



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
u(E)	48	#5	4'-10"	□
v(E)	32	#6	3'-5"	—
Structural Steel Repair		Lbs.		1130
Concrete Structures		Cu. Yd.		1.8
Reinforcement Bars, Epoxy Coated		Pound		410

- - Use holes in new steel as template
- - Use holes in existing steel as template

* Epoxy grout v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

DESIGNED VHV
CHECKED DAB
DRAWN baliva
CHECKED VHV DAB

EXAMINED
PASSED
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 10, 2018
REVISED
REVISED

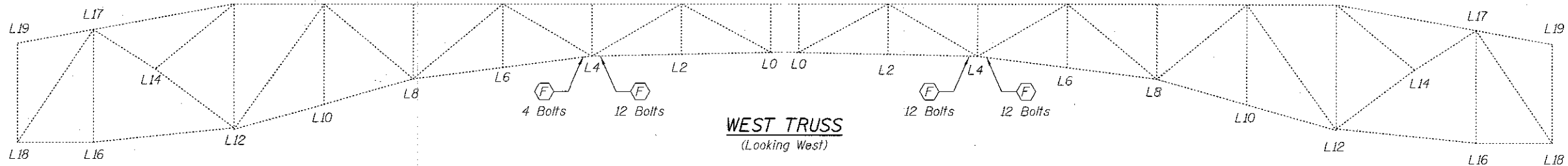
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
016-0315

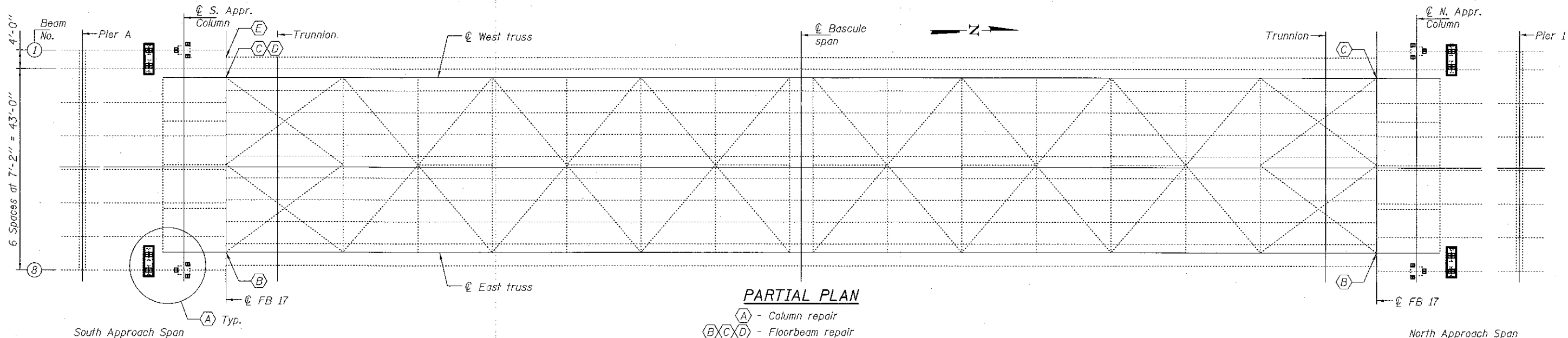
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34B	1515-B-R-1	COOK	9	5
				CONTRACT NO. 62G25

ILLINOIS FED. AID PROJECT

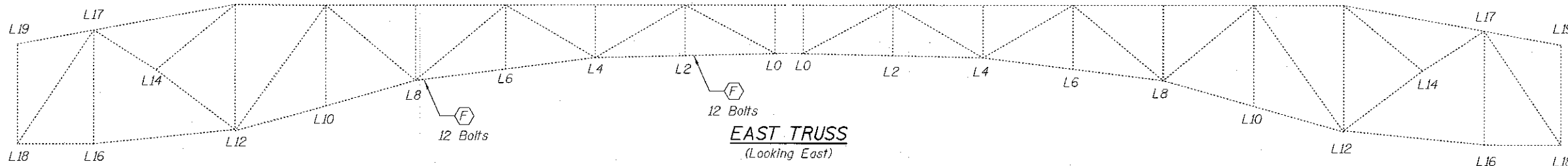


WEST TRUSS
(Looking West)



PARTIAL PLAN

- (A) - Column repair
- (B)(C)(D) - Floorbeam repair
- (E) - Sidewalk bracket repair
- (F) - Bolt replacement



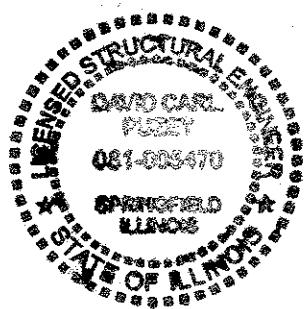
EAST TRUSS
(Looking East)

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 Fasteners shall be high strength bolts. Bolts $T_8 \phi$, open holes $F_{16} \phi$, unless otherwise noted.
 Reinforcement bars designated (E) shall be epoxy coated.
 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.
 All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	3.2
Reinforcement Bars, Epoxy Coated	Pound	460
Structural Steel Repair	Lbs.	3610



EXPIRES 11-30-2018

DESIGNED	EXAMINED	DATE
CHECKED	PASSED	MAY 10, 2018
DRAWN	REVISOR	
CHECKED	REVISOR	

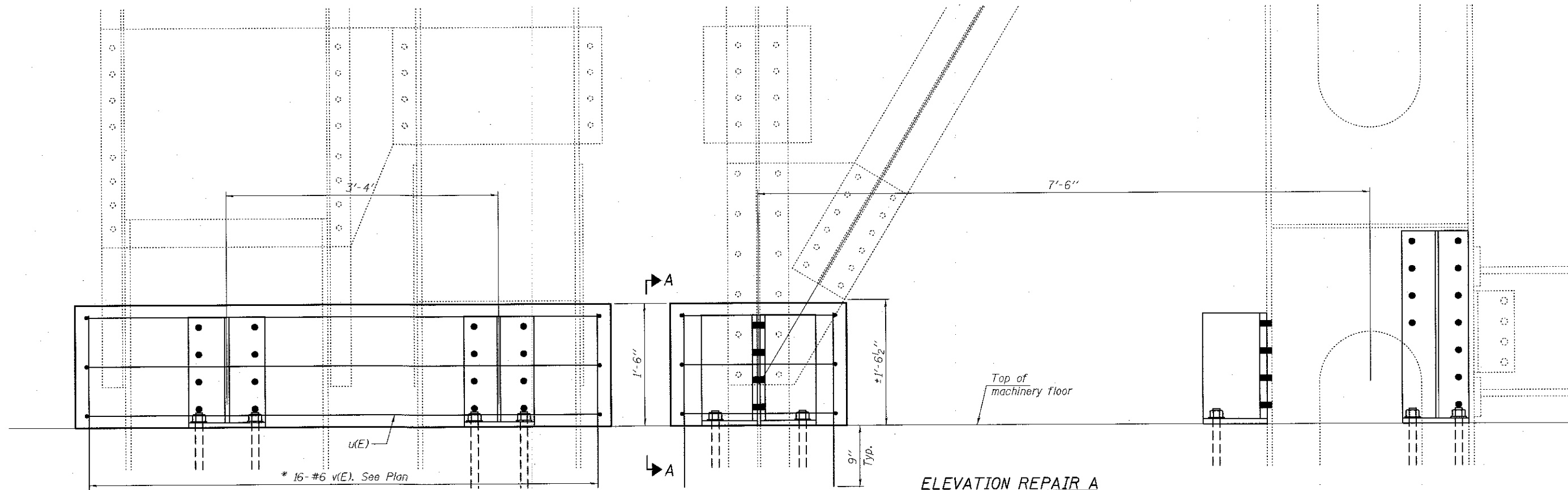
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
FAP 348 (IL43/SB HARLEM AVE) OVER SAN. & SHIP CANAL
SN 016-0991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1515-B-R-1	COOK	9	6
CONTRACT NO. 62G25				

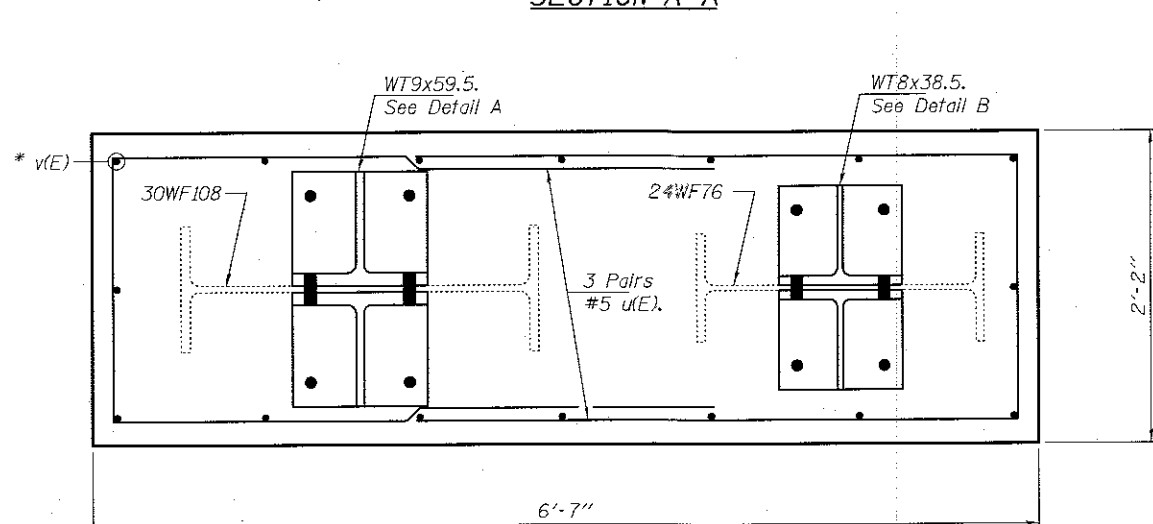
SHEET NO. 1 OF 3 SHEETS

ILLINOIS FED. AID PROJECT

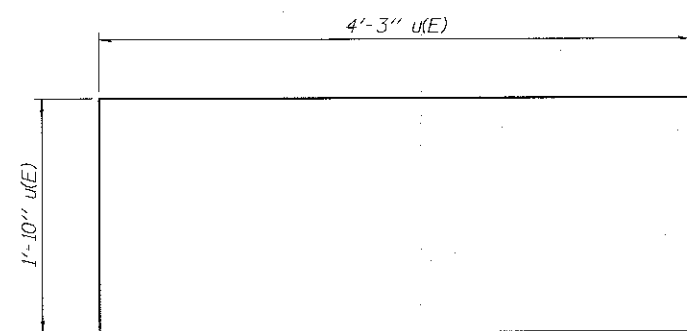


SECTION A-A

ELEVATION REPAIR A
(4 Locations)



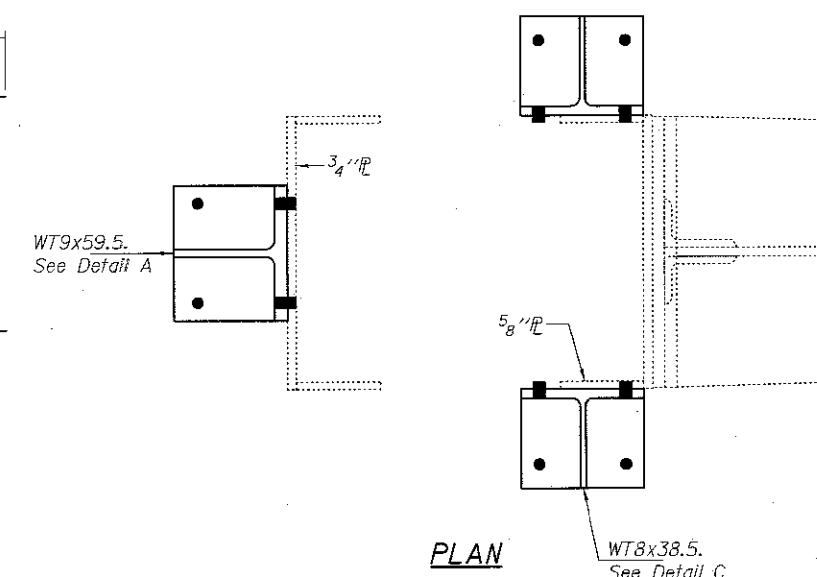
PLAN



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
u(E)	24	#5	10'-4"	□
v(E)	64	#6	2'-1"	—
Concrete Structures			Cu. Yd.	3.2
Reinforcement Bars, Epoxy Coated			Pound	460



PLAN

For Details A, B & C
see sheet 3 of 3.

- - Use holes in new steel as template
- - Use holes in existing steel as template

* Epoxy grout v(E) bars in 9" min.
holes according to Article 584 of the
Standard Specifications.

DESIGNED - VHV
CHECKED - [Signature]
DRAWN - [Signature]
CHECKED - [Signature]

EXAMINED - [Signature]
PASSED - [Signature]

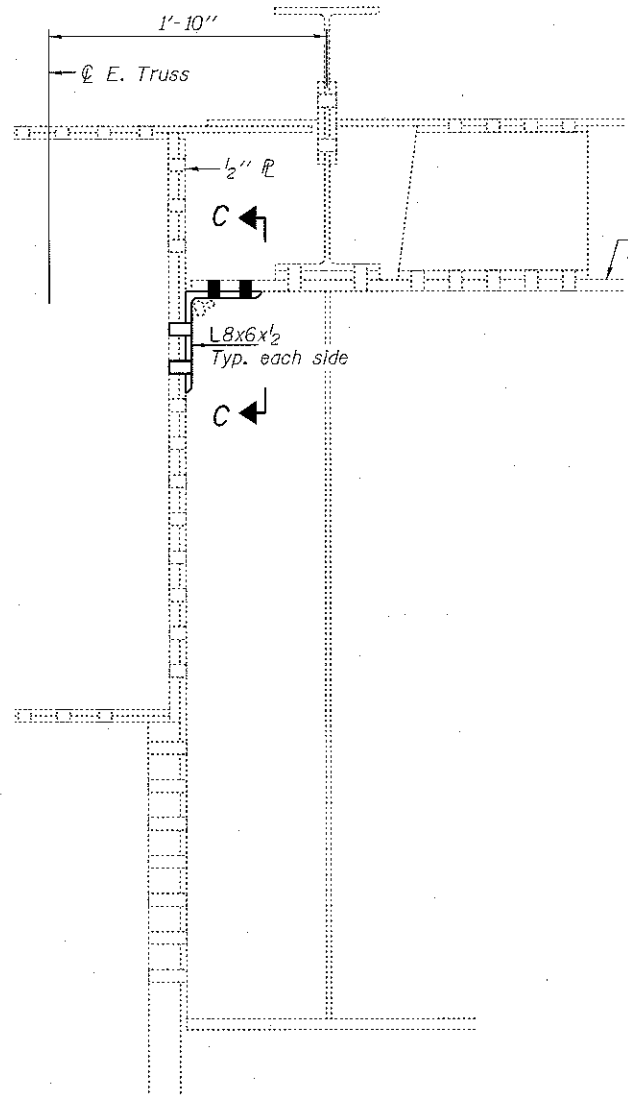
DATE - MAY 10, 2018
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

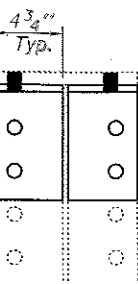
REPAIR DETAILS
SN 016-0991

SHEET NO. 2 OF 3 SHEETS

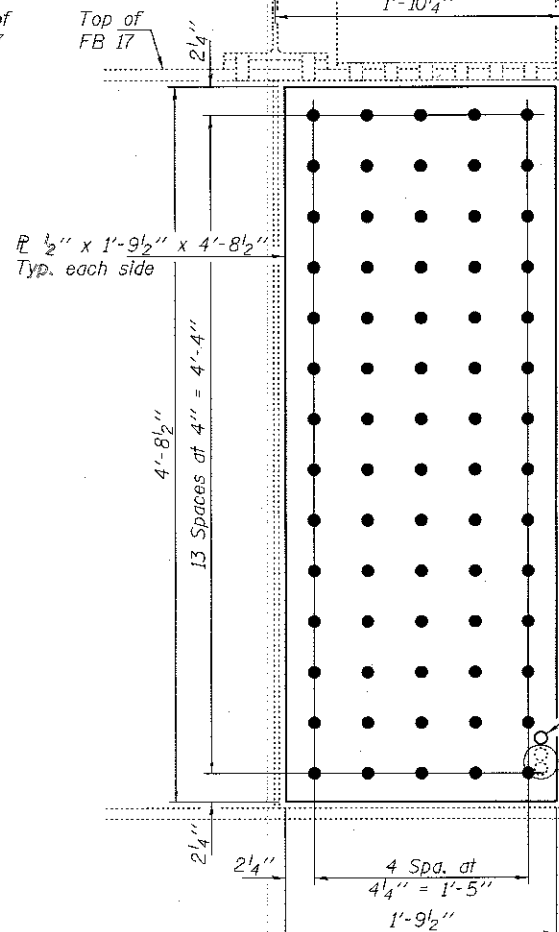
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	1515-B-R-1	COOK	9	7
CONTRACT NO. 62G25				
ILLINOIS FED. AID PROJECT				



ELEVATION
Repair B
(2 Locations)

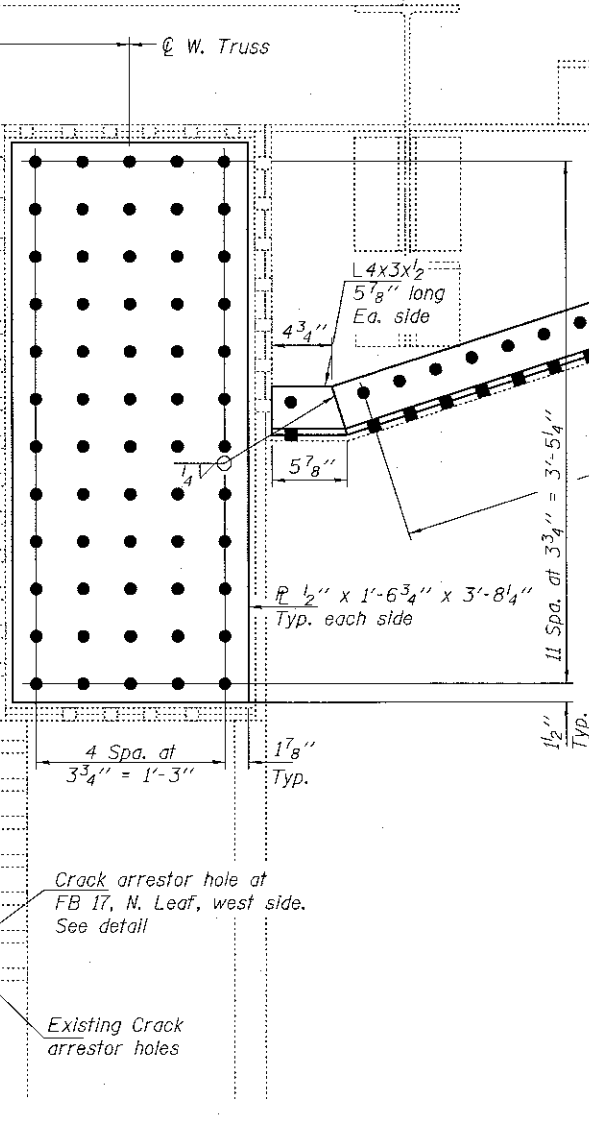


SECTION C-C

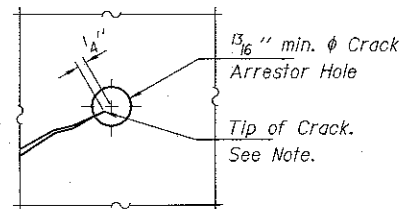


ELEVATION
Repair C
(2 Locations)

Field verify all repair plate and angle sizes



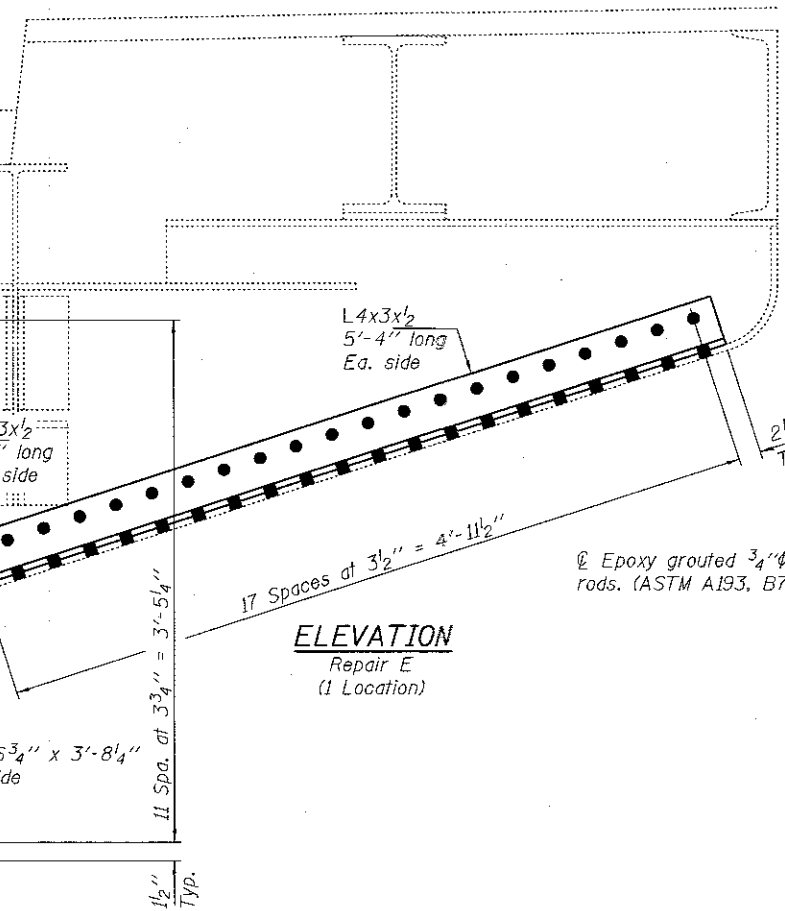
ELEVATION
Repair D
(1 Location)



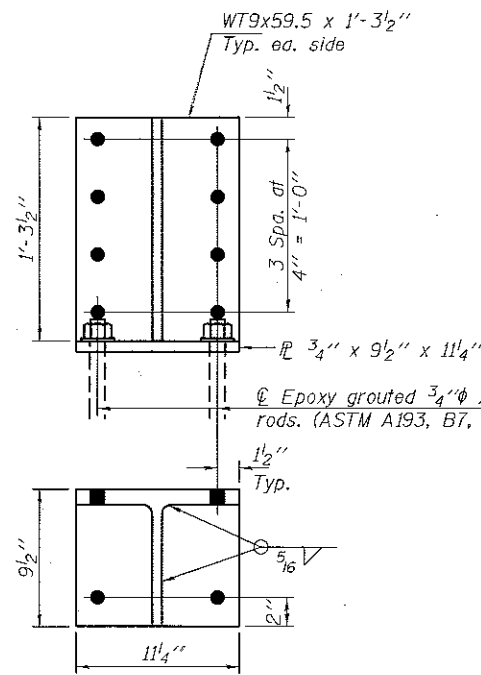
CRACK ARRESTOR HOLE DETAIL

Note:
Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill 1 3/16" min. ϕ Crack Arrestor hole at the crack tip. After crack arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included with Structural Steel Repair.

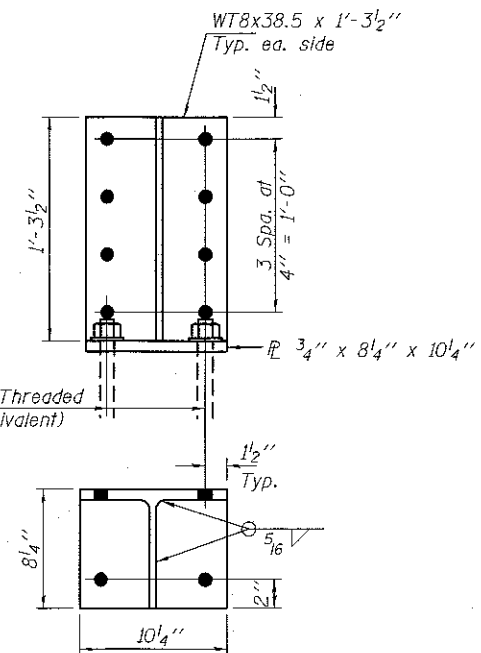
- - Use holes in new steel as template
- - Use holes in existing steel as template



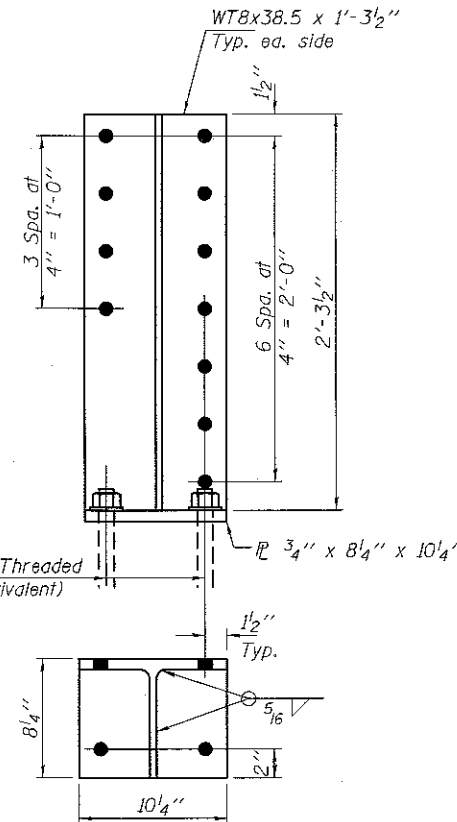
ELEVATION
Repair E
(1 Location)



DETAIL A



DETAIL B



DETAIL C

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Lbs.	3610

DESIGNED - VHV	EXAMINED - Timothy A. Balliet	DATE - MAY 10, 2018
CHECKED - CAB	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - balliva	ENGINEER OF BRIDGES AND STRUCTURES	
CHECKED - VHV	PASSED - D. Carl Perry	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
SN 016-0991

SHEET NO. 3 OF 3 SHEETS

F.A.P. RTE. 34B	SECTION 1515-B-R-1	COUNTY COOK	TOTAL SHEETS 9	SHEET NO. 8
CONTRACT NO. 62G25			ILLINOIS FED. 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 = pyzenowskirb	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Design\2018\016-0464\CADData\REVISED	DRAWN -	DESIGNED - R. MIRS 12-11-97	REVISED - T. RAMMACHER 02-02-99		348	1515-B-R-1	COOK	9	9			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS			TC-22	CONTRACT NO. 62G25			
PLOT DATE = 4/12/2018	DATE -	REVISED -	STA.		TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				