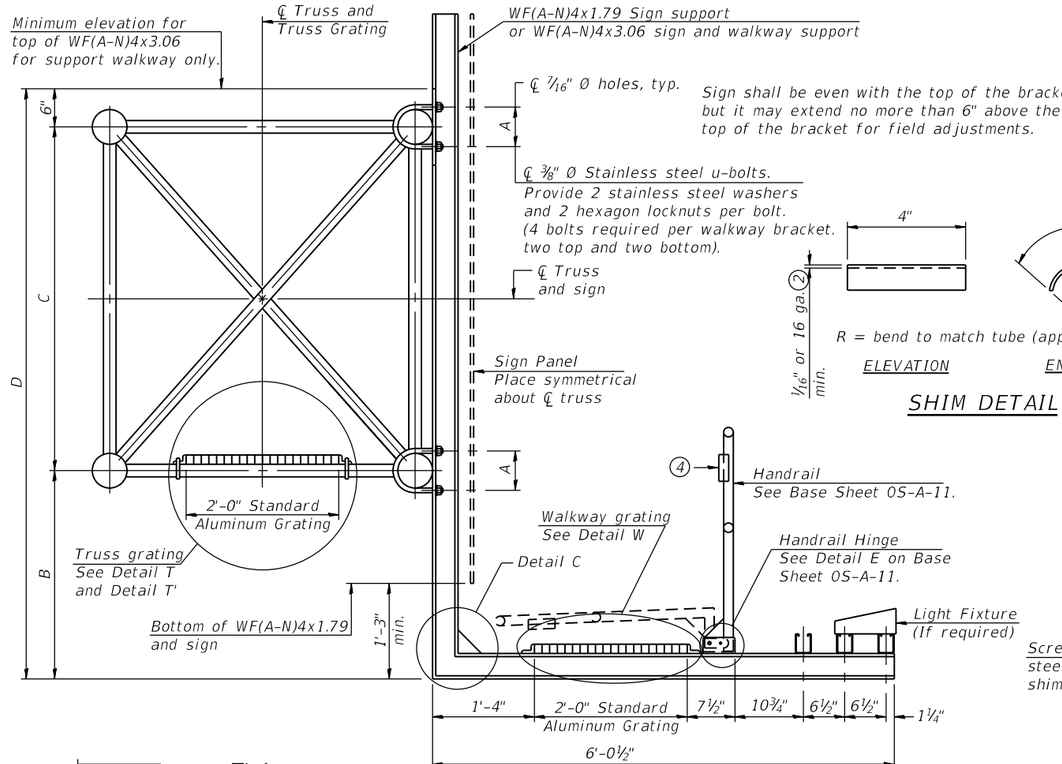
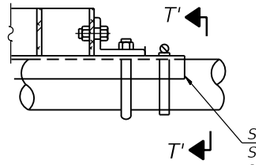


SECTION B-B

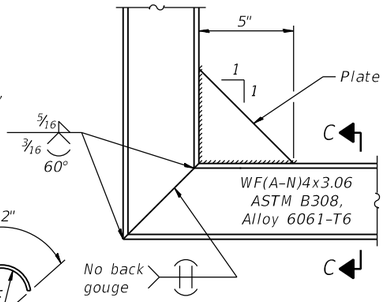


DETAIL T'

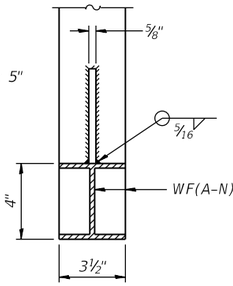
(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

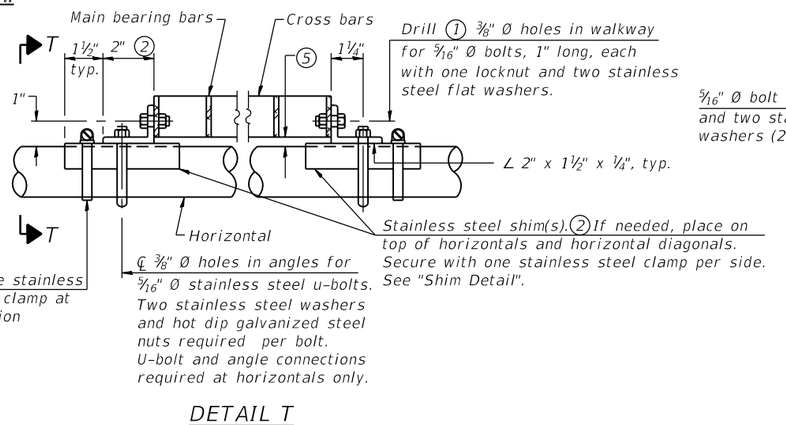
SHIM DETAIL



DETAIL C

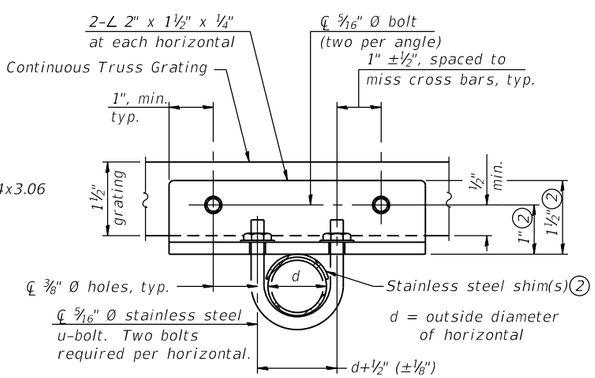


SECTION C-C

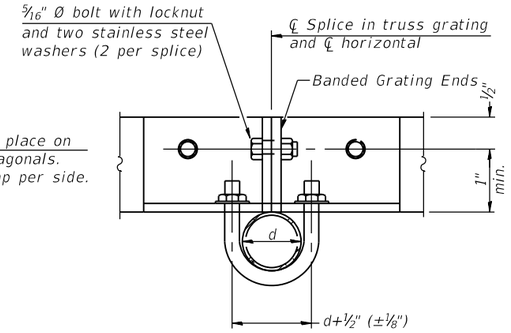


DETAIL T

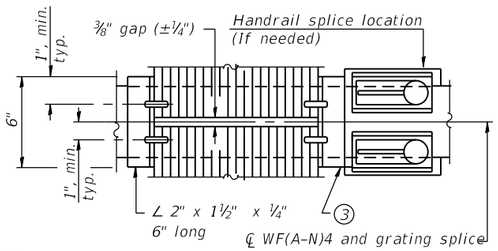
(Continuous Truss grating)



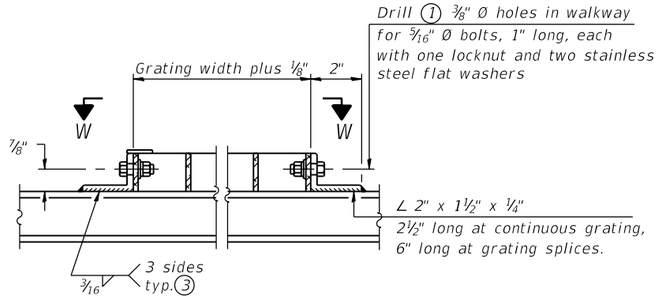
SECTION T-T



SECTION T'-T'

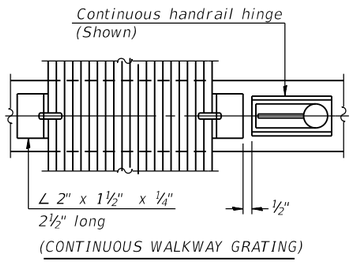


(AT WALKWAY GRATING SPLICE)



DETAIL W

(Walkway grating)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
IS0161094R050.1	1400+40.09	6"	3'-6"	4'-6"	8'-6"

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
2. Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
3. If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet 0S-A-11.)
4. PL ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.
5. Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.
6. Based on actual height of tallest sign given on 0S-A-1.

0S-A-10 2-17-2017

HBM ENGINEERING GROUP, LLC

USER NAME = marlan.agamy	DESIGNED - JJS, AMS	REVISED -	
	CHECKED - MI, MAI	REVISED -	
PLOT SCALE = N.T.S	DRAWN - AMS	REVISED -	
PLOT DATE = 8/16/2019	CHECKED - MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET SS-08 OF SS-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	201
		CONTRACT NO. 62J31		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\AECOM-NA-AWS1.aecomonline.local:AECOM_DS02_NA\Documents\01 AmericasTransportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Sign Structures\62A77 Sign Structure\62J31-Span-SS150-SignStruct.dgn

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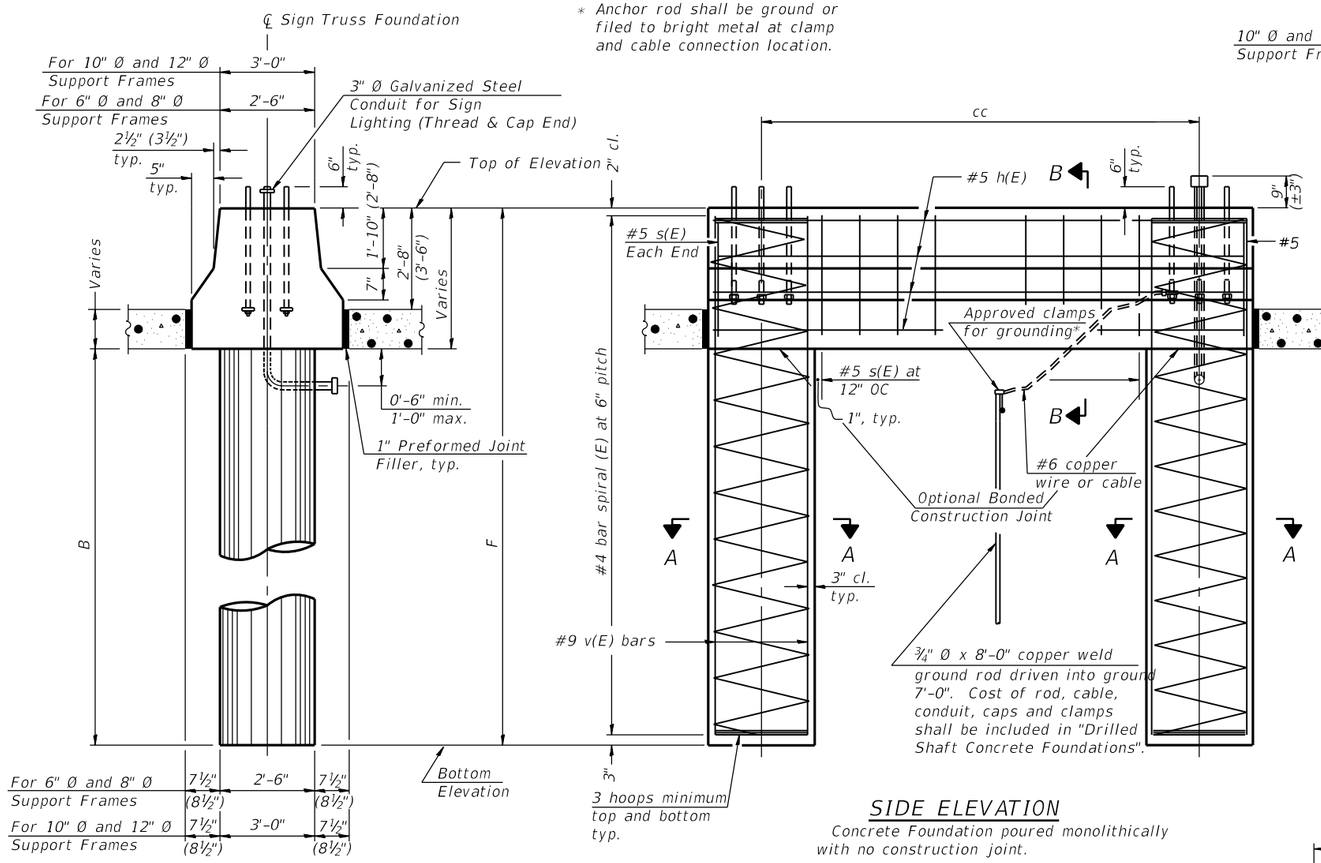


NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

Pipe Support Frames	cc	M	a	a/2
6"Ø	7'-0"	9'-6"	0'-11"	5½"
8"Ø	7'-6"	10'-0"	1'-1½"	6¾"
10"Ø	8'-3"	11'-3"	1'-3"	7½"
12"Ø	9'-0"	12'-0"	1'-6"	9"

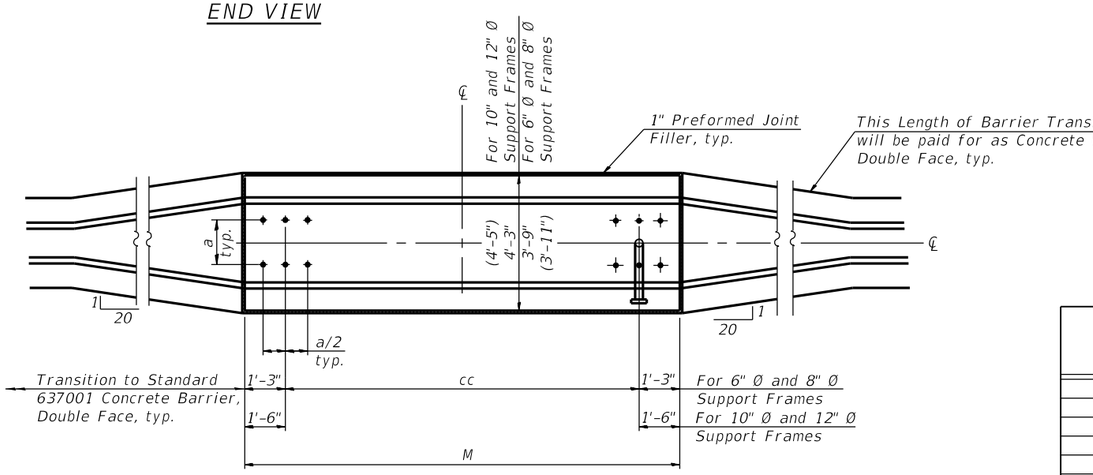
All dimensions in parenthesis are for 42" high barrier.

BAR LIST - EACH FOUNDATION

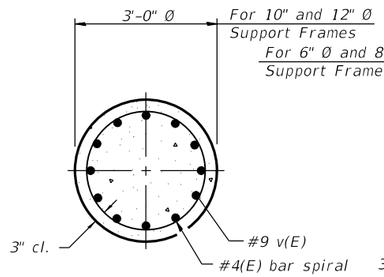
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	——
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	——
v(E)	24	#9	F less 0'-5"	——
#4(E) bar spiral _ see Side Elevation				

6" Ø and 8" Ø Support Frame

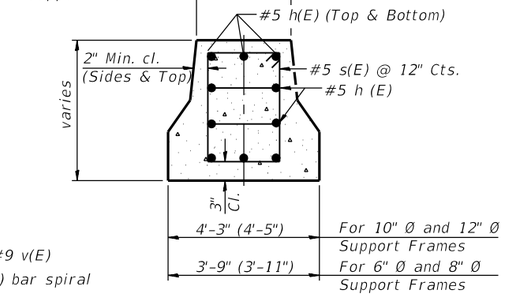
10" Ø and 12" Ø Support Frame



PLAN



SECTION A-A



SECTION B-B

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
IS0161094R050.1	1400+40.09	583.45	564.66	13'-6"	18'-9½"	-	-	-	-	11.4

0S4-MED 2-17-2017

HBM ENGINEERING GROUP, LLC

USER NAME = marlan.agamy	DESIGNED - JJS, AMS	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE = N.T.S	DRAWN - AMS	REVISED -
PLOT DATE = 8/16/2019	CHECKED - MI, MAI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET SS-09 OF SS-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	202
		CONTRACT NO. 62J31		
		ILLINOIS	FED. AID PROJECT	

FILE NAME: pw:\\AECOM-NA-AWS1.aecomonline.local:AECOM_DS02_NA\Documents\01 AmericasTransportation\60269938 Circle\Phase_II\000_CAD\008_Structural\Sign Structures\62A77 Sign Structure\62J31-Span-SS151-SignStruct.dgn

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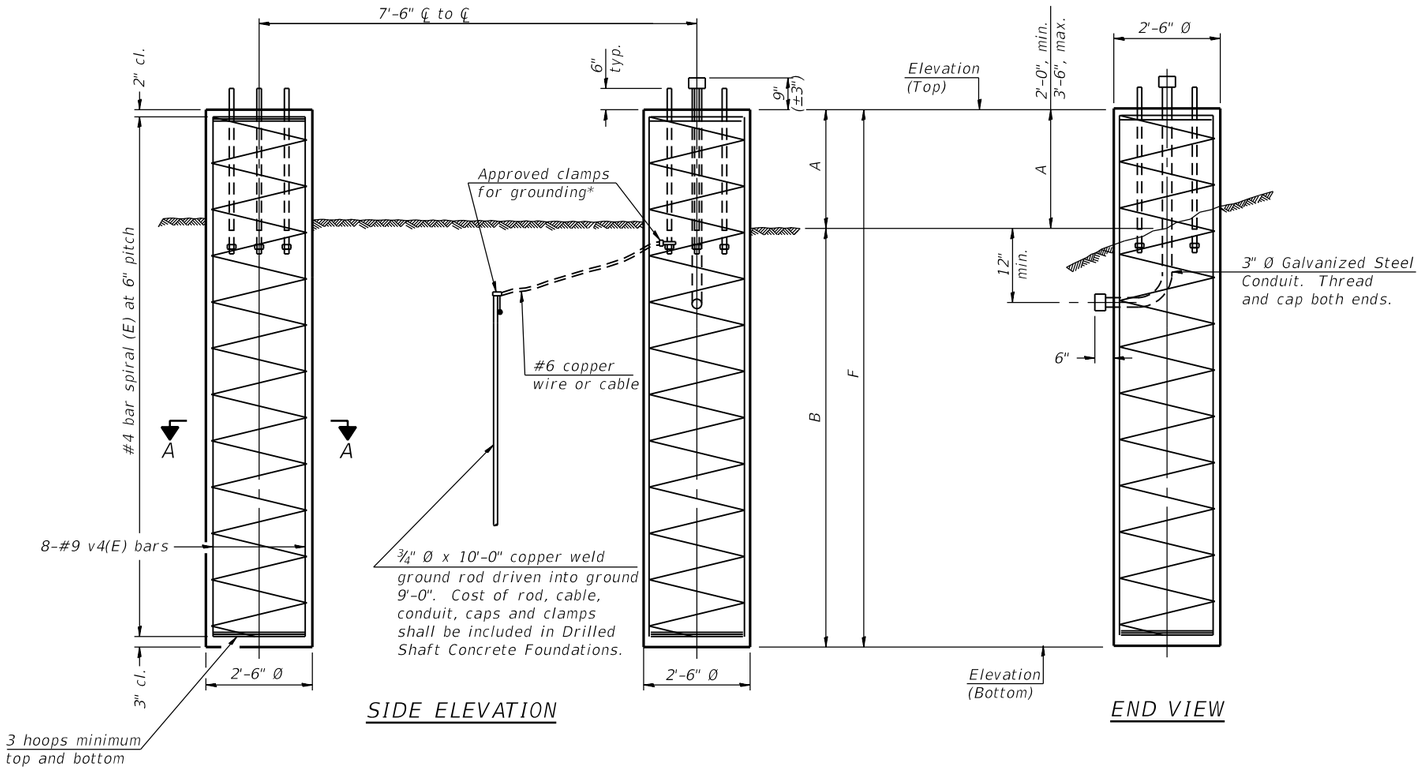
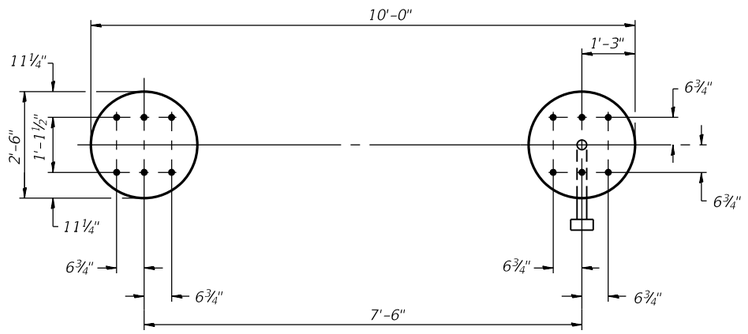


SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	———
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

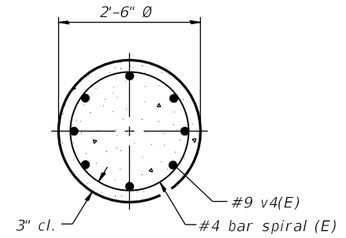
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 8" Ø SUPPORT FRAME TYPE I-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
IS0161094R050.1	1400+40.09	-	-	-	-	-	581.45	565.15	2'-9½"	13'-6"	16'-3½"	6.0

0S4-F2 2-17-2017

HBM ENGINEERING GROUP, LLC

USER NAME = marlan.agamy	DESIGNED - JJS, AMS	REVISED -		
	CHECKED - MI, MAI	REVISED -		
PLOT SCALE = N.T.S	DRAWN - AMS	REVISED -		
PLOT DATE = 8/16/2019	CHECKED - MI, MAI	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
SHEET SS-10 OF SS-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	203
		CONTRACT NO. 62J31		
		ILLINOIS	FED. AID PROJECT	

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ELECTRICAL SYMBOLS FOR PROPOSED WORK

LIGHT TOWER:
LED LUMINAIRES, TYPE I
NUMBER INDICATES TOWER TYPE

TYPE — TOWER HEIGHT
13 - 130 FEET
15 - 150 FEET

LIGHTING UNIT: TYPE AS INDICATED

47'-6" M.H., 6 FT. DAVIT ARM
LED M-C-III LUMINAIRE.
MOUNTED ON PARAPET WALL

47'-6" M.H., 12 FT. DAVIT ARM
LED M-C-III LUMINAIRE.
MOUNTED ON PARAPET WALL

47'-6" M.H., 2-6 FT. DAVIT ARM
2-LED M-C-III LUMINAIRES.
MOUNTED ON PARAPET WALL

TEMPORARY LED LUMINAIRE AND POLE;
80 FOOT WOOD POLE

TEMPORARY LIGHTING UNIT: 80 FOOT WOOD POLE WITH FOUR TYPE I LED HIGH MAST LUMINAIRES

UNDERPASS LUMINAIRE:
LED, TYPE AS SHOWN ON PLANS (PRIMARY DISTRIBUTION PATTERN DIRECTION AS INDICATED BY ARROW)

MANHOLE

ELECTRIC HANDHOLE: TYPE AS INDICATED

TYPE E1: PRECAST CONCRETE, 21.5"x21.5"x30", IDOT STANDARD 814001

TYPE E2: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x30", IDOT STANDARD 814001

TYPE C1: COMMUNICATIONS VAULT, 49⅝"x32⅛"x57"

TYPE S1: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x36"

TYPE S2: PRECAST CONCRETE-HEAVY DUTY SPECIAL, 30"x30"x36"

DOUBLE ELECTRIC HANDHOLE

JUNCTION BOX: TYPE AND SIZE AS INDICATED ON PLANS

PULL BOX: TYPE AND SIZE AS INDICATED ON PLANS

TELEPHONE CONNECTION

FIBER OPTIC COMMUNICATIONS HUT

LIGHTED SIGN STRUCTURE-CANTILEVER TYPE (NUMBER OF FLUORESCENT FIXTURES AS INDICATED - TYP.)

LIGHTED SIGN STRUCTURE-TRUSS TYPE

LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE

DYNAMIC MESSAGE SIGN

FLASHING BEACON SIGN

CLOSED CIRCUIT TELEVISION CAMERA

MICROWAVE DETECTOR

DETECTOR LOOP

CONTROLLER CABINET: LIGHTING, RADIO CONTROL DUPLEX TYPE WITH SCADA (DOOR SIDE AS INDICATED)

CONTROLLER CABINET: SURVEILLANCE

CONTROLLER CABINET: SURVEILLANCE, TYPE 334

RAMP METER SIGNAL POLE/HEAD

RAMP METER FLASHER POST

TEMPORARY WOOD POLE, LENGTH AS INDICATED ON THE PLANS

HIGHWAY ADVISORY RADIO ANTENNA

ELECTRIC UTILITY POLE

CCTV CAMERA POLE

POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)

PAD MOUNTED ELECTRIC UTILITY TRANSFORMER

GROUND ROD

MAIN SERVICE FUSED DISCONNECT SWITCH (RATING AS INDICATED)

PHOTOCELL

AERIAL CABLE

FLEXIBLE CONDUIT

RACEWAY EMBEDDED IN STRUCTURE

EXPOSED CONDUIT

RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT

TYPE AS SHOWN ON PLANS CONDUIT SLEEVE, INSTALLED BELOW PAVEMENT

UNDERGROUND REINFORCED CONCRETE ENCASED CONDUIT DUCTBANK, UNLESS NOTED OTHERWISE. (NUMBER, TYPE, AND SIZE OF DUCTS AS SHOWN)

CONDUIT TURNED DOWN

CONDUIT TURNED UP

ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

EXISTING LIGHT TOWER

EXISTING LIGHTING UNIT, TWIN LUMINAIRE

EXISTING LIGHTING UNIT

EXISTING TEMPORARY LIGHTING UNIT

EXISTING CDOT LIGHTING UNIT

EXISTING UNDERPASS LUMINAIRE

EXISTING ELECTRIC MANHOLE

EXISTING ELECTRIC HANDHOLE

EXISTING JUNCTION BOX

EXISTING PULL BOX

EXISTING TELEPHONE CONNECTION

EXISTING FIBER OPTIC COMMUNICATIONS HUT

EXISTING ELECTRIC HANDHOLE/MANHOLE

EXISTING CDOT SURVEILLANCE CABINET

EXISTING CDOT ELECTRIC HANDHOLE/MANHOLE

EXISTING LIGHTED SIGN STRUCTURE-CANTILEVER TYPE

EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE

EXISTING LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE

EXISTING DYNAMIC MESSAGE SIGN

EXISTING FLASHING BEACON SIGN

EXISTING CLOSED CIRCUIT TELEVISION CAMERA

EXISTING MICROWAVE DETECTOR

EXISTING DETECTOR LOOP

EXISTING LIGHTING CONTROLLER, DUPLEX

EXISTING CONTROLLER CABINET

EXISTING RAMP METER FLASHER

TEMPORARY ITS WOOD POLE

EXISTING HIGHWAY ADVISORY RADIO ANTENNA

EXISTING CCTV CAMERA POLE

EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED

EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED

EXISTING CONCEALED CONDUIT IN STRUCTURE

EXISTING EXPOSED CONDUIT

EXISTING RACEWAY OR DIRECT BURIED CABLE WITHOUT ENCASEMENT

EXISTING CONCEALED CONDUIT UNDERGROUND, TRENCHED OR PUSHED

EXISTING ELECTRIC CABLE IN CONDUIT SLEEVE

EXISTING AERIAL CABLE TO REMAIN

EXISTING ELECTRICAL EQUIPMENT TO BE ABANDONED

GENERAL ELECTRICAL CALLOUTS

NUMBER OF LUMINAIRES
CONTROLLER DESIGNATION
CIRCUIT DESIGNATION (RED PHASE)
CIRCUIT DESIGNATION (BLACK PHASE)
UNIT NUMBER
13 — 7 WAB1

CONTROLLER DESIGNATION
CIRCUIT DESIGNATION
LIGHTING UNIT NUMBER
WA3
STA. 1700+00, 65' RT

CKTS. C&D: 3#2, 1#4 GND, 1 1/4" UD
L

4" CONDUIT SLEEVE SCH. 80 PVC BELOW PAVEMENT

H — HANDHOLE NUMBER
HHXX — TYPE DESIGNATION
TYPE E1

J — JB, SS, 18"x18"x8" ATS

CONDUIT-SPARE
CONDUIT WITH CABLE OR UNITDUCT
DUCTBANK LENGTH
150LF

FIBER OPTIC
START LOCATION
END LOCATION
FO O1 C01 - CABLE DESIGNATOR

NN SHELTER NUMBER
C CCTV CAMERA
H HAR
V VEHICLE DETECTOR
R RAMP METER
S DYNAMIC MESSAGE SIGN

4 SM, 1-4
FIBER COUNT
SINGLE MODE
NUMBER OF FIBERS

NUMBER OF LUMINAIRES
CONTROLLER DESIGNATION
SIGN STRUCTURE NUMBER
6 — W1

PROPOSED IDOT CONTROLLER "U"
STA. 1528+10, 160LT

TYPICAL EXISTING TO BE REMOVED SYMBOLS

EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING UNDERPASS LUMINAIRE TO BE REMOVED

EXISTING JUNCTION BOX TO BE REMOVED

EXISTING LIGHTED SIGN STRUCTURE-CANTILEVER TYPE TO BE REMOVED

DYNAMIC MESSAGE SIGN TO BE REMOVED

FLASHING BEACON SIGN TO BE REMOVED

EXISTING LIGHTING CONTROLLER, DUPLEX TO BE REMOVED

EXISTING CONTROLLER CABINET TO BE REMOVED

EXISTING DETECTOR LOOP TO BE REMOVED

EXISTING RAMP METER SIGNAL POLE/HEAD TO BE REMOVED

EXISTING RAMP METER FLASHER TO BE REMOVED

EXISTING POLE MOUNTED UTILITY SERVICE CONNECTION TO BE REMOVED

EXISTING LIGHT TOWER, PAD, AND FOUNDATION TO BE REMOVED

EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED

E-01

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-sht-Light-01	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

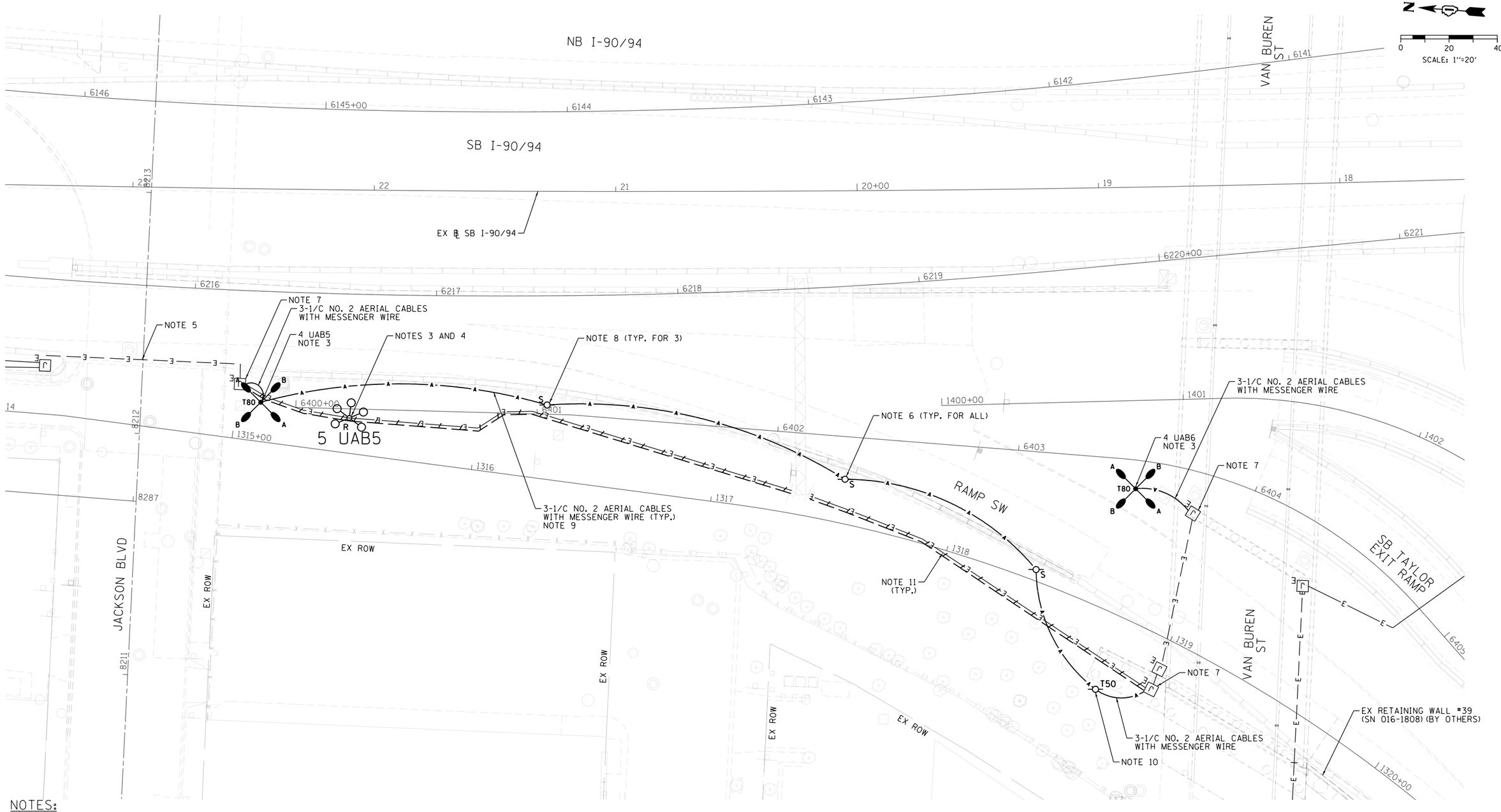
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT ELECTRICAL SYMBOLS

SCALE: N.T.S. | SHEET 1 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	204
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FILE PATH = pw:\\AECOM-NA-AWS1.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\016 Electrical\Sheets\62J31 Circuit\D162J31-sht-Light-01



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. THE EXISTING LIGHT TOWER 5 UAB5 SHALL NOT BE REMOVED UNTIL THE TEMPORARY LIGHTING UNITS HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED SUCH THAT THE EXISTING, TEMPORARY, OR PROPOSED LIGHTING UNITS ARE OPERATIONAL DURING NIGHTTIME HOURS.
4. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE. THE HIGH MAST LUMINAIRES SHALL BE SALVAGED TO IDOT, UNLESS NOTED OTHERWISE.
5. THE EXISTING CONDUITS, JUNCTION BOXES, AND LIGHTING CIRCUIT FEEDS ATTACHED TO THE WEST JACKSON ABUTMENT SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
6. PROVIDE 50 FEET OF SLACK CABLE AT EACH TEMPORARY WOOD POLE TO ALLOW FOR RELOCATION OF AERIAL CABLES DURING THE DIFFERENT STAGES OF CONSTRUCTION.
7. SEE IDOT STANDARD BE-801 FOR AERIAL CABLE INSTALLATION DETAILS FOR ROUTING THE AERIAL CABLES INTO THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE. CONNECT THE TEMPORARY AERIAL CABLES TO THE LIGHTING CIRCUIT CABLES WITHIN THE JUNCTION BOX.
8. THE TEMPORARY AERIAL CABLES SHALL BE ATTACHED TO THE WOOD POLES INSTALLED FOR THE TEMPORARY AERIAL FIBER OPTIC CABLES. SEE THE STAGE 1 ITS DRAWINGS FOR THE INSTALLATION LOCATIONS OF THE TEMPORARY WOOD POLES.
9. THE TEMPORARY AERIAL FEED SHALL BE REMOVED AND RELOCATED BEHIND PROPOSED RETAINING WALL 38, AS SHOWN ON DRAWING E-03, TO AVOID CONFLICT WITH PROPOSED CONSTRUCTION.
10. THE LOCATION OF THE WOOD POLE SHOWN IS AN APPROXIMATION. THE FINAL INSTALLATION LOCATION OF THE POLE SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK TO BE PERFORMED BY OTHER DISCIPLINES.
11. EXISTING LIGHTING CIRCUITS TO BE ABANDONED IN PLACE, UNLESS NOTED OTHERWISE.

E-02

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-SHT-Light-02	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

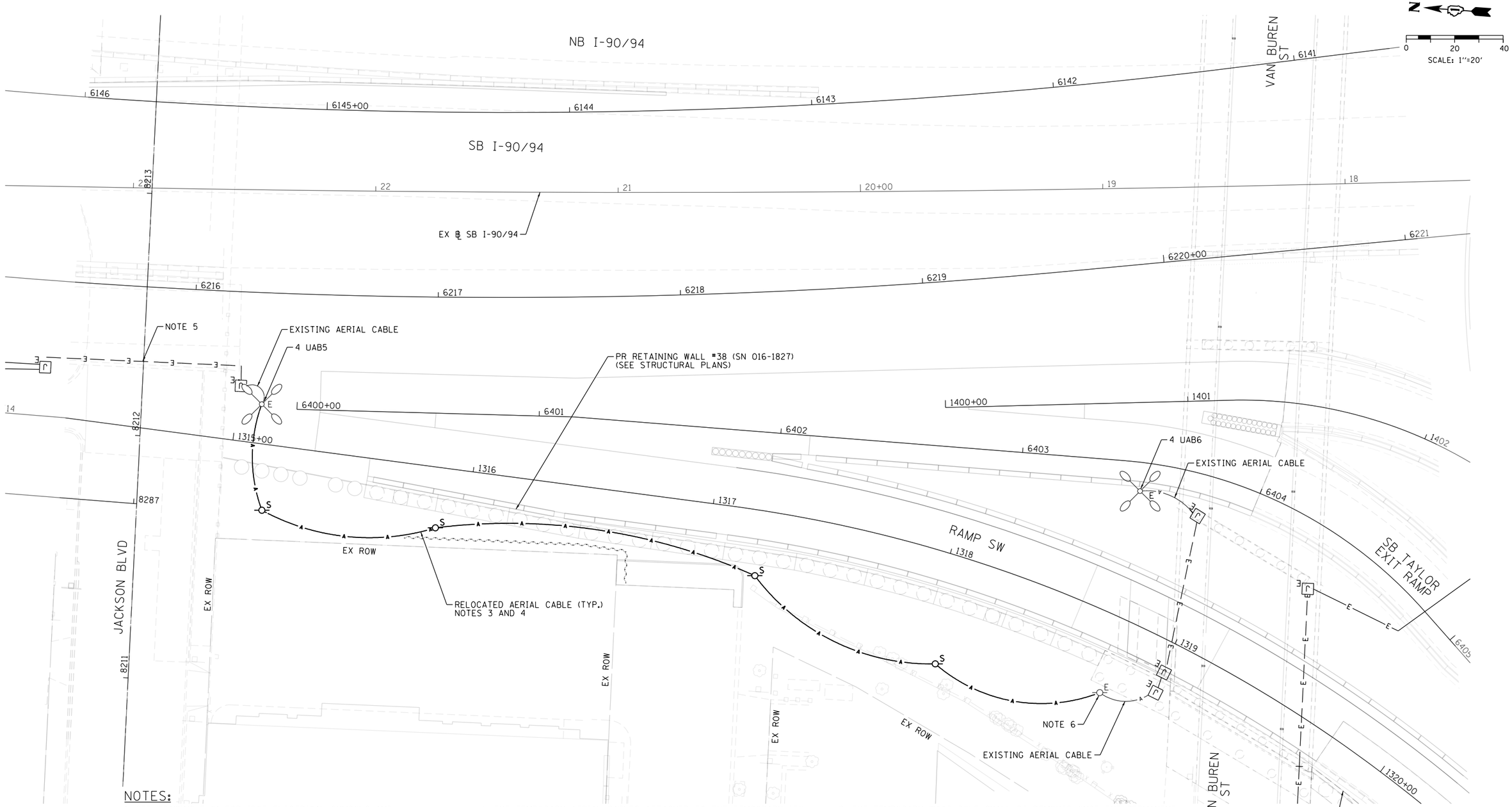
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/TEMPORARY LIGHTING PLAN – STAGE 1
I-90/94

SCALE: 1"=20' | SHEET 2 OF 11 SHEETS | STA. 6215+50.00 TO STA. 6221+05.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	205
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FILE PATH = pw:\\AECOM-NA-AWS1.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000.CAD\016.Electrical\Sheets\62J31 Contract\D162J31-SHT-Light-02



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. RELOCATE THE EXISTING AERIAL CABLES SHOWN ON E-02 TO THE TEMPORARY ITS WOOD POLES INSTALLED BEHIND PROPOSED RETAINING WALL 38. THE REMOVAL AND RELOCATION WORK SHALL BE INCLUDED IN THE COST OF "REMOVE AND REINSTALL AERIAL CABLE" PAY ITEM. SEE THE ITS STAGE 2 DRAWINGS FOR THE INSTALLATION LOCATIONS OF THE TEMPORARY WOOD POLES.
4. THE TEMPORARY AERIAL CABLES ATTACHED TO THE TEMPORARY ITS WOOD POLES SHALL BE REMOVED ONCE THE PERMANENT LIGHTING FEEDS SHOWN ON E-05 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT, UNLESS NOTED OTHERWISE. THE REMOVAL OF THESE TEMPORARY AERIAL CABLES SHALL BE PAID FOR BY THE "REMOVE AERIAL CABLE" PAY ITEM.
5. THE EXISTING CONDUITS, JUNCTION BOXES, AND LIGHTING CIRCUIT FEEDS ATTACHED TO THE WEST JACKSON ABUTMENT SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
6. THE TEMPORARY WOOD POLE SHALL BE REMOVED ONCE THE PERMANENT LIGHTING FEEDS SHOWN ON E-05 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT, UNLESS NOTED OTHERWISE. THE REMOVAL OF THE AERIAL CABLES ATTACHED TO THE WOOD POLE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY ITEM.

E-03

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-SHT-Light-03	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN – STAGE 2
I-90/94

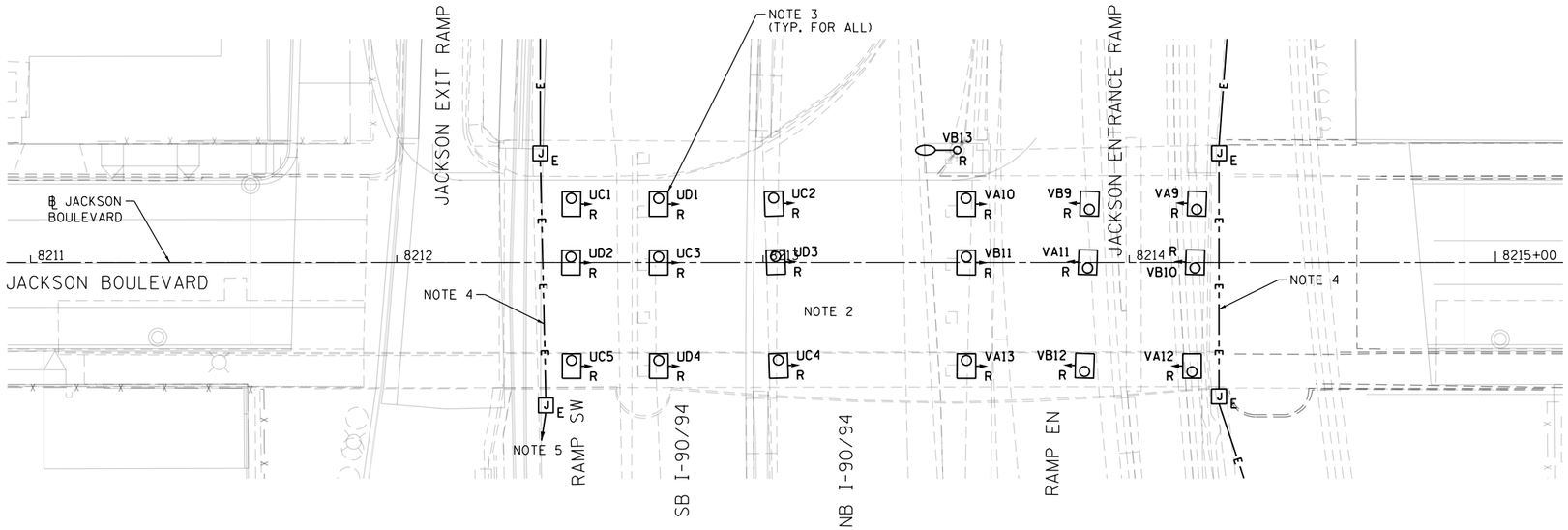
SCALE: 1"=20' | SHEET 3 OF 11 SHEETS | STA. 6215+50.00 TO STA. 6221+05.00

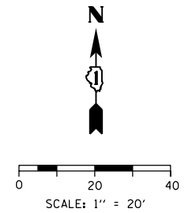
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	206
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FILE PATH = pw:\\AECOM-NA-AWS1.aecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase_II\000_CAD\016_Electrical\Sheets\62J31_Contract\D162J31-SHT-Light-03

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, JUNCTION BOXES, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM.
4. THE EXISTING CONDUITS, JUNCTION BOXES, AND LIGHTING CIRCUIT FEEDS ROUTED ACROSS THE ABUTMENTS SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
5. SEE DRAWINGS E-02, E-03 AND E-05 FOR THE CONTINUATION OF THE FEEDS FOR THE VARIOUS TEMPORARY AND PERMANENT CONDITIONS.





E-04

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-sht-Light-04	DESIGNED - TJL	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

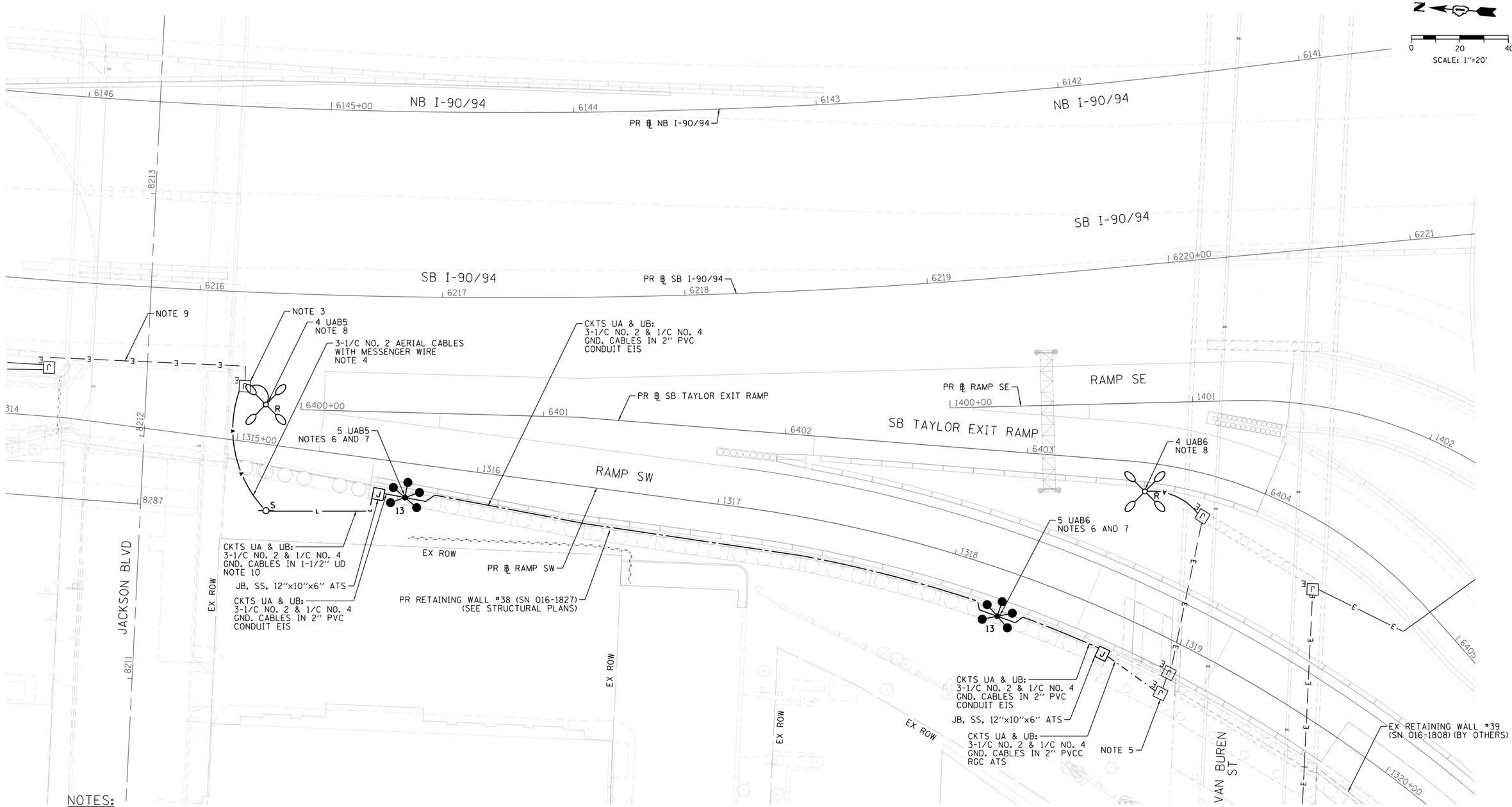
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLAN
JACKSON BOULEVARD

SCALE: 1"=20' | SHEET 4 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	207
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FILE PATH = pw:\\AECOM-NA-ANSI.eecomonline.local\AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000.CAD\016.Electrical\Sheets\62J31_Contract\D162J31-sht-Light-04



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. SEE IDOT STANDARD BE-801 FOR AERIAL CABLE INSTALLATION DETAILS FOR ROUTING THE AERIAL CABLES INTO THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE. CONNECT THE TEMPORARY CABLES TO THE LIGHTING CIRCUIT CABLES WITHIN THE JUNCTION BOX.
4. THE TEMPORARY AERIAL CABLE SHALL BE ATTACHED TO THE WOOD POLE INSTALLED FOR THE TEMPORARY AERIAL FIBER OPTIC CABLES. PROVIDE 50 FEET OF SLACK CABLE FOR ANY FUTURE RELOCATION. THE TEMPORARY AERIAL FEED SHALL REMAIN AT THE END OF THE CONTRACT. SEE THE ITS DRAWINGS FOR THE INSTALLATION LOCATIONS OF THE TEMPORARY WOOD POLE.
5. DRILL THE EXISTING JUNCTION BOX ATTACHED TO THE BACK SIDE OF THE VAN BUREN STREET WING WALL FOR THE PROPOSED 2" CONDUIT ATTACHED TO STRUCTURE. ROUTE THE PROPOSED LIGHTING CIRCUIT CABLES THROUGH THE 2" CONDUIT INTO THE EXISTING JUNCTION BOX AND MAKE ALL NECESSARY CONNECTIONS.
6. SEE DRAWING E-09 FOR THE CONDUIT INSTALLATION DETAIL FOR HIGH MAST LIGHT TOWER FOUNDATION IN RETAINING WALL.
7. SEE THE STRUCTURAL PLANS FOR THE HIGH MAST LIGHT TOWER FOUNDATION LOCATION AND DETAILS.
8. THE EXISTING TEMPORARY LIGHT TOWER SHALL NOT BE REMOVED UNTIL THE PROPOSED LIGHT TOWERS 5 UAB5 AND 5 UAB6 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED SUCH THAT THE EXISTING, TEMPORARY, OR PROPOSED LIGHTING UNITS ARE OPERATIONAL DURING NIGHTTIME HOURS.
9. THE EXISTING CONDUITS, JUNCTION BOXES, AND LIGHTING CIRCUIT FEEDS ATTACHED TO THE WEST JACKSON ABUTMENT SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
10. SEE DRAWING E-08 FOR THE RW #38 CONDUIT ROUTING DETAIL FOR ROUTING THE UNIT DUCT FROM THE TEMPORARY WOOD POLE TO THE CONDUIT EMBEDDED IN THE RETAINING WALL FOR THE WALL MOUNTED HIGH MAST LIGHT TOWERS.

E-05

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-SHT-Light-05	DESIGNED - TJL	REVISED -	
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PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-90/94

SCALE: 1"=20' | SHEET 5 OF 11 SHEETS | STA. 6215+50.00 TO STA. 6221+05.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	208
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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SYMBOLS LEGEND

IDOT LIGHTING CONTROLLER

HIGH MAST LIGHT TOWER
400 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

HIGH MAST LIGHT TOWER
LED LUMINAIRES
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

UNDERPASS LIGHTING UNIT
55 WATT LPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

UNDERPASS LIGHTING UNIT
70 OR 100 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

UNDERPASS LIGHTING UNIT
LED LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

LOAD TABLE
LIGHTING CONTROLLER ''V''

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	13.1	3133	B	14.8	3546
C	25.1	6019	D	20.2	4855
E	30.1	7214	F	28.2	6758
G	20.6	4932	H	16.8	4020
I	20.9	5027	J	20.3	4866
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
TOTAL	109.7	26,325	TOTAL	100.2	24,045

LIGHTING CONTROLLER 'V'
240/480, 1 PHASE, 3 WIRE
(2)-175A, 2-POLE MAIN BREAKERS
(2)-200A, 2-POLE CONTACTORS
(16)-70A, 1-POLE, BRANCH BREAKERS

℄ FULTON STREET
℄ LAKE STREET
℄ RANDOLPH STREET
℄ WASHINGTON BOULEVARD
℄ MADISON STREET
℄ MONROE STREET
℄ ADAMS STREET
℄ VAN BUREN STREET

VIJ4 VIJ3 VAB5 VAB6 LED LED
VGH2 VGH1 VCD3 VCD4
VEF1 VEF2

VJ8 VI6 VJ6 VI7 VJ7 VI5
VJ4 VI2 VJ1 VI4 VJ3 VI1 VJ5 VI3 VJ2
VG5 VH3 VG1 VH5 VG3 VH1 VG6 VH4 VG2 VH6 VG4 VH2
VE7 VF9 VE11 VF7 VE9 VF11 VE8 VF10 VE12 VF8 VE10 VF12
VF1 VE3 VF5 VE1 VF3 VE5 VF2 VE4 VF6 VE2 VF4 VE6
VD14 LED VC13 LED VD13 LED VC8 LED VD7 LED VC7 LED VD9 LED VC9 LED VD8 LED VC11 100 VD10 LED VC10 LED
VC1 VD3 VC5 VD1 VC3 VD5 VC2 VD4 VC6 VD2 VC4 VD6
70 VA1 70 VB3 70 VA6 70 VB1 70 VA4 70 VB6 70 VA2 70 VB4 70 VA7 100 VB2 100 VA5 100 VB7 100 VA3 100 VB5 100 VA8

E-06

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162J31-sht-Light-06	DESIGNED - TJL	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER 'V'
WIRING DIAGRAM

SCALE: N.T.S. | SHEET 6 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	209
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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℄ FULTON STREET
℄ LAKE STREET
℄ RANDOLPH STREET
℄ WASHINGTON BOULEVARD
℄ MADISON STREET
℄ MONROE STREET
℄ ADAMS STREET
℄ VAN BUREN STREET

UJ8 UI6 UJ6
UI7 UJ7 UI5

UJ5 UI3 UJ2
UI4 UJ3 UI1
UJ4 UI2 UJ1

UH6 UG4 UH2
UG6 UH4 UG2
UH5 UG3 UH1
UG5 UH3 UG1

UF14 UE16 UF18
UE14 UF16 UE18
UF13 UE15 UF17
UE13 UE15 UE17

UE8 UF10 UE12
UF8 UE10 UF12
UE7 UF9 UE11
UF7 UE9 UF11

LED UF19 LED UE19 LED UF20
LED UE18 LED UF17 LED UE14
LED UF5 LED UE6 LED UF6
LED UE4 LED UF4 LED UE5

UD5 UC7 UD9
UC5 UD7 UC9
UD4 UC6 UD5
UC4 UD6 UC8

100 UB3 100 UA5 100 UB8
100 UA2 100 UB5 100 UA7
70 UB2 70 UA4 70 UB7
70 UA1 70 UB4 70 UA6
70 UB1 70 UA3 70 UB6

UEF1 UEF2 UEF3

UGH2 UGH1 UCD4

UIJ4 UIJ3 LED UAB5 LED UAB6

LIGHTING CONTROLLER 'U'
240/480, 1 PHASE, 3 WIRE
(2)-175A, 2-POLE MAIN BREAKERS
(2)-200A, 2-POLE CONTACTORS
(16)-70A, 1-POLE, BRANCH BREAKERS

SYMBOLS LEGEND

IDOT LIGHTING CONTROLLER

HIGH MAST LIGHT TOWER
400 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

LED
HIGH MAST LIGHT TOWER
LED LUMINAIRES
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

UNDERPASS LIGHTING UNIT
55 WATT LPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

70
UNDERPASS LIGHTING UNIT
70 OR 100 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

LED
UNDERPASS LIGHTING UNIT
LED LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)

LOAD TABLE
LIGHTING CONTROLLER "U"

CIRCUIT	RED PHASE AMPS	RED PHASE WATTS	CIRCUIT	BLACK PHASE AMPS	BLACK PHASE WATTS
A	11.9	2862	B	12.4	2965
C	11.2	2683	D	13.1	3139
E	32.4	7766	F	30.5	7310
G	18.8	4507	H	15.0	3595
I	18.1	4346	J	17.4	4186
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
TOTAL	92.4	22,165	TOTAL	88.3	21,196

E-07

FILE PATH = pw:\AECOM-NA-AWS1.aecomonline.local:AECOM.DS02.NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000.CAD\016.Electrical\Sheets\62J31_Contract\D162J31-sht-Light-07

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

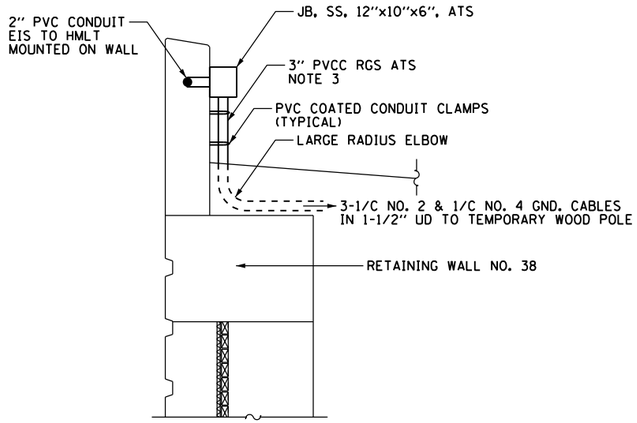
D162J31-sht-Light-07	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

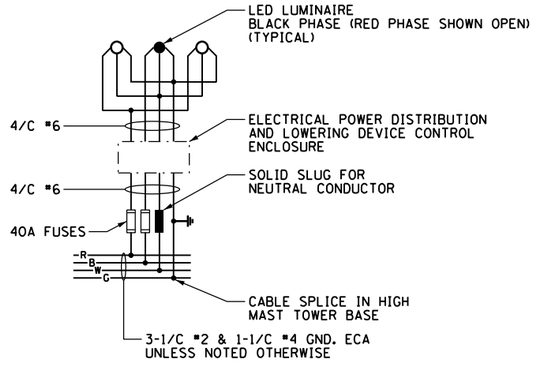
IDOT LIGHTING CONTROLLER 'U'
WIRING DIAGRAM

SCALE: N.T.S. | SHEET 7 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	210
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



RETAINING WALL NO. 38 CONDUIT ROUTING DETAIL
NOT TO SCALE



TYPICAL HIGH MAST LIGHT TOWER WIRING DIAGRAM
NOT TO SCALE

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.
3. PROVIDE A 3-INCH PVCC COATED RIGID STEEL CONDUIT AND 90-DEGREE ELBOW ATTACHED TO STRUCTURE FROM THE JUNCTION BOX TO BELOW FINAL GRADE. ROUTE UNIT DUCT FROM THE TEMPORARY WOOD POLE THROUGH THE CONDUIT TO THE JUNCTION BOX AS SHOWN ON DRAWING E-04.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

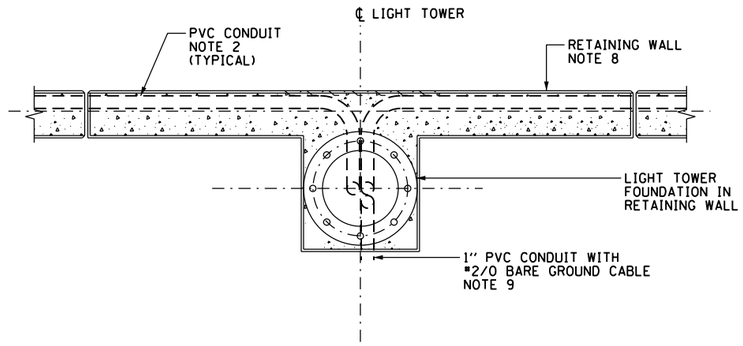
D162J31-sht-Light-08	DESIGNED - TJL	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

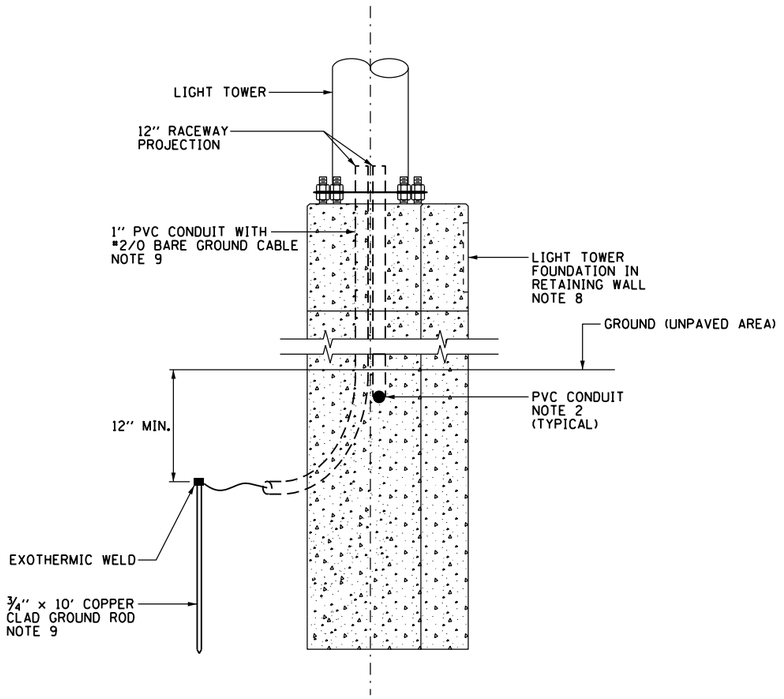
ELECTRICAL DETAILS

SCALE: N.T.S. | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	211
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



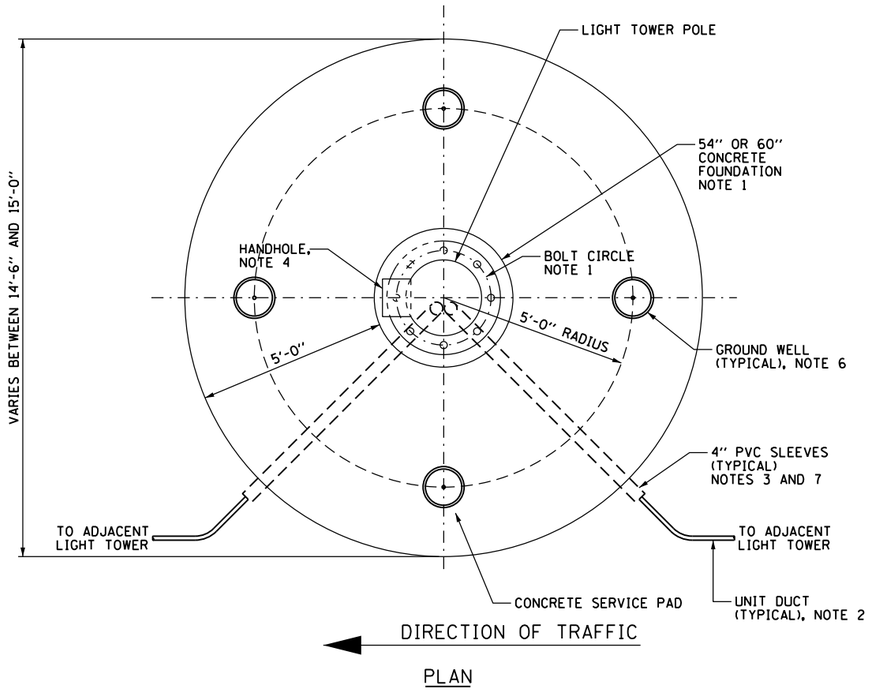
TOP VIEW



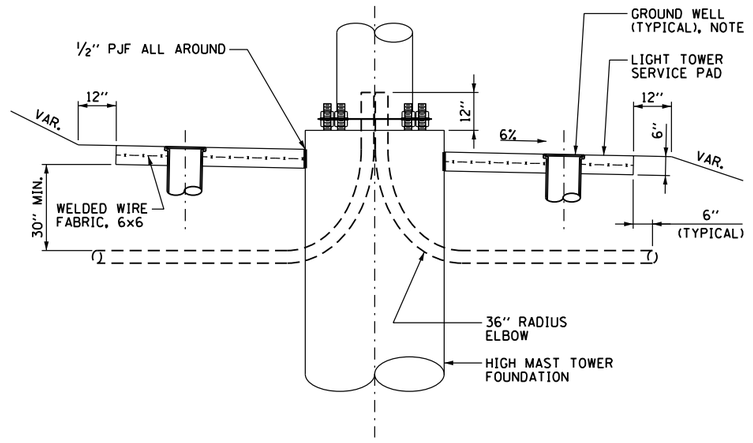
SIDE ELEVATION VIEW

CONDUIT INSTALLATION DETAIL FOR HIGH MAST LIGHT TOWER FOUNDATION IN RETAINING WALL

NOT TO SCALE



PLAN



ELEVATION - SHOWN WITHOUT CURB

GROUND MOUNTED HIGH MAST TOWER SERVICE PAD, GROUNDING AND CONDUIT INSTALLATION DETAILS

NOT TO SCALE

NOTES:

1. SEE IDOT STANDARD DRAWING BE-506 OR BE-511 FOR ADDITIONAL HIGH MAST LIGHT TOWER FOUNDATION AND GROUND WELL DETAILS.
2. SEE ELECTRICAL PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF RACEWAY AND LIGHTING CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER FOUNDATION.
3. PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD.
4. THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
5. ALL EMPTY SLEEVES MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.
6. INSTALL GROUND WELLS 5'-0" AS MEASURED FROM THE CENTER LINE OF THE HIGH MAST TOWER TO THE CENTER LINE OF THE WELL.
7. PVC CONDUIT SLEEVES SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
8. SEE STRUCTURAL PLANS FOR THE FOUNDATION INSTALLATION DESIGN DETAILS.
9. ALL NECESSARY WORK AND MATERIALS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

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STATE OF ILLINOIS
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LIGHT TOWER SERVICE PAD AND CONDUIT DETAILS

SCALE: N.T.S. | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	212
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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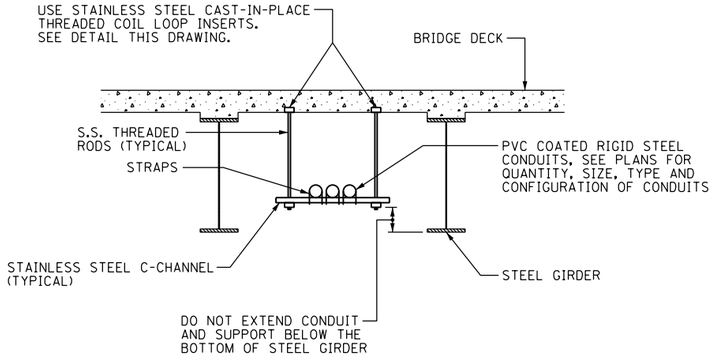
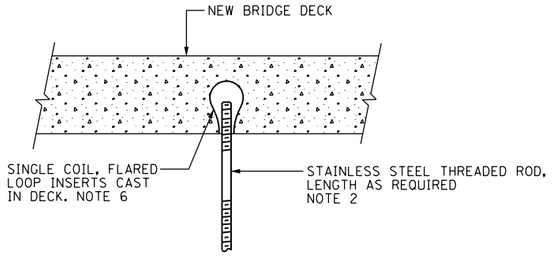


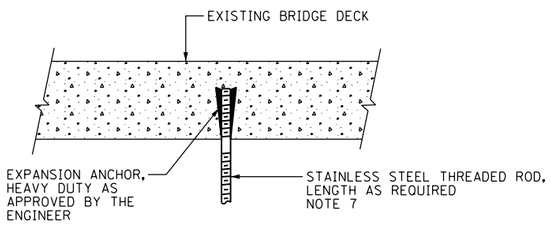
TYPICAL CONDUIT SUPPORT ATTACHED TO BRIDGE DECK DETAIL

SCALE: NOT TO SCALE
NOTES 3 & 5

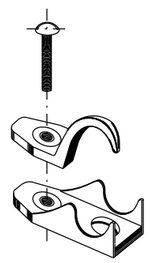


NEW BRIDGE DECK THREADED ROD INSTALLATION ANCHOR DETAILS

SCALE: NOT TO SCALE

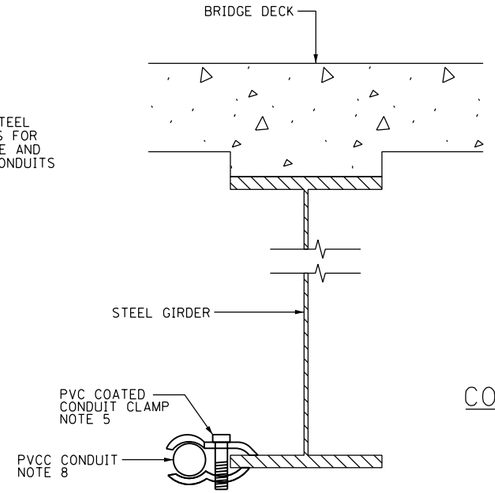


EXISTING BRIDGE DECK THREADED ROD INSTALLATION ANCHOR DETAILS

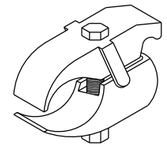


PVC COATED CONDUIT CLAMP

NOT TO SCALE NOTE 7

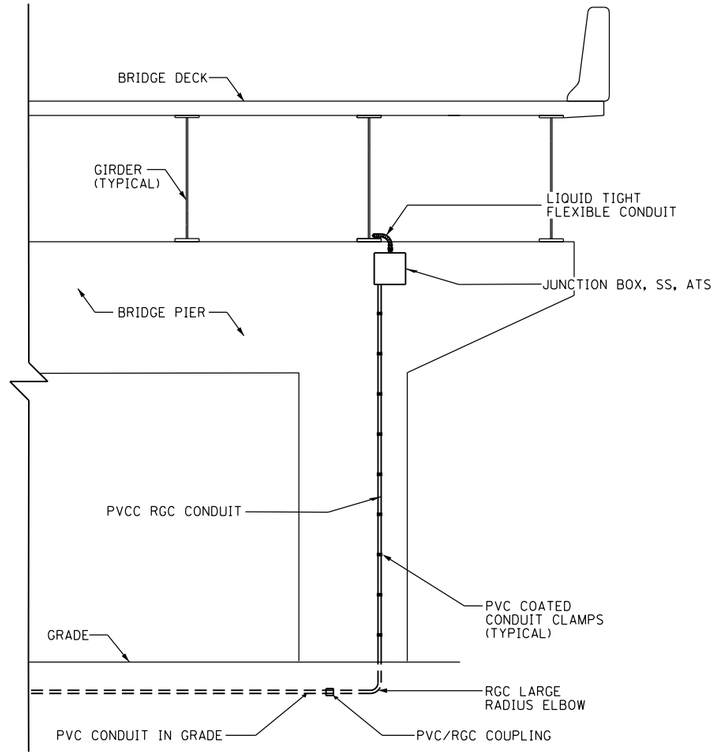


CONDUIT BEAM CLAMPED INSTALLATION DETAIL



PVC COATED CONDUIT BEAM CLAMP

NOT TO SCALE NOTE 7

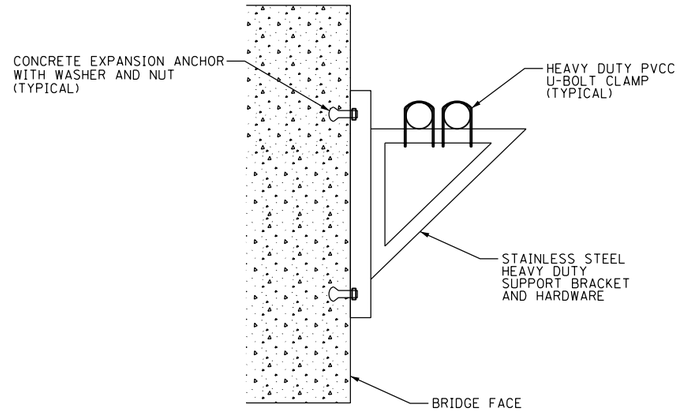


VERTICAL CONDUIT ATTACHED TO STRUCTURE DETAIL

NOT TO SCALE

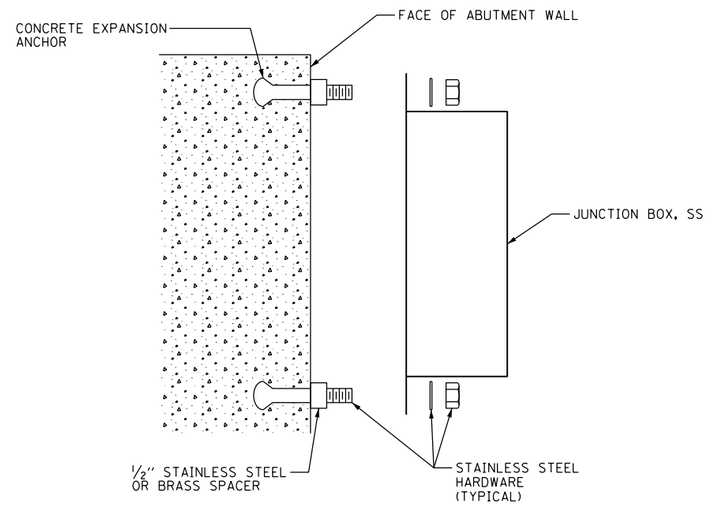
NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MUST COORDINATE THREADED ROD END SIZES WITH THE C-CHANNEL AND FLARED LOOP INSERT MANUFACTURERS.
3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
4. SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
5. ALL MOUNTING HARDWARE FOR THE PVCC RGC CONDUIT MUST BE PVC COATED.
6. THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING THREADED RODS TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE INSERT LOCATIONS IN THE FIELD AND COORDINATING ALL WORK WITH THE BRIDGE DECK CONSTRUCTION.
7. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



MOUNTING BRACKET FOR MULTIPLE CONDUITS

NOT TO SCALE



JUNCTION BOX MOUNTED TO STRUCTURE

NOT TO SCALE

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CHICAGO, IL 60601-5276
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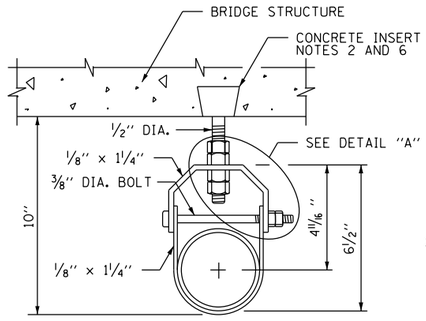
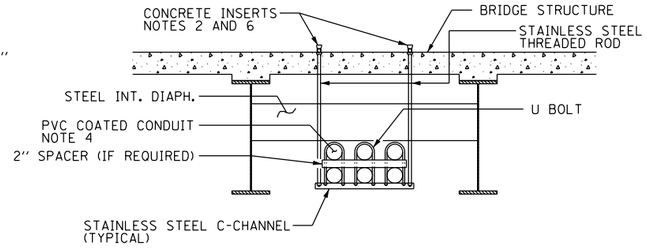
MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	213
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

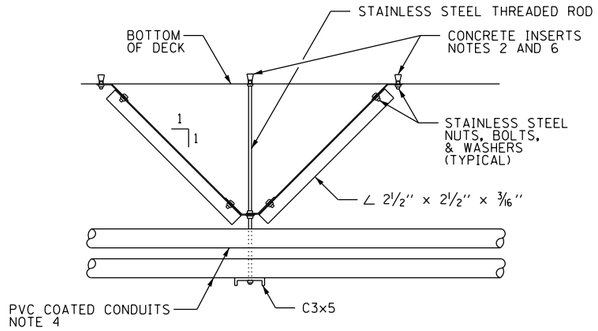


CONDUIT HANGER DETAIL



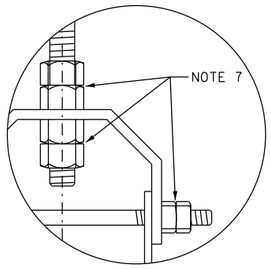
TYPICAL CONDUIT SUPPORT ATTACHED TO BRIDGE DECK WITH DIAPHRAGM DETAIL

NOTES 2 AND 3

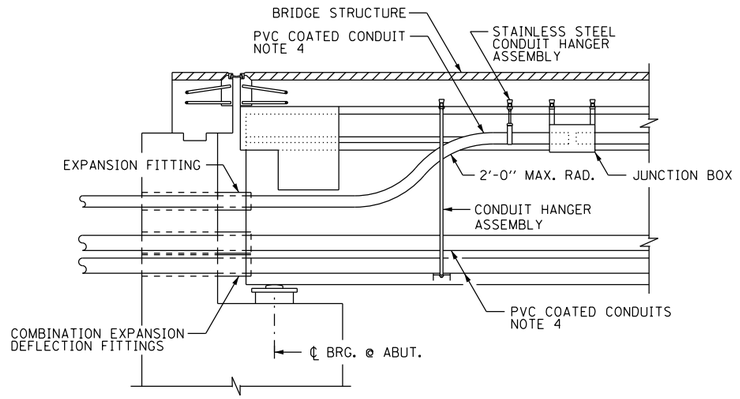


CENTERING DEVICE DETAIL - SIDE VIEW

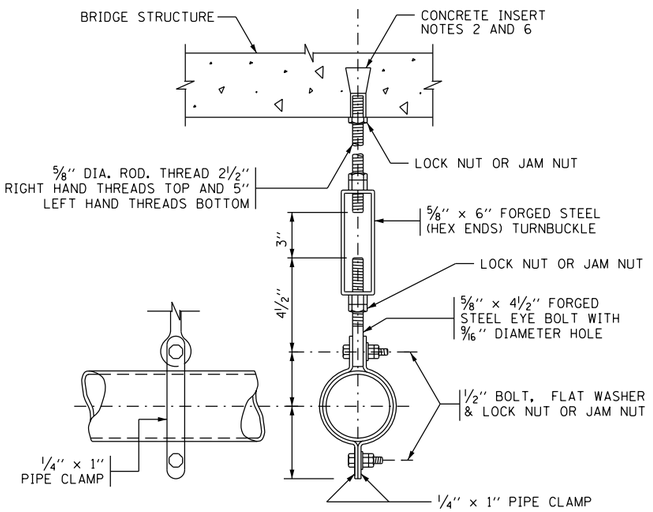
(LOCATED ONLY ON A HANGER ADJACENT TO PIER)



DETAIL "A"

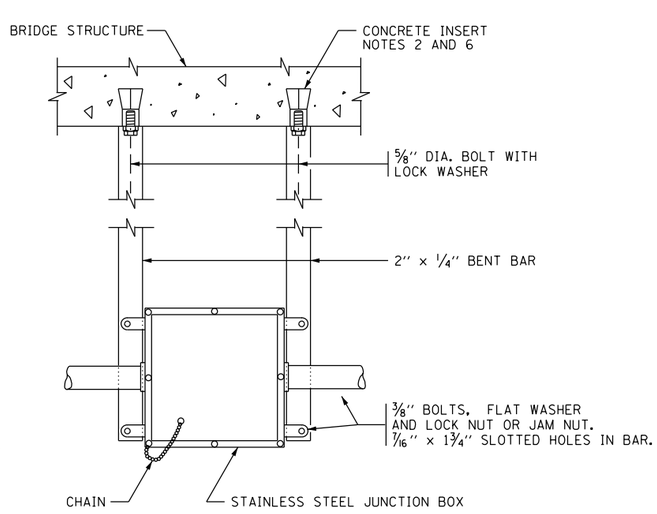


LONGITUDINAL SECTION



HANGER ASSEMBLY

EACH HANGER ASSEMBLY SHALL CONSIST OF CONCRETE INSERT, STAINLESS STEEL ROD, PIPE CLAMPS, NUTS, BOLTS, WASHERS, TURNBUCKLE AND EYE BOLT



JUNCTION BOX SUSPENDED FROM STRUCTURE DETAILS

NOTE 5

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
2. SEE DRAWING E-10 FOR ADDITIONAL CONDUIT MOUNTING DETAILS AND FOR DETAILS REGARDING THE INSTALLATION OF CONCRETE INSERTS.
3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
4. SEE THE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
5. THE JUNCTION BOX SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND ALL MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE" PAY ITEM.
6. SPACE INSERTS AT 10 FOOT (MAXIMUM) CENTERS.
7. PROVIDE STAINLESS STEEL DOUBLE NUTS, JAM NUTS OR LOCK NUTS FOR THIS INSTALLATION.
8. PROVIDE CONDUIT SLEEVES IN THE BRIDGE ABUTMENT AS REQUIRED TO ROUTE THE CONDUITS THROUGH THE STRUCTURE AS SHOWN. THE DIAMETER OF THE SLEEVES SHALL BE A MINIMUM OF 2 INCHES LARGER IN DIAMETER THAN THE DIAMETER OF THE CONDUIT. PROVIDE WATERPROOF SEALANT IN THE INTERSTITIAL SPACE BETWEEN THE SLEEVE AND THE CONDUIT.

AECOM
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CHICAGO, IL 60601-5276
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. | SHEET 11 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	214
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

SEQUENCING NOTES

- DUE TO WORK PERFORMED BY OTHERS, SEQUENCING MAY REQUIRE ALTERATION AS DEFINED BY THE AVAILABLE WORK AREAS AND SEQUENCING REQUIREMENTS SPECIAL PROVISION.

STAGE 1 (SHEETS ITS-05 TO ITS-07)

- GENERALLY COINCIDES WITH SUGGESTED CONSTRUCTION STAGE 1.
- JACKSON BOULEVARD SUPERSTRUCTURE CANNOT BE REMOVED UNTIL EXISTING FIBER OPTIC AND COPPER COMMUNICATION CABLES HAVE BEEN RELOCATED FROM CONDUIT ATTACHED TO THE BRIDGE.
- MAINTAIN EXISTING TEMPORARY WOOD POLES ALONG THE WEST SIDE OF I-90/94 BETWEEN JACKSON BOULEVARD AND THE HALSTED COMMUNICATION HUT. RELOCATE TEMPORARY WOOD POLES AS DEEMED NECESSARY FOR CONTRACTOR OPERATIONS.
- MAINTAIN OPERATIONS OF THE EXISTING CCTV CAMERA ATTACHED TO THE TEMPORARY WOOD POLE AT THE SOUTHWEST CORNER OF JACKSON BOULEVARD BRIDGE.
- MAINTAIN OPERATIONS OF THE EXISTING WIRELESS VEHICLE DETECTION SYSTEM MOUNTED TO THE TEMPORARY WOOD POLE ON THE WEST SIDE OF SOUTHBOUND I-90/94.
- INSTALL PROPOSED INFRASTRUCUTRE INCLUDING TEMPORARY WOOD POLES, HANDHOLES, AND CONDUIT FROM JACKSON BOULEVARD NORTH TO LAKE STREET.
- INSTALL NEW AERIAL CABLE ALONG THE TEMPORARY CABLE ROUTE BETWEEN LAKE ST. AND JACKON BLVD. AND MAKE THE NECESSARY CONNECTIONS AS DESCRIBED IN THE BELOW SEQUENCING:
- COPPER COMUNICATIONS CABLE CONNECTIONS:
  - SPLICE NEW AERIAL CABLES TO THE EXISTING AERIAL CABLES IN THE PROPOSED 42"x36"x12" JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE AT JACKSON BOULEVARD.
  - REMOVE THE EXISTING NO. 19 6/C CABLE AT LAKE STREET BETWEEN HANDHOLES ADJACENT TO CABINETS Y28 AND Y30.
  - SPLICE THE EXISTING NO. 19 6/C CABLE AT Y28 AND Y30 TO THE PROPOSED (2) NO. 19 25 PAIR CABLES. MAINTAIN EXISTING CABLE ASSIGNMENTS.
  - SPLICE THE PROPOSED (2) NO. 19 25 PAIR CABLES TO THE EXISTING NO. 19 50 PAIR CABLE IN THE EXISTING JUNCTION BOX ATTACHED TO THE BACKSIDE OF THE NORTHBOUND I-90/94 MEDIAN WALL. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS.
  - INSTALL NEW NO. 19 6 PAIR CABLE BETWEEN CABINETS Y26, Y22, Y18, Z12, AND Z8 AND THE ADJACENT WOOD POLE NEAR EACH CABINET. SPLICE THE NEW NO. 19 6 PAIR CABLES TO THE PROPOSED (2) NO. 19 25 PAIR CABLES IN THE PROPOSED JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE. PROPOSED NO. 19 6 PAIR CABLES SHALL BE CONNECTED TO THE CABINET TERMINAL BLOCKS TO MAINTAIN COMMUNICATIONS TO SURVEILANCE CABINETS BETWEEN LAKE STREET AND ADAMS STREET. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS FOR THE AFFECTED CABINETS.
- FIBER OPTIC CABLE CONNECTIONS:
  - AFTER THE APPROPRIATE SPLICES HAVE BEEN MADE AS DESCRIBED IN THE PREVIOUS "COPPER COMMUNICATIONS CABLE CONNECTION" SECTION, REMOVE THE EXISTING NO. 19 6/C CABLE ROUTED THROUGH CONDUIT ATTACHED TO RANDOLPH STREET BRIDGE.
  - PULL FIBER OPTIC CABLE THROUGH EXISTING CONDUIT ATTACHED TO RANDOLPH STREET BRIDGE TO THE HANDHOLE ADJACENT TO CABINET Y27 CONTAINING THE EXISTING MAINLINE FIBER OPTIC SPLICE.
  - SPLICE PROPOSED FIBER OPTIC CABLE IN THE PROPOSED 42"x36"x12" JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE AT JACKSON BOULEVARD AND AT THE EXISTING MAINLINE SPLICE POINT IN THE RANDOLPH STREET HANDHOLE ADJACENT TO CABINET Y27. THE CONTRACTOR SHALL COORDINATE ALL DISCONNECTION AND SPLICING WORK WITH IDOT/OAK PARK TSC. THIS WORK SHALL ONLY OCCUR OVERNIGHT AFTER THE PM PEAK HOUR AND BEFORE THE AM PEAK HOUR THE NEXT MORNING. ALL SPLICING AND TERMINATION WORK SHALL BE ACCOMPLISHED IN ONE NIGHT. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED FIBER OPTIC CABLE ASSIGNMENTS.

SEQUENCING NOTES (CONTINUED)

STAGE 2 (SHEETS ITS-08)

- GENERALLY COINCIDES WITH SUGGESTED CONSTRUCTION STAGES 2 AND 3.
- JACKSON BOULEVARD SUPERSTRUCTURE CANNOT BE REMOVED UNTIL EXISTING FIBER OPTIC AND COPPER COMMUNICATION CABLES HAVE BEEN RELOCATED FROM CONDUIT ATTACHED TO THE BRIDGE.
- STAGE 1 PROPOSED INFRASTRUCTURE AS SHOWN IN THE PLANS FOR ITS-05 AND ITS-06 SHALL BE MAINTAINED THROUGH STAGE 2.
- INSTALL NEW TEMPORARY WOOD POLES BEHIND RETAINING WALL 38 DRILLED SHAFTS AND CONCRETE CAP.
- DISCONNECT AND RELOCATE THE EXISTING CCTV CAMERA AND EQUIPMENT CABINET AND RELOCATE TO THE NEW TEMPORARY WOOD POLE.
- DISCONNECT AND RELOCATE THE EXISTING WIRELESS VEHICLE DETECTION SYSTEM AND EQUIPMENT CABINET AND RELOCATE TO THE NEW TEMPORARY WOOD POLE.
- REMOVE AERIAL CABLES FROM THE EXISTING TEMPORARY WOOD POLES SOUTH OF JACKSON AND RELOCATE CABLES TO THE NEW TEMPORARY WOOD POLE CABLE ROUTE. STORE EXCESS CABLE SLACK ON EACH WOOD POLE.
- REMOVE TEMPORARY WOOD POLES NO LONGER IN USE.

MAINTAIN THE TEMPORARY CABLE ROUTE THROUGH THE REMAINDER OF THE CONTRACT. TEMPORARY WOOD POLES AND CABLES ARE TO REMAIN AT THE CONCLUSION OF THE CONTRACT.

ABBREVIATIONS:

ATS - ATTACHED TO STRUCTURE
EIS - EMBEDDED IN STRUCTURE
ENC - ENCASED IN CONCRETE
UG - UNDERGROUND
PVCC GS - PVC COATED GALVANIZED STEEL
SS - STAINLESS STEEL
HDHH - HEAVY-DUTY HANDHOLE
JB - JUNCTION BOX
SMF - SINGLE MODE FIBER
WVDS - WIRELESS VEHICLE DETECTION SYSTEM

ITS-01

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
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DEPARTMENT OF TRANSPORTATION

ITS SEQUENCING AND ABBREVIATIONS

SCALE: N.T.S. | SHEET 1 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	215
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

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NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS INDICATED IN THE PROPOSED PLAN SHEET. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. REMOVE CABLE FROM CONDUIT BEFORE INSTALLING PROPOSED 96 SMF. SEE SEQUENCING NOTES ON ITS-01 TO REDUCE DOWNTIME TO SURVEILLANCE CABINET COMMUNICATIONS.
3. REMOVE CABLE FROM CONDUIT BEFORE INSTALLING PROPOSED NO. 19 50-PAIR. SEE SEQUENCING NOTES ON ITS-01 TO REDUCE DOWNTIME TO SURVEILLANCE CABINET COMMUNICATIONS.

EX. ITS CABINET Y27 TO BE MAINTAINED (NOTE 1)
EX. (4) CONDUIT, 4" DIA., GS
EX. (1) NO. 2 1/C & (1) NO. 6 1/C
EX. (1) NO. 6 3-1/C
EX. (2) NO. 18 4/C
EX. (1) NO. 19 6/C
TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, UG, 4" DIA., GS TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH
EX. (1) FO SPLICE - MAINLINE
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, UG, 2" DIA., GS
EX. (1) NO. 19 6/C (NOTE 3)
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, ENC, 4" DIA., GS
EX. (1) 96 SMF
EX. (1) NO. 19 50-PAIR
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, UG, 2" DIA., GS
EX. (2) NO. 2 1/C & (1) NO. 6 1/C
TO BE MAINTAINED (NOTE 1)
EX. (1) JB, ATS, 20"x16"x10" TO BE MAINTAINED (NOTE 1)
EX. (1) JB, ATS, 12"x10"x6" TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, ATS, 4" DIA., PVCC GS
EX. (1) 96 SMF
EX. (1) NO. 19 50-PAIR
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, ATS, 2" DIA., GS
EX. (2) NO. 2 1/C & (1) NO. 6 1/C
TO BE MAINTAINED (NOTE 1)
EX. (1) JB, ATS, 20"x16"x10" TO BE MAINTAINED (NOTE 1)
EX. (1) JB, ATS, 12"x10"x6" TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, ATS, 2" DIA., PVCC GS
EX. (1) NO. 6 2/C & NO. 8 1/C
EX. (1) NO. 19 6/C (NOTE 3)
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, EIS, 4" DIA., PVC
EX. (1) 96 SMF
EX. (1) NO. 19 50-PAIR
TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, UG, 2" DIA., GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 14 3/C & (1) NO. 8 1/C
EX. (3) NO. 18 4/C
EX. (1) NO. 19 6/C (NOTE 2)
TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, UG, 2" DIA., GS
EX. (2) NO. 2 1/C & (1) NO. 6 1/C
EX. (1) CONDUIT, ENC, 4" DIA., GS
EX. (1) 96 SMF
EX. (1) NO. 19 50-PAIR
TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, UG, 2" DIA., GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 19 6/C (NOTE 2)
TO BE MAINTAINED (NOTE 1)
EX. (2) JB, ATS, 12"x10"x6" TO BE MAINTAINED (NOTE 1)
EX. ITS CABINET Y23 TO BE MAINTAINED (NOTE 1)
LAKE STREET
RANDOLPH STREET
WASHINGTON BLVD
PR ℄ NB I-90/94
NB I-90/94
SB I-90/94
6175+00
6170+00
6165+00
MATCH LINE STA. 6163+50
EX. (2) CONDUIT, ATS, 2" DIA., PVCC GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 19 6/C (NOTE 2)
TO BE MAINTAINED (NOTE 1)
EX. (1) CONDUIT, UG, 4" DIA., GS
EX. (1) 96 SMF
EX. (1) NO. 19 50-PAIR
TO BE MAINTAINED (NOTE 1)
EX. (1) JB, EIS, TYPE J TO BE MAINTAINED (NOTE 1)
EX. (1) JB, ATS, 20"x16"x10" TO BE MAINTAINED (NOTE 1)
EX. ITS CABINET Y30 TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, ATS, 2" DIA., PVCC GS
EX. (2) NO. 2 1/C & (1) NO. 6 1/C
EX. (1) NO. 19 6/C (NOTE 3)
TO BE MAINTAINED (NOTE 1)
EX. ITS CABINET Y28 TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. (2) JB, ATS, 12"x10"x6" TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, ATS, 2" DIA., PVCC GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 19 6/C (NOTE 2)
TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. (2) CONDUIT, UG, 2" DIA., GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 19 6/C (NOTE 2)
TO BE MAINTAINED (NOTE 1)
EX. (1) HDHH TO BE MAINTAINED (NOTE 1)
EX. ITS CABINET Y26 TO BE MAINTAINED (NOTE 1)
EX. (4) CONDUIT, 4" DIA., GS
EX. (1) NO. 6 3-1/C
EX. (1) NO. 18 4/C
EX. (1) NO. 19 6/C
TO BE MAINTAINED (NOTE 1)
EX. ITS CABINET Y22 TO BE MAINTAINED (NOTE 1)
EX. ELECTRICAL SERVICE INSTALLATION (ITS CABINET Y22S) TO BE MAINTAINED (NOTE 1)
EX. LIGHTING CONTROLLER U TO BE MAINTAINED

N

0 50 100
SCALE: 1"=50'

ITS-02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

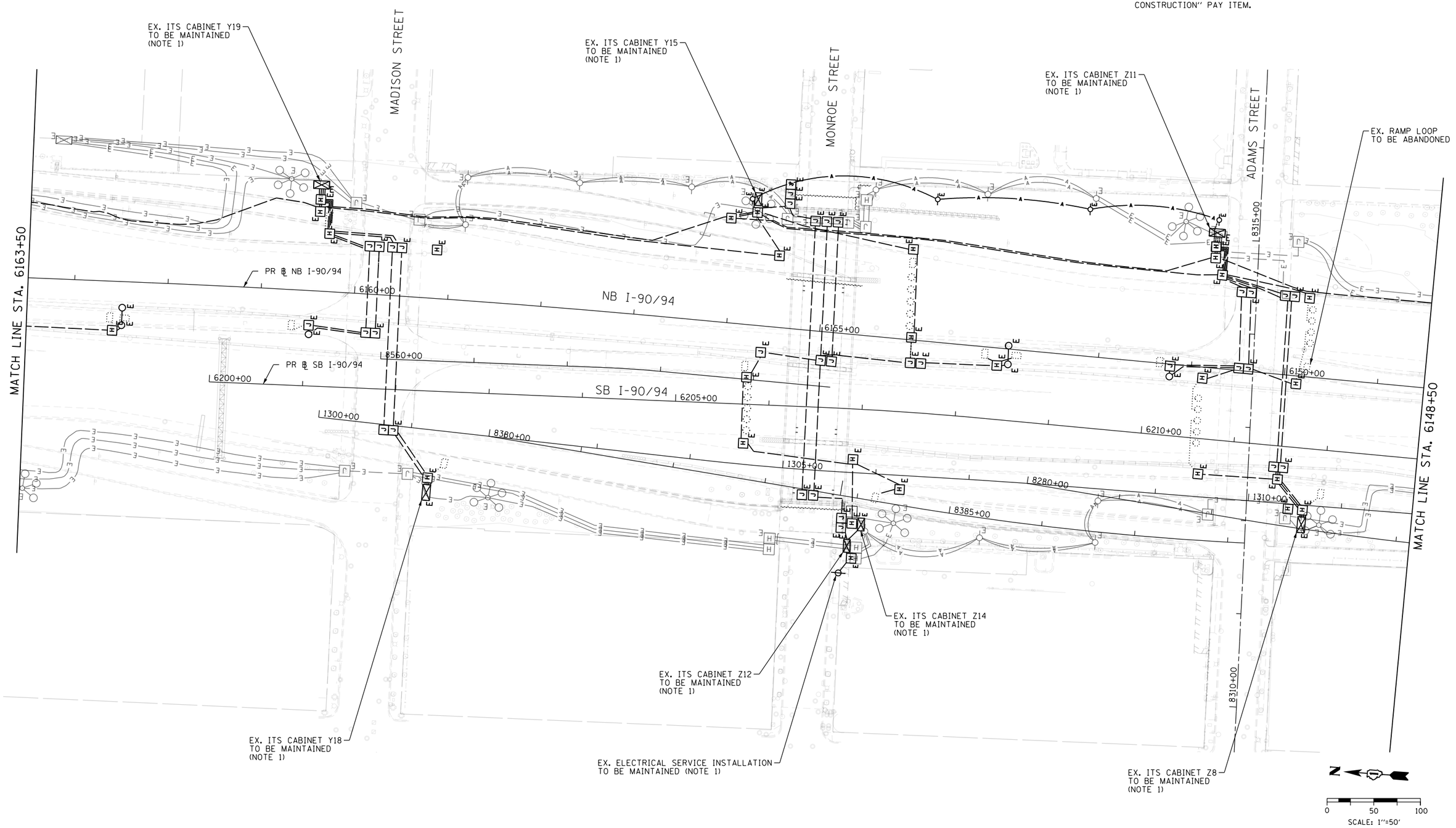
EXISTING ITS PLAN
I-90/94

SCALE: 1"=50' | SHEET 2 OF 11 SHEETS | STA. | TO STA. 6163+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	216
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS INDICATED IN THE PROPOSED PLAN SHEET. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.



ITS-03

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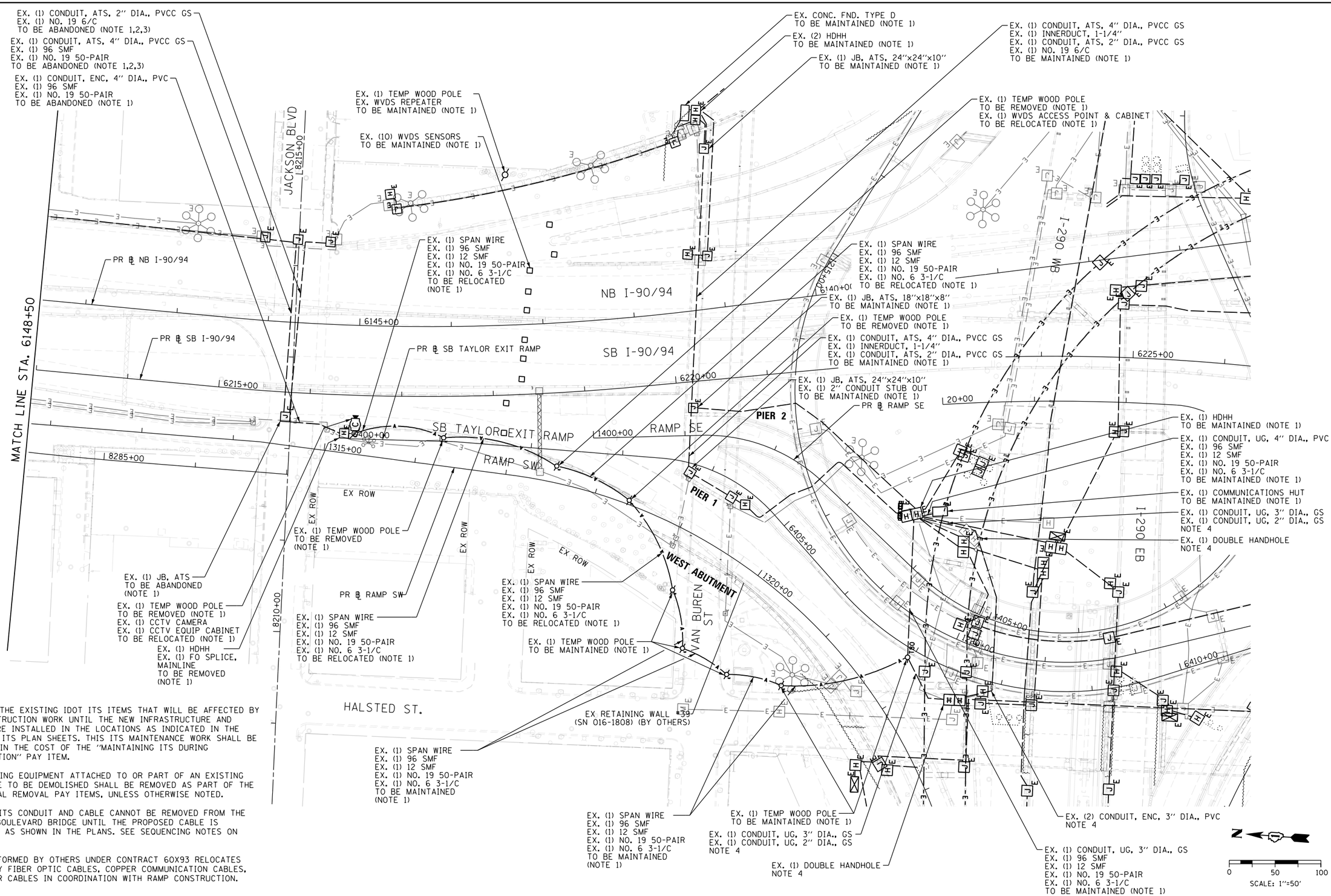
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ITS PLAN
I-90/94

SCALE: 1"=50' | SHEET 3 OF 11 SHEETS | STA. 6163+50 TO STA. 6148+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	217
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.

2. ALL EXISTING EQUIPMENT ATTACHED TO OR PART OF AN EXISTING STRUCTURE TO BE DEMOLISHED SHALL BE REMOVED AS PART OF THE STRUCTURAL REMOVAL PAY ITEMS, UNLESS OTHERWISE NOTED.

3. EXISTING ITS CONDUIT AND CABLE CANNOT BE REMOVED FROM THE JACKSON BOULEVARD BRIDGE UNTIL THE PROPOSED CABLE IS INSTALLED AS SHOWN IN THE PLANS. SEE SEQUENCING NOTES ON ITS-01.

4. WORK PERFORMED BY OTHERS UNDER CONTRACT 60X93 RELOCATES TEMPORARY FIBER OPTIC CABLES, COPPER COMMUNICATION CABLES, AND POWER CABLES IN COORDINATION WITH RAMP CONSTRUCTION.

ITS-04

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ITS PLAN
I-90/94

SCALE: 1"=50' | SHEET 4 OF 11 SHEETS | STA. 6148+50 | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	218
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

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NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS INDICATED IN THE PROPOSED PLAN SHEET. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.

2. THE LOCATIONS OF THE WOOD POLES AND HANDHOLES SHOWN ON THE PLANS ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATIONS OF THE POLES SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK PERFORMED BY OTHER DISCIPLINES.

3. SPLICE NEW FIBER OPTIC CABLE, 96 FIBERS TO EXISTING CABLE IN THE HANDHOLE. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED FIBER OPTIC ASSIGNMENTS.

4. CONNECT NEW NO. 19 6 PAIR COPPER COMMUNICATION CABLE TO THE EXISITNG CABINET TERMINAL BLOCK AND SPLICE TO THE NO. 19 25 PAIR CABLES IN THE JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE ELECTRICAL CABLE PAY ITEM.

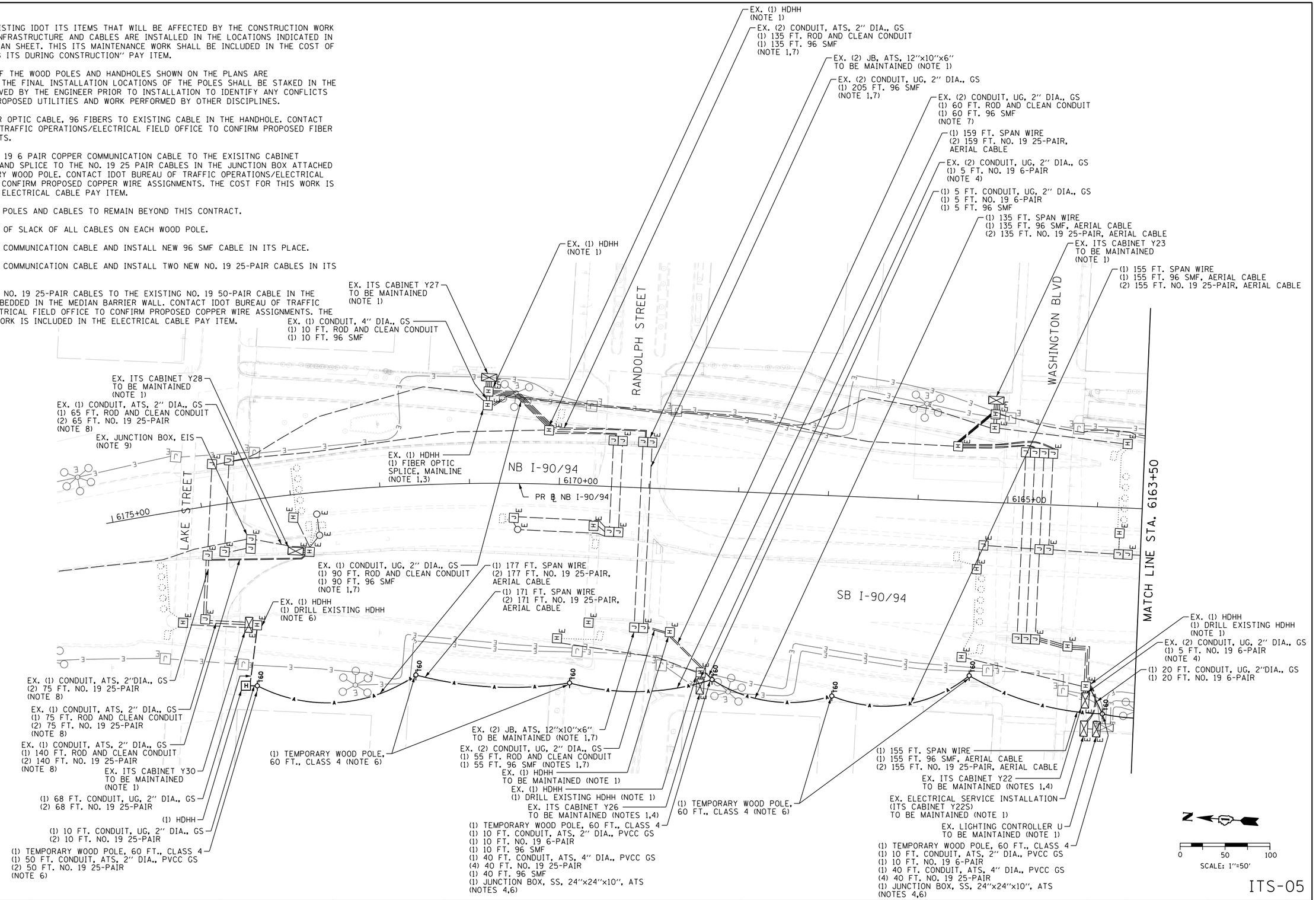
5. TEMPORARY WOOD POLES AND CABLES TO REMAIN BEYOND THIS CONTRACT.

6. INSTALL 50 FEET OF SLACK OF ALL CABLES ON EACH WOOD POLE.

7. REMOVE EXISTING COMMUNICATION CABLE AND INSTALL NEW 96 SMF CABLE IN ITS PLACE.

8. REMOVE EXISTING COMMUNICATION CABLE AND INSTALL TWO NEW NO. 19 25-PAIR CABLES IN ITS PLACE.

9. SPLICE PROPOSED NO. 19 25-PAIR CABLES TO THE EXISTING NO. 19 50-PAIR CABLE IN THE JUNCTION BOX EMBEDDED IN THE MEDIAN BARRIER WALL. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE ELECTRICAL CABLE PAY ITEM.



ITS-05

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

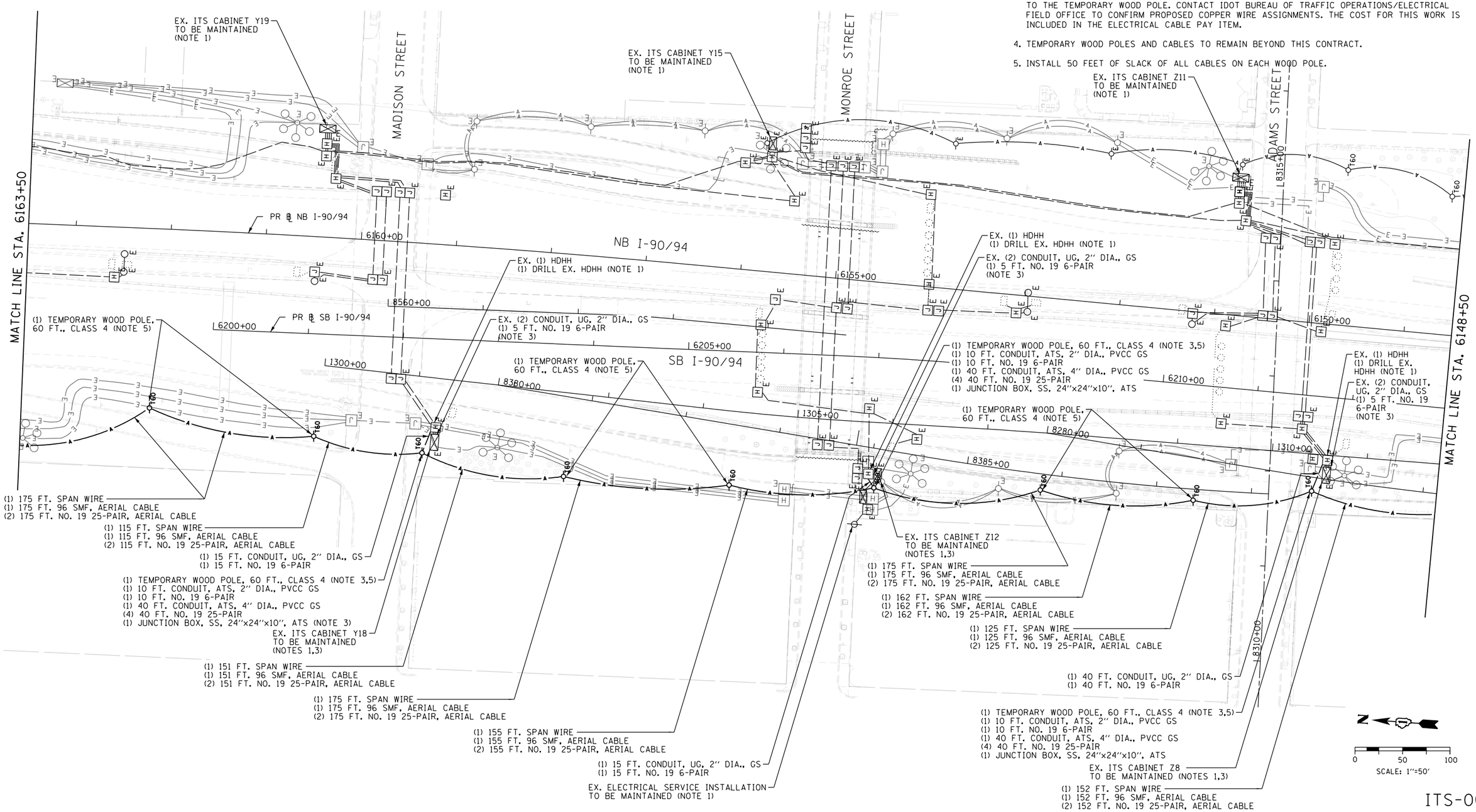
PROPOSED ITS PLAN – STAGE 1
I-90/94

SCALE: 1"=50' | SHEET 5 OF 11 SHEETS | STA. TO STA.6163+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	219
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS INDICATED IN THE PROPOSED PLAN SHEET. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. THE LOCATIONS OF THE WOOD POLES SHOWN ON THE PLANS ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATIONS OF THE POLES SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK PERFORMED BY OTHER DISCIPLINES.
3. CONNECT NEW NO. 19 6 PAIR COPPER COMMUNICATION CABLE TO THE EXISITNG CABINET TERMINAL BLOCK AND SPLICE TO THE NO. 19 25 PAIR CABLES IN THE JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE ELECTRICAL CABLE PAY ITEM.
4. TEMPORARY WOOD POLES AND CABLES TO REMAIN BEYOND THIS CONTRACT.
5. INSTALL 50 FEET OF SLACK OF ALL CABLES ON EACH WOOD POLE.



ITS-06

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN – STAGE 1
I-90/94

SCALE: 1"=50' | SHEET 6 OF 11 SHEETS | STA. 6163+50 TO STA. 6148+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	220
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS INDICATED IN THE PROPOSED PLAN SHEET. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.

2. THE LOCATIONS OF THE WOOD POLES SHOWN ON THE PLANS ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATIONS OF THE POLES SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK PERFORMED BY OTHER DISCIPLINES.

3. SPLICE NEW FIBER OPTIC CABLE, 96 FIBERS AND NEW 25-PAIR CABLES TO EXISTING CABLES IN THE JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED FIBER OPTIC ASSIGNMENTS.

4. TEMPORARY WOOD POLES AND CABLES TO REMAIN BEYOND THIS CONTRACT.

5. INSTALL 50 FEET OF SLACK OF ALL CABLES ON EACH WOOD POLE.

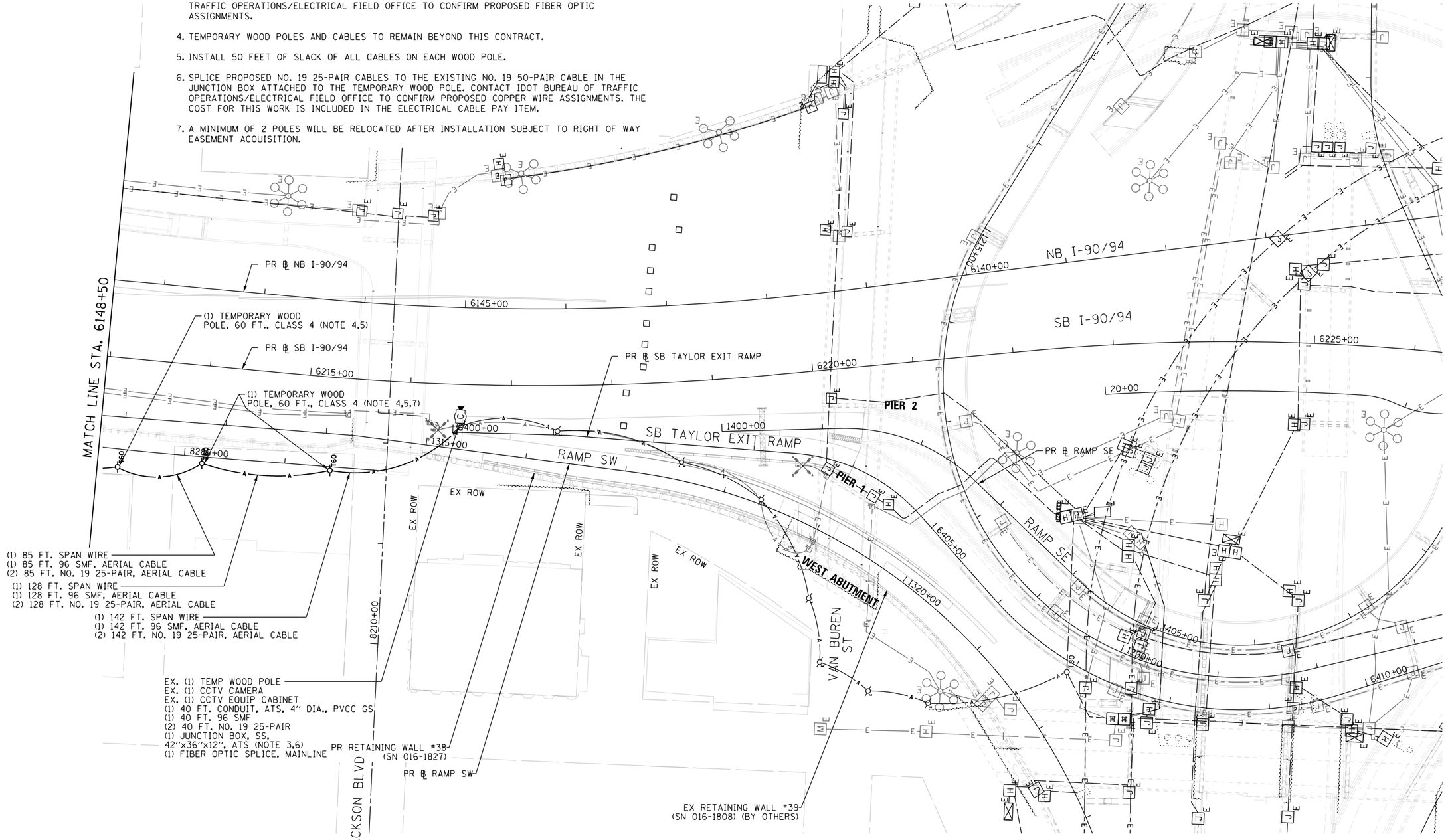
6. SPLICE PROPOSED NO. 19 25-PAIR CABLES TO THE EXISTING NO. 19 50-PAIR CABLE IN THE JUNCTION BOX ATTACHED TO THE TEMPORARY WOOD POLE. CONTACT IDOT BUREAU OF TRAFFIC OPERATIONS/ELECTRICAL FIELD OFFICE TO CONFIRM PROPOSED COPPER WIRE ASSIGNMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE ELECTRICAL CABLE PAY ITEM.

7. A MINIMUM OF 2 POLES WILL BE RELOCATED AFTER INSTALLATION SUBJECT TO RIGHT OF WAY EASEMENT ACQUISITION.

N

0 50 100

SCALE: 1"=50'



ITS-07

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN – STAGE 1
I-90/94

SCALE: 1"=50' | SHEET 7 OF 11 SHEETS | STA. 6148+50 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	221
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

(1) PREFORMED INDUCTION LOOP,
6'x12' CENTERED IN LANE
(1) 13 FT. CONDUIT, UG, 2" DIA., GS
(1) LOOP WIRE

(1) HDHH

(1) PREFORMED INDUCTION LOOP,
6'x12' CENTERED IN LANE
(1) 13 FT. CONDUIT, UG, 2" DIA., GS
(1) LOOP WIRE

(1) HDHH

(1) PREFORMED INDUCTION LOOP,
6'x12' CENTERED IN LANE
(1) 40 FT. CONDUIT, UG, 2" DIA., GS
(1) LOOP WIRE

EX. (1) HDHH
(3) 25 FT. NO. 18 4/C, TW, SH
NOTE 4

EX. (1) CONDUIT, ATS, 2" DIA., PVCC GS
(3) 35 FT. NO. 18 4/C, TW, SH

EX. (1) CONDUIT, ATS, 2" DIA., PVCC GS
(3) 295 FT. NO. 18 4/C, TW, SH

MATCH LINE STA. 6148+50

PR ℄ NB I-90/94

PR ℄ SB I-90/94

JACKSON BLVD

8215+00

6215+00

6220+00

6145+00

6140+00

NB I-90/94

SB I-90/94

6225+00

PR ℄ SB TAYLOR EXIT RAMP

EX. (1) CONDUIT, ATS, 2" DIA., PVCC GS
(3) 75 FT. NO. 18 4/C, TW, SH

(1) 35 FT. CONDUIT, UG, 2" DIA., GS
(2) 35 FT. NO. 18 4/C, TW, SH

(1) 25 FT. CONDUIT, ATS, 2" DIA., PVCC GS
(3) 25 FT. NO. 18 4/C, TW, SH
NOTE 1

PIER 2

PR ℄ RAMP SE

6400+00

1400+00

8285+00

1315+00

SB TAYLOR EXIT RAMP

RAMP SW

PIER 1

RAMP SE

6405+00

1320+00

1405+00

1410+00

6410+00

EX ROW

EX ROW

EX ROW

EX ROW

WEST ABUTMENT

VAN BUREN ST

(1) TEMPORARY WOOD POLE, 60 FT., CLASS 4 (NOTE 5)
(1) REMOVE AND REINSTALL EXISTING
CCTV CAMERA AND EQUIPMENT CABINET (NOTE 2)
(1) RELOCATE EXISTING JUNCTION BOX, ATS

REMOVE AND REINSTALL AERIAL CABLE
EX. (1) 97 FT. SPAN WIRE
EX. (1) 97 FT. 12 SMF
EX. (1) 97 FT. NO. 6 3-1/C
EX. (1) 97 FT. 96 SMF
EX. (1) 97 FT. NO. 19 50-PAIR

(1) TEMPORARY WOOD POLE, 60 FT., CLASS 4 (NOTE 5)

REMOVE AND REINSTALL AERIAL CABLE
EX. (1) 127 FT. SPAN WIRE
EX. (1) 127 FT. 12 SMF
EX. (1) 127 FT. NO. 6 3-1/C
EX. (1) 127 FT. 96 SMF
EX. (1) 127 FT. NO. 19 50-PAIR

PR RETAINING WALL #38 (SN 016-1827)

(1) TEMPORARY WOOD POLE, 60 FT., CLASS 4 (NOTE 5)
(1) REMOVE AND RELOCATE WVDS (NOTE 3)

REMOVE AND REINSTALL AERIAL CABLE
EX. (1) 88 FT. SPAN WIRE
EX. (1) 88 FT. 12 SMF
EX. (1) 88 FT. NO. 6 3-1/C
EX. (1) 88 FT. 96 SMF
EX. (1) 88 FT. NO. 19 50-PAIR

(1) TEMPORARY WOOD POLE, 60 FT., CLASS 4 (NOTE 5)

REMOVE AND REINSTALL AERIAL CABLE
EX. (1) 109 FT. SPAN WIRE
EX. (1) 109 FT. 12 SMF
EX. (1) 109 FT. NO. 6 3-1/C
EX. (1) 109 FT. 96 SMF
EX. (1) 109 FT. NO. 19 50-PAIR

EX RETAINING WALL #39
(SN 016-1808) (BY OTHERS)

PR ℄ RAMP SW

NOTES:

1. RELOCATE TEMPORARY WOOD POLES, SPAN WIRE, 12 SMF, 96 SMF, NO. 19 50-PAIR AND NO. 6 3-1/C CABLES TO NEW ROUTE AS SHOWN. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SEQUENCE AND STAGING AS OUTLINED ON SHEET ITS-01.
2. RELOCATE CCTV DOME CAMERA, CCTV CABINET AND INTERNAL EQUIPMENT TO RELOCATED TEMPORARY WOOD POLE POSITION AS SHOWN.
3. RELOCATE WIRELESS VEHICLE DETECTION SYSTEM ACCESS POINT AND ASSOCIATED CABINET AND INTERNAL EQUIPMENT TO NEAREST RELOCATED TEMPORARY WOOD POLE.
4. COIL 25 FT. OF NO. 18 4/C DETECTOR CABLE SLACK IN THE HEAVY-DUTY HANDHOLE ADJACENT TO THE CABINET FOUNDATION.
5. TEMPORARY WOOD POLES TO BE SET BASED ON INTERIM GRADING ELEVATIONS. SEE STRUCTURAL PLANS FOR ADJACENT EXCAVATION LIMITS.
6. THE LOCATIONS OF THE ITS ELEMENTS SHOWN ON THE PLAN ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATIONS OF THE ITS EQUIPMENT SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING ANY WORK TO ENSURE THAT THERE ARE NO CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK PERFORMED BY OTHER DISCIPLINES.
7. TEMPORARY LIGHTING STAGE 2 OCCURS DURING THE PROPOSED ITS STAGE 2. SEE SHEET E-03 FOR TEMPORARY STAGE 2 LIGHTING PLANS.

N

0 50 100
SCALE: 1"=50'

ITS-08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

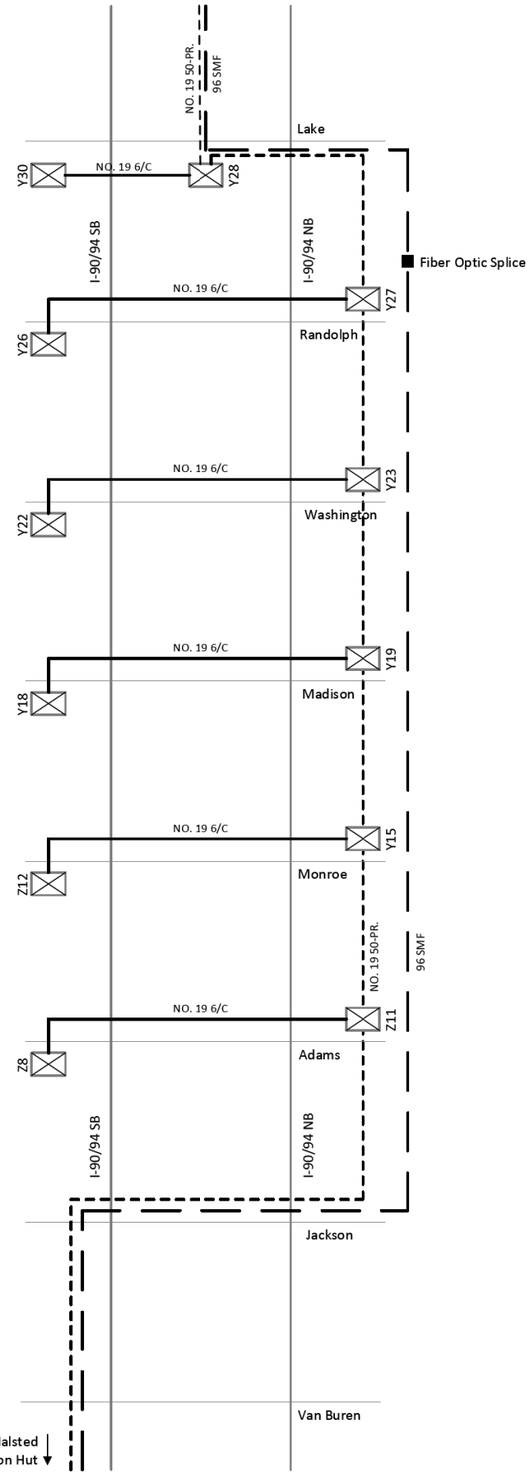
PROPOSED ITS PLAN – STAGE 2
I-90/94

SCALE: 1"=50' | SHEET 8 OF 11 SHEETS | STA. 6148+50 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	222
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

EXISTING COMMUNICATIONS CABLE ROUTING

THIS DRAWING IS DIAGRAMMATICAL AND FOR INFORMATIONAL PURPOSES ONLY.



PROPOSED COMMUNICATIONS CABLE ROUTING

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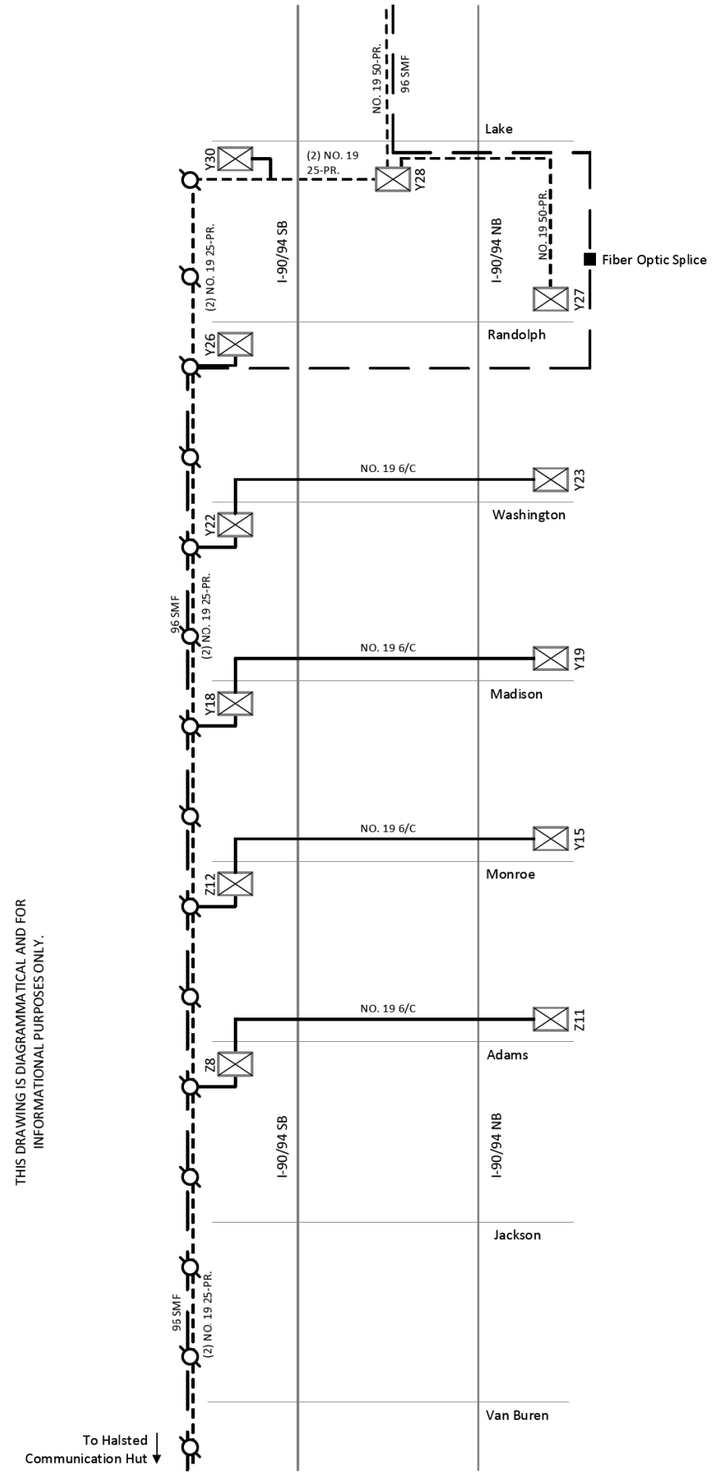

LEGEND

- NO. 19 6 PAIR / NO. 19 6/C
- NO. 19 25 PAIR / NO. 19 50 PAIR
- 96 SMF
- SURVEILLANCE CABINET
- TEMPORARY WOOD POLE

N

ITS-09

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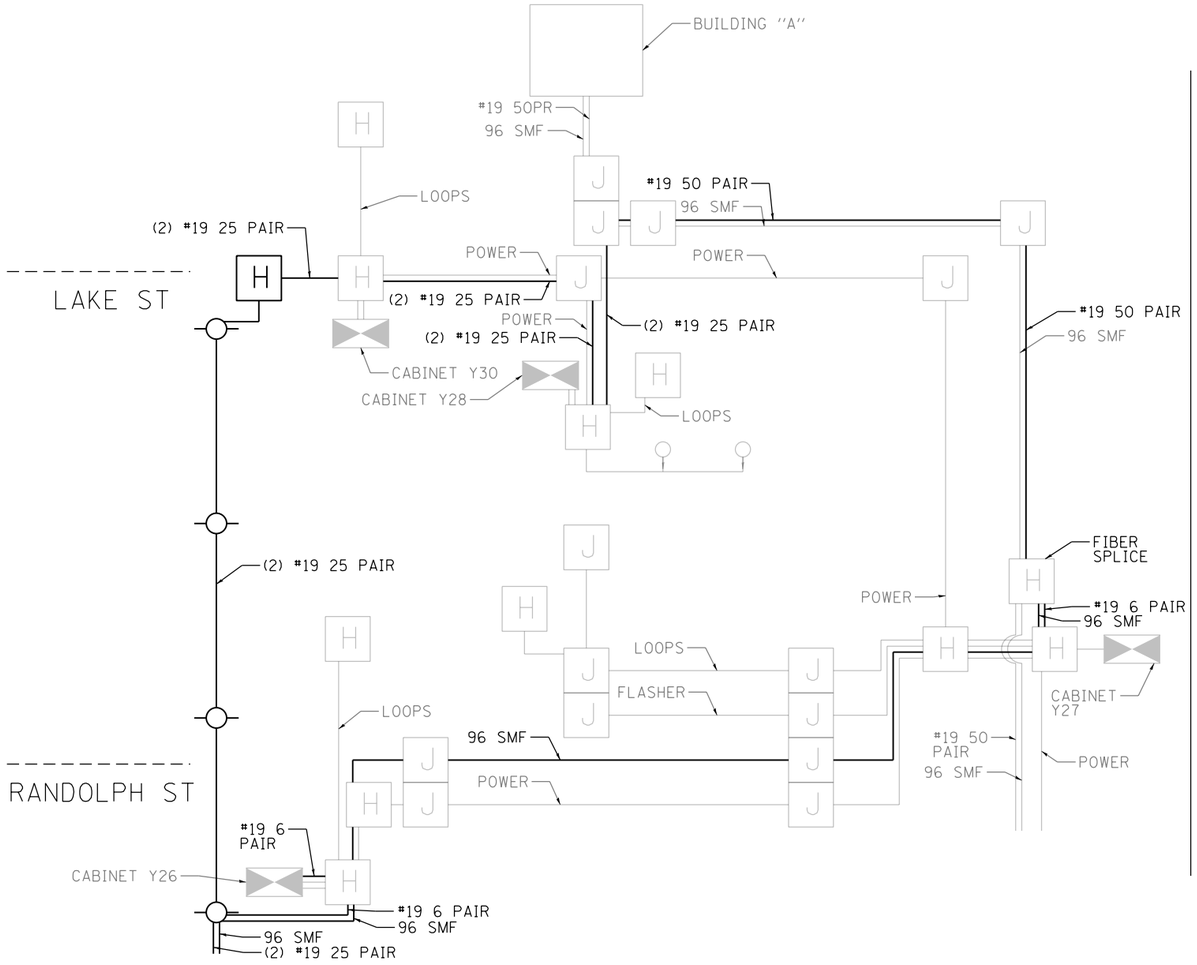
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -	

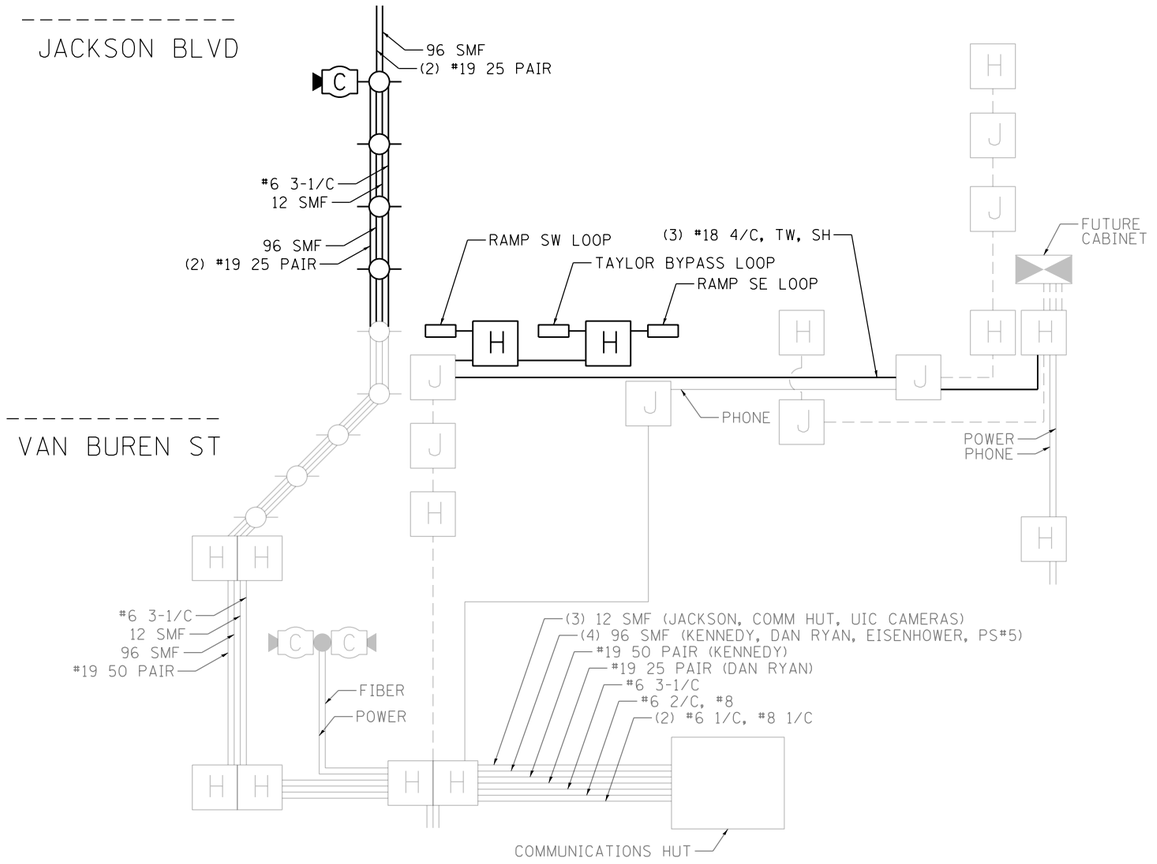
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

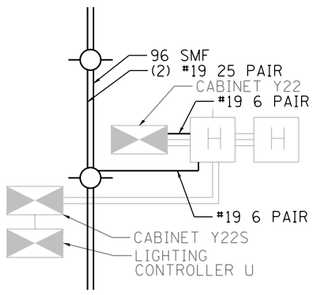
ITS COMMUNICATIONS SCHEMATIC

SCALE: N.T.S. | SHEET 9 OF 11 SHEETS | STA. | TO STA.

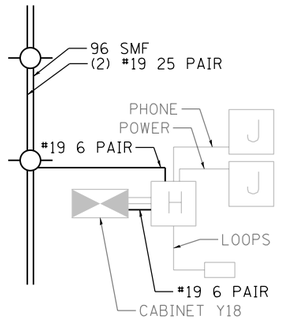
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	223
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		



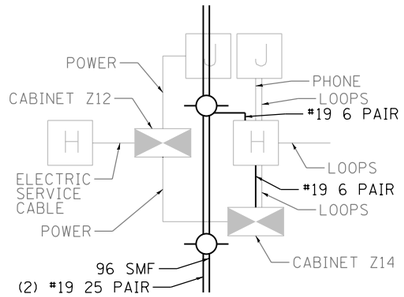




WASHINGTON BLVD



MADISON ST



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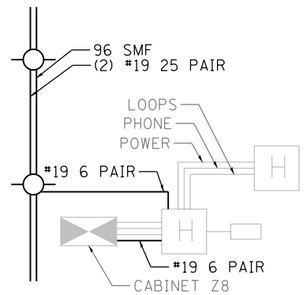

ADAMS ST

SYMBOLS LEGEND

H	HEAVY DUTY HANDHOLE		SIGNAL PEDESTAL
J	JUNCTION BOX	- - -	EMPTY CONDUIT FOR FUTURE USE
C	CCTV CAMERA		TEMPORARY WOOD POLE
	CONTROLLER CABINET		DETECTOR

N

NOTES:

1. CONTRACT RELATED LINEWORK APPEARS IN BOLD. ALL OTHER ITS INFRASTRUCTURE REPRESENTED ON THIS SHEET IS FOR INFORMATION ONLY.
2. NOT TO SCALE

ITS-10

FILE PATH = pw:\\AECOM-NA-AWS1.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000_CAD\006_Roadway\Sheets\62J31_Contract\D162J31-sht-ITS-10

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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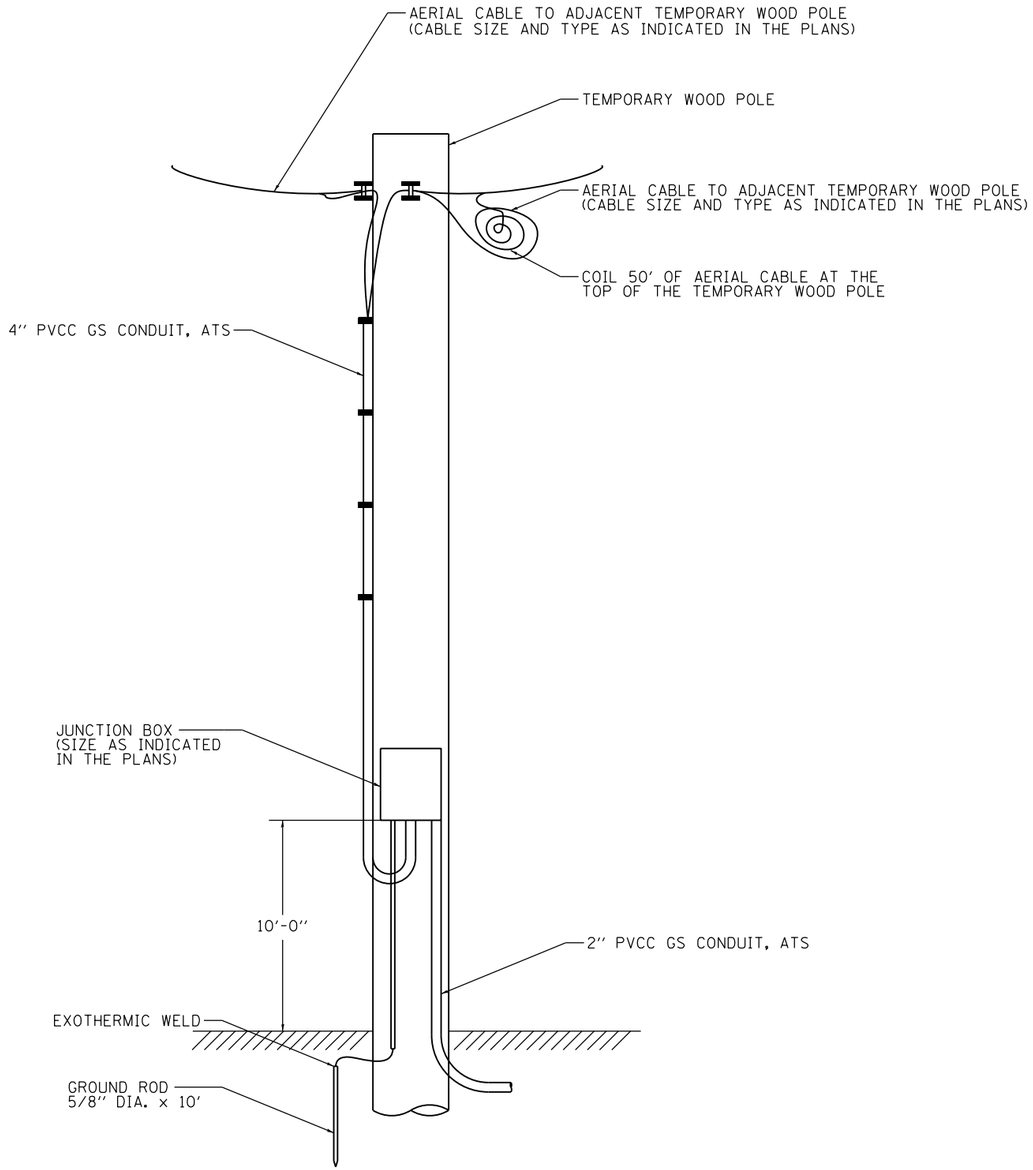
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

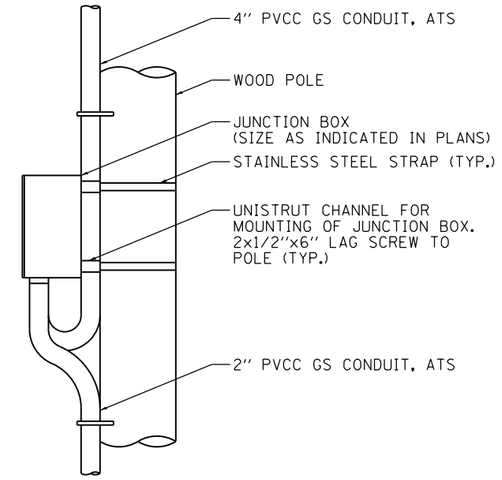
ITS WIRE DIAGRAM

SCALE: N.T.S. | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	224
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		



JUNCTION BOX ATTACHED TO WOOD POLE INSTALLATION DETAIL
NOT TO SCALE



JUNCTION BOX MOUNTING DETAIL
NOT TO SCALE

ITS-11

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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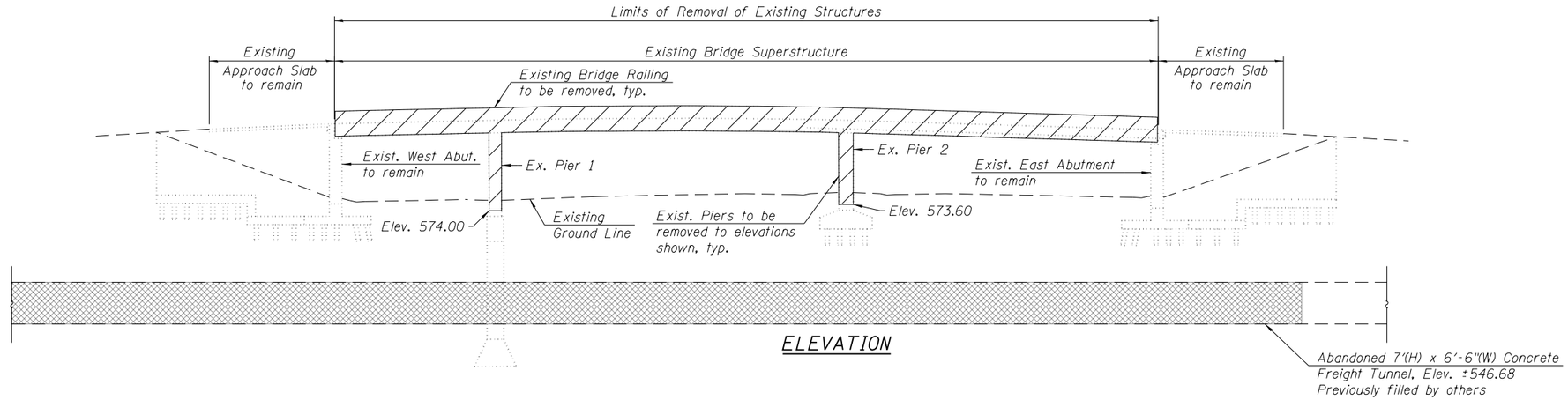
PLOT SCALE = 2.0000 ' / in.	CHECKED - PTJ	REVISED -
PLOT DATE = 8/14/2019	DATE - 8/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

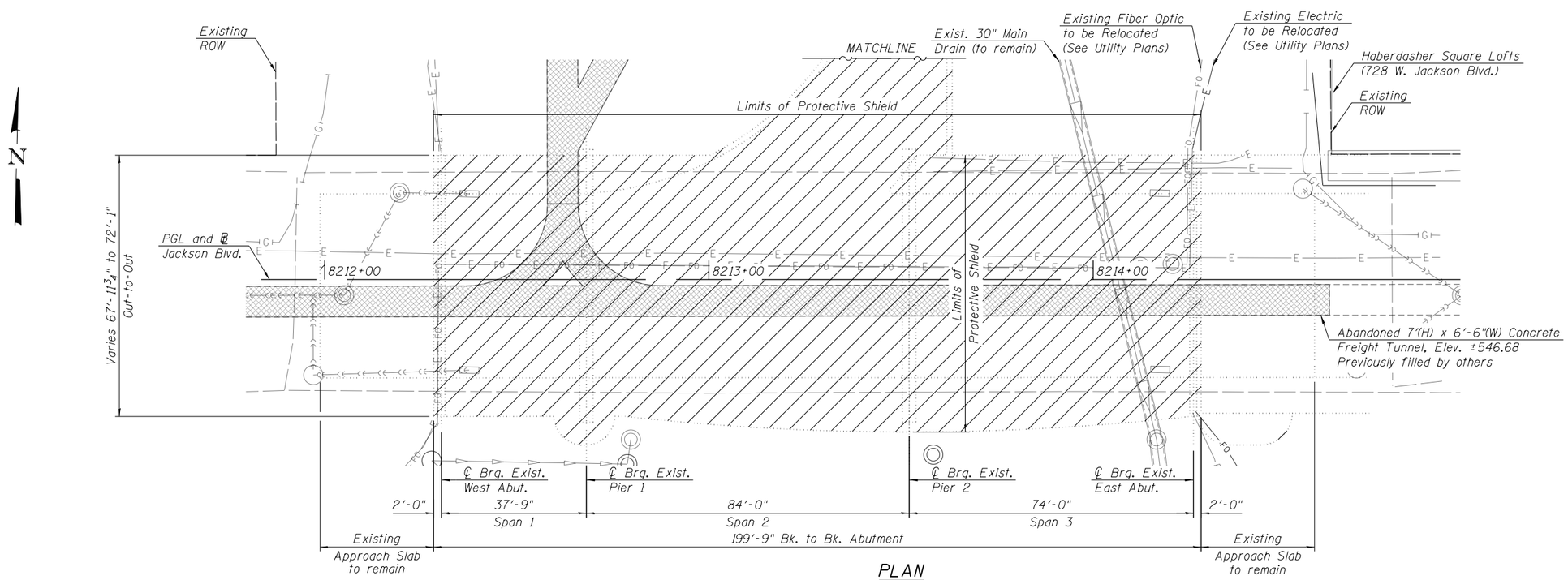
ITS DETAIL

SCALE: N.T.S. | SHEET 11 OF 11 SHEETS | STA. | TO STA.

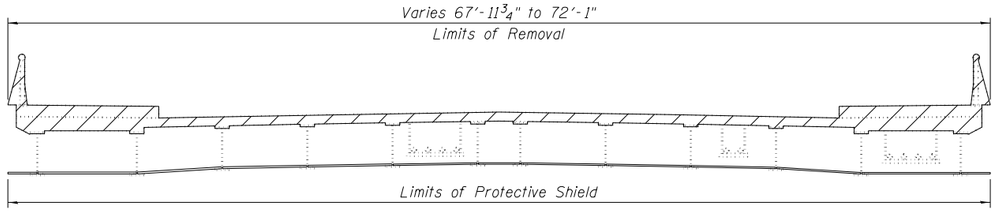
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2019-054-I	COOK	400	225
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		



ELEVATION



PLAN



CROSS SECTION OF EXISTING SUPERSTRUCTURE

(Looking East)

Notes:

Existing utilities between girders will be relocated to provide uninterrupted service during construction (by others).

The Contractor is responsible to protect the roadway below from falling objects and debris during removal of the existing structure.

Removal of existing structures shall be in accordance with Section 501 of the Standard Specifications. This item shall include complete removal of the concrete bridge rails, concrete deck and superstructure. This item also includes partial removal of the piers down to a minimum elevation as noted in plans.

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

Work this sheet with Sheet 2 of 2 .

LEGEND:

Removal of Existing Structures

Bulkhead and area filled with CLSM. Previously filled by others

811158 AM
0160588-62J31-S001-Removal_Details1.dgn

TranSystems

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	CHECKED - WJC	REVISED
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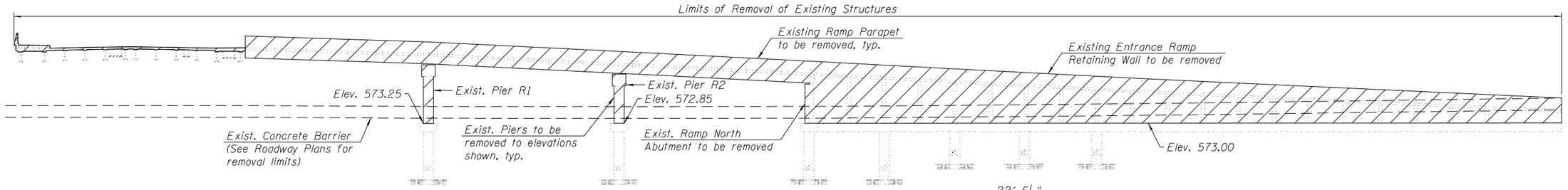
PLOT DATE = 9/12/2019	CHECKED - WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JACKSON BOULEVARD REMOVAL DETAILS 1
STRUCTURE NO. 016–0588
SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1422	2019-054-I	COOK	400	226
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



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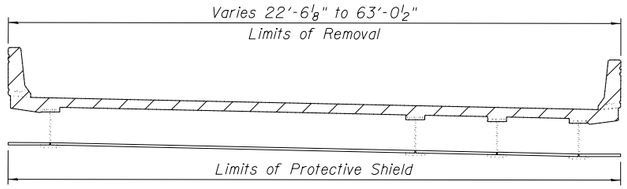
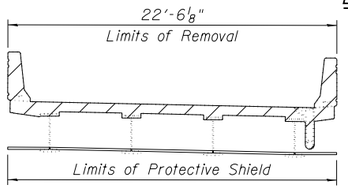
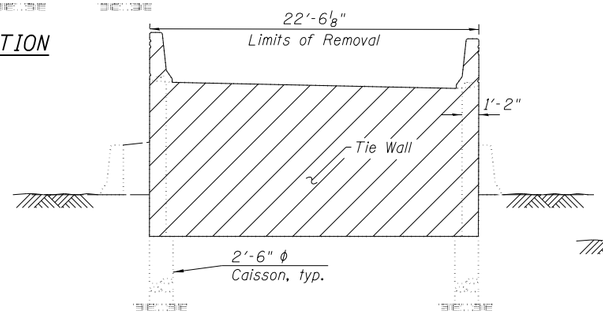


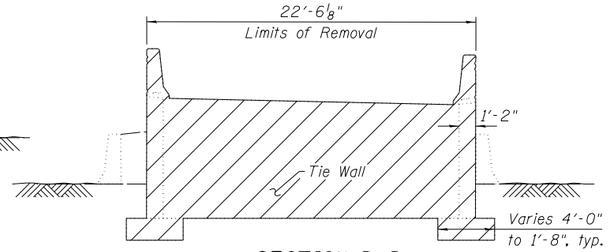
SECTION A-A
(Looking North)



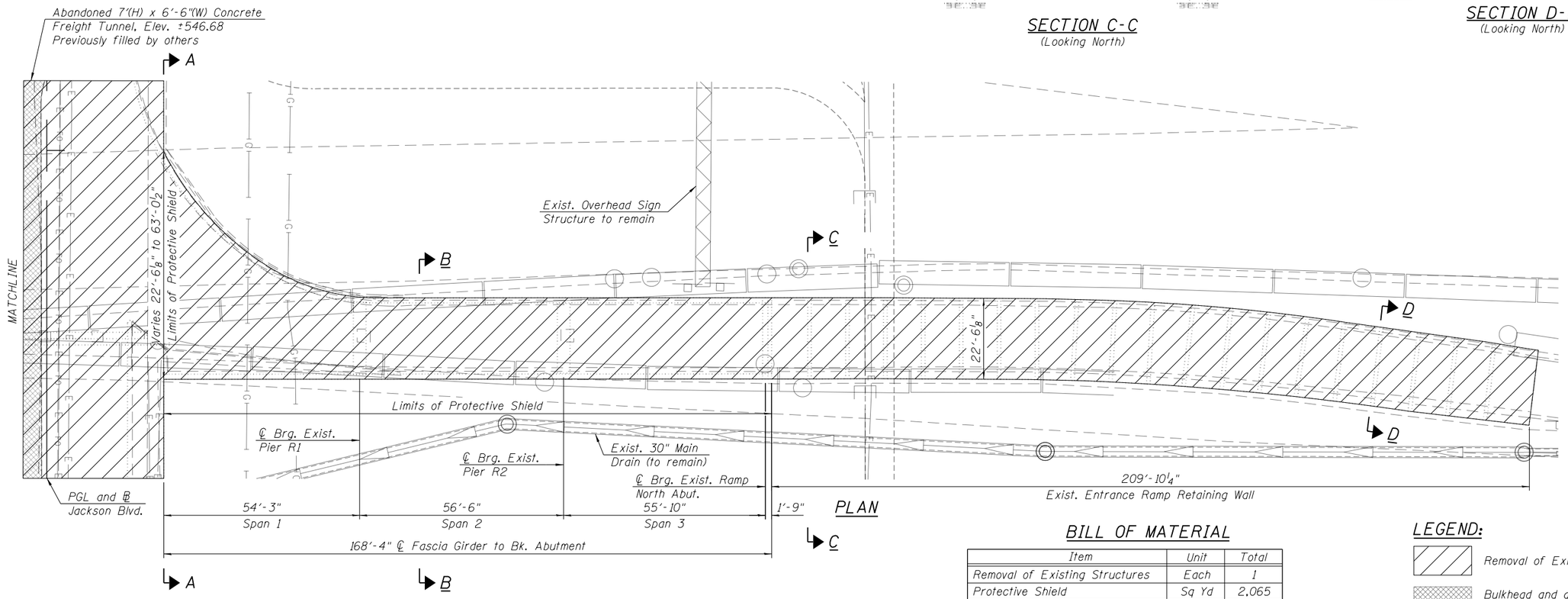
SECTION B-B
(Looking North)



SECTION C-C
(Looking North)



SECTION D-D
(Looking North)



PLAN

BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures	Each	1
Protective Shield	Sq Yd	2,065

LEGEND:

Removal of Existing Structures

Bulkhead and area filled with CSLM. Previously filled by others

Notes:
See Sheet 1 of 2 for notes.

N

USER NAME = wjcollett	DESIGNED - EH	REVISED	
	CHECKED - WJC	REVISED	
PLOT SCALE = 32:0 ':" / in.	DRAWN - EH	REVISED	
PLOT DATE = 8/14/2019	CHECKED - WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JACKSON BOULEVARD REMOVAL DETAILS 2
STRUCTURE NO. 016-0588
SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1422	2019-054-I	COOK	400	227
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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FOR INFORMATION ONLY

90/94	0101-2-1B-R-1	COOK	226	22
STA. 1+350.230		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

S-1 of 49

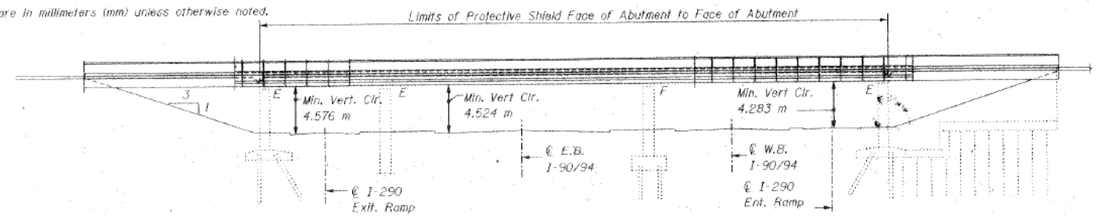
Structure Description: S.N. 016-0588, Built in 1958 as FA Route 173, Sec. 0101.2-2B.
The Jackson Boulevard Bridge over I-90/94 is a three-span (11.506 m, 25.603 m, 22.555 m) continuous, multi-stringer steel bridge that carries four east bound traffic lanes and two sidewalks. Bridge width is 14.630 m with two 3.048 m sidewalks. Entrance Ramp "A" is a three-span, (16.764 m, 16.764 m, 16.764 m) simply supported, multi-stringer composite steel bridge. Ramp width is 5.48 m. Ramp "A" carries one lane of traffic from the north side of the Jackson Boulevard bridge onto north bound I-90/94 Kennedy Expressway.

Bench Mark: "+" Cut in South Sidewalk of Jackson Boulevard at N.W. Corner of #763 W. Jackson Boulevard (Sta. 1+275). El. 180.959.

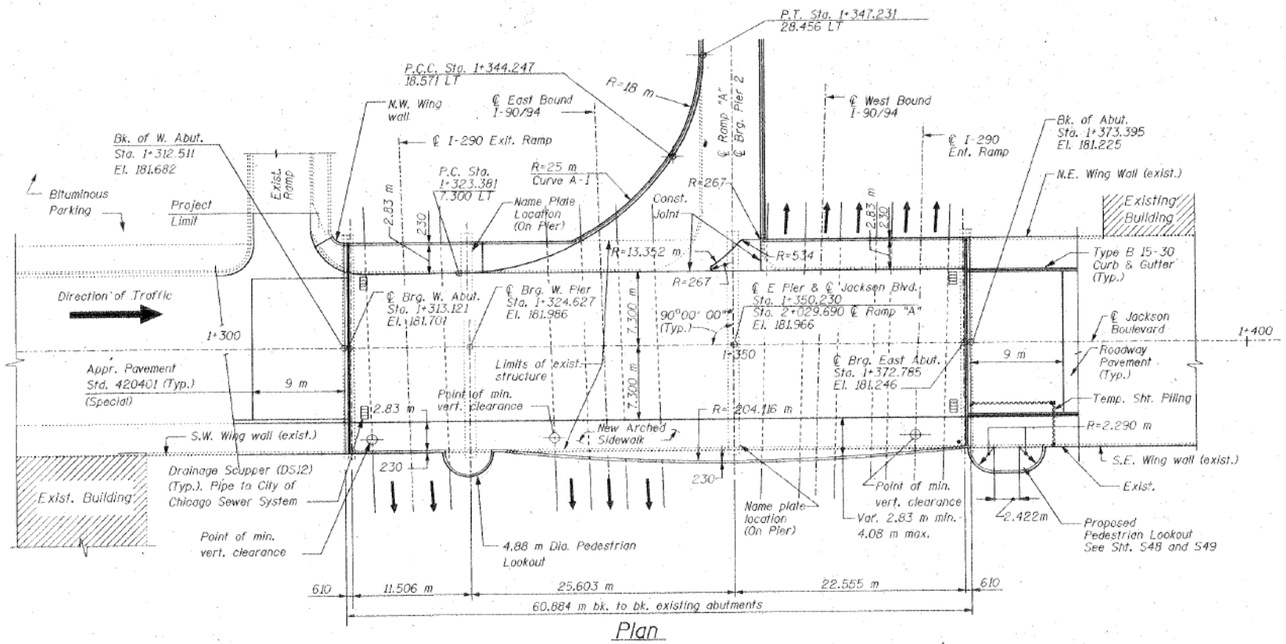
Staging: Structure to be closed during construction.

Salvage: None.

Note: All dimensions are in millimeters (mm) unless otherwise noted.



Elevation



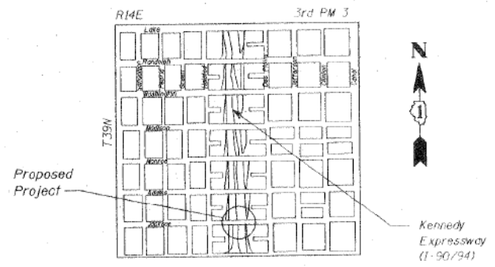
Plan

STATION 01+350.230
REBUILT 2000 BY
STATE OF ILLINOIS
F.A.U. RTE. 1422
SEC 0101-2-1B-R-1
LOADING MS 18
STR. NO. 016-0588

NAME PLATE
Std. 515001

Note: Clean existing name plates cost included with "Name Plates" New name plate shall be attached adjacent to the existing name plate.

* Angle Shown is taken from the plans of the existing structure. The contractor must verify the angle prior to fabrication of any material.



Location Plan

Design Specifications

1995 Seismic Retrofitting Manual for Highway Bridges (FHWA-RD-94-052) 1996 A.A.S.H.T.O. and 1997 & 1998 Interims.

Loading MS18

Allow 1.2 k/m² for future wearing surface

Design Stresses

New Construction

f'_c = 24 MPa
fy = 400 MPa (Reinf.)
fy = 250 MPa (M270 M Grade 250)
fy = 345 MPa (M270 M Grade 345)

Existing Construction

fc = 20 MPa
fs = 275 MPa (Reinf.)
fs = 230 MPa (Structural Steel)

Seismic Data

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 2.0

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS	
NAME	DATE

3/01

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.H.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

6:37:11 PM
D1623J1 SHT-AS-BUILT-01

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	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-01 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	228
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	23
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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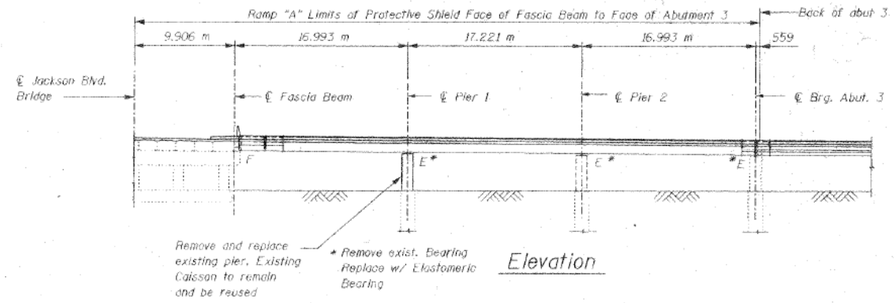

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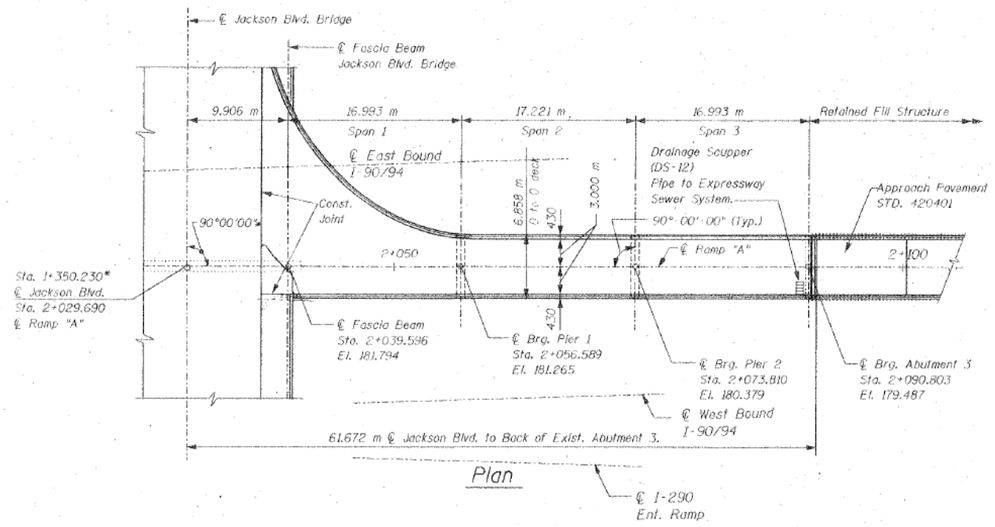
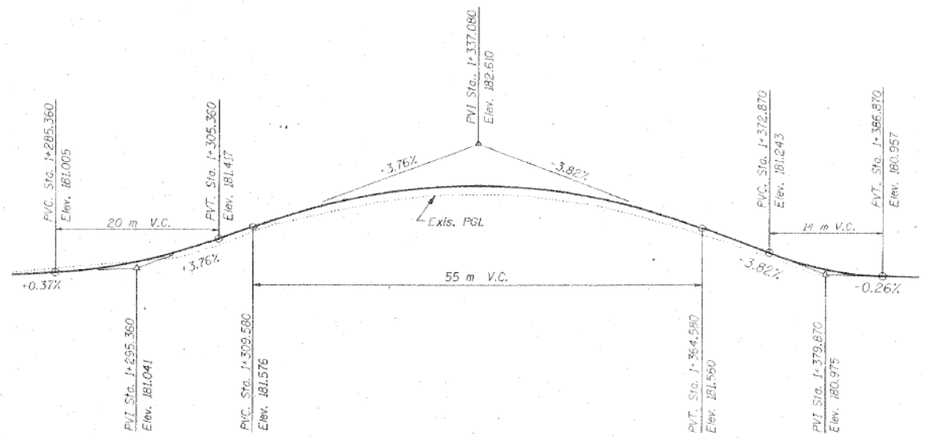
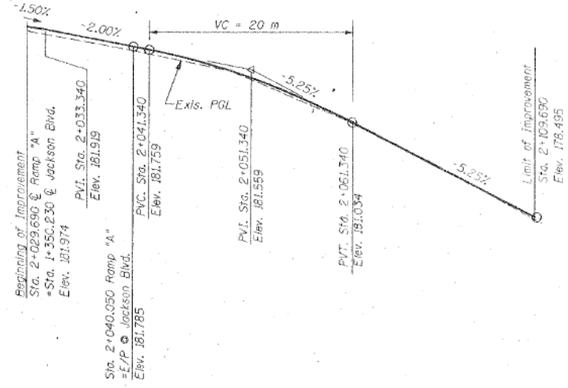


Plan

* Stationing and angle for ramp location is based on the plans of the existing structure. The contractor must verify the location prior to fabrication of any material.



Profile Grade Jackson Boulevard Bridge



Profile Grade Ramp "A"
(Along ℄ of Ramp "A")

Note: All dimensions are in millimeters (mm) unless otherwise noted.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN - RAMP "A"
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6:37:38 PM
016231 SHT-AS-BUILT-02

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	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-02 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	229
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	25
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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2/1/02

REINFORCEMENT BARS

Reinforcement bars shall conform to the requirements of AASHTO M-31M, M-42M or M-53M Grade 400.

CONCRETE CHAMFERS

All exposed concrete corners shall have 20 mm chamfers unless otherwise shown in the plans.

CONCRETE COVER

All reinforcement bars shall have a clear cover of 40 mm unless otherwise shown in the plans.

STRUCTURAL STEEL

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, connection angles and plates as specified in the plans, cover plates, sidewalk connections and all splice plate material except fill plates.

FIELD WELDING

Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

BOLTED CONNECTIONS

Fasteners for structural steel shall be high strength bolts M22 with 24 mm ø holes unless otherwise noted.

PAINTING NEW 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 of the final finish coat for all steel surfaces shall be gray, Munsell No. 5B-7/1. See special provision "Cleaning and Painting New Metal Structure".

PAINTING EXISTING STEEL OF HIGHWAY GRADE SEPARATION STRUCTURES

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing structural steel within 1.5 meters of either side of expansion joints and all surfaces of the two beams adjacent to the existing open longitudinal joint shall be cleaned by method 1. The existing structural steel in the area of the proposed concrete counter-weights shall be cleaned prior to pouring of the bridge deck. All remaining existing structural steel shall be cleaned by method 2. The aluminum epoxy mastic/acrylic paint system shall be used for painting of the existing structural steel. The color of the final finish coat for all steel surfaces shall be gray, Munsell No. 5B 7/1.

The existing structural steel coating contains lead. The contractor should take appropiate precautions to deal with lead in this project.

BEARING PLATES

The structural steel bearing plates of the Steel bearing assembly shall conform to the requirements of AASHTO M 270M Grade 345.

BEARING SEAT SURFACES

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (For Type I Elastomeric Bearings, two 3 mm adjusting shims shall be provided for each bearing and placed as detailed).

ANCHOR BOLTS

Anchor bolts shall be set before bolting diaphragms (bolting cross frames) over supports.

PLAN DIMENSIONS

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.

STRUCTURAL STEEL

Calculated mass of structural steel M270M GR 270 = 20112 kg
Calculated mass of structural steel M270M GR 345 = 89480 kg.

SEAT SEALER

Bridge Seat Sealer shall be applied to the seat area of Jackson Boulevard Bridge Abutments & Ramp "A" Abutment.

DECK POUR

When the deck pour is stopped for the day at one or more of the Transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:

1. At least 72 hours shall have elapsed from the end of the previous pour.
2. The concrete strength shall have attained a minimum modulus of rupture of 4.5 MPa or a minimum compressive strength of 24 MPa.

DIMENSIONS

All dimensions are in millimeters (mm) except as noted.

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUB-STRUCTURE	SUPER STRUCTURE	TOTAL QUANTITIES
Protective Shield	m^2		1,276	1,276
Removal of Existing Superstructure	Each		1	1
Removal of Existing Concrete Deck	Each		1	1
Structural Steel Removal	Kg		39820	39820
Jack and Remove Existing Bearings	Each		30	30
Temporary Sheet Pile	m^2	117		117
Concrete Removal	m^3	69		69
Blasting Residue Containment and Disposal	L Sum		0.5	0.5
Power Tool Cleaning Residue Containment and Disposal	L Sum		0.5	0.5
Cleaning & Painting Steel Bridge	L Sum		0.5	0.5
Stud Shear Connectors	Each		9,100	9,100
Furnishing & Erecting Structural Steel	L Sum		0.5	0.5
Elastomeric Bearing Assembly, Type I	Each		32	32
Elastomeric Bearing Assembly, Type II	Each		16	16
Preformed Joint Seal 102 mm	m		23	23
Preformed Joint Seal 64 mm	m		23	23
Neoprene Expansion Joint, 65 mm	m		8	8
Structure Excavation	m^3	190		190
Porous Granular Embankment	m^3	173		173
Concrete Superstructure	m^3		512	512
Concrete Structure	m^3	96		96
Reinforcement Bars, Epoxy Coated	kg	8220	63975	72195
Mechanical Splice	Each	12		12
Bridge Seat Sealer	m^2	10		10
High Performance Enhanced Shotcrete	m^2		91	91
Epoxy Crack Sealing	m		20	20
Protective Coat **	m^2		1,770	1,770
Bridge Deck Grooving	m^2		1,210	1,210
Drainage System	L Sum		0.5	0.5
Name Plates	Each	2		2
Drainage Scupper DS-12	Each		4	4

** Includes Deck surface and Top of sidewalk on bridge and ramp

DRAWING LIST

3/01

REVISIONS	
NAME	DATE

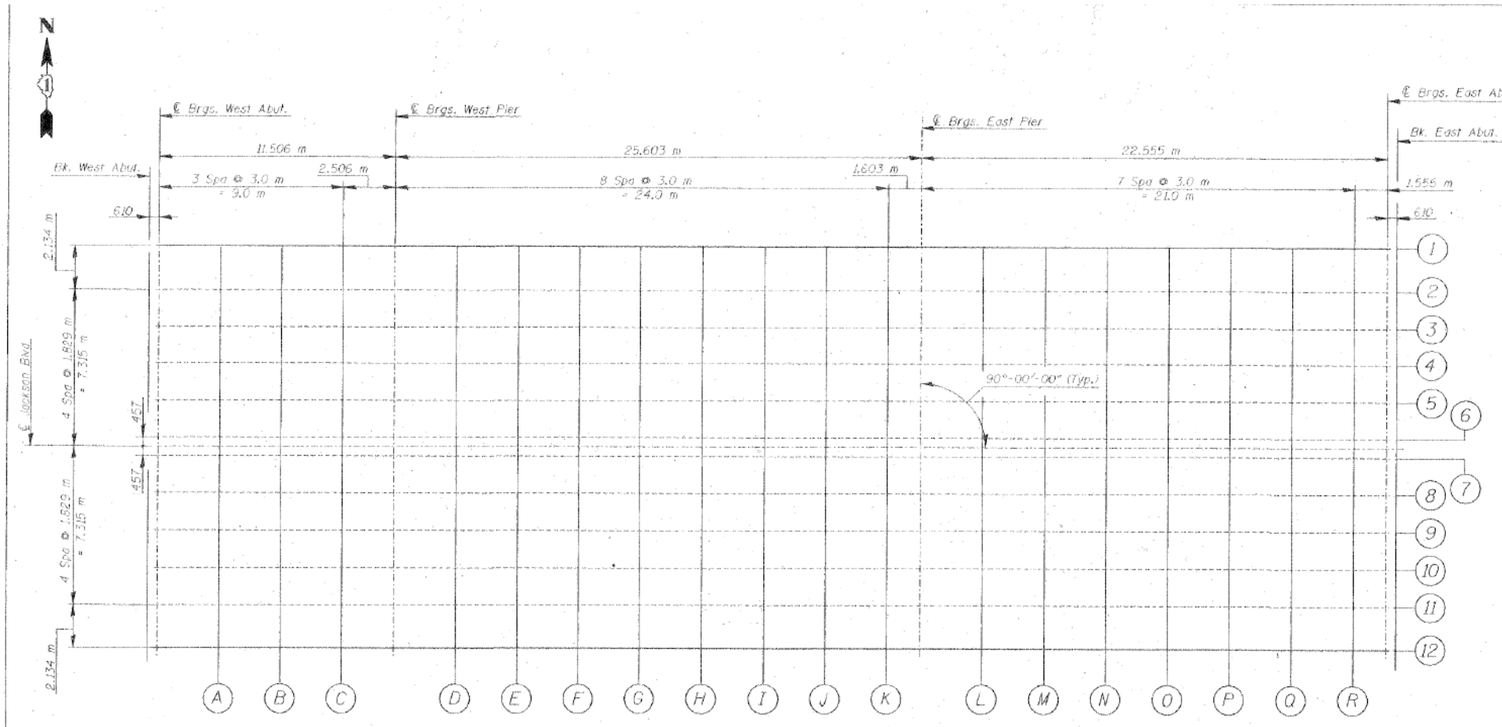
STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
GENERAL NOTES & QUANTITIES
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

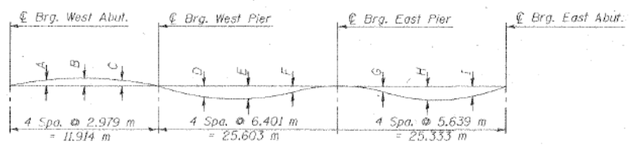
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	26
STA. 14350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-5 of 49



KEY PLAN



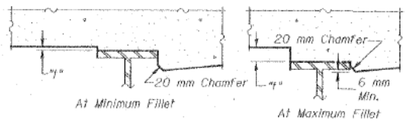
BEAMS 1 TO 12

DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

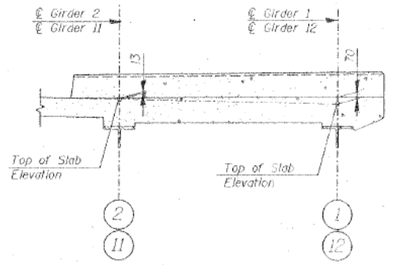
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below. All dimensions are in millimeters (mm) except as noted. All offsets are in meters.

BEAM	A	B	C	D	E	F	G	H	I
Bm 1	-1	-3	-3	21	38	25	-1	6	7
Bm 2 & 11	0	-1	-2	14	20	9	8	19	16
Bm 3, 4, 5, 8, 9 & 10	-1	-1	-2	13	19	9	7	16	14
Bm 6 & 7	-1	-1	-1	11	16	8	6	14	11
Bm 12	-1	-2	-2	16	24	11	10	23	20



To determine "Y": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on S6 through S9, minus slab thickness, equals the fillet heights "Y" above top flange of beams.

FILLET HEIGHTS



BEAMS 1, 2 & 11, 12

NOTES:

1. All dimensions are in millimeters (mm) except as noted.
2. All elevations and offsets are in meters.
3. "+" Deflection is downward "-" Deflection is upward.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS LOCATIONS
GRID AND DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY - C.J.L.
DATE 4-00 CHECKED BY E.K. CHECKED BY J.D.G.

6:38:25 PM
D:\62J31 SMT-AS-BUILT-04

TranSystems

USER NAME = wjcolletti	DESIGNED	EH	REVISED
	CHECKED	WJC	REVISED
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN	EH	REVISED
PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-04 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	231
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	27
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-6 of 49

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	-9.907	181.500	181.500
℄ Brg. West Abut.	1+313.121	-9.907	181.521	181.521
A	1+316.121	-9.907	181.613	181.611
B	1+319.121	-9.907	181.692	181.689
C	1+322.121	-9.907	181.759	181.756
℄ West Pier	1+324.627	-9.907	181.806	181.806
D	1+327.627	-9.907	181.850	181.860
E	1+330.627	-9.907	181.882	181.901
F	1+333.627	-9.907	181.902	181.933
G	1+336.627	-9.907	181.909	181.946
H	1+339.627	-9.907	181.904	181.940
I	1+342.627	-9.907	181.886	181.915
J	1+345.627	-9.907	181.856	181.874
K	1+348.627	-9.907	181.814	181.819
℄ East Pier	1+350.230	-9.907	181.786	181.786
L	1+353.230	-9.907	181.725	181.723
M	1+356.230	-9.907	181.651	181.648
N	1+359.230	-9.907	181.565	181.563
O	1+362.230	-9.907	181.466	181.472
P	1+365.230	-9.907	181.355	181.363
Q	1+368.230	-9.907	181.241	181.247
R	1+371.230	-9.907	181.126	181.128
℄ Brgs East Abut.	1+372.785	-9.907	181.067	181.067
Bk. of East Abut.	1+373.395	-9.907	181.043	181.043

All Elevations and Offsets are in Meters.
Negative Offsets are North

Beam 2

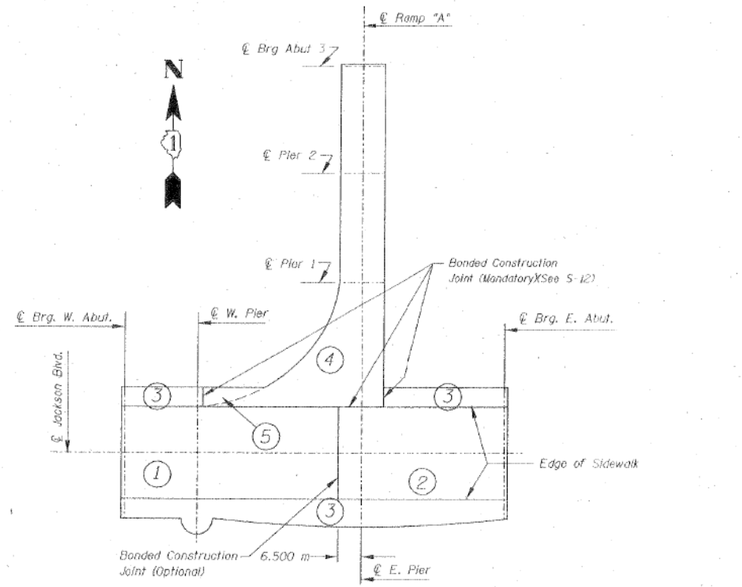
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	-7.773	181.543	181.543
℄ Brg. West Abut.	1+313.121	-7.773	181.563	181.563
A	1+316.121	-7.773	181.655	181.654
B	1+319.121	-7.773	181.735	181.734
C	1+322.121	-7.773	181.802	181.801
℄ West Pier	1+324.627	-7.773	181.849	181.849
D	1+327.627	-7.773	181.893	181.899
E	1+330.627	-7.773	181.925	181.938
F	1+333.627	-7.773	181.945	181.963
G	1+336.627	-7.773	181.952	181.971
H	1+339.627	-7.773	181.947	181.964
I	1+342.627	-7.773	181.929	181.94
J	1+345.627	-7.773	181.899	181.905
K	1+348.627	-7.773	181.857	181.858
℄ East Pier	1+350.230	-7.773	181.829	181.829
L	1+353.230	-7.773	181.767	181.77
M	1+356.230	-7.773	181.694	181.702
N	1+359.230	-7.773	181.607	181.623
O	1+362.230	-7.773	181.509	181.528
P	1+365.230	-7.773	181.398	181.416
Q	1+368.230	-7.773	181.283	181.297
R	1+371.230	-7.773	181.169	181.174
℄ Brgs East Abut.	1+372.785	-7.773	181.109	181.109
Bk. of East Abut.	1+373.395	-7.773	181.086	181.086

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	-5.944	181.580	181.580
℄ Brg. West Abut.	1+313.121	-5.944	181.600	181.600
A	1+316.121	-5.944	181.692	181.691
B	1+319.121	-5.944	181.771	181.770
C	1+322.121	-5.944	181.839	181.838
℄ West Pier	1+324.627	-5.944	181.885	181.885
D	1+327.627	-5.944	181.930	181.936
E	1+330.627	-5.944	181.962	181.974
F	1+333.627	-5.944	181.981	181.998
G	1+336.627	-5.944	181.988	182.007
H	1+339.627	-5.944	181.983	182.000
I	1+342.627	-5.944	181.966	181.978
J	1+345.627	-5.944	181.936	181.942
K	1+348.627	-5.944	181.893	181.894
℄ East Pier	1+350.230	-5.944	181.865	181.865
L	1+353.230	-5.944	181.804	181.807
M	1+356.230	-5.944	181.730	181.737
N	1+359.230	-5.944	181.644	181.658
O	1+362.230	-5.944	181.545	181.561
P	1+365.230	-5.944	181.435	181.451
Q	1+368.230	-5.944	181.320	181.332
R	1+371.230	-5.944	181.205	181.209
℄ Brgs East Abut.	1+372.785	-5.944	181.146	181.146
Bk. of East Abut.	1+373.395	-5.944	181.123	181.123

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	-4.115	181.616	181.616
℄ Brg. West Abut.	1+313.121	-4.115	181.636	181.636
A	1+316.121	-4.115	181.728	181.727
B	1+319.121	-4.115	181.808	181.807
C	1+322.121	-4.115	181.875	181.874
℄ West Pier	1+324.627	-4.115	181.923	181.922
D	1+327.627	-4.115	181.966	181.972
E	1+330.627	-4.115	181.998	182.010
F	1+333.627	-4.115	182.018	182.035
G	1+336.627	-4.115	182.025	182.044
H	1+339.627	-4.115	182.020	182.037
I	1+342.627	-4.115	182.002	182.014
J	1+345.627	-4.115	181.972	181.978
K	1+348.627	-4.115	181.930	181.931
℄ East Pier	1+350.230	-4.115	181.902	181.902
L	1+353.230	-4.115	181.841	181.844
M	1+356.230	-4.115	181.767	181.774
N	1+359.230	-4.115	181.680	181.694
O	1+362.230	-4.115	181.582	181.598
P	1+365.230	-4.115	181.471	181.487
Q	1+368.230	-4.115	181.356	181.368
R	1+371.230	-4.115	181.242	181.246
℄ Brgs East Abut.	1+372.785	-4.115	181.182	181.182
Bk. of East Abut.	1+373.395	-4.115	181.159	181.159



Pouring Sequence

1. Pouring Sequence Indicated by ◯ .
2. At Least 72 hours shall have elapsed from the end of the previous pour.
3. The concrete strength shall have a minimum modulus of rupture of MPa or a minimum compressive strength of 24MPa.
4. Sequence (1) shall start with counterweight and the deck west to East.
   Sequence (3) is sidewalk.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS
JACKSON BOULEVARD
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6:38:49 PM
016-0351 SHT-AS-BUILT-05

TranSystems

USER NAME = wjcolletti	DESIGNED	EH	REVISED
	CHECKED	WJC	REVISED
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN	EH	REVISED
PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-05 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	232
		CONTRACT NO. 62J31		
ILLINOIS	FED. AID PROJECT			

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	28
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-7 of 49

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	-2.286	181.646	181.646
℄ Brg. West Abut.	1+313.121	-2.286	181.666	181.665
A	1+316.121	-2.286	181.758	181.757
B	1+319.121	-2.286	181.838	181.837
C	1+322.121	-2.286	181.905	181.904
℄ West Pier	1+324.627	-2.286	181.951	181.951
D	1+327.627	-2.286	181.996	182.002
E	1+330.627	-2.286	182.028	182.040
F	1+333.627	-2.286	182.047	182.064
G	1+336.627	-2.286	182.055	182.074
H	1+339.627	-2.286	182.049	182.066
I	1+342.627	-2.286	182.032	182.044
J	1+345.627	-2.286	182.002	182.008
K	1+348.627	-2.286	181.959	181.960
℄ East Pier	1+350.230	-2.286	181.932	181.932
L	1+353.230	-2.286	181.870	181.873
M	1+356.230	-2.286	181.796	181.803
N	1+359.230	-2.286	181.710	181.724
O	1+362.230	-2.286	181.612	181.628
P	1+365.230	-2.286	181.501	181.517
Q	1+368.230	-2.286	181.386	181.398
R	1+371.230	-2.286	181.272	181.276
℄ Brgs East Abut.	1+372.785	-2.286	181.212	181.212
Bk. of East Abut.	1+373.395	-2.286	181.189	181.189

All Elevations and Offsets are in Meters
Negative Offsets are North.

Beam 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	0.457	181.673	181.673
℄ Brg. West Abut.	1+313.121	0.457	181.694	181.694
A	1+316.121	0.457	181.786	181.785
B	1+319.121	0.457	181.865	181.864
C	1+322.121	0.457	181.932	181.931
℄ West Pier	1+324.627	0.457	181.979	181.979
D	1+327.627	0.457	182.023	182.028
E	1+330.627	0.457	182.055	182.065
F	1+333.627	0.457	182.075	182.089
G	1+336.627	0.457	182.082	182.098
H	1+339.627	0.457	182.077	182.091
I	1+342.627	0.457	182.059	182.069
J	1+345.627	0.457	182.029	182.034
K	1+348.627	0.457	181.987	181.988
℄ East Pier	1+350.230	0.457	181.959	181.959
L	1+353.230	0.457	181.898	181.901
M	1+356.230	0.457	181.824	181.830
N	1+359.230	0.457	181.738	181.749
O	1+362.230	0.457	181.639	181.652
P	1+365.230	0.457	181.528	181.541
Q	1+368.230	0.457	181.414	181.424
R	1+371.230	0.457	181.299	181.302
℄ Brgs East Abut.	1+372.785	0.457	181.240	181.240
Bk. of East Abut.	1+373.395	0.457	181.216	181.216

℄ Jackson Blvd. & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	0.000	181.680	181.680
℄ Brg. West Abut.	1+313.121	0.000	181.701	181.701
A	1+316.121	0.000	181.792	181.791
B	1+319.121	0.000	181.872	181.871
C	1+322.121	0.000	181.939	181.938
℄ West Pier	1+324.627	0.000	181.986	181.986
D	1+327.627	0.000	182.030	182.035
E	1+330.627	0.000	182.062	182.072
F	1+333.627	0.000	182.082	182.096
G	1+336.627	0.000	182.089	182.105
H	1+339.627	0.000	182.084	182.098
I	1+342.627	0.000	182.066	182.076
J	1+345.627	0.000	182.036	182.041
K	1+348.627	0.000	181.994	181.995
℄ East Pier	1+350.230	0.000	181.966	181.966
L	1+353.230	0.000	181.905	181.908
M	1+356.230	0.000	181.831	181.837
N	1+359.230	0.000	181.745	181.756
O	1+362.230	0.000	181.646	181.659
P	1+365.230	0.000	181.535	181.548
Q	1+368.230	0.000	181.421	181.431
R	1+371.230	0.000	181.306	181.309
℄ Brgs East Abut.	1+372.785	0.000	181.247	181.247
Bk. of East Abut.	1+373.395	0.000	181.223	181.223

Beam 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	0.457	181.673	181.673
℄ Brg. West Abut.	1+313.121	0.457	181.694	181.694
A	1+316.121	0.457	181.786	181.785
B	1+319.121	0.457	181.865	181.864
C	1+322.121	0.457	181.932	181.931
℄ West Pier	1+324.627	0.457	181.979	181.979
D	1+327.627	0.457	182.023	182.028
E	1+330.627	0.457	182.055	182.065
F	1+333.627	0.457	182.075	182.089
G	1+336.627	0.457	182.082	182.098
H	1+339.627	0.457	182.077	182.091
I	1+342.627	0.457	182.059	182.069
J	1+345.627	0.457	182.029	182.034
K	1+348.627	0.457	181.987	181.988
℄ East Pier	1+350.230	0.457	181.959	181.959
L	1+353.230	0.457	181.898	181.901
M	1+356.230	0.457	181.824	181.83
N	1+359.230	0.457	181.738	181.749
O	1+362.230	0.457	181.639	181.652
P	1+365.230	0.457	181.526	181.541
Q	1+368.230	0.457	181.414	181.424
R	1+371.230	0.457	181.299	181.302
℄ Brgs East Abut.	1+372.785	0.457	181.240	181.240
Bk. of East Abut.	1+373.395	0.457	181.216	181.216

Beam 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	2.286	181.646	181.646
℄ Brg. West Abut.	1+313.121	2.286	181.666	181.666
A	1+316.121	2.286	181.758	181.757
B	1+319.121	2.286	181.838	181.837
C	1+322.121	2.286	181.905	181.904
℄ West Pier	1+324.627	2.286	181.951	181.951
D	1+327.627	2.286	181.996	182.002
E	1+330.627	2.286	182.028	182.040
F	1+333.627	2.286	182.047	182.064
G	1+336.627	2.286	182.055	182.074
H	1+339.627	2.286	182.049	182.066
I	1+342.627	2.286	182.032	182.044
J	1+345.627	2.286	182.002	182.008
K	1+348.627	2.286	181.959	181.960
℄ East Pier	1+350.230	2.286	181.932	181.932
L	1+353.230	2.286	181.870	181.873
M	1+356.230	2.286	181.796	181.803
N	1+359.230	2.286	181.710	181.724
O	1+362.230	2.286	181.612	181.628
P	1+365.230	2.286	181.501	181.517
Q	1+368.230	2.286	181.386	181.398
R	1+371.230	2.286	181.272	181.276
℄ Brgs East Abut.	1+372.785	2.286	181.212	181.212
Bk. of East Abut.	1+373.395	2.286	181.189	181.189

All Elevations and Offsets are in Meters.
Negative Offsets are North.

Beam 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	4.115	181.616	181.616
℄ Brg. West Abut.	1+313.121	4.115	181.636	181.636
A	1+316.121	4.115	181.728	181.727
B	1+319.121	4.115	181.808	181.807
C	1+322.121	4.115	181.875	181.874
℄ West Pier	1+324.627	4.115	181.922	181.922
D	1+327.627	4.115	181.966	181.972
E	1+330.627	4.115	181.998	182.010
F	1+333.627	4.115	182.018	182.035
G	1+336.627	4.115	182.025	182.044
H	1+339.627	4.115	182.020	182.037
I	1+342.627	4.115	182.002	182.014
J	1+345.627	4.115	181.972	181.978
K	1+348.627	4.115	181.930	181.931
℄ East Pier	1+350.230	4.115	181.902	181.902
L	1+353.230	4.115	181.841	181.844
M	1+356.230	4.115	181.767	181.774
N	1+359.230	4.115	181.680	181.694
O	1+362.230	4.115	181.582	181.598
P	1+365.230	4.115	181.471	181.487
Q	1+368.230	4.115	181.356	181.368
R	1+371.230	4.115	181.242	181.246
℄ Brgs East Abut.	1+372.785	4.115	181.182	181.182
Bk. of East Abut.	1+373.395	4.115	181.159	181.159

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS
JACKSON BOULEVARD
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-06 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	233
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	29
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-8 of 49

Beam 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	5.944	181.580	181.580
℄ Brg. West Abut.	1+313.121	5.944	181.600	181.600
A	1+316.121	5.944	181.692	181.691
B	1+319.121	5.944	181.771	181.770
C	1+322.121	5.944	181.839	181.838
℄ West Pier	1+324.627	5.944	181.885	181.885
D	1+327.627	5.944	181.930	181.936
E	1+330.627	5.944	181.962	181.974
F	1+333.627	5.944	181.981	181.998
G	1+336.627	5.944	181.988	182.007
H	1+339.627	5.944	181.983	182.000
I	1+342.627	5.944	181.966	181.978
J	1+345.627	5.944	181.936	181.942
K	1+348.627	5.944	181.893	181.894
℄ East Pier	1+350.230	5.944	181.865	181.865
L	1+353.230	5.944	181.804	181.807
M	1+356.230	5.944	181.730	181.737
N	1+359.230	5.944	181.644	181.658
O	1+362.230	5.944	181.545	181.561
P	1+365.230	5.944	181.435	181.451
Q	1+368.230	5.944	181.320	181.332
R	1+371.230	5.944	181.205	181.209
℄ Brgs East Abut.	1+372.785	5.944	181.146	181.146
Bk. of East Abut.	1+373.395	5.944	181.123	181.123

Beam 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	7.773	181.543	181.543
℄ Brg. West Abut.	1+313.121	7.773	181.563	181.563
A	1+316.121	7.773	181.655	181.654
B	1+319.121	7.773	181.735	181.734
C	1+322.121	7.773	181.802	181.801
℄ West Pier	1+324.627	7.773	181.849	181.849
D	1+327.627	7.773	181.893	181.899
E	1+330.627	7.773	181.925	181.938
F	1+333.627	7.773	181.945	181.963
G	1+336.627	7.773	181.952	181.971
H	1+339.627	7.773	181.947	181.964
I	1+342.627	7.773	181.929	181.940
J	1+345.627	7.773	181.899	181.905
K	1+348.627	7.773	181.857	181.858
℄ East Pier	1+350.230	7.773	181.829	181.829
L	1+353.230	7.773	181.767	181.770
M	1+356.230	7.773	181.694	181.702
N	1+359.230	7.773	181.607	181.623
O	1+362.230	7.773	181.509	181.528
P	1+365.230	7.773	181.398	181.416
Q	1+368.230	7.773	181.283	181.297
R	1+371.230	7.773	181.159	181.174
℄ Brgs East Abut.	1+372.785	7.773	181.109	181.109
Bk. of East Abut.	1+373.395	7.773	181.086	181.086

Beam 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of West Abut.	1+312.511	9.907	181.500	181.500
℄ Brg. West Abut.	1+313.121	9.907	181.521	181.521
A	1+316.121	9.907	181.613	181.612
B	1+319.121	9.907	181.692	181.690
C	1+322.121	9.907	181.759	181.757
℄ West Pier	1+324.627	9.907	181.806	181.806
D	1+327.627	9.907	181.850	181.857
E	1+330.627	9.907	181.882	181.898
F	1+333.627	9.907	181.902	181.923
G	1+336.627	9.907	181.909	181.933
H	1+339.627	9.907	181.904	181.925
I	1+342.627	9.907	181.886	181.900
J	1+345.627	9.907	181.856	181.862
K	1+348.627	9.907	181.814	181.815
℄ East Pier	1+350.230	9.907	181.786	181.786
L	1+353.230	9.907	181.725	181.729
M	1+356.230	9.907	181.651	181.662
N	1+362.230	9.907	181.565	181.584
O	1+362.230	9.907	181.466	181.489
P	1+365.230	9.907	181.355	181.378
Q	1+368.230	9.907	181.241	181.258
R	1+371.230	9.907	181.126	181.132
℄ Brgs East Abut.	1+372.785	9.907	181.067	181.067
Bk. of East Abut.	1+373.395	9.907	181.043	181.043

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS
JACKSON BOULEVARD
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

TranSystems

USER NAME = wjcolletti	DESIGNED	EH	REVISED
	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-07 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	234
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	30
STA. 14350.230		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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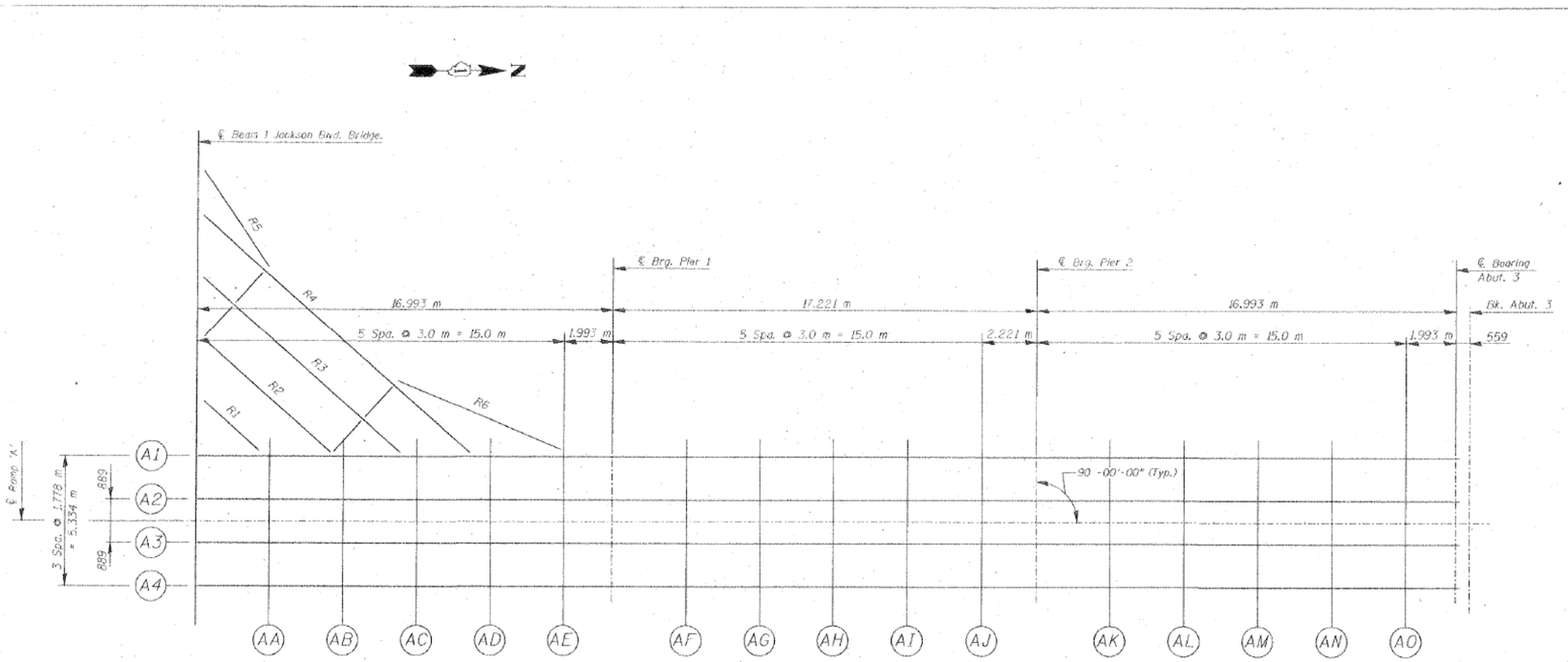
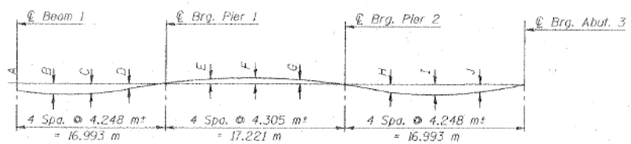


See sheet S12 for location grid and dead load deflection diagram for beams R1 - R6

KEY PLAN

(Ramp "A")



BEAM A1-A4

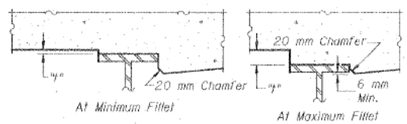
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below. Dead Load Deflection Diagrams Include Deflections from Beam 1 which effects the deflection of each Beam. All dimensions are in millimeters (mm) except as noted. All offsets are in meters.

BEAM	A	B	C	D	E	F	G	H	I	J
A1	6	42	53	32	-7	-6	-3	8	13	10
A2	2	22	27	15	0	3	0	15	28	21
A3	-1	20	26	14	0	3	0	15	28	21
A4	-3	19	28	15	0	3	0	15	28	21

Note: Negative ("-") Deflections are upward



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS LOCATIONS
GRID AND DETAILS RAMP "A"
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 14+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

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Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-08 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	235
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

RTE.	SECTION	COUNTY	SHEETS	NO.
90/94	0101-2-1B-R-1	COOK	226	31
STA. 14350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Beam A1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Fascia Stringer	2+039.596	-2.667	181.820	181.826
AA	2+042.596	-2.667	181.749	181.783
AB	2+045.596	-2.667	181.664	181.714
AC	2+048.596	-2.667	181.575	181.626
AD	2+051.596	-2.667	181.483	181.520
AE	2+054.596	-2.667	181.389	181.383
C.L. Pier 1	2+056.589	-2.667	181.284	181.284
AF	2+059.589	-2.667	181.145	181.138
AG	2+062.589	-2.667	180.992	180.985
AH	2+065.589	-2.667	180.836	180.830
AI	2+068.589	-2.667	180.679	180.676
AJ	2+071.589	-2.667	180.523	180.523
C.L. Pier 2	2+073.810	-2.667	180.407	180.407
AK	2+076.810	-2.667	180.251	180.256
AL	2+079.810	-2.667	180.095	180.106
AM	2+082.810	-2.667	179.939	179.951
AN	2+085.810	-2.667	179.782	179.793
AO	2+088.810	-2.667	179.626	179.631
C.L. Abut.Brgs	2+090.803	-2.667	179.522	179.522

Beam A2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Fascia Stringer	2+039.596	-0.889	181.793	181.795
AA	2+042.596	-0.889	181.727	181.744
AB	2+045.596	-0.889	181.651	181.677
AC	2+048.596	-0.889	181.564	181.590
AD	2+051.596	-0.889	181.466	181.484
AE	2+054.596	-0.889	181.351	181.357
C.L. Pier 1	2+056.589	-0.889	181.266	181.266
AF	2+059.589	-0.889	181.127	181.126
AG	2+062.589	-0.889	180.974	180.976
AH	2+065.589	-0.889	180.818	180.820
AI	2+068.589	-0.889	180.661	180.662
AJ	2+071.589	-0.889	180.505	180.504
C.L. Pier 2	2+073.810	-0.889	180.389	180.389
AK	2+076.810	-0.889	180.233	180.243
AL	2+079.810	-0.889	180.077	180.098
AM	2+082.810	-0.889	179.921	179.947
AN	2+085.810	-0.889	179.764	179.787
AO	2+088.810	-0.889	179.608	179.619
C.L. Abut.Brgs	2+090.803	-0.889	179.504	179.504

℄ Ramp "A" & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Fascia Stringer	2+039.596	0.00	181.777	181.777
AA	2+042.596	0.00	181.716	181.732
AB	2+045.596	0.00	181.644	181.669
AC	2+048.596	0.00	181.558	181.583
AD	2+051.596	0.00	181.457	181.475
AE	2+054.596	0.00	181.342	181.348
C.L. Pier 1	2+056.589	0.00	181.257	181.257
AF	2+059.589	0.00	181.118	181.117
AG	2+062.589	0.00	180.965	180.967
AH	2+065.589	0.00	180.809	180.811
AI	2+068.589	0.00	180.652	180.653
AJ	2+071.589	0.00	180.496	180.495
C.L. Pier 2	2+073.810	0.00	180.380	180.380
AK	2+076.810	0.00	180.224	180.234
AL	2+079.810	0.00	180.068	180.089
AM	2+082.810	0.00	179.912	179.938
AN	2+085.810	0.00	179.755	179.778
AO	2+088.810	0.00	179.599	179.610
C.L. Abut.Brgs	2+090.803	0.00	179.495	179.495

Beam A3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Fascia Stringer	2+039.596	0.889	181.758	181.757
AA	2+042.596	0.889	181.700	181.717
AB	2+045.596	0.889	181.630	181.656
AC	2+048.596	0.889	181.546	181.572
AD	2+051.596	0.889	181.448	181.466
AE	2+054.596	0.889	181.333	181.339
C.L. Pier 1	2+056.589	0.889	181.248	181.248
AF	2+059.589	0.889	181.109	181.108
AG	2+062.589	0.889	180.956	180.958
AH	2+065.589	0.889	180.800	180.802
AI	2+068.589	0.889	180.643	180.644
AJ	2+071.589	0.889	180.487	180.486
C.L. Pier 2	2+073.810	0.889	180.371	180.371
AK	2+076.810	0.889	180.215	180.225
AL	2+079.810	0.889	180.059	180.080
AM	2+082.810	0.889	179.903	179.929
AN	2+085.810	0.889	179.746	179.769
AO	2+088.810	0.889	179.590	179.601
C.L. Abut.Brgs	2+090.803	0.889	179.486	179.486

Beam A4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Fascia Stringer	2+039.596	2.667	181.722	181.719
AA	2+042.596	2.667	181.668	181.682
AB	2+045.596	2.667	181.603	181.627
AC	2+048.596	2.667	181.524	181.551
AD	2+051.596	2.667	181.429	181.444
AE	2+054.596	2.667	181.315	181.321
C.L. Pier 1	2+056.589	2.667	181.230	181.230
AF	2+059.589	2.667	181.091	181.090
AG	2+062.589	2.667	180.938	180.940
AH	2+065.589	2.667	180.782	180.785
AI	2+068.589	2.667	180.625	180.626
AJ	2+071.589	2.667	180.469	180.468
C.L. Pier 2	2+073.810	2.667	180.353	180.353
AK	2+076.810	2.667	180.197	180.207
AL	2+079.810	2.667	180.041	180.062
AM	2+082.810	2.667	179.885	179.912
AN	2+085.810	2.667	179.728	179.752
AO	2+088.810	2.667	179.572	179.583
C.L. Abut.Brgs	2+090.803	2.667	179.468	179.468

All Elevations and Offsets are in Meters.
Negative Offsets are West

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP DECK ELEVATIONS
RAMP "A"
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-09 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	236
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	32
STA. 14350.230	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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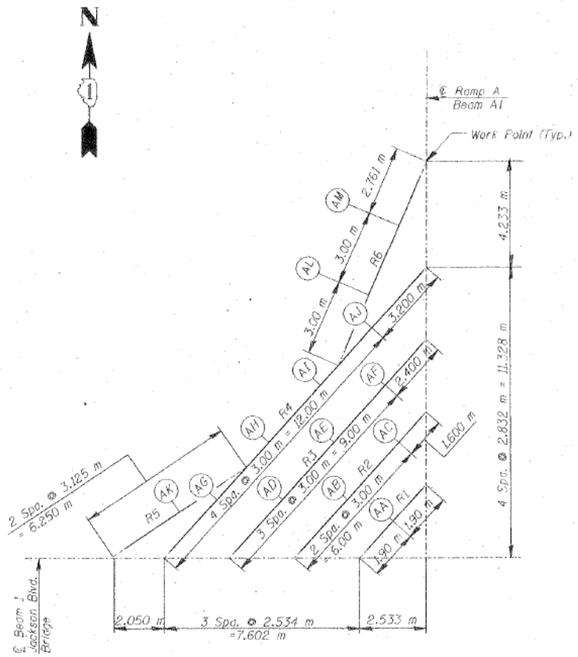
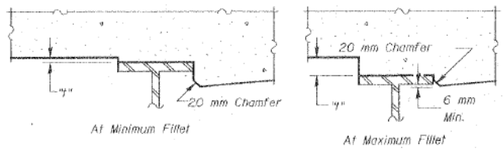
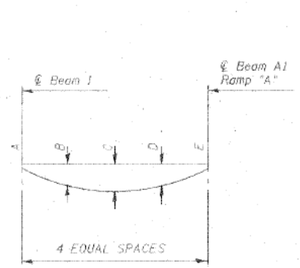


KEY PLAN

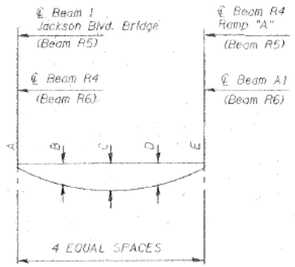


To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at locations shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



BEAMS R1 - R4



BEAMS R5 & R6

DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below. All dimensions are in millimeters (mm) except as noted. All offsets are in meters.

BEAM	A	B	C	D	E
R1	10	16	21	26	31
R2	14	25	34	42	49
R3	16	34	46	52	53
R4	16	64	85	75	42
R5	15	30	44	58	71
R6	80	66	44	30	10

BEAM R1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam 1	2+039.596	-5.201	181.853	181.868
AA	2+041.012	-3.934	181.803	181.825
CL Beam A1	2+042.428	-2.667	181.754	181.778

BEAM R2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam 1	2+039.596	-7.736	181.878	181.890
AB	2+041.832	-5.735	181.797	181.825
AC	2+044.067	-3.735	181.717	181.750
CL Beam A1	2+045.260	-2.667	181.673	181.708

BEAM R3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam 1	2+039.596	-10.270	181.893	181.904
AD	2+041.832	-8.269	181.814	181.840
AE	2+044.067	-6.269	181.735	181.778
AF	2+046.303	-4.268	181.654	181.697
CL Beam A1	2+048.092	-2.667	181.590	181.624

BEAM R4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam 1	2+039.596	-12.804	181.899	181.909
AG	2+041.832	-10.804	181.824	181.858
AH	2+044.067	-8.803	181.750	181.796
AI	2+046.303	-6.802	181.672	181.744
AJ	2+048.538	-4.802	181.592	181.634
CL Beam A1	2+050.924	-2.667	181.505	181.528

BEAM R5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam 1	2+039.596	-14.854	181.897	181.906
AK	2+041.345	-12.267	181.842	181.873
CL Beam R4	2+043.094	-9.674	181.782	181.823

BEAM R6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL Beam R4	2+047.094	-6.094	181.644	181.705
AL	2+049.855	-4.921	181.554	181.590
AM	2+052.616	-3.747	181.455	181.474
CL Beam A1	2+055.157	2.667	181.345	181.383

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP OF DECK ELEVATIONS LOCATIONS GRID & DETAILS RADIUS IMPROVEMENT - RAMP "A" JACKSON BOULEVARD, FAU 1422 OVER JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY E.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/4/2019 PM
D:\62J31-SMT-AS-BUILT-10

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

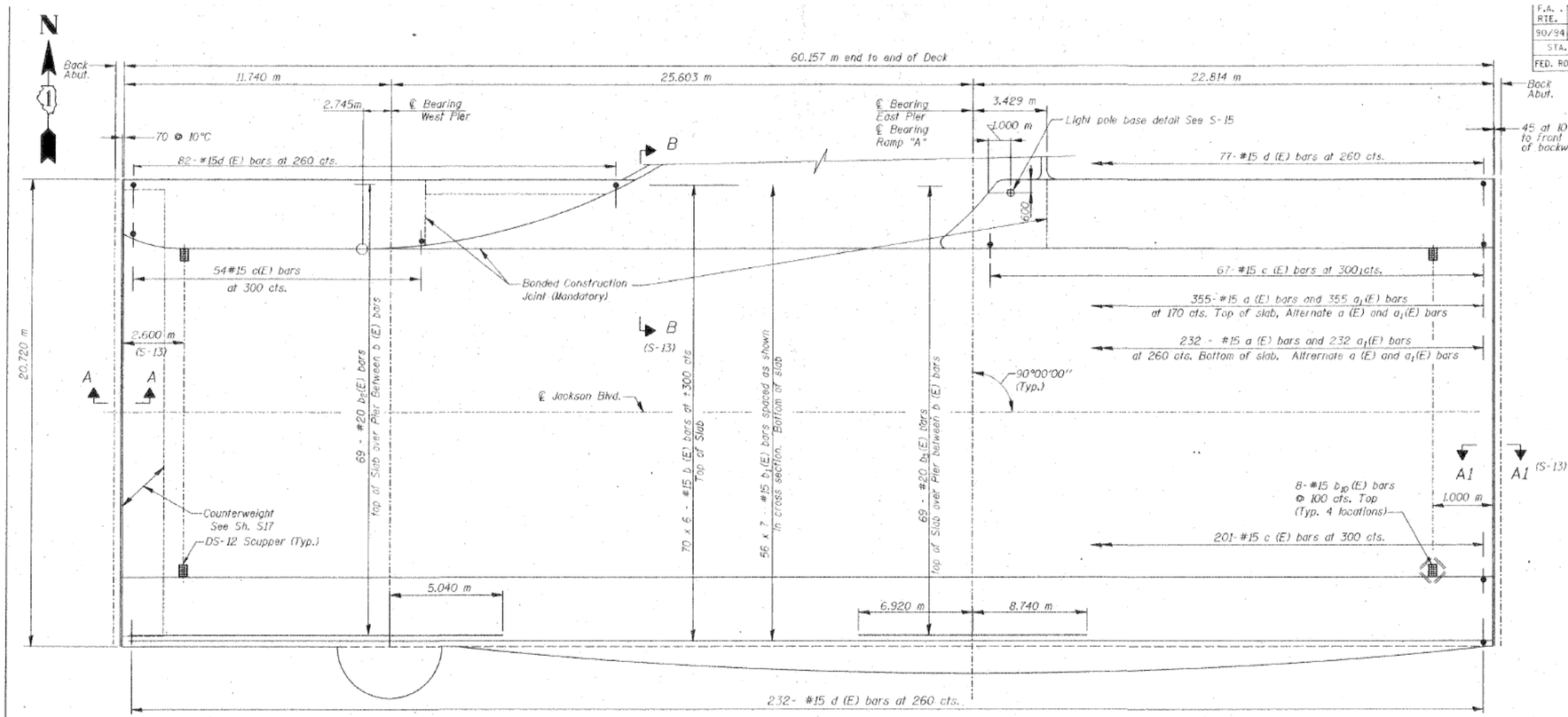
SHEET NO. AB-10 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	237
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

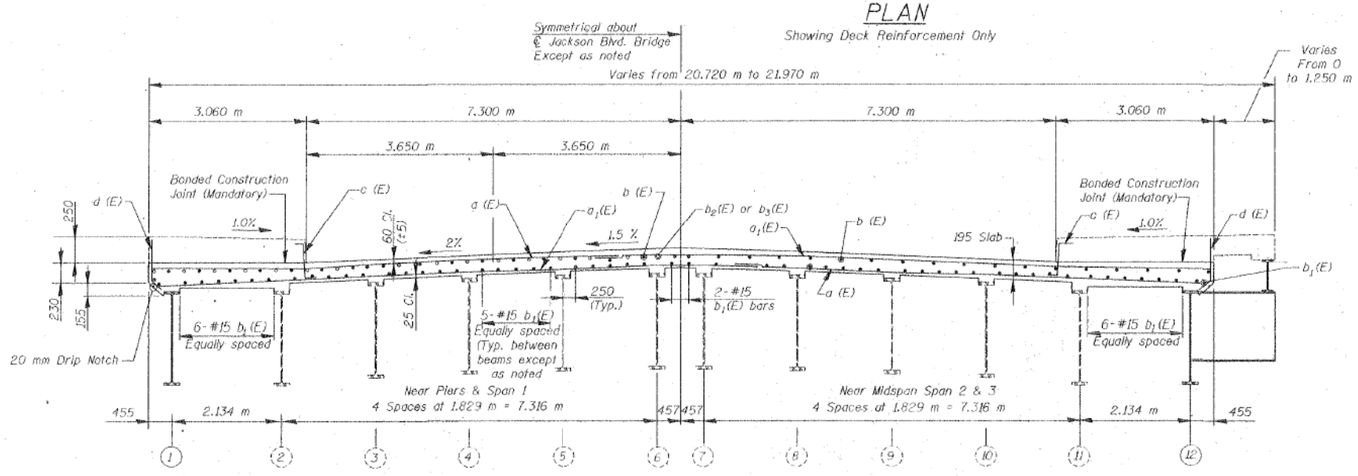
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	33
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-12 of 49



PLAN

Showing Deck Reinforcement Only



TYPICAL CROSS SECTION

(Looking East)

DECK GENERAL NOTES:

1. All dimensions are in millimeters (mm) unless otherwise noted.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Bars indicated thus: 1x2 - #15 etc., indicates 1 line of bars with 2 lengths per line.
4. Typical splice length for #15 bars to be 640 mm min. and #20 790 mm min. unless otherwise noted.
5. All exposed edges shall have 20 mm chamfers unless otherwise noted.
6. Work this Sheet with electrical and architectural drawings for additional embedded items (conduits, etc.).

NOTES:

1. For Bill of Material, see Sheet S-16
2. For Sidewalk reinforcement see Sheet S-14 and S-15.
3. For details of attaching fascia panel & railing, see Architectural Sheets.
4. For Expansion Joint Details see Sheet S-13
5. See Sheet S-16 for counterweight concrete plan & details.
6. See Sheet S13 for Sections and details.
7. For Scupper details see Sheet S-31.

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PLAN AND CROSS SECTION

JACKSON BOULEVARD, FAU 1422 OVER

JOHN F. KENNEDY EXPRESSWAY, FAI 90/94

SECTION 0101-2-1B-R-1 COOK COUNTY

STATION 1+350.230 STRUCTURE NO. 016-0588

DESIGNED BY J.D.G. DRAWN BY C.U.

DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/4/16 PM
D:\62J31 SHT-AS-BUILT-11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-11 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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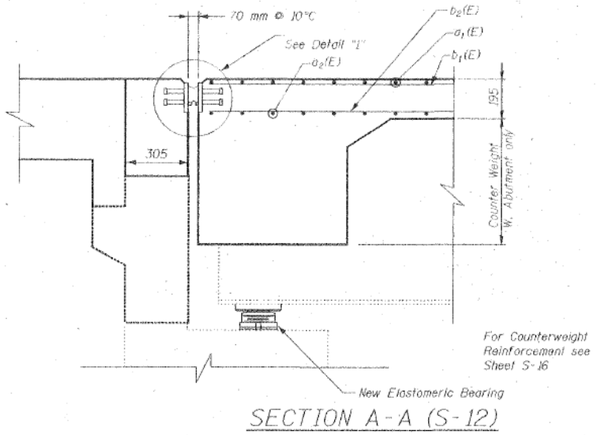
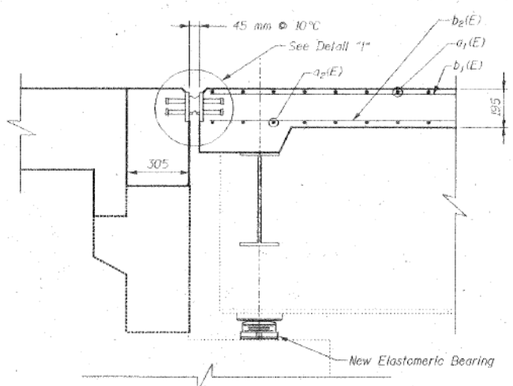
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

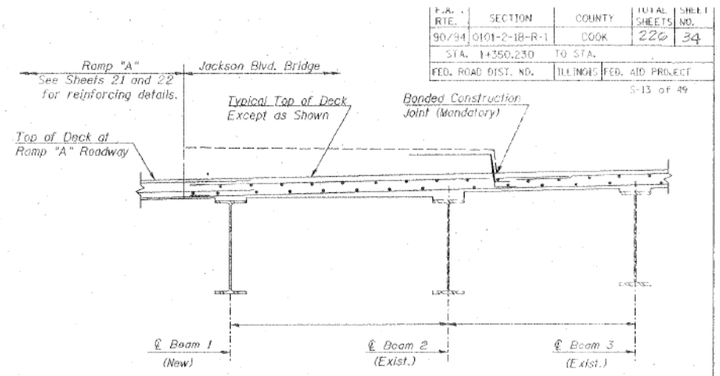
FOR INFORMATION ONLY



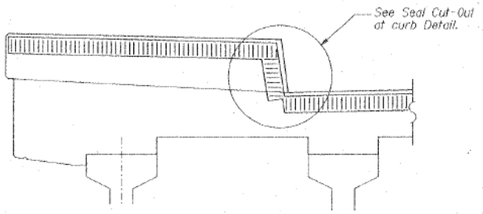
SECTION A-A (S-12)



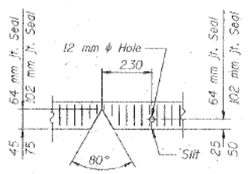
SECTION A1-A1 (S-12)



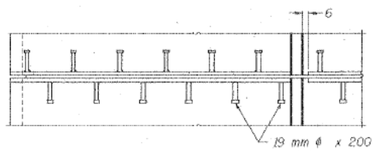
SECTION B-B (S-12)

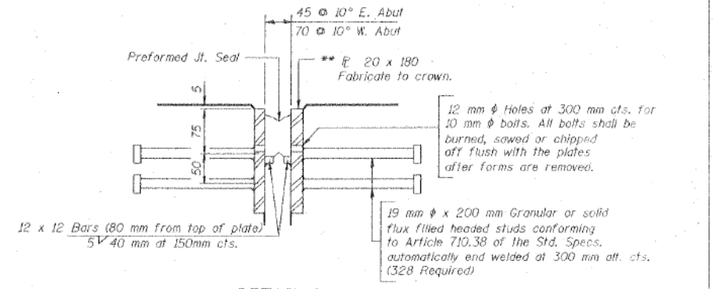


SECTION THRU SIDEWALK



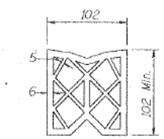
SEAL CUT-OUT AT CURB



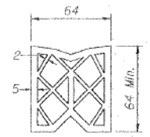


DETAIL 1

** Furnish in segments of 6 m maximum length. Maximum space between installed segments shall be 5 mm. Seal space with Silicone Sealant suitable for Structural Steel.



PREFORMED JOINT SEAL (102 mm)



PREFORMED JOINT SEAL (64 mm)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	34
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-13 of 49

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE DECK DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY D.K. CHECKED BY J.D.G.

6/4/13:42 PM
D:\62J31-SHT-AS-BUILT-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-12 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	239
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	228	35
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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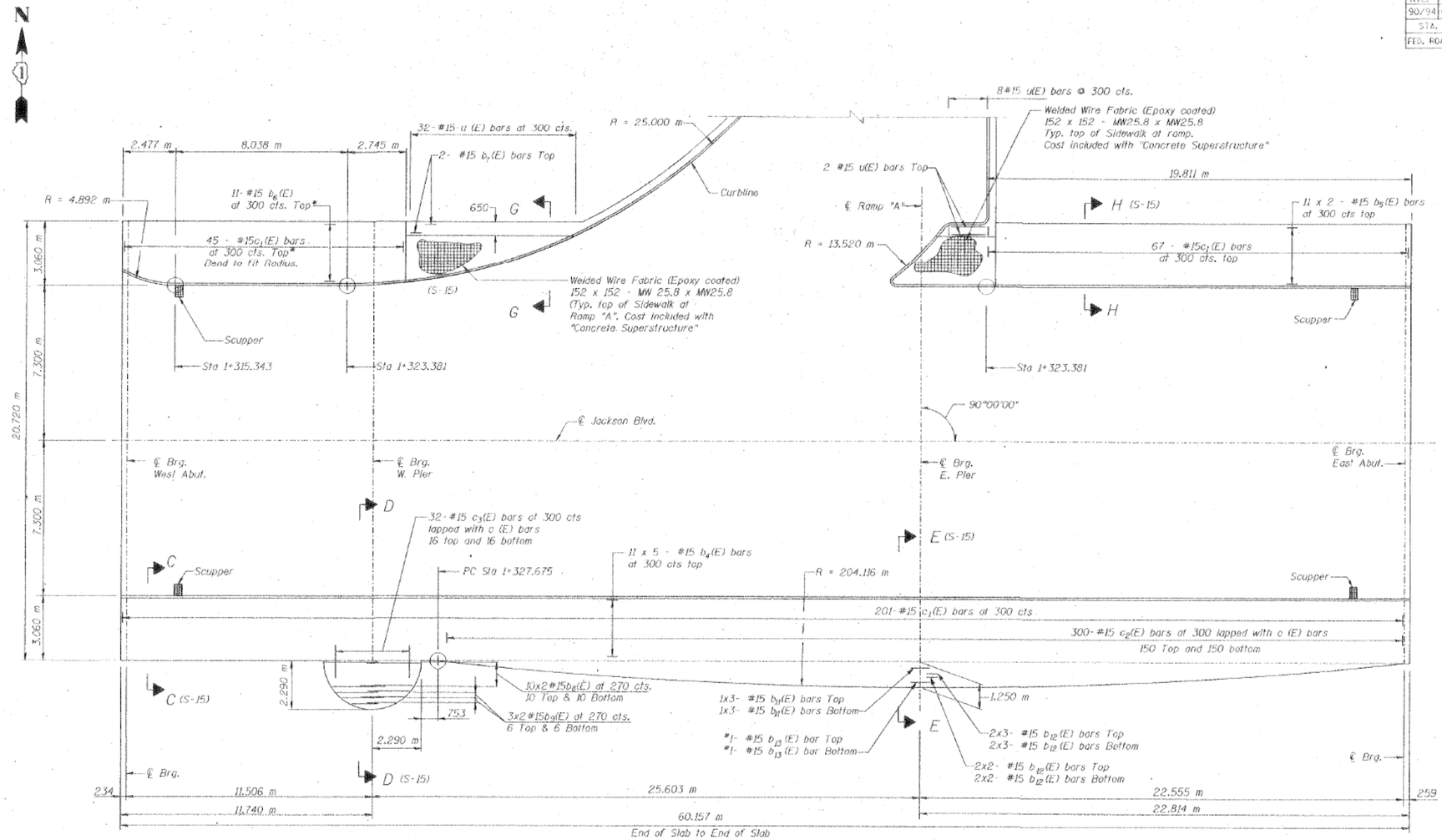

NOTES:

1. Work this sheet with Sheet S-12
2. See "Deck General Notes" on Sheet S-12
3. For total bill of material, see Sheet S-4.
4. For deck reinforcement, see Sheet S-12
5. For details of attaching fascia panel & railing, see Architectural Sheets.
6. For expansion joint details see Sheet S-13
7. For curb line geometry and details, see Sheet S-1.
8. 20 mm Deep Sawcut joint in sidewalk. locations shown in Architectural Sheets.
9. Minimum splice length for welded wire fabric shall be 300 mm.
10. See Sheet S-12 for Scupper Locations, sections and details.

PLAN

Showing Sidewalk Reinforcement

* Bend bars in field to fit curb curve.

Minimum Lap length

#15 640 mm

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE SIDEWALK PLAN & DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.G.

6/12/2015 PM
D1623J1 SHT-AS-BUILT-13

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

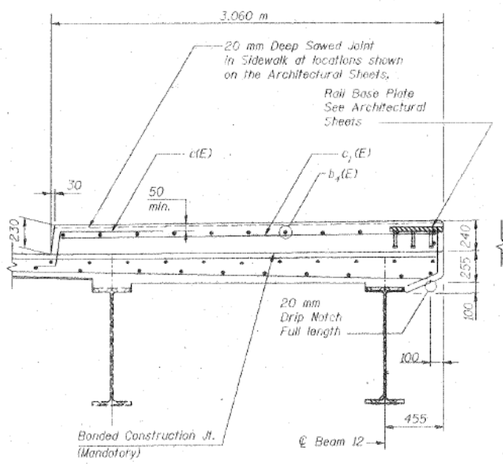
SHEET NO. AB-13 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	240
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

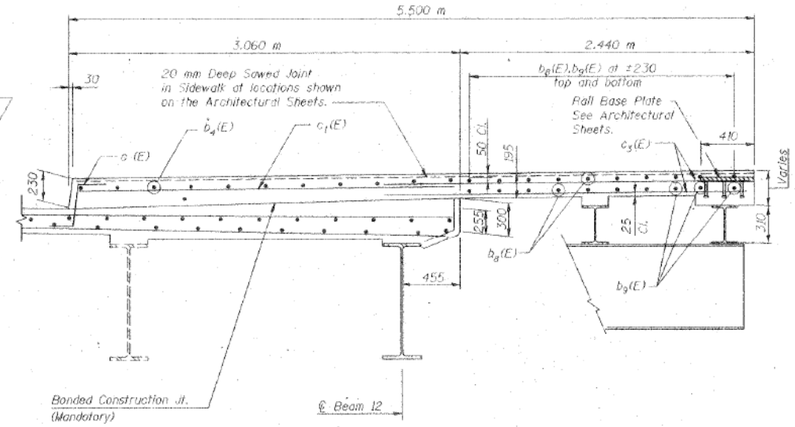
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	36
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-13 of 48



SECTION C-C (S-14)



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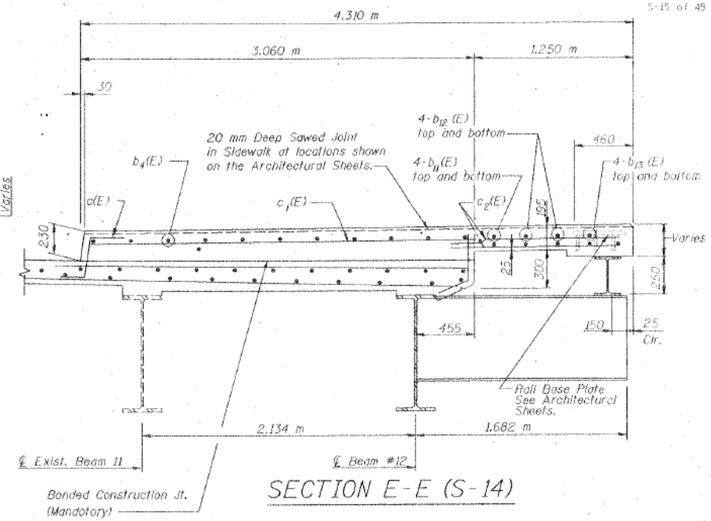

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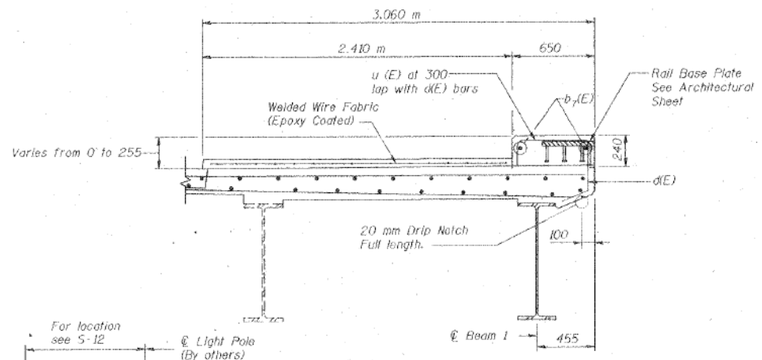

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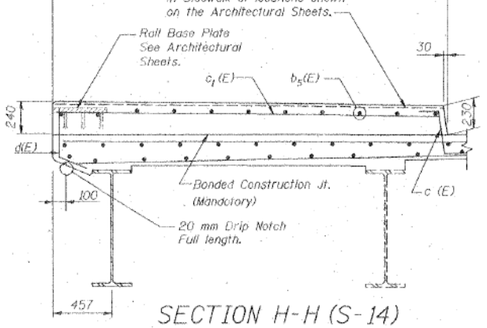
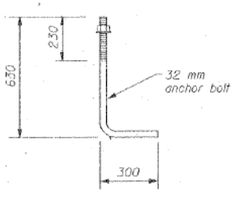
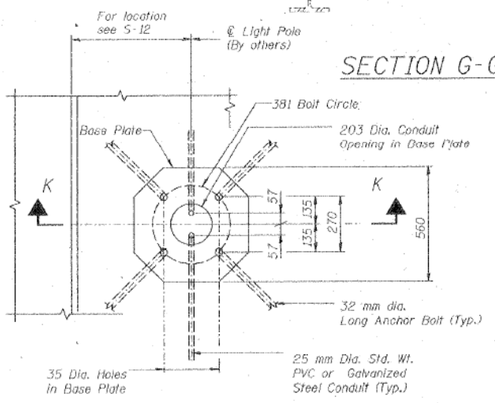


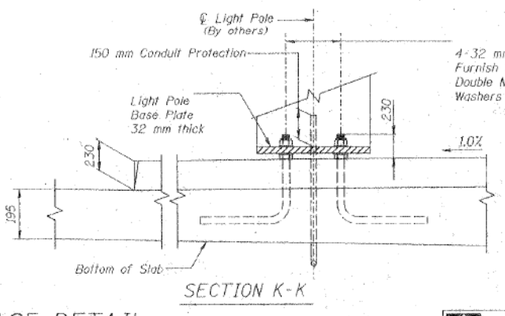
SECTION H-H (S-14)



ANCHOR BOLT DETAIL



PLAN



SECTION K-K

LIGHT POLE BASE DETAIL

Cost for Light Pole Foundation included with Street Light Pole 10.5 m Mast Arm. Use City of Chicago Standard for "Double-Nut" installation of poles and pedestals

NOTES:

1. Work this Sheet with Sheet S-14
2. See "Deck General Notes" on Sheet S-12.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE SIDEWALK SECTION AND DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

6/4/2019 PW
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
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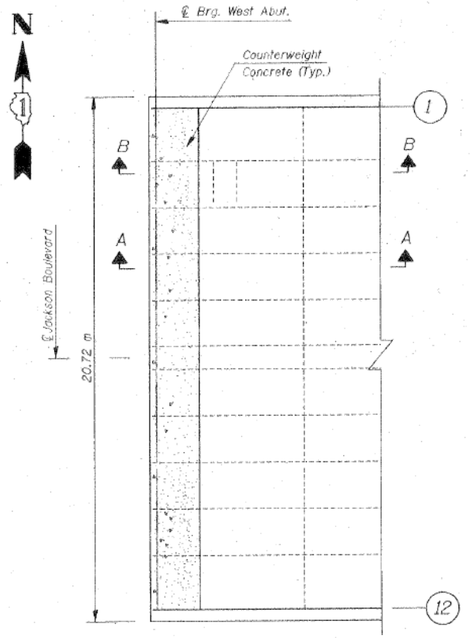
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

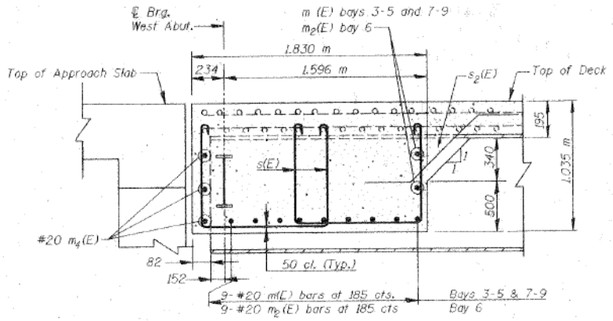
SHEET NO. AB-14 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	241
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

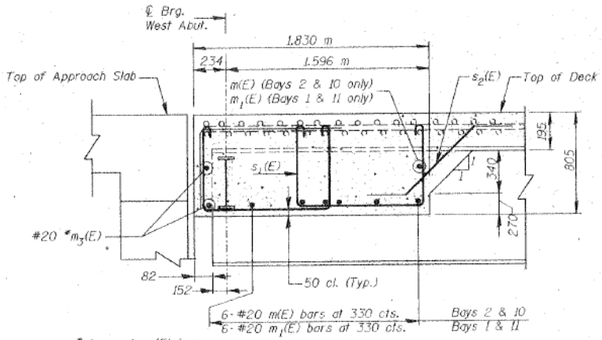
FOR INFORMATION ONLY



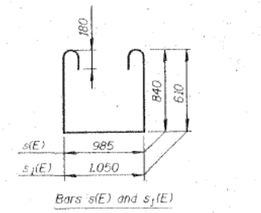
SECTIONAL DECK PLAN



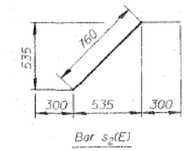
SECTION A-A
(Showing Counterweight)



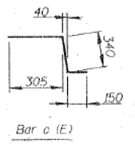
SECTION B-B



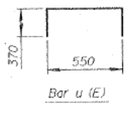
Bars s(E) and s_1(E)



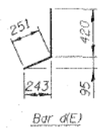
Bar s_2(E)



Bar c (E)

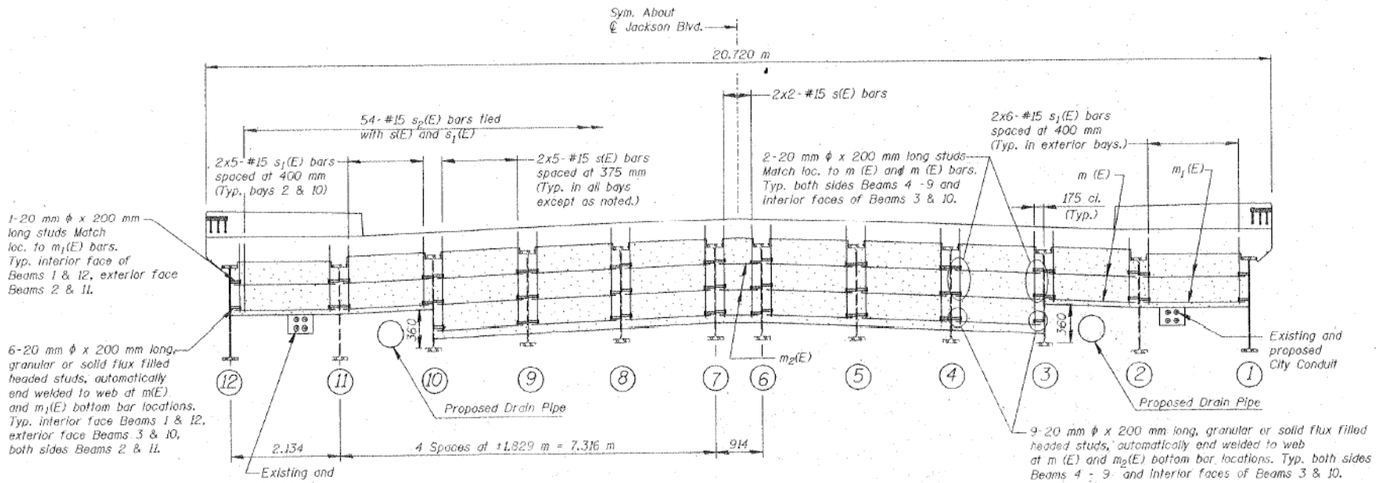


Bar u (E)



Bar d(E)

Bar d_1(E)



COUNTERWEIGHT ELEVATION AT WEST ABUTMENT
(Looking West)

RTE.			SHEET NO.	TOTAL SHEETS NO.
90/94	0101-2-1B-R-1	COOK	226	37
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-16 of 49

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH(m)	SHAPE
a (E)	587	15	10.000 m	
a_1(E)	587	15	11.260 m	
b (E)	420	15	10.550 m	
b_1(E)	392	15	9.130 m	
b_2(E)	69	20	16.730 m	
b_3(E)	69	20	15.660 m	
b_4(E)	55	15	12.522 m	
b_5(E)	22	15	10.420 m	
b_6(E)	11	15	13.260 m	
b_7(E)	2	15	8.260 m	
b_8(E)	20	15	3.010 m	
b_9(E)	12	15	2.510 m	
b_{10}(E)	32	15	1.000 m	
b_{11}(E)	6	15	13.930 m	
b_{12}(E)	20	15	11.740 m	
b_{13}(E)	2	15	12.663 m	
b_{14}(E)	2	15	3.400 m	
c (E)	322	15	0.790 m	
c_1(E)	313	15	2.960 m	
c_2(E)	300	15	1.760 m	
c_3(E)	32	15	2.300 m	
d(E)	391	15	0.671 m	
m(E)	80	20	1.779 m	
m_1(E)	14	20	2.084 m	
m_2(E)	11	20	0.870 m	
m_3(E)	4	20	4.600 m	
m_4(E)	3	20	11.800 m	
s(E)	64	15	3.025 m	
s_1(E)	44	15	2.630 m	
s_2(E)	54	15	1.360 m	
u (E)	40	15	1.290 m	

ITEM	UNIT	QUANTITY
Reinforcement Bars (Epoxy Coated)	kg.	44,295
Concrete Superstructure	m^3	398
Drainage Scuppers DS-12		4

Notes:
1. See "Deck General Notes" on Sheet S12
2. Work this Sheet with Sheets S12, S13, S14, S15
3. See sht. S-20 for Stud locations.

3/0

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
COUNTERWEIGHT CONCRETE PLAN & ELEVATION
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNT
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.J.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St., Chicago, IL 60602-4207

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-15 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	242
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

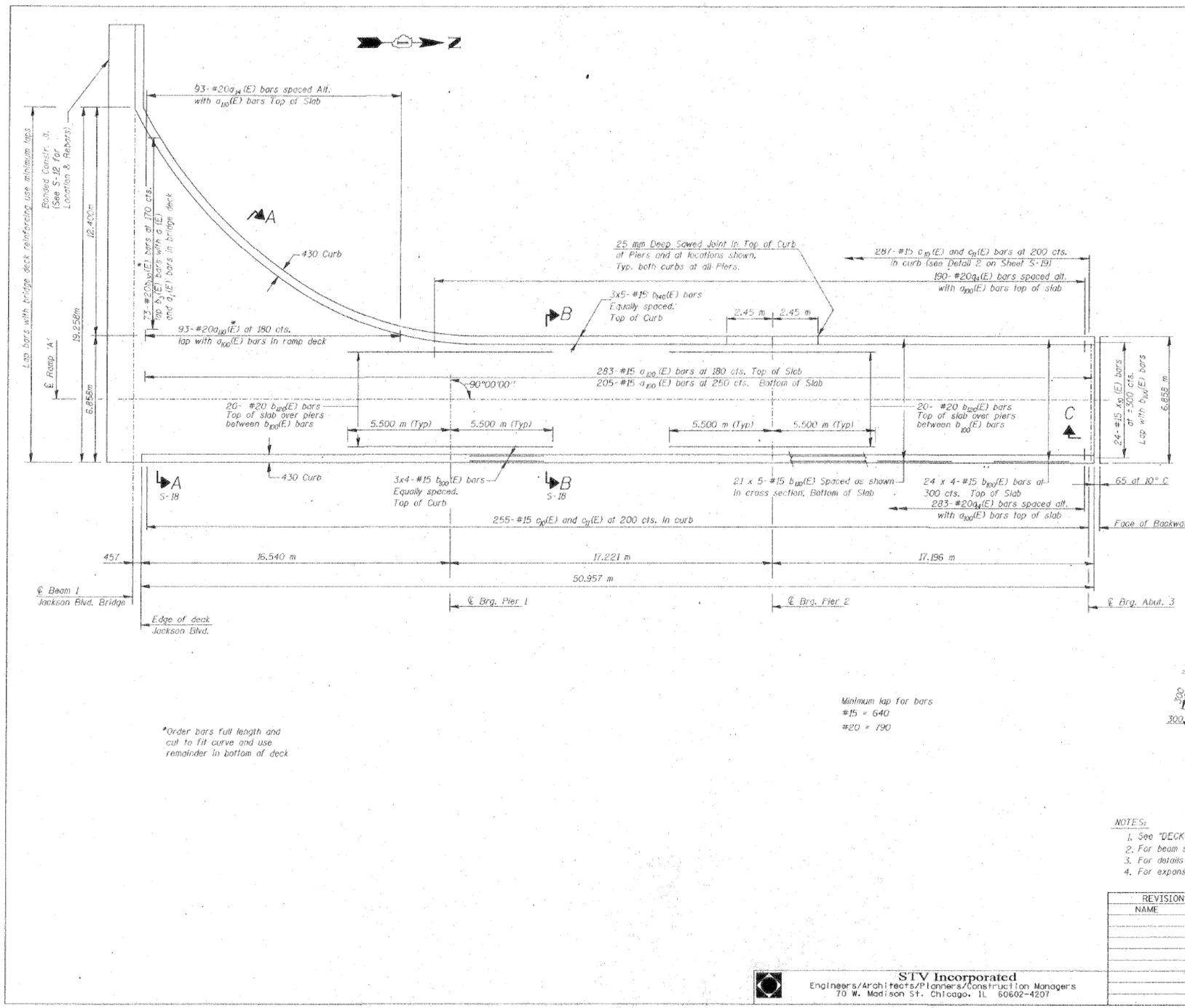
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	38
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-17 of 49

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$a_{100}(E)$	488	#15	6.750 m	
$a_{110}(E)$	93	#20	14.100 m	
$a_{14}(E)$	566	#20	1.520 m	
$b_{100}(E)$	96	#15	13.370 m	
$b_{110}(E)$	105	#15	10.820 m	
$b_{120}(E)$	40	#15	11.000 m	
$b_{130}(E)$	73	#20	17.800 m	
$b_{140}(E)$	15	#15	12.143 m	
$c_{10}(E)$	542	#15	0.750 m	
$c_{11}(E)$	542	#15	4.100 m	
$x_{16}(E)$	24	#15	1.28 m	

ITEM	UNIT	QUANTITY
Reinforced Bars Epoxy Coated	kg.	19.680
Concrete Superstructure	m^3	114



*Order bars full length and cut to fit curve and use remainder in bottom of deck

Minimum lap for bars
#15 = 640
#20 = 790

NOTES:
1. See "DECK GENERAL NOTES" on sheet S12.
2. For beam spacing and location see sheet S18
3. For details of attaching facia panel & railing, see Architectural Sheets.
4. For expansion details see sheet S32

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A" DECK PLAN
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

6/13/17 PM
016231 SHT-AS-BUILT-16

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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

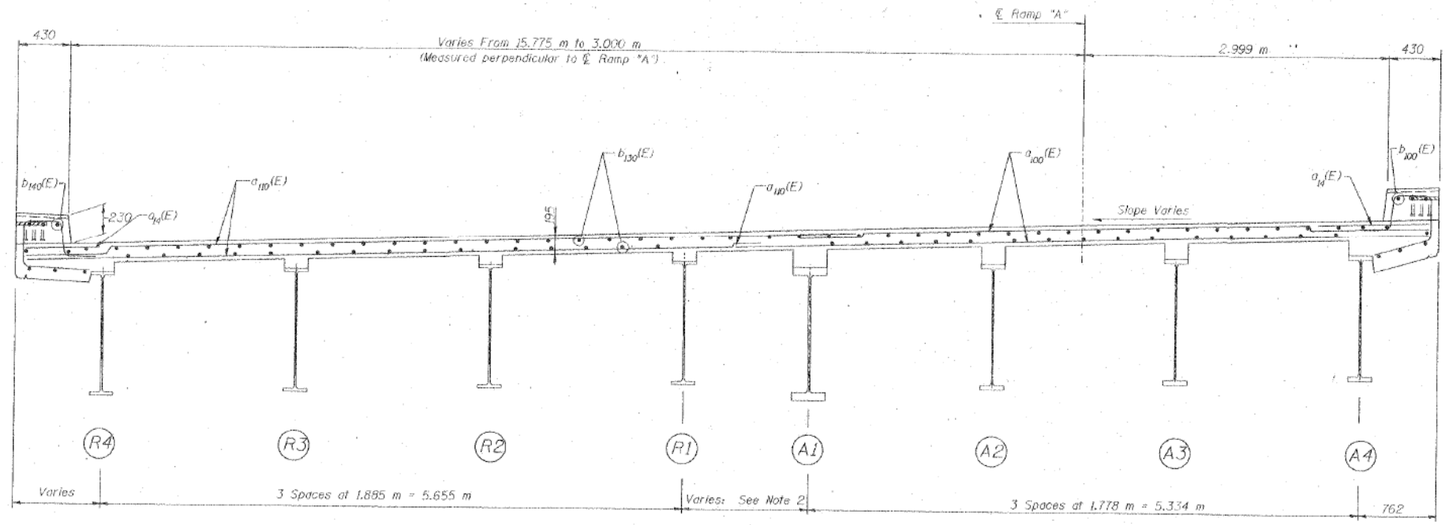
SHEET NO. AB-16 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	243
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	39
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-18 of 49



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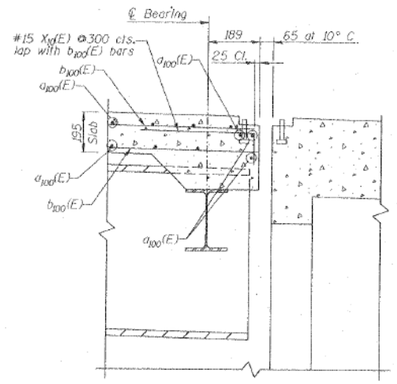

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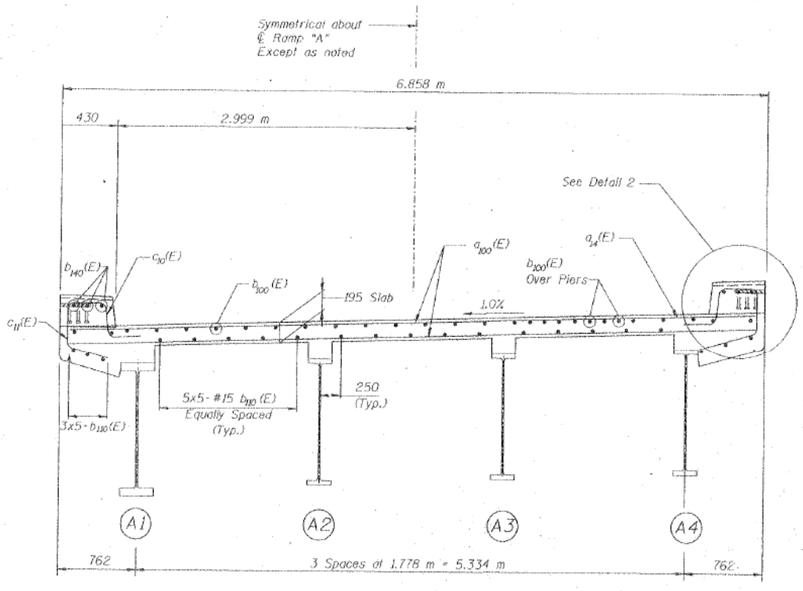

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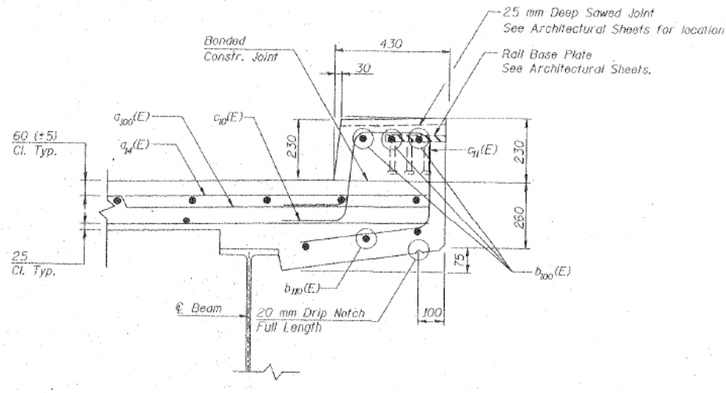

DETAIL 2

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
DECK CROSS SECTIONS & DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY; FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

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	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-17 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	244
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

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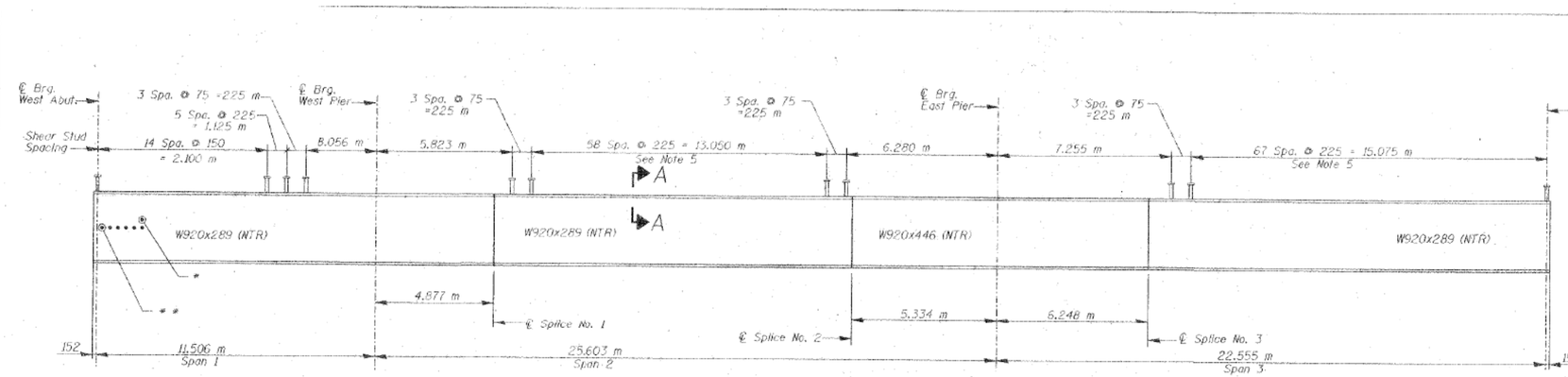
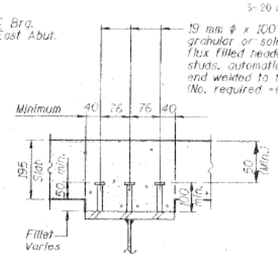
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	41
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

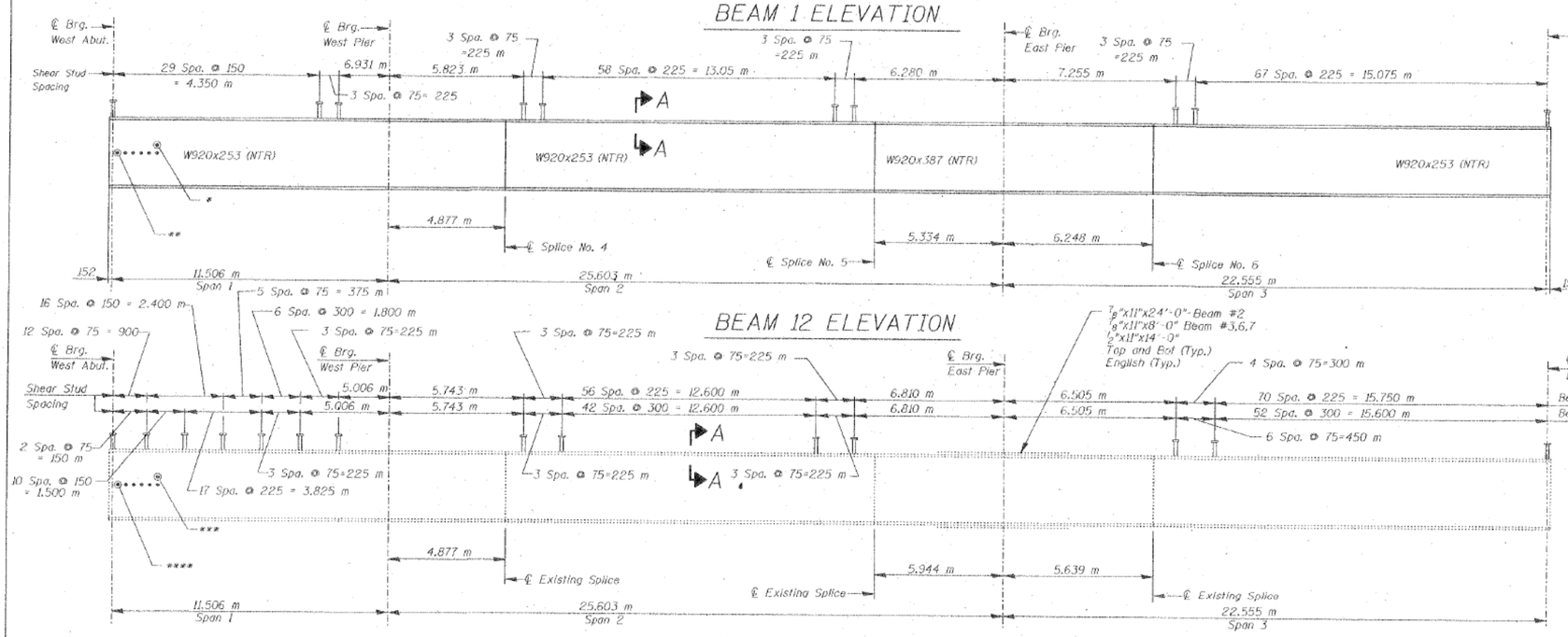
S-20 of 49



BEAM 1 ELEVATION



SECTION A-A



BEAM 12 ELEVATION

ELEVATION OF EXISTING BEAMS

* 1-20 mm ϕ x 200 mm long studs Match loc. to $m_1(E)$ bars. Typ. interior face of Beams 1 & 12, exterior face Beams 2 & 11.

** 6-20 mm ϕ x 200 mm long, granular or solid flux filled headed studs, automatically and welded to web at m(E) and $m_1(E)$ bottom bar locations. Typ. interior face Beams 1 & 12, exterior face Beams 3 & 10, both sides Beams 2 & 11.

*** 2-20 mm ϕ x 200 mm long studs Match loc. to $m_1(E)$ and m (E) bars. Typ. both sides Beams 4 -9 and interior faces of Beams 3 & 10.

**** 9-20 mm ϕ x 200 mm long, granular or solid flux filled headed studs, automatically and welded to web at m (E) and $m_2(E)$ bottom bar locations. Typ. both sides of Beams 4 - 9 and interior faces of Beams 3 & 10.

For additional standard detail see S-16

Notes:

1. All dimensions are in millimeters (mm) unless otherwise noted.
2. NTR denotes members to which notch toughness requirements are applicable.
3. For splice details see sheets S21 and S22
4. All structural steel for beams 1 & 12 shall be M270 M Grade 345
5. Adjust stud spacing to miss diaphragm strap plates.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
BEAM ELEVATIONS AND DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

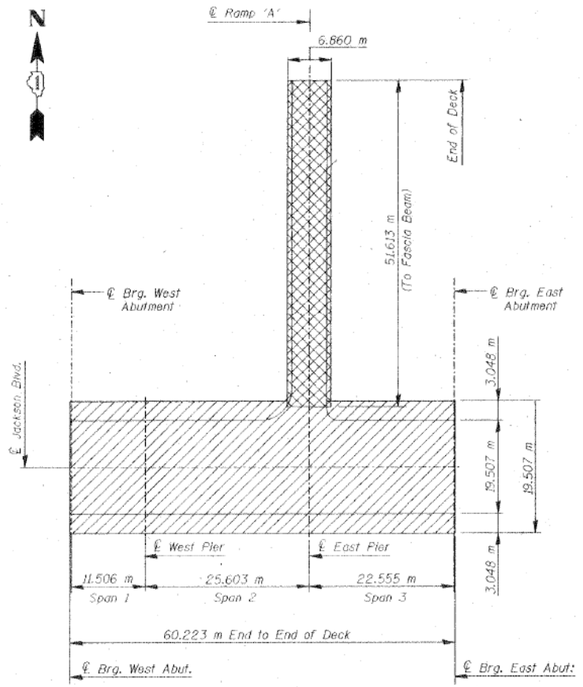
SHEET NO. AB-18 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	245
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

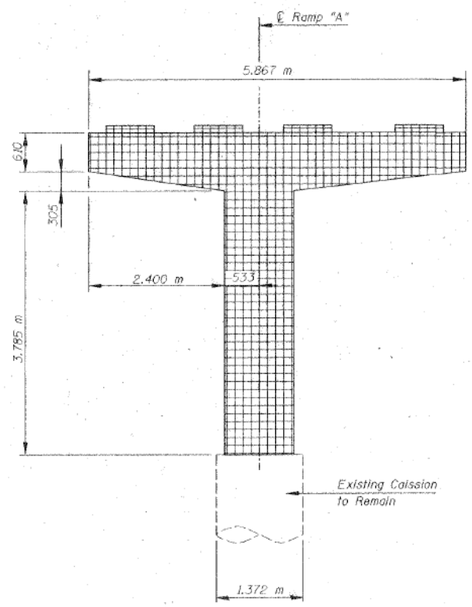
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	24
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-3 of 49



DECK PLAN

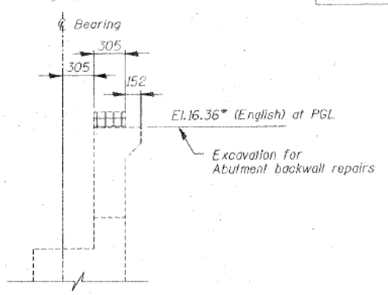
(Jackson Blvd. Deck Ramp "A" Superstructure)



ELEVATION OF PIER 1

(Ramp "A" Pier Removal)

* Elevation is taken from plans of the existing structure. Contractor to verify prior to construction.



ABUTMENT REPAIRS

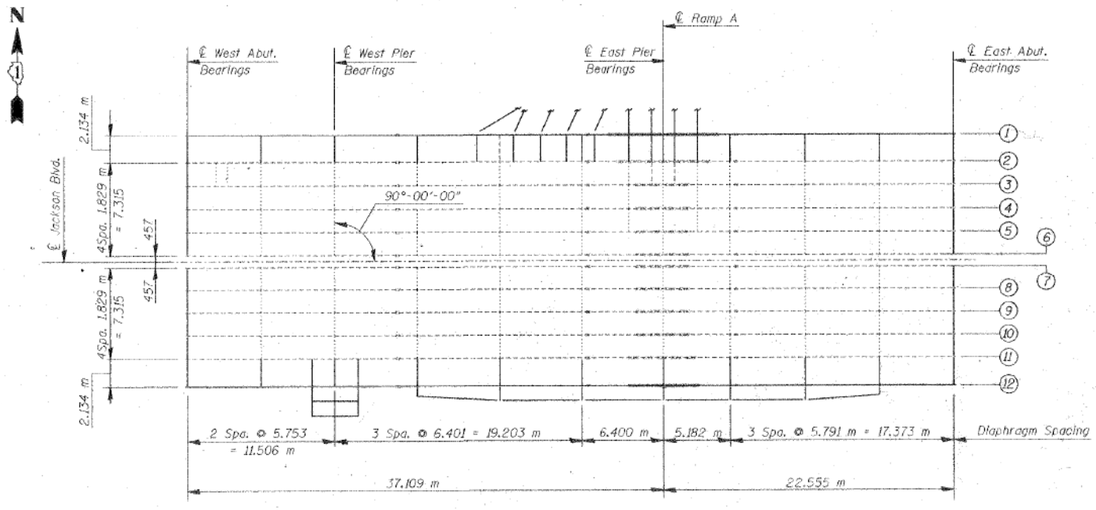
West Abut. Shown, East Abut Similar

Notes :

1 Removal of the existing railings and the existing wearing surface on the bridge is included in the cost of "Removal of Existing Concrete Deck"

2 Removal of the existing railings, existing wearing surface, and existing concrete deck of Ramp "A" is included in the cost of "Removal of Existing Superstructure"

3 Existing reinforcement extending into removed areas shall be cleaned, straightened and incorporated into the new construction. Cost included with "Concrete Removal".



EXIST. FRAMING PLAN

(Jackson Blvd. - Structural Steel Removal)

LEGEND

- Removal of Existing Concrete Deck
- Removal of Existing Superstructure
- Concrete Removal
- Structural Steel Removal

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE & RAMP "A" REMOVAL DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6144/23 PW
0102/31 SHT-AS-BUILT-19

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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

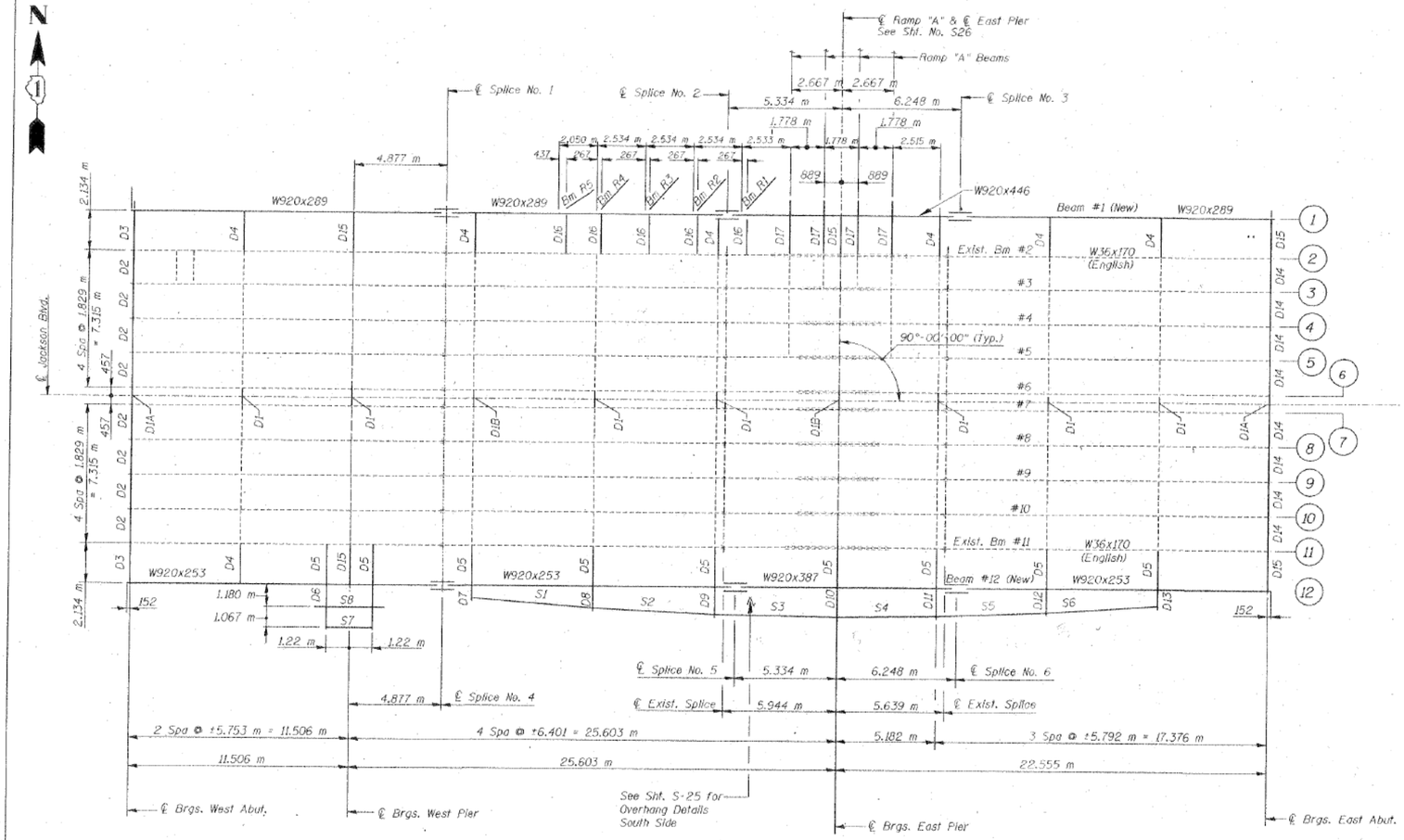
SHEET NO. AB-19 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	246
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	40
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-19 of 49



JACKSON BLVD. DIAPHRAGM LIST		
Item	Size	No. Req'd
D1	W410x53	7
D1A	W460x74	2
D1B	W460x74	2
D2	W460x74	8
D3	W460x74	2
D4	W410x53	7
D5	W690x125	9
D6	W690x125	2
D7 thru D13	W690x125	7
D14	W460x74	8
D15	W460x74	5
D16	W760x147	5
D17	W760x147	5

JACKSON BLVD. TOP OF BEAM ELEVATIONS	
LOCATION	ELEVATION
Beam 1 - W. Abutment	181.275
Beam 1 - W. Pier	181.504
Beam 1 - Splice 1	181.601
Beam 1 - Splice 2	181.569
Beam 1 - E. Pier	181.468
Beam 1 - Splice 3	181.349
Beam 1 - E. Abutment	180.822
Beam 12 - W. Abutment	181.275
Beam 12 - W. Pier	181.504
Beam 12 - Splice 4	181.601
Beam 12 - Splice 5	181.569
Beam 12 - E. Pier	181.468
Beam 12 - Splice 6	181.349
Beam 12 - E. Abutment	180.822

JACKSON BLVD. SIDEWALK FRAMING LIST	
Item	Size
S1	W250 x 67
S2	W250 x 67
S3	W250 x 67
S4	W250 x 67
S5	W250 x 67
S6	W250 x 67
S7	W310 x 60
S8	W310 x 60

Notes:

1. All dimensions are in millimeters (mm) unless otherwise noted.
2. For Entrance Ramp "A" framing plan , see sheet 26
3. See sheet S21, S22, S23, S24 and S25 for connection details.
4. Top of Beam elevations are given for fabrication only, and do not include the thicknesses of any cover plates or splice plates.
5. The contractor shall test the welds at the end of the existing welded cover plates for cracks after removal of the existing concrete deck. Tests shall be performed by qualified personnel using dye penetrant, magnetic particle, or other approved testing methods. If cracks are found, report them to the "Bureau of Bridges" and structures for further processing. The cost of testing is included in "Removal of Existing Concrete Deck". The cost of crack repair, if necessary, will be paid according to article 109.04 of the "Standard Specifications".
6. The Contractor shall survey and establish the top of beam elevations for beams 2 thru 11. The top of beam elevations shall be maintained following bearing replacement.

FRAMING PLAN

All existing beams are W36x194 (English) unless otherwise shown.

3/01

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE FRAMING PLAN
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.C. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.C.

6/4/4:47 PM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

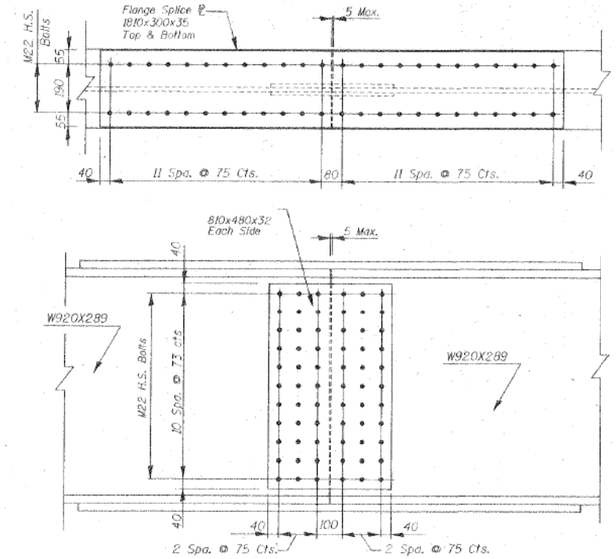
SHEET NO. AB-20 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	247
			CONTRACT NO. 62J31	
		ILLINOIS	FED. AID PROJECT	

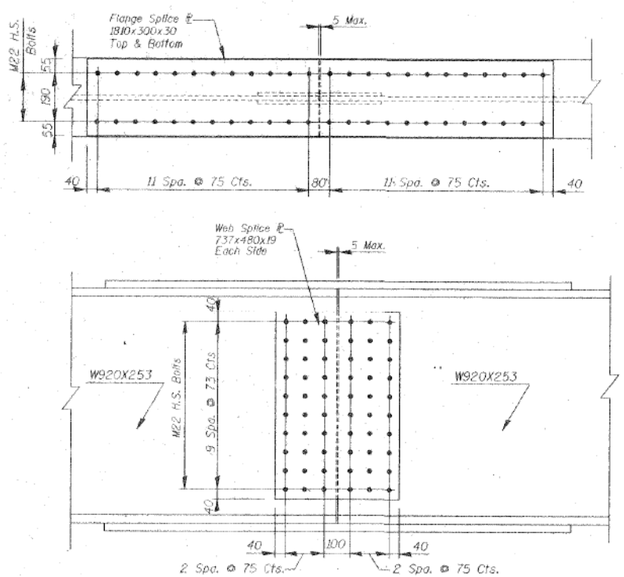
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	42
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

S-21 of 49



DETAIL SPLICE NO. 1



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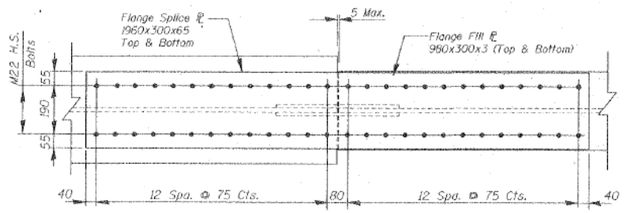

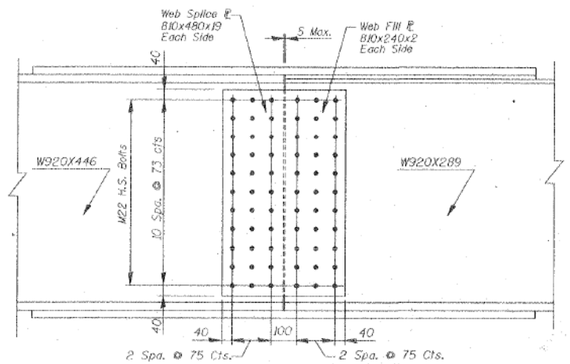

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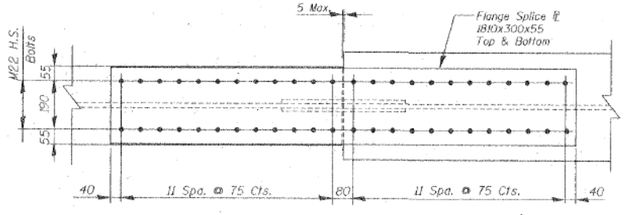

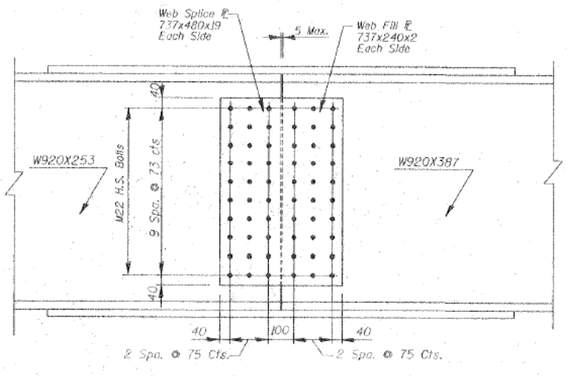

DETAIL SPLICE NO. 5 & 6

NOTES:

1. All dimensions are in millimeters (mm), except as noted.
2. All material on this sheet except the fill plates shall be NTR
3. All material on this sheet, except Fill Plates shall be M270M Grade 345

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE AND RAMP "A"
SPLICE DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.G.

6/15/09 PM
D1623J1 SHT-AS-BUILT-21

TranSystems

USER NAME = wjcolletti	DESIGNED	EH	REVISED
	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

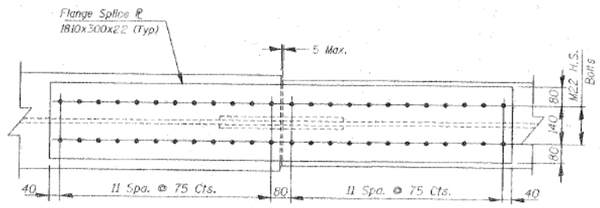
SHEET NO. AB-21 OF AB-65 SHEETS

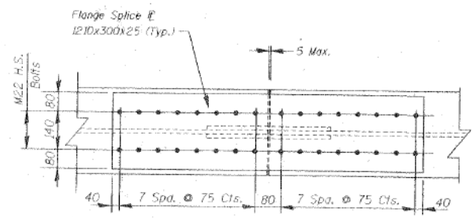
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	248
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

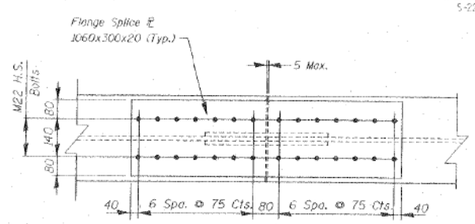
FOR INFORMATION ONLY

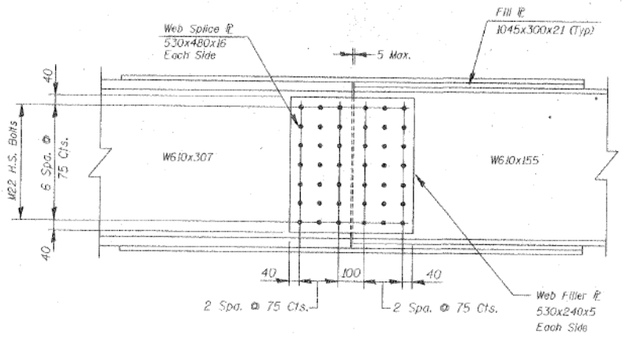
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	43
STA. 1+350.230 TO STA.				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

5-22 of 49

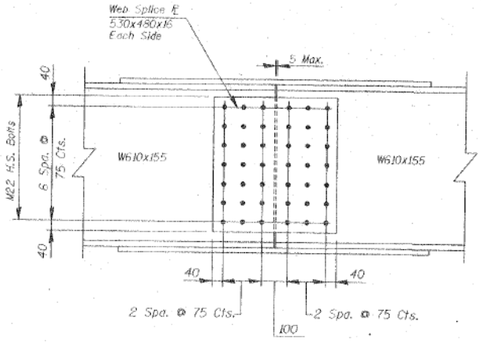




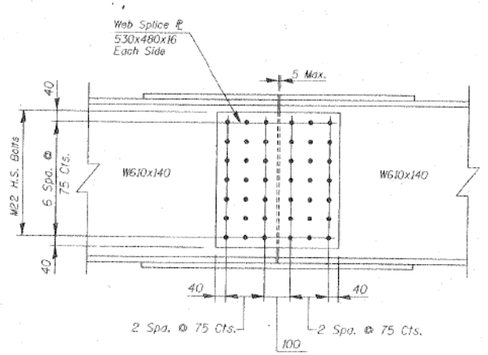




DETAIL SPLICE NO.9



DETAIL SPLICE NO. 10



DETAIL SPLICE NO. 11 & 12

NOTES:

1. All dimensions are in millimeters (mm), except as noted.
2. All material on this sheet except the fill plates shall be NTR
3. All material on this sheet, except Fill Plates shall be M270M Grade 345

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago. IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE AND RAMP "A"
SPLICE DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

6145.33 PW
0102J31.SHT-AS-BUILT-22

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-22 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	249
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	44
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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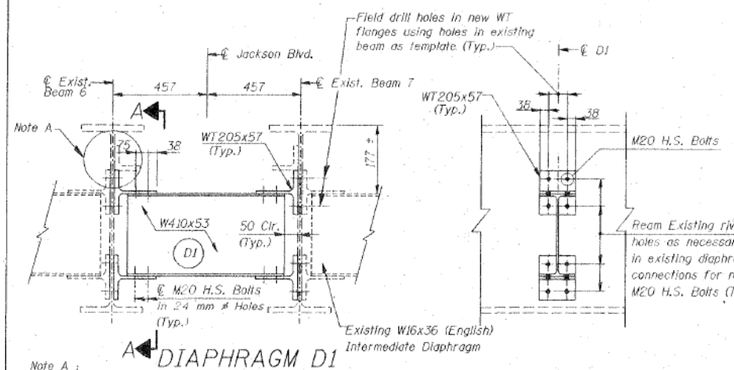
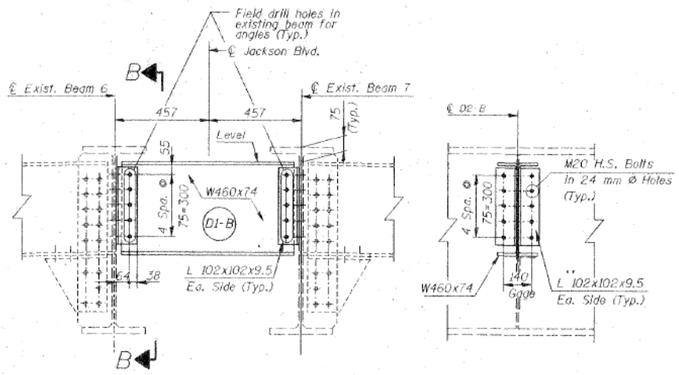


DIAPHRAGM D1

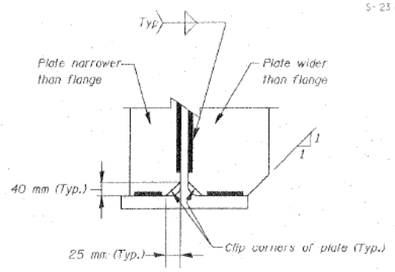
Note A :
Between Existing Interior Beams #6 & #7 the continuous welded 6"x4"x$\frac{3}{8}$" (English) angles attached to each beam shall be removed to allow connections for new D1 Type Diaphragms. Cost included in "Structural Steel Removal"

SECTION A-A



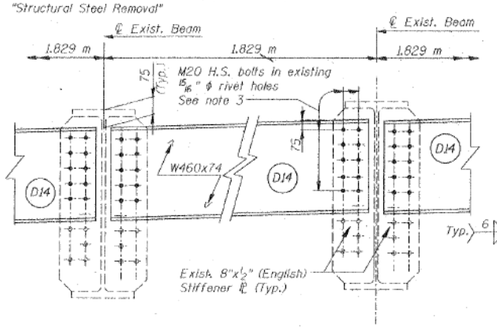
DIAPHRAGM D1-B

SECTION B-B

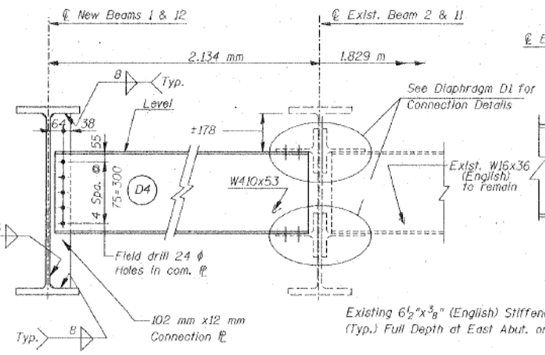


Note:
Weld detail applies at bottom flange at mill to bear end of all supports. The length of fillet welds at all other locations are full width of stiffener minus the horizontal clipped corner.

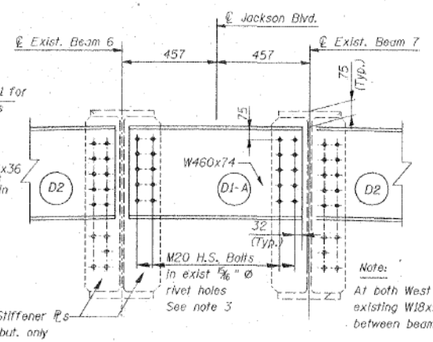
CONNECTION PLATE DETAIL



DIAPHRAGM D14

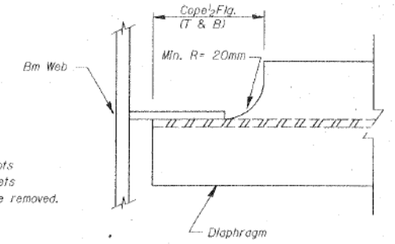


DIAPHRAGM D4

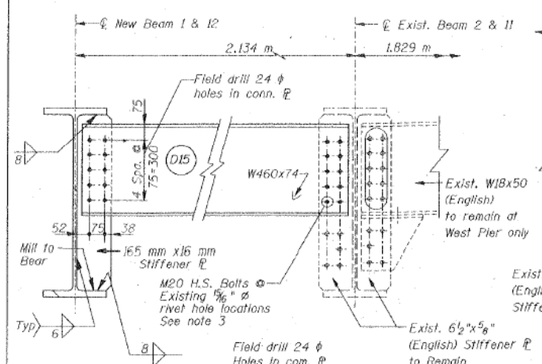


DIAPHRAGM D1-A

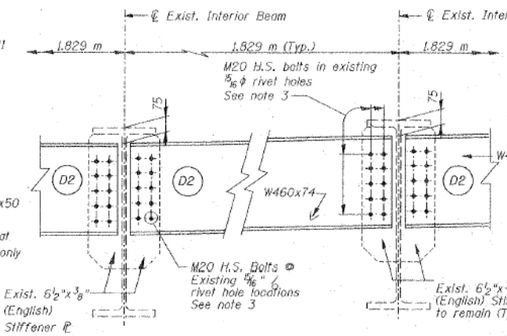
Note:
At both West and East Abutments existing W18x50 (English) brackets between beam #6 and #7 to be removed.



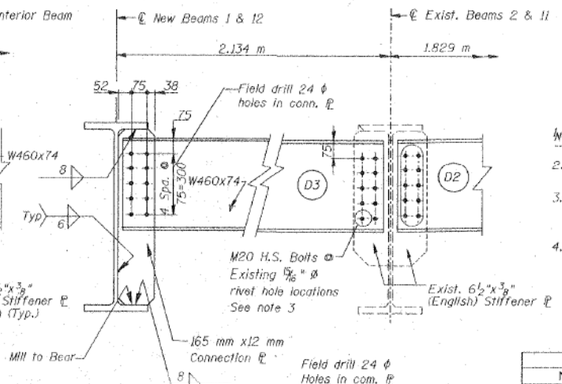
TYPICAL PLAN FLANGE COPE DETAIL



DIAPHRAGM D15



DIAPHRAGM D2



DIAPHRAGM D3

Notes:
1. All bolted connection to be M20 H.S. Bolts in 24 mm holes unless noted
2. Two hardened washers shall be required over all oversized holes.
3. Holes in Diaphragm to be drilled in the field to match existing holes. Ftel to verify existing holes as required.
4. Minimum distance between edge of new connection plates and ℄ of field drilled holes shall be 40 mm

3/01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
DIAPHRAGM CONNECTION DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/45/55 P.W.
D102J31.SHT-AS-BUILT-23

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

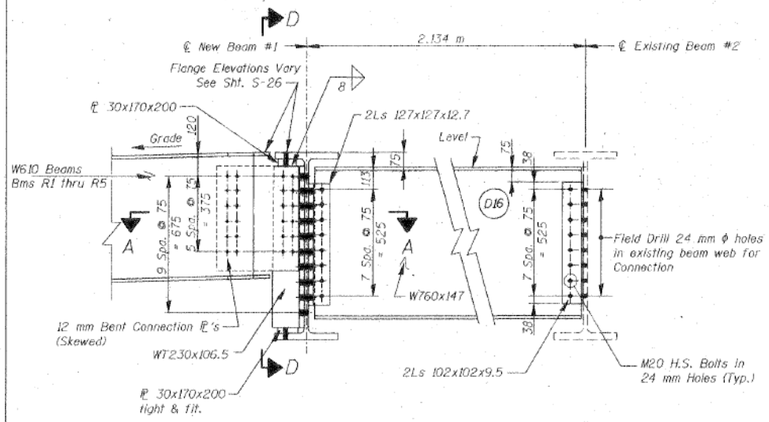
SHEET NO. AB-23 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	250
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

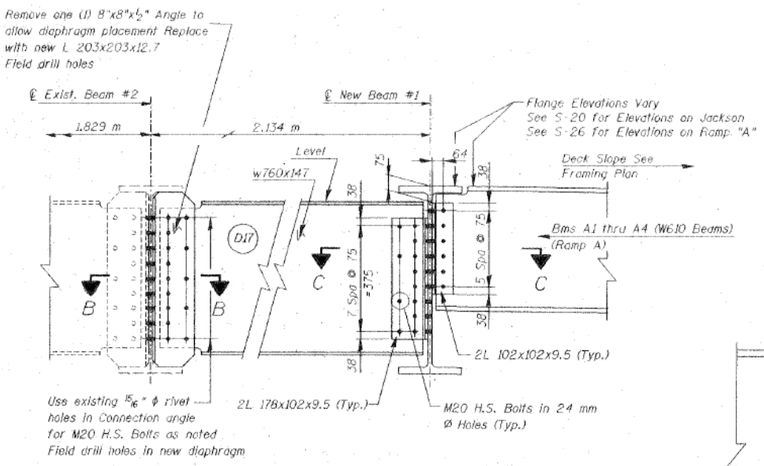
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	45
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

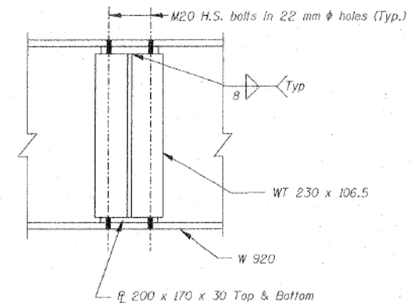
S-24 of 49



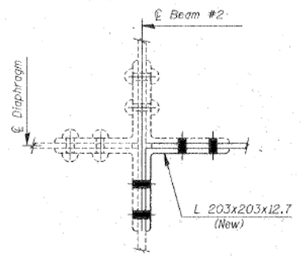
DIAPHRAGM D16



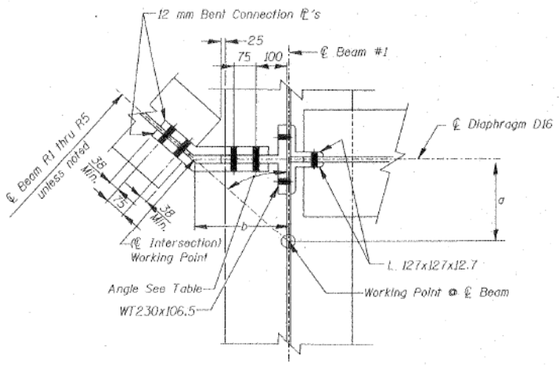
DIAPHRAGM D17



SECTION D-D

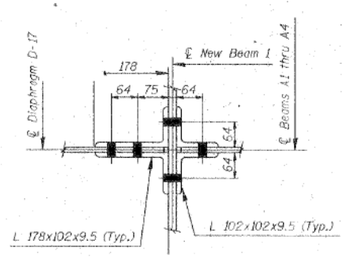


SECTION B-B



SECTION A-A

	Angle	a	b
R1 Thru R4	48°10'43"	267	298
R5	34°01'50"	437	295



SECTION C-C

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
BEAM CONNECTION DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/16/17 PM
D:\62J31\SHT-AS-BUILT-24

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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

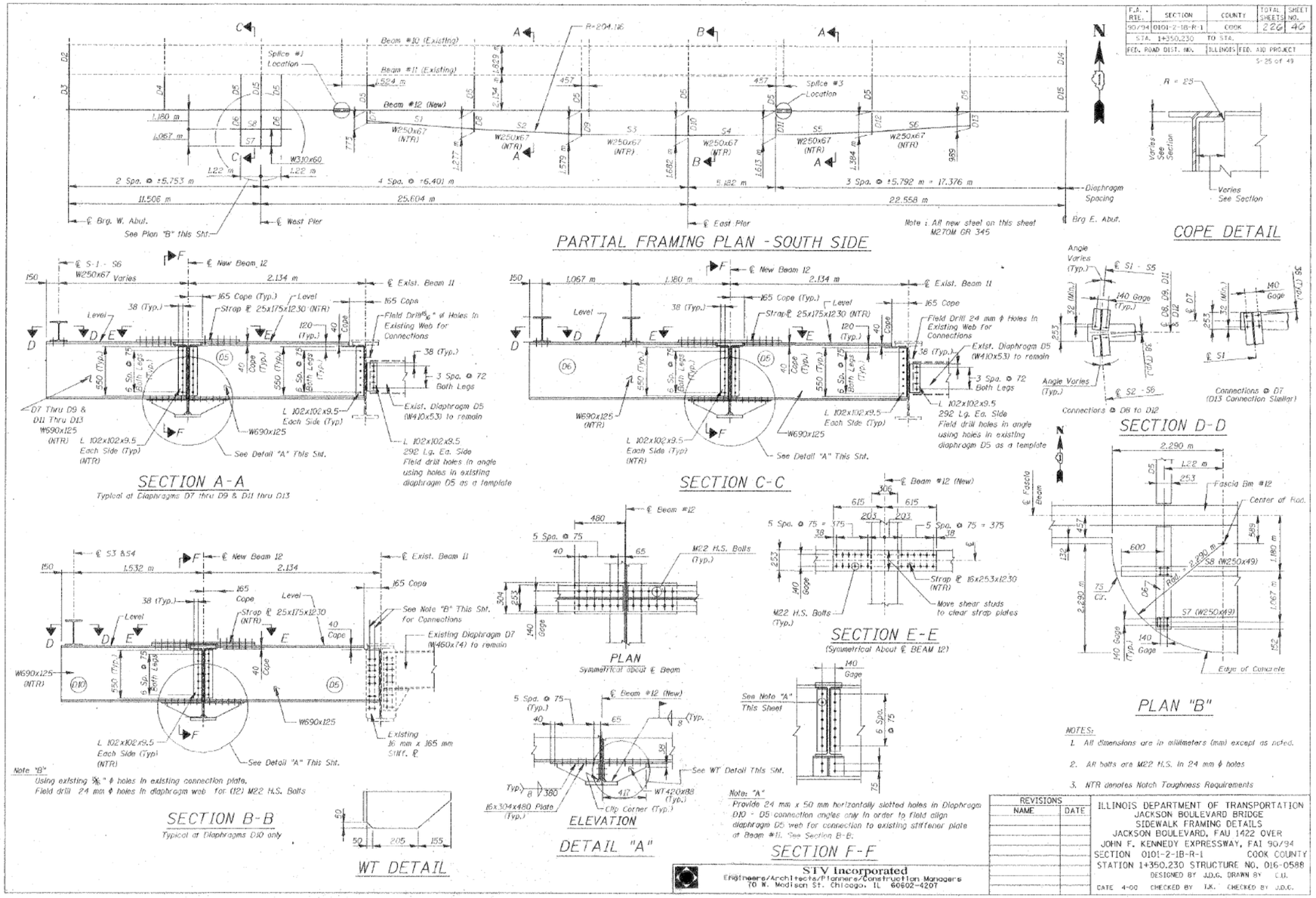
SHEET NO. AB-24 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	251
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	40
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-25 of 49



PARTIAL FRAMING PLAN - SOUTH SIDE

SECTION A-A

Typical at Diaphragms D7 thru D9 & D11 thru D13

SECTION C-C

Note "B"
Using existing ⅝" ϕ holes in existing connection plate.
Field drill 24 mm ϕ holes in diaphragm web for (12) M22 H.S. Bolts

SECTION B-B

Typical at Diaphragms D10 only

WT DETAIL

PLAN

Symmetrical about ℄ Beam

ELEVATION

DETAIL "A"

SECTION E-E

(Symmetrical About ℄ BEAM 12)

Note "A"
Provide 24 mm x 50 mm horizontally slotted holes in Diaphragm D10 - D5 connection angles only in order to field align diaphragm D5 web for connection to existing stiffener plate at Beam #11. See Section B-B.

SECTION F-F

COPE DETAIL

SECTION D-D

PLAN "B"

NOTES:
1. All dimensions are in millimeters (mm) except as noted.
2. All bolts are M22 H.S. in 24 mm ϕ holes
3. NTR denotes Notch Toughness Requirements

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
SIDEWALK FRAMING DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 14+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6:46:39 PM
01/02/31 SHT-AS-BUILT-25

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USER NAME = wjcolletti	DESIGNED EH	REVISED	
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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

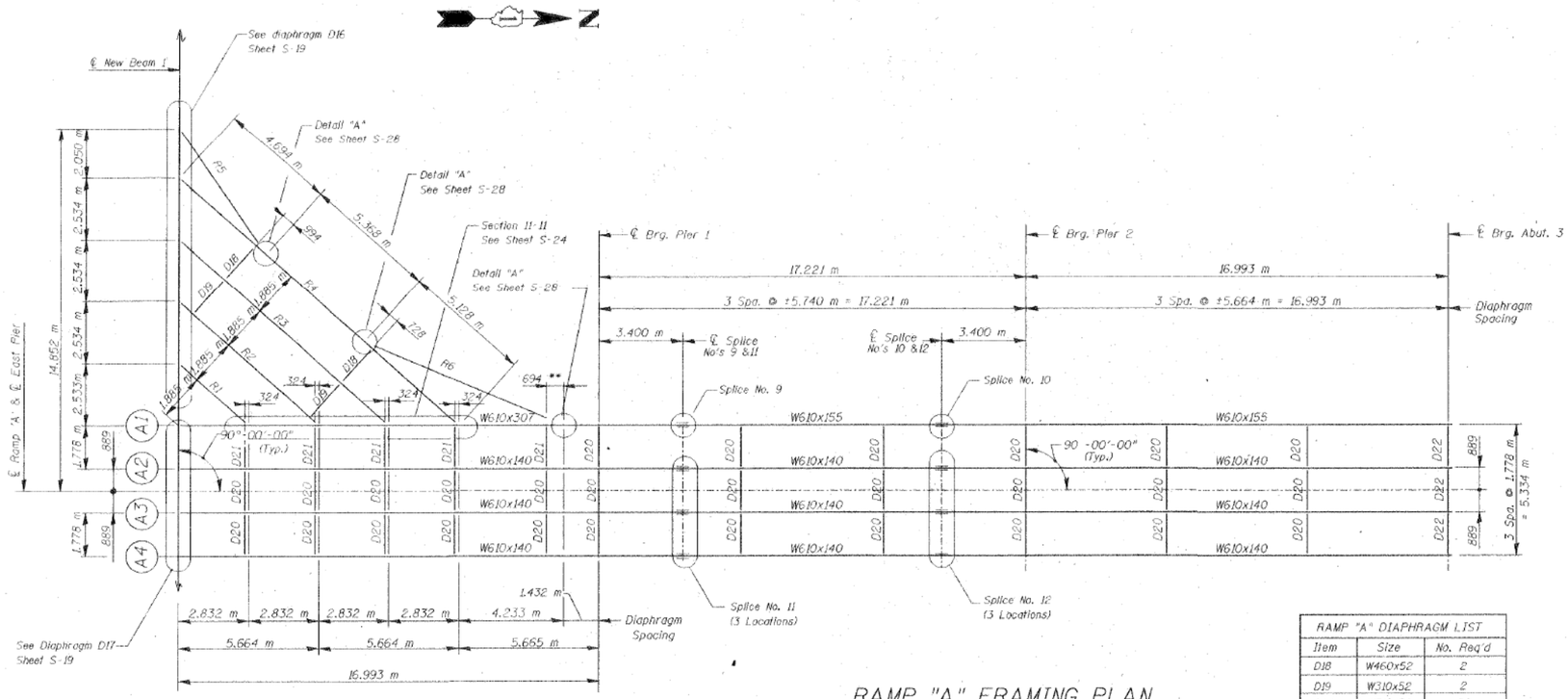
SHEET NO. AB-25 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	252
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	47
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-26 of 49



** Dimensions from centerline of diaphragm to theoretical work point. Typical for radius improvement framing.

RAMP "A" FRAMING PLAN

All W610 beams shall be M270M Grade 345

RAMP "A" DIAPHRAGM LIST		
Item	Size	No. Req'd
D18	W460x52	2
D19	W310x52	2
D20	W310x52	28
D21	W460x52	5
D22	W250x49	3

RAMP "A" TOP OF BEAM ELEVATIONS	
LOCATION	ELEVATION
A1 - Beam 1	181.531
A1 - Pier 1	181.005
A1 - Splice 9	180.893
A1 - Splice 10	180.350
A1 - Pier 2	180.182
A1 - Abutment	179.308
A2 - Beam 1	181.495
A2 - Pier 1	180.969
A2 - Splice 11	180.865
A2 - Splice 12	180.324
A2 - Pier 2	180.166
A2 - Abutment	179.292
A3 - Beam 1	181.477
A3 - Pier 1	180.951
A3 - Splice 11	180.847
A3 - Splice 12	180.324
A3 - Pier 2	180.148
A3 - Abutment	179.274
A4 - Beam 1	181.459
A4 - Pier 1	180.933
A4 - Splice 11	180.829
A4 - Splice 12	180.306
A4 - Pier 2	180.130
A4 - Abutment	179.256
R1 - Beam 1	181.575
R1 - A1	181.443
R2 Beam 1	181.588
R2 - A1	181.356
R3 Beam 1	181.588
R3 - A1	181.268
R4 - Beam 1	181.588
R4 - A1	181.180
R5 Beam 1	181.588
R5 - R4	181.462
R6 - R4	181.318
R6 - A1	181.049

NOTES:
1. All dimensions are in millimeters (mm) unless otherwise noted.
2. See sheet S28 for beam connection details and sheet S27 for diaphragm connection details.
3. Top of beam elevations are given for fabrication only and do not include thicknesses of splice plates.

3/01

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A" FRAMING
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

6/4/2003 PM
D162031 SHT-AS-BUILT-26

TranSystems

USER NAME = wjcoletti	DESIGNED	EH	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

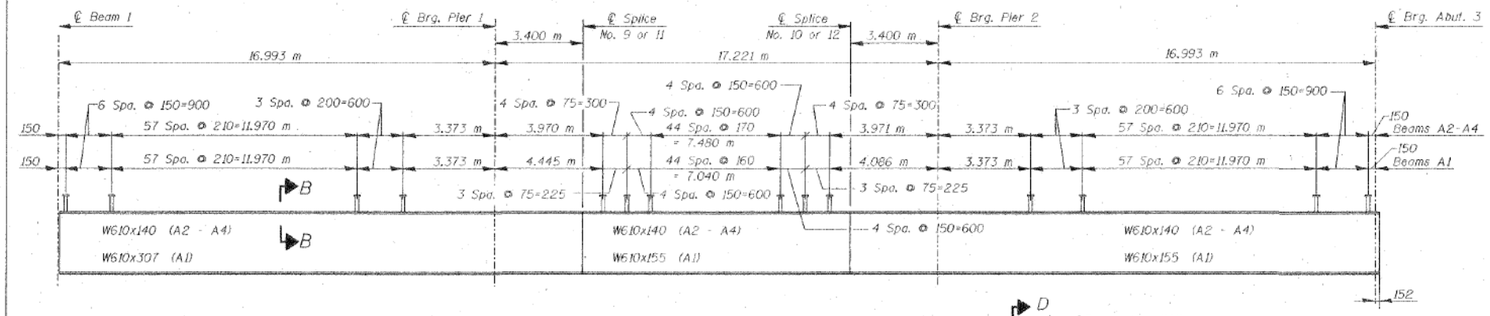
SHEET NO. AB-26 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	253
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

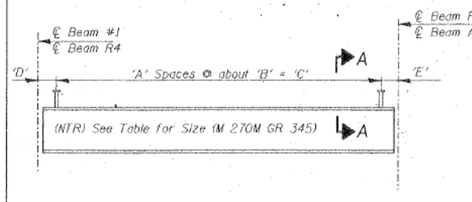
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	48
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-27 of 49

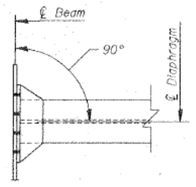


ELEVATION: BEAMS A1 THROUGH A4

M 270 M GR 345 (NTR)



ELEVATION BEAMS R1 THROUGH R6



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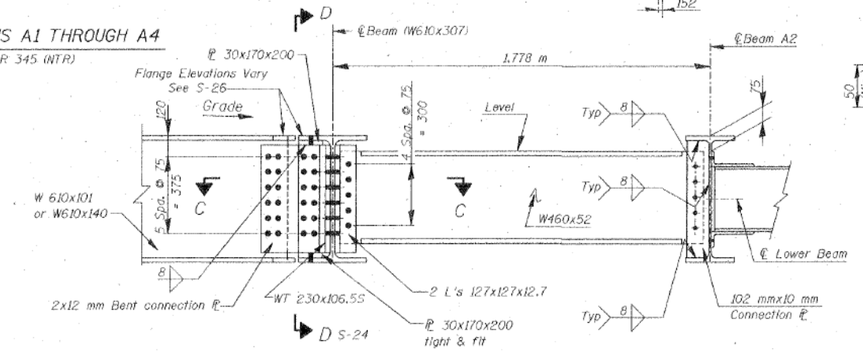
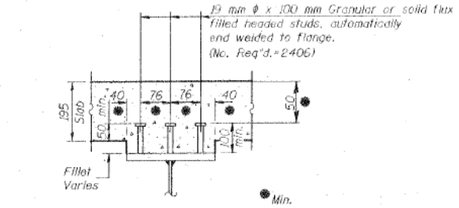


DIAPHRAGM D21



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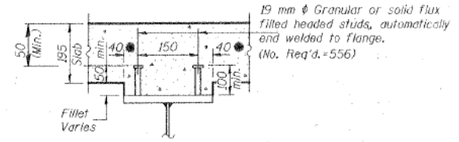
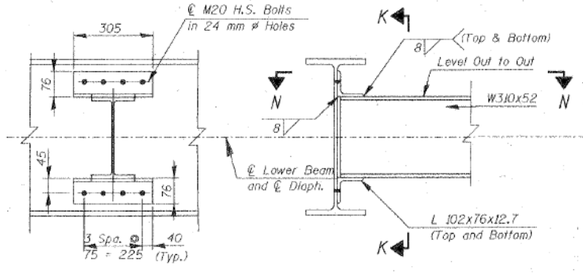


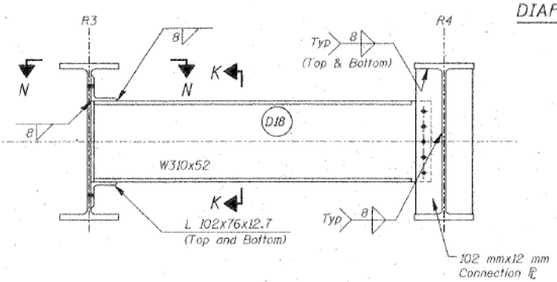
Beams R1 Thru R6

SECTION A-A



SECTION K-K

DIAPHRAGM D19 & 20



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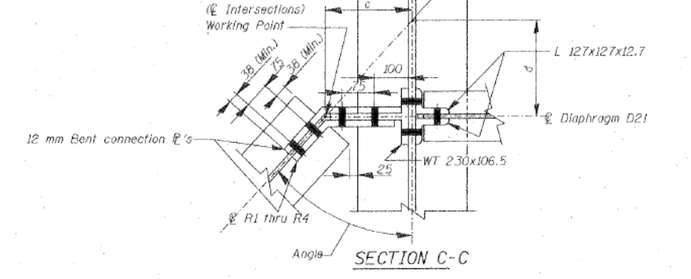
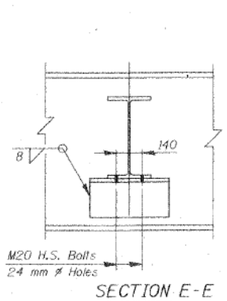
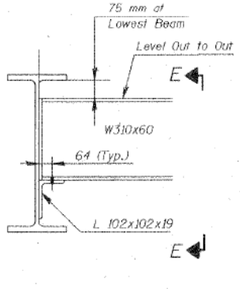


SECTION C-C

	Angle	c	d
R1 thru R4	41°49'17"	295	324



SECTION E-E



DIAPHRAGM D22

BEAMS R1 -R6 SIZE & SHEAR STUD SPACING

Beam	Size	'A'	'B'	'C'	'D'	'E'	C'
R1	W610x101	19	150	2.850m	477	471	2.85
R2	W610x101	90	75	~~2.850m~~	392	454	6.75
R3	W610x101	48	220	~~2.850m~~	387	454	10.56
R4	W610x140	95	150	~~2.850m~~	437	504	14.25
R5	W610x101	8	560	~~2.850m~~	629	1.14m	4.48
R6	W610x101	12	560	6.720m	402.7	1.013m	6.72

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
BEAM ELEVATIONS & DIAPHRAGM DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6:47:25 PM
016231 SHT-AS-BUILT-27

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

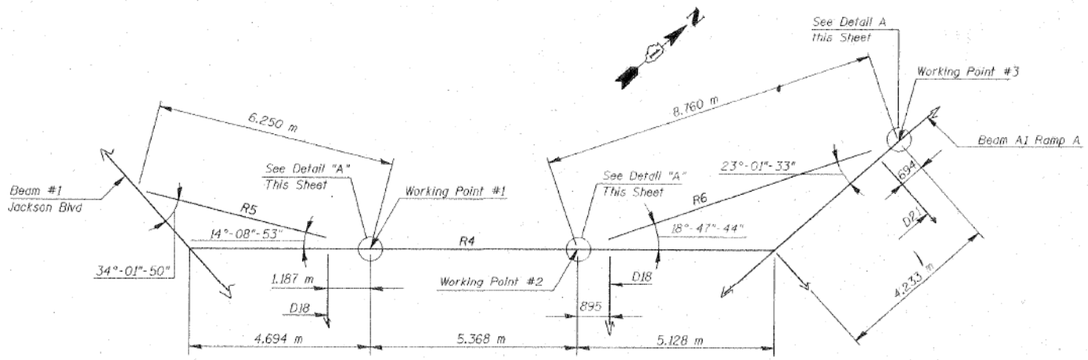
SHEET NO. AB-27 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	254
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

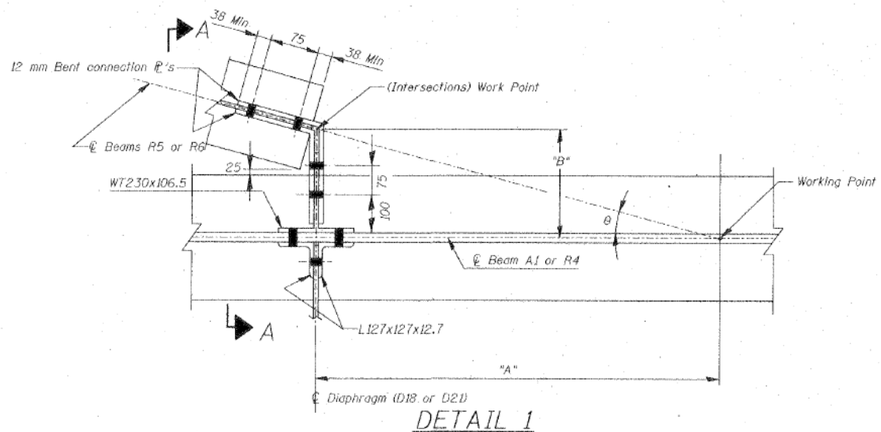
FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	49
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-28 of 49

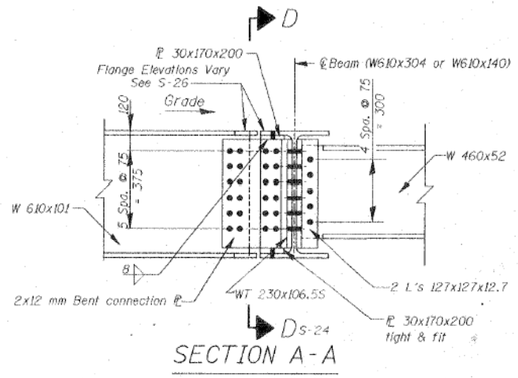


FASCIA BEAM FRAMING AT RAMP "A" WIDENING



DETAIL 1

Angle θ	"A"	"B"
14°-08'-53"	1187 mm	300 mm
18°-47'-44"	895 mm	305 mm
23°-01'-33"	694 mm	295 mm



SECTION A-A

3/01

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
BEAM CONNECTION DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0585
DESIGNED BY J.D.C. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.C.

6:47:49 PM
016231 SMT-AS-BUILT-28

TranSystems

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-28 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	255
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	50
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-29 of 49

BEAM 1 MOMENT TABLE

		0.1 Sp. 1	West Pier	0.5 Sp. 2	East Pier	0.68 Sp.
Is	(10^6 mm⁴)	5040	5040	5040	8470	5040
Ic (n)	(10^6 mm⁴)	11124		11124		11124
Ic (3n)	(10^6 mm⁴)	7985		7985		7985
Ss	(10^3 mm³)	10900	10900	10900	18200	10900
Sc (n)	(10^3 mm³)	15015		15015		15015
Sc (3n)	(10^3 mm³)	13340		13340		13340
Z	(10^3 mm³)					
$\mathcal{D}$	(kN/m)	7.57	7.57	23.52	14.6	1020
$M\mathcal{D}$	(kN·m)	192	860	857	1193	261
$s\mathcal{D}$	(kN/m)			7.46		4.57
$Ms\mathcal{D}$	(kN·m)			272		157
M_L	(kN·m)	122	710	860	543	659
M (Imp)	(kN·m)	37	213	369	163	244
$\frac{5}{3}[M_L+M(Imp)]$	(kN·m)	159	923	2048	1180	1504
Ma	(kN·m)	457	2305	4130	3085	2499
Mu	(kN·m)	5180		5180		5180
$fs\mathcal{D}$ non-comp	(MPa)	18	78	79	53	24
$fs\mathcal{D}$ (comp)	(MPa)			17		10
$fs\frac{5}{3}(L+Imp)$	(MPa)	15	85	118	52	87
fs (Overload)	(MPa)	33	163	214	105	121
fs (Total)	(MPa)		212		137	
VR	(kN)	231		179		174

BEAM 1 REACTION TABLE

		West Abut.	West Pier	East Pier	East Abut.
$R\mathcal{D}$	(kN)	116	474	946	116
RL	(kN)	146	172	257	170
Imp.	(kN)	44	52	77	51
R (Total)	(kN)	306	698	1280	337

BEAMS 2 AND 11 MOMENT TABLE

		0.4 Sp. 1	West Pier	0.5 Sp. 2	East Pier	0.6 Sp. 3
Is	(10^6 mm⁴)	4369	4369	4369	7112	4369
Ic (n)	(10^6 mm⁴)	10752		10752		10752
Ic (3n)	(10^6 mm⁴)	7778		7778		7778
Ss	(10^3 mm³)	9510	9510	9510	14835	9510
Sc (n)	(10^3 mm³)	13152		13152		13152
Sc (3n)	(10^3 mm³)	12184		12184		12184
Z	(10^3 mm³)					
$\mathcal{D}$	(kN/m)	13.5	13.5	13.5	14.45	13.5
$M\mathcal{D}$	(kN·m)	40	516	373	944	448
$s\mathcal{D}$	(kN/m)	4.57		4.57		4.57
$Ms\mathcal{D}$	(kN·m)	1.6		132		155
M_L	(kN·m)	303	523	626	466	718
M (Imp)	(kN·m)	91	141	150	114	180
$\frac{5}{3}[M_L+M(Imp)]$	(kN·m)	658	1107	1295	966	1492
Ma	(kN·m)	909		2340		2730
Mu	(kN·m)	3551		3551		3551
$fs\mathcal{D}$ non-comp	(MPa)	4.2	54	39	64	47
$fs\mathcal{D}$ (comp)	(MPa)	0.14		11.3		13.2
$fs\frac{5}{3}(L+Imp)$	(MPa)	50	84	110	50	128
fs (Overload)	(MPa)	74	138	189	114	221
fs (Total)	(MPa)		179		148	
VR	(kN)	151		173		169

BEAMS 2 AND 11 REACTION TABLE

		West Abut.	West Pier	East Pier	East Abut.
$R\mathcal{D}$	(kN)	102	377	517	148
RL	(kN)	142	167	171	165
Imp.	(kN)	43	50	51	50
R (Total)	(kN)	287	594	739	363

BEAMS 6 AND 7 MOMENT TABLE

		0.4 Sp. 1	West Pier	0.5 Sp. 2	East Pier	0.6 Sp. 3
Is	(10^6 mm⁴)	4369	4369	4369	6598	5035
Ic (n)	(10^6 mm⁴)	9755		9755		10746
Ic (3n)	(10^6 mm⁴)	7010		7010		7749
Ss	(10^3 mm³)	9510	9510	9510	13897	10864
Sc (n)	(10^3 mm³)	13152		13152		14798
Sc (3n)	(10^3 mm³)	11710		11710		13152
Z	(10^3 mm³)					
$\mathcal{D}$	(kN/m)	9.98	9.98	9.98	10.87	10.33
$M\mathcal{D}$	(kN·m)	25	390	285	6.8	358
$s\mathcal{D}$	(kN/m)	4.57		4.57		4.57
$Ms\mathcal{D}$	(kN·m)	0.5		135		156
M_L	(kN·m)	194	334	400	278	467
M (Imp)	(kN·m)	58	90	96	68	117
$\frac{5}{3}[M_L+M(Imp)]$	(kN·m)	420	707	827	577	973
Ma	(kN·m)	579		1621		1936
Mu	(kN·m)	3551		3551		3551
$fs\mathcal{D}$ non-comp	(MPa)	2.6	41	30	49	33
$fs\mathcal{D}$ (comp)	(MPa)	0		11.5		12
$fs\frac{5}{3}(L+Imp)$	(MPa)	32	54	63	32	66
fs (Overload)	(MPa)	47	95	131	81	137
fs (Total)	(MPa)		124		105	
VR	(kN)	104		120		117

BEAMS 6 AND 7 REACTION TABLE

		West Abut.	West Pier	East Pier	East Abut.
$R\mathcal{D}$	(kN)	75	307	418	124
RL	(kN)	98	116	118	114
Imp.	(kN)	29	35	35	34
R (Total)	(kN)	202	458	571	272

BEAMS 3, 4, 5, 8, 9, & 10 MOMENT TABLE

		0.4 Sp. 1	West Pier	0.5 Sp. 2	East Pier	0.6 Sp. 3
Is	(10^6 mm⁴)	4369	4369	4369	6598	5035
Ic (n)	(10^6 mm⁴)	10012		10012		11165
Ic (3n)	(10^6 mm⁴)	7319		7319		8137
Ss	(10^3 mm³)	9510	9510	9510	13897	10864
Sc (n)	(10^3 mm³)	13064		13064		14799
Sc (3n)	(10^3 mm³)	11783		11783		13302
Z	(10^3 mm³)					
$\mathcal{D}$	(kN/m)	12.11	17.29	12.11	18.18	12.46
$M\mathcal{D}$	(kN·m)	37	631	350	822	427
$s\mathcal{D}$	(kN/m)	5.18		5.18		5.18
$Ms\mathcal{D}$	(kN·m)	20		182		192
M_L	(kN·m)	260	446	533	331	623
M (Imp)	(kN·m)	78	120	128	81	136
$\frac{5}{3}[M_L+M(Imp)]$	(kN·m)	563	943	1102	687	1298
Ma	(kN·m)	806		2124		2493
Mu	(kN·m)	3527		3527		3527
$fs\mathcal{D}$ non-comp	(MPa)	4	66	37	59	40
$fs\mathcal{D}$ (comp)	(MPa)	2		15		14
$fs\frac{5}{3}(L+Imp)$	(MPa)	43	99	84	44	88
fs (Overload)	(MPa)	49	165	136	158	146
fs (Total)	(MPa)		215		140	
VR	(kN)	140		160		157

BEAMS 3, 4, 5, 8, 9, & 10 REACTION TABLE

		West Abut.	West Pier	East Pier	East Abut.
$R\mathcal{D}$	(kN)	45	355	497	148
RL	(kN)	178	253	251	208
Imp.	(kN)	53	68	62	62
R (Total)	(kN)	276	676	810	418

BEAM 12 MOMENT TABLE

		0.19 Sp.	West Pier	0.5 Sp.2	East Pier	0.6 Sp.3
Is	(10^6 mm⁴)	4370	4370	4370	7180	4370
Ic (n)	(10^6 mm⁴)	10009		10009		10009
Ic (3n)	(10^6 mm⁴)	7189		7189		7189
Ss	(10^3 mm³)	9510	9510	9510	15600	9510
Sc (n)	(10^3 mm³)	13275		13275		13275
Sc (3n)	(10^3 mm³)	11833		11833		11833
Z	(10^3 mm³)					
$\mathcal{D}$	(kN/m)	23.52	22.32	15.27	23.54	14.33
$M\mathcal{D}$	(kN·m)	53	699	533	1290	486
$s\mathcal{D}$	(kN/m)	6.70		5.65		5.19
$Ms\mathcal{D}$	(kN·m)	15		114		176
M_L	(kN·m)	93	483	588	425	673
M (Imp)	(kN·m)	215	178	186	141	224
$\frac{5}{3}[M_L+M(Imp)]$	(kN·m)	513	1102	1290	943	1495
Ma	(kN·m)	581	2341	2583	2903	2804
Mu	(kN·m)	4580		4580		4580
$fs\mathcal{D}$ non-comp	(MPa)	6	13	56	85	51
$fs\mathcal{D}$ (comp)	(MPa)	1		14		15
$fs\frac{5}{3}(L+Imp)$	(MPa)	0	116	60	62	116
fs (Overload)	(MPa)	47	189	130	147	182
fs (Total)	(MPa)		246		191	
VR	(kN)	156		174		174

BEAM 12 REACTION TABLE

		West Abut.	West Pier	East Pier	East Abut.
$R\mathcal{D}$	(kN)	76	364	588	147
RL	(kN)	146	172	176	170
Imp.	(kN)	44	52	53	51
R (Total)	(kN)	266	588	787	368

BEAM REACTION *TABLE FOR JACKING

	West Abut.	East Abut.	West Pier	East Pier
AT EACH INTERIOR BEAM	26 kN (40 kN)	50 kN (75 kN)	90 kN (134 kN)	120 kN (180 kN)

*Includes Steel Beams, Diaphragms and 75 mm Oak Shielding

( )= Minimum jack capacity

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

$Ic_{(n)}$ and $Sc_{(n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

$Ic_{(3n)}$ and $Sc_{(3n)}$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

Ma (Applied Moment)=$1.3(M\mathcal{D} + Ms\mathcal{D} + \frac{5}{3}(M_L + M_{Imp}))$.

The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1 and 10.50.1.1.

fs (Overload) is the sum of the stresses due to $M\mathcal{D} + Ms\mathcal{D} + \frac{5}{3}(M_L + M_{Imp})$.

fs (Total) (Non-compact section) is the sum of the stresses due to $1.3(M\mathcal{D} + Ms\mathcal{D} + \frac{5}{3}(M_L + M_{Imp}))$.

Note: All dimensions are in millimeters (mm) except as noted.

3/11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JACKSON BOULEVARD BRIDGE
MOMENT AND REACTION TABLES
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/6/11 PM
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	CHECKED WJC		REVISED
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PLOT DATE = 8/13/2019	CHECKED WJC		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-29 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	256
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	51
	STA. 1+350.230	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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INTERIOR AND EAST EXTERIOR BEAM MOMENT TABLE (BEAMS A2 - A4)

		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
Is	(10^6 mm^4)	1123	1123	1123	1123	1123
Ic (n)	(10^6 mm^4)	3520		3520		3520
Ic (sn)	(10^6 mm^4)	2560		2560		2560
Ss	(10^3 mm^3)	3632	3632	3632	3632	3632
Sc (n)	(10^3 mm^3)	5819		5819		5819
Sc (sn)	(10^3 mm^3)	5214		5214		5214
Z	(10^3 mm^3)					
w_D	(kN/m)	10.11	15.98	10.11	15.98	10.11
M_D	(kN·m)	233	446	80	432	233
s_D	(kN/m)	5.87		5.87		5.87
M_{SD}	(kN·m)	149		80		149
M_L	(kN·m)	325	235	267	235	325
M (Imp)	(kN·m)	90	66	73	66	90
$S_3[M_L+M(Imp)]$	(kN·m)	692	503	567	503	692
M_D	(kN·m)	1341	1210	945	1216	1396
M_U	(kN·m)	2008		2008		2008
f_{sD} non-comp	(MPa)	64	119	22	119	64
f_{sD} (comp)	(MPa)	29		15		29
$f_{s3}(L+Imp)$	(MPa)	119	139	97	139	119
f_s (Overload)	(MPa)	207	258	134	258	207
f_s (Total)	(MPa)		335		335	
VR	(kN)	160	188	109	176	110

INT. & EAST EXT. BEAM REACTION TABLE (BEAMS A2-A4)

		At Beam 1	Pier 1	Pier 2	Abut.
R_D	(kN)	69	191	131	69
R_{SD}	(kN)	42	108	108	42
R_L	(kN)	199	241	241	199
Imp.	(kN)	55	66	66	55
R (Total)	(kN)	365	606	606	365

RADIUS BEAMS MOMENT TABLE (BEAMS R1-R6) - COMPOSITE THROUGHOUT

		R1	R2	R3	R4	R5	R6
Is	(10^6 mm^4)	764	764	764	1120	764	764
Ic (n)	(10^6 mm^4)	2662	2662	2662	3386	2662	2662
Ic (sn)	(10^6 mm^4)	2002	2002	2002	2434	2002	2002
Ss	(10^3 mm^3)	2530	2530	2530	3630	2530	2530
Sc (n)	(10^3 mm^3)	4264	4264	4264	5719	4264	4264
Sc (sn)	(10^3 mm^3)	3848	3848	3848	5100	3848	3848
Z	(10^3 mm^3)						
w_D	(kN/m)	3.21	3.21	3.21	3.21	8.91	8.91
M_D	(kN·m)	18	73	169	377	41	81
s_D	(kN/m)	9.03	9.09	9.41	11.69	2.77	2.77
M_{SD}	(kN·m)	6	23	52	93	13	26
M_L	(kN·m)	82	150	240	462	80	170
M (Imp)	(kN·m)	25	45	72	139	24	51
$S_3[M_L+M(Imp)]$	(kN·m)	177	326	521	1004	174	369
M_D	(kN·m)	262	549	965	1917	297	619
M_U	(kN·m)	1471	1471	1471	1973	1471	1471
f_{sD} non-comp	(MPa)	7	29	67	94	10	20
f_{sD} (comp)	(MPa)	2	6	14	18	3	6
$f_{s3}(L+Imp)$	(MPa)	44	76	122	176	30	65
f_s (Overload)	(MPa)	53	111	203	288	43	91
f_s (Total)	(MPa)						
VR	(kN)	82	130	211	211		

RADIUS BEAM REACTION TABLE (BEAMS R1-R5)

		R1	R2	R3	R4	R5	R6
R_D	(kN)	19	38	59	99	27	38
R_{SD}	(kN)	6	12	18	25	9	12
R_L	(kN)	118	149	191	215	93	107
Imp.	(kN)	35	45	57	64	28	32
R (Total)	(kN)	178	244	325	403	157	190

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic(sn) and Sc(sn) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

VR is the maximum Live Load + Impact shear range in span.

Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

Mu (Applied Moment)=1.3(MD + MSD + S3(ML + Mimp)).

The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1 and 10.50.1.1.

fs (Overload) is the sum of the stresses due to MD + MSD + S3(ML + Mimp).

fs (Total) (Non-compact section) is the sum of the stresses due to 1.3(MD + MSD + S3(ML + Mimp)).

Note: All dimensions are in millimeters (mm) except as noted.

WEST EXTERIOR BEAM MOMENT TALBLE (BEAM A1)

		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
Is	(10^6 mm^4)	2840	2840	1290	1290	1290
Ic (n)	(10^6 mm^4)	6723		3737		3737
Ic (sn)	(10^6 mm^4)	4779		2691		2691
Ss	(10^3 mm^3)	6700	8700	4220	4220	4220
Sc (n)	(10^3 mm^3)	12,432		6427		6427
Sc (sn)	(10^3 mm^3)	10,944		5766		5766
Z	(10^3 mm^3)					
w_D	(kN/m)	5.98	12.80	9.12	12.80	9.12
M_D	(kN·m)	505	650	31	379	302
s_D	(kN/m)	2.14		3.68		3.68
M_{SD}	(kN·m)	118		37		95
M_L	(kN·m)	595	254	246	231	323
M (Imp)	(kN·m)	167	71	69	65	91
$S_3[M_L+M(Imp)]$	(kN·m)	1273	543	526	495	692
M_D	(kN·m)	2465	1551	773	1137	1416
M_U	(kN·m)	3002		1456		1456
f_{sD} non-comp	(MPa)	58	75	7	90	71
f_{sD} (comp)	(MPa)	10		6		15
$f_{s3}(L+Imp)$	(MPa)	97	63	78	117	102
f_s (Overload)	(MPa)	165	136	91	207	188
f_s (Total)	(MPa)		180		270	
VR	(kN)	139		142		127

WEST EXTERIOR BEAM REACTION TABLE (BEAM A1)

		At Beam 1	Pier 1	Pier 2	Abut.
R_D	(kN)	126	340	239	96
R_{SD}	(kN)	26	82	67	25
R_L	(kN)	135	168	130	106
Imp.	(kN)	38	47	36	30
R (Total)	(kN)	325	637	472	257

3/01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
MOMENT AND REACTION TABLES
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	52
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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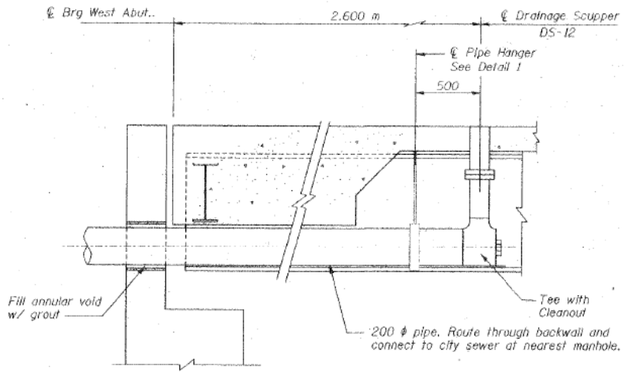
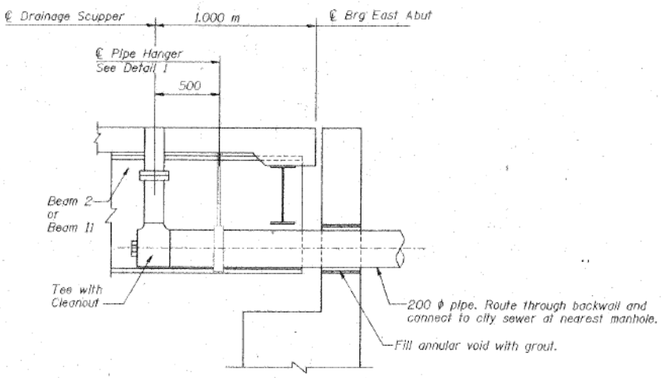
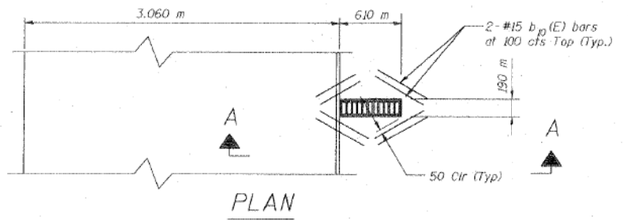


WEST ABUTMENT

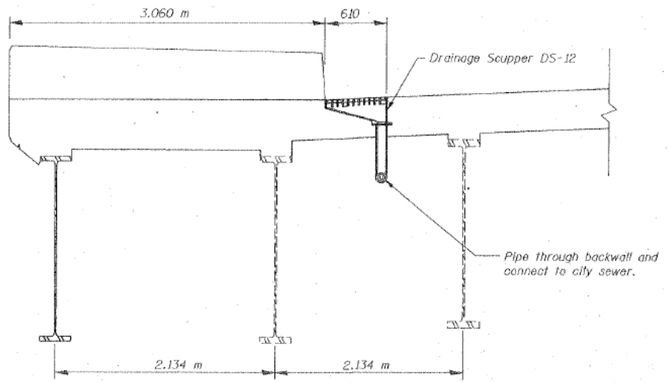


EAST ABUTMENT

SCUPPER DETAIL AT EAST & WEST ABUTMENT



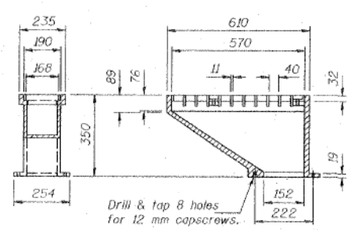
PLAN



SECTION A-A

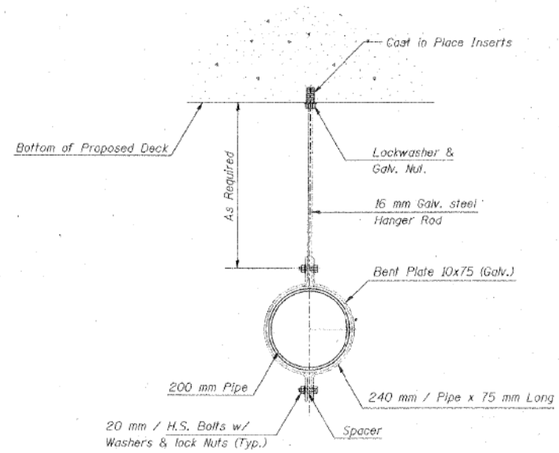
Note: Reinforcement bars designated (E) shall be epoxy coated.
Cut longitudinal reinforcement to clear drainage scupper.

Note:
See Special Provisions for Drainage System.



DRAINAGE SCUPPER DS-12

Notes:
Floor drains need not be painted.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 200 MPa minimum.
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
Bolts, nuts and washers shall conform to the requirements of ASTM A 307.
All bolts and washers shall be galvanized according to AASHTO M 232.
As an alternate, bolts and washers may be stainless steel conforming to the requirements of ASTM A 193M, Type 304.
Cost of the Grate, Frame, Downspout, bolts and washers including complete installation of the scupper will be paid for at the unit bid price each for Drainage Scuppers, (DS-12)
Structural steel weldments of equal sections may be substituted for cast iron. Details shall be submitted to the Engineer for approval.



DETAIL 1

Note:
1. The downspout connection may be threaded or a bolted flange, or other method approved by the Engineer.
2. All dimensions are in millimeters (mm) except as noted.

3/01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE DRAINAGE DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

TranSystems

USER NAME = wjcolletti	DESIGNED	EH	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-31 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	258
			CONTRACT NO. 62J31	
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P.			226	53
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

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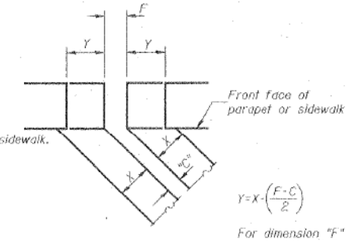
Joint Size	"C" at 10 °C	"D" at 10 °C
50	50	40 Min.
65	65	45 Min.
100	75	65 Min.

INSTALLATION NOTES

1. Install continuous seal in roadway, parapet, curb, and sidewalk.
2. Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 300 centers.

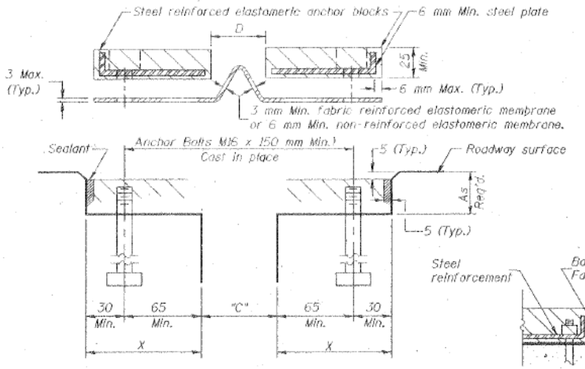


FORMING BLOCKOUT SKETCH

SKEW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews.

For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 40 mm from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±300 cts.



CROSS SECTION

ANCHOR BLOCK WITH ASPHALT SURFACE

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

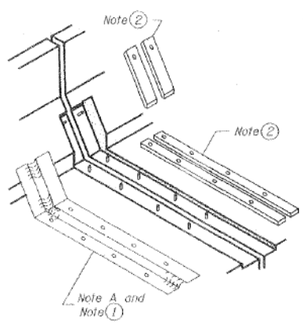
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

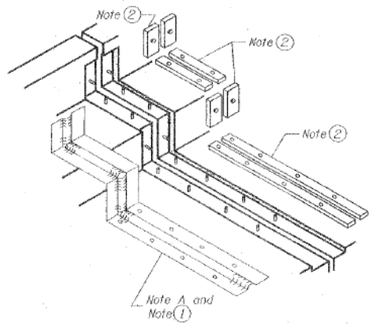
Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 10 °C.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

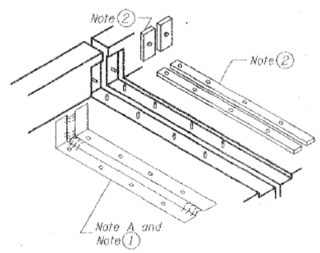
All dimensions are in millimeters (mm) except as noted.



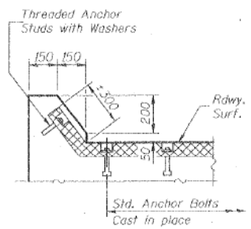
AT PARAPET



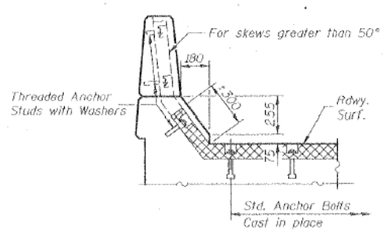
AT SIDEWALK OR MEDIAN



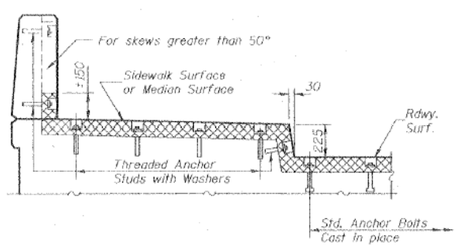
AT WALL



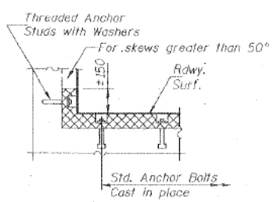
AT CURB



AT PARAPET



AT SIDEWALK OR MEDIAN
TYPICAL END TREATMENTS



AT WALL AND CURB

CONTINUOUS SEAL TYPE
NEOPRENE EXPANSION JOINTS
For 50, 65 and 100 Movement

JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588

EJ-CS (M) 4-30-97

6/19/19 PM
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	CHECKED WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-32 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	259
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	54
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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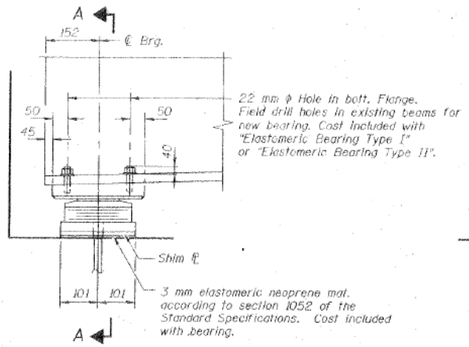
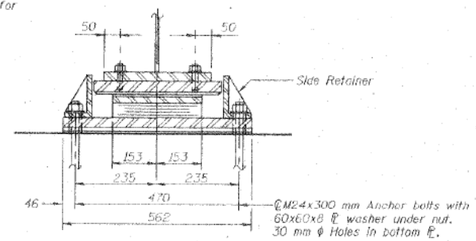


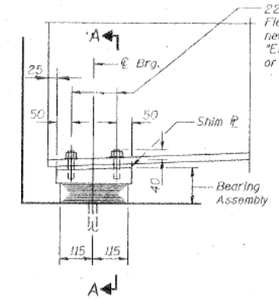
ELEVATION



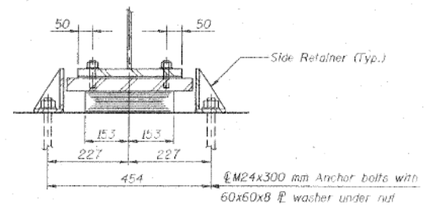
SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.
WEST ABUTMENT

Notes: See sheet # S37 for Anchor Bolt installation.
All dimensions are in millimeters (mm) except as noted.

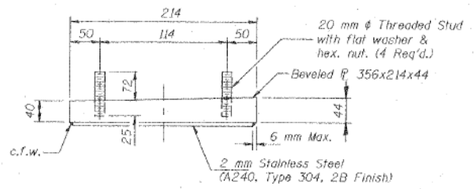


ELEVATION AT EAST ABUT.

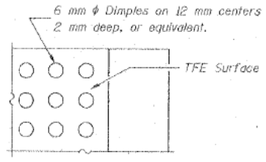


SECTION A-A

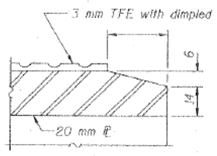
TYPE I ELASTOMERIC EXP. BRG.
EAST ABUTMENT



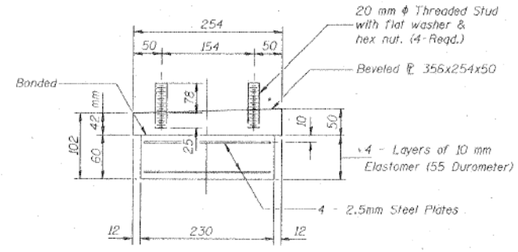
TOP BEARING ASSEMBLY WEST ABUT.



PLAN-TFE SURFACE

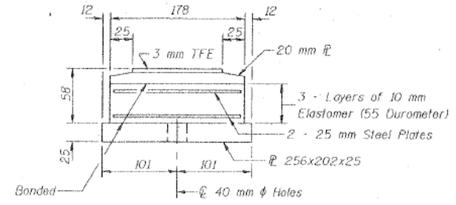


SECTION THRU TFE

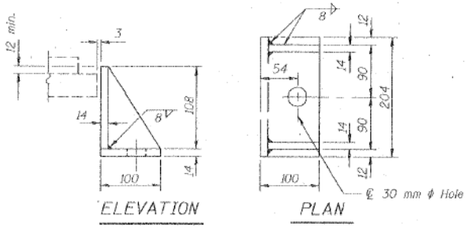


BEARING ASSEMBLY EAST ABUTMENT

Note: Shim plates shall not be placed under Bearing Assembly.



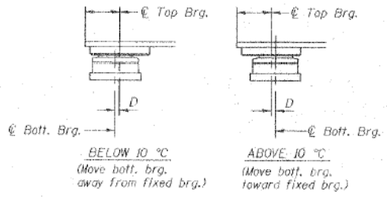
BOTTOM BEARING ASSEMBLY WEST ABUT.



ELEVATION PLAN

SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



SETTING ANCHOR BOLTS AT EXP. BRG.

D= 1 mm per each 10 m of expansion for every 8 °C temp. change from the normal temp. of 10 °C.

Note: The 3 mm TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 3 mm TFE sheet during vulconizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Elastomeric Bearing Assembly Type II	Each	12

NOTES:

1. All dimensions in millimeters (mm) unless otherwise noted.
2. See Sheet S-35 for details of jacking and removal of existing bearings.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELASTOMERIC BEARING
DETAILS EAST & WEST ABUTMENTS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.G.

6/4/2019 PM
D162J31_SHT-AS-BUILT-33

Tran Systems

USER NAME = wjcolletti	DESIGNED EH	REVISED	
	CHECKED WJC	REVISED	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN EH	REVISED	
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

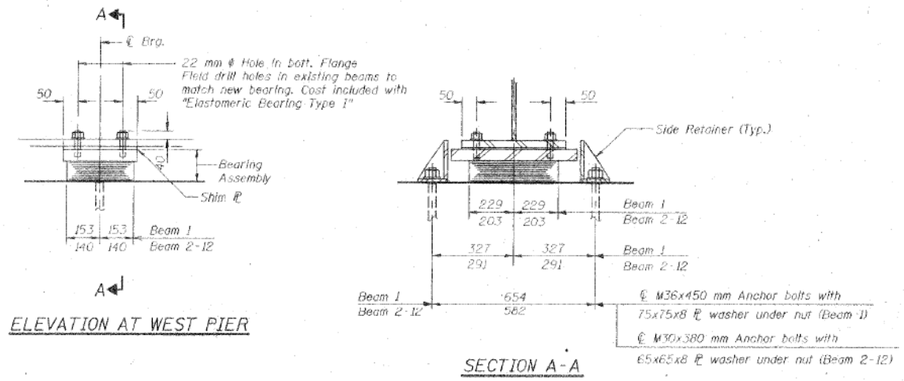
SHEET NO. AB-33 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	260
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	215
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

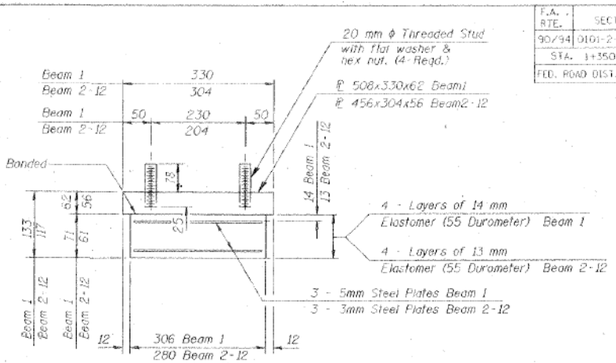
S-34 of 49



ELEVATION AT WEST PIER

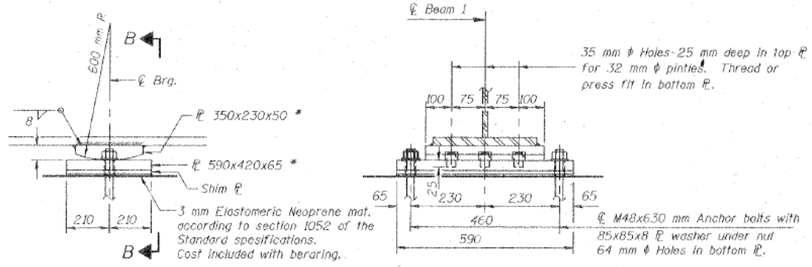
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY WEST PIER

Note: Shim plates shall not be placed under Bearing Assembly.

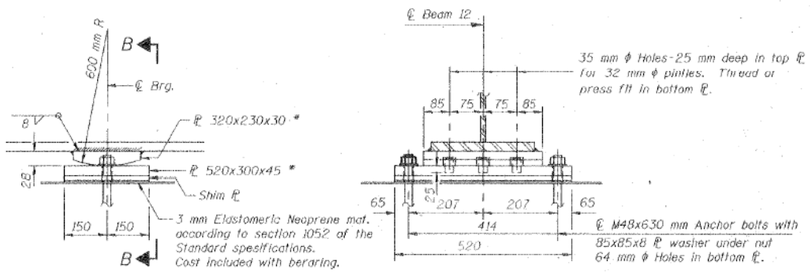


ELEVATION AT EAST PIER

SECTION B-B

FIXED BEARING BEAM 1

* AASHTO M 270M Grade 345 Steel.

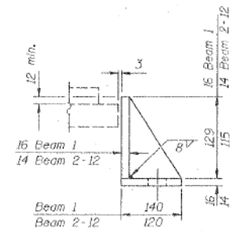


ELEVATION AT EAST PIER

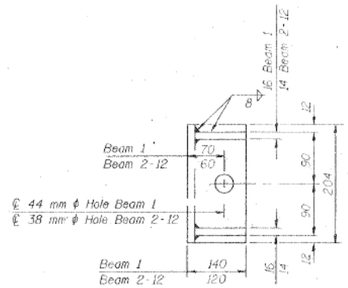
SECTION B-B

FIXED BEARING - BEAM 12

* AASHTO M 270M Grade 345 Steel.



ELEVATION



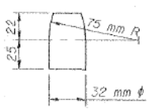
PLAN

SIDE RETAINER WEST PIER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12



PINTLE

NOTES:

1. All dimensions in millimeters (mm) unless otherwise noted.

REVISIONS	
NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELASTOMERIC BEARING
DETAILS - EAST & WEST PIERS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.G.

6:50:04 PM
D:\62J31 SHT-AS-BUILT-34

TranSystems

USER NAME = wjcoletti	DESIGNED	EH	REVISED
	CHECKED	WJC	REVISED
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN	EH	REVISED
PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

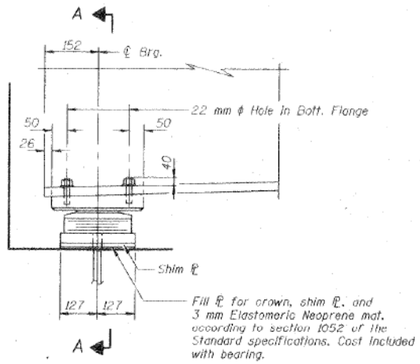
SHEET NO. AB-34 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	261
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

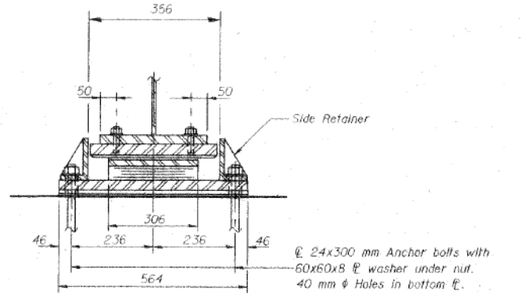
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	56
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

S-35 of 49



ELEVATION AT ABUT.

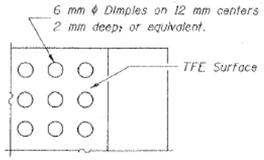


SECTION A-A

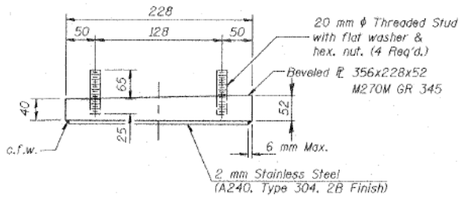
TYPE II ELASTOMERIC EXP. BRG.

Entrance Ramp "A"

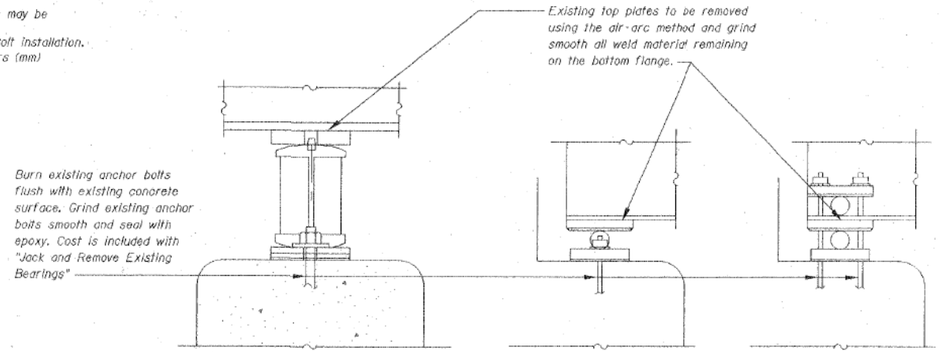
Notes: Anchor bolts at fixed bearings may be built into the masonry. See Sheet S-37 for Anchor Bolt Installation. All dimensions are in millimeters (mm) except as noted.



PLAN-TFE SURFACE



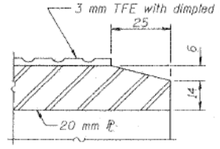
TOP BEARING ASSEMBLY



WEST PIER
Beams 2 thru 11

EAST ABUTMENT
Beams 2 thru 11

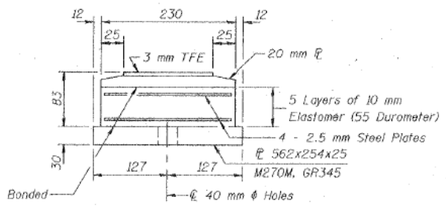
WEST ABUTMENT
Beams 2 thru 11



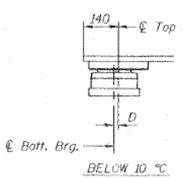
SECTION THRU TFE

Note: The 3 mm TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

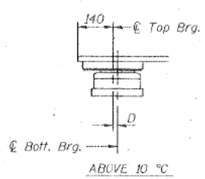
Bonding of 3 mm TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



BOTTOM BEARING ASSEMBLY



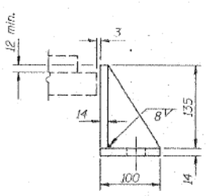
BELOW 10 °C
(Move bott. brg. away from fixed brg.)



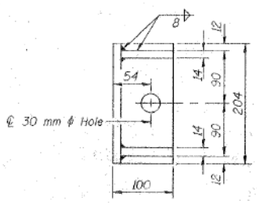
ABOVE 10 °C
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D= 1 mm per each 10 m of expansion for every 8 °C temp. change from the normal temp. of 10 °C.



ELEVATION



PLAN

SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

JACK AND REMOVE EXISTING BEARING PROCEDURE-JACKSON BLVD.

1. The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings.
2. Jacking and removal of bearings shall be done after removal of existing deck is complete.
3. The maximum differential lift between beams at any one substructure unit shall be limited to 7 mm. If simultaneous jacking of all beams at a substructure unit is utilized, then the maximum total lift shall be limited to 19 mm.
4. The maximum reaction per bearing with the deck removed and minimum jack capacities are shown in S-29 table.
5. The new bearings shall be in place and the jacks lowered before the new concrete deck is poured.

BILL OF MATERIAL ENTRANCE RAMP "A"

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	4

NOTES:

1. All dimensions in millimeters (mm) unless otherwise noted.

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A" ELASTOMERIC BEARING
DETAILS TYPE II ABUTMENT
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/5/2026 PM
D:\62J31 SHT-AS-BUILT-35

TranSystems

USER NAME = wjcoletti	DESIGNED EH	REVISED	
	CHECKED WJC	REVISED	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN EH	REVISED	
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

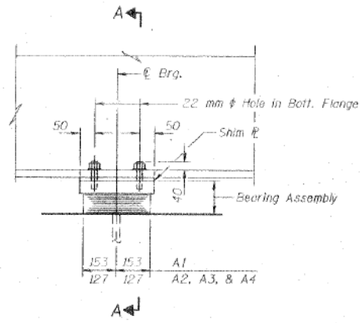
SHEET NO. AB-35 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	262
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

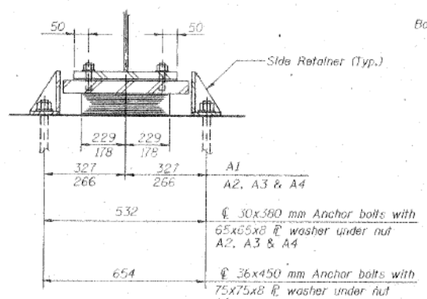
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	57
STA. 1+350.230		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

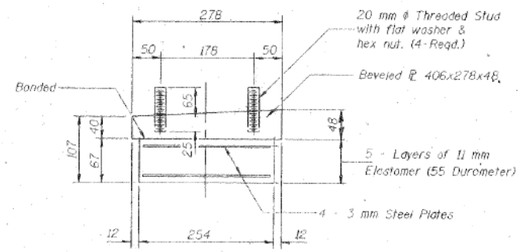
S-36 of 49



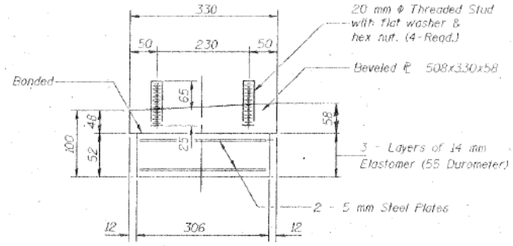
ELEVATION AT PIER 1



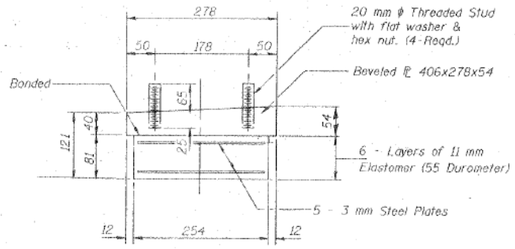
SECTION A-A



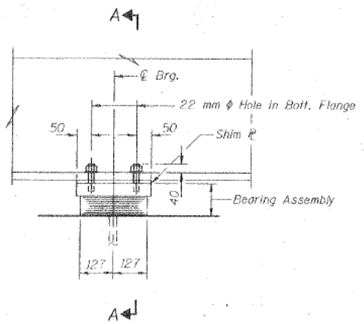
BEARING ASSEMBLY PIER 1 (A2, A3, & A4)



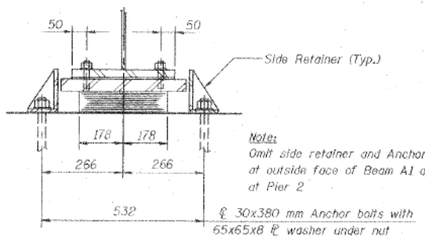
BEARING ASSEMBLY PIER 1 (A1)



BEARING ASSEMBLY PIER 2



ELEVATION AT PIER 2



Note:
Omit side retainer and Anchor Bolt at outside face of Beam A1 and A4 at Pier 2

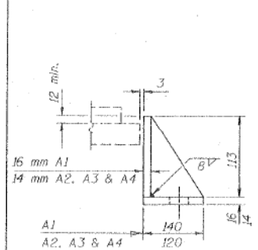
SECTION A-A

BILL OF MATERIAL

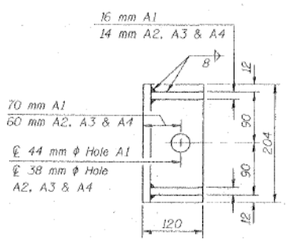
Item	Unit	Total
Elastomeric Bearing Assembly Type 1	Each	8

NOTES:

1. All dimensions in millimeters (mm) unless otherwise noted.



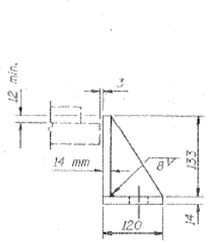
ELEVATION



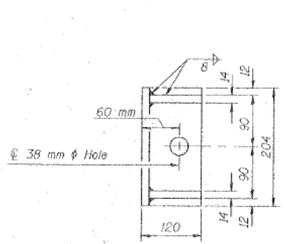
PLAN

SIDE RETAINER PIER 1

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



ELEVATION



PLAN

SIDE RETAINER PIER 2

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

REVISIONS NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A"
ELASTOMERIC BEARING DETAILS-PIER 1 & 2
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY E.K. CHECKED BY J.D.G.

USER NAME = wjcolletti	DESIGNED EH	REVISED
	CHECKED WJC	REVISED
PLOT SCALE = 0:2.0000 ':' / in.	DRAWN EH	REVISED
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-36 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	263
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

6150x49 PW
0102J31_SHT-AS-BUILT-36

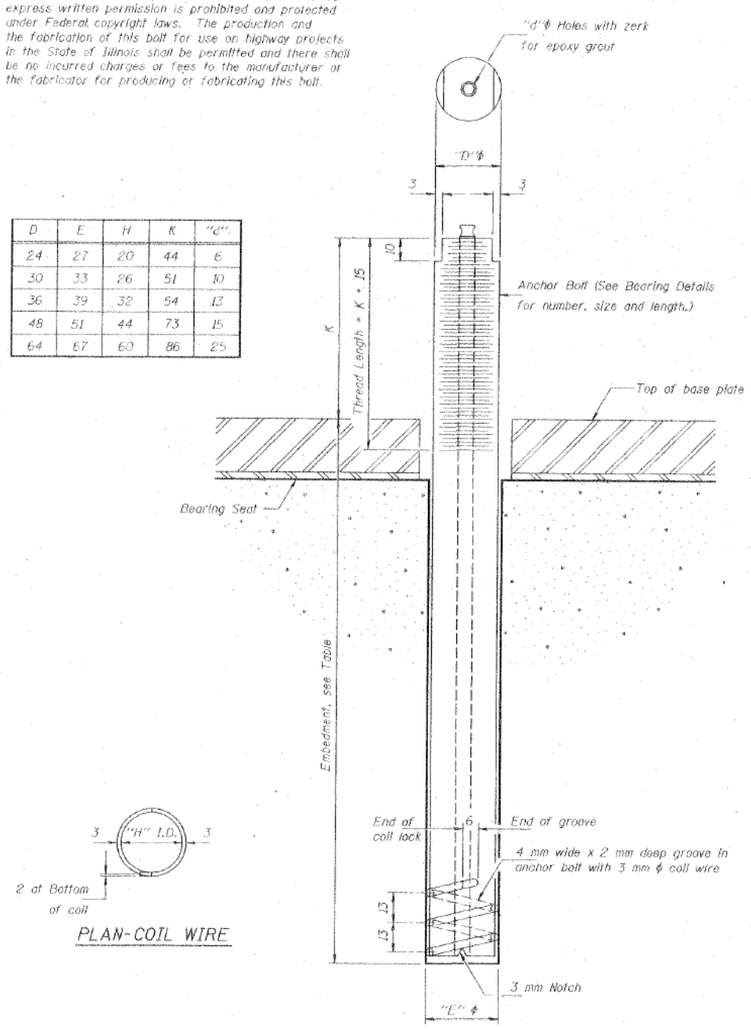
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S.			226	58
F.A.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

S-37 of 49

D	E	H	K	"d"
24	27	20	44	6
30	33	26	51	10
36	39	32	54	13
48	51	44	73	15
64	67	60	86	25



PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Size	Type	Embedment
Jackson Blvd Bridge Abutments	M24x300	A307	256
Jackson Blvd Bridge West Pier Beam 1	M36x450	A307	396
Jackson Blvd Bridge West Pier Beams 2-12	M30x380	A307	329
Jackson Blvd Bridge East Pier Beam 1	M48x630	A307	557
Jackson Blvd Bridge East Pier Beam 12	M48x630	A307	557
Ramp "A" Pier 1 & 2 Beam A1	M36x450	A307	396
Ramp "A" Pier 1 & 2 Beam A2, A3 & A4	M30x380	A307	329
Ramp "A" Abutment	M24x300	A307	256

ASTM F 1554 (Fy = 724 MPa), ASTM A 449 and AASHTO M 314 (Fy = 724 MPa) anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

All dimensions are in millimeters (mm) except as noted.

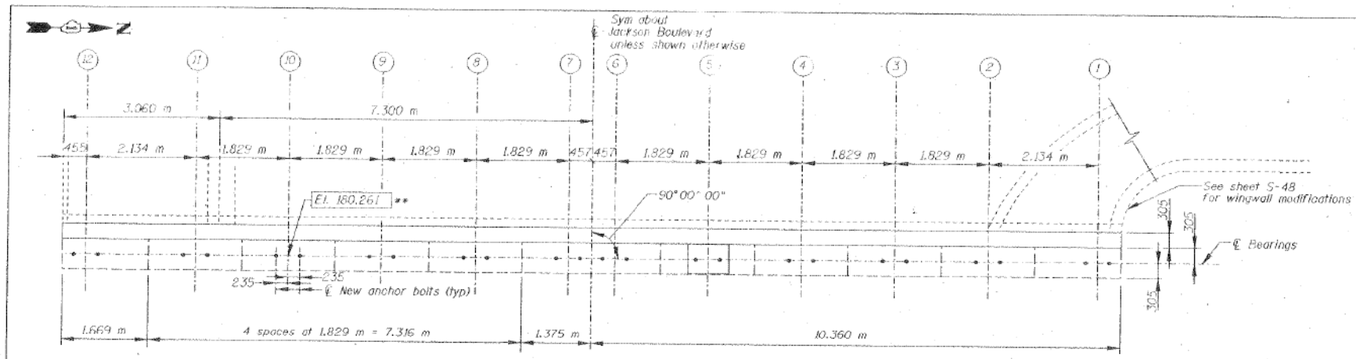
ANCHOR BOLT DETAILS
FOR BEARINGS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588

ABB-1 (M) 4-30-99

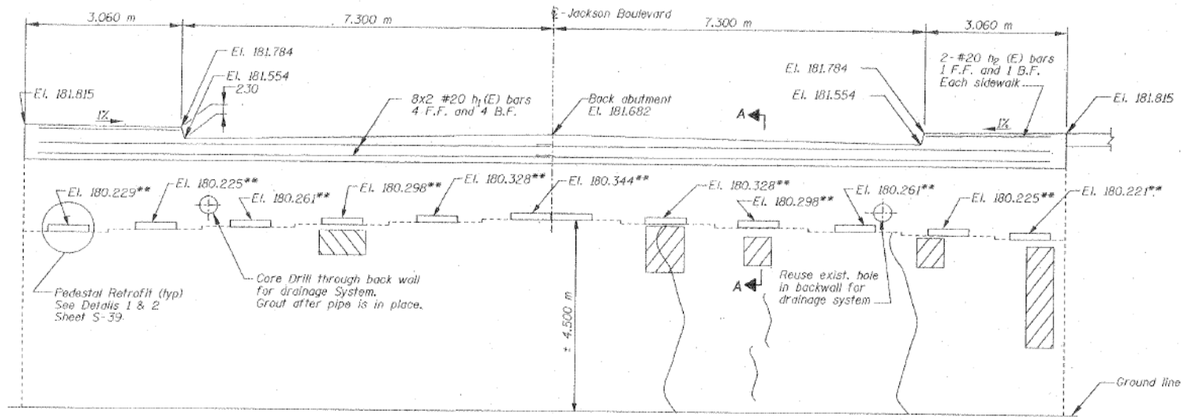
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	64
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

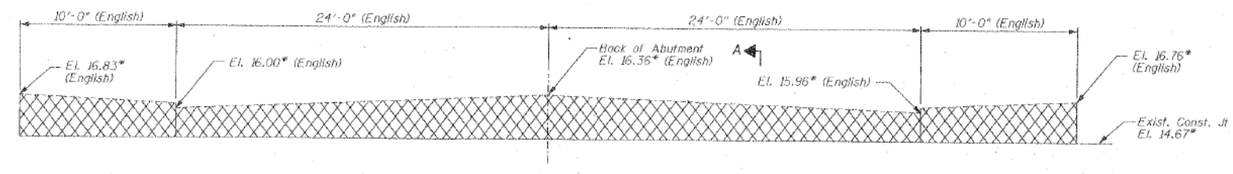
S-38 of 49



Plan



Elevation



Elevation 1
Showing Removal

Note : Existing reinforcing to be cleaned and incorporated into new work

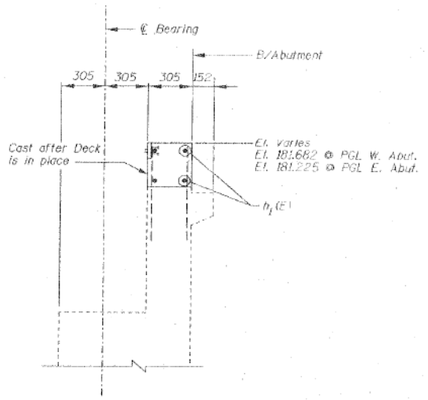
Concrete Removal

High Performance Enhanced Shotcrete

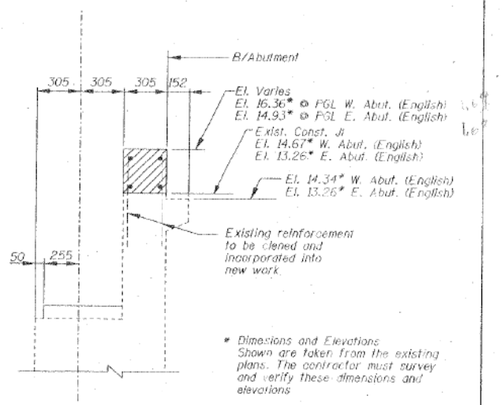
Epoxy Crack Sealing

** Note "E"

Proposed bearing pad elevations are shown for reference only. Prior to removal of existing bearings, the contractor shall survey and determine the elevations of the tops of existing beams 2 thru 11. The contractor shall adjust the proposed bearing pad elevations and heights to maintain the elevations of the top of beams elevation for the new bearings.



SECTION A-A
Showing construction



* Dimensions and Elevations Shown are taken from the existing plans. The contractor must survey and verify these dimensions and elevations

SECTION A-A
Showing Removal

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Space reinforcement in cap to miss anchor bolts.
3. All edges shall have standard 20 mm chamfers except as noted.
4. Bonded Construction Joint shall be in accordance with Article 503.09 of the Standard Specifications.
5. See sheet S-39 for Bill of Material

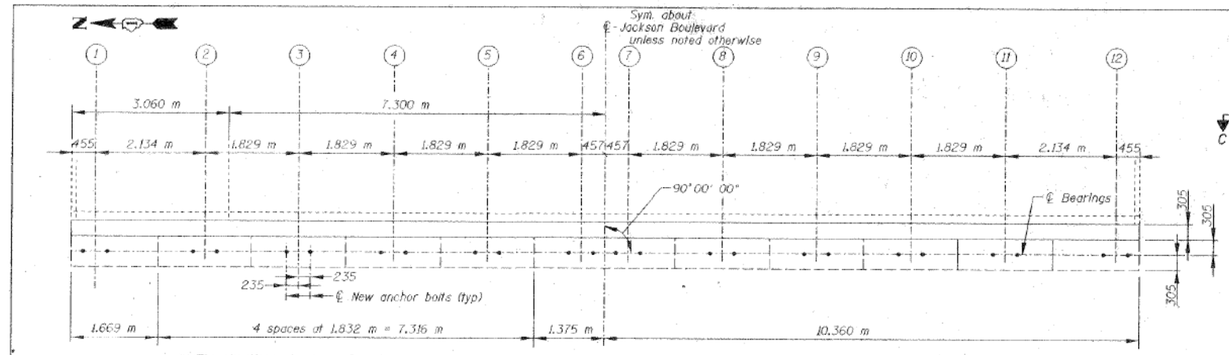
Note: All dimensions are in millimeters (mm) unless otherwise noted.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WEST ABUTMENT
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY E.K. CHECKED BY J.D.G.

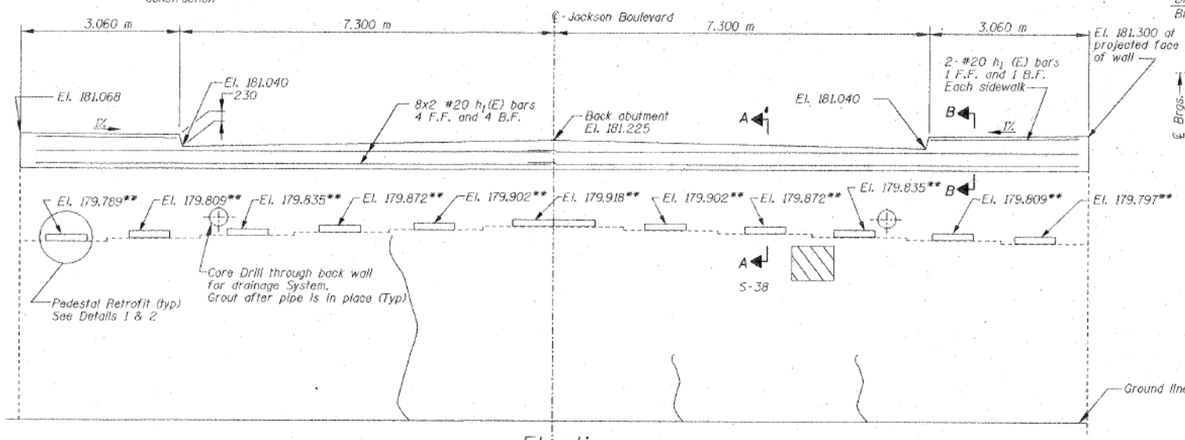
STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

FOR INFORMATION ONLY

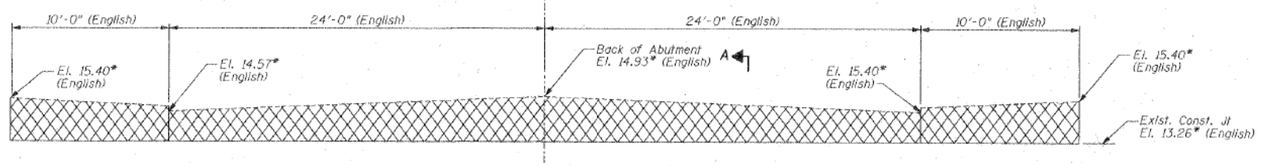


Plan

** The elevations shown are based on plans of the existing structure. The contractor must verify prior to construction



Elevation



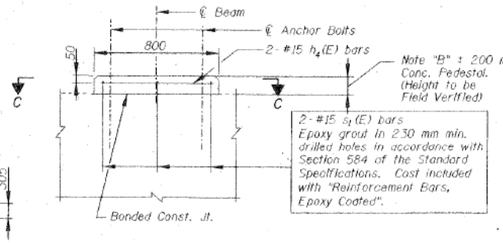
Elevation 1

Showing Abutment Removal

A S-38

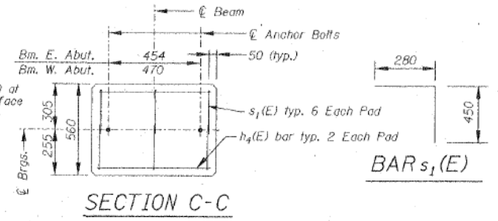
Note : Existing reinforcing to be cleaned and incorporated into new work

Dimensions and Elevations shown are from plans of the existing structure. The contractor must survey and verify these dimensions and elevations

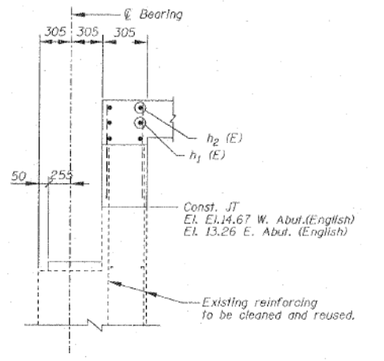


DETAIL 1: PEDESTAL RETROFIT

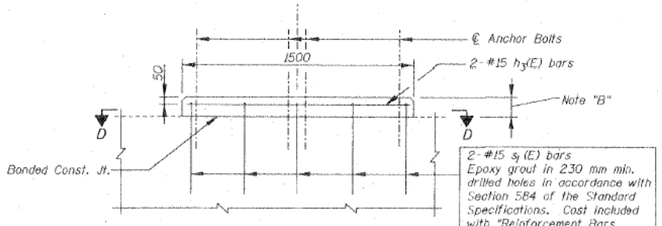
(Bms. 1-5 & 8-12)



SECTION C-C

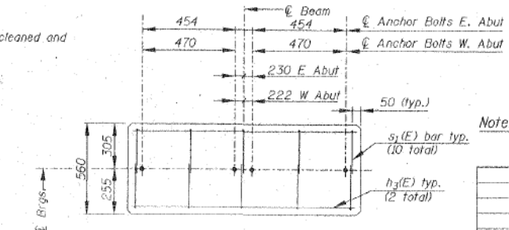


SECTION B-B



DETAIL 2: PEDESTAL RETROFIT

(Bms. 6 & 7)



SECTION D-D

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. See Sheet S-38 for Sections A-A.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	60
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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BILL OF MATERIAL

(For both abutments)

BAR	NO.	SIZE	LENGTH	SHAPE
$h_1(E)$	16	#20	11.100 m	
$h_2(E)$	8	#20	2.960 m	
$h_3(E)$	4	#15	1.400 m	
$h_4(E)$	48	#15	0.700	
$s_1(E)$	152	#15	0.730 m	

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	710
Concrete Removal	m^3	6
Concrete Structures	m^3	6
Epoxy Crack Sealing	m	20
Structure Excavation	m^3	20
Porous Granular Embankment	m^3	20
High Performance Enhanced Shotcrete	m^2	12

** See Note "E" S-38

Concrete Removal

High Performance Enhanced Shotcrete

Epoxy Crack Sealing

REVISIONS	
NAME	DATE

3/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT

JACKSON BOULEVARD, FAU 1422 OVER

JOHN F. KENNEDY EXPRESSWAY, FAI 90/94

SECTION 0101-2-1B-R-1 COOK COUNTY

STATION 1+350.230 STRUCTURE NO. 016-0588

DESIGNED BY J.D.G. DRAWN BY C.U.

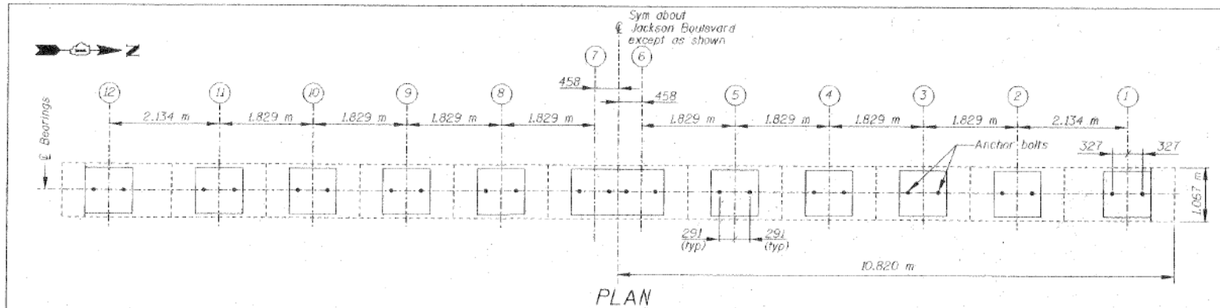
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated

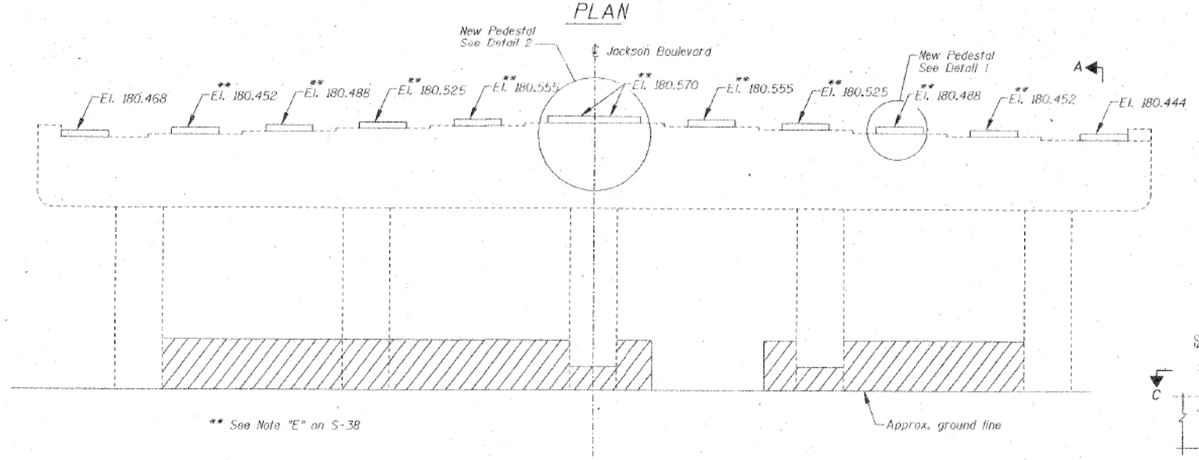
Engineers/Architects/Planners/Construction Managers

70 W. Madison St. Chicago, IL 60602-4207

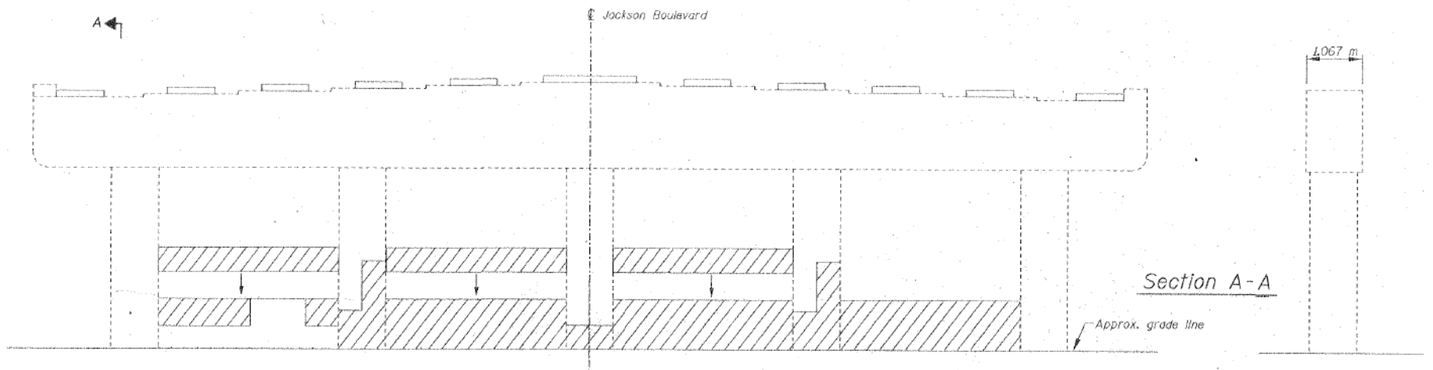
FOR INFORMATION ONLY



PLAN

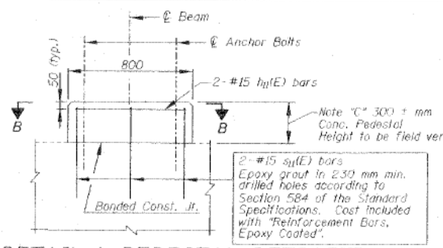


ELEVATION - WEST FACE
(looking east)

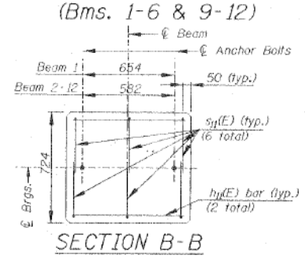


Section A-A

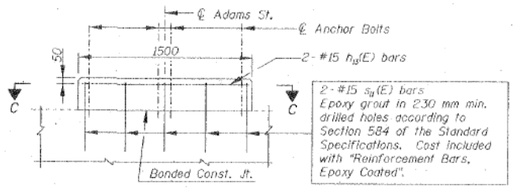
ELEVATION - EAST FACE
(looking west)



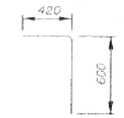
DETAIL 1: PEDESTAL RETROFIT
(Bms. 1-6 & 9-12)



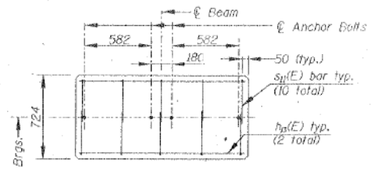
SECTION B-B



DETAIL 2: PEDESTAL RETROFIT
(Bms. 7 & 8)



BAR $s_H(E)$



SECTION C-C

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Existing conduits extending through work areas shall be removed and re-installed as necessary. Cost included with "High Performance Shotcrete".
3. Contractor to verify location of existing reinforcement before drilling holes for new bars.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	91
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$h_H(E)$	24	#15	0.700 m	———
$h_H(E)$	2	#15	1.400 m	———
$s_H(E)$	82	#15	1.020 m	⌐ ¬

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	165
Concrete Removal	m^3	3
Concrete Structures	m^3	3
High Performance Enhanced Shotcrete	m^2	36

* Clean and Straighten and Incorporate into New Construction.

REVISIONS NAME	DATE

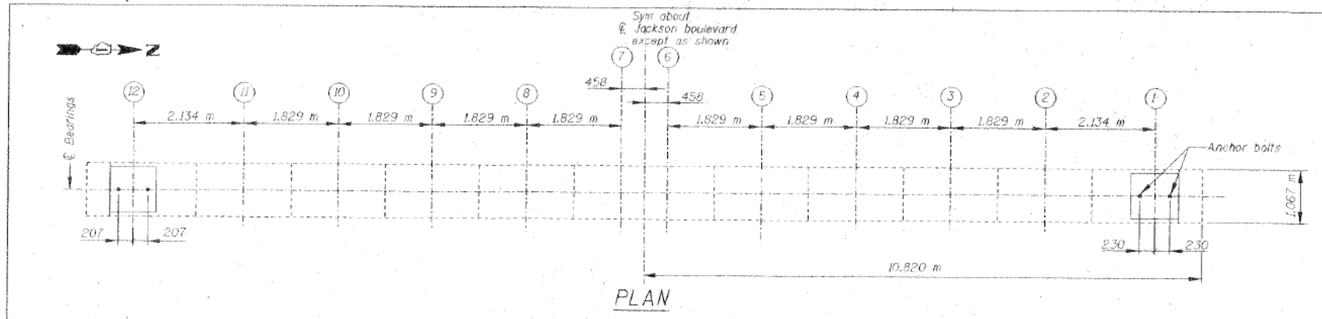
ILLINOIS DEPARTMENT OF TRANSPORTATION
WEST PIER
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.D.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

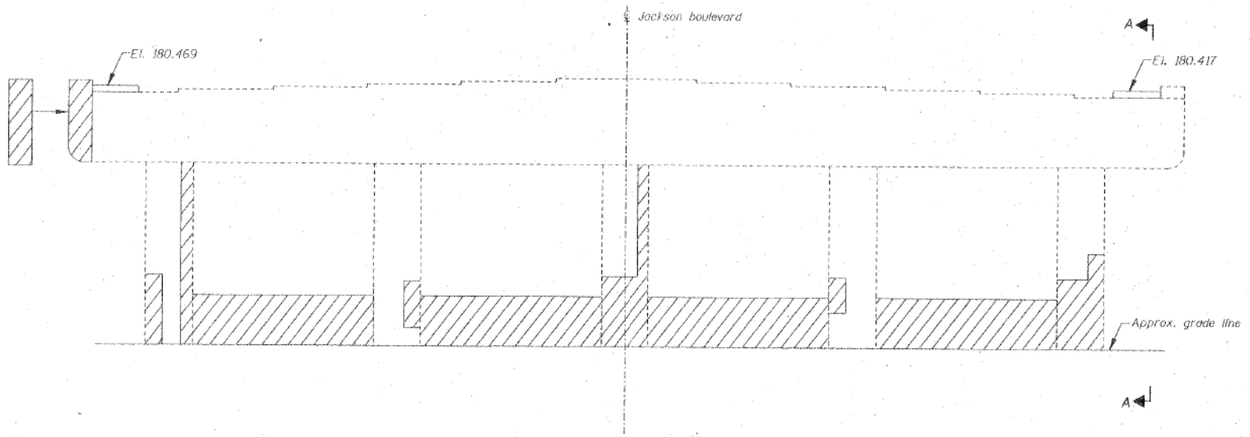
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	62
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-41 of 49

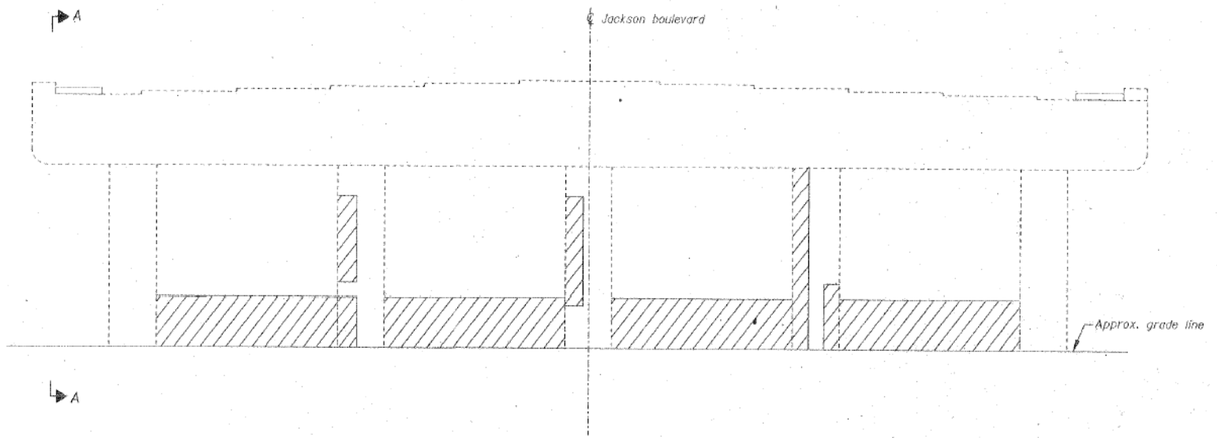


PLAN



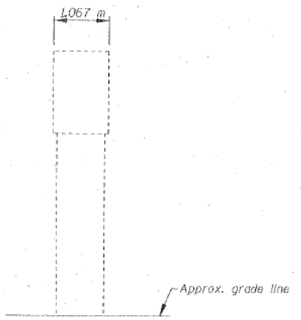
ELEVATION - WEST FACE

(looking east)



ELEVATION - EAST FACE

(looking west)



Section A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
High Performance Enhanced Shotcrete	m^2	32

High Performance Enhanced Shotcrete

** Substructure repair quantities will be provided based on the results of a field inspection. Upon completion of the inspection, quantities will be provided.

NOTES:

1. For pedestal details and reinforcement bars see drawing S-40.
2. Bill of material included in West Pier.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST PIER

JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY T.C.U.
DATE 4-00 CHECKED BY E.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

USER NAME = wjcolletti	DESIGNED EH	REVISED
	CHECKED WJC	REVISED
PLOT SCALE = 0:2.0000 ':' / in.	DRAWN EH	REVISED
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

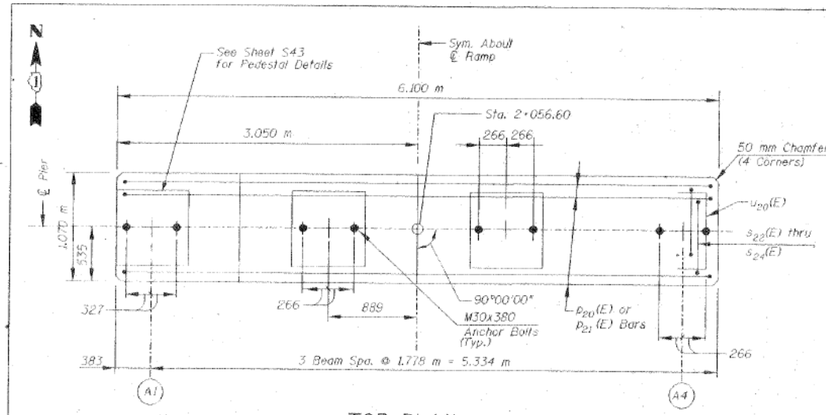
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-41 OF AB-65 SHEETS

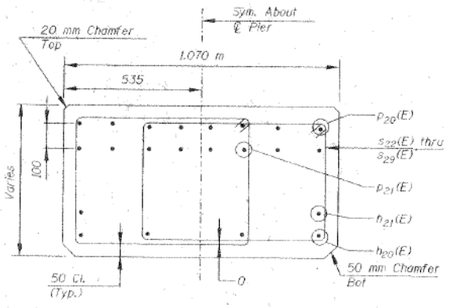
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	268
		CONTRACT NO. 62J31		
ILLINOIS FED. AID PROJECT				

6/5/2019 PM
0102J31_SHT-AS-BUILT-41

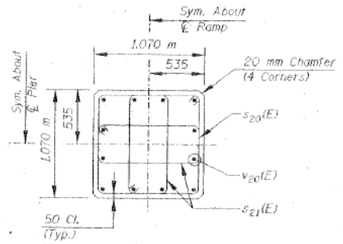
FOR INFORMATION ONLY



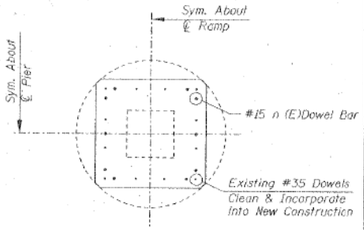
TOP PLAN



SECTION A-A



SECTION B-B



SECTION C-C

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	65
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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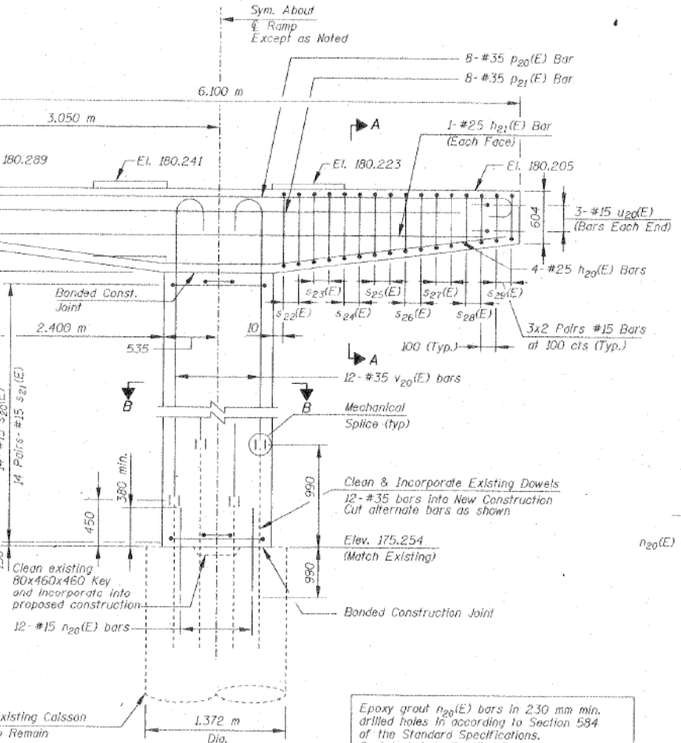
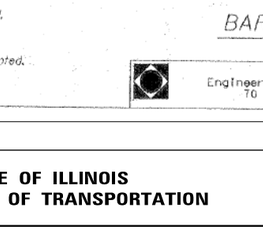
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$h_{20}(E)$	4	#25	7.000 m	
$h_{21}(E)$	2	#25	6.000 m	
$n_{20}(E)$	12	#15	0.610 m	
$p_{20}(E)$	8	#35	6.920 m	
$p_{21}(E)$	8	#35	5.000 m	
$s_{20}(E)$	14	#15	4.160 m	
$s_{21}(E)$	28	#15	2.960 m	
$s_{22}(E)$	12	#15	3.320 m	
$s_{23}(E)$	12	#15	3.240 m	
$s_{24}(E)$	12	#15	3.160 m	
$s_{25}(E)$	12	#15	3.080 m	
$s_{26}(E)$	12	#15	3.000 m	
$s_{27}(E)$	12	#15	2.920 m	
$s_{28}(E)$	12	#15	2.840 m	
$s_{29}(E)$	12	#15	2.760 m	
$u_{20}(E)$	6	#15	1.570 m	
$v_{20}(E)$	12	#35	4.460 m	

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	2035
Concrete Removal	m^3	10
Concrete Structures	m^3	10
Mechanical Splice	each	12
Bridge Seat Sealer	m^2	1



ELEVATION
(Looking North)

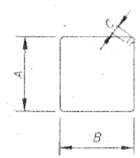


SIDE VIEW

Epoxy grout $n_{20}(E)$ bars in 230 mm min. drilled holes in according to Section 584 of the Standard Specifications. Cost included with "Reinforcement Bars, Epoxy Coated".

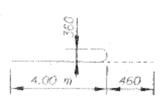
TABLE OF BAR DIMENSIONS

BAR	A	B	C
$s_{20}(E)$	970	970	140
$s_{21}(E)$	970	370	140
$s_{22}(E)$	809	710	140
$s_{23}(E)$	770	710	140
$s_{24}(E)$	731	710	140
$s_{25}(E)$	692	710	140
$s_{26}(E)$	653	710	140
$s_{27}(E)$	614	710	140
$s_{28}(E)$	575	710	140
$s_{29}(E)$	536	710	140

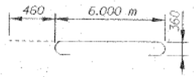


BARS $s_{20}(E)$ & $s_{21}(E)$

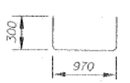
BAR $h_{20}(E)$



BAR $v_{20}(E)$



BAR $p_{20}(E)$



BAR $u_{20}(E)$

Note: All dimensions are in millimeters (mm) unless otherwise noted.

NOTES:

1. All dimensions are in millimeters (mm) unless otherwise noted.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Space reinforcement in cap 10 miss anchor bolts.
4. All edges shall have standard 20 mm chamfers except as noted.
5. Four steps monolithically with cap.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP "A" RECONSTRUCTION PIER 1
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 14+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.C. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.C.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/25/2019 PM
D:\62J31 SHT-AS-BUILT-42

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	CHECKED	WJC	REVISED
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

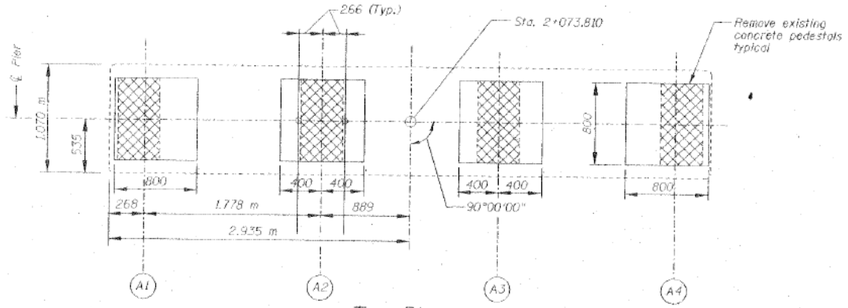
SHEET NO. AB-42 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	269
		CONTRACT NO. 62J31		
ILLINOIS	FED. AID PROJECT			

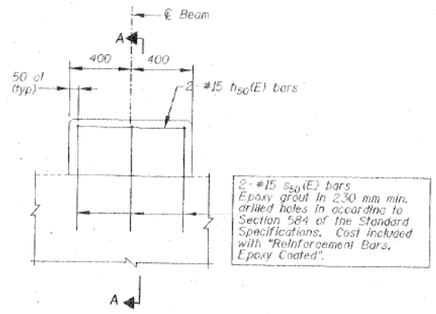
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	276	54
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

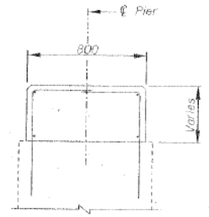
S-43 of 49



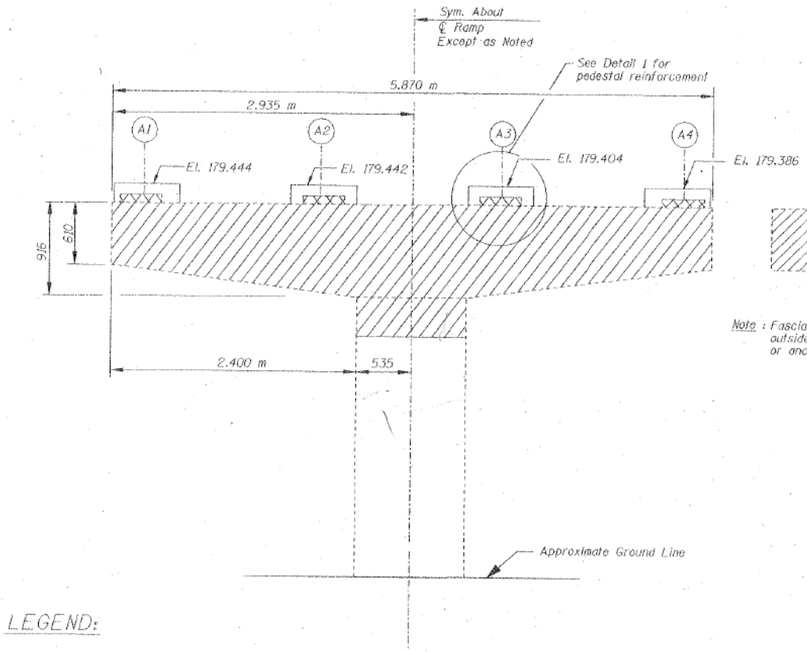
Top Plan



DETAIL 1

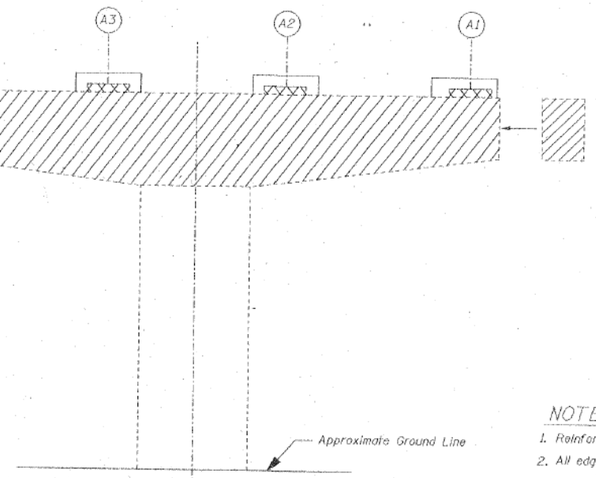


SECTION A-A



Elevation
(Looking North)

Note : Fascia beams do not have outside side retainers or anchor bolt

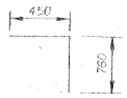


Elevation
(Looking South)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH(m)	SHAPE
h_{50}(E)	12	#15	0.71	
s_{50}(E)	24	#15	1.210	

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	60
Concrete Removal	m^3	10
Concrete Structures	m^3	10
High Performance Enhanced Shotcrete	m^2	11



BAR s_{50} (E)

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All edges shall have standard 20 mm chamfer except as noted.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

LEGEND:

- High Performance Enhanced Shotcrete
- Concrete Removal

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP "A" REHABILITATION PIER 2
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

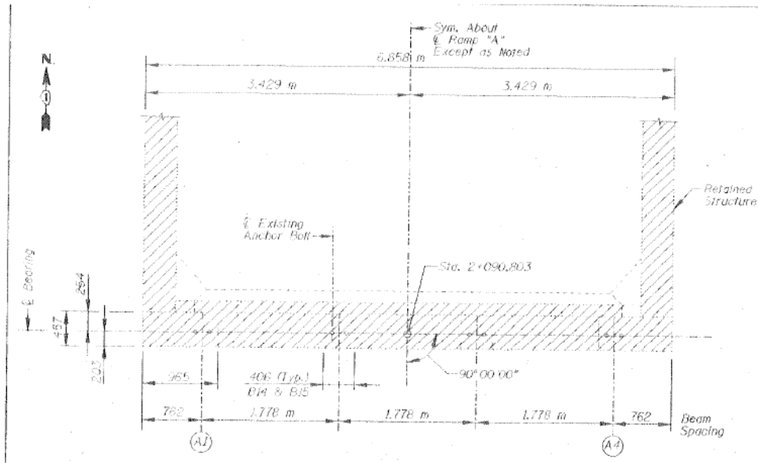
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

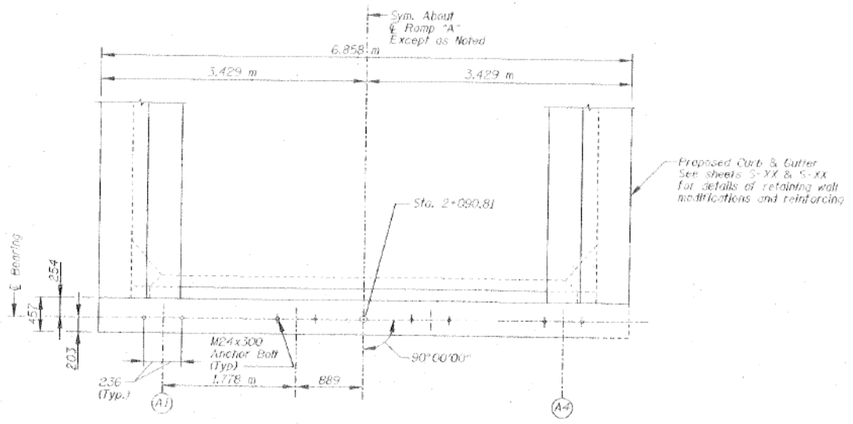
SHEET NO. AB-43 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	270
		CONTRACT NO. 62J31		
ILLINOIS	FED. AID PROJECT			

FOR INFORMATION ONLY



EXISTING PLAN



PROPOSED PLAN

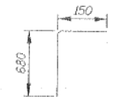
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	45
	STA. 14350.230	TO STA.		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

S-44 of 49

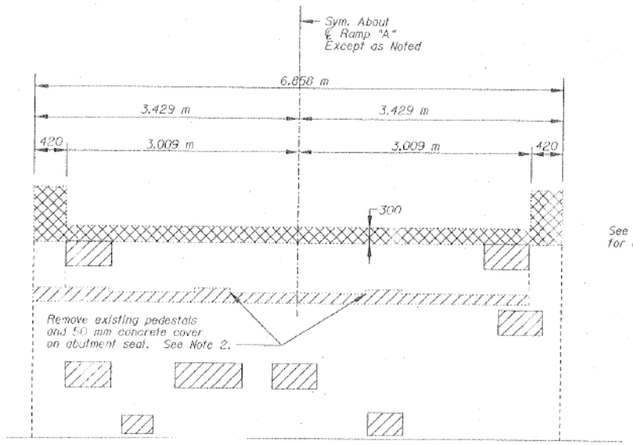
BILL OF MATERIAL

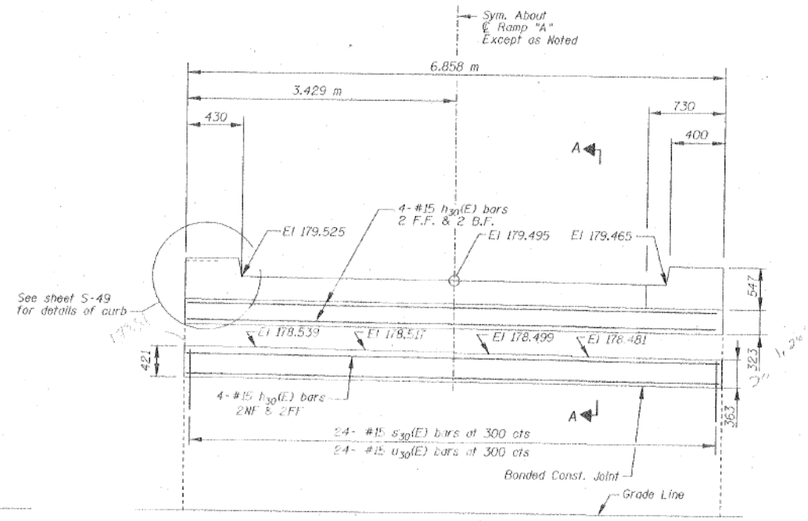
BAR	NO.	SIZE	LENGTH	SHAPE
$h_{30}(E)$	7	#15	6.760 m	
$s_{30}(E)$	48	#15	0.850 m	
$u_{30}(E)$	24	#15	6.330 m	

ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	kg	150
Concrete Removal	m^3	2
Concrete Structures	m^3	2
Bridge Seat Sealer	m^2	2
High Performance Enhanced Shotcrete	m^2	2

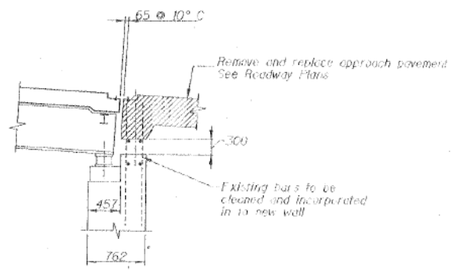


$s_{30}(E)$ BAR



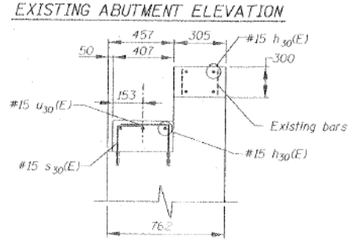


2 #15 s (E) bars
Epoxy grout in 250 mm min. drilled holes according to Section 548 of the Standard Specifications. Cost included with "Reinforcement Bars, Epoxy Coated".



SECTION THROUGH ABUTMENT 1

EXISTING ABUTMENT ELEVATION



SECTION A-A

LEGEND:

Concrete Removal

High Performance Enhanced Shotcrete

PROPOSED ABUTMENT ELEVATION

NOTES:

1. Reinforcement bars designed (E) shall be epoxy coated.
2. Remove 50 mm cover to expose existing reinforcement and verify locations of $s_{30}(E)$ bars to clear existing reinforcement.
3. All edges shall have 20 mm chamfers, except as noted.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS	
NAME	DATE

3/03

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A" DETAILS ABUTMENT
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 14350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.C. DRAWN BY T.U.
DATE 4-00 CHECKED BY J.K. CHECKED BY J.D.C.

6/13/2019 PW
D:\62J31_SHT-AS-BUILT-44

TranSystems

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

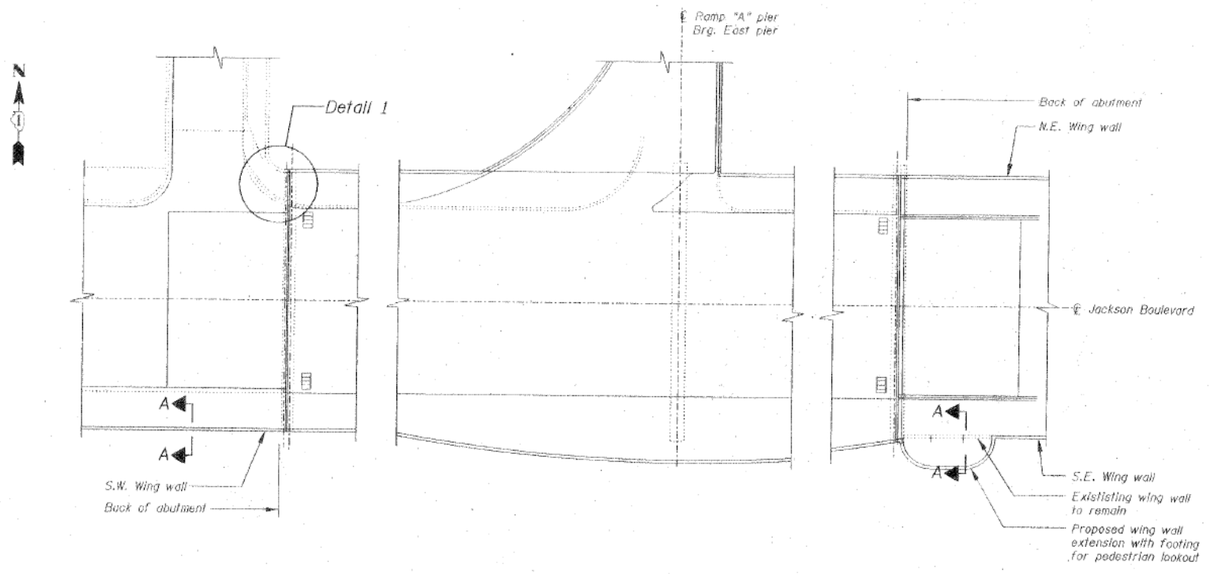
SHEET NO. AB-44 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	271
			CONTRACT NO. 62J31	
		ILLINOIS	FED. AID PROJECT	

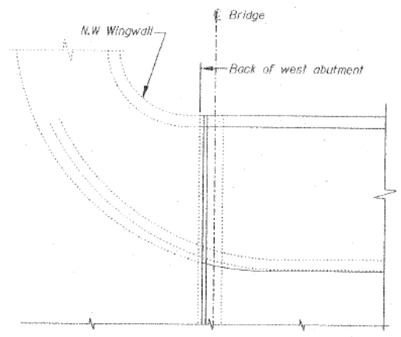
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	220	97
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

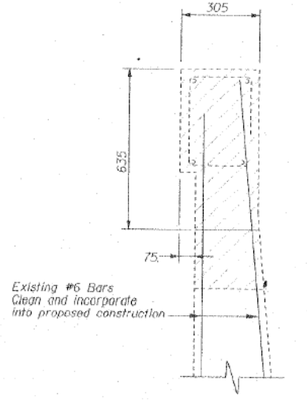
S-46 of 49



PLAN



DETAIL 1



SECTION A-A

Showing Removal

NOTES:

1. For railing details and base plate locations, see Architectural sheets.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WINGWALL REHABILITATION PLANS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/6/2011 PM
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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

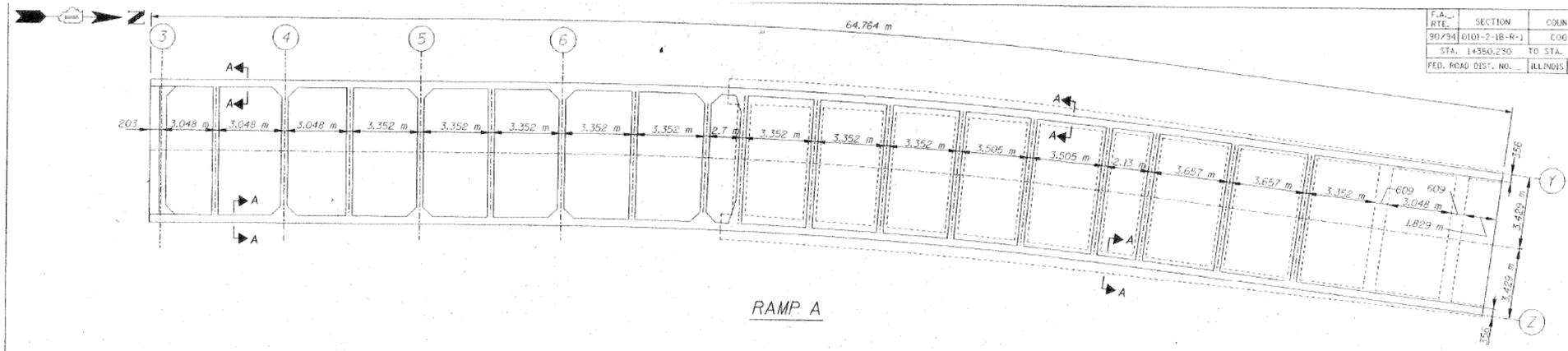
SHEET NO. AB-45 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	272
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

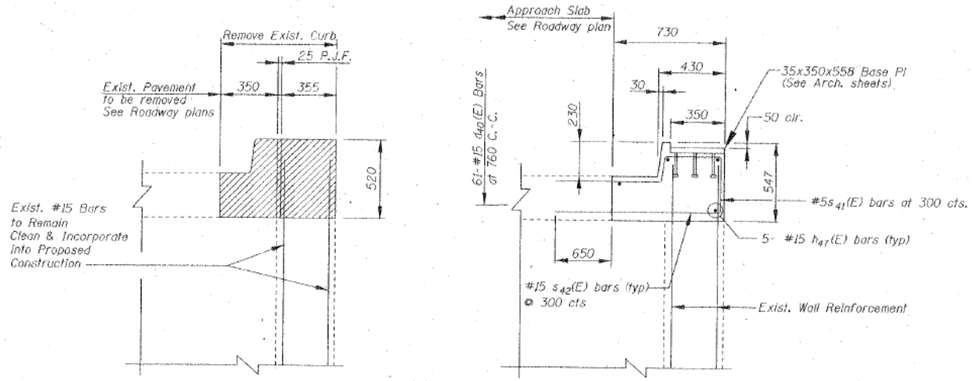
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	68
STA. 14350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-47 of 49



RAMP A



EXISTING PROPOSED

SECTION A-A

TYPICAL RAMP "A" WALLS

Curve Data
Δ = 7°-37'-16"
T = 15.370 m
R = 230.76 m
L = 30.69 m
P.C. Sta. 2+109.01
P.I. Sta. 2+124.35
P.T. Sta. 2+139.70

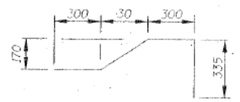
Concrete Removal

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h_{47}(E)	30	#15	11.310 m	
s_{41}(E)	434	#15	1.757 m	
s_{42}(E)	434	#15	1.635 m	

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	2845
Concrete Removal	m^3	43
Concrete Structures	m^3	43

BAR s_{42}(E)



BAR s_{41}(E)

Ramp "A" Curve Data

Curve A-2

Δ = 33° 18' 54"		P.C. Sta.	1+344.247
D = .314 m		Offset	18.590 Lt
T = 5.386 m		P.I. Sta.	1+ 347.207
L = 10.466 m		Offset	23.084 Lt.
R = 18.0 m		P.C.C. Sta.	1+347.207
		Offset	28.470 Lt.

NOTES:
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Space reinforcement in cap 10 miss anchor bolts.
3. All edges shall have standard 20 mm chamfers except as noted.
4. Pour steps monolithically with cap.
5. For railing details and base plate location, see sheets A-101 to A-408.

Note: All dimensions are in millimeters (mm) unless otherwise noted.

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE RAMP "A" RETAINING WALLS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY I.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

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016-2331 SMT-AS-BUILT-46

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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

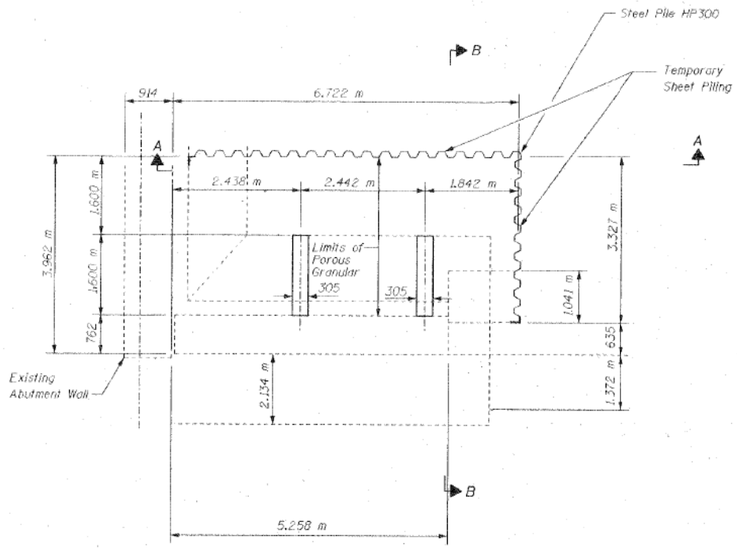
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-46 OF AB-65 SHEETS

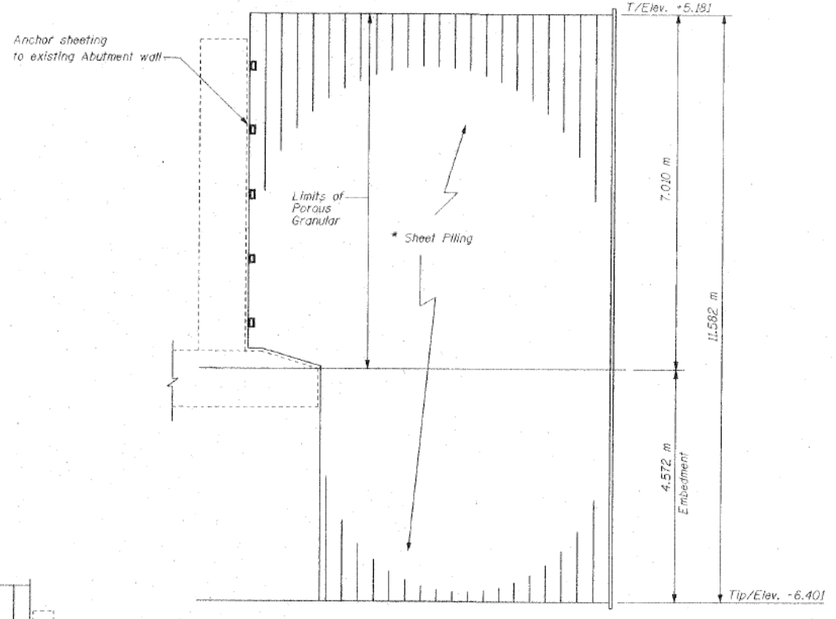
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	273
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

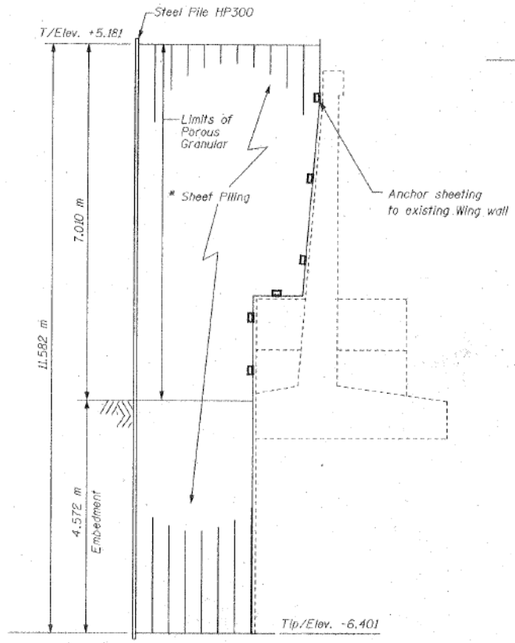
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	69
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



* SECTION B-B

* "If the contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for lesser design requirements, then full design submittals with the required seals will be expected by the Department, for review and approval."

BILL OF MATERIAL

S-48 of 49

BAR	NO.	SIZE	LENGTH(m)	SHAPE
h (E)	24	15	8.900	
h_1(E)	8	15	3.800	
h_2(E)	6	15	3.300	
h_3(E)	2	15	3.000	
h_4(E)	44	15	1.955	
x (E)	18	20	6.220	
x_1(E)	16	20	5.850	
x_2(E)	16	20	5.110	
x_3(E)	9	15	3.300	
x_4(E)	8	15	3.000	
x_5(E)	8	15	2.400	
x_6(E)	7	15	3.930	
h (E)	76	20	0.900	
v (E)	32	20	6.550	
b (E)	31	15	4.420	

ITEM	UNIT	QUANTITY
Reinforcement Bars Epoxy Coated	kg	2255
Concrete Removal	m^3	2
Concrete Structures	m^3	29
Structure Excavation	m^3	157
Porous Granular Embankment	m^3	151

\# Minimum Sheet Piling section Modulus per meter length shall be 2,059,000 mm^3

3/01

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOOKOUT DETAILS
JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

616457 PW
0102J31-SHT-AS-BUILT-47

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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

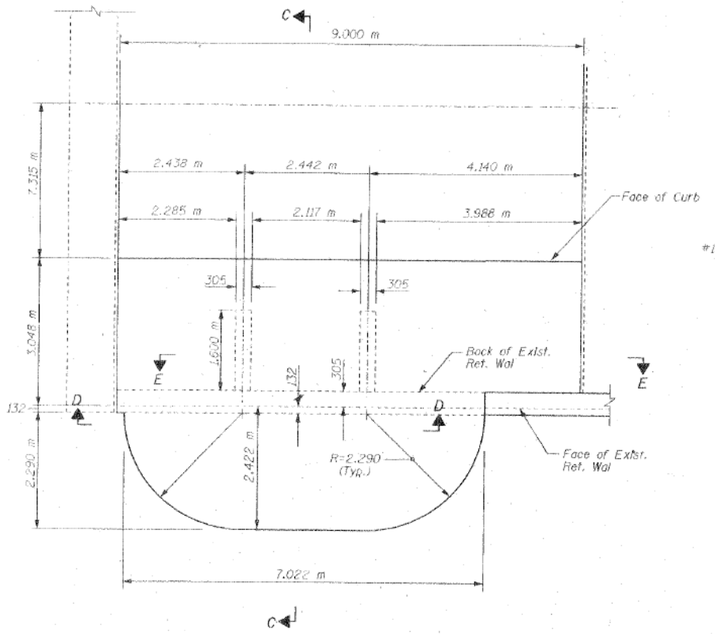
SHEET NO. AB-47 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	274
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

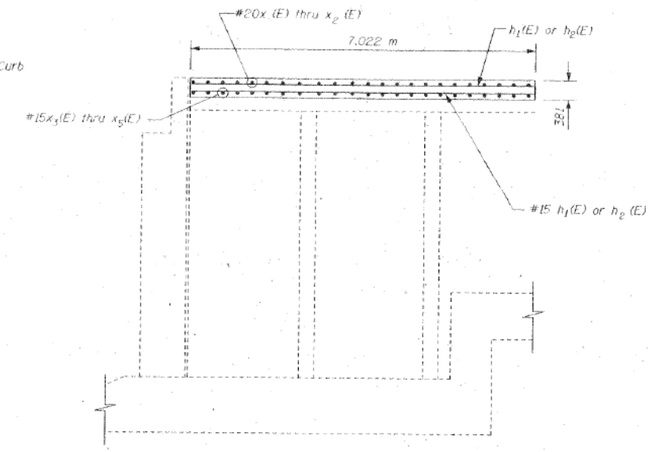
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0101-2-1B-R-1	COOK	226	70
STA. 1+350.230	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

S-49 of 49



PLAN



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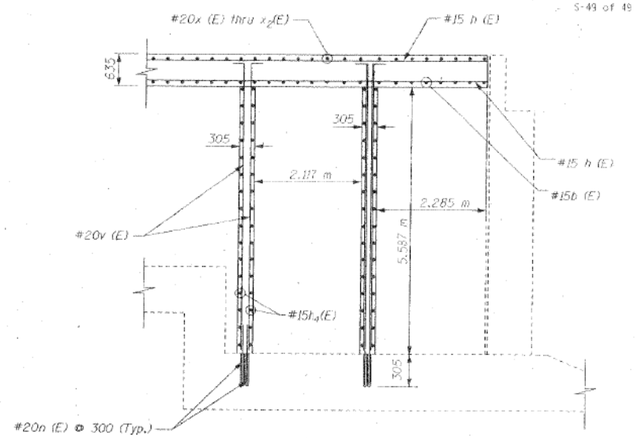

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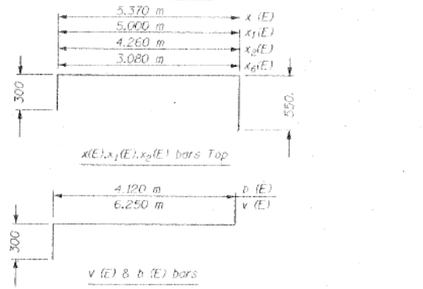
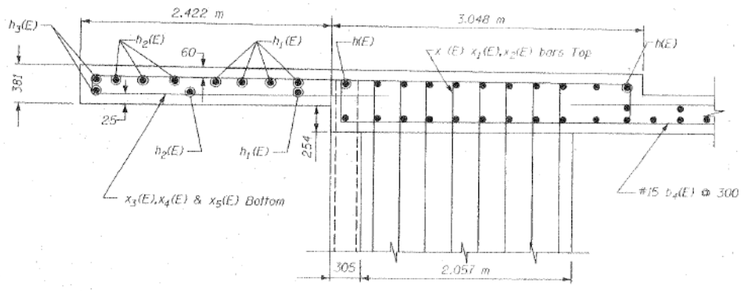


TOP PLAN

SECTION C-C



LOOKOUT SLAB BAR LAYOUT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOOKOUT DETAILS

JACKSON BOULEVARD, FAU 1422 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 0101-2-1B-R-1 COOK COUNTY
STATION 1+350.230 STRUCTURE NO. 016-0588
DESIGNED BY J.D.G. DRAWN BY C.U.
DATE 4-00 CHECKED BY T.K. CHECKED BY J.D.G.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

6/5/2021 PM
D:\62J31\SHT-AS-BUILT-48

TranSystems

USER NAME = wjcolletti	DESIGNED EH	REVISED	
	CHECKED WJC	REVISED	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN EH	REVISED	
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-48 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	275
			CONTRACT NO. 62J31	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

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G-2	GENERAL PLAN AND ELEVATION	2
G-3	EXISTING CONDITIONS AND DETOUR	3
G-4	CONSTRUCTION PLAN AND PAY LIMITS	4
	STRUCTURAL PLANS	
S-1	FOOTING PLAN	5
S-2	EAST PIER	6
S-3	WEST PIER	7
S-4	WEST ABUTMENT	8
S-5	EAST ABUTMENT	9
S-6	SOUTH WINGWALLS	10
S-7	NORTHEAST WINGWALL AND CONDUIT DETAILS	11
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S-9	STRUCTURAL STEEL DETAILS	13
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CONVENTIONAL SIGNS

	DUCT & PIPE LINES	MANHOLES
FIRE HYDRANT		
EXISTING LIGHT STANDARD		
CATCH BASIN		CB
MANHOLE OR CATCH BASIN, TO BE ADJUSTED		
R.O.W. LINE		
NEW LIGHT STANDARD		
MANHOLE TO BE FILLED		MH
NEW CATCH BASIN		CB
COMMONWEALTH EDISON CO.		E
PEOPLES GAS LIGHT & COKE CO.		G
CITY WATER		
CITY SEWERS		
CHICAGO FIRE DISTRICT		FD

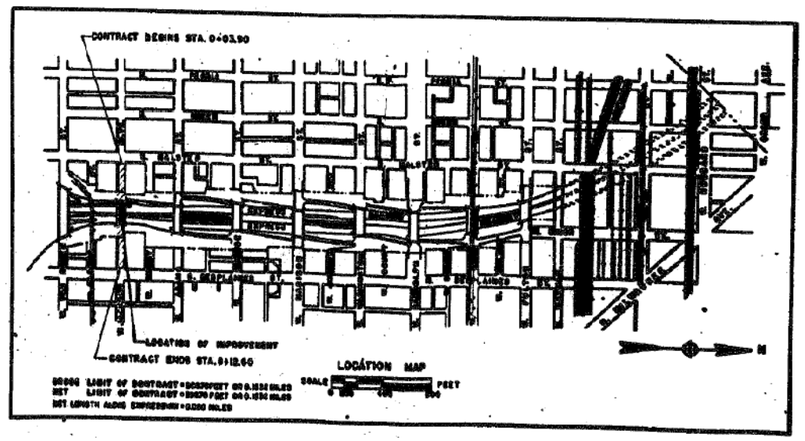
APPROVED AS TO SEWER ALTERATIONS AND ADDITIONS

STATE OF ILLINOIS
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY

PLANS FOR JACKSON BOULEVARD BRIDGE SECTION 0101.2-2B

F.A. ROUTE NO. 173 PROJECT UI 265(4)



PREPARED FOR
THE CITY OF CHICAGO
BY
CONSOER, TOWNSEND AND ASSOCIATES
CONSULTING ENGINEERS

PLANS APPROVED
BY THE STATE DIVISION OF HIGHWAYS

SUMMARY OF ITEMS

RETURN THIS PLAN TO MAINTENANCE ROOM 706 DRAWER 3A

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
DATE JULY 1964
APPROVED [redacted]
APPROVED [redacted]
APPROVED [redacted]
APPROVED [redacted]

THE DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
CHIEF OF BUREAU
APPROVED [redacted]
APPROVED [redacted]

DEPARTMENT OF PUBLIC WORKS
BUREAU OF PUBLIC BUILDINGS
APPROVED [redacted]
CHIEF CLERK [redacted]

SHEET NO. G-1 OF 38 SHEETS

6165143 PM
0102J31 SHT-AS-BUILT-49

TranSystems	USER NAME = wjcolletti	DESIGNED EH	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED WJC	REVISED			90/94/290	2014-017B	COOK	400	276
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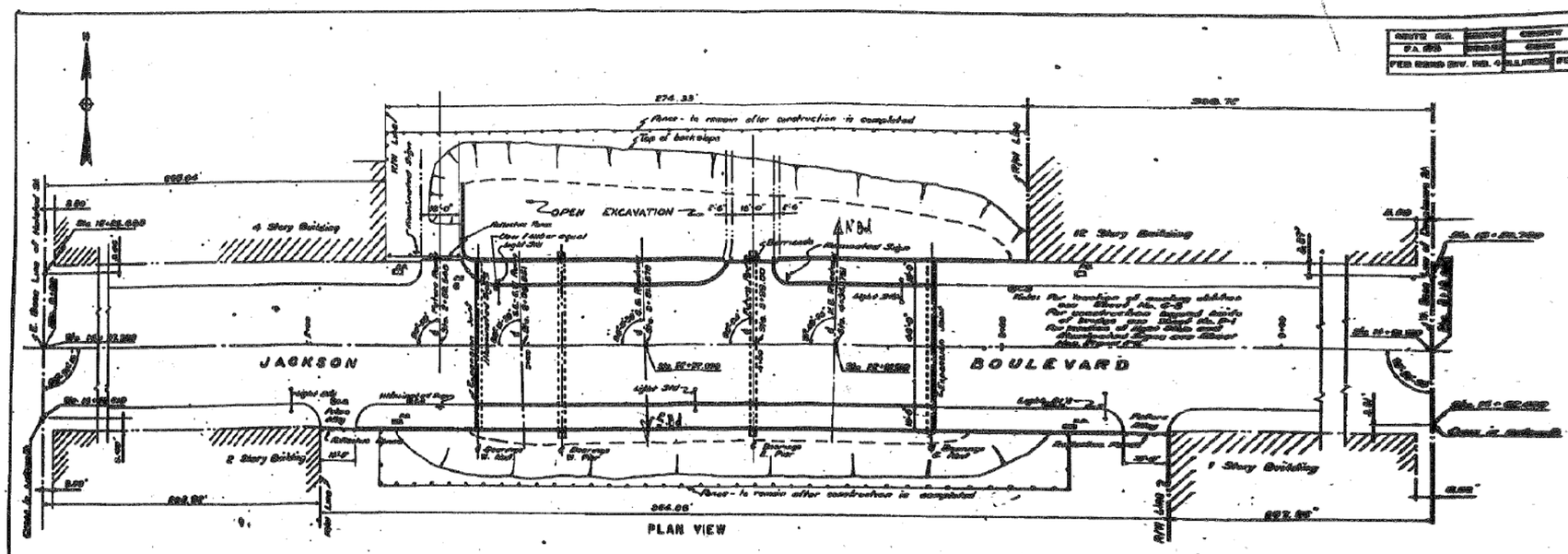
	PLOT DATE = 8/13/2019	CHECKED WJC	REVISED		SHEET NO. AB-49 OF AB-65 SHEETS			ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



GENERAL NOTES

NORTHWEST ROUTE SUPERHIGHWAY

JACKSON BOULEVARD BRIDGE

GENERAL PLAN AND ELEVATION

USER NAME = wjcolletti	DESIGNED EH	REVISED	
	CHECKED WJC	REVISED	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN EH	REVISED	
PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-50 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	277
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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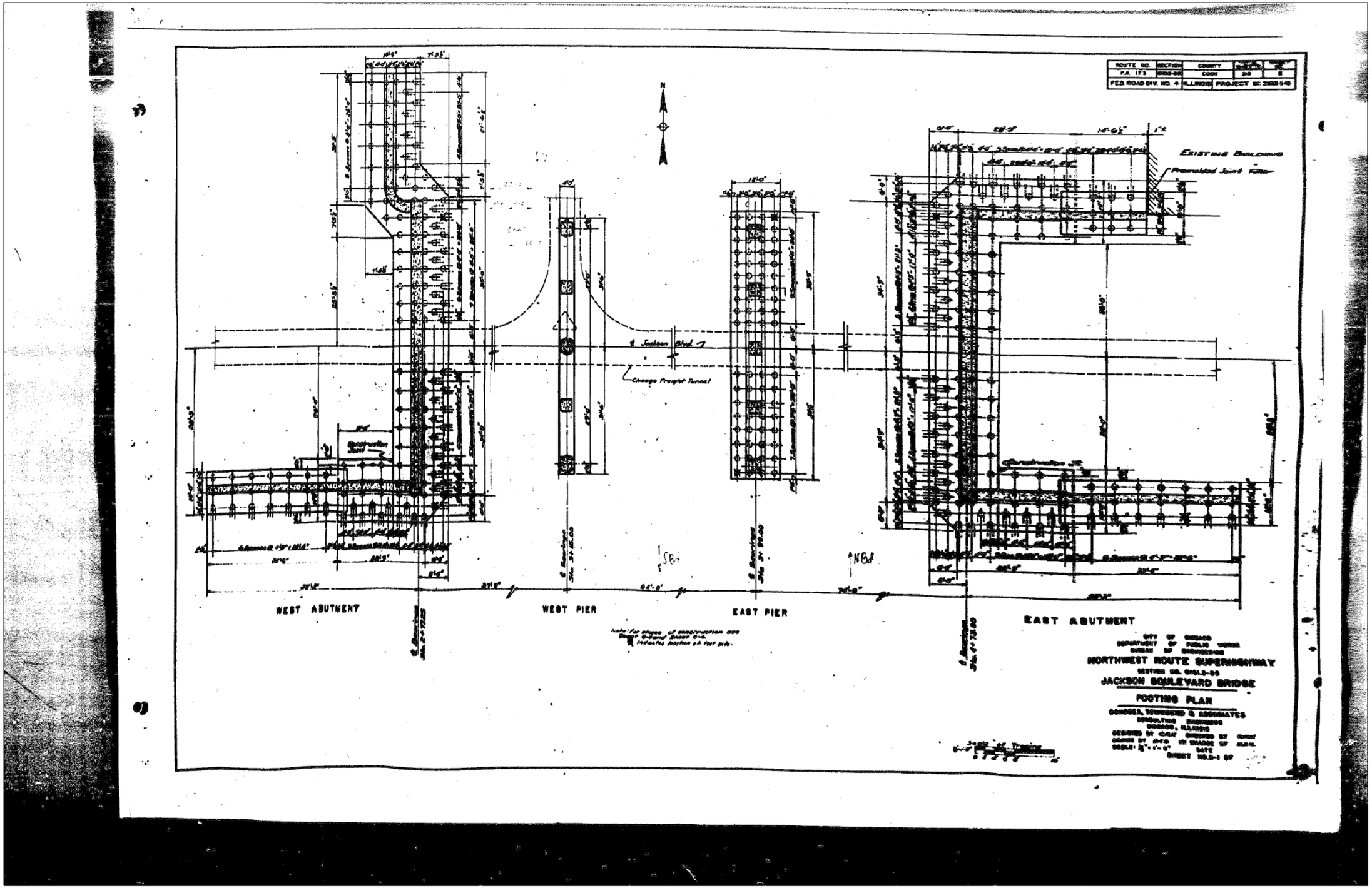
FOR INFORMATION ONLY



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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

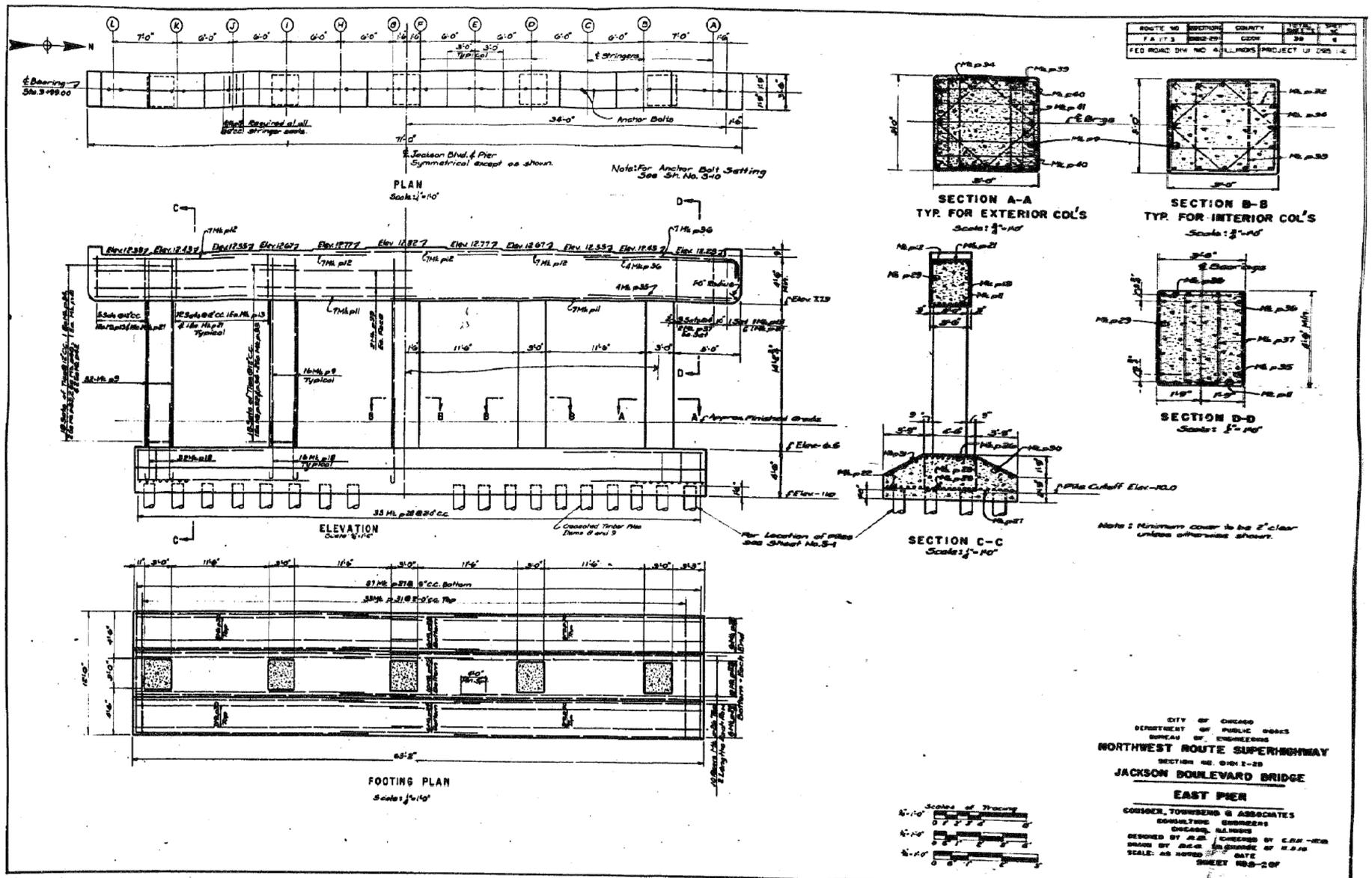
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-51 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	278
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

6156-23 PW
0162J31_SHT-AS-BUILT-51

FOR INFORMATION ONLY



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 117 3	2862-29	COOK	38	6
FED PROJECT DIV NO 4	ILLINOIS	PROJECT IF 2825 (4)		

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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

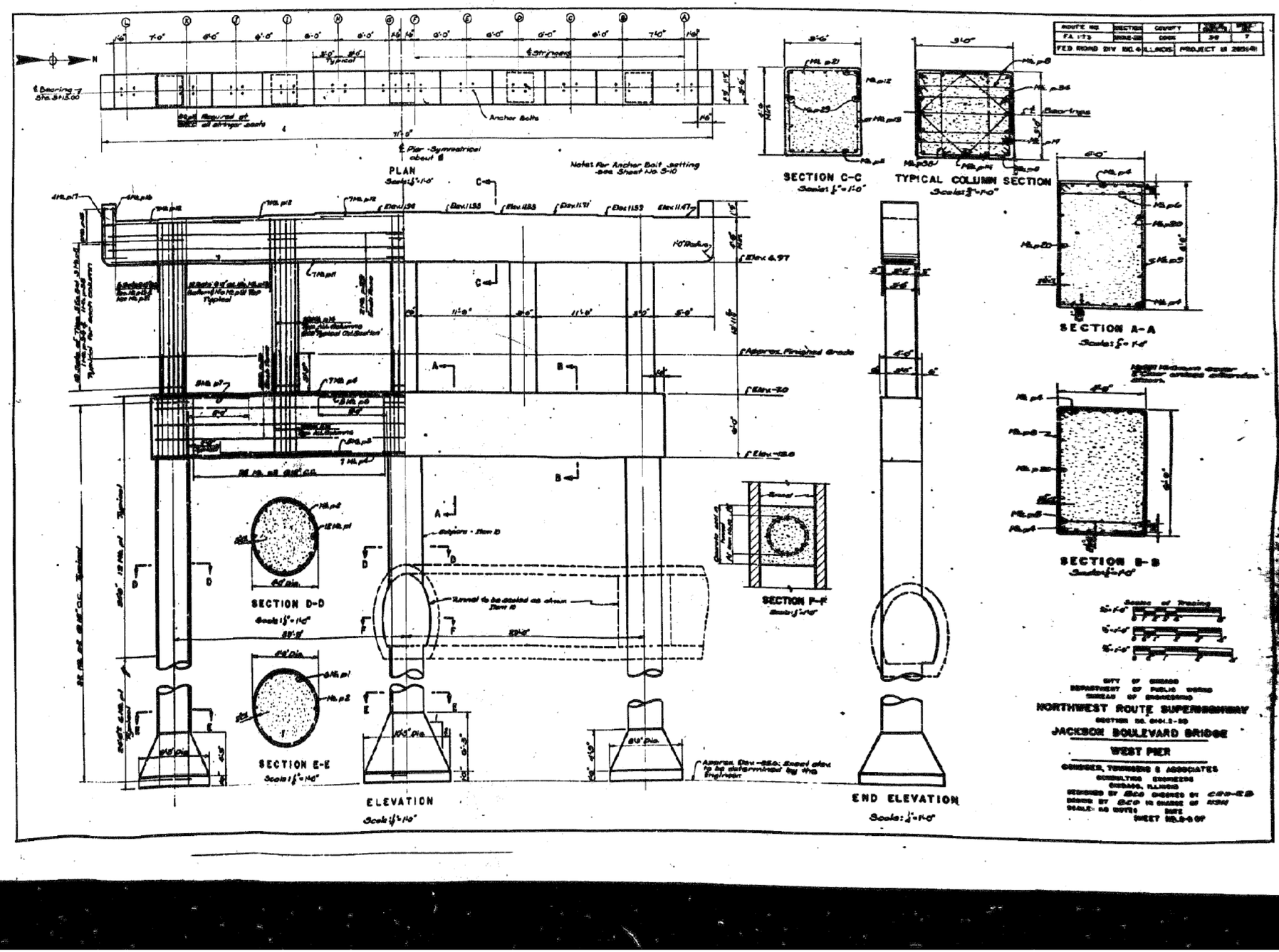
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-52 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	279
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

6/6/52 PM
D162J31 SHT-AS-BUILT-52

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 173	2014-017B	COOK	340	7
FED ROAD DIV NO. 6	ILLINOIS	PROJECT IR 2853(4)		

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PLOT DATE = 8/13/2019	CHECKED WJC		REVISED

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

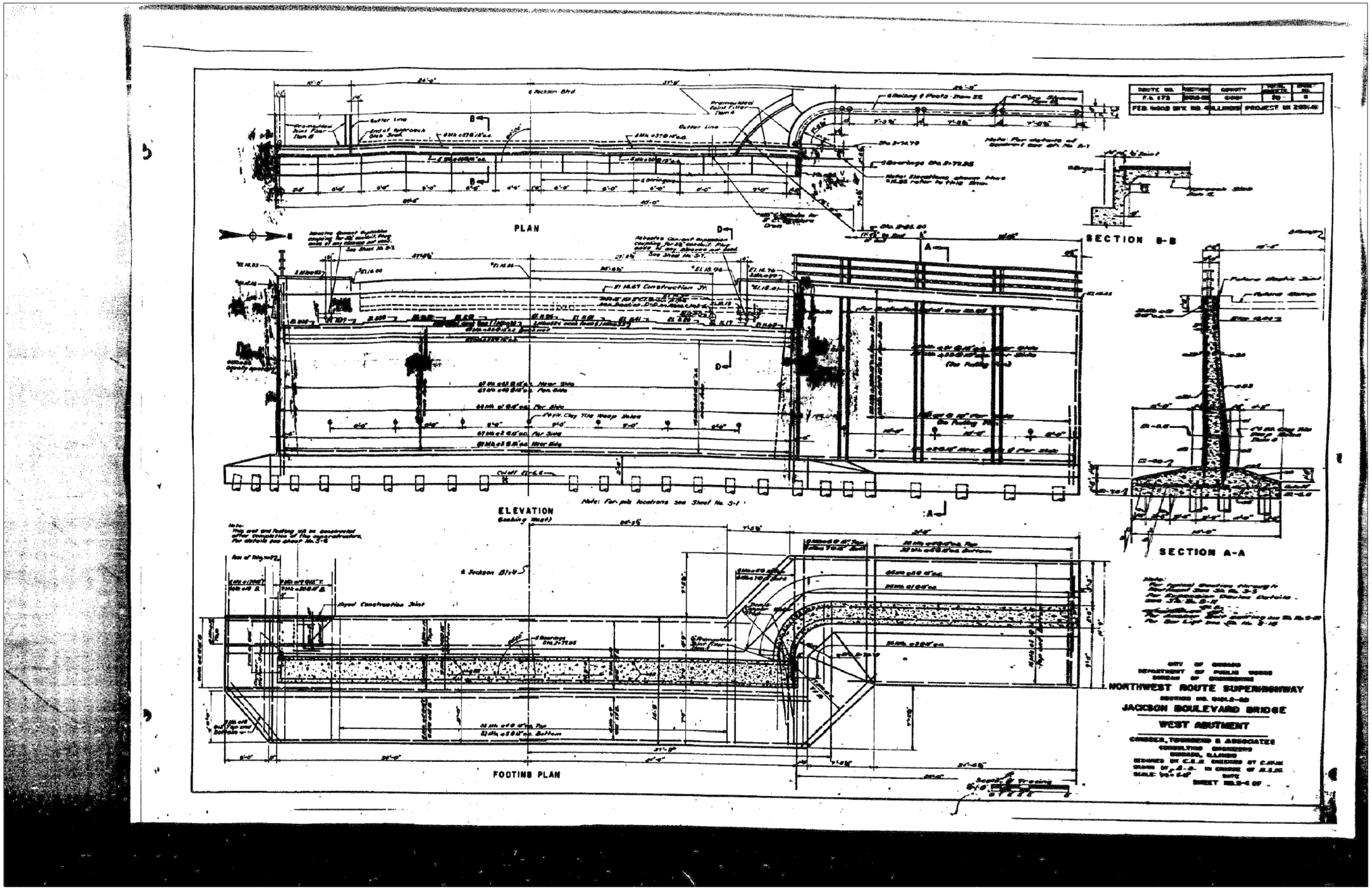
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-53 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	280
			CONTRACT NO. 62J31	
	ILLINOIS	FED. AID PROJECT		

62J31_SHT-AS-BUILT-53
8/13/2019 2:15 PM

FOR INFORMATION ONLY



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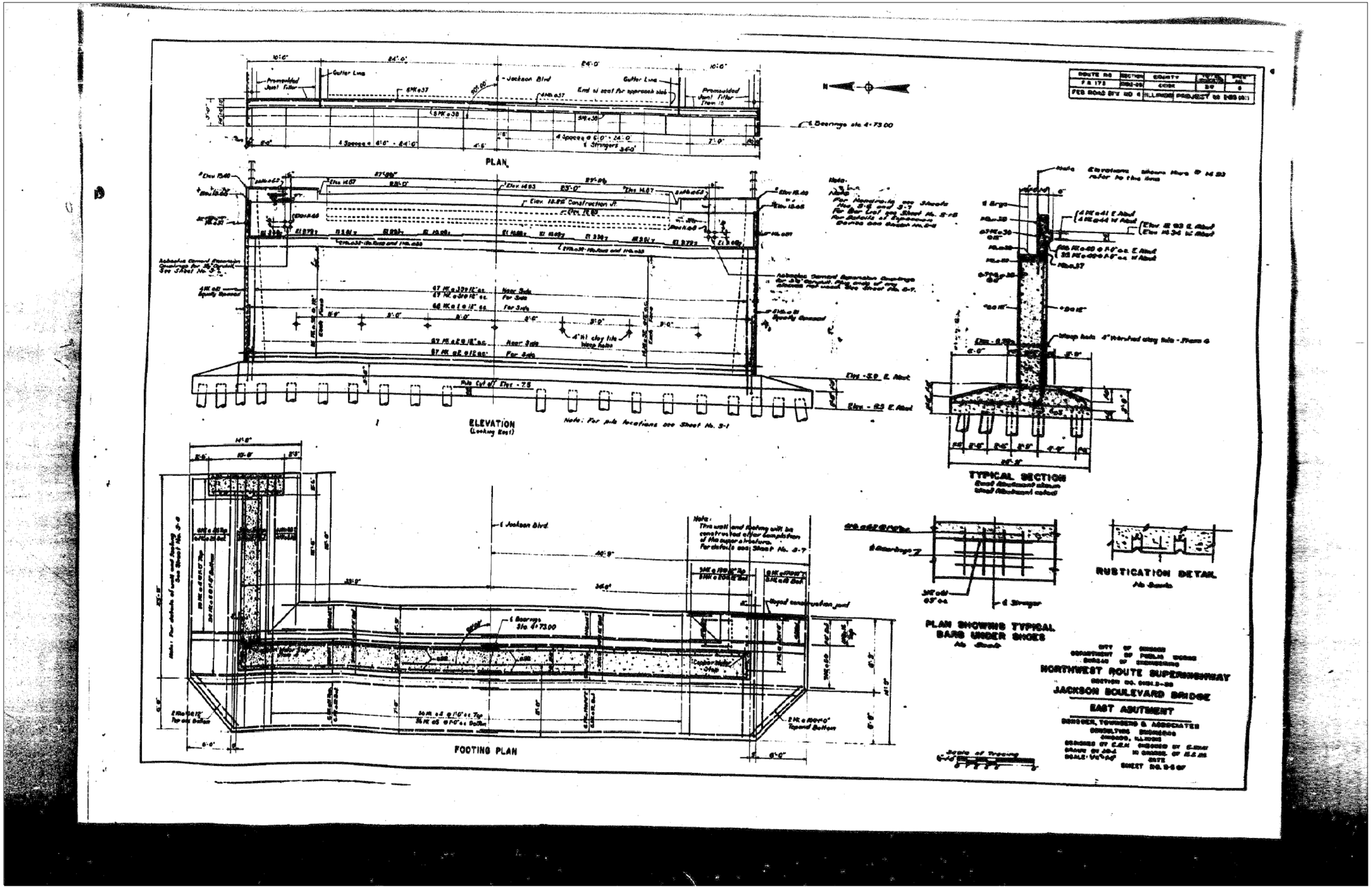
FOR INFORMATION ONLY



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PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-55 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	282
			CONTRACT NO. 62J31	
	ILLINOIS FED. AID PROJECT			

6/5/2019 PM
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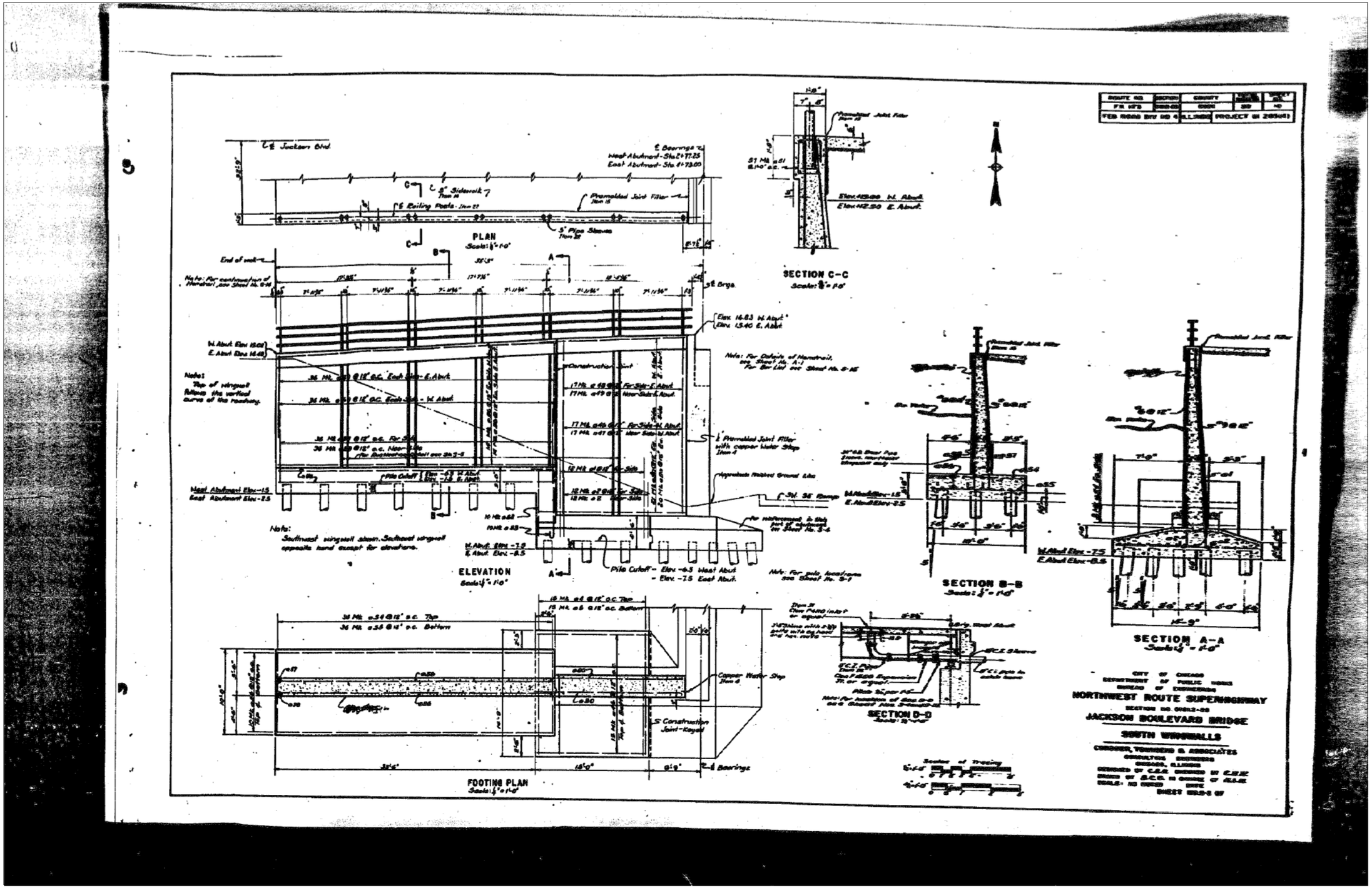
FOR INFORMATION ONLY



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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

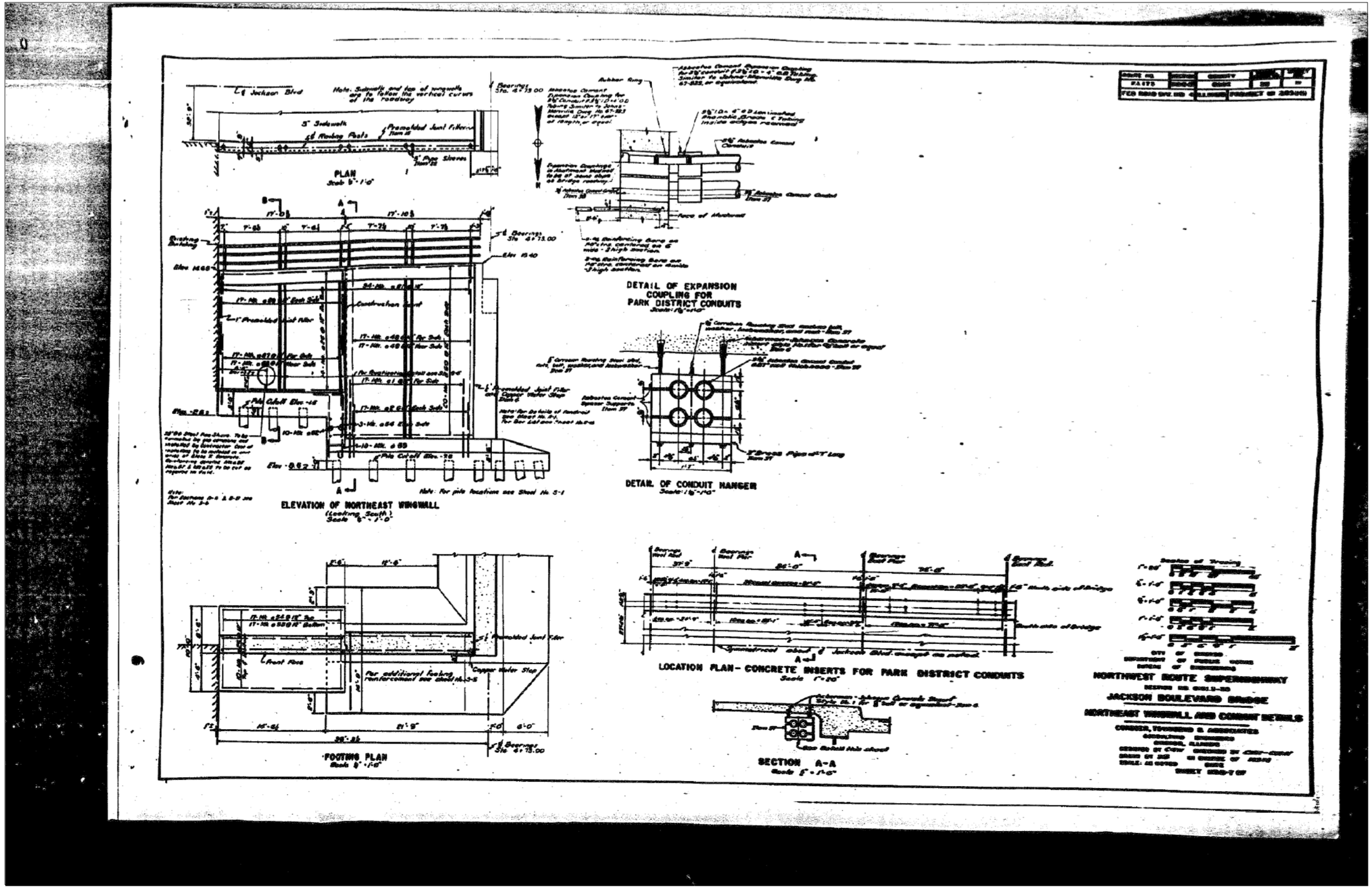
EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-56 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	283
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

61582-21 PW
D1623J1_SHT-AS-BUILT-56

FOR INFORMATION ONLY



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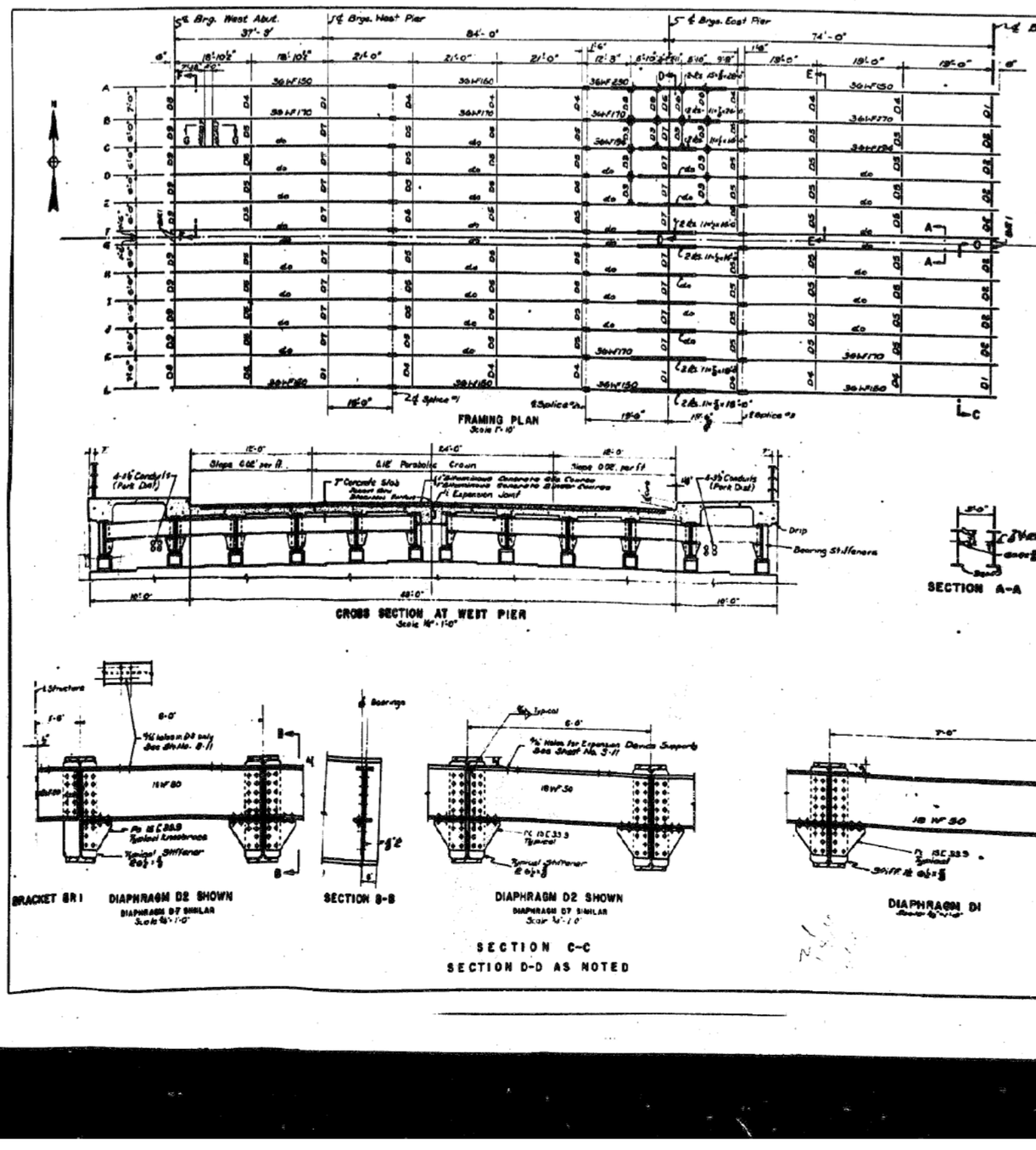
FOR INFORMATION ONLY



FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 173	2K13-2RS	COOK	38	48
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT IR 265 (4)		

BRACKET BR1

DIAPHRAGM D9

SECTION A-A

SECTION F-F

DIAPHRAGM D8

DIAPHRAGM D5

SECTION B-B

SECTION E-E

DIAPHRAGM D4

DIAPHRAGM D3

SECTION C-C

DIAPHRAGM D6

SECTION- D-D

COVER PLATE DETAIL

TOP VIEW

ELEVATION

SPLICE DETAIL- 36WF170 TO 36WF170
36WF194 TO 36WF194

TOP VIEW

ELEVATION

SPLICE DETAIL- 36WF170 TO 36WF194

TOP VIEW

ELEVATION

SPLICE DETAIL-36WF150 TO 36WF150

ELEVATION

SPLICE DETAIL-36WF150 TO 36WF230

NOTE :

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY

SECTION NO. 2K13-2RS

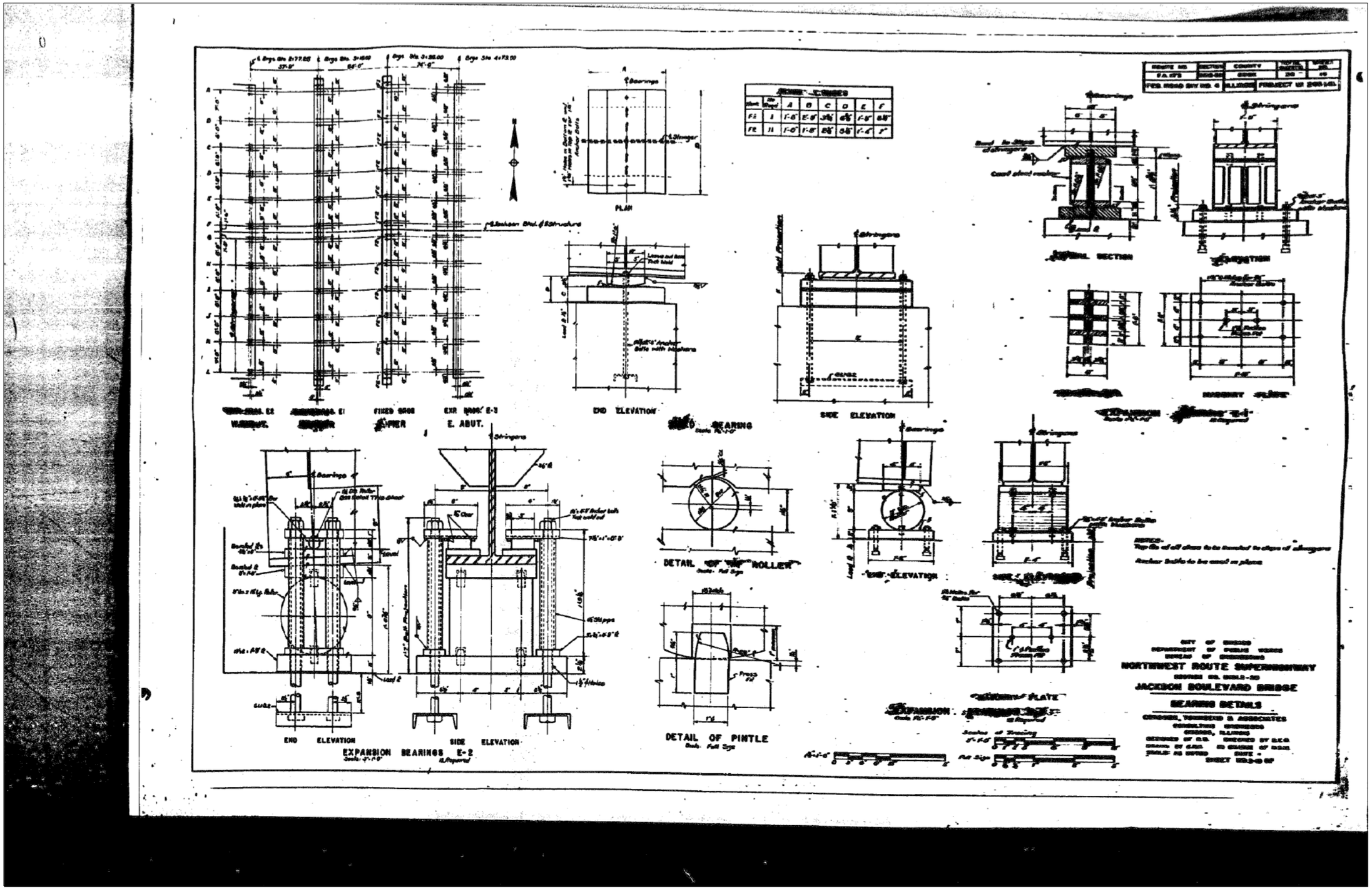
JACKSON BOULEVARD BRIDGE

STRUCTURAL STEEL DETAILS

CONDON, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY C.E.H. CHECKED BY S.C.G.
DRAWN BY C.E.H. IN CHARGE OF H.S.M.
SCALE 1/2" = 1'-0" DATE
SHEET NO. S-6 OF

FOR INFORMATION ONLY



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	CHECKED WJC	REVISED	
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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-60 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	287
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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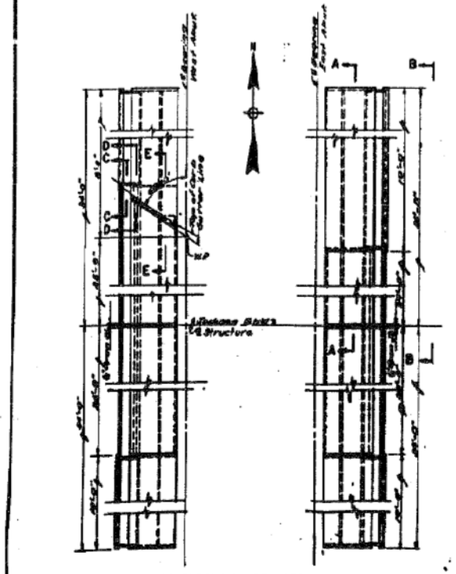
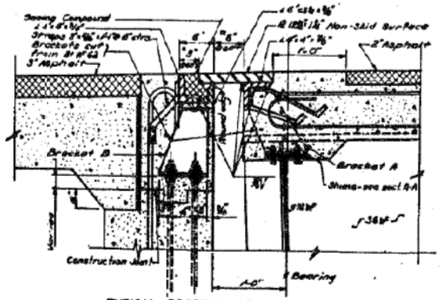
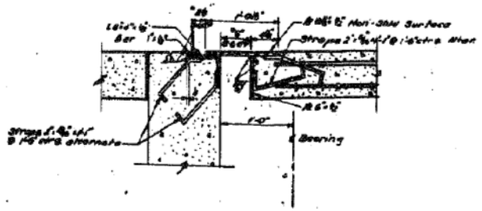
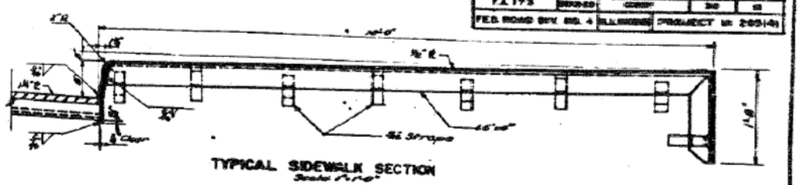
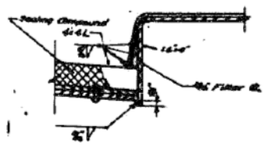
FOR INFORMATION ONLY

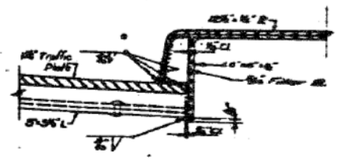


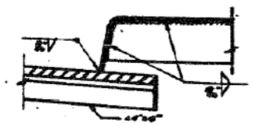


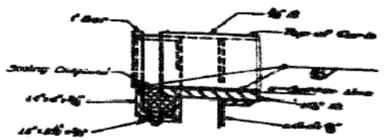


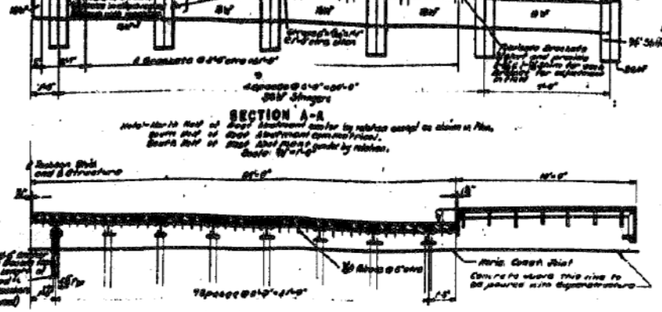


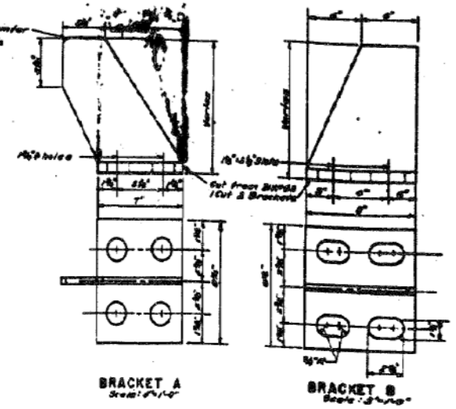


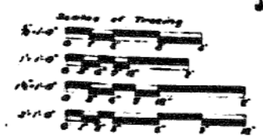


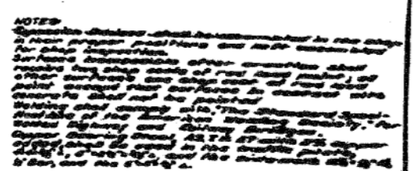












CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY
SECTION CO. 2014-017B

JACKSON BOULEVARD BRIDGE

EXPANSION DEVICE

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY ... DRAWN BY ... CHECKED BY ...
SCALE AS NOTED
DATE
SHEET NO. ... OF ...

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 175	2014-017B	COOK	400	288
FED. ROAD DIV. NO. 4	ILLINOIS	PROJECT NO. 2014(4)		

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	CHECKED WJC	REVISED	
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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	SHEET NO. AB-61 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	288
		CONTRACT NO. 62J31		
ILLINOIS FED. AID PROJECT				

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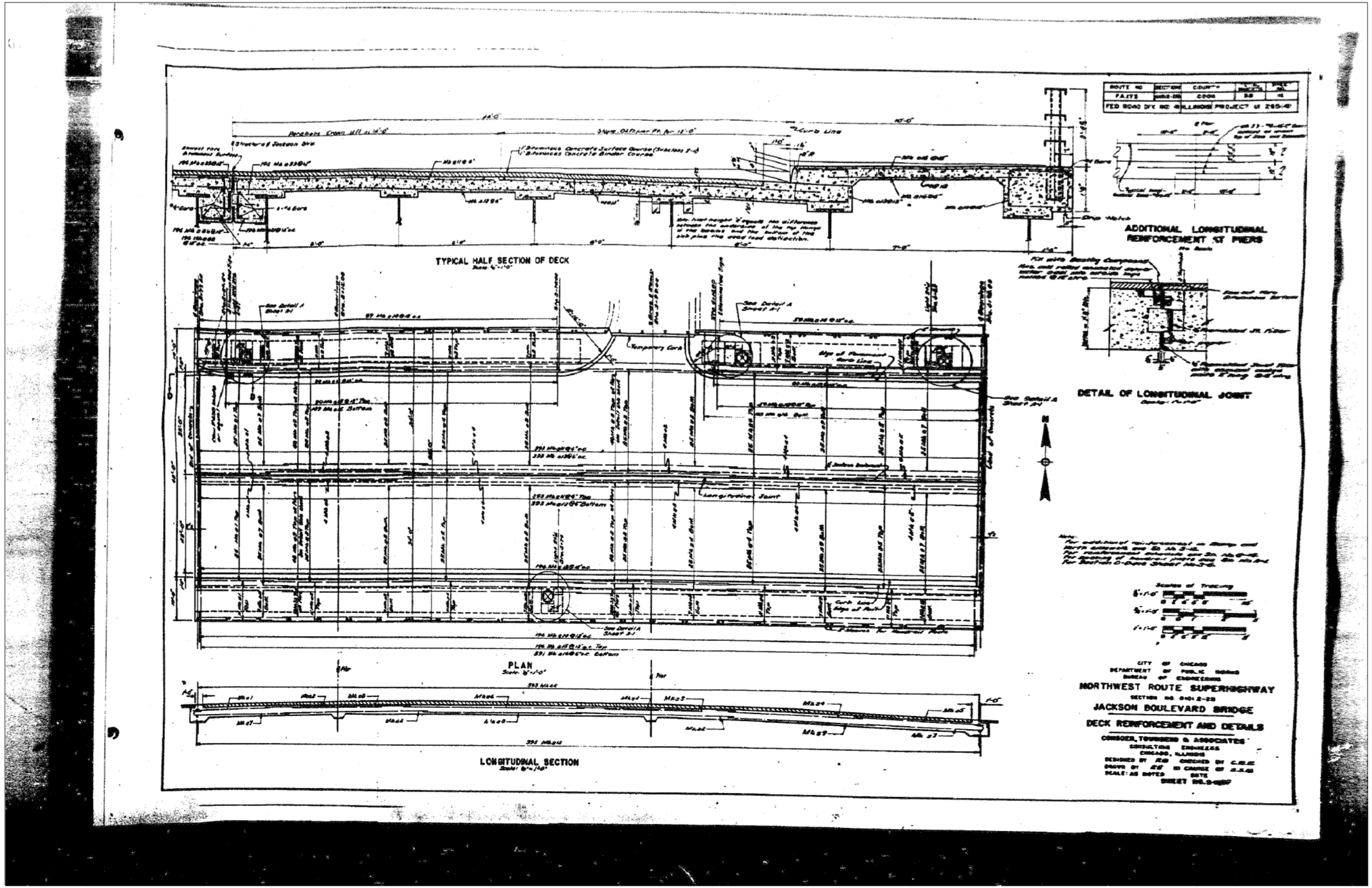
FOR INFORMATION ONLY



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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 172	2014-017B	COOK	30	117
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT NR 2025 (4)		

Note: For location of pipe sleeves for handrail, see sheet No. A-1

Note: For Location and Details of Illuminated Sign Light Standard Manhole see Standard No. 8-8TT-1

PARTIAL PLAN AT EXIT RAMP
Scale 1/8" = 1'-0"

PARTIAL PLAN AT ENTRANCE RAMP
Scale 1/8" = 1'-0"

ELEVATION OF BARRICADE AT ENTRANCE RAMP
Scale 1" = 1'-0"

PLAN OF BARRICADE AND HANDRAIL AT ENTRANCE RAMP
Scale 1" = 1'-0"

SECTION A-A
Scale 1/8" = 1'-0"

SECTION B-B
Scale 1/8" = 1'-0"

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

NORTHWEST ROUTE SUPERHIGHWAY

JACKSON BOULEVARD BRIDGE

SLAB DETAILS AND RAMP BARRICADE

SIEGEL, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY CATW CHECKED BY CWM-SCD
DRAWN BY JDB IN CHARGE OF EDM
SCALE: AS NOTED DATE
SHEET NO. 3 OF 10

USER NAME = wjcolletti	DESIGNED	EH	REVISED	
	CHECKED	WJC	REVISED	
PLOT SCALE = 0:2.0000 '=' / in.	DRAWN	EH	REVISED	
PLOT DATE = 8/13/2019	CHECKED	WJC	REVISED	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-63 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	290
		CONTRACT NO. 62J31		
	ILLINOIS	FED. AID PROJECT		

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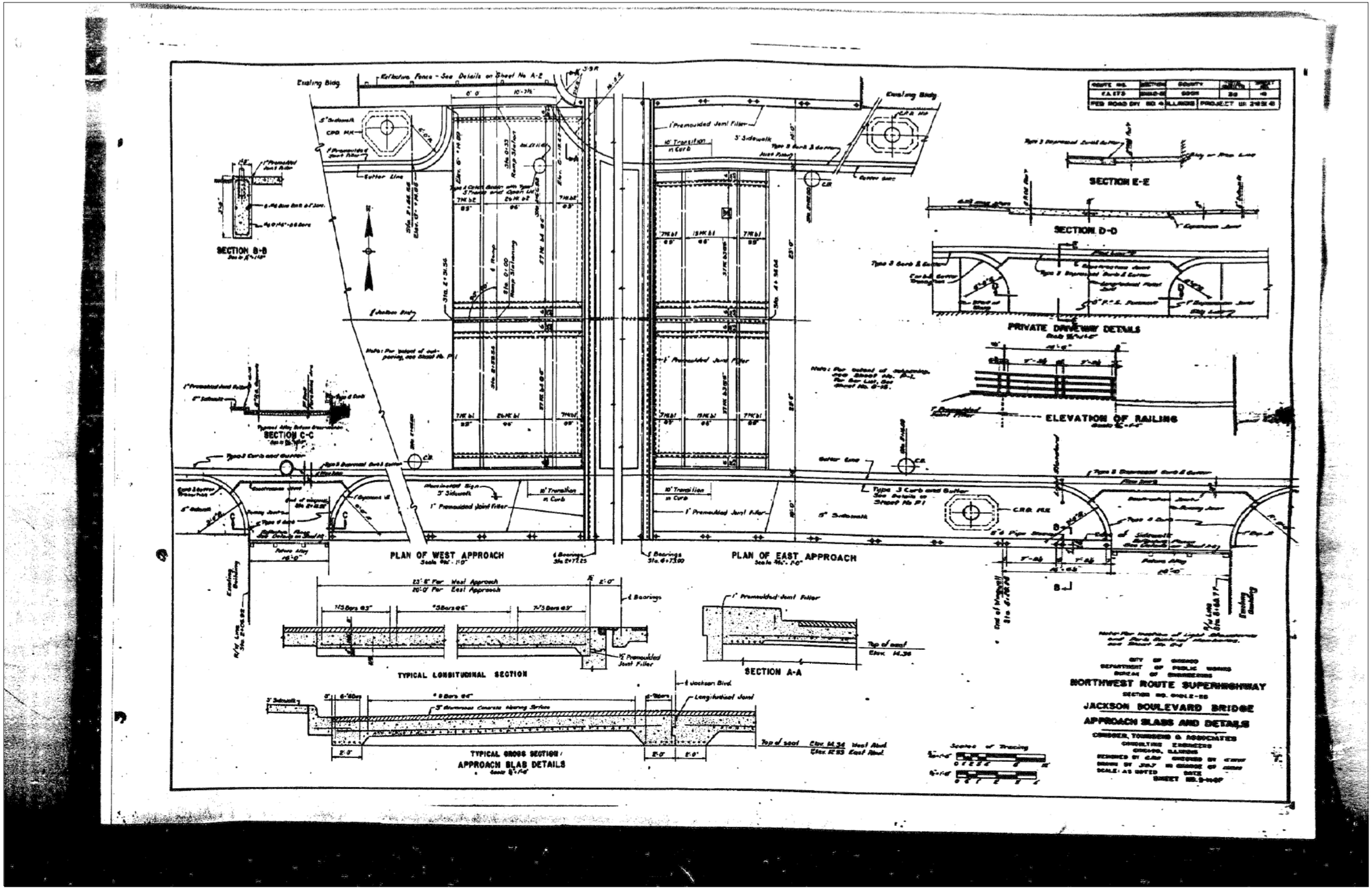
FOR INFORMATION ONLY



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PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-64 OF AB-65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	291
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	ILLINOIS FED. AID PROJECT			

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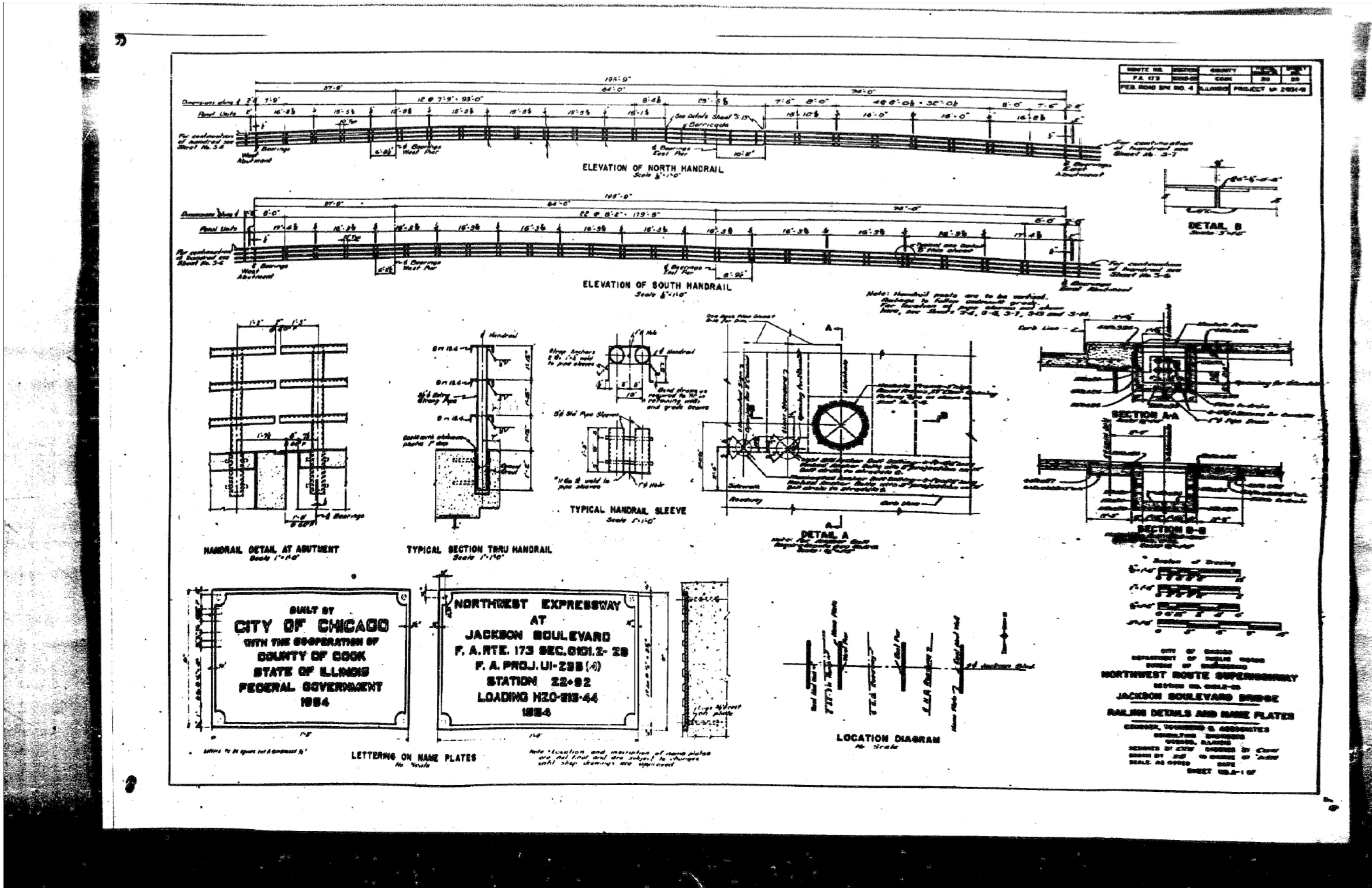
FOR INFORMATION ONLY



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	PLOT DATE = 8/13/2019	CHECKED WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING JACKSON BLVD BRIDGE PLANS (SN 016-0588)

SHEET NO. AB-65 OF AB-65 SHEETS

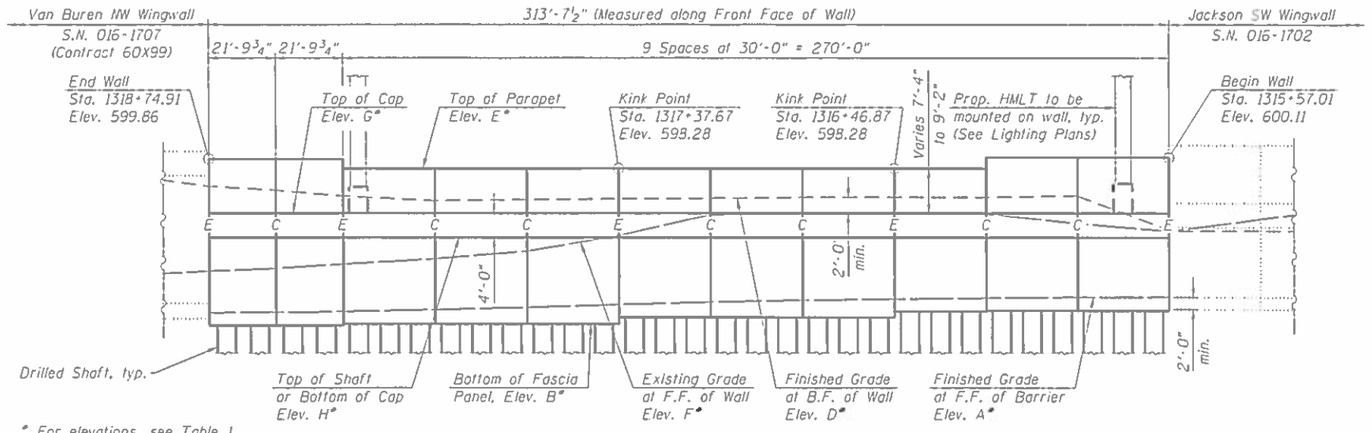
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	400	292
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

7:01:51 PM
D162J31-SHT-AS-BUILT-65

Bench Mark: Cut "X" on southwest balcony of Jackson Blvd. Bridge. Elev. 597.26.

Existing Structure: None.

Traffic is to be maintained during construction.



* For elevations, see Table 1 on Sheet S1-02 of S1-15.

ELEVATION

(Looking West at F.F. of Wall. Proposed Concrete Barrier not shown for clarity.)

Notes:

Wall offsets are measured from the ℄ of Proposed Ramp SW to the front face of cast-in-place fascia panels.
C denotes Construction Joint.
E denotes Expansion Joint.
F.F. denotes Front Face.
B.F. denotes Back Face.

SUGGESTED CONSTRUCTION SEQUENCE

1. Construct drilled shaft 1 thru 31.
2. Construct Temporary Soil Retention System.
3. Construct drilled shaft cap & parapet.
4. Remove Temporary Soil Retention System.
5. Excavate in front of shafts to Finished grade, installing lagging system in the process.
6. Construct concrete fascia panel and install drainage in front of the wall.
7. Backfill behind wall to finished grade.

CURVE DATA

(Ramp SW)

Prop. Curve P-CIR-SW-3
P.I. Sta. = 1322+16.98
Δ = 83° 35' 08" (RT)
D = 10° 03' 07"
R = 570.00'
T = 509.51'
L = 831.54'
E = 194.53'
e = 5.40%
T.R. = NA
S.E. Run = 101'
P.C. Sta. = 1317+07.47
P.T. Sta. = 1325+39.01

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

DESIGN STRESSES

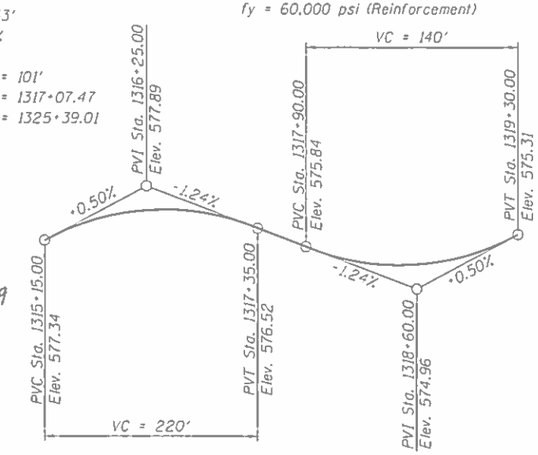
FIELD UNITS

f'c = 7,000 psi (Drilled Shafts)
f'c = 3,500 psi (All other concrete)
fy = 60,000 psi (Reinforcement)

MATTHEW D. SANTEFORD 081-007244 LICENSED STRUCTURAL ENGINEER OF STATE OF ILLINOIS

08-27-2019

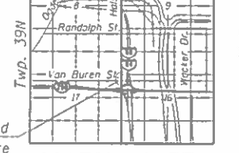
MATTHEW D. SANTEFORD, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2020



PROFILE GRADE

(Along ℄ Ramp SW)

Range 14E. 3rd P.M.

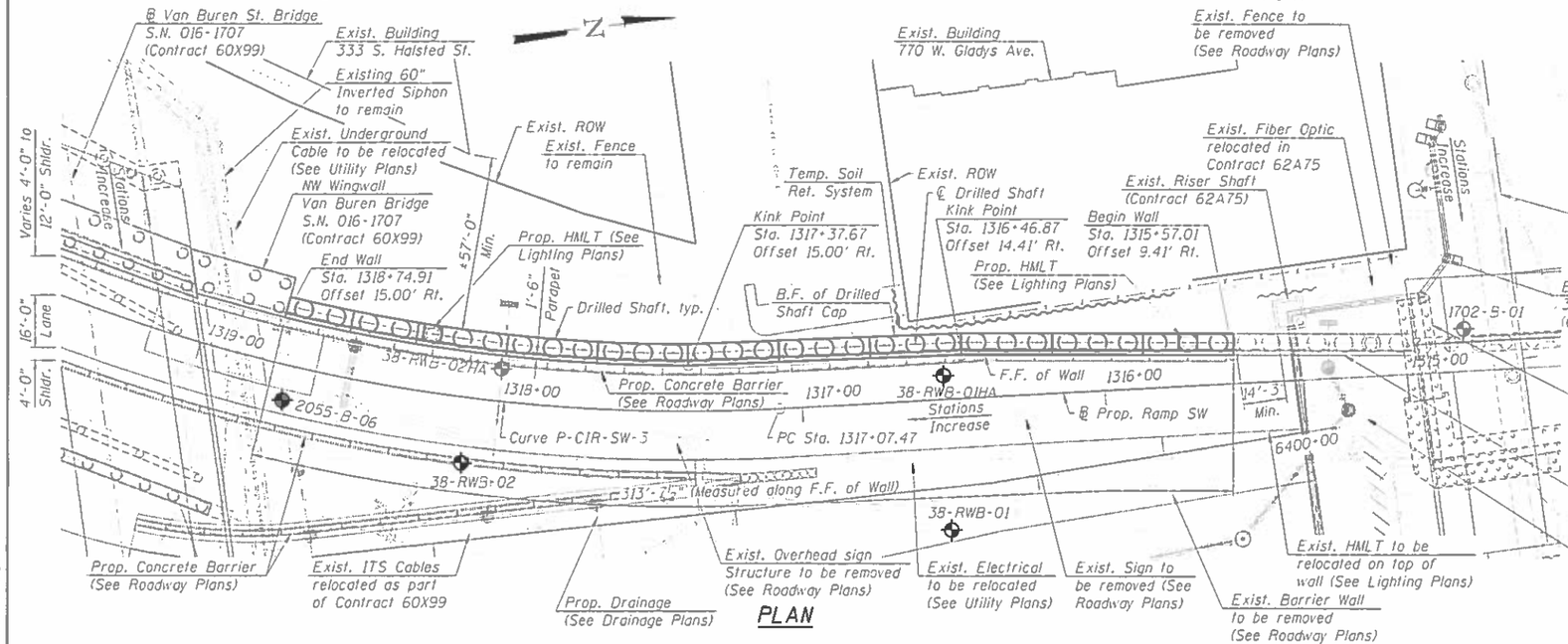


LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LEGEND:

Ex. Chain Link Fence	— x —	Soil Boring	⊕
Combined Sewer	→→→→→→	Existing Catch Basin	○
Electric	—E—	Proposed Catch Basin	●
Water	—W—	Existing Manhole	◎
Fiber Optic	—FO—	Proposed Inlet	▬
Ex. Storm Sewer			
Prop. Storm Sewer			



GENERAL PLAN AND ELEVATION
RETAINING WALL 38 ALONG RAMP SW
F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY)
SECTION 2019-054-I
COOK COUNTY
STATION 1315+57.01 TO STATION 1318+74.91
STRUCTURE NO. 016-1827

USER NAME = AJOHNKEL	DESIGNED - KRS	REVISED -	
	CHECKED - DJG	REVISED -	
PLOT SCALE = 48.00 '/ in.	DRAWN - AJD	REVISED -	
PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S1-01 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	293
		CONTRACT NO.	62J31	
		ILLINOIS FED. AID PROJECT		

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GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building foundations. Any damage during construction shall be repaired by the Contractor at his expense and no charge to the department. Driving piles and temporary sheet piling is not allowed.
3. The Contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provisions for Construction Vibration Monitoring and Monitoring Adjacent Structures, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/ construction activities to satisfy these requirements. See Contract Special Provisions for details.
4. Drilled shaft construction above existing grade shall not be paid separately but shall be included with Drilled Shaft in Soil.
5. Slipforming of parapets is not allowed.
6. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor.
7. Concrete for the Drilled Shafts shall be in accordance with Section 516 of Standard Specifications and shall have the minimum compressive strength of 7,000 psi prior to excavation in front of shafts and installation of lagging system.
8. Wall to be built along straight chords between construction and expansion joints.
9. Concrete Sealer shall be applied to the exposed top, front, and back faces of the parapet, and to the exposed front faces of cap and fascia panels.
10. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.
11. The Contractor shall take all necessary precautions not to contaminate groundwater during the drilled shaft construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from the Contractor's means and methods. No additional cost will be paid for this effort.
12. Due to the squeeze potential of the clay soils, the use of temporary casing will be required to properly construct the shafts. Casing may be pulled or remain in place, as determined by the Contractor at no cost to the Department.
13. The contractor shall coordinate the construction of the proposed structure with the construction of the Proposed Bridge and Southwest Wingwall of the Jackson Blvd. Bridge. See MOT plan sheets and special provisions, including the Available Work Areas and Sequencing Requirements special provision, for additional construction and coordination requirements.

STATION 1315+57.01 TO 1318+74.91
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 290 SEC. 2019-054-I
LOADING HL-93
STR. NO. 016-1827

NAME PLATE
See Std. 515001

INDEX OF SHEETS

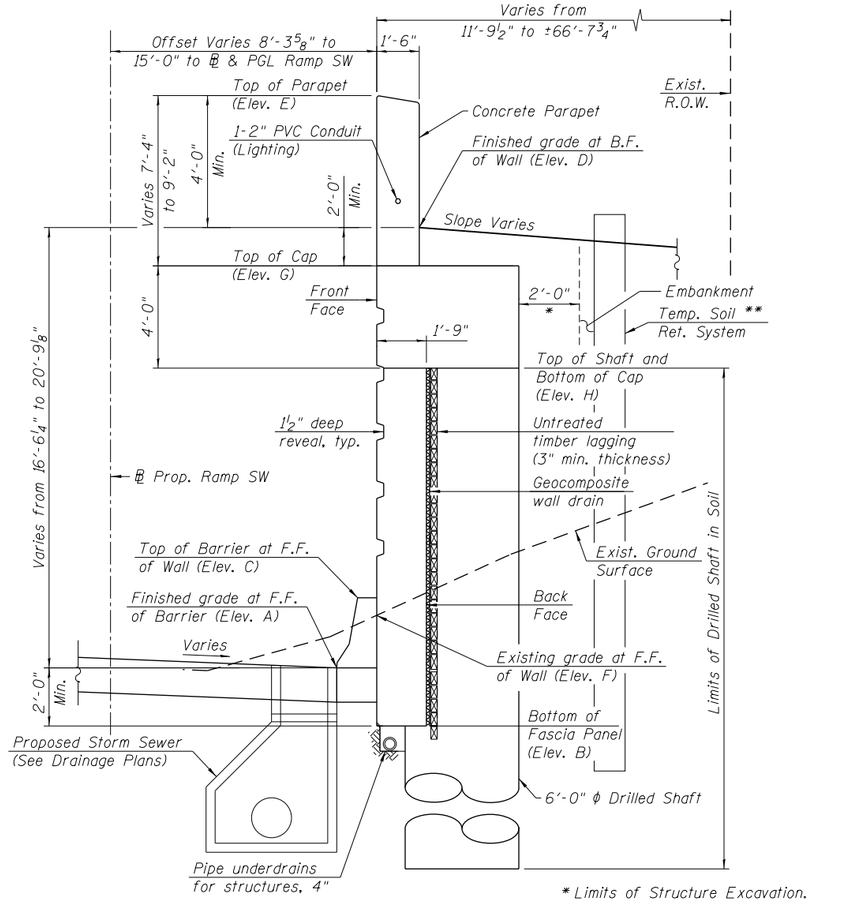
TOTAL BILL OF MATERIAL

Item	Unit	Total Quantity
Structure Excavation	Cu. Yd.	783
Concrete Structures	Cu. Yd.	325.3
Concrete Superstructure	Cu. Yd.	144.6
Reinforcement Bars	Pound	572,630
Reinforcement Bars, Epoxy Coated	Pound	28,730
Mechanical Splicers	Each	744
Name Plates	Each	1
Drilled Shaft in Soil	Cu. Yd.	2,434.8
Temporary Soil Retention System	Sq. Ft.	393
Concrete Sealer	Sq. Ft.	9,454
Class SI Concrete (Miscellaneous)	Cu. Yd.	237.1
Crosshole Sonic Logging Access Ducts	Foot	2,325
Crosshole Sonic Logging Testing	Each	7
Slope Inclinometer	Each	1
Bonded Preformed Joint Sealer, 2"	Foot	28
Pipe Underdrains for Structures 4"	Foot	314

TABLE 1 - WALL ELEVATIONS

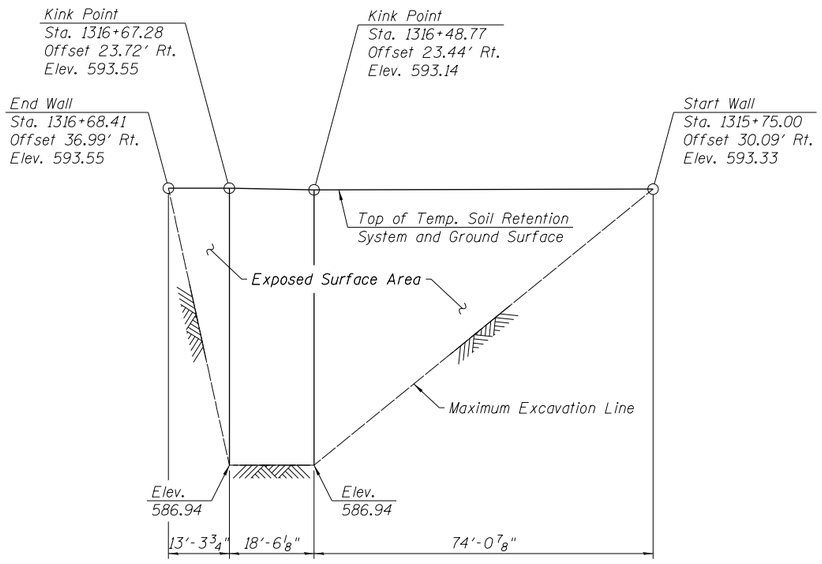
	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
	1315+57.01	9.41' Rt.	577.18	574.94	580.68	588.61	600.11	587.97	590.94	586.94
	1315+86.97	11.08' Rt.	577.13	574.94	580.63	593.80	600.11	589.25	590.94	586.94
†	1316+16.92	12.75' Rt.	577.01	574.94	580.51	593.53	600.11	590.77	590.94	586.94
††	1316+16.92	12.75' Rt.	577.01	574.78	580.51	593.53	598.28	590.77	590.94	586.94
	1316+46.87	14.41' Rt.	576.83	574.78	580.33	593.53	598.28	590.95	590.94	586.94
	1316+76.87	14.87' Rt.	576.63	573.86	580.13	594.28	598.28	590.90	590.94	586.94
	1317+06.87	15.32' Rt.	576.36	573.86	579.86	594.28	598.28	590.65	590.94	586.94
	1317+37.67	15.00' Rt.	575.91	573.86	579.41	593.29	598.28	587.24	590.94	586.94
	1317+68.48	15.00' Rt.	575.46	572.78	578.96	593.15	598.28	584.69	590.94	586.94
	1317+99.29	15.00' Rt.	575.08	572.78	578.58	592.97	598.28	583.44	590.94	586.94
†	1318+30.10	15.00' Rt.	574.79	572.78	578.29	593.75	598.28	582.56	590.94	586.94
††	1318+30.10	15.00' Rt.	574.79	572.53	578.29	593.75	599.86	582.56	590.94	586.94
	1318+52.51	15.00' Rt.	574.65	572.53	578.15	594.68	599.86	581.85	590.94	586.94
	1318+74.91	15.00' Rt.	574.58	572.53	578.08	595.86	599.86	581.41	590.94	586.94

Elevation A- Finished Grade at Front Face of Barrier
Elevation B- Bottom of Fascia Panel
Elevation C- Top of Barrier at Front Face of Wall
Elevation D- Finished Grade at Back Face of Wall
Elevation E- Top of Parapet
Elevation F- Existing Grade at Front Face of Wall
Elevation G- Top of Cap
Elevation H- Top of Shaft / Bottom of Cap
† Elevations just to the right of joint
†† Elevations just to the left of joint



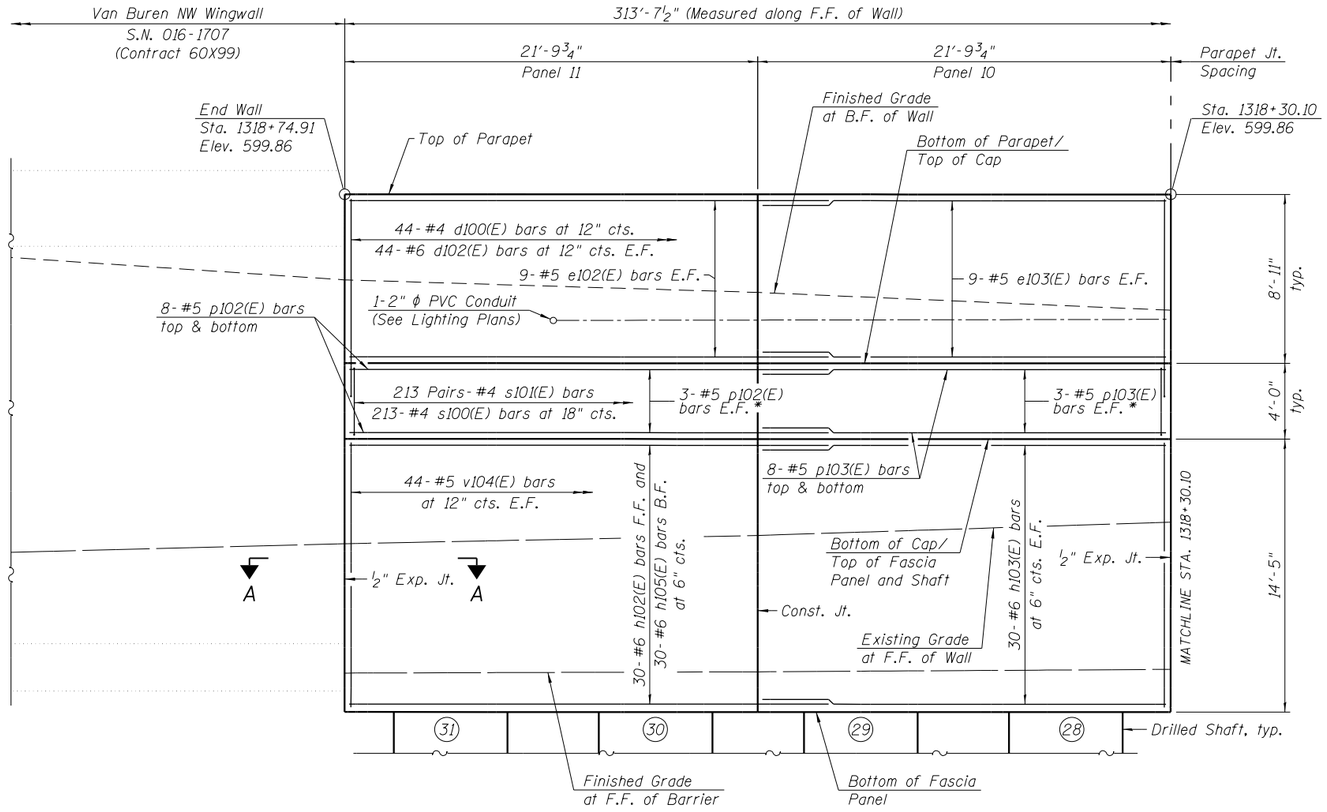
TYPICAL CROSS SECTION
(Looking Upstation)

* Limits of Structure Excavation.
** See Sheet S1-03 of S1-15 for Limits of Temporary Soil Retention System.



TEMPORARY SOIL RETENTION SYSTEM - ELEVATION

(Unfolded View, Measured along F.F. of Wall)

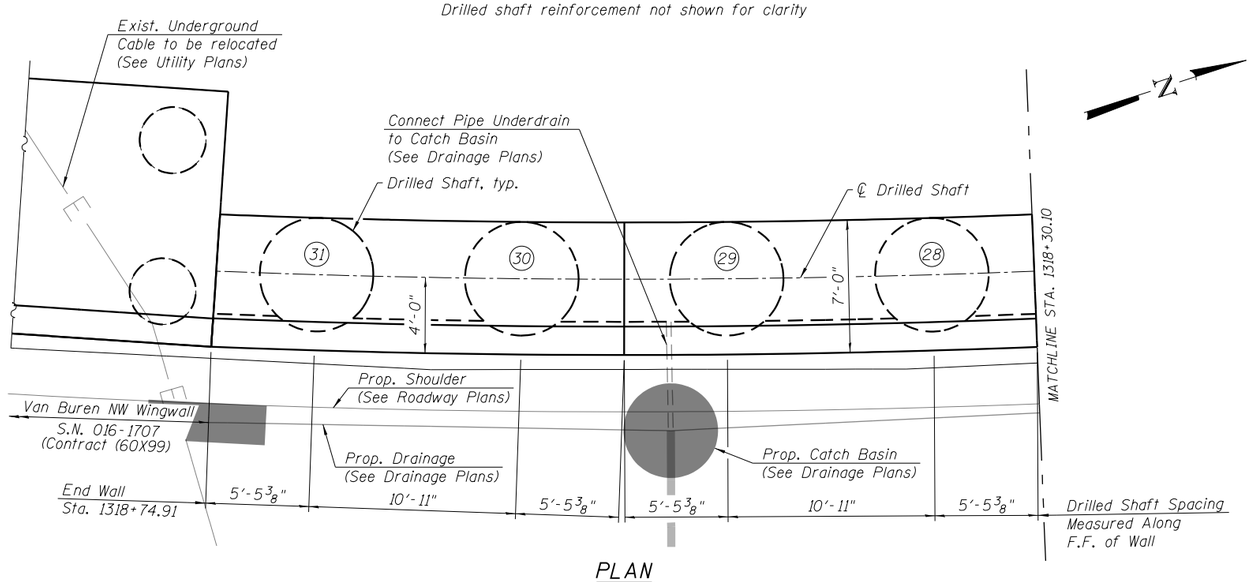


* Spaced evenly between shown bars.

WALL ELEVATION

(Looking West)

Drilled shaft reinforcement not shown for clarity



PLAN

(Parapet and cap reinforcement not shown for clarity)

Notes:

Work this sheet with Sheets S1-03 to S1-09 of S1-15.

F.F. = Front Face

B.F. = Back Face

E.F. = Each Face

Parapet concrete shall be paid for as Concrete Superstructure.

Shaft Cap shall be paid for as Concrete Structures.

Concrete fascia panels shall be paid as Class SI Concrete (Miscellaneous).

Drilled Shafts shall be tested in accordance with Special Provision for Crosshole Sonic Logging Testing of Drilled Shafts.

See Drilled Shaft Layout Table on Sheet S1-09 of S1-15.

See Sheet S1-10 of S1-15 for details on architectural reveals and joint between cap and fascia panels.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Tran Systems

USER NAME = AJDINKEL	DESIGNED - KRS	REVISED -
	CHECKED - DJG	REVISED -
PLOT SCALE = 0.2 '/ in.	DRAWN - AJD	REVISED -
PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION 1
RETAINING WALL 38 (STRUCTURE NO. 016-1827)
SHEET NO. S1-03 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	295
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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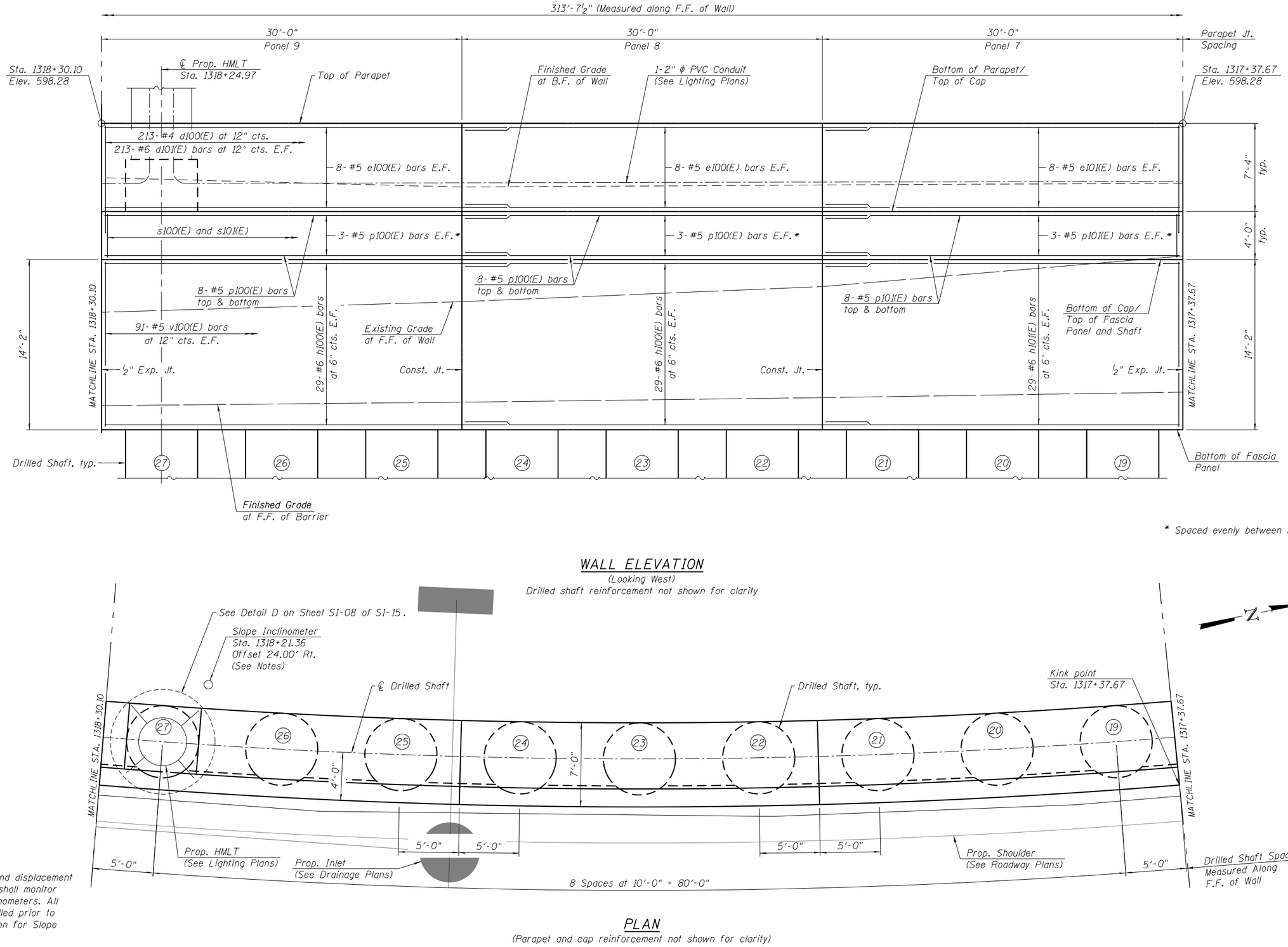

* Spaced evenly between shown bars.

WALL ELEVATION

(Looking West)

Drilled shaft reinforcement not shown for clarity

Notes:

F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
See additional notes on Sheet S1-03 of S1-15.

In addition to vibration and displacement monitoring, the Contractor shall monitor movements with Slope Inclinometers. All inclinometers shall be installed prior to drilling. See special provision for Slope Inclinometers.

PLAN

(Parapet and cap reinforcement not shown for clarity)

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	PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION 2
RETAINING WALL 38 (STRUCTURE NO. 016-1827)
SHEET NO. S1-04 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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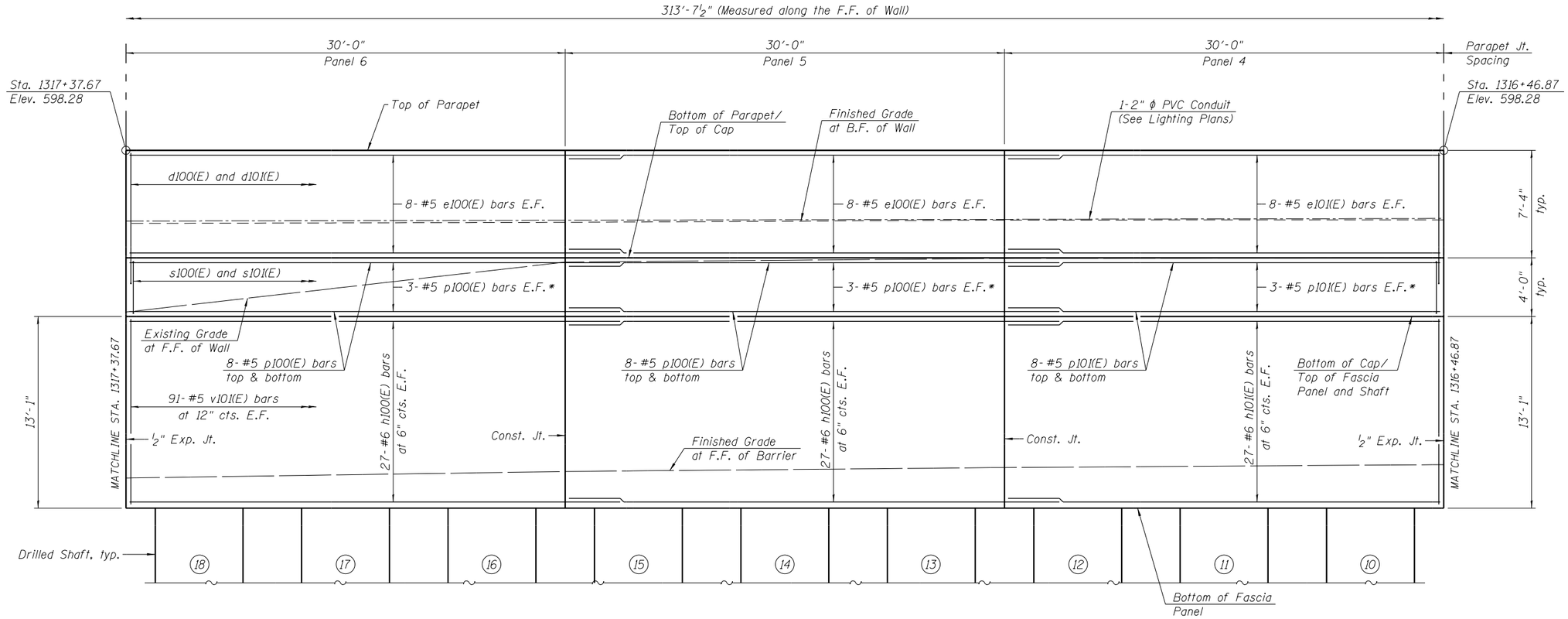
		ILLINOIS FED. AID PROJECT		

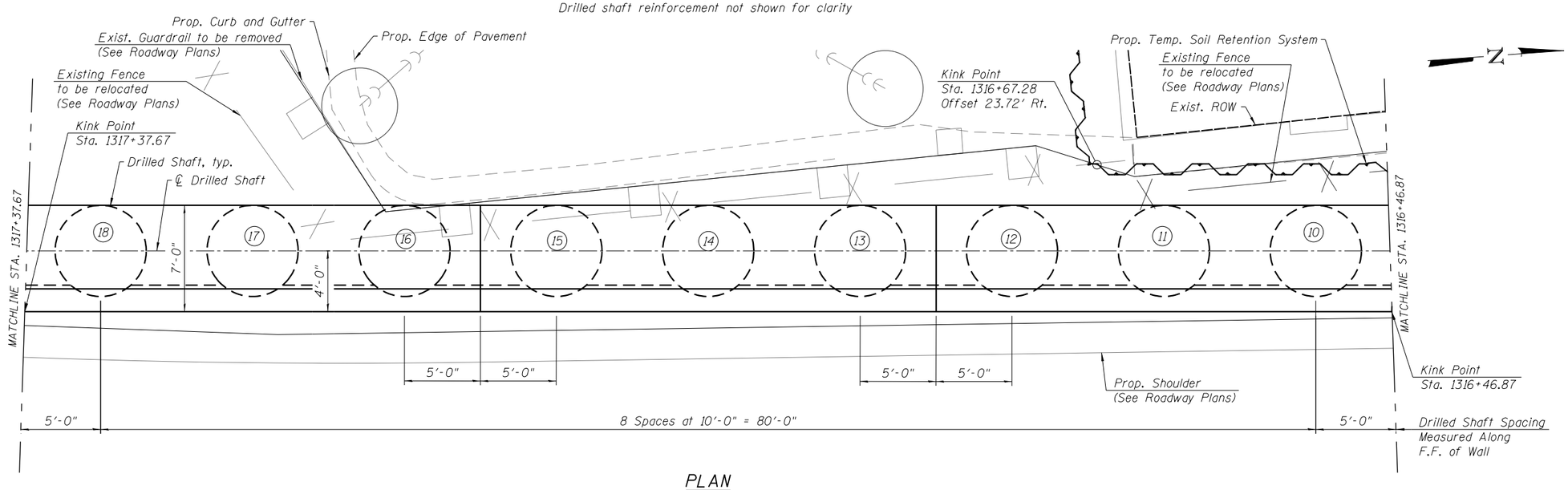


WALL ELEVATION

(Looking West)

Drilled shaft reinforcement not shown for clarity

* Spaced evenly between shown bars.



PLAN

(Parapet and cap reinforcement not shown for clarity)

Notes:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
See additional notes on Sheet S1-03 of S1-15.

TranSystems	USER NAME = AJDINKEL	DESIGNED - KRS	REVISED -
		CHECKED - DJG	REVISED -
	PLOT SCALE = 0.1667 ' / in.	DRAWN - AJD	REVISED -
	PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION 3
RETAINING WALL 38 (STRUCTURE NO. 016-1827)
SHEET NO. S1-05 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	297
		CONTRACT NO. 62J31		
		ILLINOIS FED. AID PROJECT		

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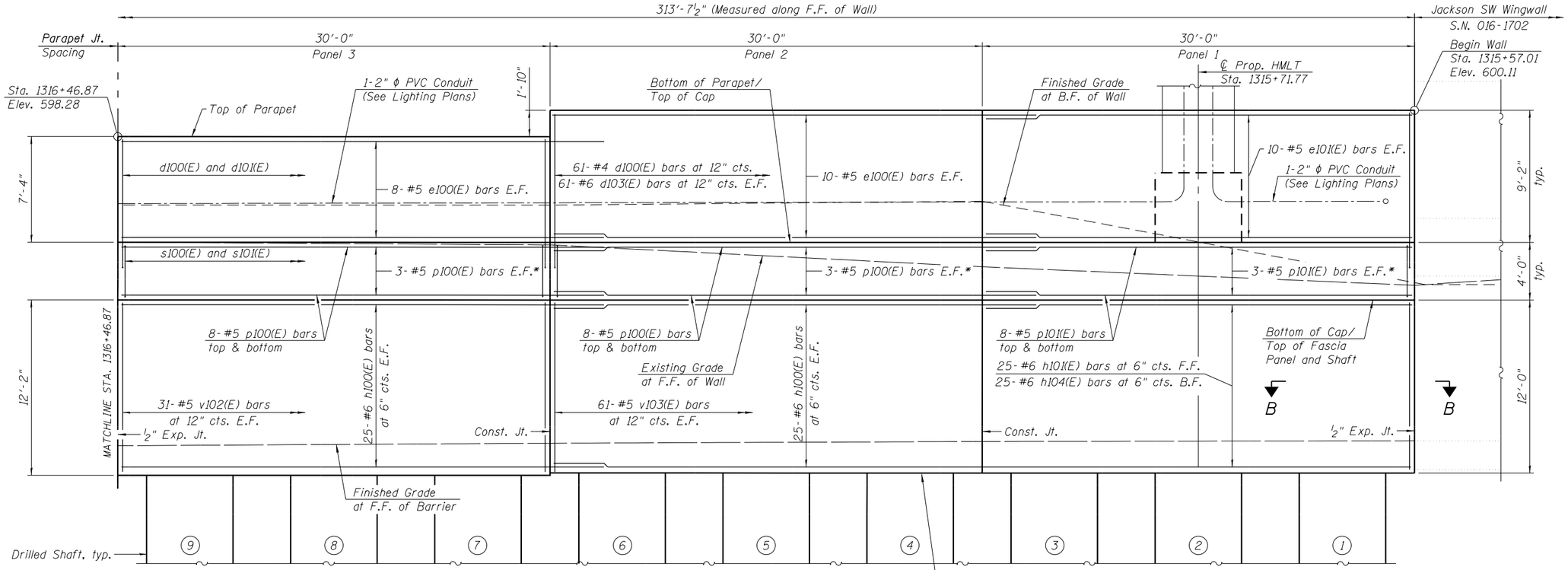
016827-62J31-S005-ElevDetails_3.dgn

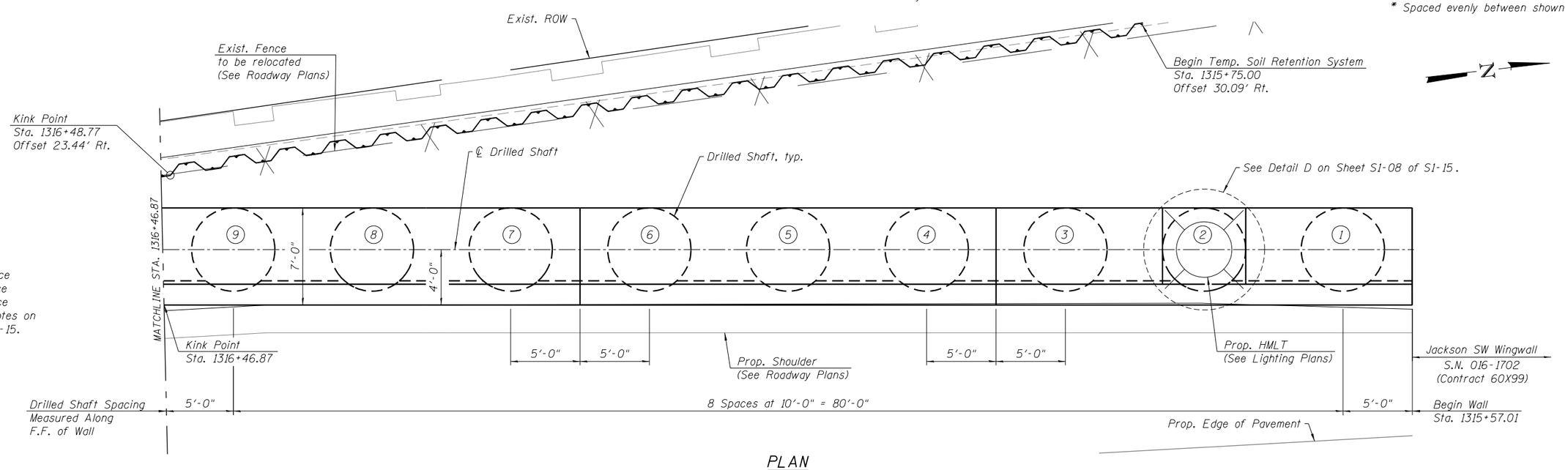


WALL ELEVATION

(Looking West)

Drilled shaft reinforcement not shown for clarity

* Spaced evenly between shown bars.



PLAN

(Parapet and cap reinforcement not shown for clarity)

Notes:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
See additional notes on Sheet S1-03 of S1-15.

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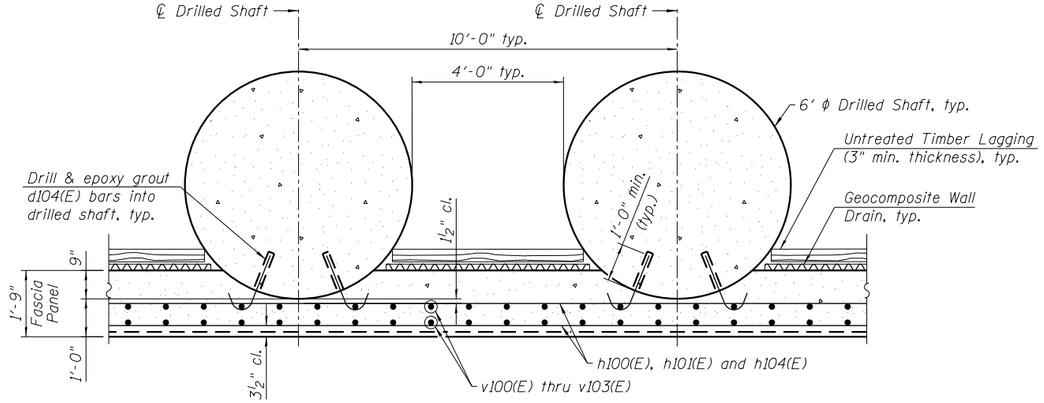
016827-62J31-S006-ElevDetails_4.dgn

TranSystems	USER NAME = AJDINKEL	DESIGNED - KRS	REVISED -
		CHECKED - DJG	REVISED -
	PLOT SCALE = 0.1667 '/ in.	DRAWN - AJD	REVISED -
	PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

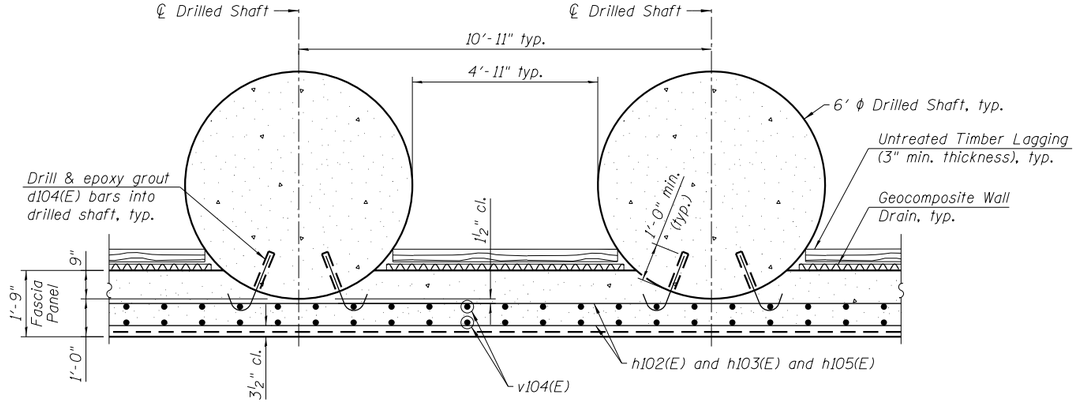
PLAN AND ELEVATION 4
RETAINING WALL 38 (STRUCTURE NO. 016–1827)
SHEET NO. S1-06 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	298
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



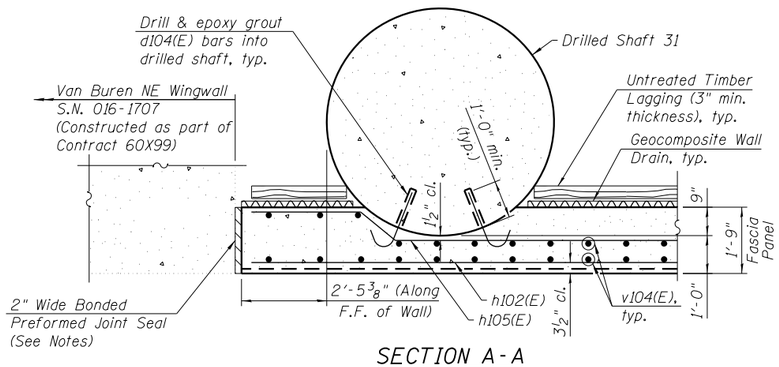
TYPICAL WALL SECTION - PANELS 1-9

(Shaft reinforcement not shown for clarity)



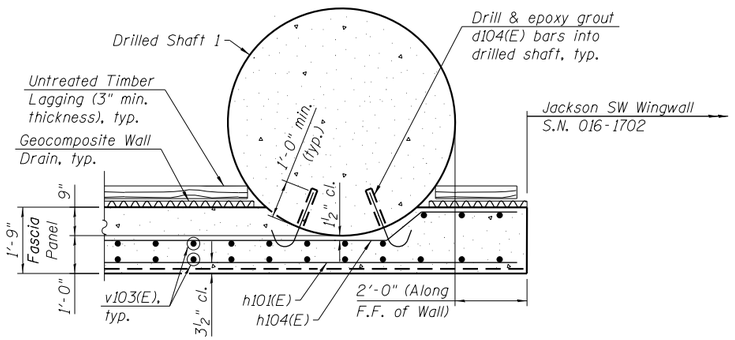
TYPICAL WALL SECTION - PANELS 10-11

(Shaft reinforcement not shown for clarity)



SECTION A-A

(Shaft reinforcement not shown for clarity)



SECTION B-B

(Shaft reinforcement not shown for clarity)

Notes:

F.F. = Front Face.
B.F. = Back Face.
E.F. = Each Face.
Work this sheet with Sheets S1-03 thru S1-06 of S1-15.
The 2 inch gap between the new structure and the existing wingwall is a nominal dimension and shall be field verified prior to ordering the bonded preformed joint seal. See supplemental specification for Bonded Preformed Joint Seal for additional placement requirements.
Install lagging and Geocomposite Wall Drain from top down as excavation proceeds. Minimize over-excavation and backfill voilds with dry loose sand. Cost included with Class SI Concrete (Miscellaneous).
The Contractor is responsible for the design and performance of the lagging system, the deflection of the lagging shall be limited to 1" maximum using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for the attachment of the lagging to the shaft for approval by the Engineer. Alternative equivalent systems may be submitted for approval by the Engineer. Cost included with Class SI Concrete (Miscellaneous).

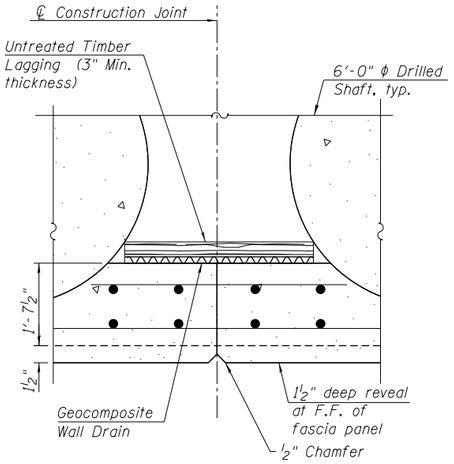
TranSystems

USER NAME = AJDINKEL	DESIGNED - KRS	REVISED -
	CHECKED - DJG	REVISED -
PLOT SCALE = Ø.2 '/ in.	DRAWN - AJD	REVISED -
PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

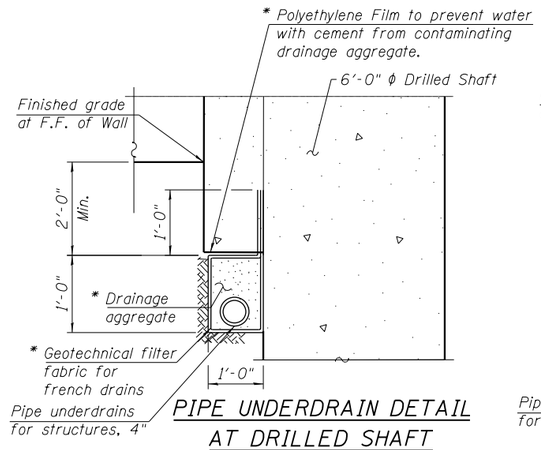
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS 1
RETAINING WALL 38 (STRUCTURE NO. 016-1827)
SHEET NO. S1-07 OF S1-15 SHEETS

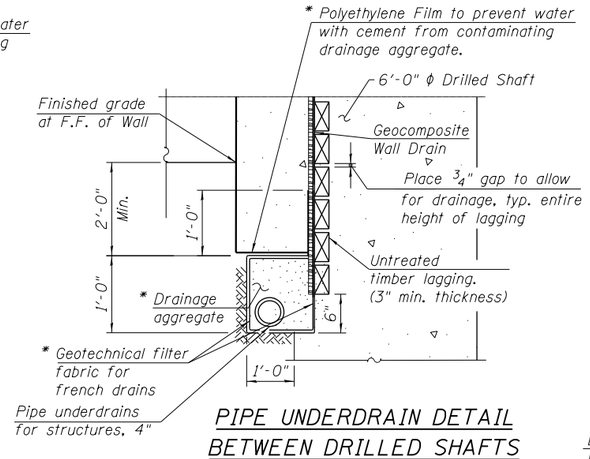
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-I	COOK	400	299
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			



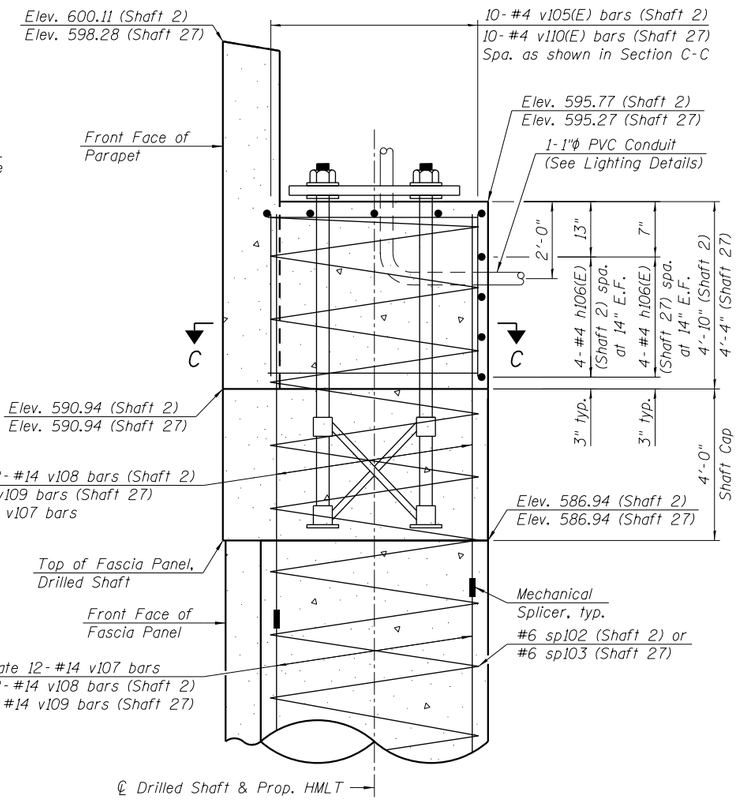
CONSTRUCTION JOINT DETAILS



PIPE UNDERDRAIN DETAIL AT DRILLED SHAFT

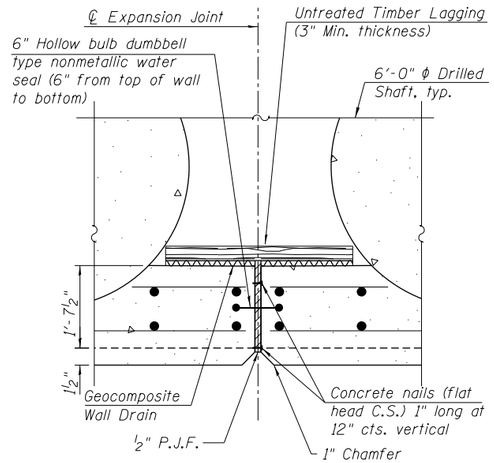


PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS

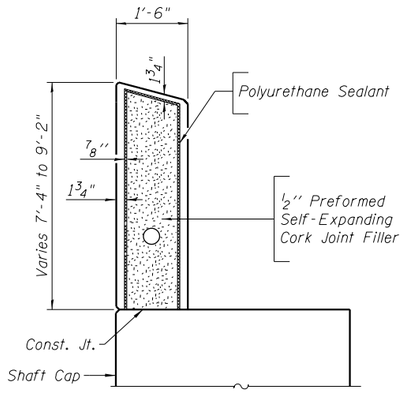


HMLT PEDESTAL ELEVATION

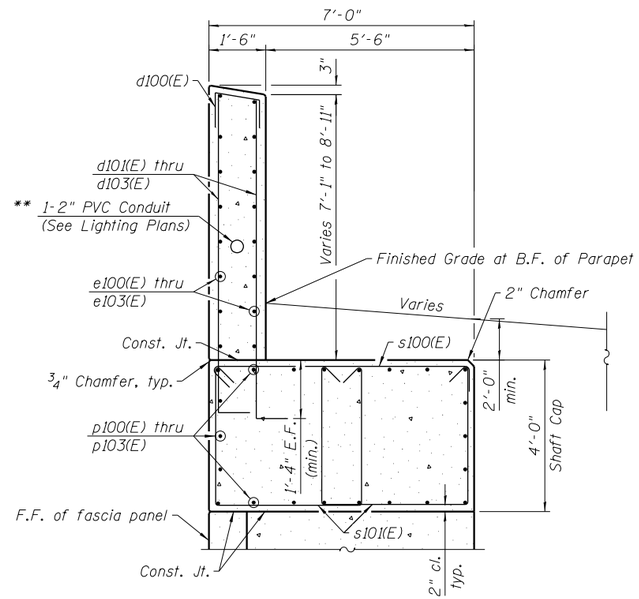
(Drilled Shafts 2 and 27 only)
(Parapet Reinforcement not shown for clarity)



EXPANSION JOINT DETAILS



TRANSVERSE EXPANSION JOINT SECTION

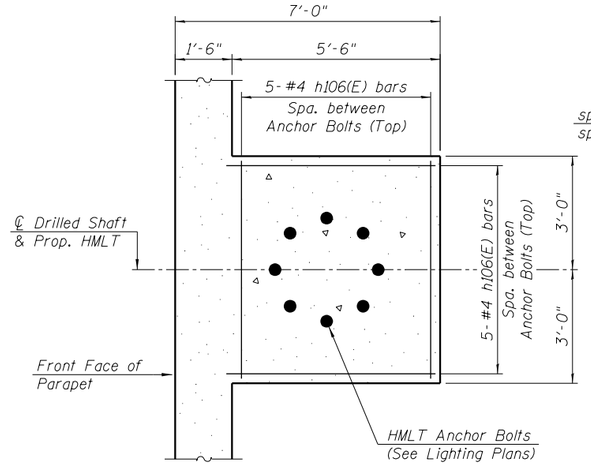


TYPICAL SECTION OF PARAPET AND CAP

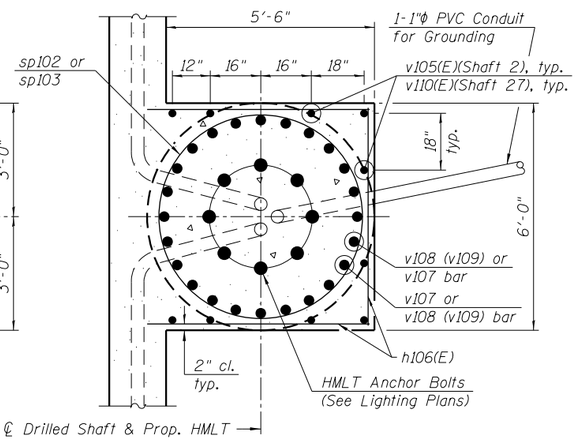
(Shaft and fascia panel reinforcement not shown for clarity)
** Maintain 1½" clear from reinforcement.

* Cost included with Pipe Underdrains for Structures, 4".

Notes:
F.F. = Front Face.
B.F. = Back Face.
E.F. = Each Face.
Work this sheet with Sheets S1-03 thru S1-06 of S1-15
The Polyurethane Sealant shall be according to Article 1050.04 of Std. Spec. and the color shall be gray.
HMLT Pedestal Concrete included in the cost of Concrete Superstructure.
For Anchor Rod Cage Details, see IDOT Standard BE-506.
Cost of Anchor Rod Cage and Grounding Conduit included in the cost of Concrete Superstructure.



DETAIL D



SECTION C-C

(Parapet Reinforcement not shown for clarity)

Tran Systems

USER NAME = AJDINKEL	DESIGNED - KRS	REVISED -
	CHECKED - DJG	REVISED -
PLOT SCALE = 0.1667 ' / in.	DRAWN - AJD	REVISED -
PLOT DATE = 8/27/2019	CHECKED - KRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL SECTIONS AND DETAILS 2
RETAINING WALL 38 (STRUCTURE NO. 016-1827)
SHEET NO. S1-08 OF S1-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2019-054-1	COOK	400	300
		CONTRACT NO. 62J31		
	ILLINOIS FED. AID PROJECT			

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