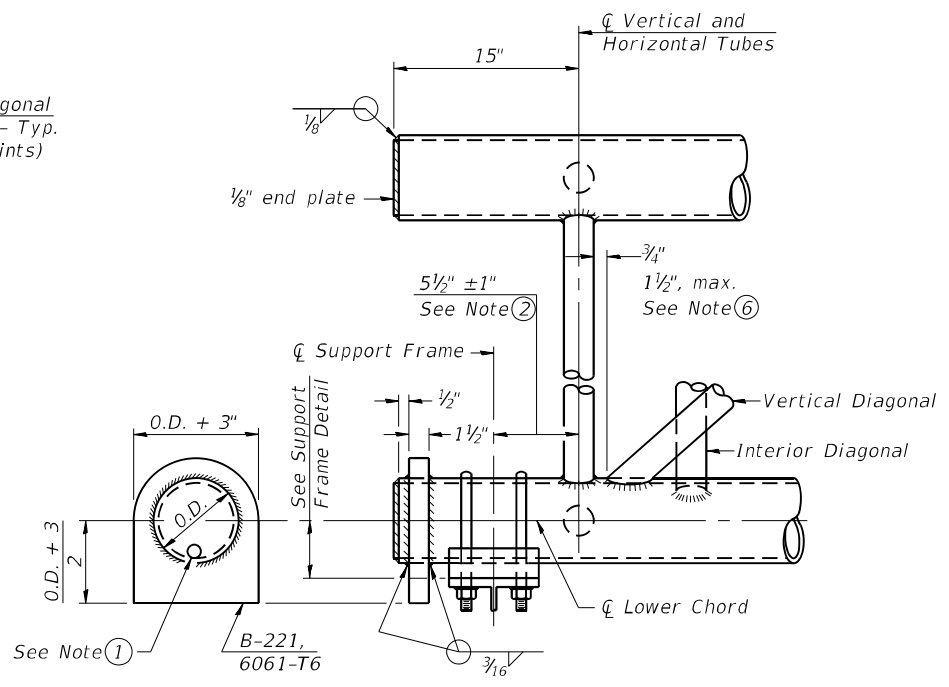
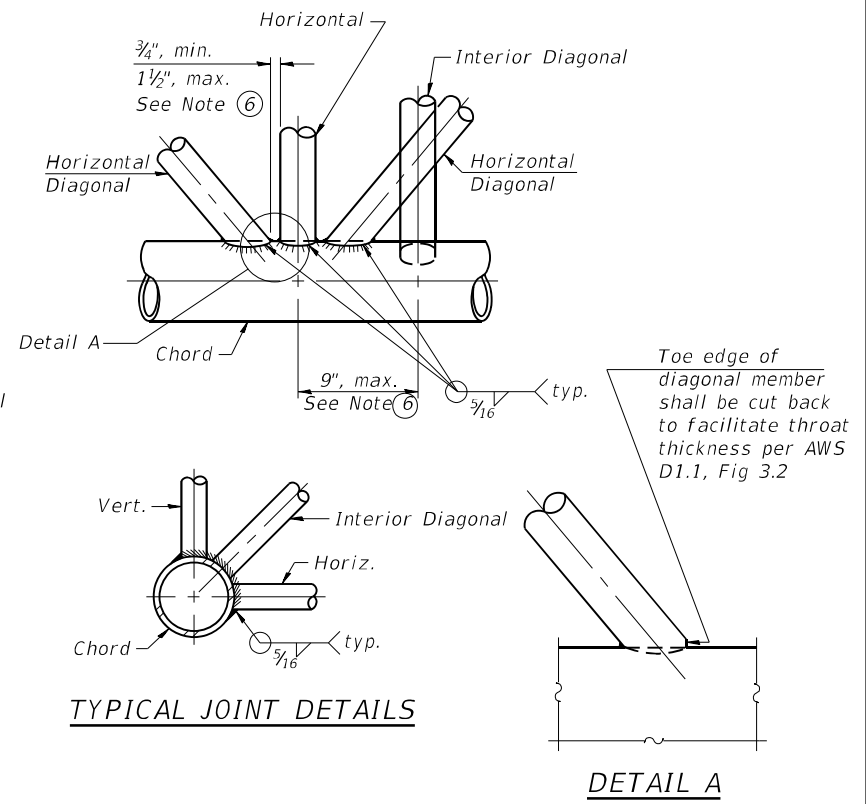


**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.

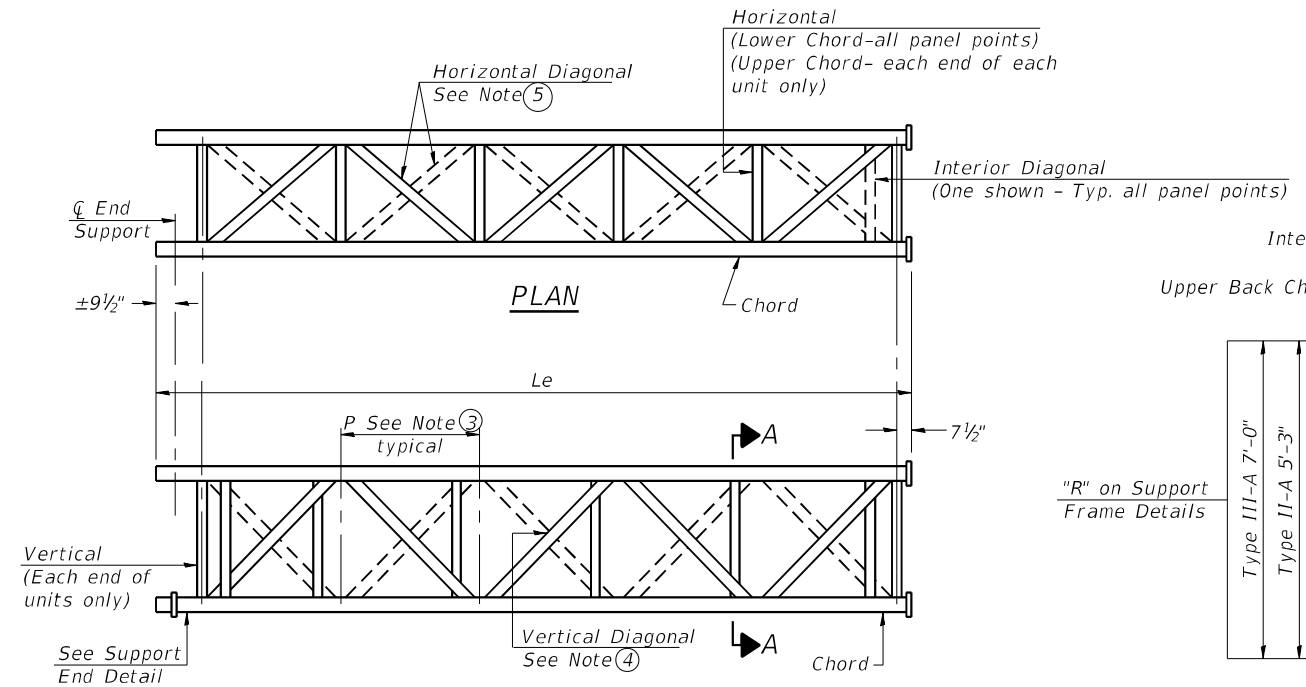


SUPPORT END DETAIL FOR EXTERIOR UNIT

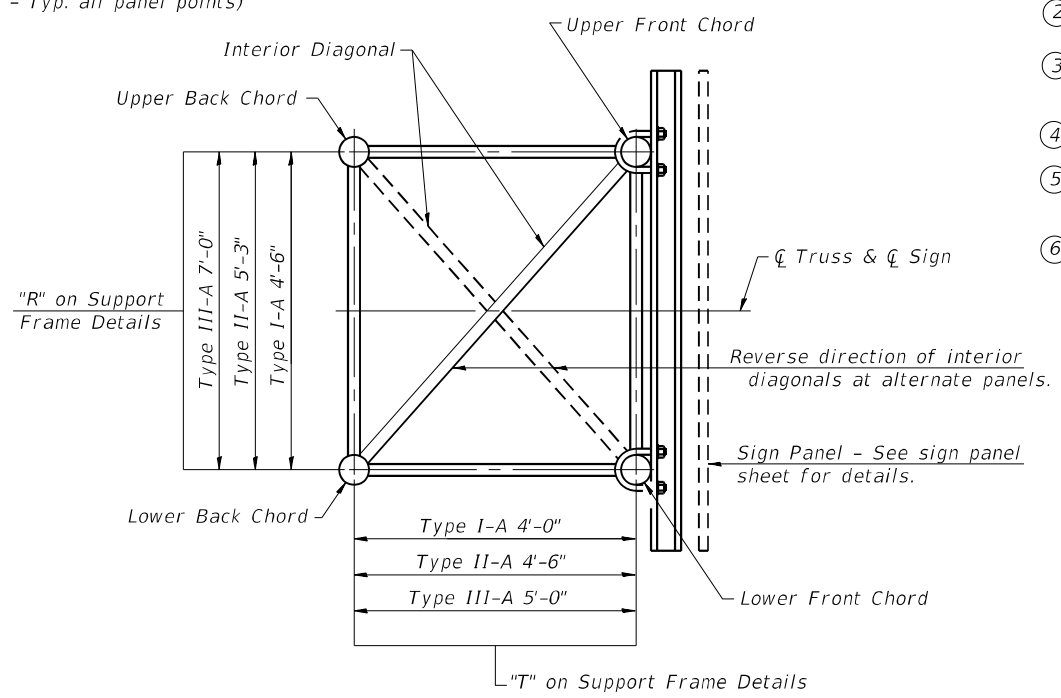


TYPICAL JOINT DETAILS

DETAIL A



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

MODEL: Default
FILE NAME: E:\19102\Struct\Sign Structures\Final Design\Plans\CADD_Sheets\15099\0551269.0-D.162\H03-002-TrussDetails.dgn

05-A-2

2-17-2017

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**STATE OF ILLINOIS
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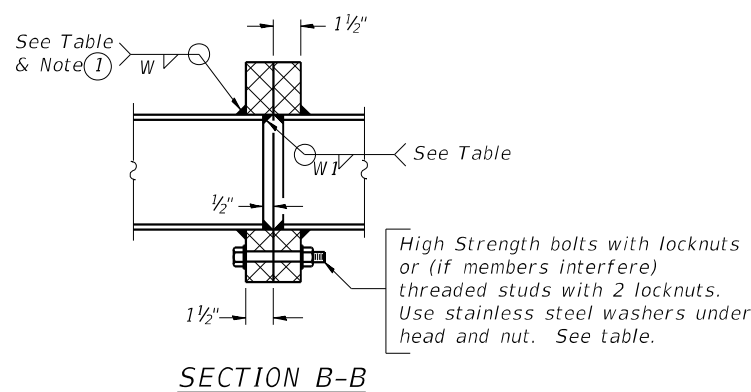
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	101
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

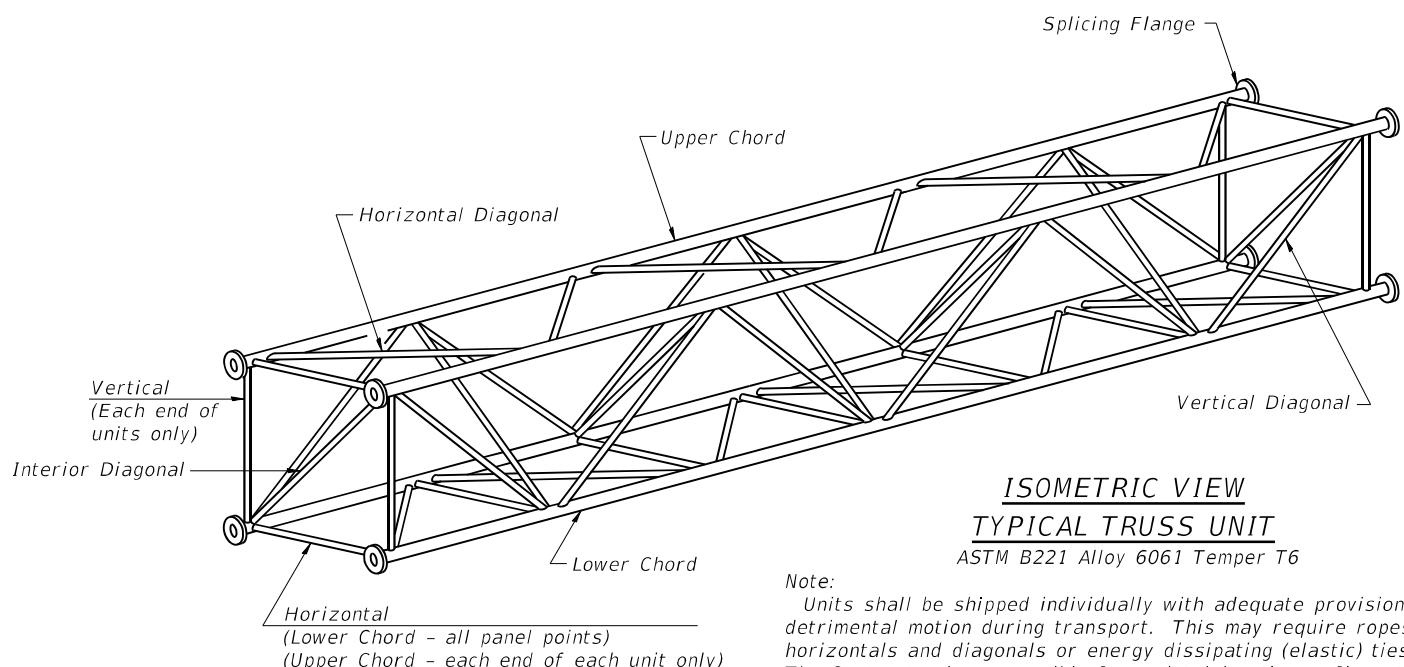
SHEET 4 OF 12 SHEETS

TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontal; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	WI		
1S0991055L269.0	313+57.50	II-A	8	39'-0 1/2"	4'-7 3/4"	1	8	38'-5"	4'-7 3/4"	7"	3/16"	3"	3/16"	3 7/8"	6	1"	3/8"	1/4"	11 1/2"	15"

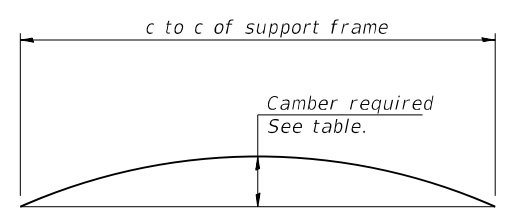


① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



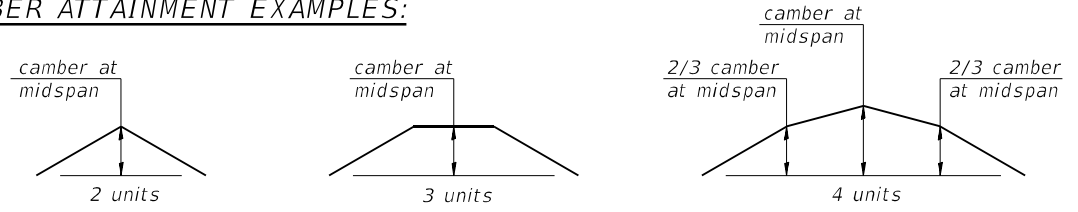
**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

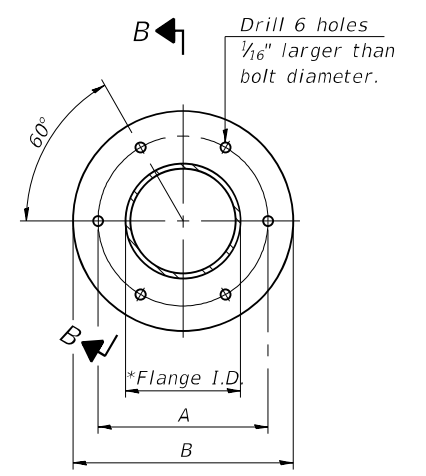


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

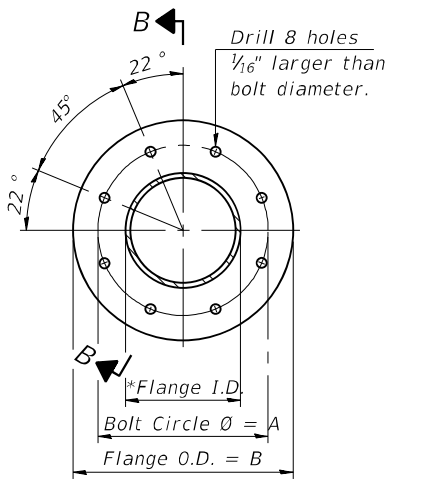
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



**TRUSS TYPES II-A & III-A
SPlicing FLANGES**

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

MODEL: Default
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054-A-2

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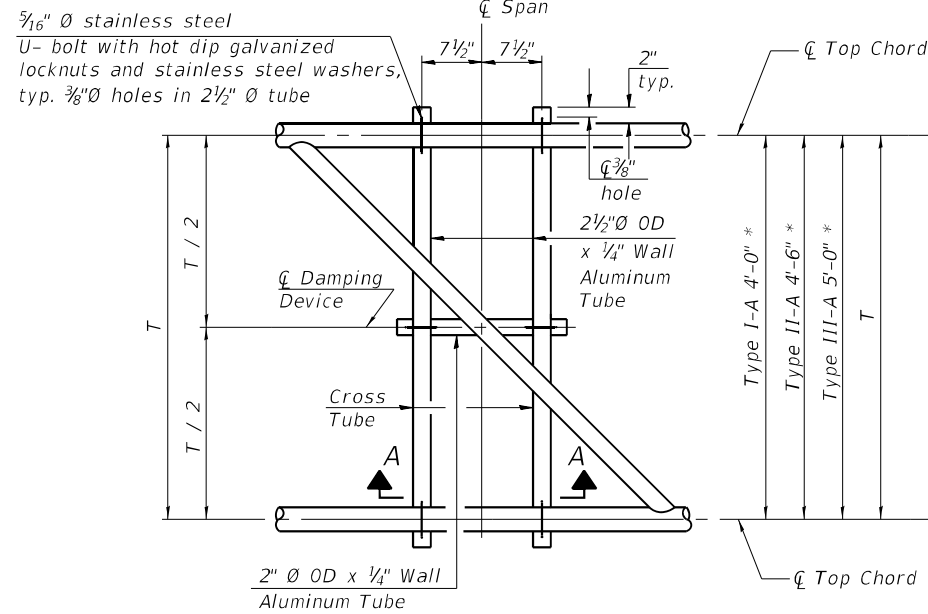
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

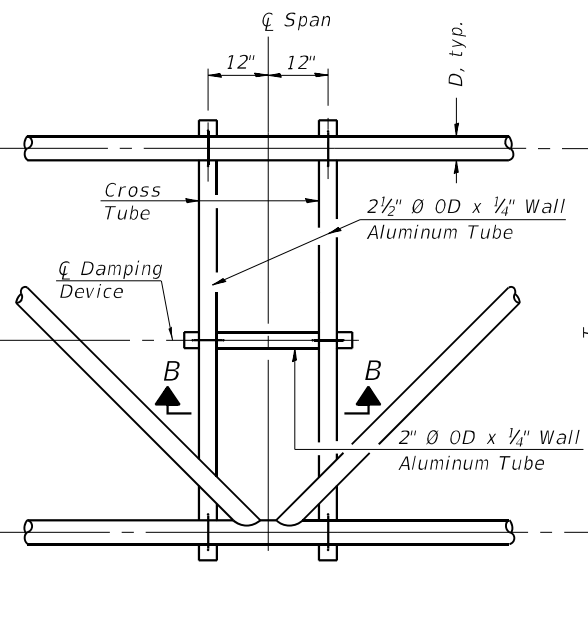
SHEET 5 OF 12 SHEETS

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 102
				CONTRACT NO. 62H03
ILLINOIS FED. AID PROJECT				

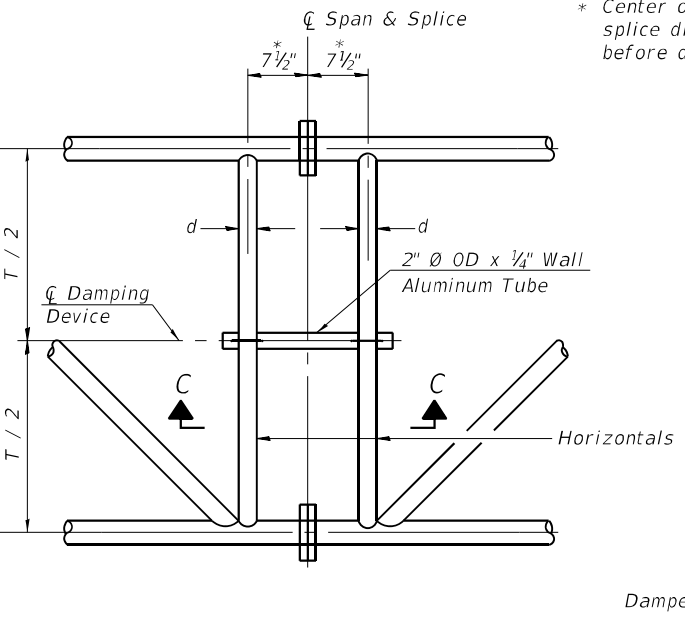
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PLAN DETAIL "A"
 ☐ Span between Panel Points



PLAN DETAIL "B"
 ☐ Span at Panel Point



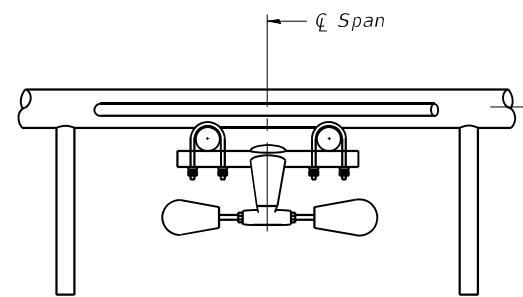
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

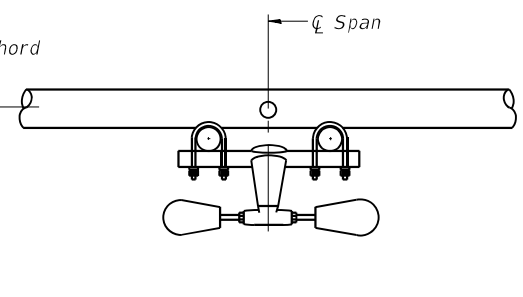
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

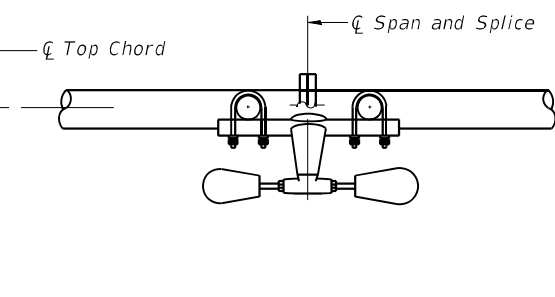
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



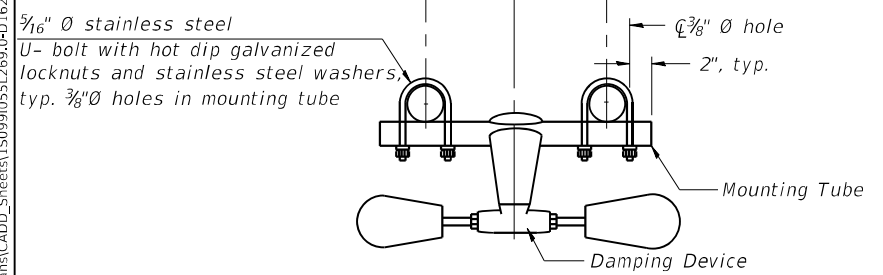
SECTION A-A



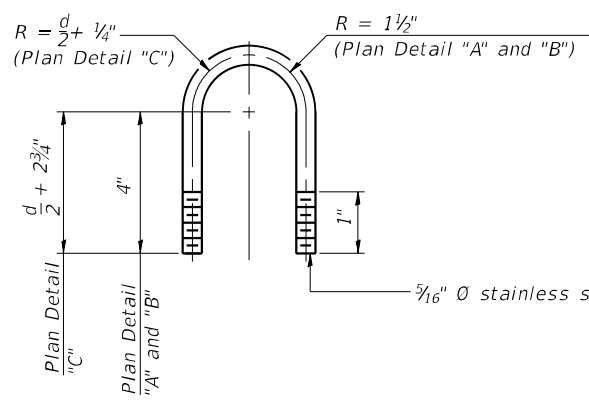
SECTION B-B



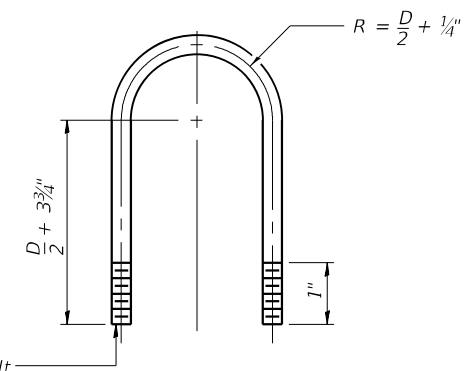
SECTION C-C



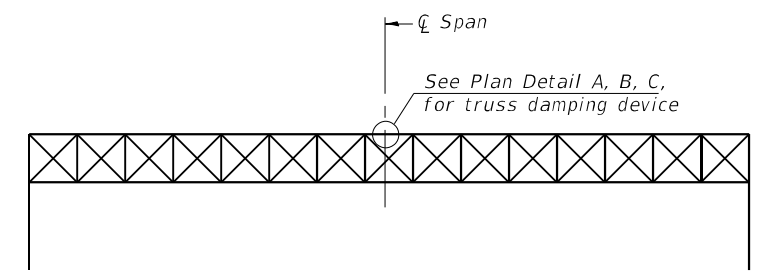
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

05-A-D

2-17-2017

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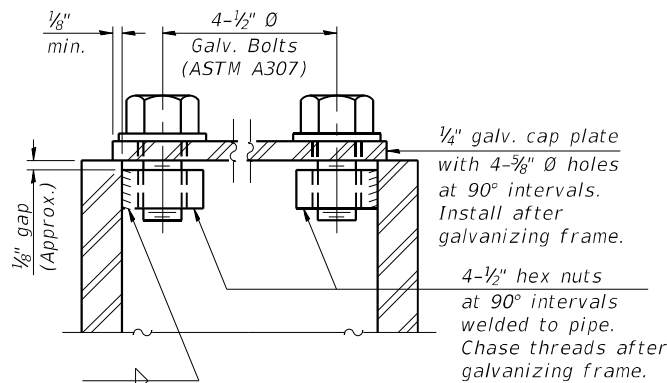
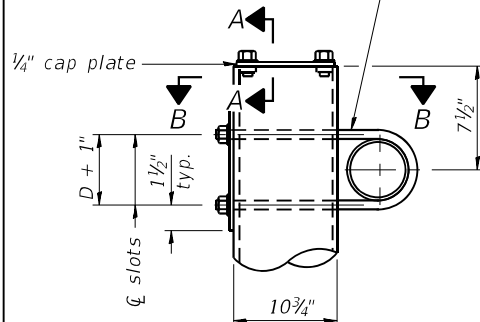
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

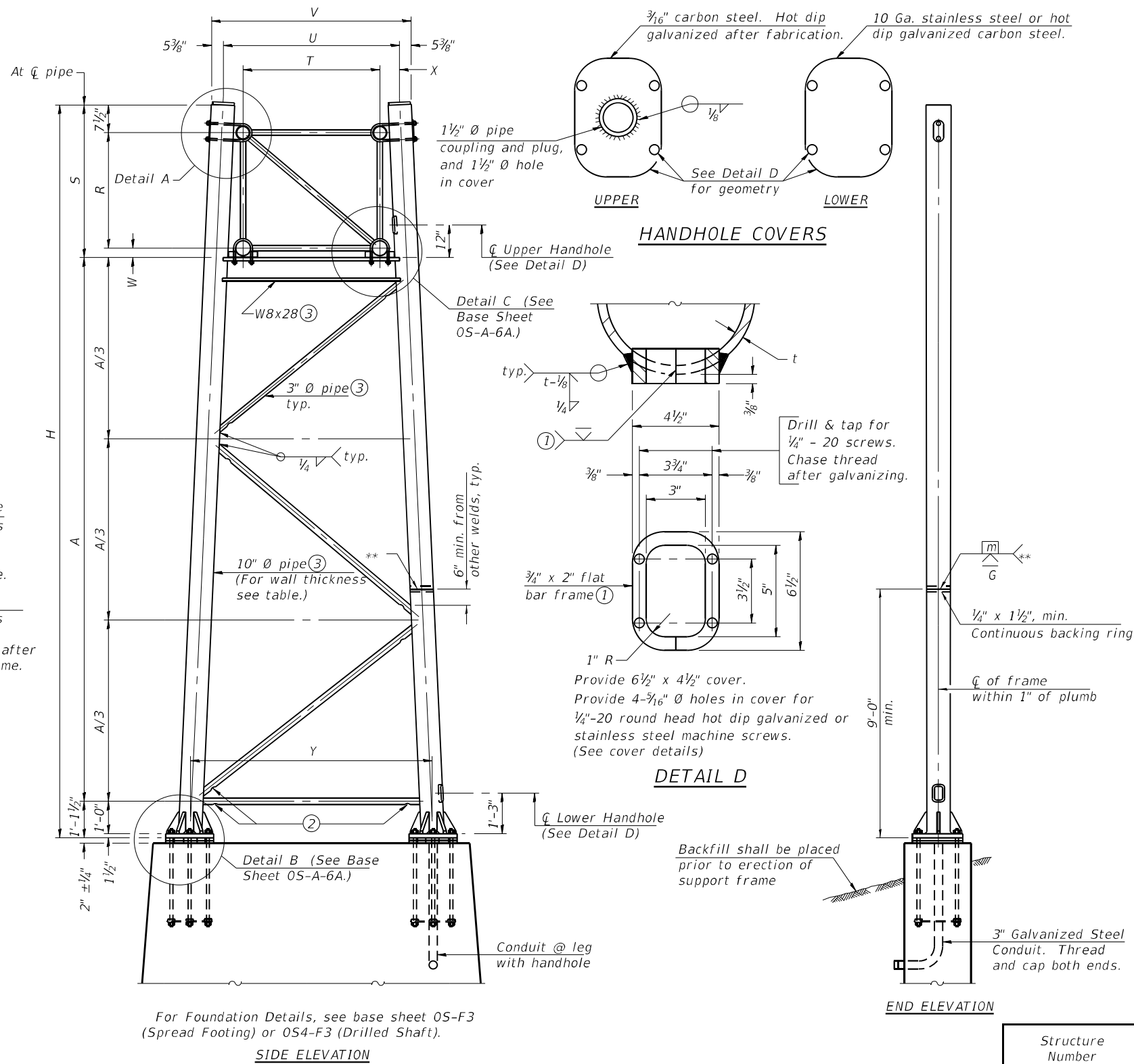
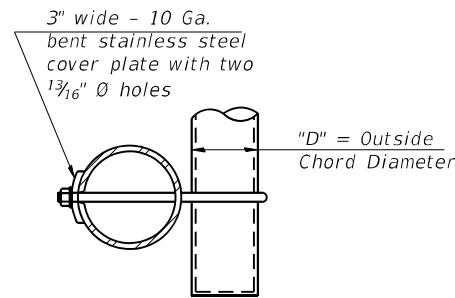
SHEET 6 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	103
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

3/4" Ø stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 10" Ø pipe.
(4 slots required per pipe)



As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



Support Design Loads: See Base Sheet 0S-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 0S-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

For Foundation Details, see base sheet 0S-F3 (Spread Footing) or 0S4-F3 (Drilled Shaft).

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
1S0991055L269.0	313+57.50	-	Right	II-A	0.365"	22'-2"	14'-9 1/4"
1S0991055L269.0	313+57.50	Left	-	II-A	0.365"	24'-8"	17'-3 1/4"

0S-A-6 2-17-2017



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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

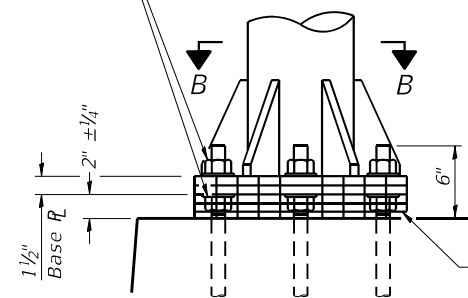
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-043-BD&BJR	WILL	430	104
CONTRACT NO. 62H03				

SHEET 7 OF 12 SHEETS

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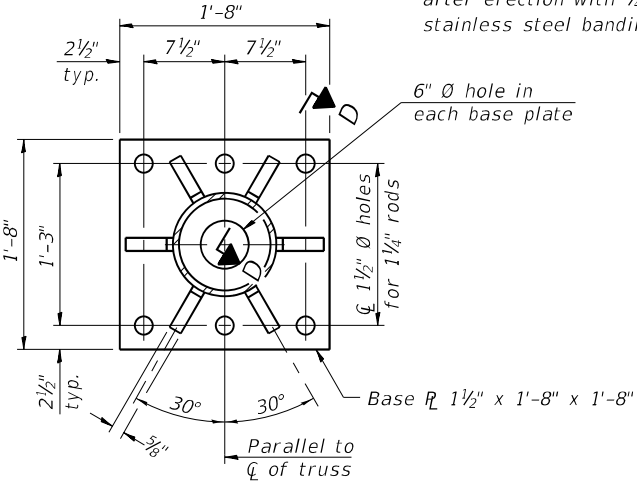
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Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

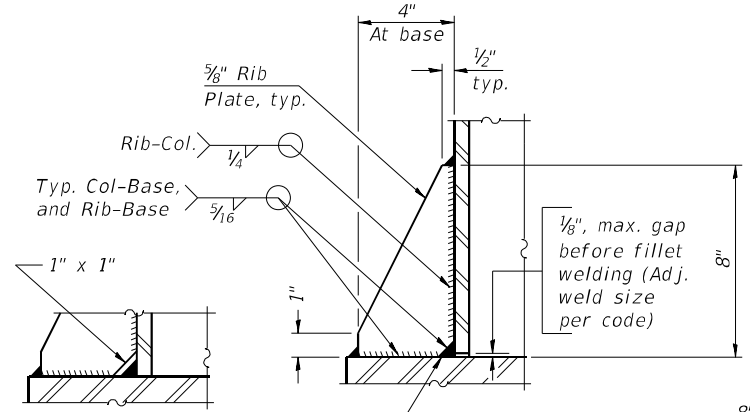


DETAIL B

Ribs shall be cut to fit slope of pipe.
Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



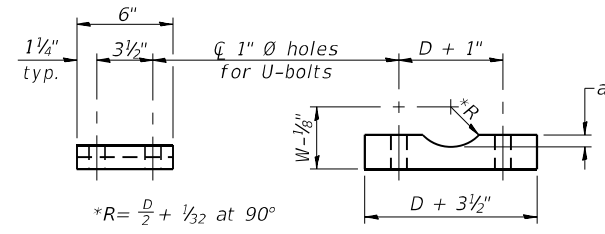
SECTION B-B



SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

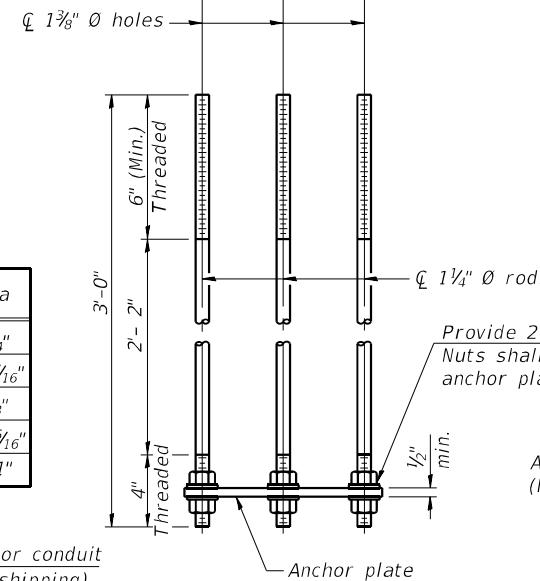
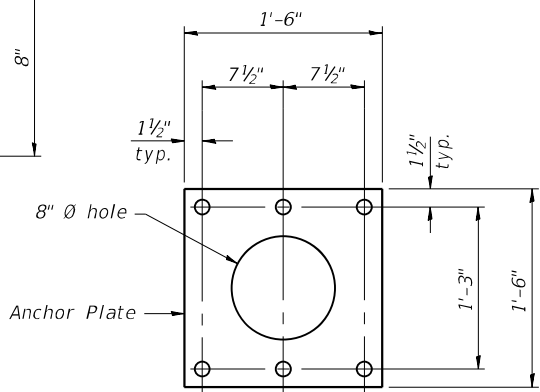
No snip req'd. at rib inside corner if placed before col. to base plate welding.**



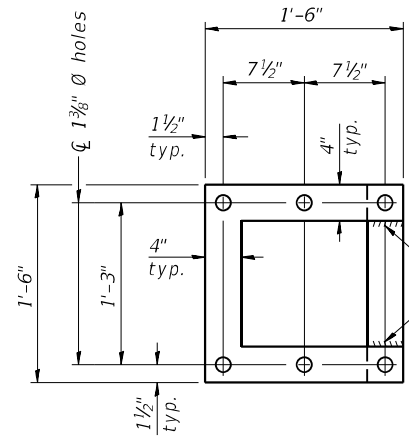
SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 1/16"
6"	7/8"
6 1/2"	1 5/16"
7"	1"

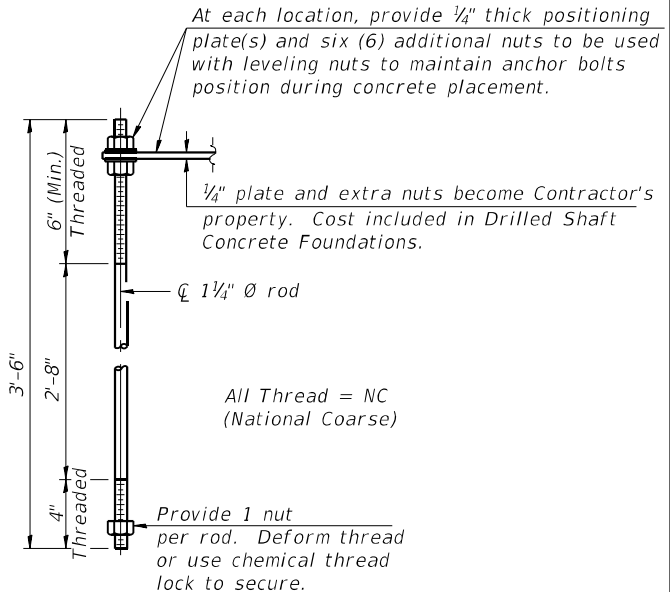


ANCHOR ROD DETAIL
Spread Footing Foundation



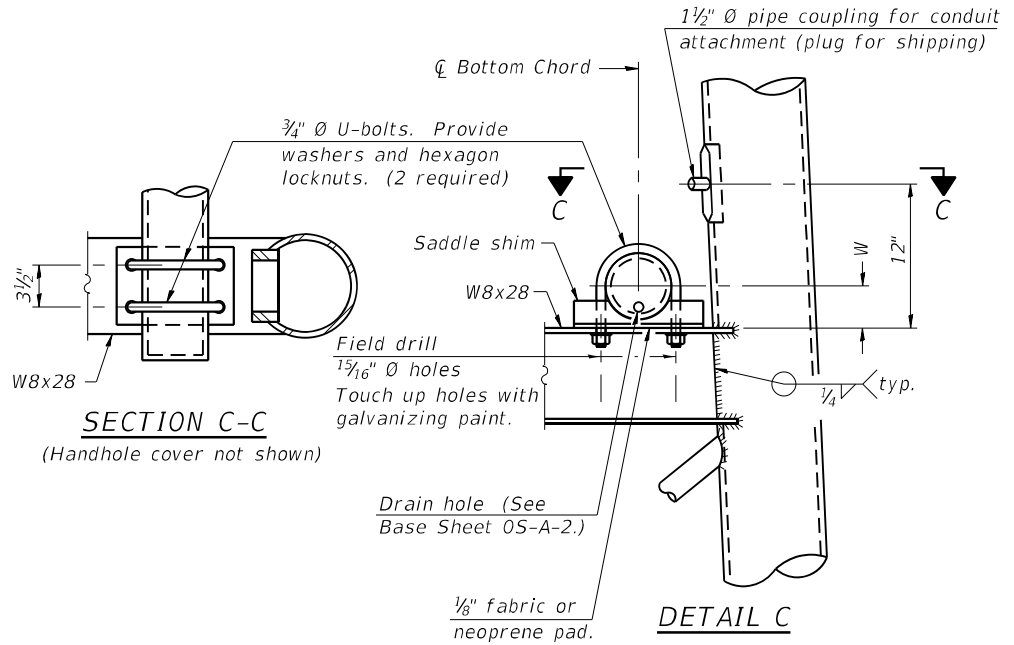
POSITIONING PLATE(S)

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



ANCHOR ROD DETAIL
Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.



SECTION C-C

DETAIL C

10" Ø PIPE SUPPORT FRAME DETAILS

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05-A-6A

2-17-2017

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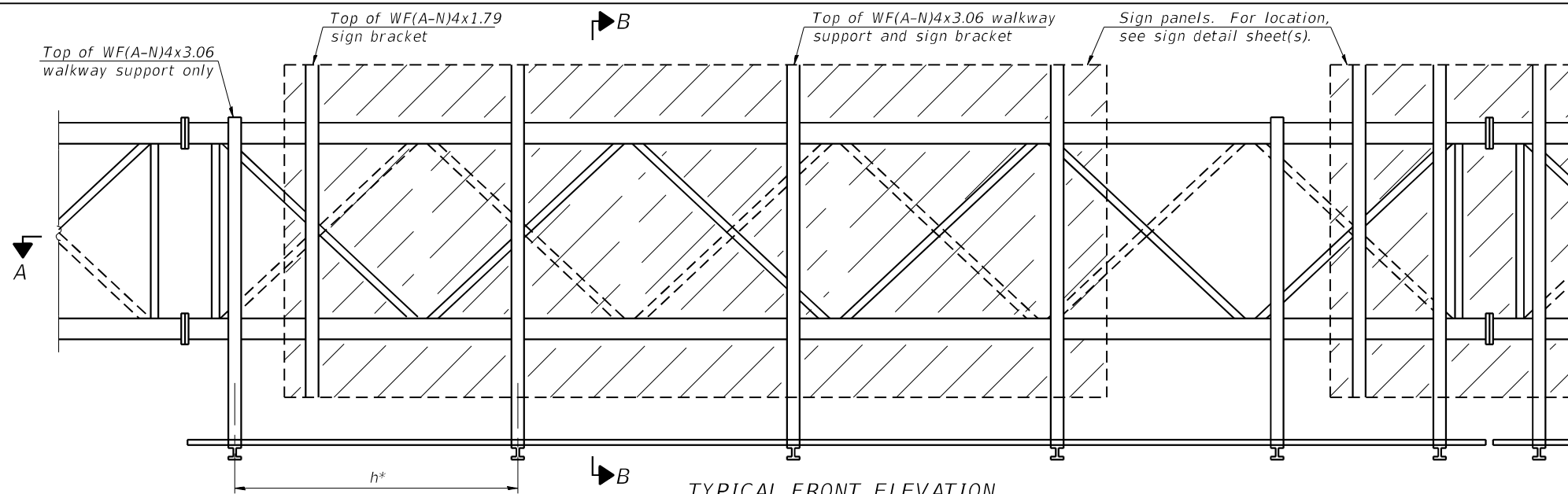
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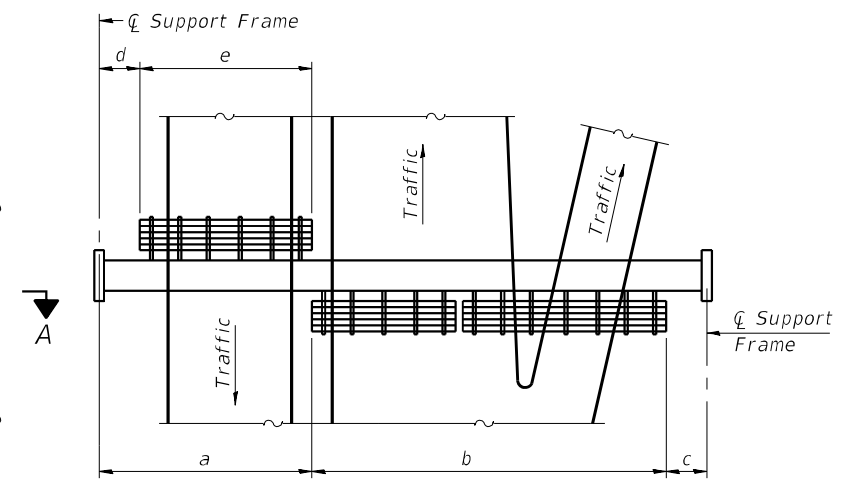
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SHEET 8 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	105
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				



TYPICAL FRONT ELEVATION
 With lights and handrail omitted for clarity.
 For Section B-B, see Base Sheet 05-A-10.



PLAN
WALKWAY AND HANDRAIL SKETCH
 (Road plan beneath truss varies)

BRACKET TABLE

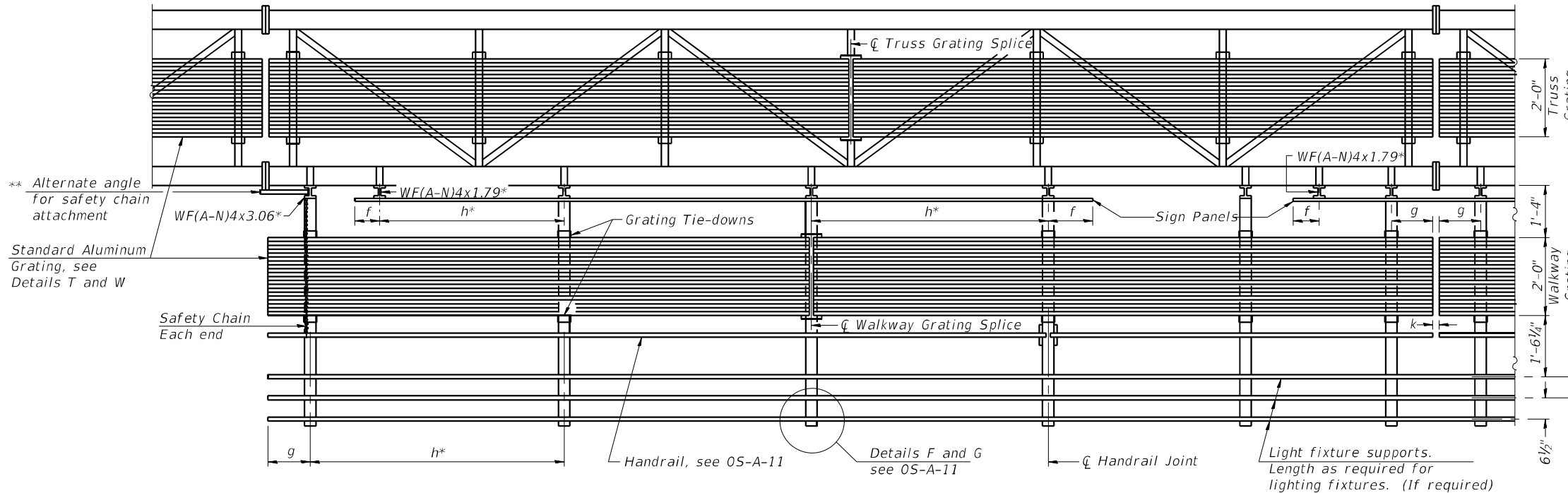
WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:
 * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 $f = 12"$ maximum, $4"$ minimum (End of sign to C of nearest bracket)
 $g = 12"$ maximum, $4"$ minimum (End of walkway grating to C of nearest support bracket)
 $h = 6'-0"$ maximum (C to C sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 $k = 2"$ maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet 05-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet 05-A-10.

For Handrail Details see Base Sheet 05-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
 Place all sign and walkway brackets as close to panel points as practical.
 Handrail joints, grating, and light support splices placed as needed.

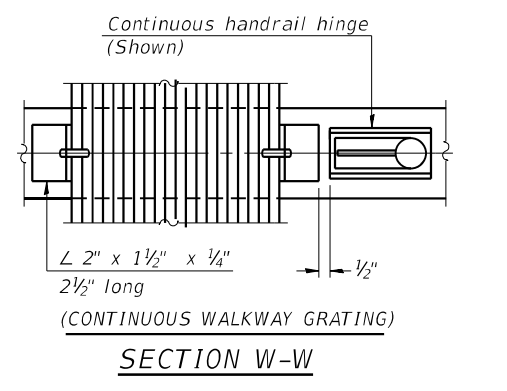
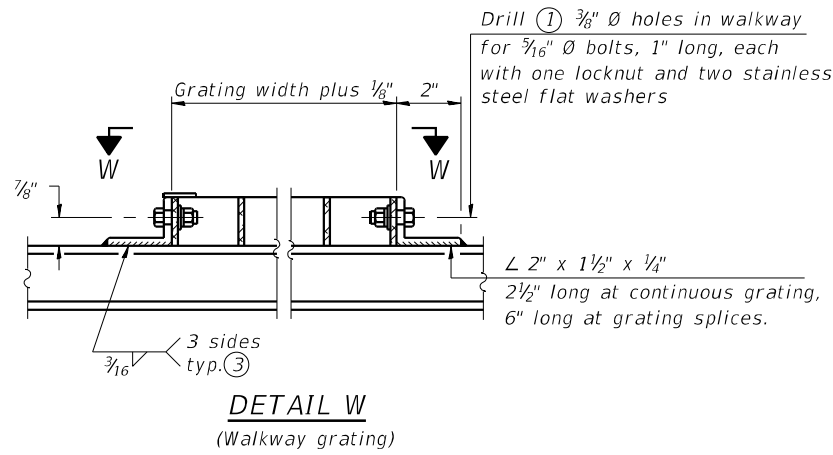
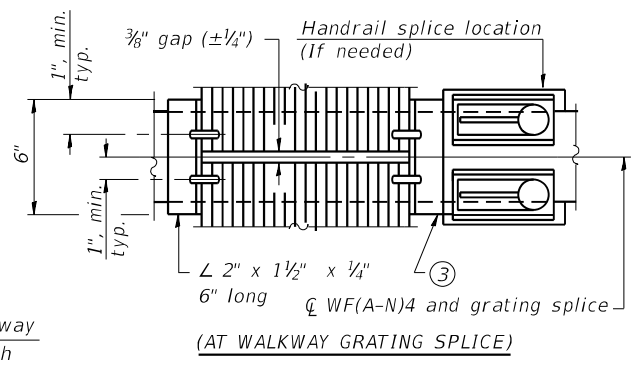
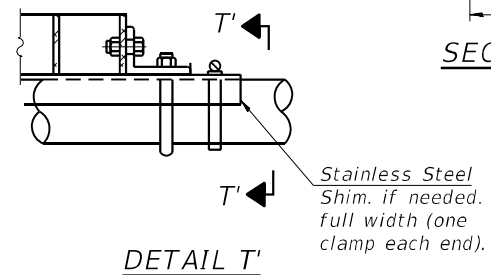
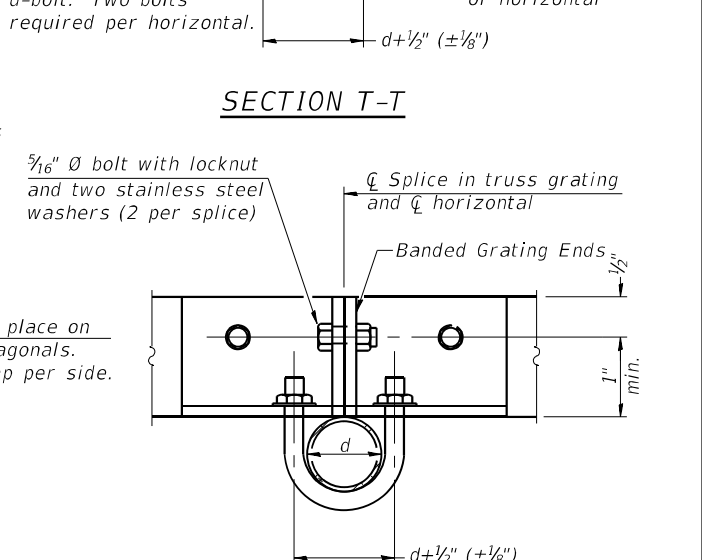
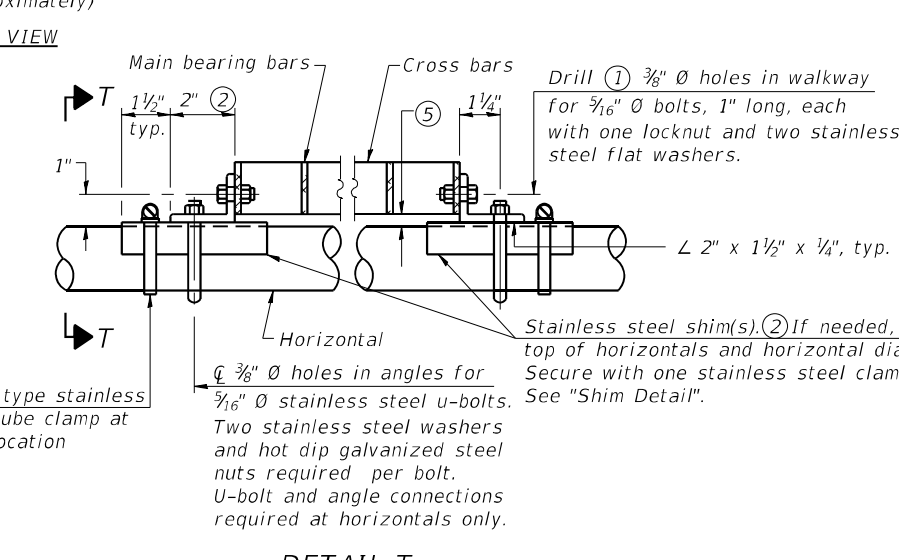
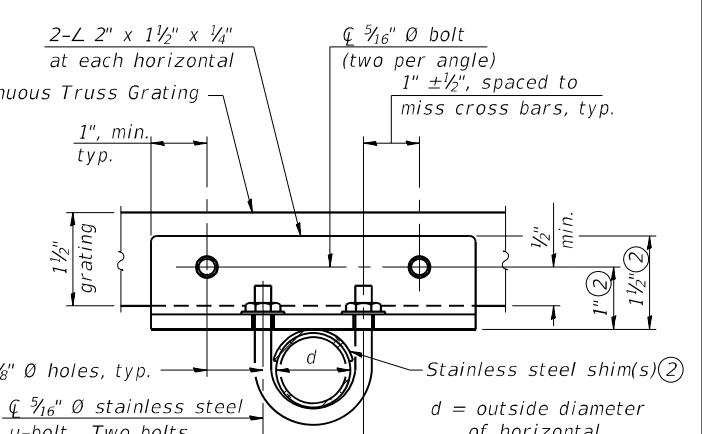
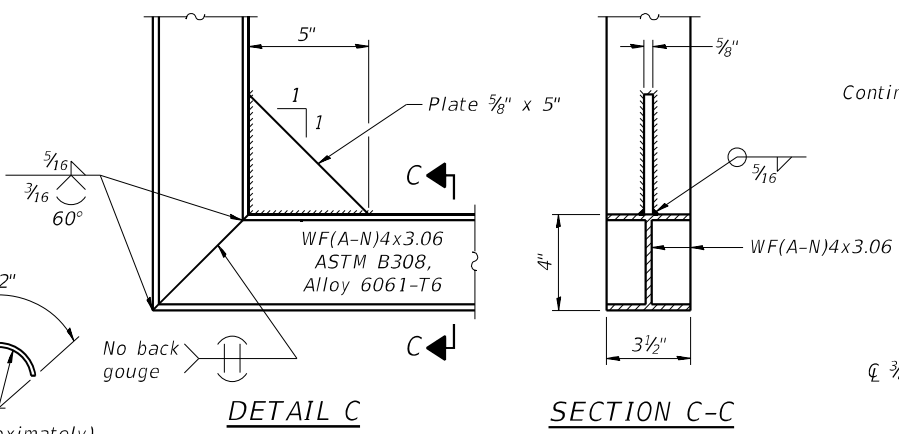
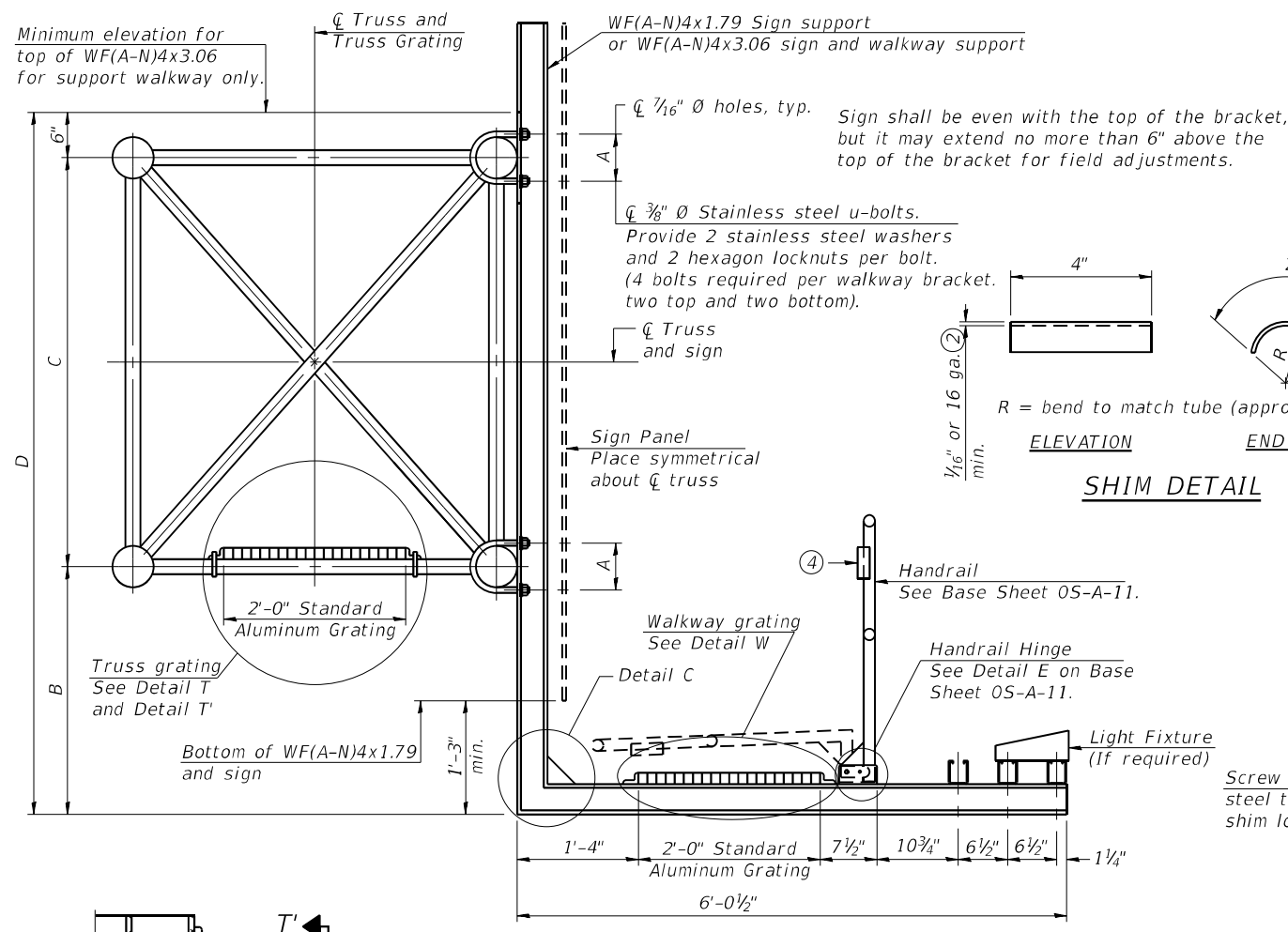
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
1S0991055L269.0	313+57.50	-	-	-	-	-	-

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL, AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT.

MODEL: Default
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SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.
 OR
 Aluminum Grating with modified "I" 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 1 1/2", 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
1S0991055L269.0	313+57.50	7 3/8"	2'-4 1/2"	5'-3"	8'-1 1/2"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- 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.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet 0S-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on 0S-A-1.

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL, AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT.

MODEL: Default
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LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

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PLOT TIME = 7:22:22 AM	DRAWN - VPT	REVISED -
PLOT DATE = 4/14/2021	CHECKED - AML	REVISED -
	DATE - 4/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
 ALUMINUM WALKWAY DETAILS**

SHEET 10 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	107
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#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 (Q_u) 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.

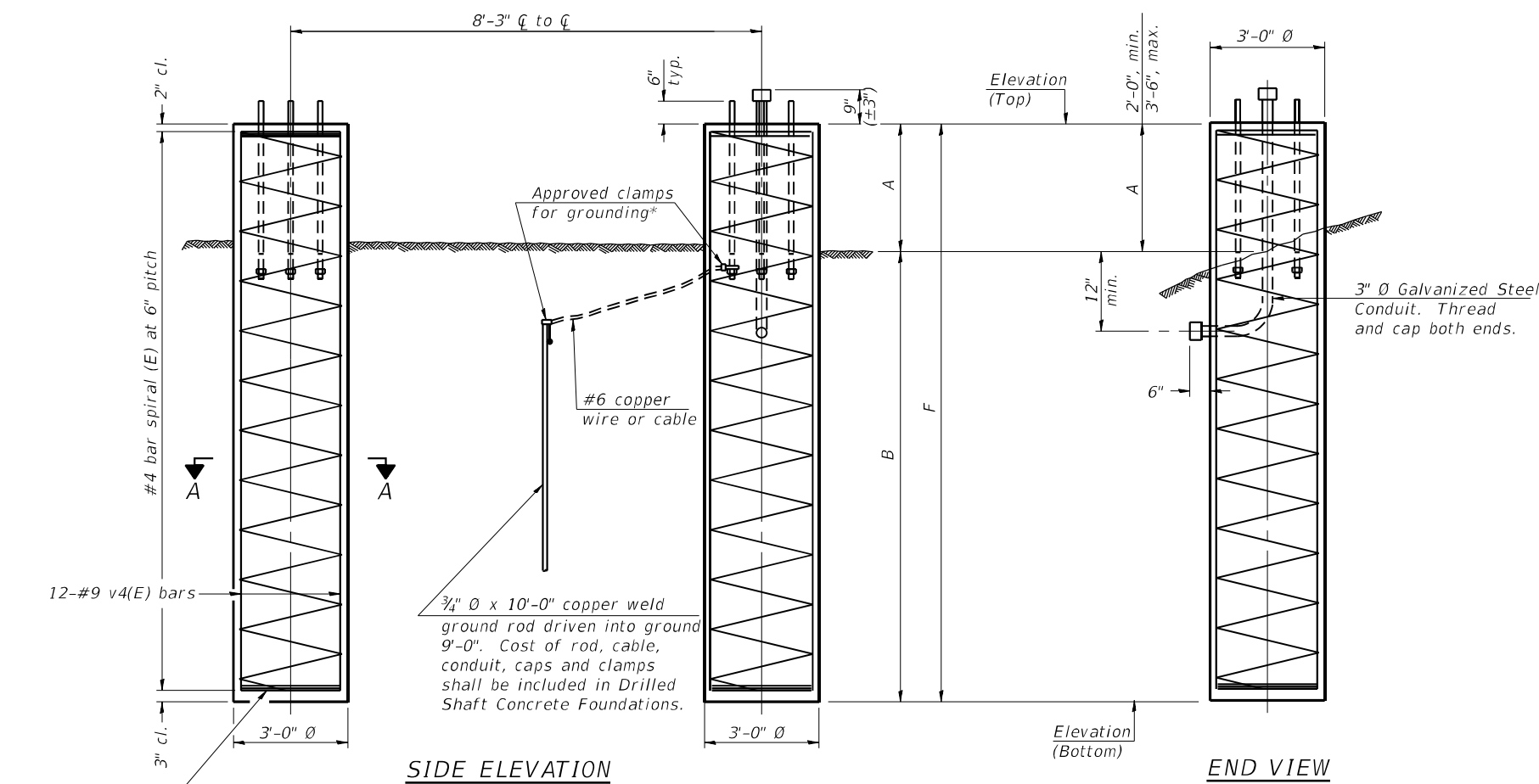
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

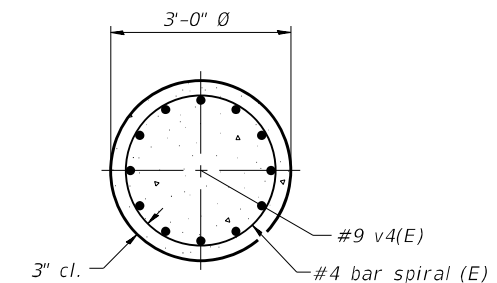


SIDE ELEVATION

END VIEW

3 hoops minimum top and bottom

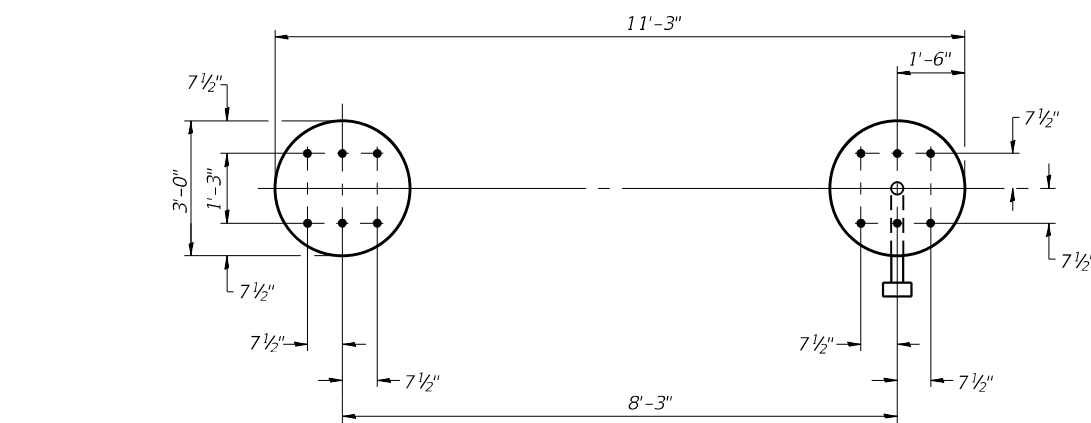
Approved clamps for grounding*
#6 copper wire or cable
3/4" Ø x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.



SECTION A-A

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.



PLAN

**DETAILS FOR 10" Ø SUPPORT FRAME
TYPE I-A or II-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	
1S0991055L269.0	313+57.50	762.72	738.96	3.26'	20.5'	23.76'	-	-	-	-	-	12.5

054-F3

2-17-2017

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Consulting Engineers
Springfield, Illinois

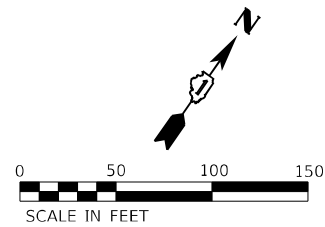
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	DATE - 4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SHEET 11 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	108
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

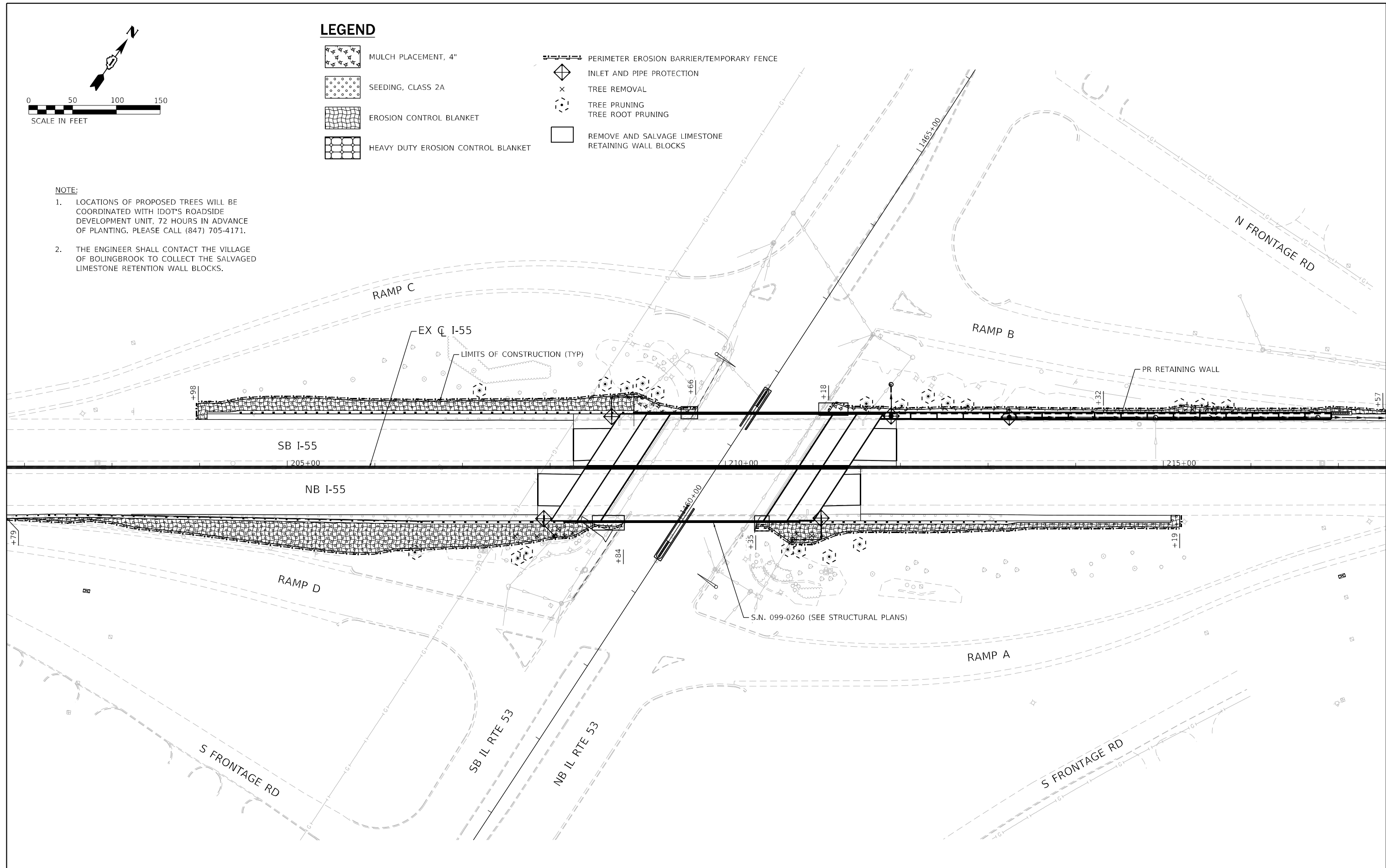


LEGEND

- MULCH PLACEMENT, 4"
- SEEDING, CLASS 2A
- EROSION CONTROL BLANKET
- HEAVY DUTY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER/TEMPORARY FENCE
- INLET AND PIPE PROTECTION
- TREE REMOVAL
- TREE PRUNING
- TREE ROOT PRUNING
- REMOVE AND SALVAGE LIMESTONE RETAINING WALL BLOCKS

NOTE:

1. LOCATIONS OF PROPOSED TREES WILL BE COORDINATED WITH IDOT'S ROADSIDE DEVELOPMENT UNIT, 72 HOURS IN ADVANCE OF PLANTING. PLEASE CALL (847) 705-4171.
2. THE ENGINEER SHALL CONTACT THE VILLAGE OF BOLINGBROOK TO COLLECT THE SALVAGED LIMESTONE RETENTION WALL BLOCKS.



Lin Engineering, Ltd.
 Consulting Engineers
 Westmont, Illinois

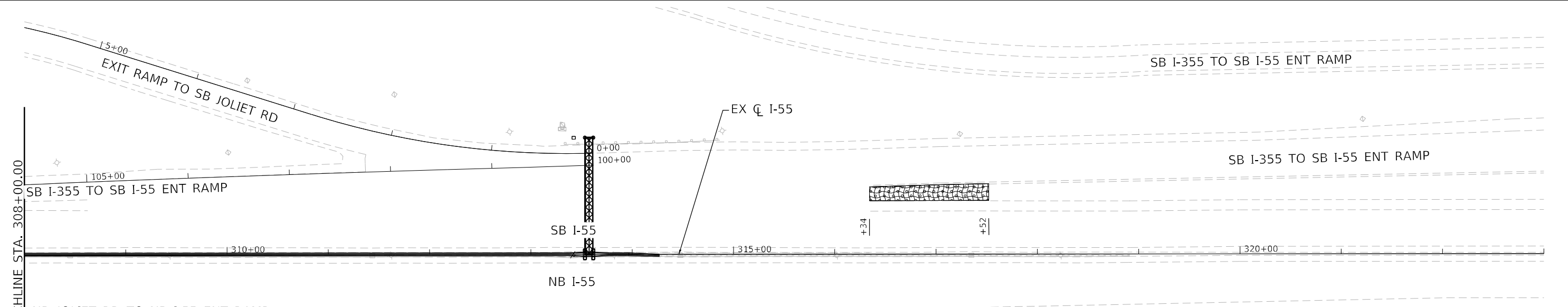
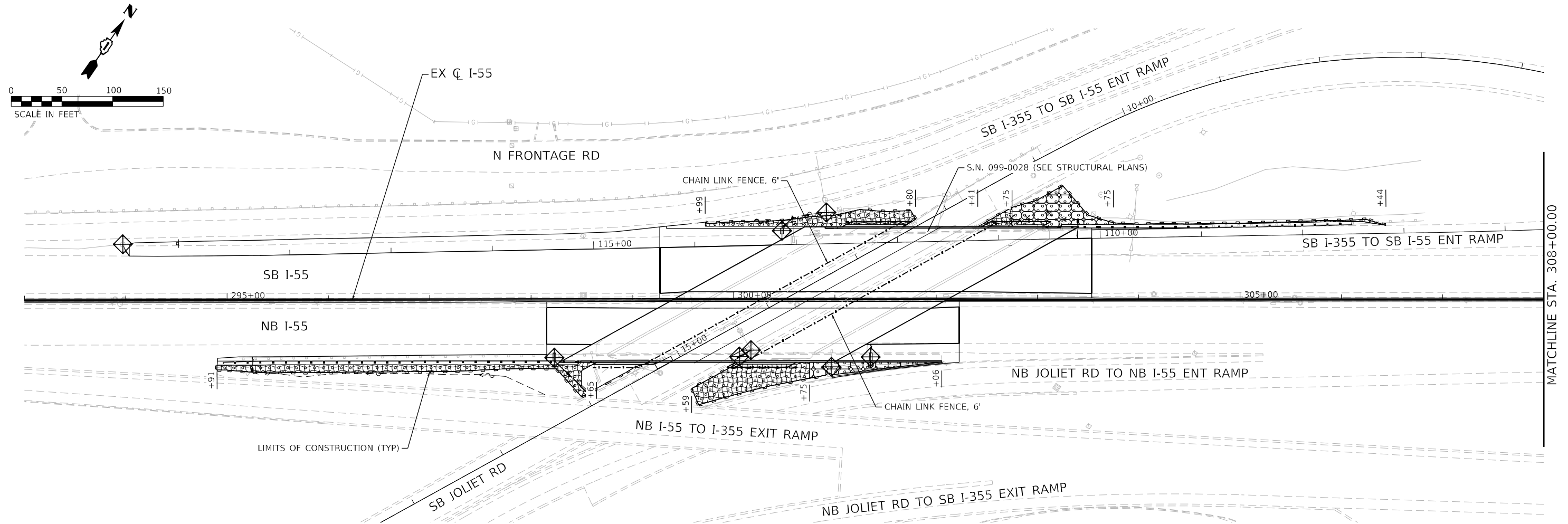
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**










**F.A.I. ROUTE 55 (I-55)
 S.N. 099-0260 EROSION CONTROL & LANDSCAPING PLAN**

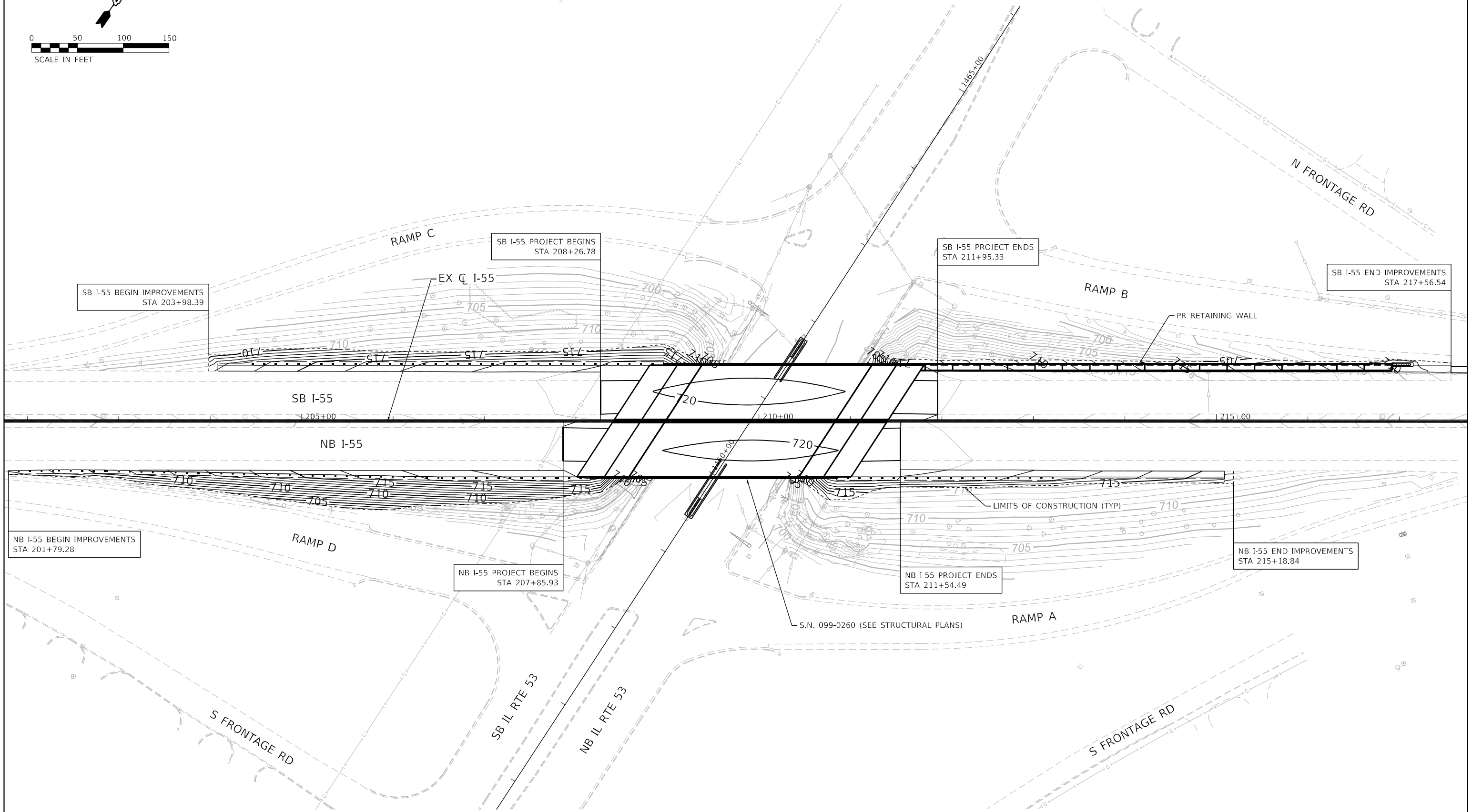
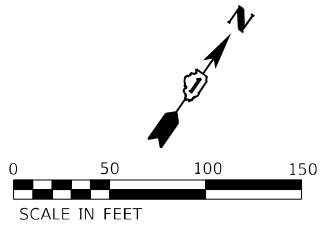
SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 201+79.28 TO STA. 217+56.54

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	110
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				



LEGEND

-  MULCH PLACEMENT, 4"
-  SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  HEAVY DUTY EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  TREE REMOVAL
-  TREE PRUNING
-  TREE ROOT PRUNING



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 Consulting Engineers
 Westmont, Illinois

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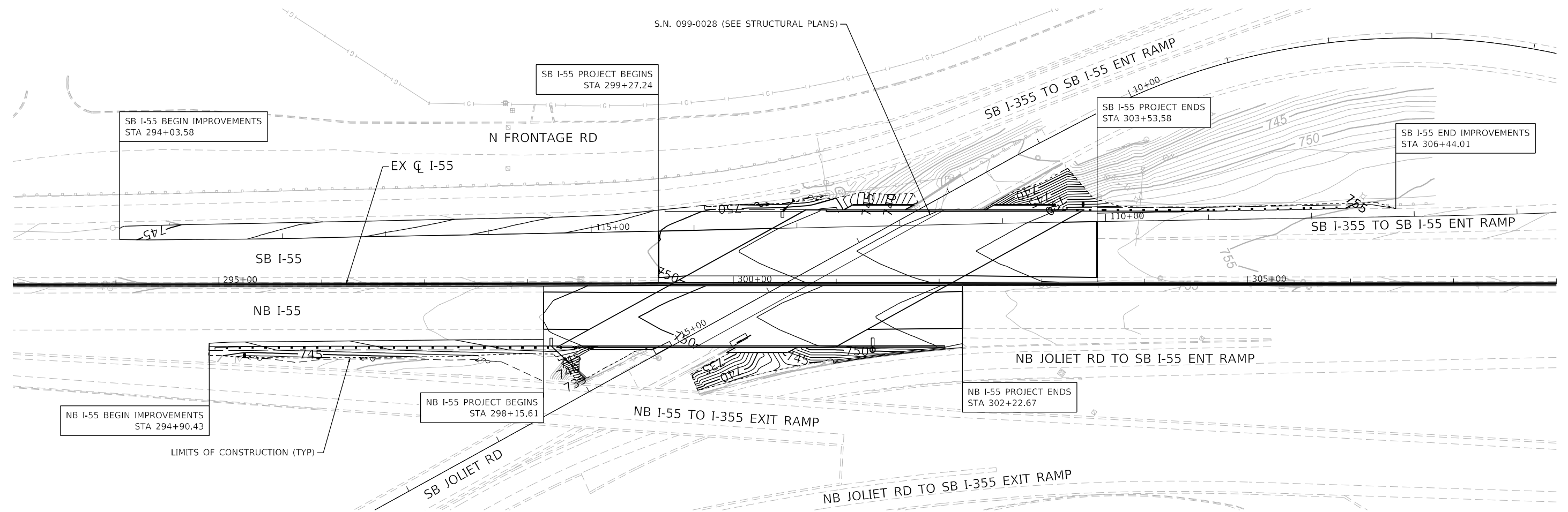
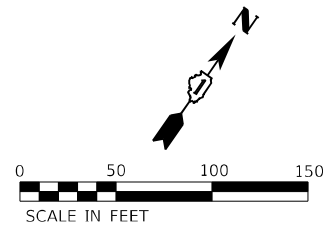
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 55 (I-55)
S.N. 099-0260 GRADING PLAN

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 201+79.28 TO STA. 217+56.54

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	112
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 4/14/2021	DATE - 4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I. ROUTE 55 (I-55)
S.N. 099-0028 GRADING PLAN**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 294+03.58 TO STA. 306+44.01

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

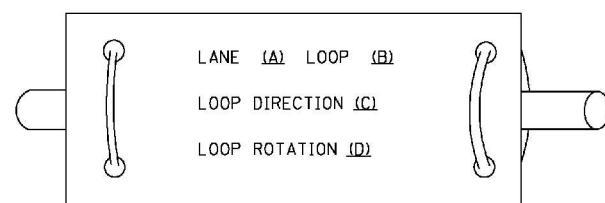
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	 	
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"	 	
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 	SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	 	
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	 	
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

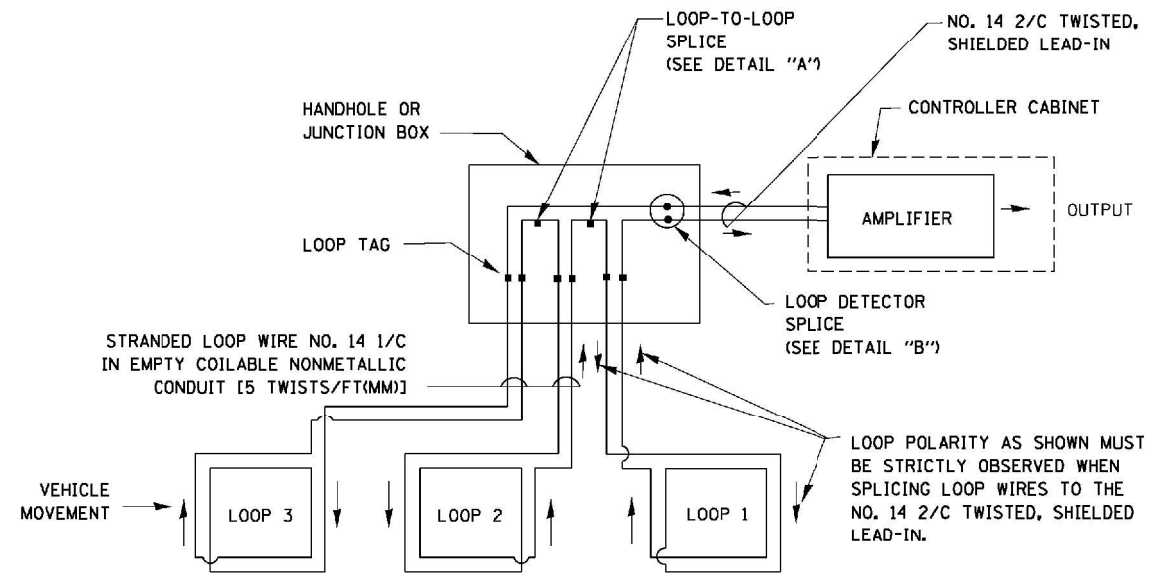
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

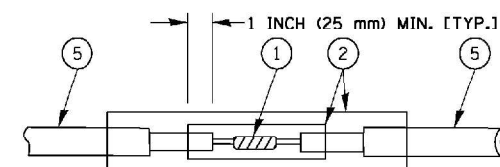


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

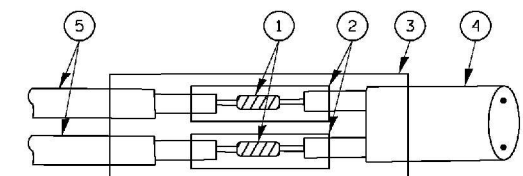


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

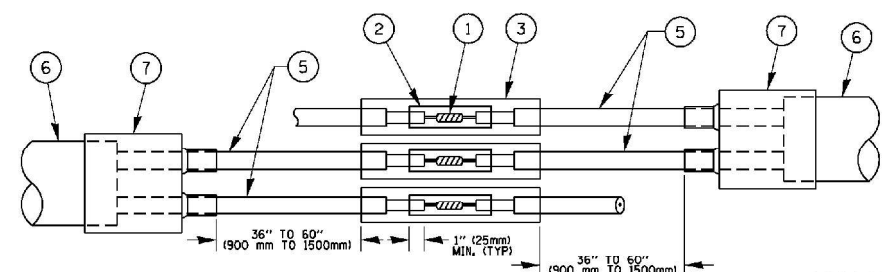


DETAIL "A"
LOOP-TO-LOOP SPLICE

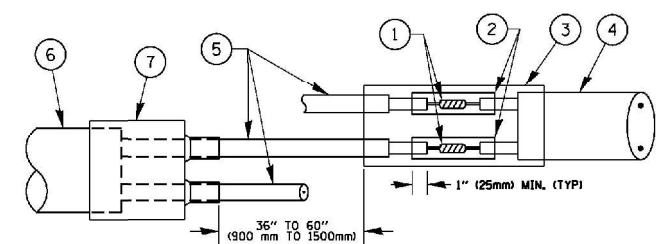


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

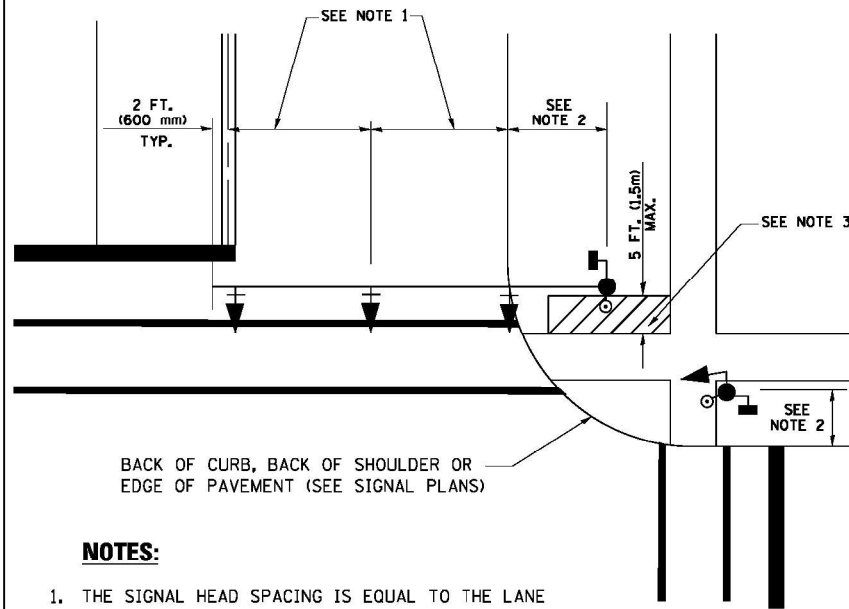
PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. ~~TYPE CBR 2 OR APPROVED EQUAL~~

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 116
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PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

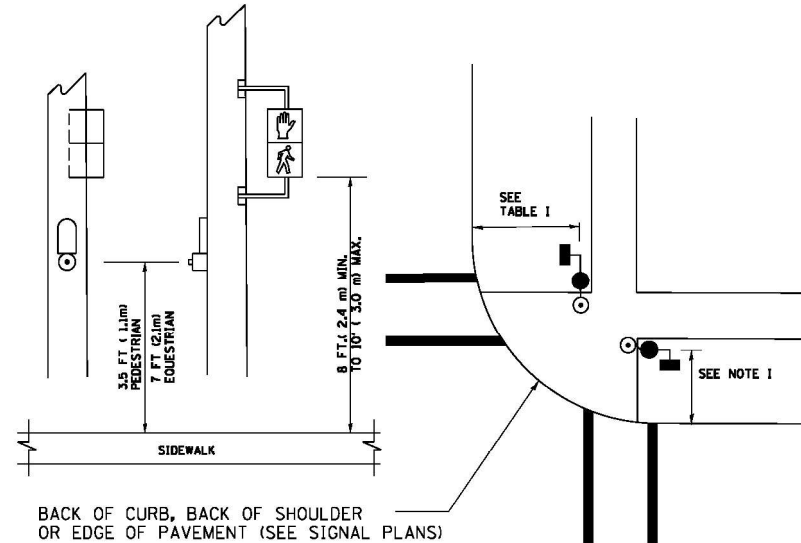
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

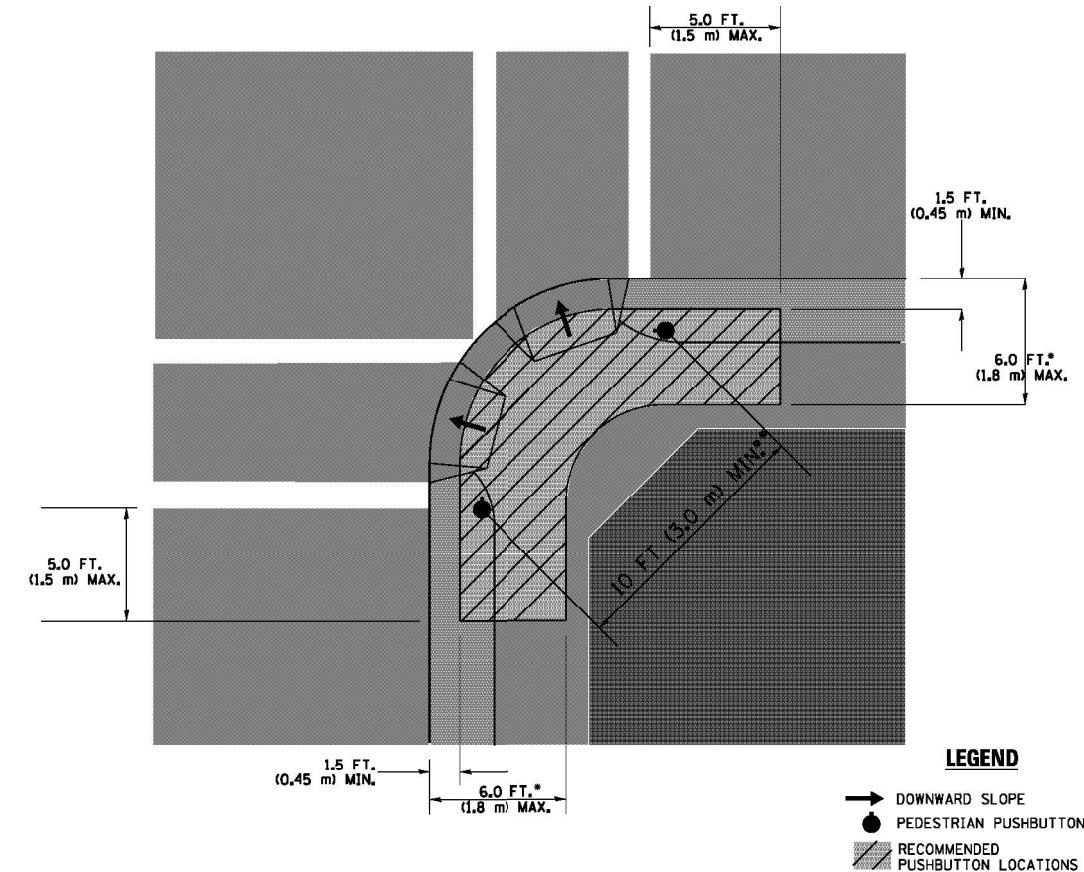
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

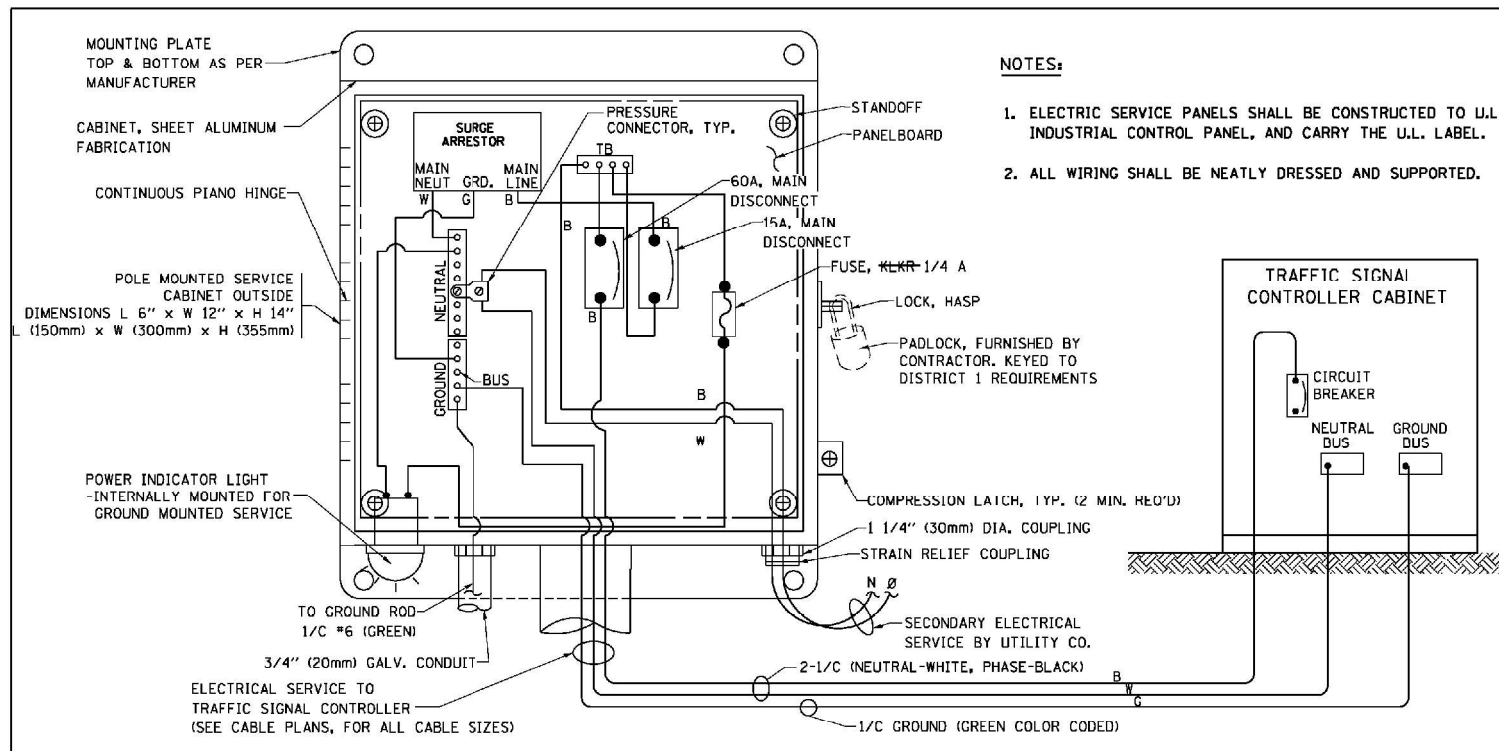
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

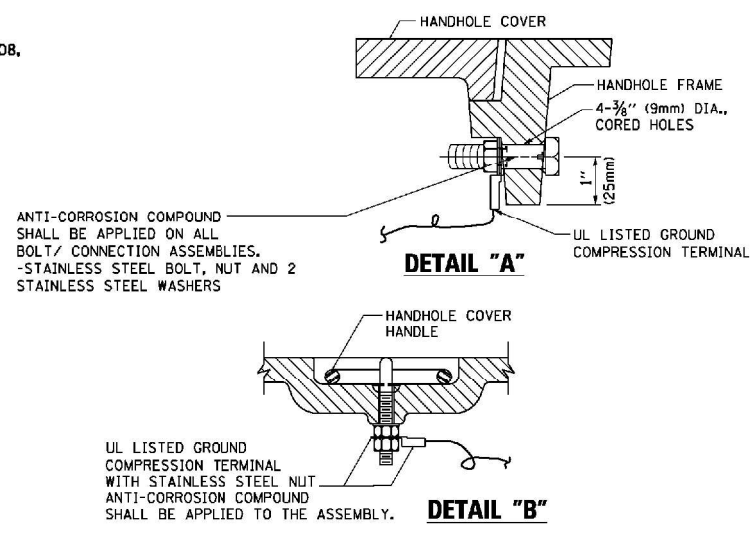
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

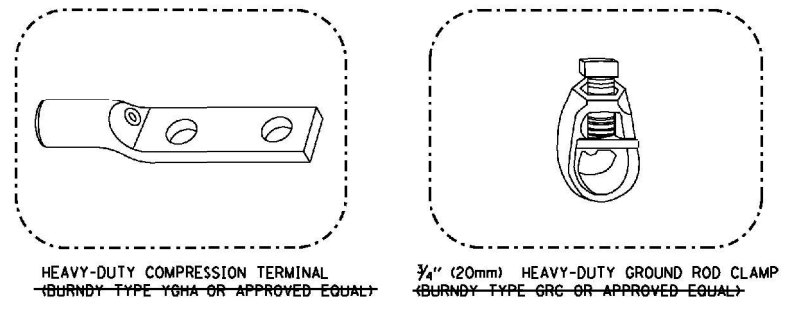
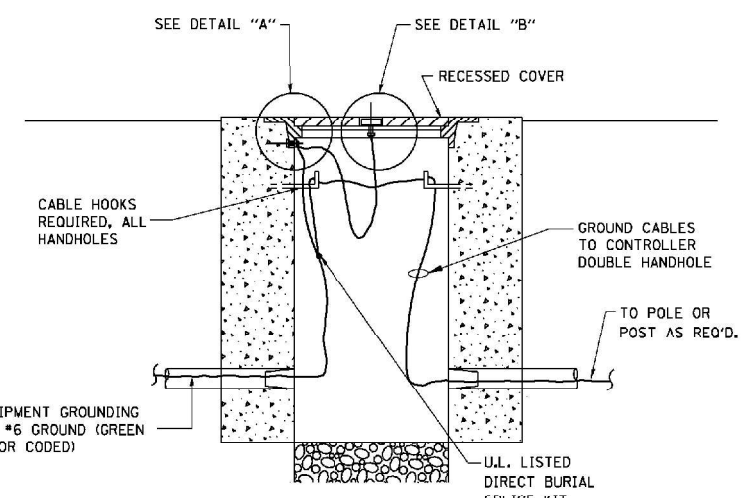


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

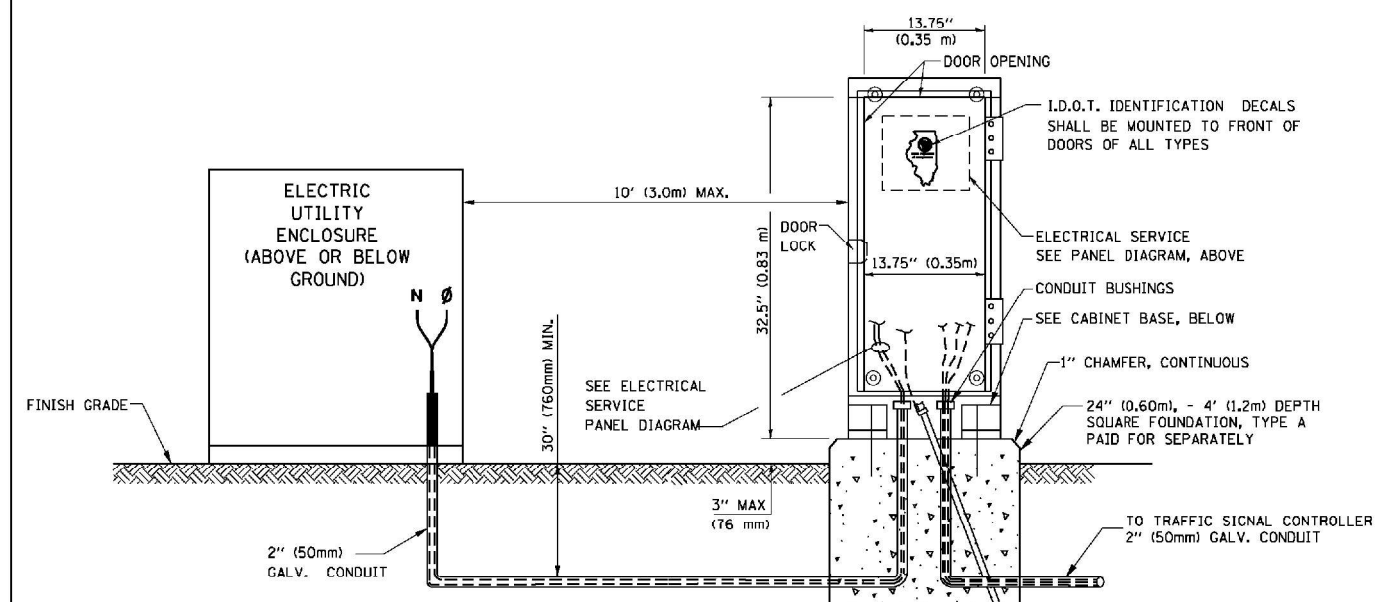
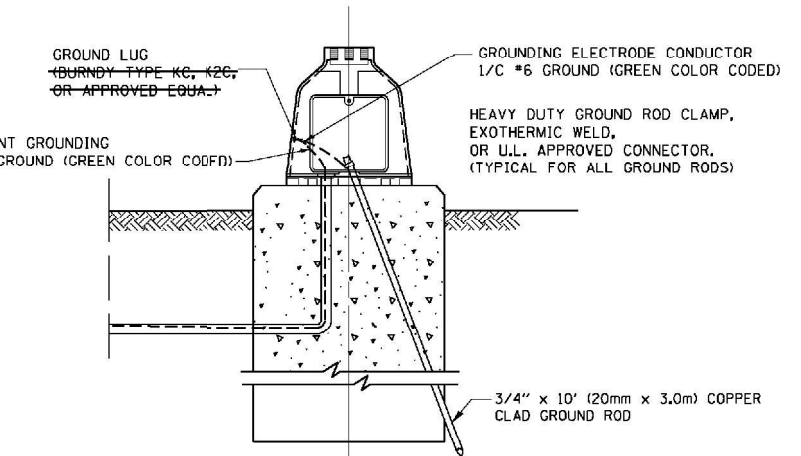
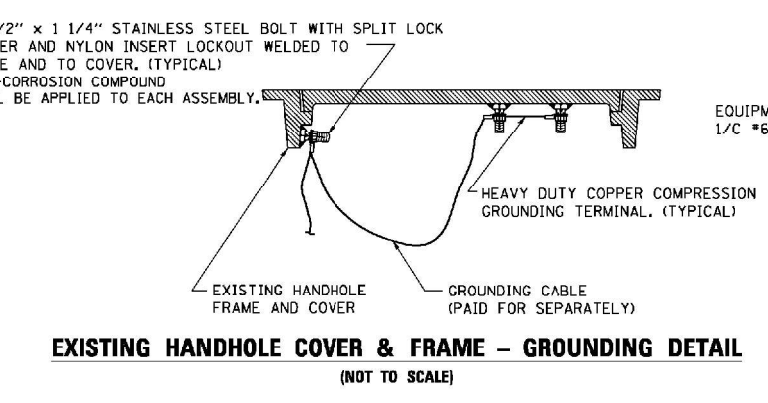


NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

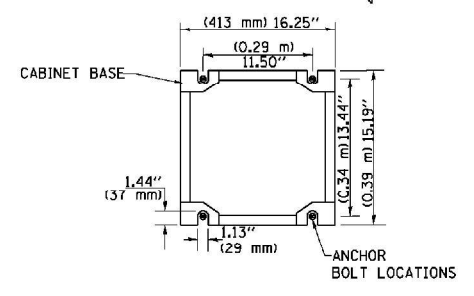


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

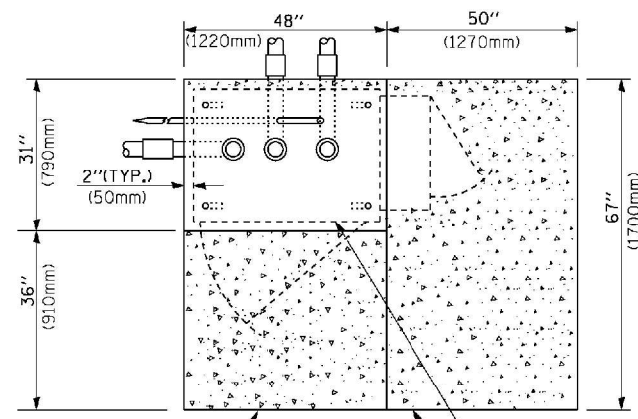


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

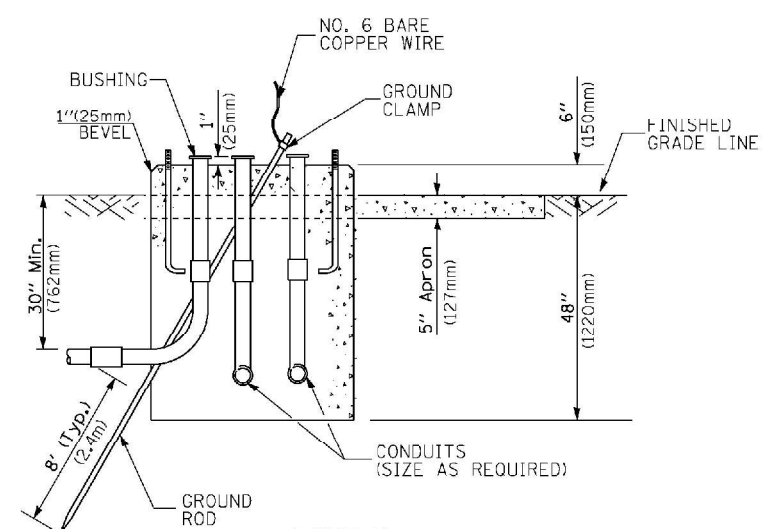
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



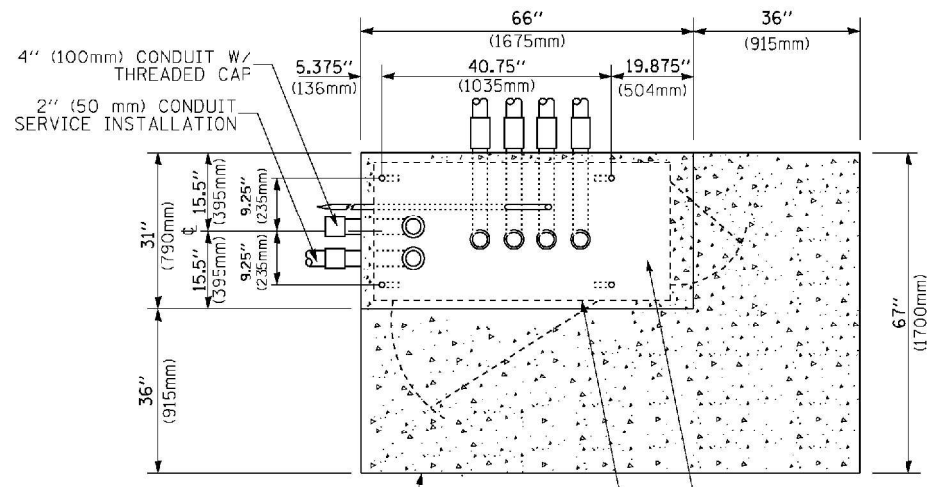
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PLT DATE = 1/13/2014	DATE - 10-28-09	CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 62H03		
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



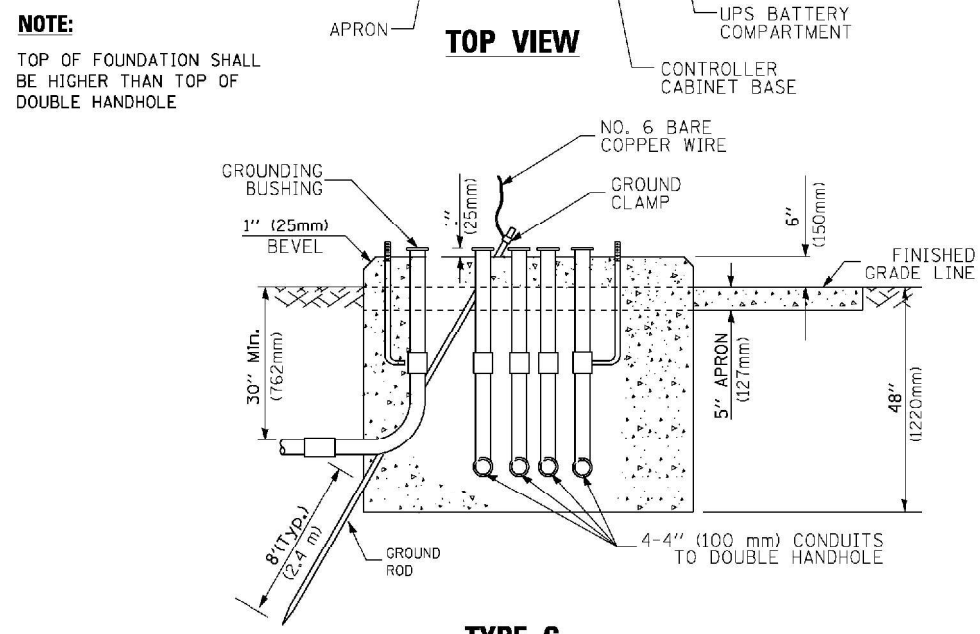
TOP VIEW



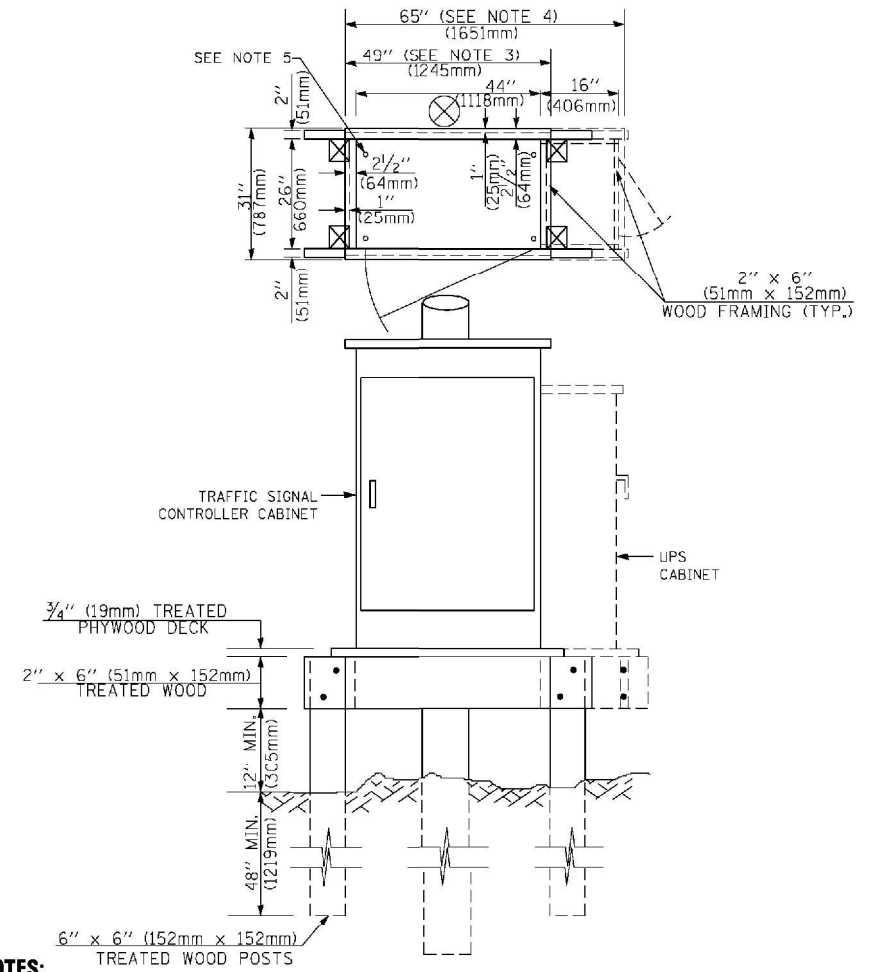
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

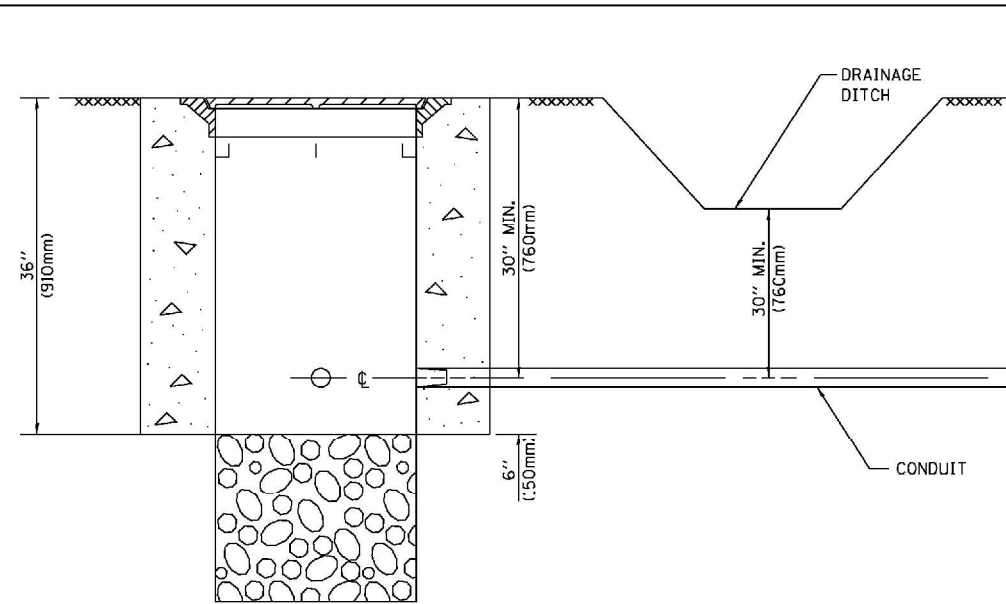
FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER w/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (q_u) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 3. Combination mast arm assemblies under 55 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 4. For mast arm assemblies with dual arms refer to state standard 878001..

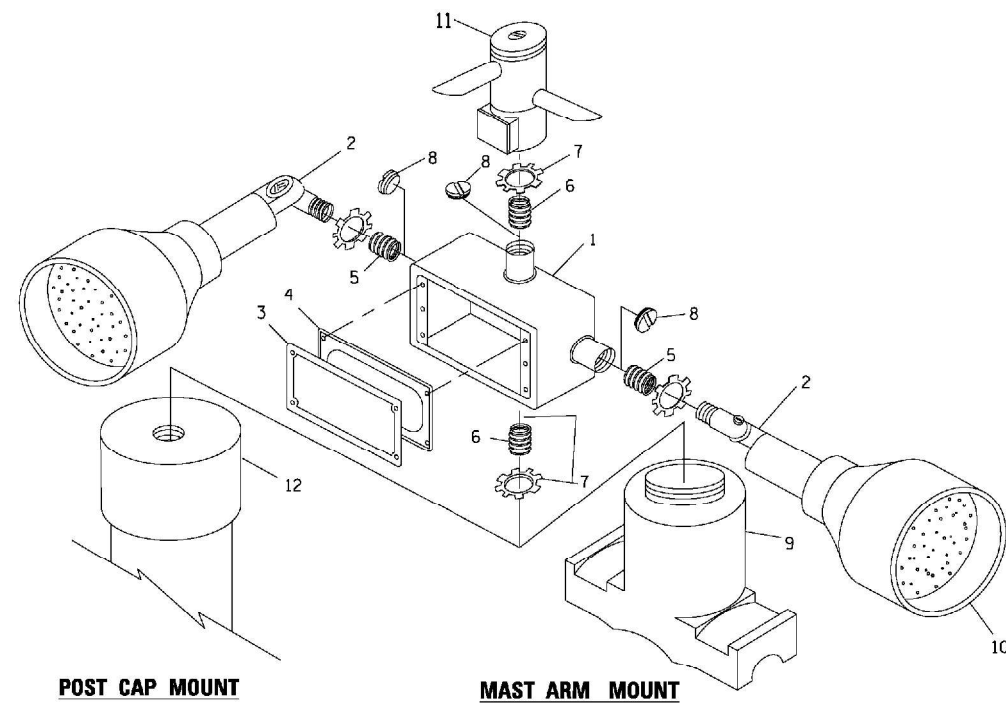
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

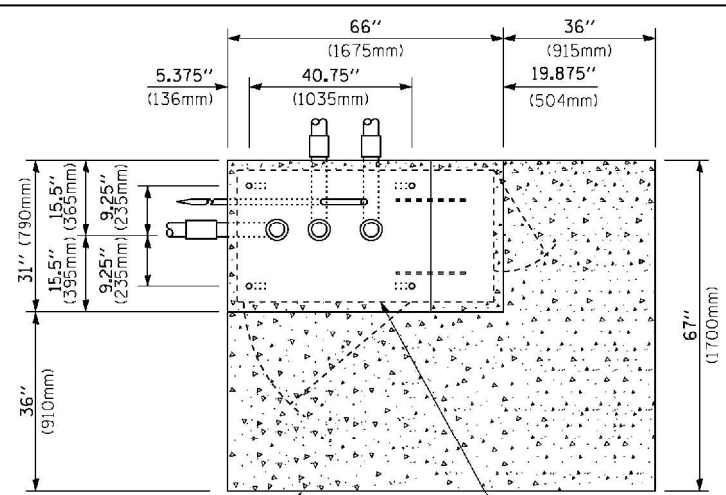


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

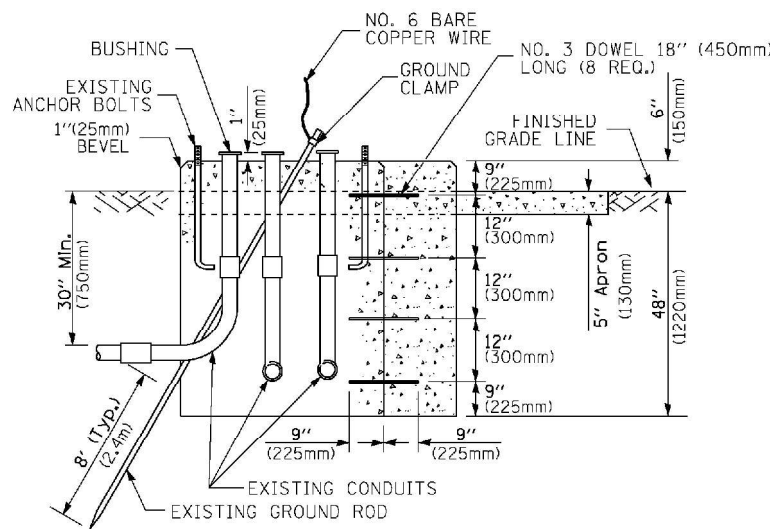
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

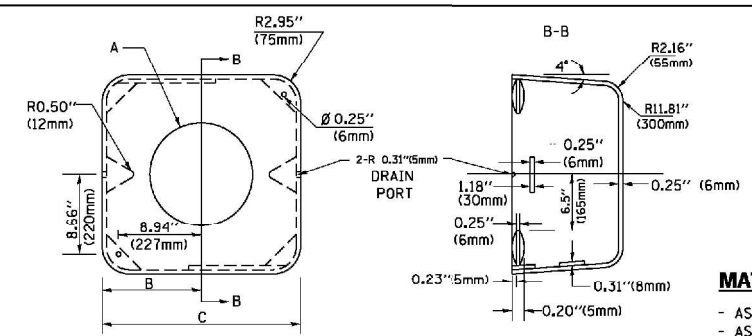
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1 - OZ/GEENEY FSX 150 OR EQUIVALENT
ITEM #2 - MULBERRY CON O SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9 - "BAND IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



TOP VIEW
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

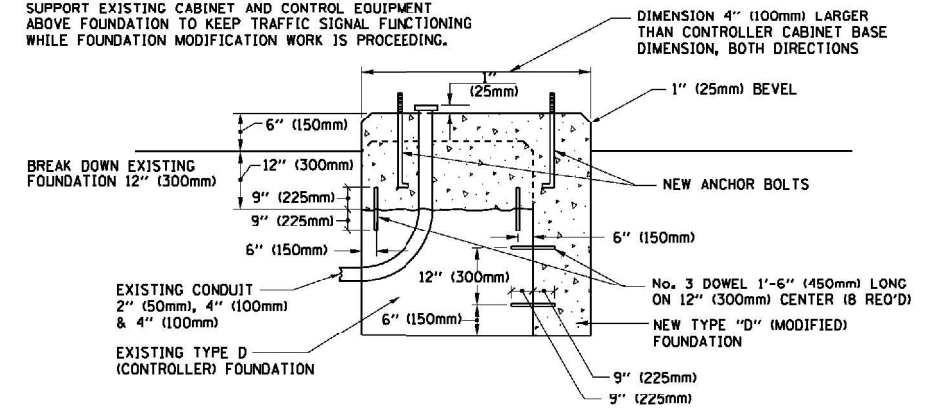
SHROUD

NOTES:

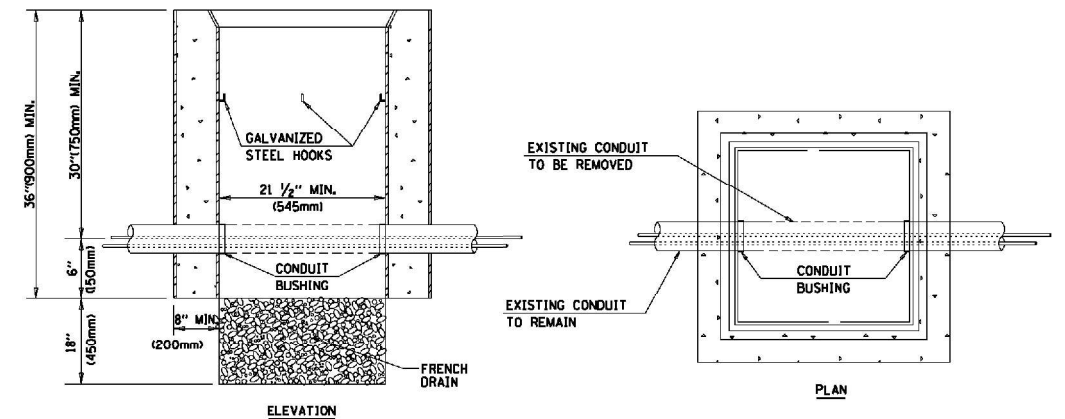
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 81400L.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

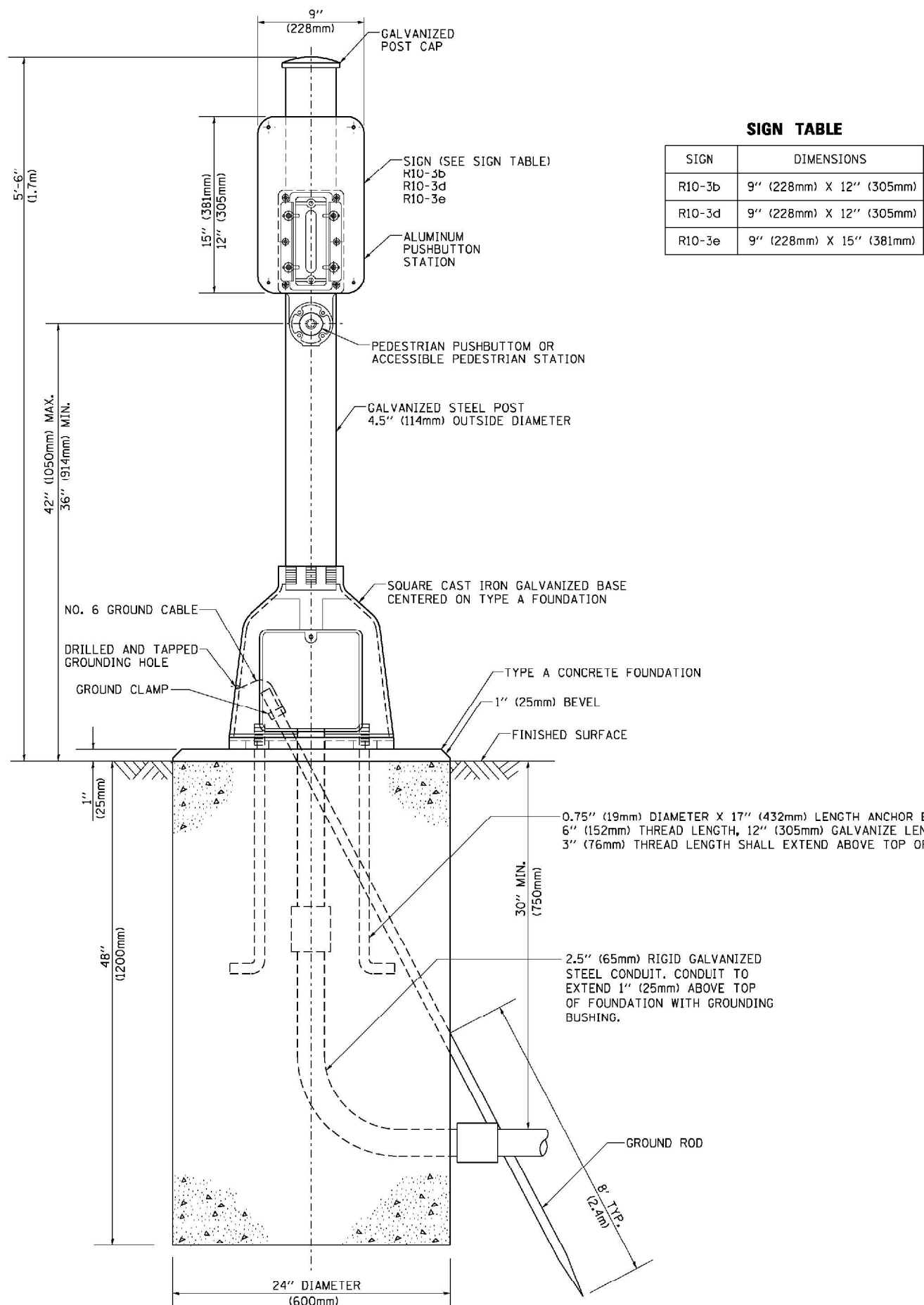
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

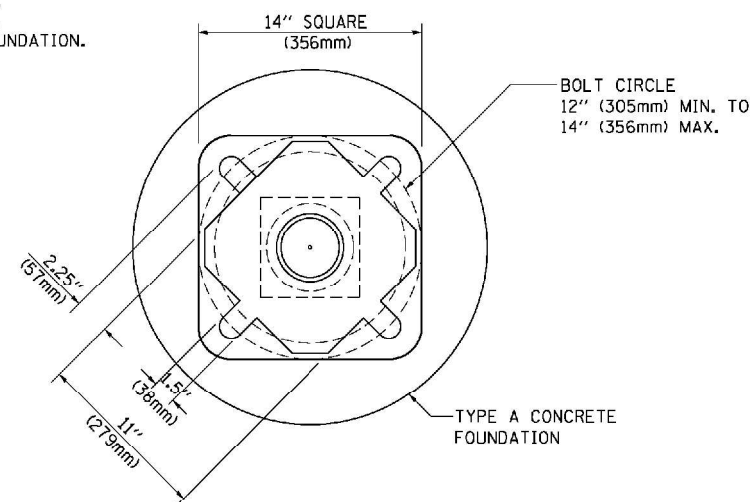
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	120
TS-05		CONTRACT NO.	62H03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

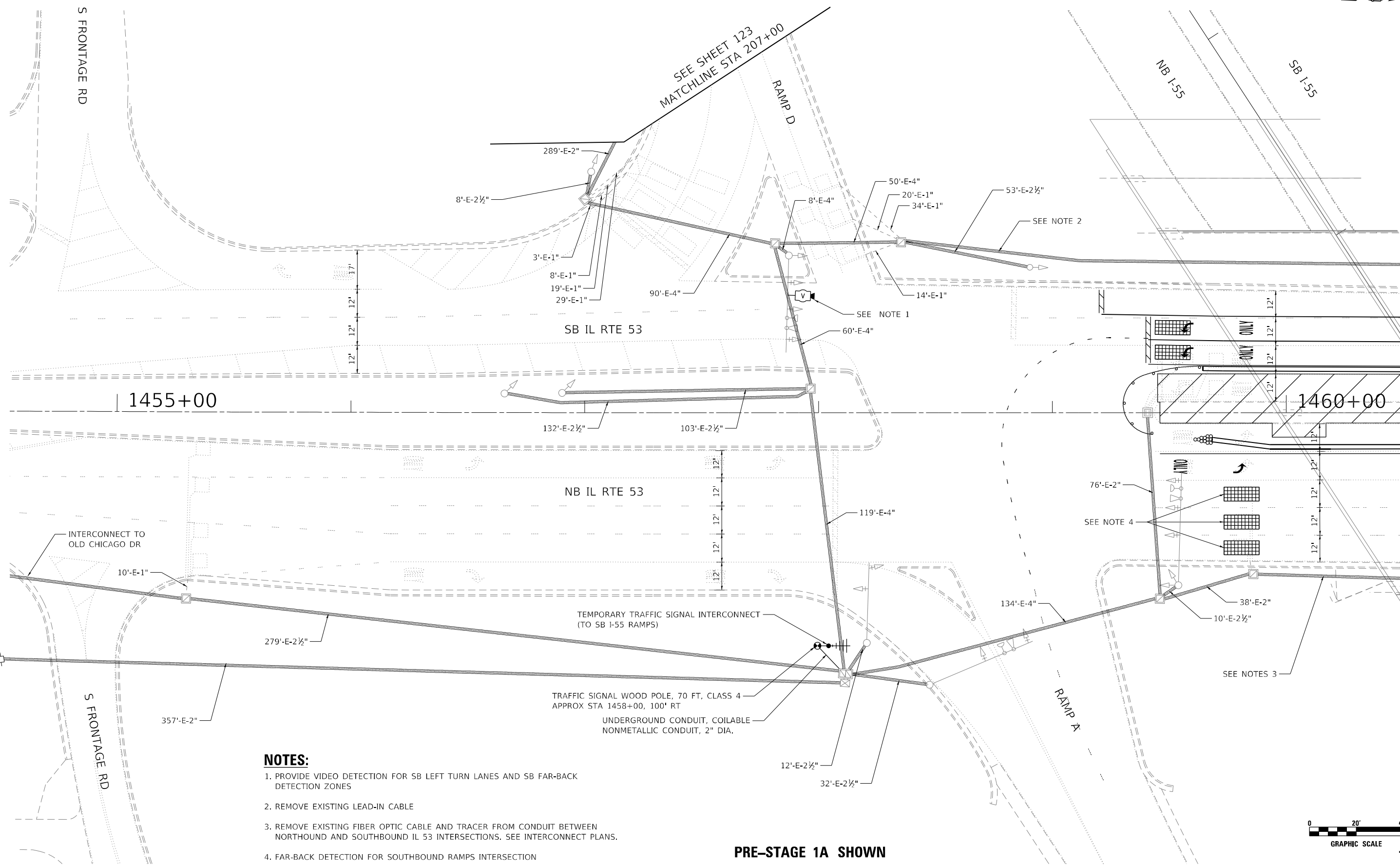
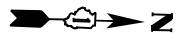
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

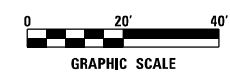
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TS-05			CONTRACT NO. 62H03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
1. PROVIDE VIDEO DETECTION FOR SB LEFT TURN LANES AND SB FAR-BACK DETECTION ZONES
 2. REMOVE EXISTING LEAD-IN CABLE
 3. REMOVE EXISTING FIBER OPTIC CABLE AND TRACER FROM CONDUIT BETWEEN NORTHBOUND AND SOUTHBOUND IL 53 INTERSECTIONS. SEE INTERCONNECT PLANS.
 4. FAR-BACK DETECTION FOR SOUTHBOUND RAMPS INTERSECTION

TRAFFIC SIGNAL WOOD POLE, 70 FT, CLASS 4
APPROX STA 1458+00, 100' RT
UNDERGROUND CONDUIT, COILABLE
NONMETALLIC CONDUIT, 2" DIA.

PRE-STAGE 1A SHOWN



MATCHLINE STA 1460+25
SEE SHEET 128

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	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL PLAN
IL ROUTE 53 AT NORTHBOUND I-55 RAMPS**

SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. 1454+60 TO STA. 1460+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	122
CONTRACT NO. 62H03				

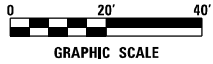
**TS 7355
ECON 68**

ILLINOIS FED. AID PROJECT



289'-E-2"
RAMP D

MATCHLINE STA 207+00
SEE SHEET 122



TS 7355
ECON 68

DATE PLOTTED = 4/14/2021 9:12:17 AM
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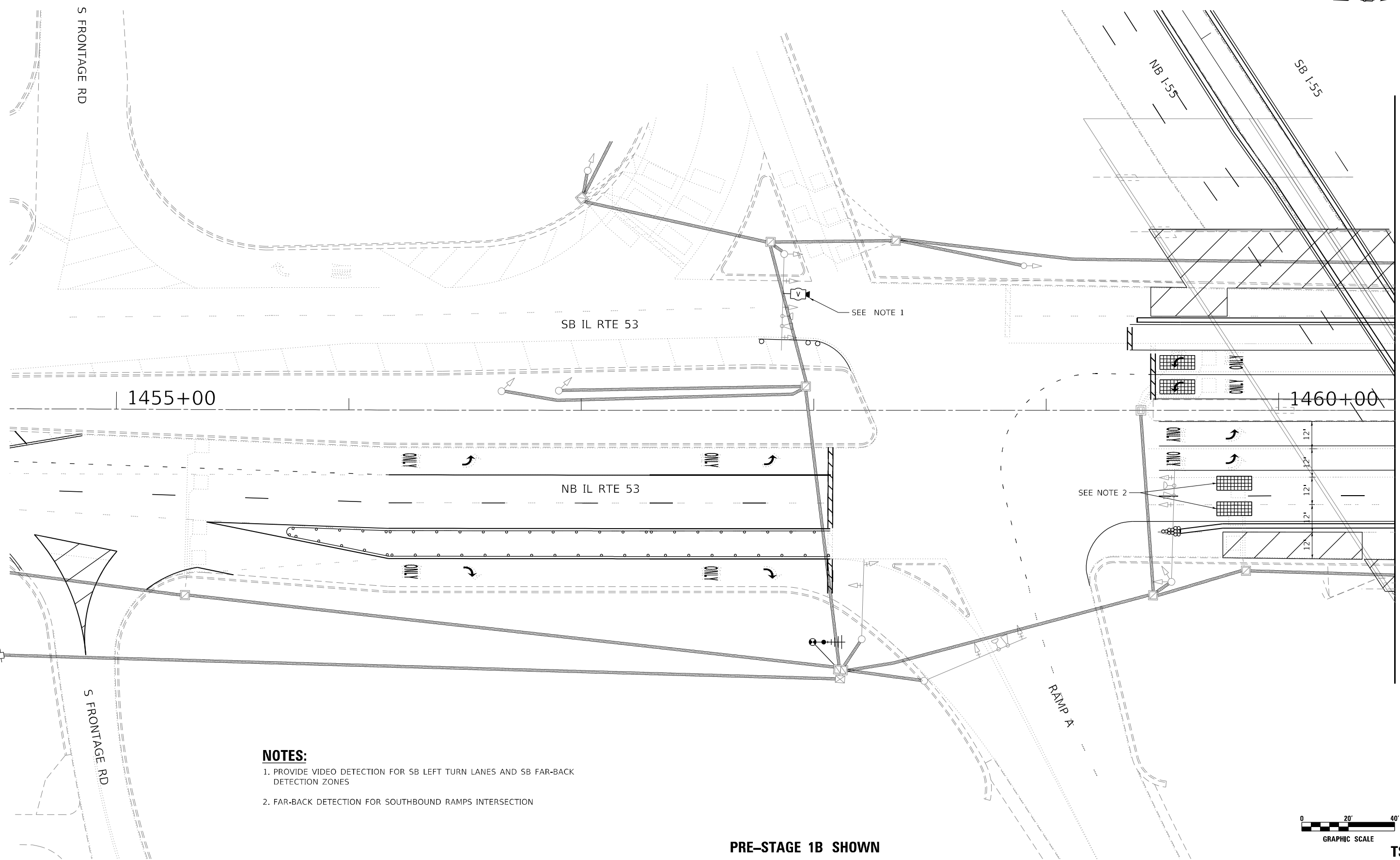
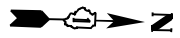


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PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL PLAN
IL ROUTE 53 AT NORTHBOUND AND SOUTHBOUND I-55 RAMPS
SCALE: 1" = 20' SHEET NO. 2 OF 3 SHEETS STA. 1454+60 TO STA. 1460+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	123
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

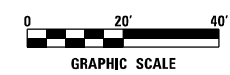


MATCHLINE STA 1460+25
SEE SHEET 129

NOTES:

1. PROVIDE VIDEO DETECTION FOR SB LEFT TURN LANES AND SB FAR-BACK DETECTION ZONES
2. FAR-BACK DETECTION FOR SOUTHBOUND RAMPS INTERSECTION

PRE-STAGE 1B SHOWN



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USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

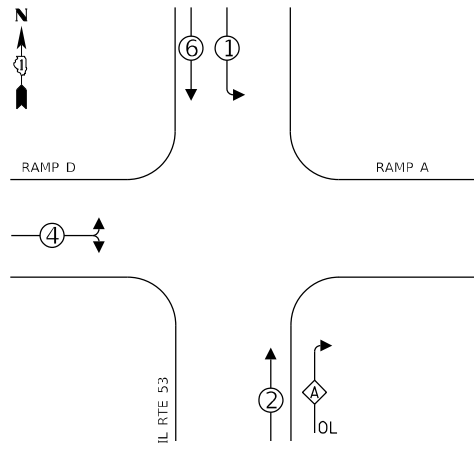
I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL PLAN
IL ROUTE 53 AT NORTHBOUND I-55 RAMPS

SCALE: 1" = 20' SHEET NO. 3 OF 3 SHEETS STA. 1454+60 TO STA. 1460+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	124
CONTRACT NO. 62H03				

TS 7355
ECON 68

CONTROLLER SEQUENCE

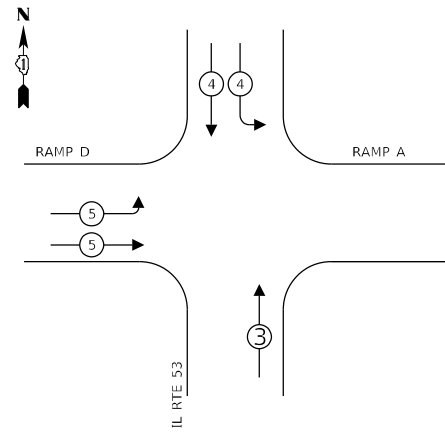


LEGEND:

- ← ⊛ ← PROTECTED PHASE
- ← ⊛ - - PROTECTED/PERMITTED PHASE
- ← ⊛ OL OVERLAP

OVERLAP LETTER A = PERMISSIVE PHASE 2 + PROTECTED PHASE 4

EMERGENCY VEHICLE PREEMPTION SEQUENCE



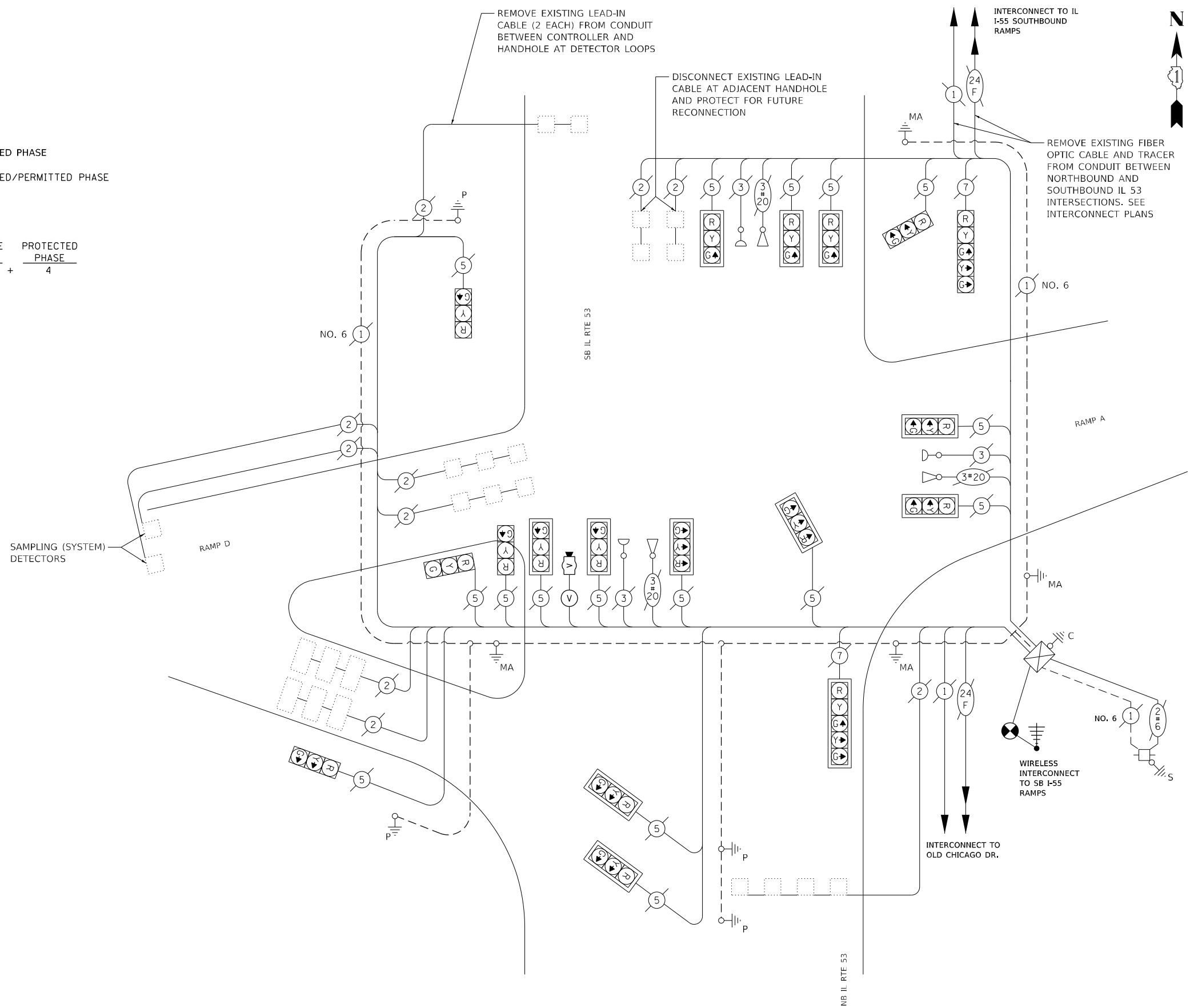
**IL 53 AT I-55 NORTH RAMPS
TEMP TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	100	-
LUMINAIRE	-	250	50	-
TOTAL =				468.2

ENERGY COSTS TO:

VILLAGE OF BOLINGBROOK
375 W. BRIARCLIFF ROAD
BOLINGBROOK, IL 60440-3829

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

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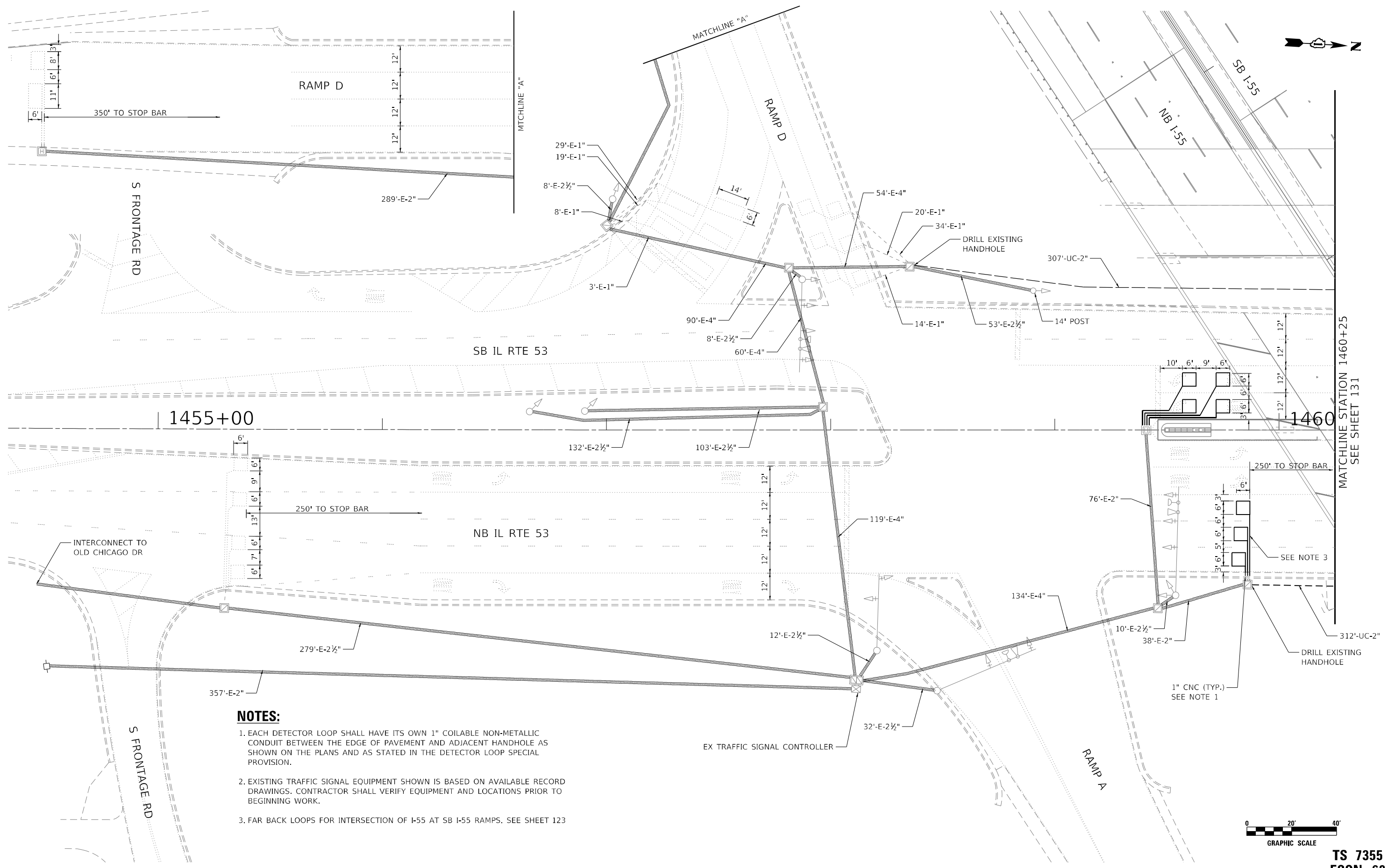
REVISD -
REVISD -
CHECKED - JMV
DATE - 3/16/2021

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY PREEMPTION SEQUENCE
IL 53 AT I-55 NORTHBOUND RAMPS**

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 125
SCALE: 1" = 20'			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

**TS 7355
ECON 68**



- NOTES:**
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
 2. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN IS BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.
 3. FAR BACK LOOPS FOR INTERSECTION OF I-55 AT SB I-55 RAMPS. SEE SHEET 123

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USER NAME = untitled	DESIGNED - DTJ	REVISED -
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	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

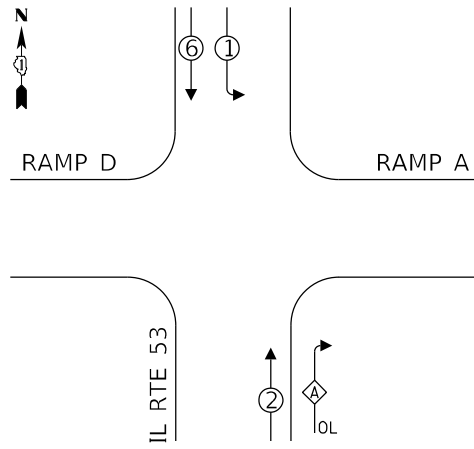
I-55 OVER IL 53 BRIDGE REHABILITATION
TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 53 AT NORTHBOUND I-55 RAMPS

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 1454+60 TO STA. 1460+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	126
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

TS 7355
ECON 68

CONTROLLER SEQUENCE

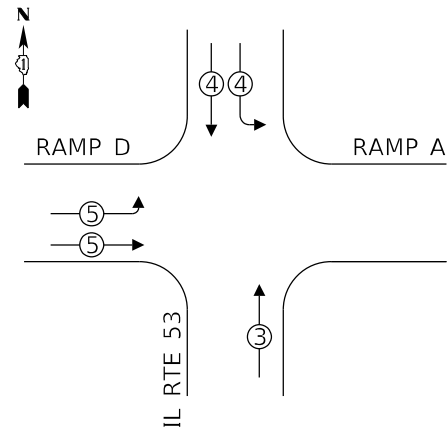


LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - - ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ OL → OVERLAP

OVERLAP LETTER A = $\frac{\text{PERMISSIVE PHASE}}{2} + \frac{\text{PROTECTED PHASE}}{4}$

EMERGENCY VEHICLE PREEMPTION SEQUENCE



**IL 53 AT I-55 NORTH RAMPS
TEMP TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREEN NAME SIGN	-	120	100	-
LUMINAIRE	-	250	50	-
TOTAL =				318.20

ENERGY COSTS TO:

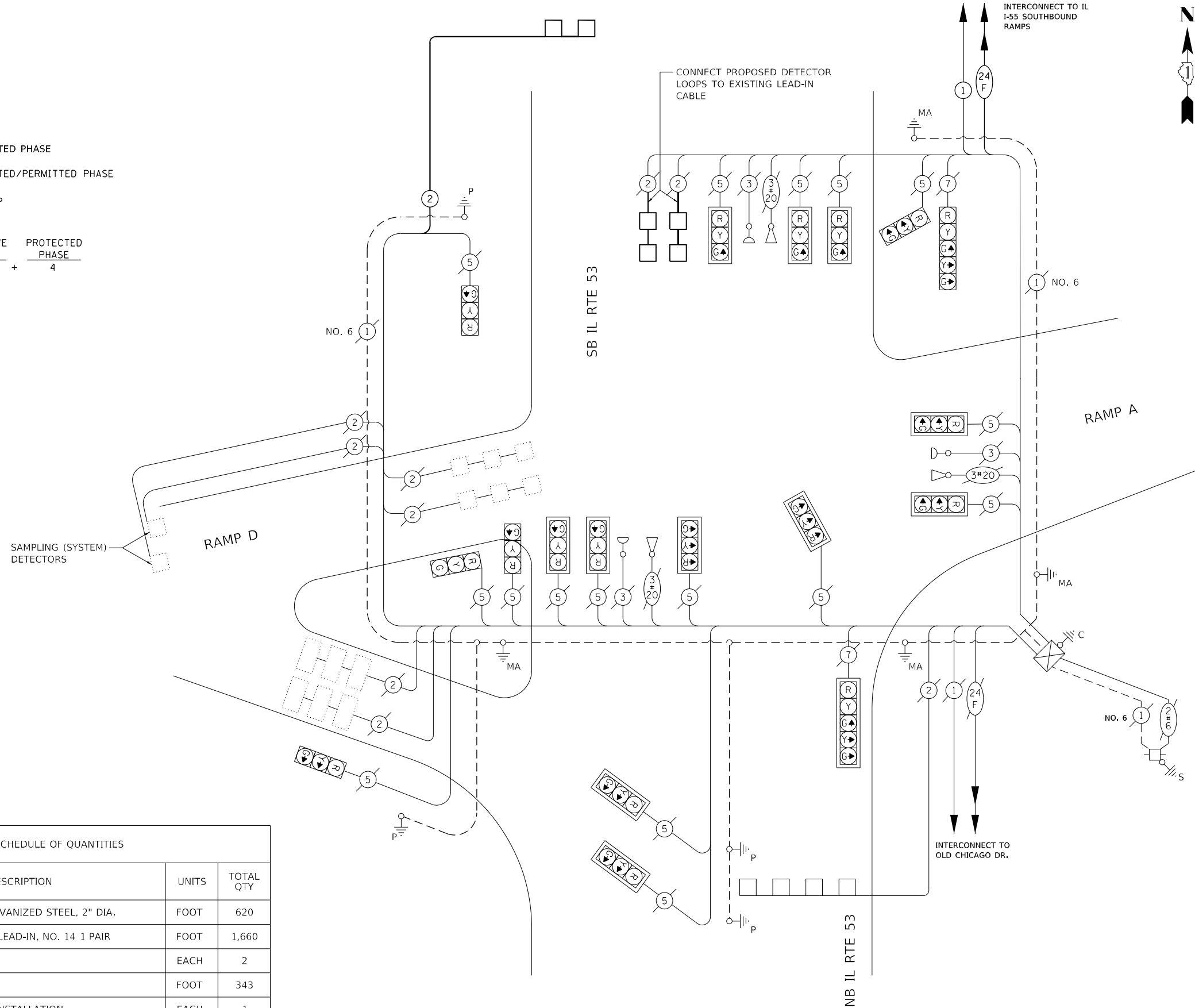
VILLAGE OF BOLINGBROOK
375 W. BRIARCLIFF ROAD
BOLINGBROOK, IL 60440-3829

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	620
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,660
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	343
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,660
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

SAMPLING (SYSTEM) DETECTORS

**CABLE PLAN
(NOT TO SCALE)**



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PLOT DATE = 4/14/2021

DESIGNED - DTJ
DRAWN - DTJ
CHECKED - JMV
DATE - 3/16/2021

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY PREEMPTION SEQUENCE
IL ROUTE 53 AT NORTHBOUND I-55 RAMPS**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

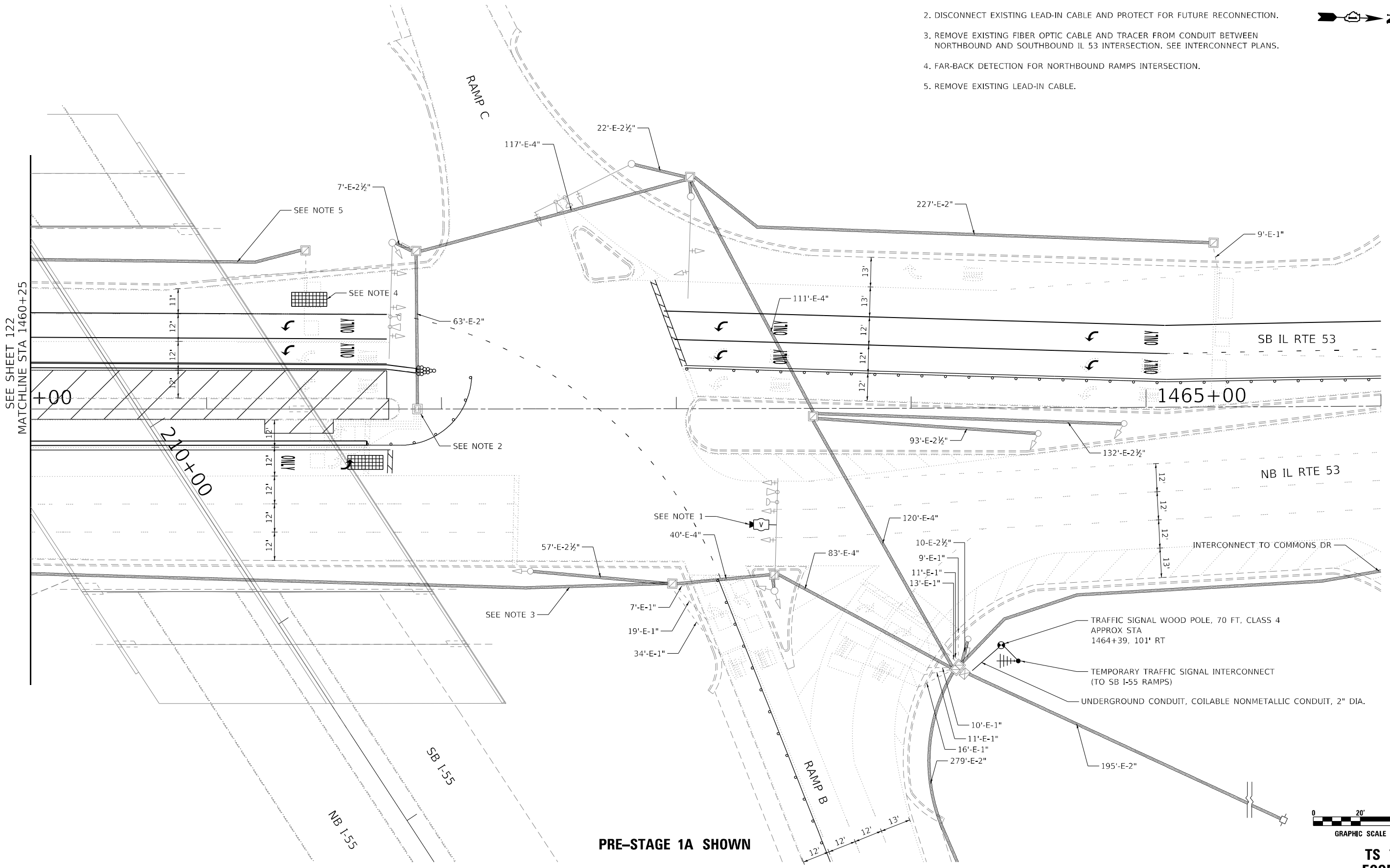
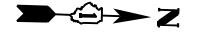
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	127

CONTRACT NO. 62H03
ILLINOIS FED. AID PROJECT

**TS 7355
ECON 68**

NOTES:

1. PROVIDE VIDEO DETECTION FOR NB LEFT TURN LANES AND FOR NB FAR-BACK DETECTION ZONES.
2. DISCONNECT EXISTING LEAD-IN CABLE AND PROTECT FOR FUTURE RECONNECTION.
3. REMOVE EXISTING FIBER OPTIC CABLE AND TRACER FROM CONDUIT BETWEEN NORTHBOUND AND SOUTHBOUND IL 53 INTERSECTION. SEE INTERCONNECT PLANS.
4. FAR-BACK DETECTION FOR NORTHBOUND RAMPS INTERSECTION.
5. REMOVE EXISTING LEAD-IN CABLE.



PRE-STAGE 1A SHOWN

TS 7356
ECON 68

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

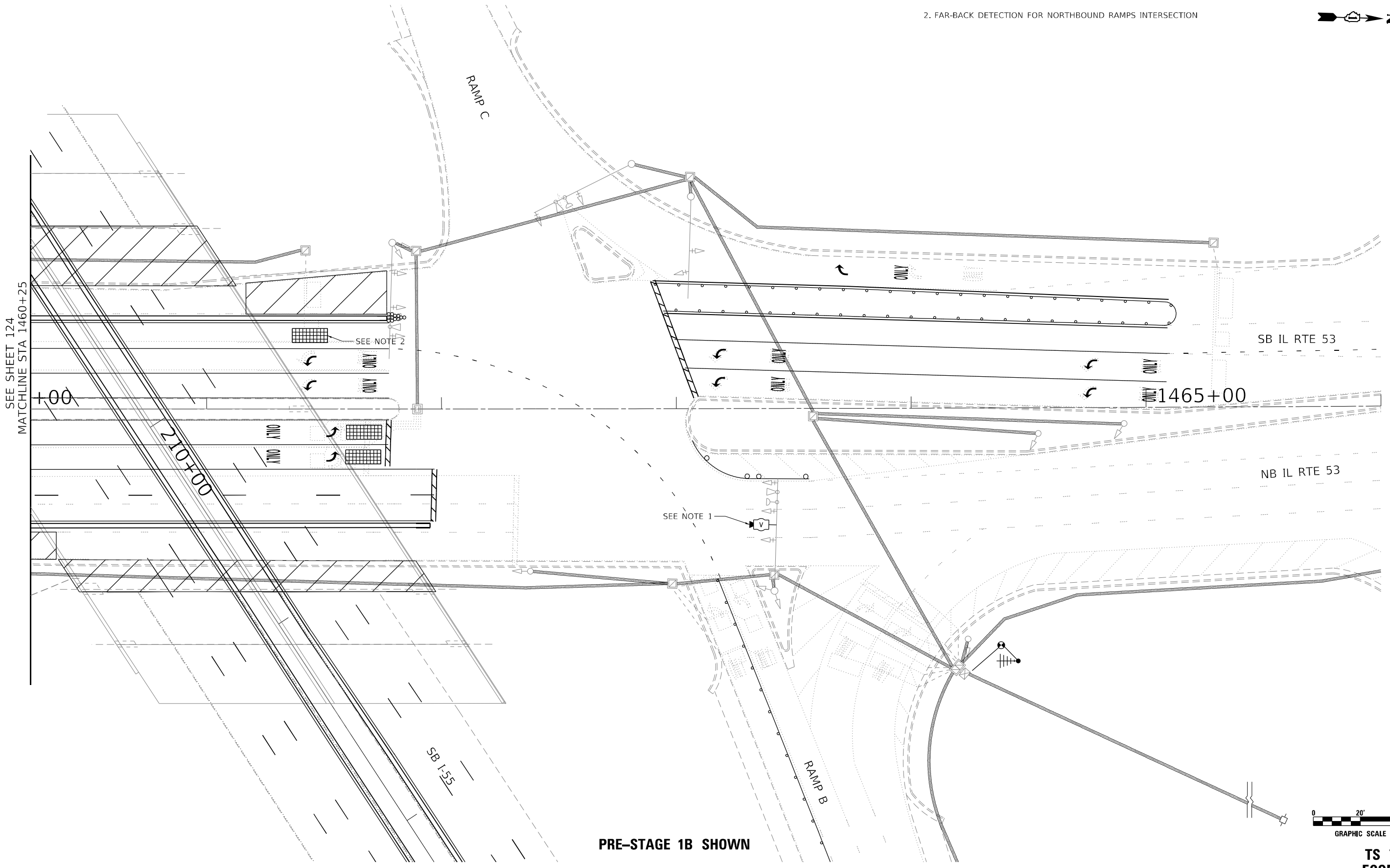
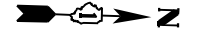
I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL PLAN
IL 53 AT I-55 SOUTHBOUND RAMPS

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 1460+25 TO STA. 1466+00

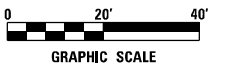
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	128
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES:

1. PROVIDE VIDEO DETECTION FOR NB LEFT TURN LANES AND FOR NB FAR-BACK DETECTION ZONES.
2. FAR-BACK DETECTION FOR NORTHBOUND RAMP INTERSECTION



PRE-STAGE 1B SHOWN



TS 7356
ECON 68

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	DRAWN - DTJ	REVISED -
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PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

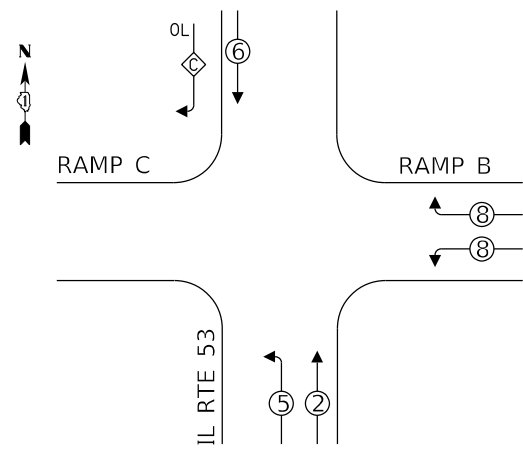
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL PLAN
IL 53 AT I-55 SOUTHBOUND RAMP

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 1460+25 TO STA. 1466+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	129
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

CONTROLLER SEQUENCE

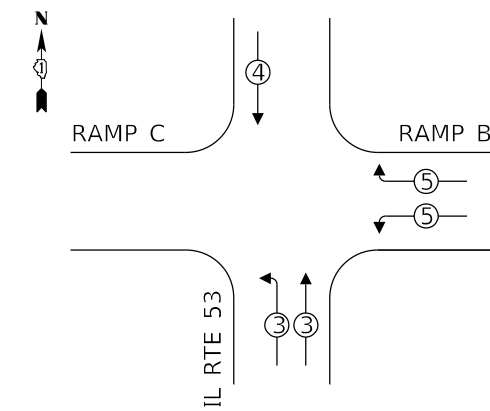


LEGEND:

- ← * → PROTECTED PHASE
- ← OL → OVERLAP

OVERLAP LETTER C = PERMISSIVE PHASE 6 + PROTECTED PHASE 8

EMERGENCY VEHICLE PREEMPTION SEQUENCE



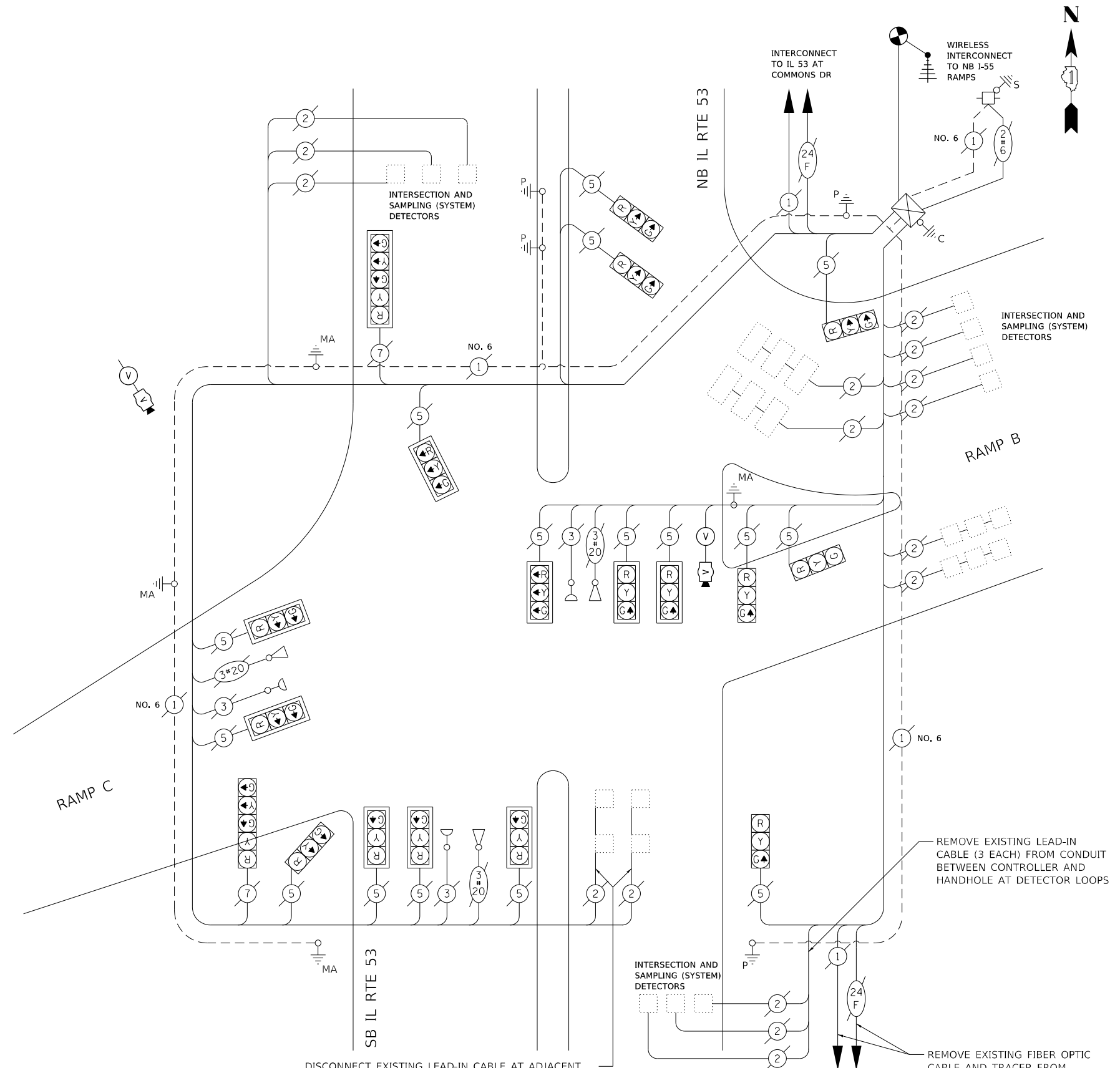
IL 53 AT I-55 SB RAMPS TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PROTECTED ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
SCREEN NAME SIGN	-	120	100	-
LUMINAIRE	-	250	50	-
TOTAL =				468.20

ENERGY COSTS TO:

VILLAGE OF BOLINGBROOK
375 W. BRIARCLIFF ROAD
BOLINGBROOK, IL 60440-3829

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

DISCONNECT EXISTING LEAD-IN CABLE AT ADJACENT HANDHOLE AND PROTECT FOR FUTURE RECONNECTION

REMOVE EXISTING LEAD-IN CABLE (3 EACH) FROM CONDUIT BETWEEN CONTROLLER AND HANDHOLE AT DETECTOR LOOPS

REMOVE EXISTING FIBER OPTIC CABLE AND TRACER FROM CONDUIT BETWEEN NORTHBOUND AND SOUTHBOUND IL 53 INTERSECTIONS. SEE INTERCONNECT PLANS

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DRAWN - DTJ
PLOT SCALE = 40.0001 ft / in.
PLOT DATE = 4/14/2021

REVISOR -
REVISION -
CHECKED - JMV
DATE - 3/16/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY TRAFFIC SIGNAL CABLE PLAN
IL 53 AT SOUTHBOUND I-55 RAMPS

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	130

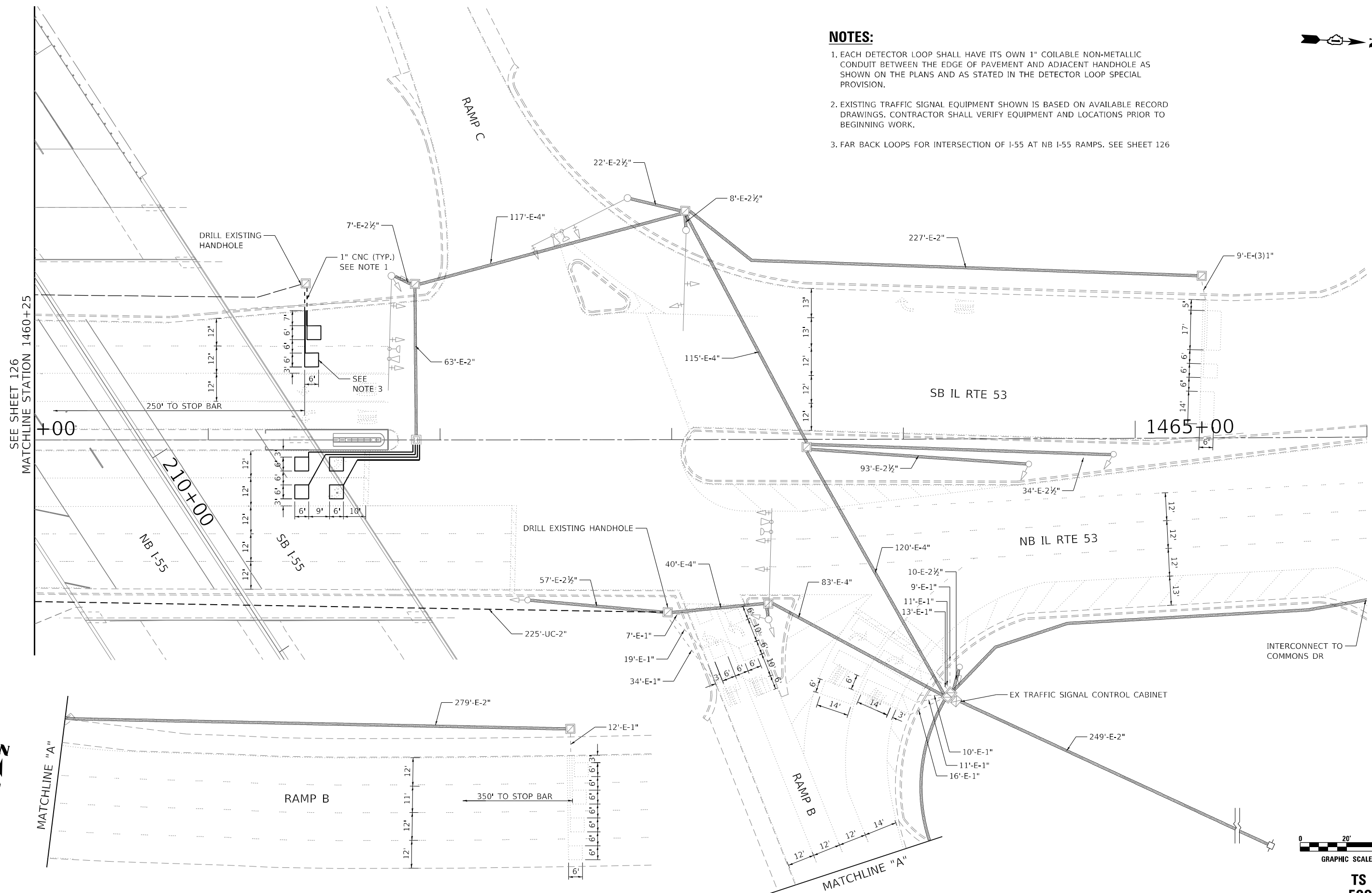
CONTRACT NO. 62H03
ILLINOIS FED. AID PROJECT

TS 7356
ECON 68



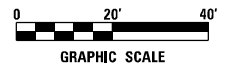
NOTES:

- 1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
- 2. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN IS BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.
- 3. FAR BACK LOOPS FOR INTERSECTION OF I-55 AT NB I-55 RAMPS. SEE SHEET 126



INTERCONNECT TO COMMONS DR

EX TRAFFIC SIGNAL CONTROL CABINET



**TS 7356
ECON 68**

DATE PLOTTED = 4/14/2021 9:12:23 AM
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PLOT DATE = 4/14/2021	CHECKED - JMV	REVISED -
	DATE - 3/16/2021	REVISED -

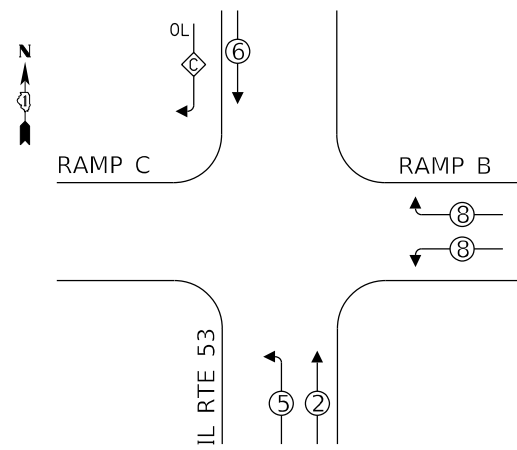
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 53 AT SOUTHBOUND I-55 RAMPS**

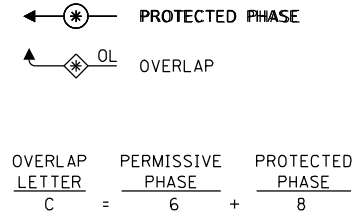
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 1460+25 TO STA. 1466+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	131
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

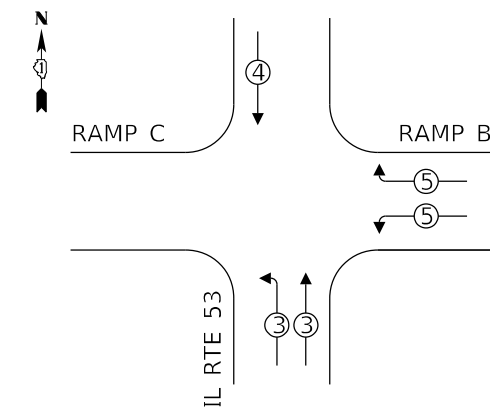
CONTROLLER SEQUENCE



LEGEND:



EMERGENCY VEHICLE PREEMPTION SEQUENCE



**IL 53 AT I-55 SB RAMPS
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREFF NAME SIGN	-	120	100	-
LUMINAIRE	-	250	50	-
TOTAL =				318.2

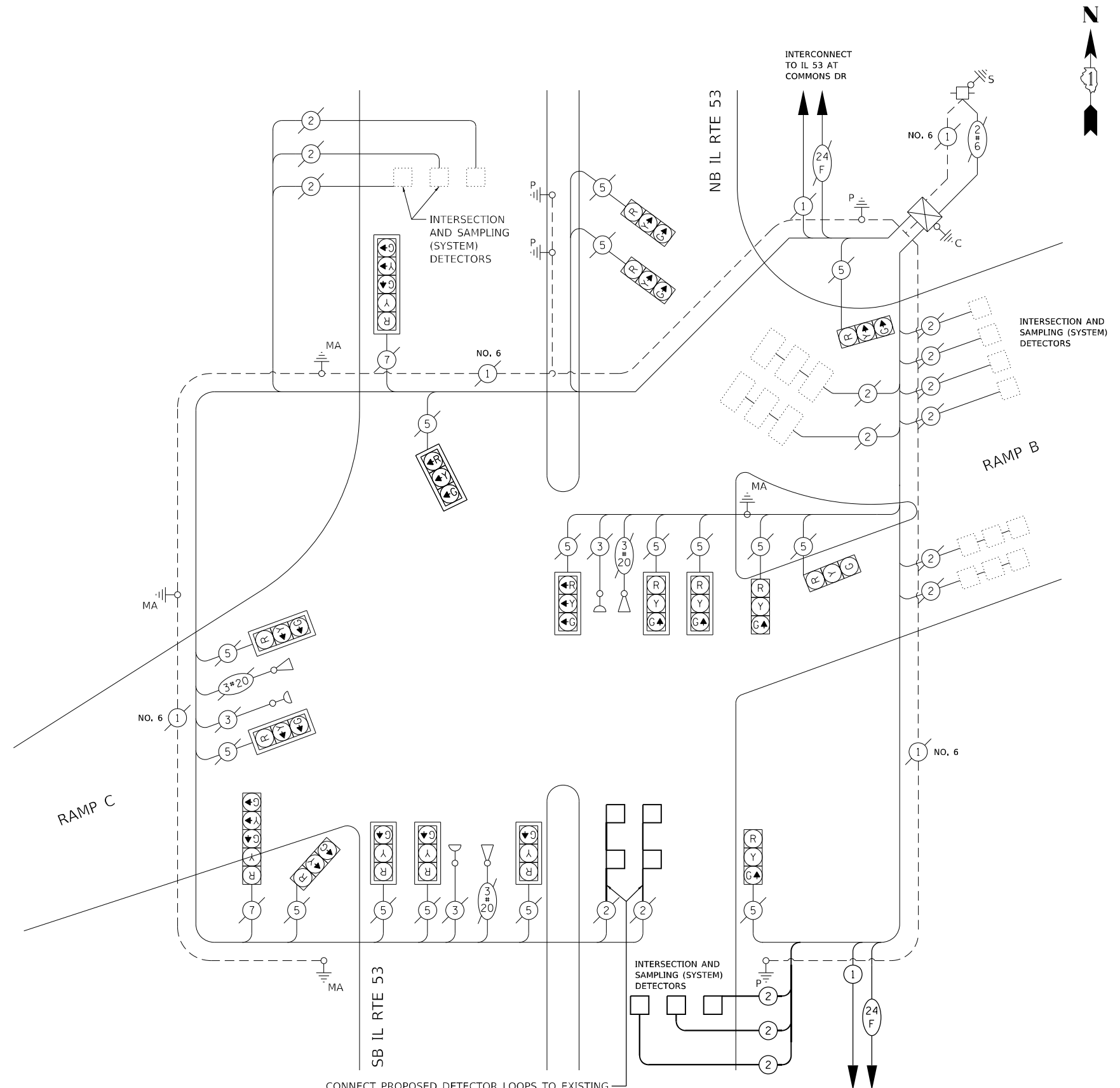
ENERGY COSTS TO:

VILLAGE OF BOLINGBROOK
375 W. BRIARCLIFF ROAD
BOLINGBROOK, IL 60440-3829

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,082
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	362
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,082
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



CABLE PLAN
(NOT TO SCALE)

CONNECT PROPOSED DETECTOR LOOPS TO EXISTING LEAD-IN CABLE AT ADJACENT HANDHOLE

INTERCONNECT TO IL I-55 NORTHBOUND RAMPS

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CHECKED - JMV
DATE - 3/16/2021

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY PREEMPTION SEQUENCE
IL ROUTE 53 AT SOUTHBOUND I-55 RAMPS**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

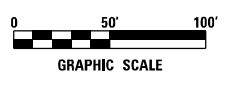
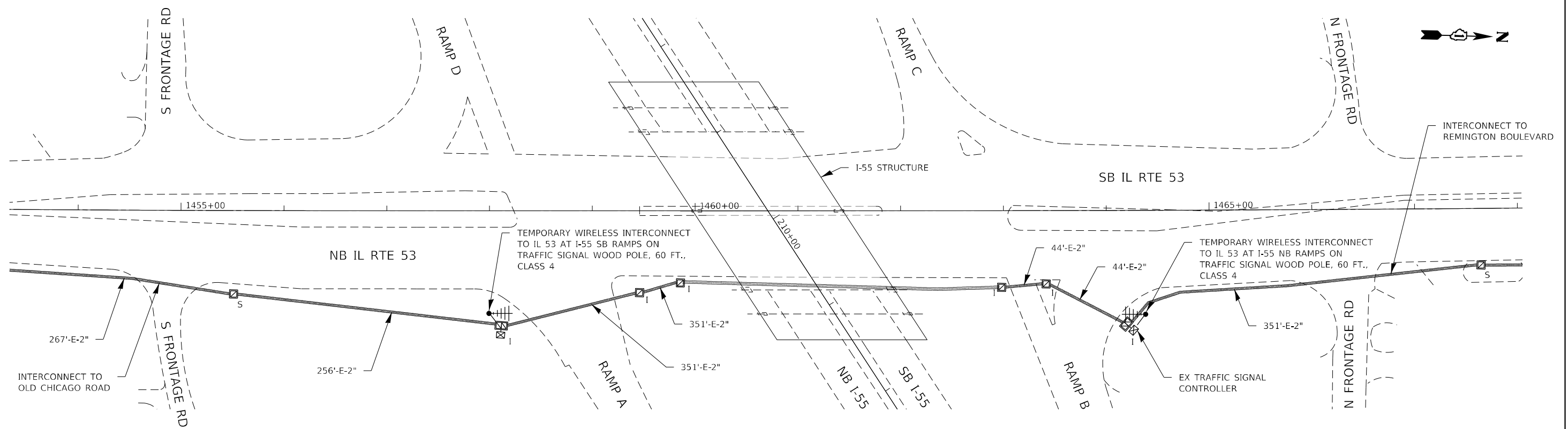
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	132

CONTRACT NO. 62H03
ILLINOIS FED. AID PROJECT

**TS 7356
ECON 68**

NOTES:

- EXISTING INTERCONNECT BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR TO VERIFY EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.



ECON 68

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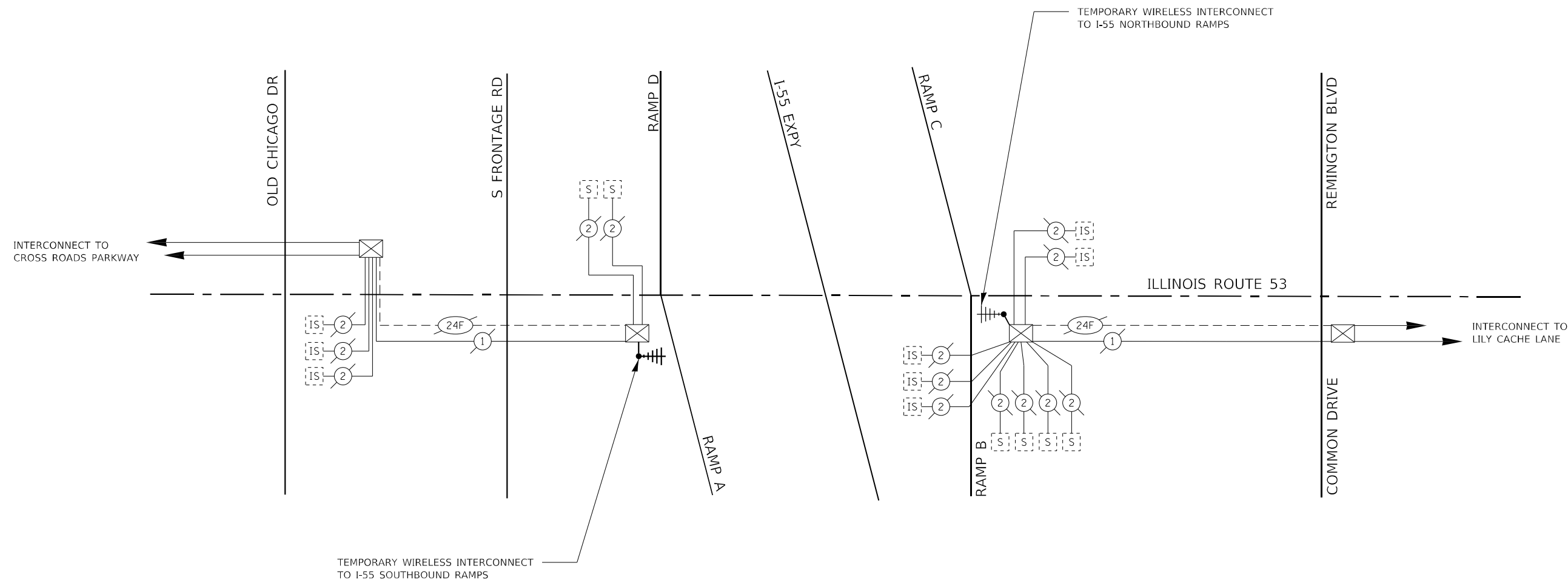
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY INTERCONNECT PLAN
OLD CHICAGO DR TO REMINGTON BLVD

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	133
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



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ECON 68



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

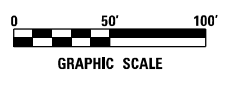
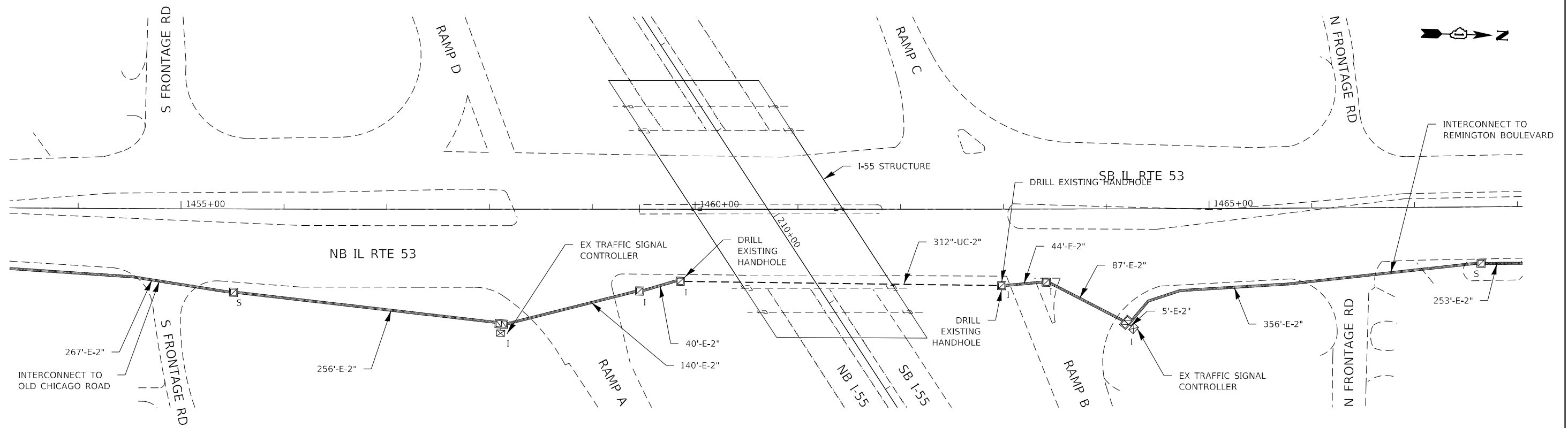
I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY INTERCONNECT SCHEMATIC
OLD CHICAGO DR TO REMINGTON BLVD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 134
			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

NOTES:

- EXISTING INTERCONNECT BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR TO VERIFY EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.



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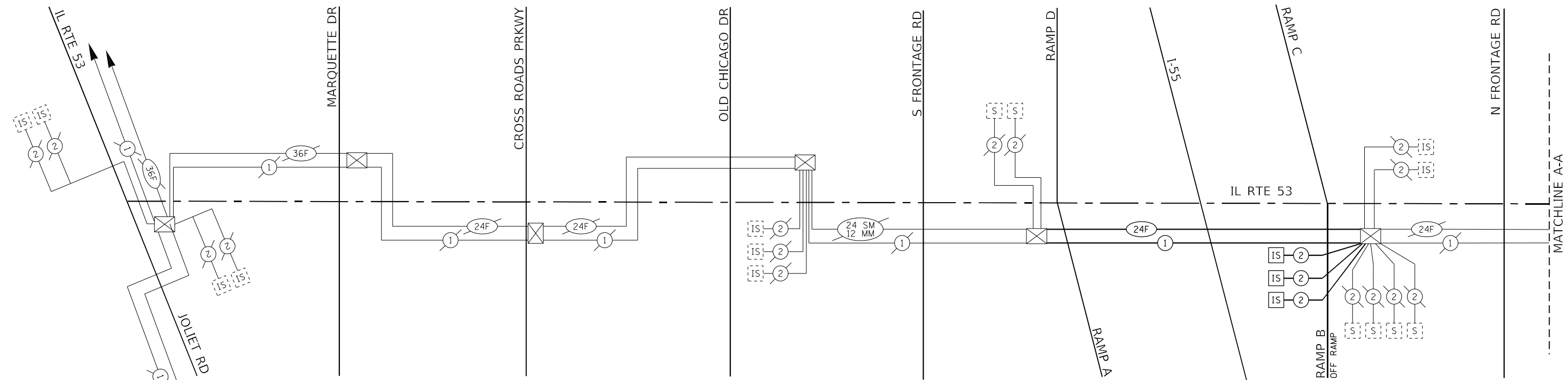
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
INTERCONNECT PLAN
OLD CHICAGO DR TO REMINGTON BLVD

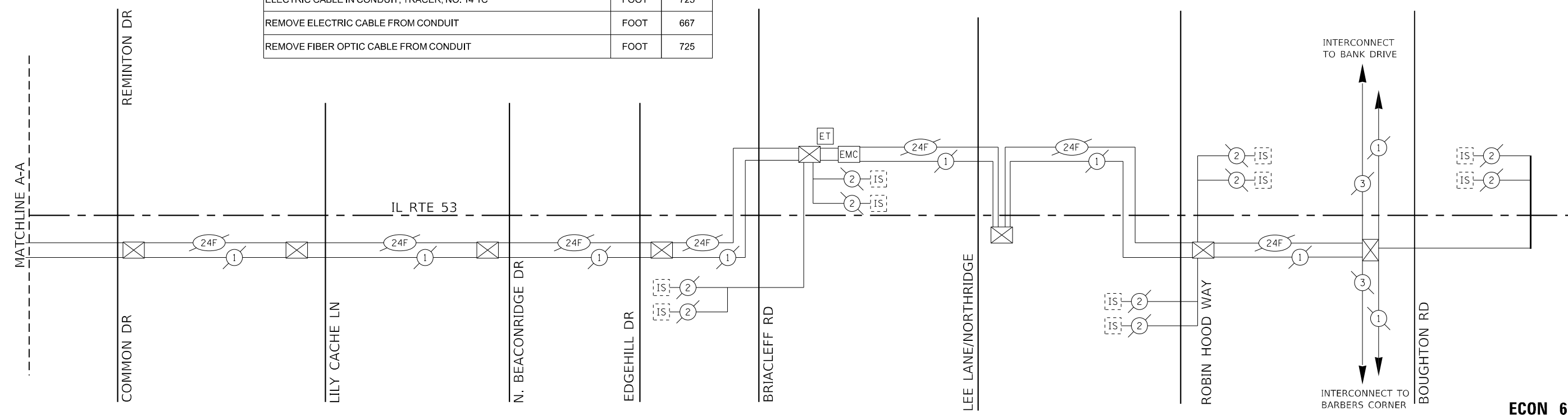
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	135
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

ECON 68



SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNITS	TOTAL QTY
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	725
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	725
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	667
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	725



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
INTERCONNECT SCHEMATIC
JOLIET ROAD TO BOUGHTON ROAD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 136
CONTRACT NO. 62H03				ILLINOIS FED. AID PROJECT

ECON 68

ROADWAY LIGHTING NOTES

1. THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
2. REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE TEMPORARY OR PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
3. THE ENGINEER SHALL APPROVE THE LOCATION OF ALL PUSH PITS.
4. UNDERGROUND SPLICES ARE NOT ALLOWED.
5. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.
6. IDOT MAINTAINED EQUIPMENT IS NOT PART OF J.U.L.I.E. THE CONTRACTOR SHOULD CALL IDOT ELECTRICAL/TRAFFIC MAINTENANCE CONTRACTOR MEADE ELECTRIC AT 773-287-7672 FOR CABLE LOCATION SERVICE FOR IDOT MAINTAINED EQUIPMENT BEFORE START OF ANY WORK. THE FIRST LOCATE IS FREE; HOEVER, REPEAT LOCATES AT THE SAME LOCATION ARE SUBJECT TO CHARGE.
7. PLEASE SEE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC CONTRACT SPECIAL PROVISION FOR REQUIREMENTS ON LANE CLOSURES. AERIAL CABLE INSTALLATIONS OVER THE INTERSTATE WILL REQUIRE FULL STOPS. IDOT EXPRESSWAY SECTION APPROVAL AND COORDINATION IS REQUIRED.

LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN
		REMOVE EXISTING LIGHT POLE AND LUMINAIRE TO BE REINSTALLED ON NEW FOUNDATION; PAID FOR AS 'REMOVE AND RE-ERECT EXISTING LIGHTING UNIT'.
		REINSTALL LIGHT POLE ON LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8', PAID FOR AS 'REMOVE AND RE-ERECT EXISTING LIGHTING UNIT'.
		TEMPORARY WOOD POLE, 60', CLASS 4, WITH 15' MAST ARM AND TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H, MOUNTED 50' ABOVE THE EDGE OF PAVEMENT
		TEMPORARY WOOD POLE, 80', CLASS 4, WITH 15' MAST ARM AND TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H, MOUNTED 60' ABOVE THE EDGE OF PAVEMENT
		TEMPORARY WOOD POLE, 80', CLASS 4, WITH TWO 15' MAST ARMS AND TEMPORARY LUMINAIRES, LED, ROADWAY, OUTPUT DESIGNATION H, MOUNTED 60' ABOVE THE EDGE OF PAVEMENT
		LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D
		LIGHTING CONTROLLER
		JUNCTION BOX, STAINLESS STEEL, SIZE AND TYPE AS NOTED
		TEMPORARY WOOD POLE, HEIGHT AS NOTED, CLASS 4
		AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
		UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE

SCHEDULE OF LIGHTING QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY	CODE NO.	ITEM	UNIT	QUANTITY
81028740	UNDERGROUND CONDUIT, COILABLE NOMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	305	82110026	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	25
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	365	83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	9
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1,277	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,681
81100510	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	18	X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	39
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	282	X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	6
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	65	X0327349	TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	17
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	731	X0327485	MAST ARM, STREET LIGHTING, 15'	EACH	4
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	2,904	X0327752	CONDUIT RISER, GALVANIZED STEEL	EACH	1
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	25	X1400003	TEMPORARY WOOD POLE, 80 FT, CLASS 4, 15 FT. MAST ARM	EACH	26
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	27	X1400342	UNDERPASS LIGHTING REMOVAL	L SUM	1
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	6	X8100863	INTERCEPT EXISTING CONDUIT	EACH	2
81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	4,028	X8211008	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	41
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	6,676	X8360105	LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	156
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	4,734	X8440120	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	25
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	14,202	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	30
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	9,541				

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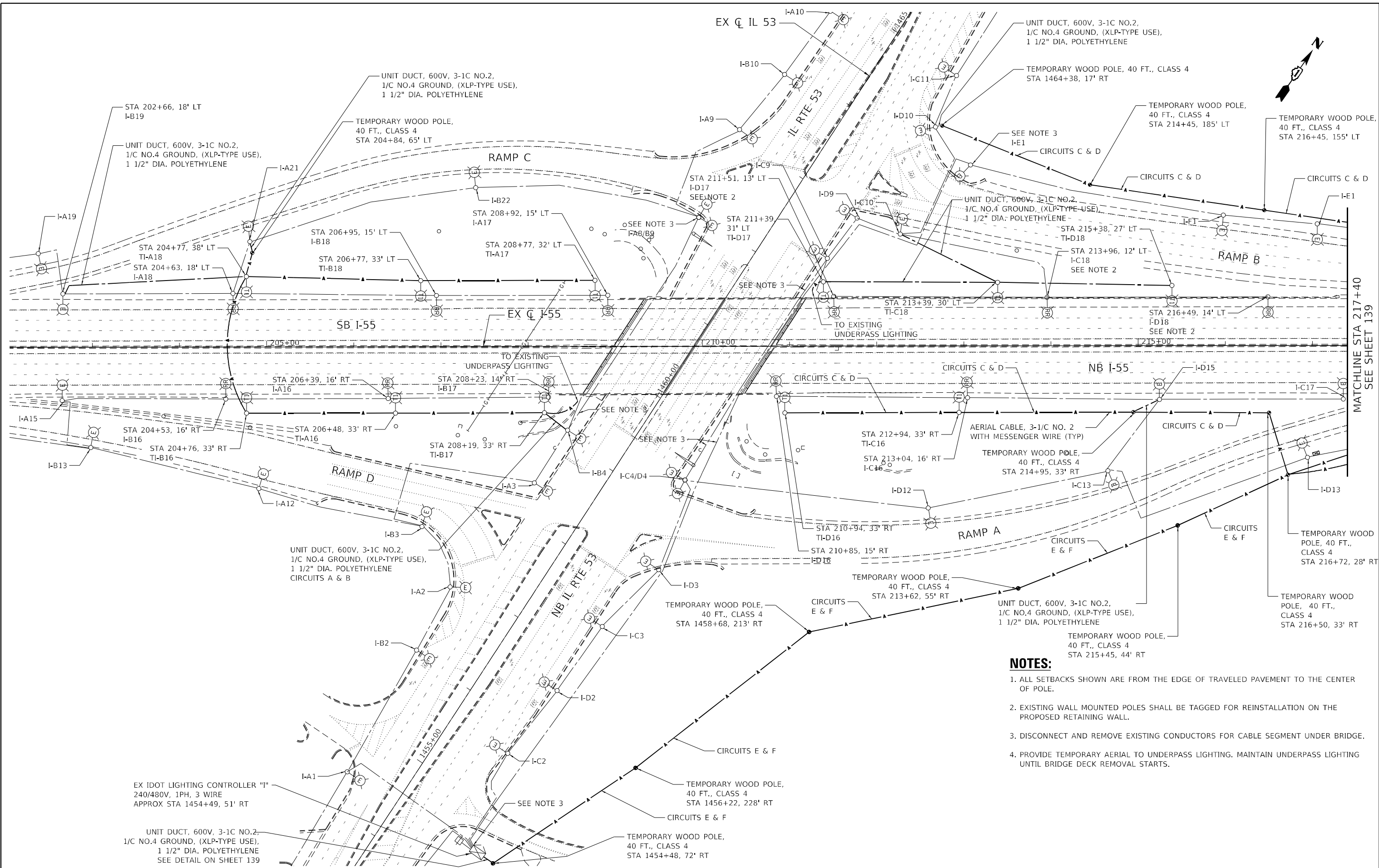


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION LIGHTING GENERAL NOTES AND LEGEND			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 137
CONTRACT NO. 62H03				ILLINOIS FED. AID PROJECT



- NOTES:**
1. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.
 2. EXISTING WALL MOUNTED POLES SHALL BE TAGGED FOR REINSTALLATION ON THE PROPOSED RETAINING WALL.
 3. DISCONNECT AND REMOVE EXISTING CONDUCTORS FOR CABLE SEGMENT UNDER BRIDGE.
 4. PROVIDE TEMPORARY AERIAL TO UNDERPASS LIGHTING. MAINTAIN UNDERPASS LIGHTING UNTIL BRIDGE DECK REMOVAL STARTS.

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EX IDOT LIGHTING CONTROLLER "I"
240/480V, 1PH, 3 WIRE
APPROX STA 1454+49, 51' RT

UNIT DUCT, 600V, 3-1C NO.2,
1/2" NO.4 GROUND, (XLP-TYPE USE),
1 1/2" DIA. POLYETHYLENE
SEE DETAIL ON SHEET 139



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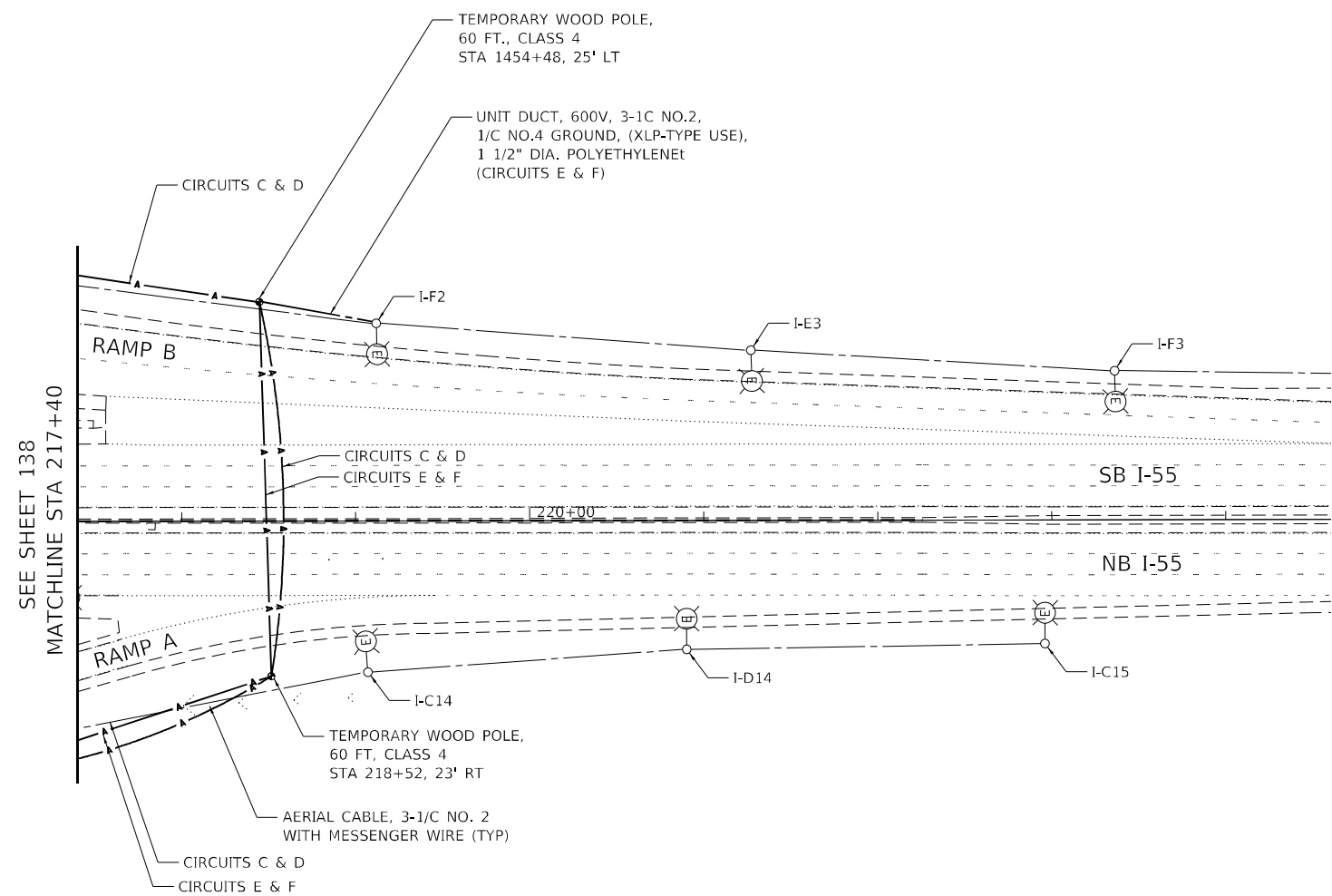
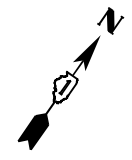
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
REMOVAL AND TEMPORARY LIGHTING PLAN
I-55 OVER IL 53**

SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

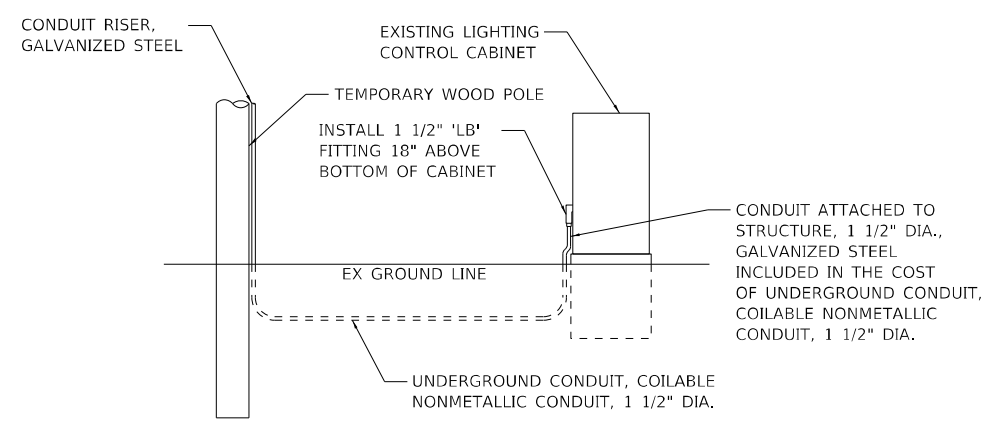
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CONTRACT NO. 62H03				ILLINOIS FED. AID PROJECT

MATCHLINE STA 217+40
SEE SHEET 139



NOTES:

1. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.



**TEMPORARY LIGHTING CONTROL
CABINET CONNECTION DETAIL**
NOT TO SCALE

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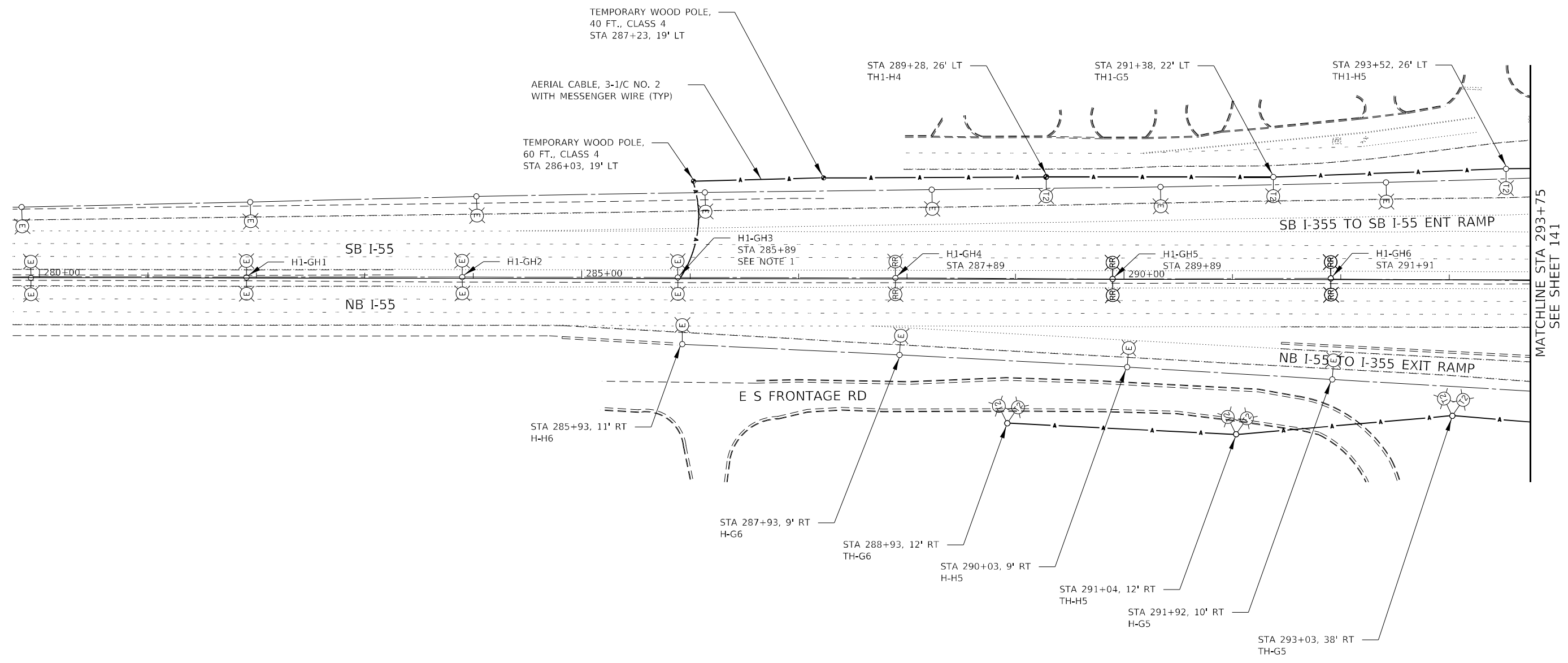
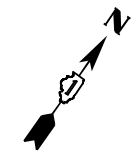
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
REMOVAL AND TEMPORARY LIGHTING PLAN
I-55 OVER IL 53**

SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 139
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



NOTES:

1. DISCONNECT EXISTING CONDUCTORS TO BE REMOVED WITHIN LIGHT POLE BASE.
2. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.
3. EXISTING WALL MOUNTED POLES SHALL BE TAGGED FOR REINSTALLATION ON THE PROPOSED RETAINING WALL.

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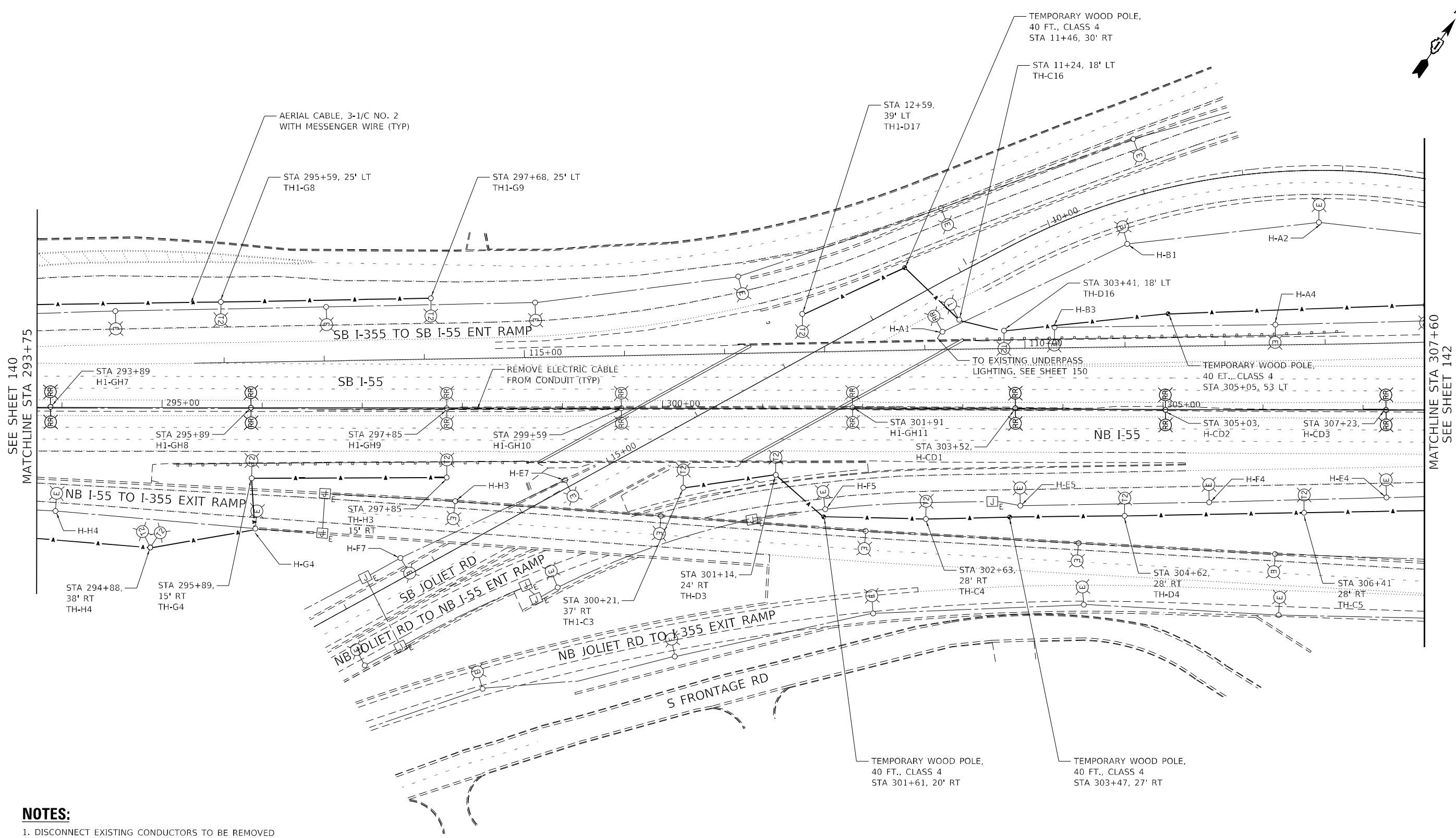
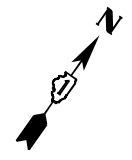


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PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
REMOVAL AND TEMPORARY LIGHTING PLAN
I-55 OVER JOLIET ROAD

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 140
SCALE: 1" = 50'			SHEET NO. 1 OF 3 SHEETS	
STA. TO STA.		CONTRACT NO. 62H03		
ILLINOIS FED. AID PROJECT				



NOTES:

1. DISCONNECT EXISTING CONDUCTORS TO BE REMOVED WITHIN LIGHT POLE BASE.
2. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.
3. EXISTING WALL MOUNTED POLES SHALL BE TAGGED FOR REINSTALLATION ON THE PROPOSED RETAINING WALL.
4. REMOVAL OF JUNCTION BOXES AND CONDUIT ATTACHED TO THE EXISTING BRIDGE SHALL BE INCLUDED IN THE COST OF 'REMOVAL OF EXISTING SUPERSTRUCTURES'.

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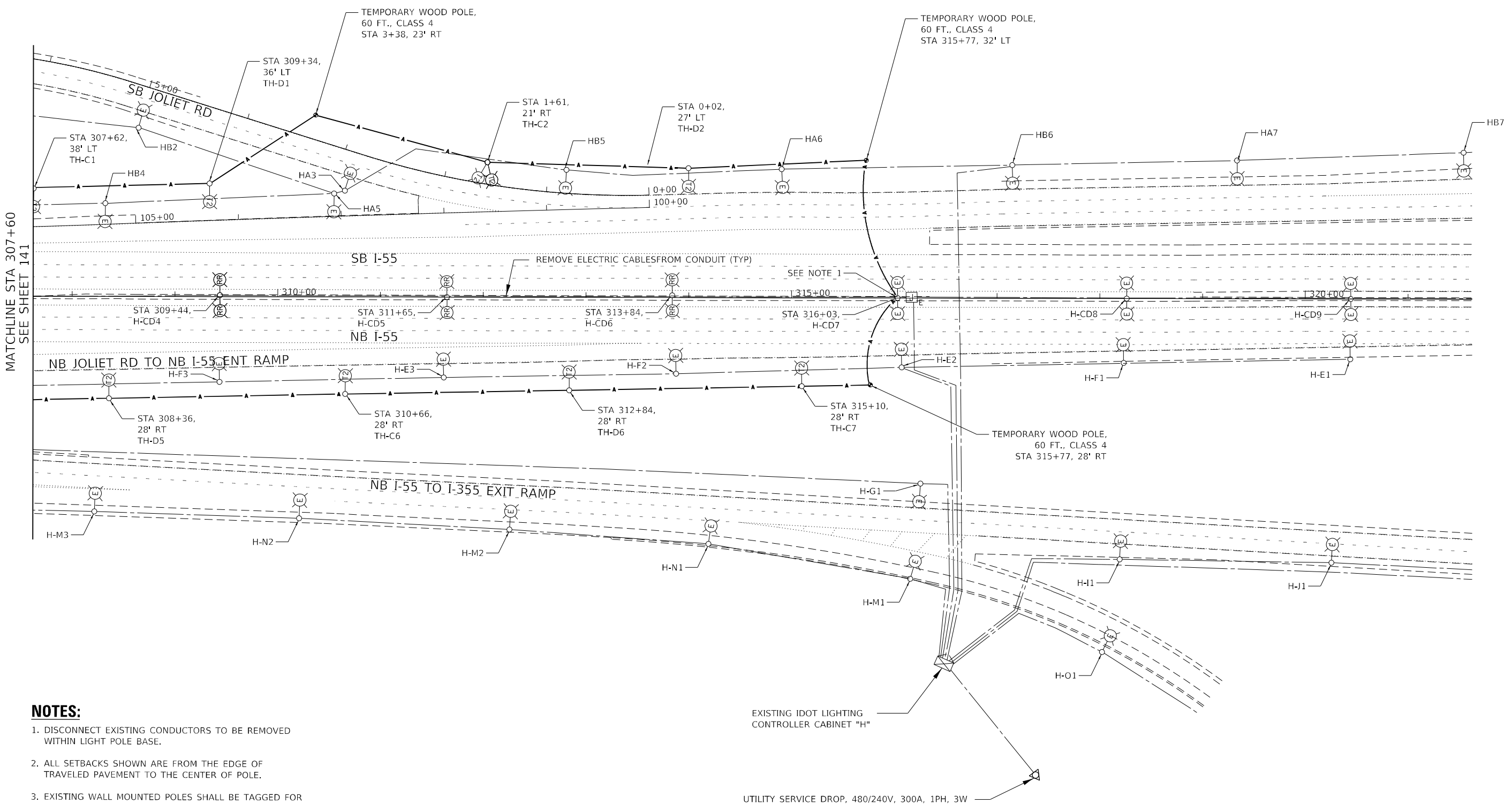
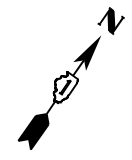
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
REMOVAL AND TEMPORARY LIGHTING PLAN
I-55 OVER JOLIET ROAD**

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 141
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 307+60
SEE SHEET 141

NOTES:

1. DISCONNECT EXISTING CONDUCTORS TO BE REMOVED WITHIN LIGHT POLE BASE.
2. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.
3. EXISTING WALL MOUNTED POLES SHALL BE TAGGED FOR REINSTALLATION ON THE PROPOSED RETAINING WALL.

EXISTING IDOT LIGHTING CONTROLLER CABINET "H"

UTILITY SERVICE DROP, 480/240V, 300A, 1PH, 3W

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

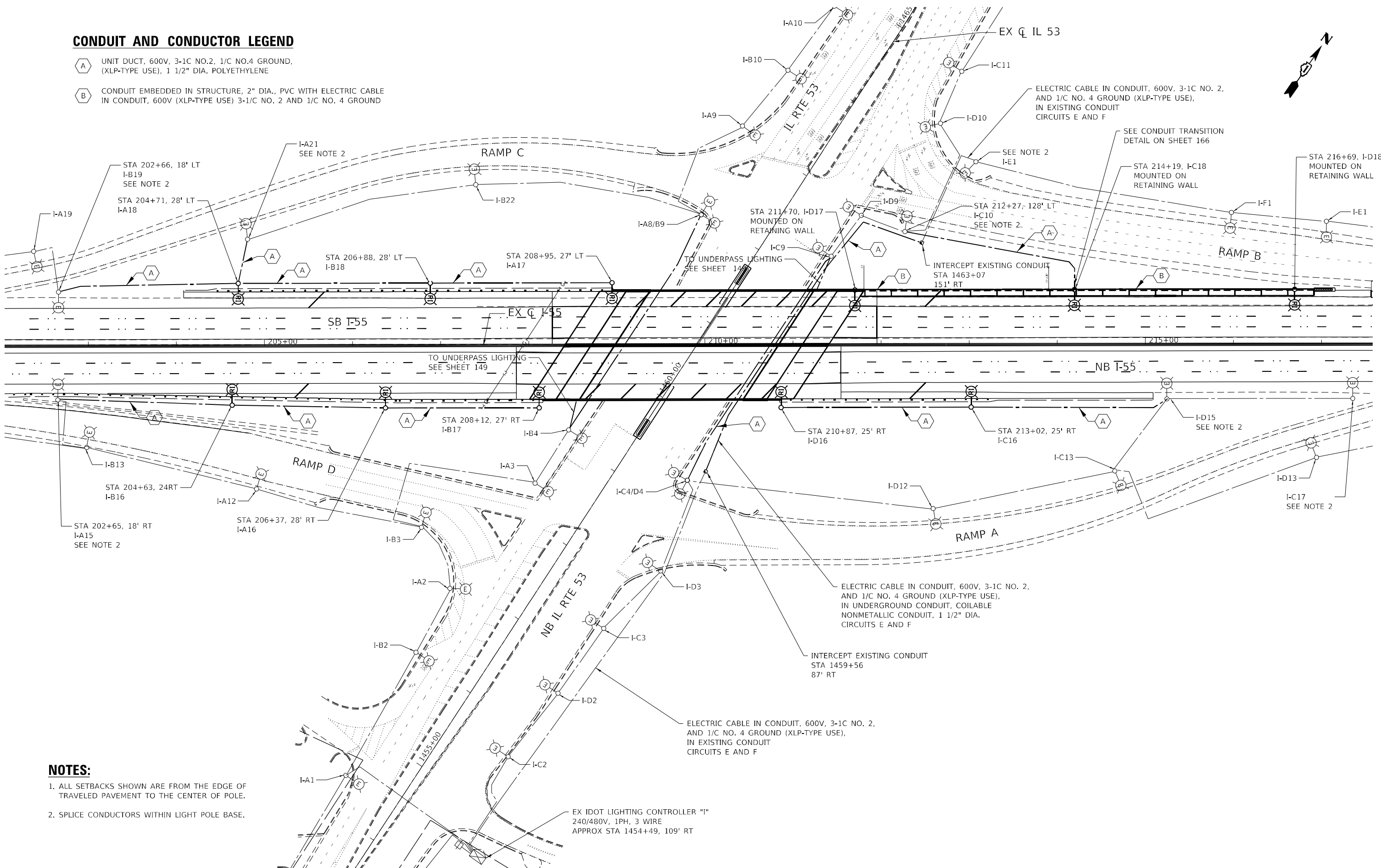
**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
REMOVAL AND TEMPORARY LIGHTING PLAN
I-55 OVER JOLIET ROAD**

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 142
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

CONDUIT AND CONDUCTOR LEGEND

- (A)** UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
- (B)** CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1C NO. 2 AND 1/C NO. 4 GROUND



NOTES:

1. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.
2. SPLICE CONDUCTORS WITHIN LIGHT POLE BASE.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
PROPOSED LIGHTING PLAN
I-55 OVER IL 53**

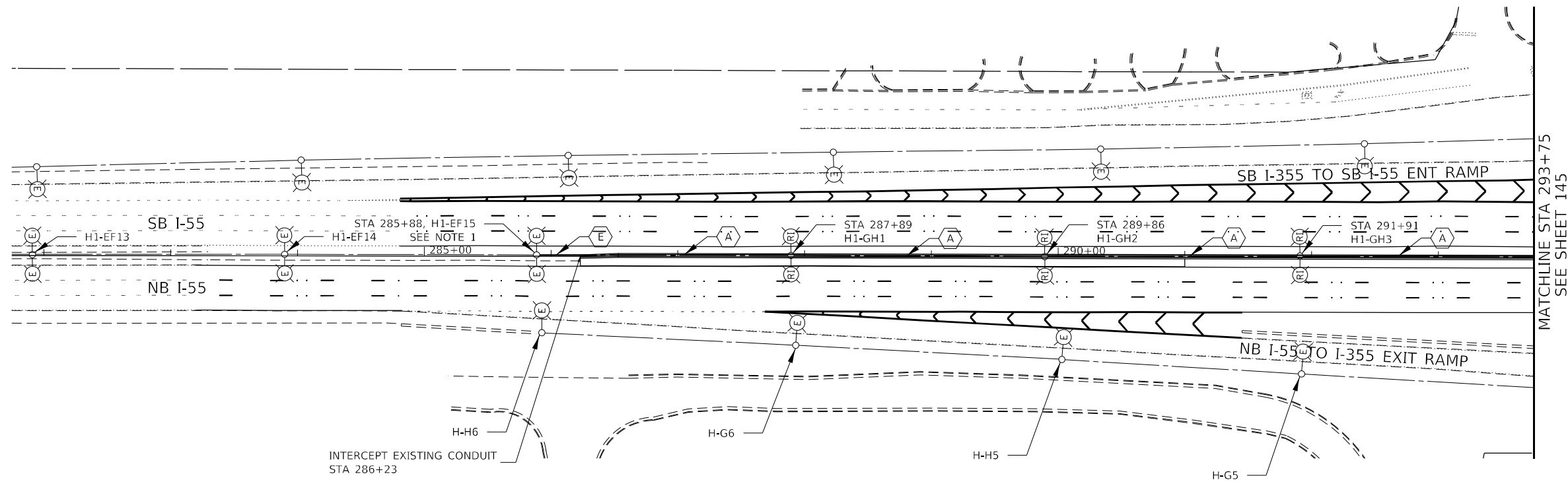
SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	143
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				



CONDUIT AND CONDUCTOR LEGEND

- A** CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND,
- B** CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC
- E** ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND, IN EXISTING CONDUIT



NOTES

1. SPLICE CONDUCTORS WITHIN LIGHT POLE BASE.
2. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

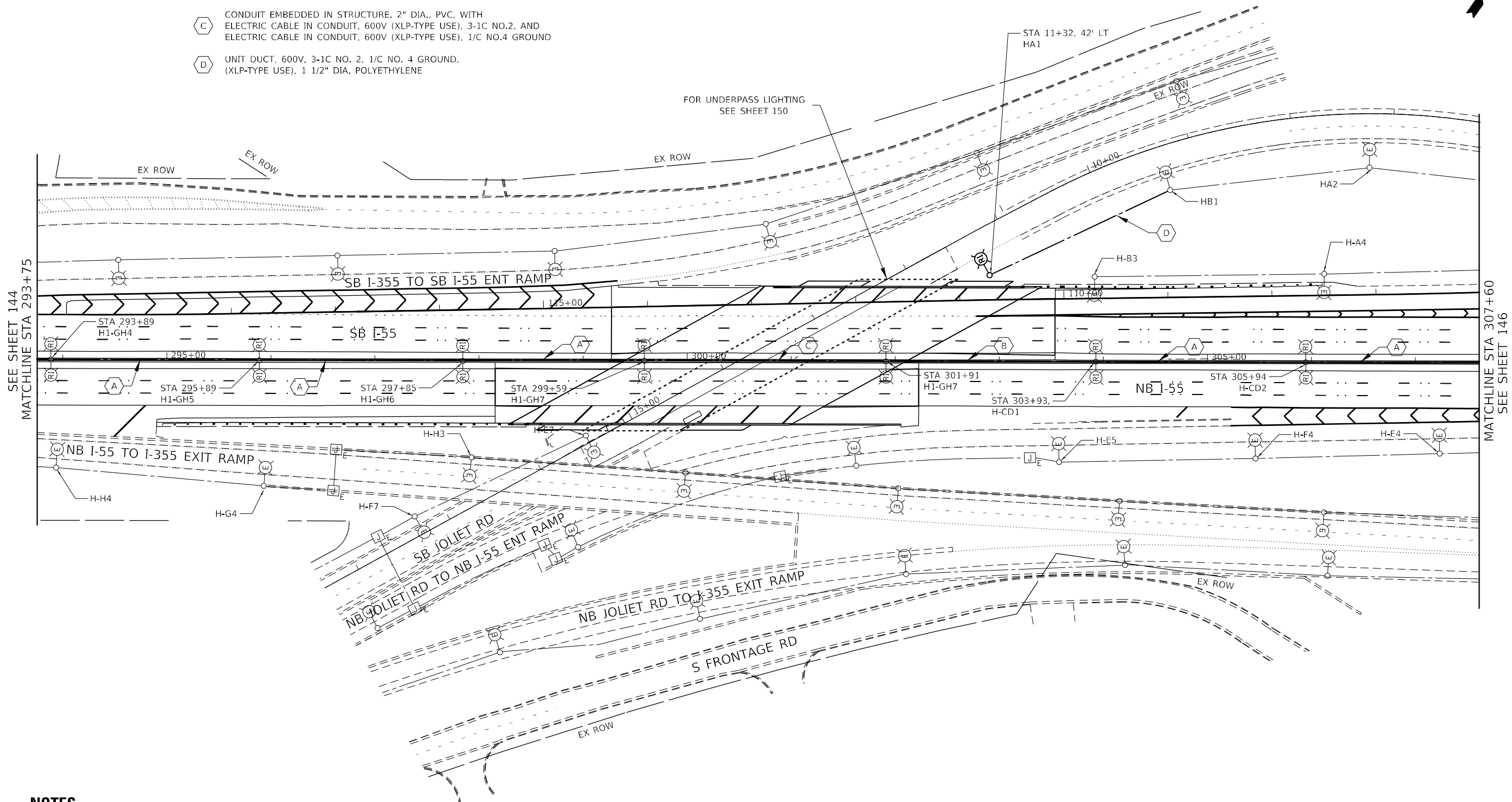
**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED LIGHTING PLAN
I-55 OVER JOLIET ROAD**

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	144
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

CONDUIT AND CONDUCTOR LEGEND

- (A) CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND
- (B) CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC
- (C) CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND
- (D) UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE



NOTES

1. SPLICE CONDUCTORS WITHIN LIGHT POLE BASE.
2. ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.

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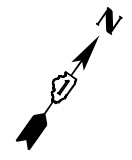
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 AND JOLIET ROAD REHABILITATION
PROPOSED LIGHTING PLAN
I-55 OVER JOLIET ROAD**

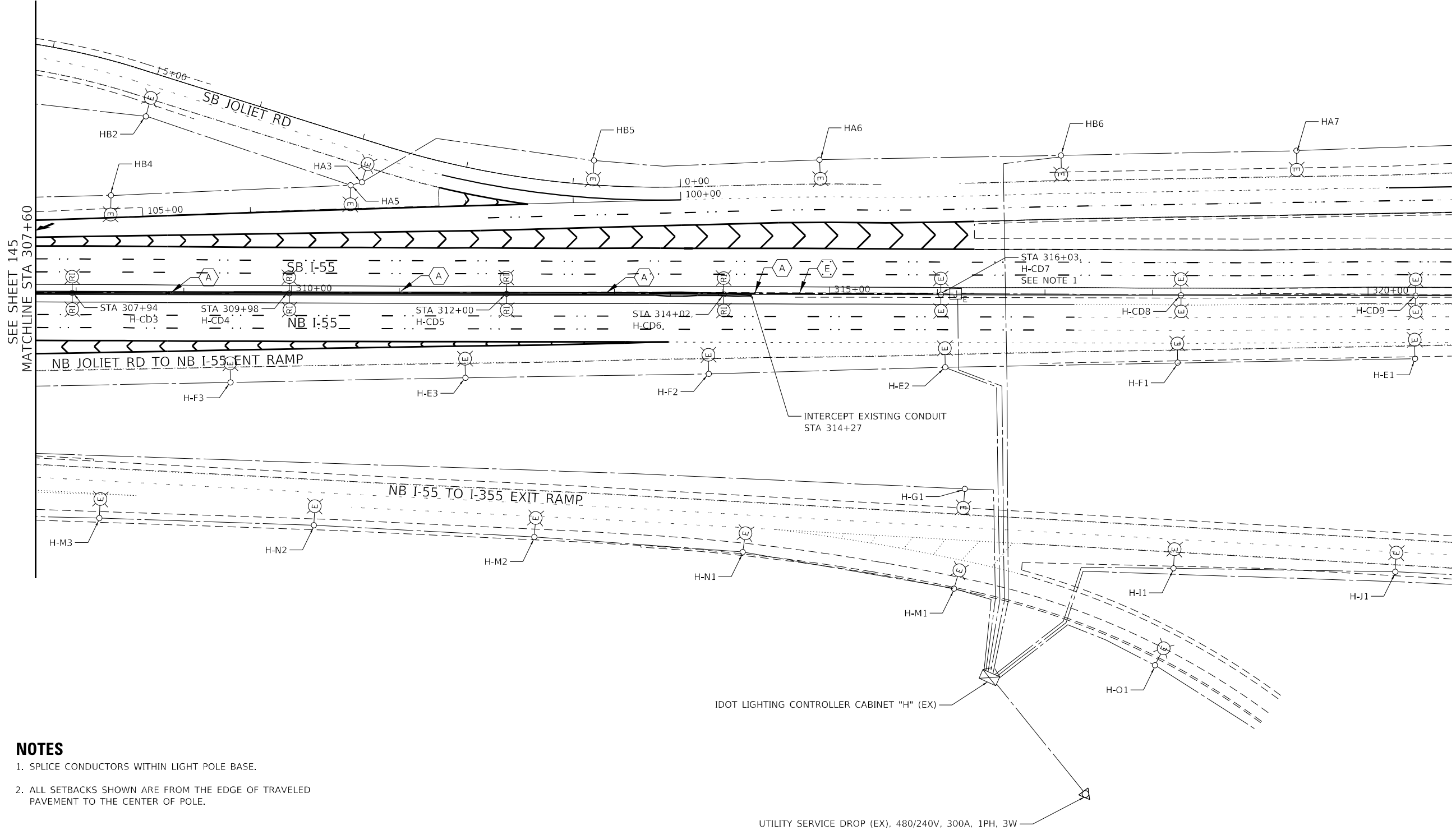
SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	145
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



CONDUIT AND CONDUCTOR LEGEND

- (A) CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND,
- (B) CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC
- (E) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1C NO.2, AND ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO.4 GROUND, IN EXISTING CONDUIT



- NOTES**
- SPLICE CONDUCTORS WITHIN LIGHT POLE BASE.
 - ALL SETBACKS SHOWN ARE FROM THE EDGE OF TRAVELED PAVEMENT TO THE CENTER OF POLE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

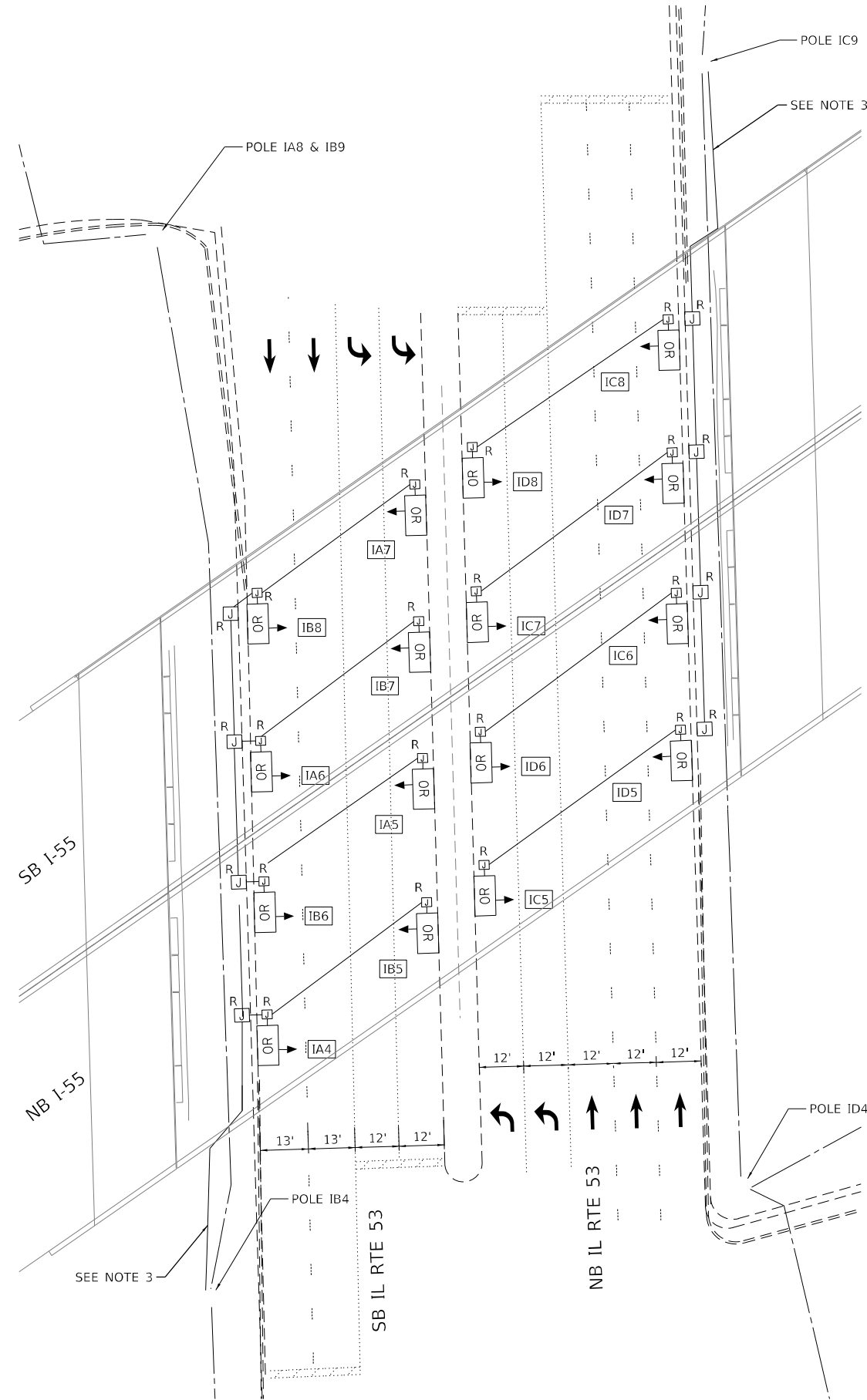
I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED LIGHTING PLAN
I-55 OVER JOLIET ROAD

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	146
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES:

1. THE EXISTING UNDERPASS SHALL REMAIN OPERATIONAL UNTIL BRIDGE DECK REMOVAL STARTS.
2. REMOVAL OF EXISTING UNDERPASS LIGHTING SYSTEM TO BE PAID FOR UNDER PAY ITEM "UNDERPASS LIGHTING REMOVAL."
3. REMOVE ELECTRIC CABLES FROM CONDUIT TO THE FIRST LIGHT POLE, LABELED AS SHOWN. PROVIDE TEMPORARY AERIAL CABLE TO UNDERPASS LIGHTING.
4. REMOVAL OF EXISTING LUMINAIRE NUMBERING DECAL BRACKET IS INCLUDED IN THE COST OF UNDERPASS LIGHTING REMOVAL.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

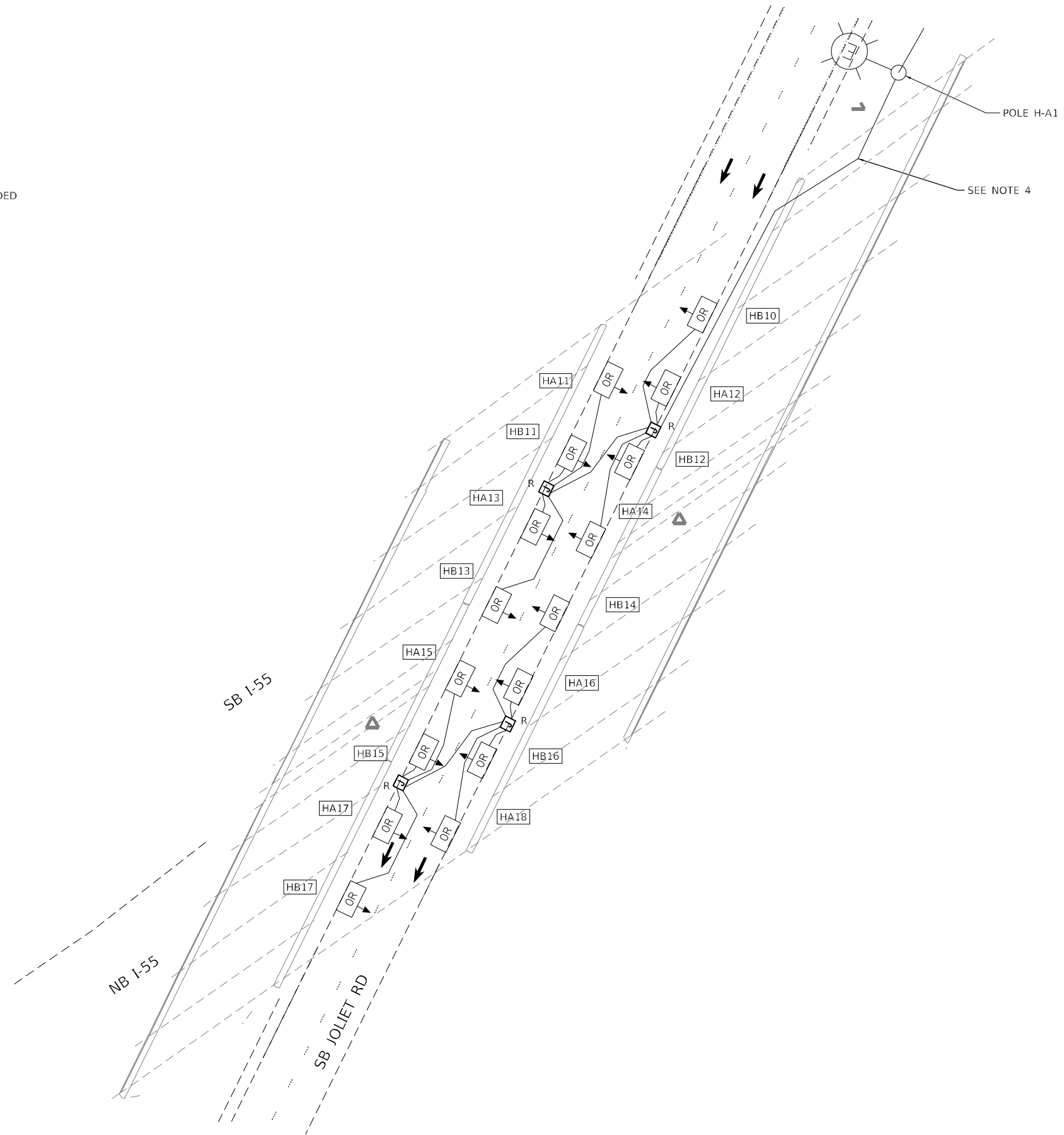
I-55 OVER IL 53 BRIDGE REHABILITATION
UNDERPASS REMOVAL PLAN
IL 53 UNDER I-55

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	147
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES:

- EXISTING LIGHTING CONTROLLER AND ELECTRICAL SERVICE SHALL REMAIN OPERATIONAL AT ALL TIMES.
- REMOVAL OF EXISTING UNDERPASS LIGHTING SYSTEM TO BE PAID FOR UNDER PAY ITEM "UNDERPASS LIGHTING REMOVAL."
- REMOVE ELECTRIC CABLES FROM CONDUIT TO THE FIRST LIGHT POLE, LABELED AS SHOWN.
- REMOVAL OF EXISTING LUMINAIRE NUMBERING DECAL BRACKET IS INCLUDED IN THE COST OF UNDERPASS LIGHTING REMOVAL.



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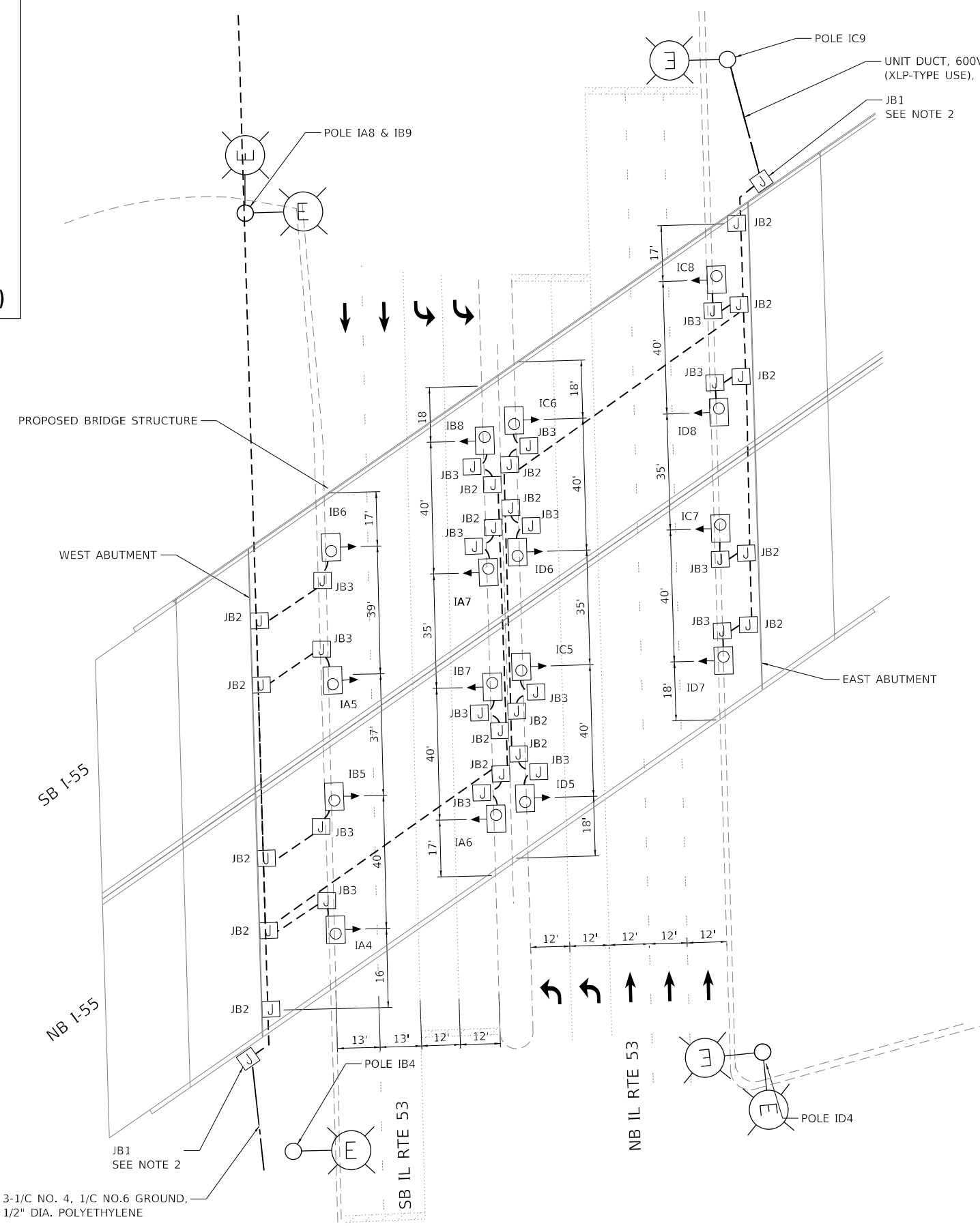
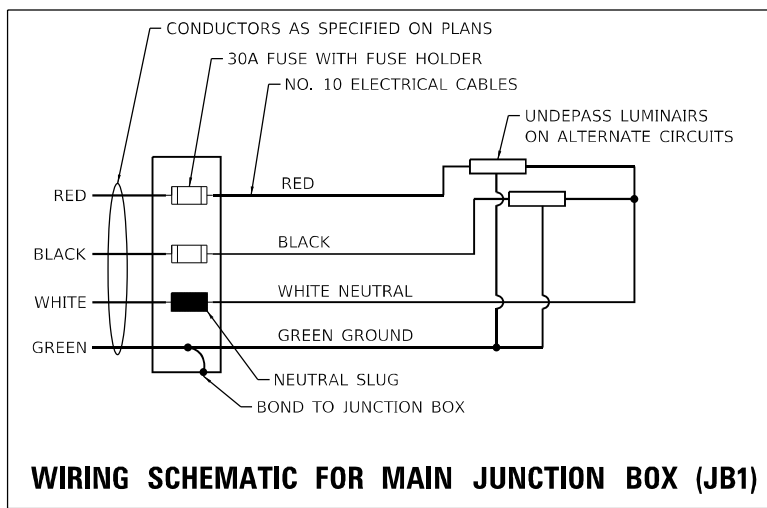
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
UNDERPASS REMOVAL PLAN
JOLIET ROAD UNDER I-55

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	148
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



- NOTES:**
- SEE IDOT DISTRICT ONE STANDARD DRAWINGS BE-901 FOR CONDUIT SIZES AND LOCATIONS.
 - JB1 TO CONTAIN FUSEHOLDERS WITH 30 AMP FUSES AND NEUTRAL SLUG.
 - LUMINAIRES LOCATED ALONG THE CENTER PIER SHALL BE LOCATED OVER THE EDGE OF PAVEMENT. LUMINAIRES LOCATED NEAR THE ABUTMENTS SHALL BE OFFSET 2' BEYOND THE EDGE OF PAVEMENT.

LEGEND

- EXISTING LIGHT POLE TO REMAIN
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZED AS NOTED BELOW:
JB1 18" X 18" X 8"
JB2 12" X 10" X 6"
JB3 6" X 6" X 4"
- CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL, (UNLESS OTHERWISE NOTED), WITH 3-1/4" NO. 10 AND 1/4" NO. 10 GROUND.
- LUMINAIRE ID

UNIT DUCT, 600V, 3-1/4" NO. 4, 1/4" NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE (TO POLE I-B4)

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 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
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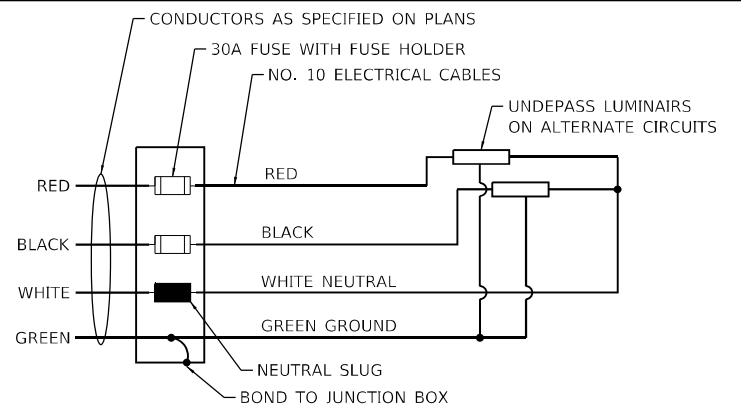
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

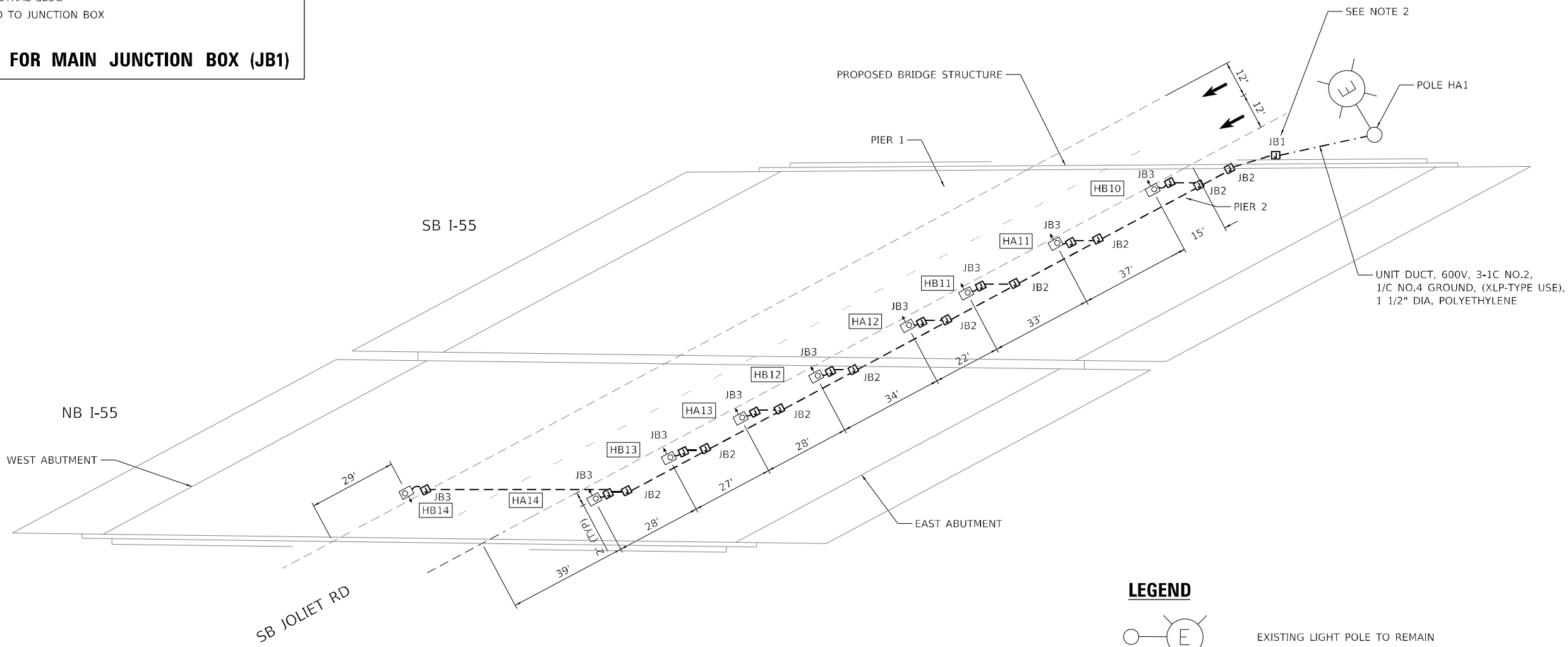
**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED UNDERPASS LIGHTING PLAN
IL 53 UNDER I-55**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	149
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				



WIRING SCHEMATIC FOR MAIN JUNCTION BOX (JB1)



LEGEND

- EXISTING LIGHT POLE TO REMAIN
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZED AS NOTED BELOW:
JB1 18" X 18" X 8"
JB2 12" X 10" X 6"
JB3 6" X 6" X 4"
- LUMINAIRE ID
- CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL, (UNLESS OTHERWISE NOTED), WITH 3-1/8" NO. 10 AND 1/8" NO. 10 GROUND.

NOTES:

1. SEE IDOT DISTRICT ONE STANDARD DRAWINGS BE-901 FOR CONDUIT SIZING AND LOCATIONS.
2. JB1 TO CONTAIN FUSEHOLDERS WITH 30 AMP FUSES AND NEUTRAL SLUG.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION			
PROPOSED UNDERPASS LIGHTING PLAN			
JOLIET ROAD UNDER I-55			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	150
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	66
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT # 62389				

ELECTRICAL SYMBOLS FOR PROPOSED WORK

- LIGHTING UNIT:
47.5 FT. M.H. 15 FT. M.A.,
400W HPS M-C-III LUMINAIRE
BREAKWAY TRANSFORMER BASE
- LIGHTING UNIT:
47.5 FT. M.H. 15 FT. M.A.,
400W HPS M-C-III LUMINAIRE
PARAPET MOUNTED
- COMBINATION LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.
400W HPS M-C-III LUMINAIRE
- RELOCATED LIGHTING UNIT
- UNDERPASS LUMINAIRE:
70 WATT HPS
- JUNCTION BOX, TYPE AND SIZE INDICATED
- UNIT DUCT
3-1/2" #2 WITH 1/2" #4 GND IN
1/4" DIA. POLYETHYLENE
- CONDUIT ATTACHED TO STRUCTURE
1" DIA. GALVANIZED STEEL,
PVC COATED, CONDUCTORS AS INDICATED
- RIGID GALVANIZED STEEL CONDUIT
IN TRENCH OR PUSHED AS INDICATED
- GROUND ROD
- ELECTRICAL CONNECTION TO SIGN STRUCTURE
CANTILEVER SIGN STRUCTURE
- ELECTRIC CONNECTION TO SIGN STRUCTURE
TRUSS TYPE SIGN STRUCTURE
- 600V, 3 POLE, 30 AMPERE FUSED DISCONNECT SWITCH

ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS AND TEMPORARY LIGHTING DETAILS

- GENERAL DESIGNATIONS**
- EXISTING EQUIPMENT TO REMAIN
 - EXISTING EQUIPMENT TO BE REMOVED
 - EXISTING LIGHTING CONTROLLER
 - EXISTING LIGHTING UNIT TO REMAIN
 - EXISTING LIGHTING UNIT TO BE REMOVED
AND RELOCATED
 - TEMPORARY LIGHTING UNIT, 50 FT MH,
15 FT WAST ARM 400 W HPS M-C-III LUMINAIRE
 - AERIAL TYPE CABLE, 3-1/2 NO. 1/0
ALUMINUM WITH MESSENGER WIRE
 - EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED

GENERAL ELECTRICAL PLAN NOTES

1. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK, LIGHTING OR OTHER, BEGINS. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL MAINTENANCE OFFICE AT (630) 860-3670
2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.
3. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.
4. THE QUANTITIES OF RACEWAYS WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
5. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX AND PULL BOX THE CONDUCTORS PASS THROUGH, JUNCTION BOXES SHALL BE EQUIPPED WITH GROUND LUGS FOR GROUND WIRE TERMINATION WITHOUT DEGRADATION OF THE JUNCTION BOX RATING.
6. REFER TO THE TRAFFIC SIGNAL PLANS FOR THE EXACT LOCATIONS OF COMBINATION TRAFFIC SIGNAL/LIGHT POLES AT THE INTERSECTION.
7. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 760mm (30")
8. INDEPENDENT TESTING OF LUMINAIRES IS REQUESTED WHEN THE QUANTITY INDICATED IN THE SUMMARY OF QUANTITIES IS 50 OR MORE FOR A GIVEN PAY ITEM. TESTING SHALL BE IN ACCORDANCE WITH ARTICLE 1067.01(A)(7) OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL REMOVE AND STORE THE POLES TO BE RELOCATED AT NO ADDITIONAL COST. ANY REMOVED WIRING THAT IS NOT REUSABLE SHALL BECOME PROPERTY OF THE CONTRACTOR.

**RECORD DRAWINGS
JOHN BURNS ELECTRIC**

FOR REFERENCE ONLY

DATE: 3/15/07 BY: [Signature]

LTG-01

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		LIGHTING SYMBOLS AND NOTES

SCALE: NONE
DATE: OCTOBER 25, 2004

DRAWN BY: SM
DESIGNED BY: SM
CHECKED BY: SM

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Evanston, Illinois 60203-3969

DATE PLOTTED = 4/14/2021 12:41:25 AM
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	DATE - 3/16/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

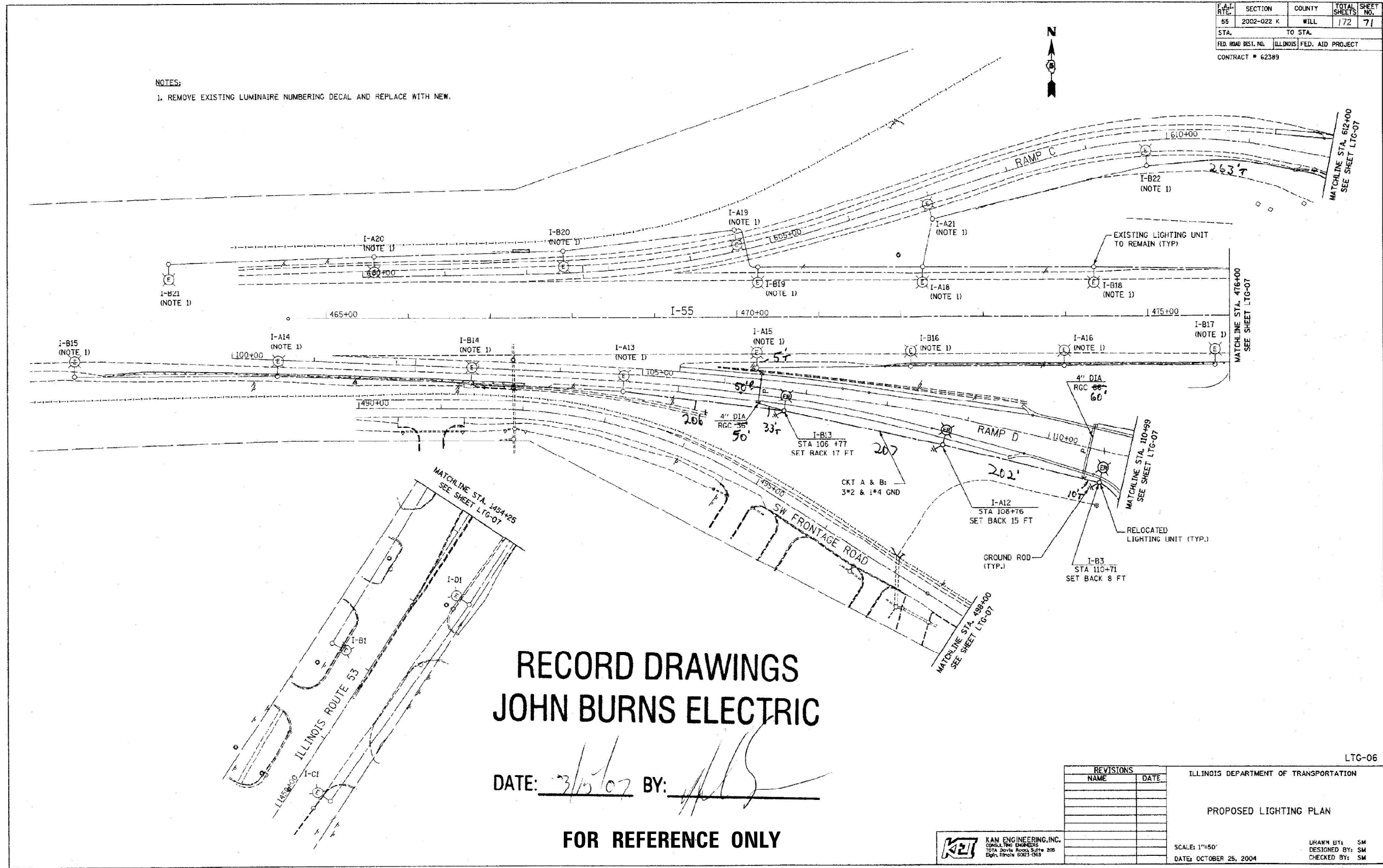
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	151
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
65	2002-022 K	WILL	172	71
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT # 62389		

NOTES:
1. REMOVE EXISTING LUMINAIRE NUMBERING DECAL AND REPLACE WITH NEW.

PLAN	DATE	BY
REVISION	DATE	BY
NO. 1		

PROFILE	DATE	BY
REVISION	DATE	BY
NO. 1		



RECORD DRAWINGS JOHN BURNS ELECTRIC

DATE: 3/15/07 BY: [Signature]

FOR REFERENCE ONLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PROPOSED LIGHTING PLAN
		SCALE: 1"=50' DATE: OCTOBER 25, 2004
		DRAWN BY: SM CHECKED BY: SM

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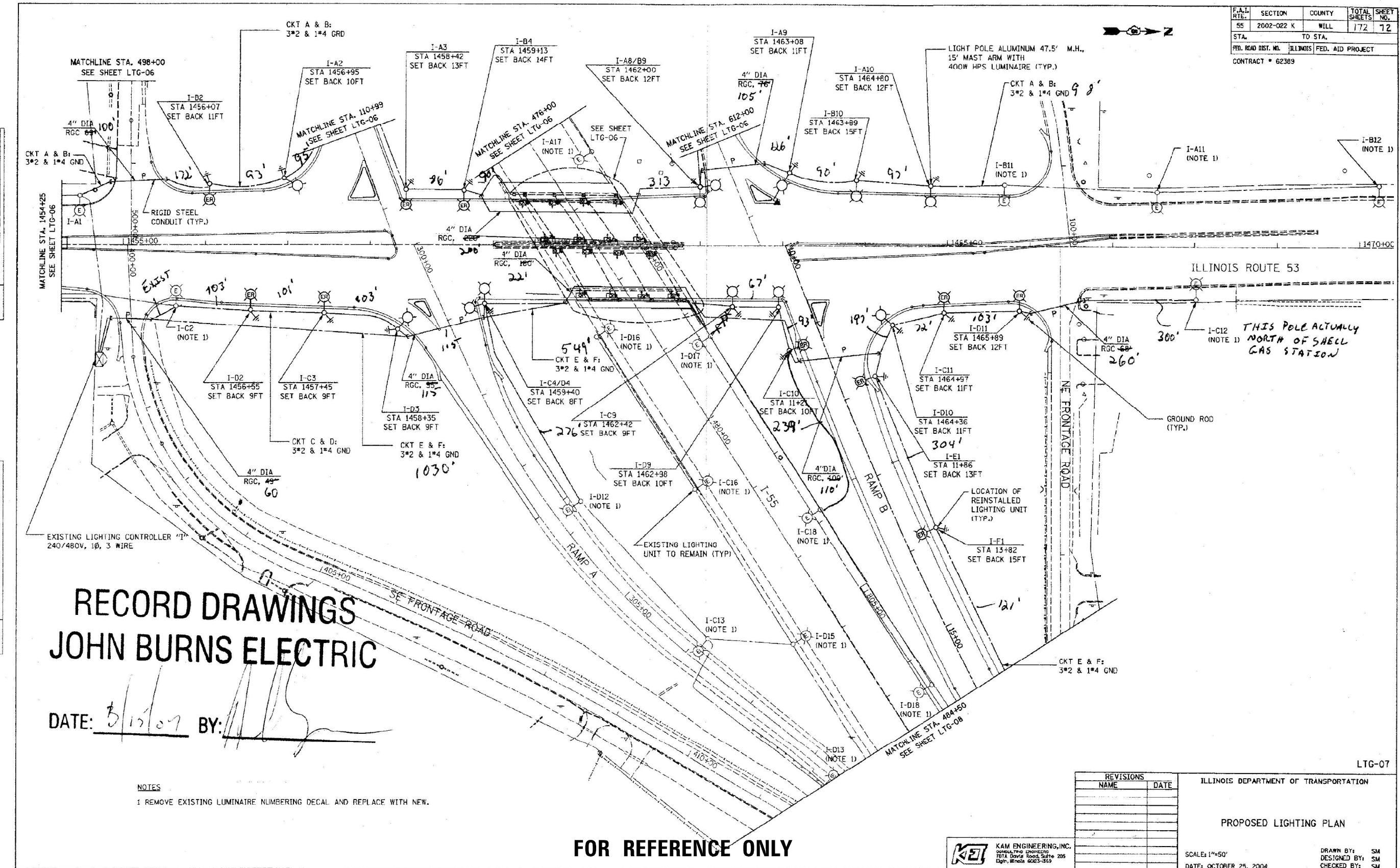
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	152
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H03	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	72
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT # 62369		



**RECORD DRAWINGS
JOHN BURNS ELECTRIC**

DATE: 3/15/07 BY: [Signature]

NOTES
1 REMOVE EXISTING LUMINAIRE NUMBERING DECAL AND REPLACE WITH NEW.

FOR REFERENCE ONLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	PROPOSED LIGHTING PLAN	
		SCALE: 1"=50'	
		DATE: OCTOBER 25, 2004	
		DRAWN BY: SM	
		DESIGNED BY: SM	
		CHECKED BY: SM	

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
7074 Davis Road, Suite 205
Evanston, Illinois 60203-3559

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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

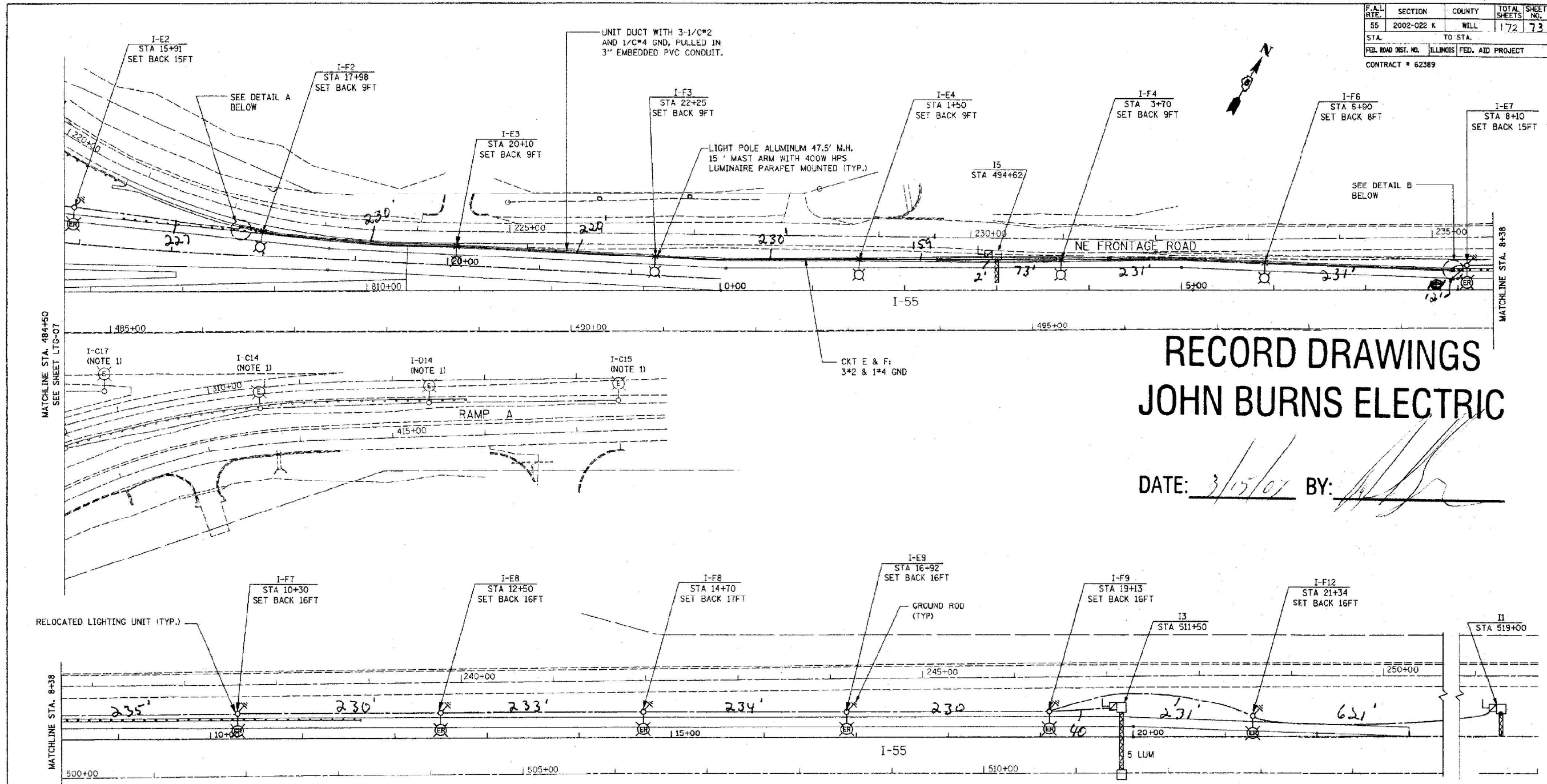
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	DATE - 3/16/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-55 OVER IL 53 BRIDGE REHABILITATION RECORD DRAWINGS				
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	153
CONTRACT NO. 62H03				ILLINOIS FED. AID PROJECT

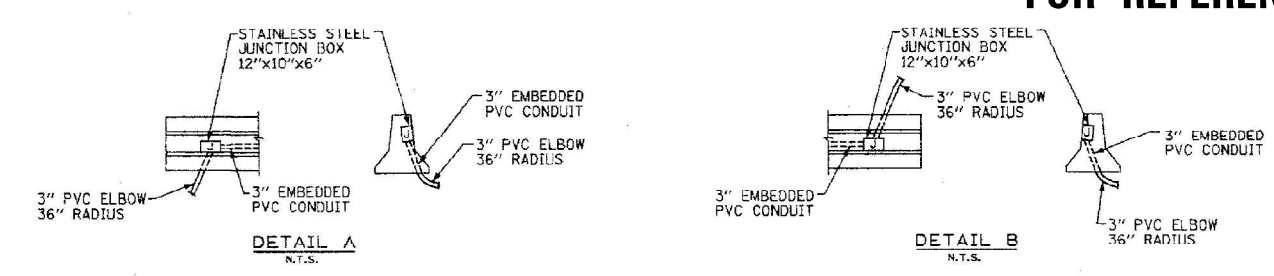
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	73
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT # 62389				



RECORD DRAWINGS JOHN BURNS ELECTRIC

DATE: 3/15/07 BY: [Signature]

FOR REFERENCE ONLY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1" = 50'

DATE: OCTOBER 25, 2004

DRAWN BY: SM
DESIGNED BY: SM
CHECKED BY: SM

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
1014 Saville Road, Suite 205
Eggen, Illinois 62925-1969

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	DATE = 3/16/2021	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	154
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

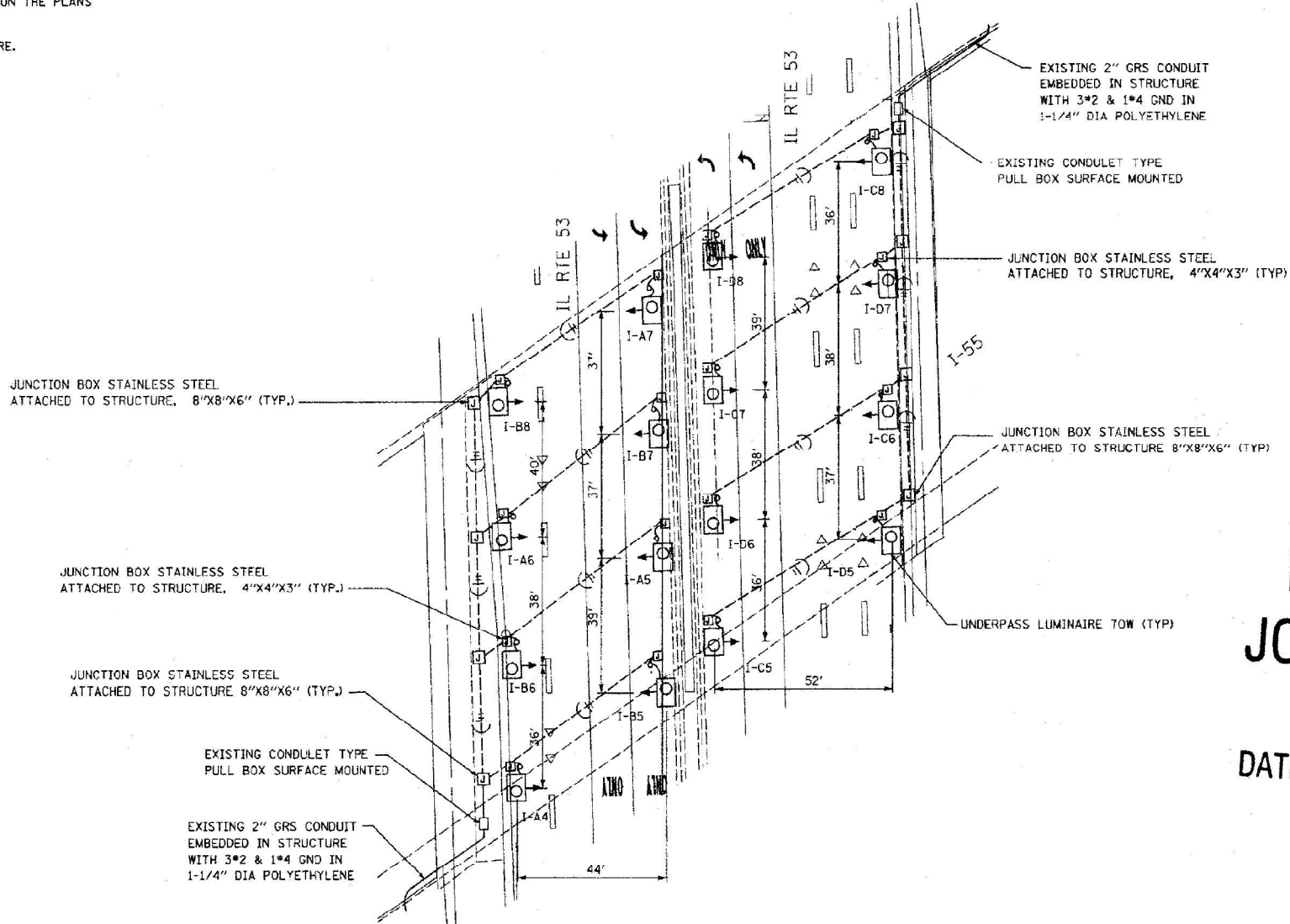
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	177	74
STA.		TO STA.		
ILL. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62389				

LEGEND

- UNDERPASS LUMINAIRE 70W HPS
- JUNCTION BOX STAINLESS STEEL ATTACHED TO STRUCTURE. SIZE INDICATED ON THE PLANS
- CONDUIT ATTACHED TO STRUCTURE. 1" DIA RGS PVC COATED UNLESS NOTED OTHERWISE
- DENOTES PHASE CONDUCTORS (#10 AWC MIN)
- DENOTES NEUTRAL CONDUCTOR
- DENOTES GROUND CONDUCTOR

DATE	BY

DATE	BY



**RECORD DRAWINGS
JOHN BURNS ELECTRIC**

DATE: 3/12/07 BY: [Signature]

FOR REFERENCE ONLY

LTG-09

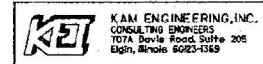
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

UNDERPASS LIGHTING PLAN

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DATE: OCTOBER 25, 2004

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DESIGNED BY: SM
CHECKED BY: SM



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	DATE - 3/16/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

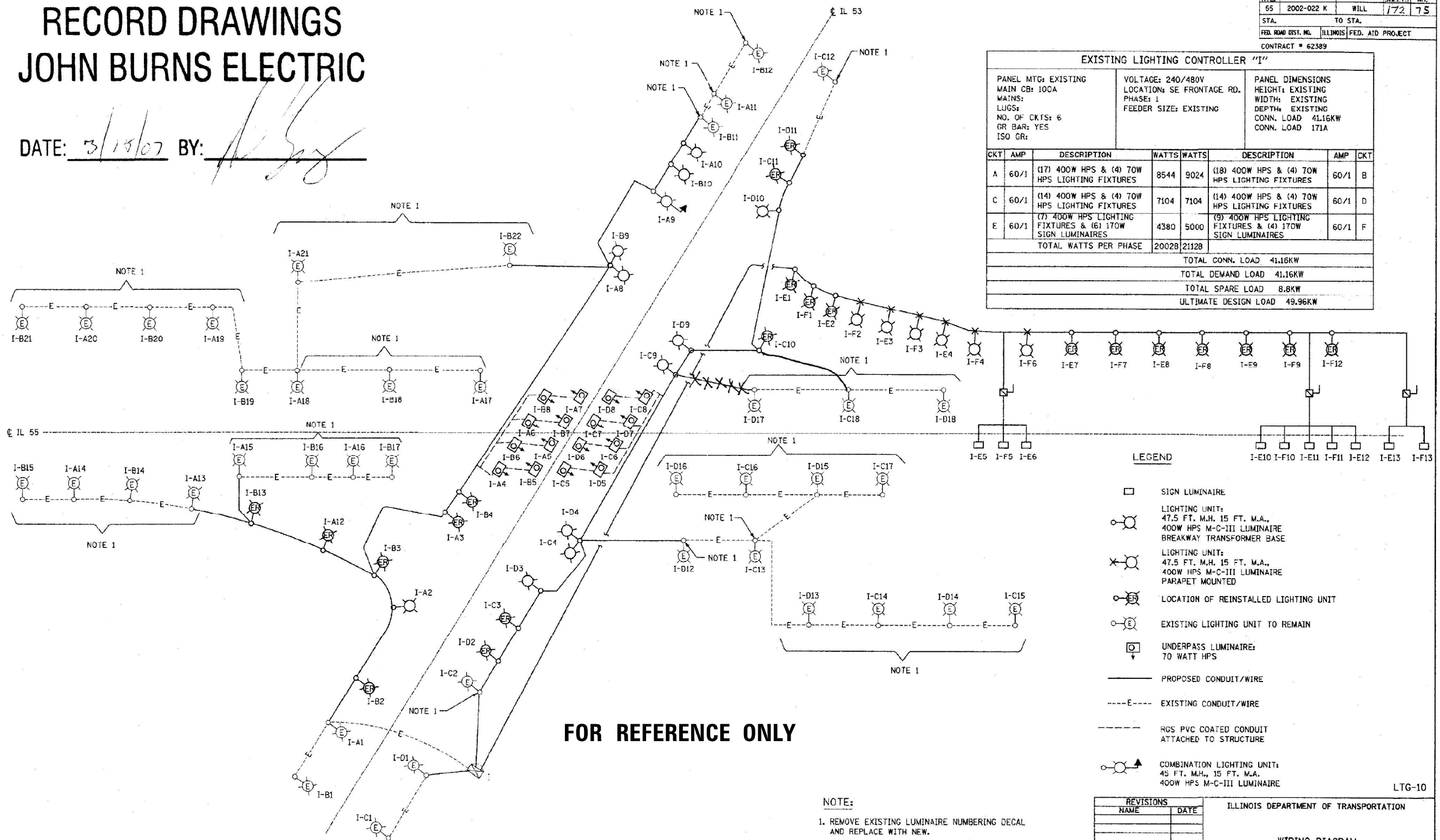
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	155
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

RECORD DRAWINGS JOHN BURNS ELECTRIC

DATE: 3/18/07 BY: [Signature]

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	75
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT # 62389		

EXISTING LIGHTING CONTROLLER "I"							
PANEL MTG: EXISTING		VOLTAGE: 240/480V		PANEL DIMENSIONS			
MAIN CB: 100A		LOCATION: SE FRONTAGE RD.		HEIGHT: EXISTING			
WATNS:		PHASE: 1		WIDTH: EXISTING			
LUGS:		FEEDER SIZE: EXISTING		DEPTH: EXISTING			
NO. OF CKTS: 6				CONN. LOAD 41.16KW			
GR BAR: YES				CONN. LOAD 171A			
ISO GR:							
CKT	AMP	DESCRIPTION	WATTS	WATTS	DESCRIPTION	AMP	CKT
A	60/1	(17) 400W HPS & (4) 70W HPS LIGHTING FIXTURES	8544	9024	(18) 400W HPS & (4) 70W HPS LIGHTING FIXTURES	60/1	B
C	60/1	(14) 400W HPS & (4) 70W HPS LIGHTING FIXTURES	7104	7104	(14) 400W HPS & (4) 70W HPS LIGHTING FIXTURES	60/1	D
E	60/1	(7) 400W HPS LIGHTING FIXTURES & (6) 170W SIGN LUMINAIRES	4380	5000	(9) 400W HPS LIGHTING FIXTURES & (4) 170W SIGN LUMINAIRES	60/1	F
TOTAL WATTS PER PHASE			20028	21128			
TOTAL CONN. LOAD			41.16KW				
TOTAL DEMAND LOAD			41.16KW				
TOTAL SPARE LOAD			8.8KW				
ULTIMATE DESIGN LOAD			49.96KW				



DATE	BY
DATE	BY

DATE	BY
DATE	BY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS

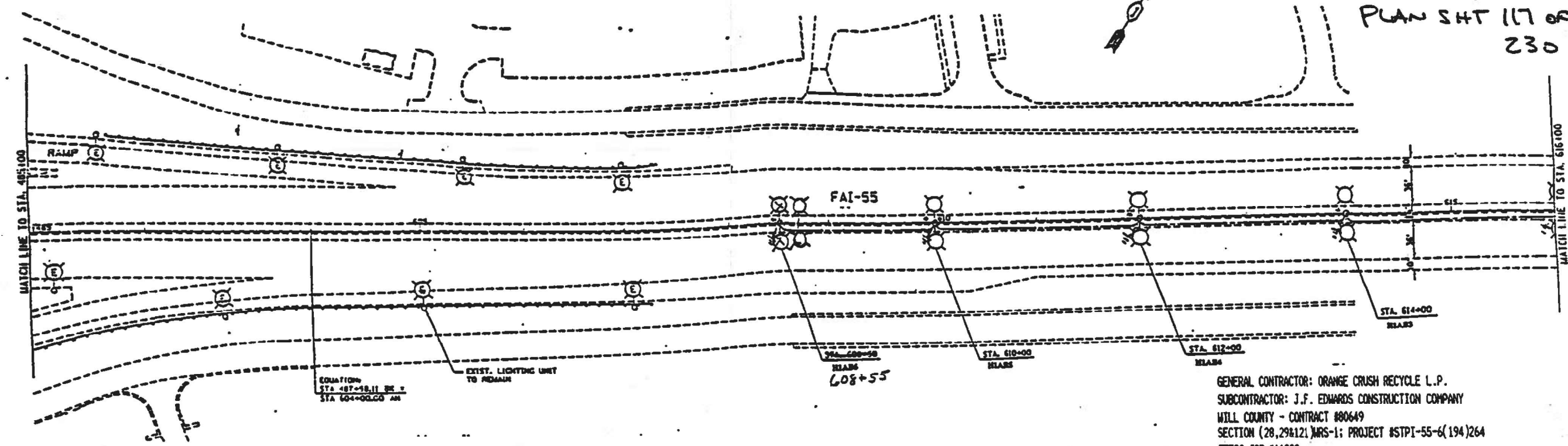
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SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	156
CONTRACT NO. 62H03		ILLINOIS FED. AID PROJECT		

SECTION	COUNTY
55 (28,29&121)MRS-1	WILL
STA.	TO STA.
485+00	631+00

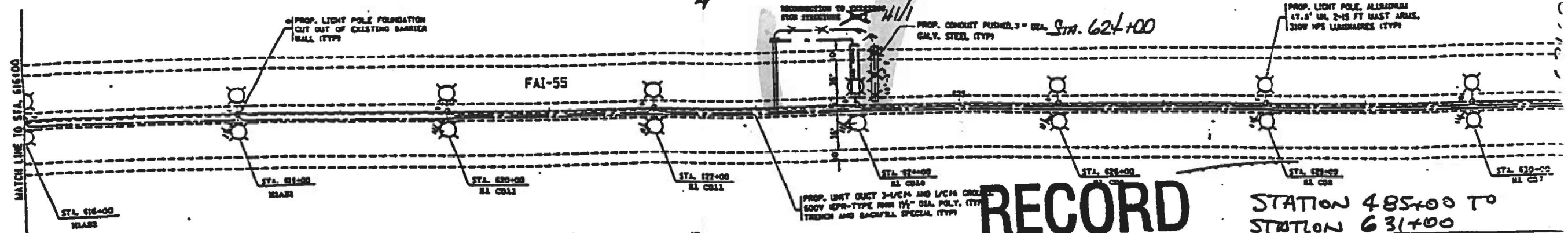
PLAN SHT 117 OF 230



GENERAL CONTRACTOR: ORANGE CRUSH RECYCLE L.P.
 SUBCONTRACTOR: J.F. EDWARDS CONSTRUCTION COMPANY
 WILL COUNTY - CONTRACT #80649
 SECTION (28,29&121)MRS-1; PROJECT #STPI-55-6(194)264
 JFECC JOB #11389

J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE: 05-15-96
 BY: Rick Makoy
 7-05-96

ORANGE CRUSH RECYCLE
 APPROVED
 APPROVED AS NOTED
 DATE: 5-15-96
 BY: DA
 7-05-96



RECORD DRAWING

STATION 485+00 TO STATION 631+00

FOR REFERENCE ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 3

PROPOSED LIGHT: STA. 485+00 TO STA. 631+00 E-3

REVISIONS	
NO.	DATE
1	10/1/96

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CiorbaGroup
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
 P 773.775.4009 | www.ciorba.com

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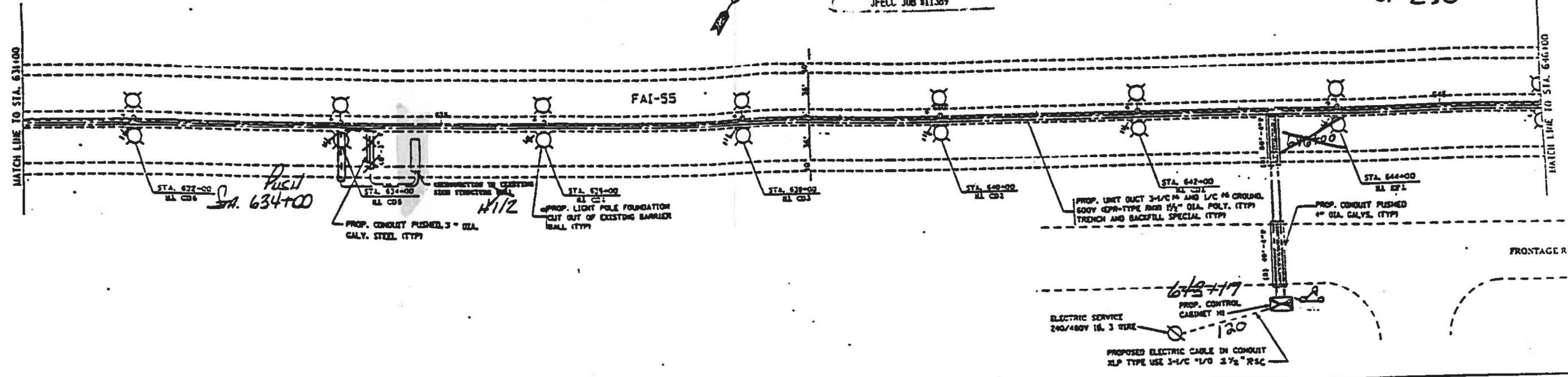
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
 RECORD DRAWINGS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

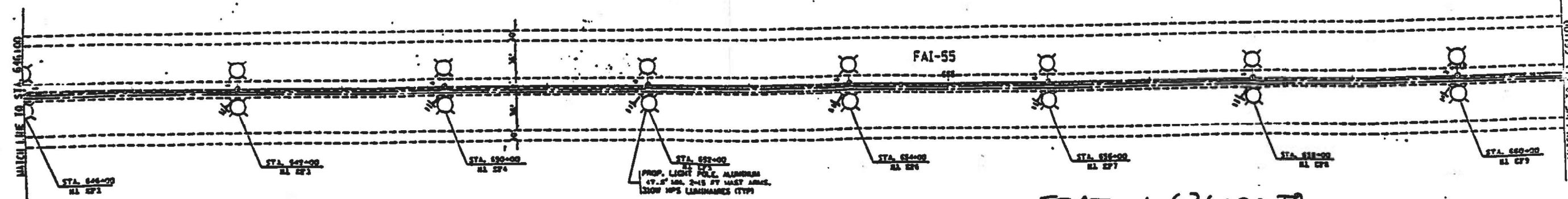
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55	2018-043-BD&BJR	WILL	430	157
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

GENERAL CONTRACTOR: ORANGE CRUSH RECYCLE L.P.
 SUBCONTRACTOR: J.F. EDWARDS CONSTRUCTION COMPANY
 WILL COUNTY - CONTRACT #80649
 SECTION (28,29&121)MRS-1; PROJECT #STPI-55-(194)264
 JFECC JOB #11389



J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE: 05-15-96
 BY: Rick Kloby
 7-05-96

O.C. ORANGE CRUSH RECYCLE
 APPROVED
 APPROVED AS NOTED
 DATE: 5-15-96
 BY: DA
 7-05-96



FOR REFERENCE ONLY

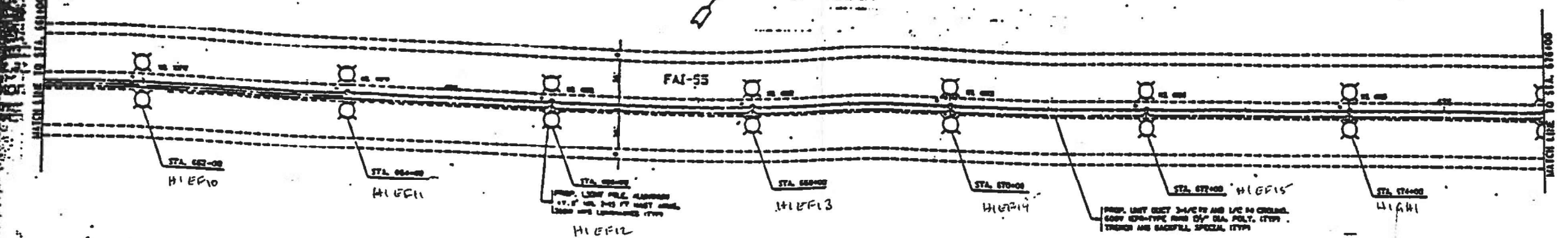
RECORD DRAWING

STATION 631+00 TO
 STATION 661+00

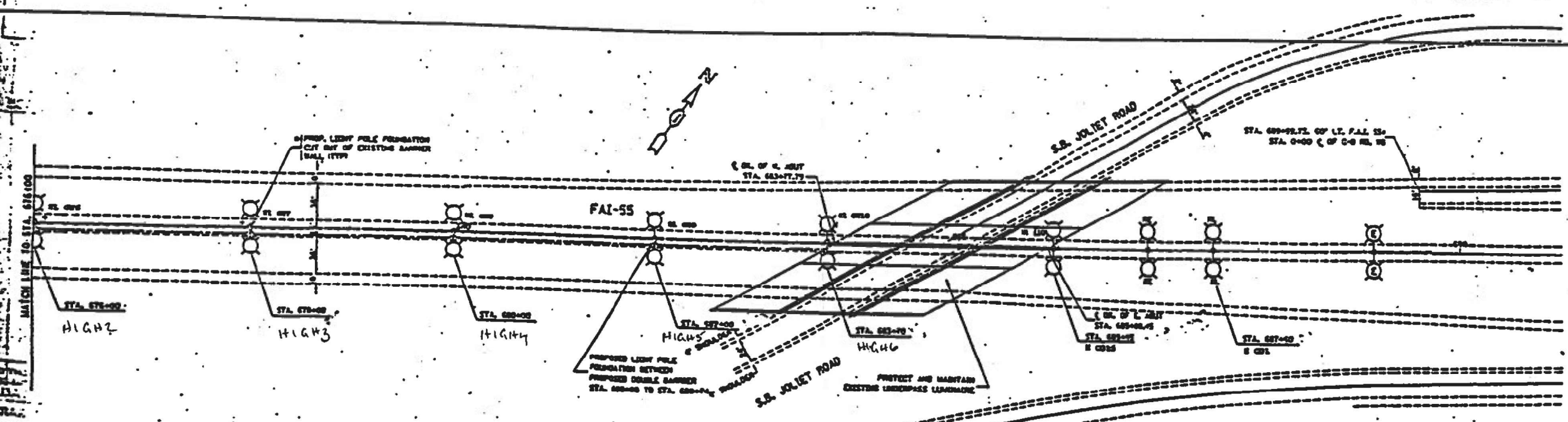
REVISIONS	NAME	DATE
1	A.L.P.	5-20-96

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 55
 PROPOSED LIGHTING
 STA. 631+00 TO STA. 661+00
 E-9
 SCALE: 1"=50'
 DATE: 08/23/94

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GENERAL CONTRACTOR: ORANGE CRUSH RECYCLE L.P.
 SUBCONTRACTOR: J.F. EDWARDS CONSTRUCTION COMPANY
 WILL COUNTY - CONTRACT #90649
 SECTION (28,29&121) MRS-1; PROJECT #STPI-55-6(194)264
 JFECC JOB #11389



J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE: 7-05-96
 BY: *[Signature]*

O.C. ORANGE CRUSH
 APPROVED
 APPROVED AS NOTED
 DATE: 7-05-96
 BY: *[Signature]*

RECORD DRAWING

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.L. ROUTE 55
PROPOSED LIGHTING PLAN
 STA. 661+00 TO STA. 691+00
 E-18
 SCALE: 1"=50'
 DATE: 05/13/94
 DRAWN BY: CAC/VEL
 CHECKED BY: CCB

FOR REFERENCE ONLY

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	DATE - 3/16/2021	REVISED -

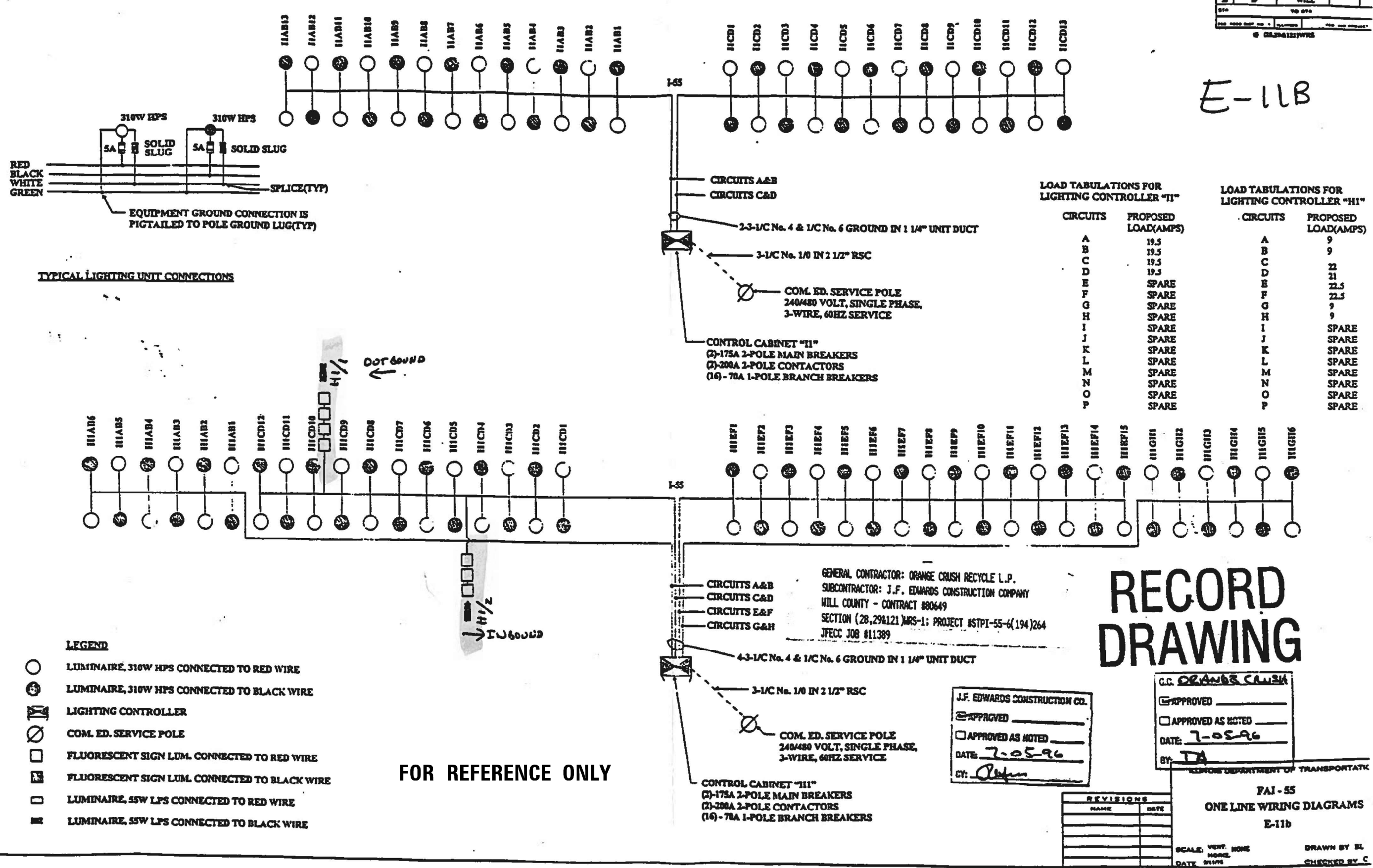
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION			
RECORD DRAWINGS			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	159
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

SECTION	QUANTITY	FORM
55	WILL	
TO STA.		
TO STA.		

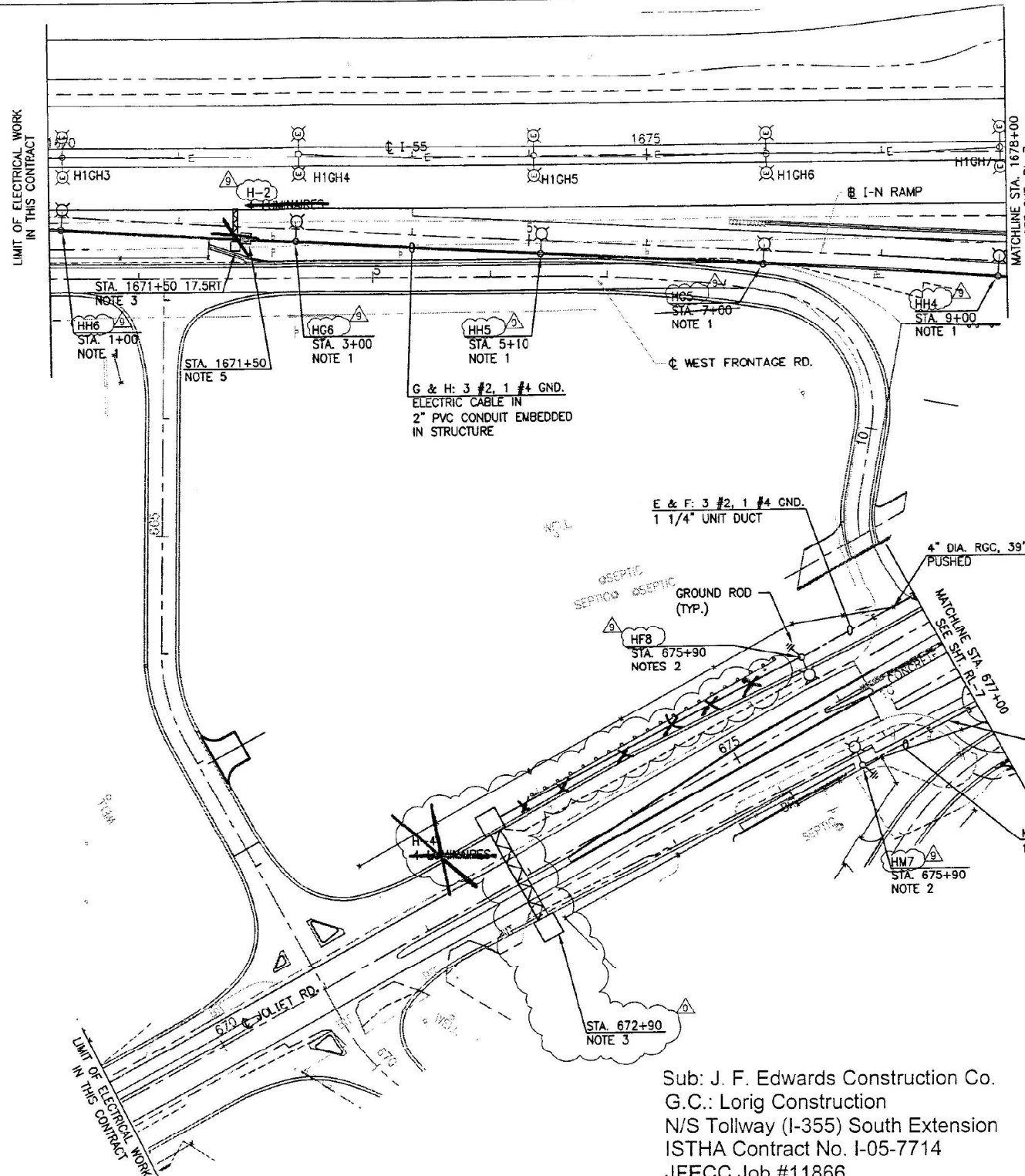
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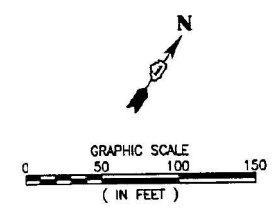
RECORD DRAWING

J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE 12-03-07
 BY WAYNE FOX



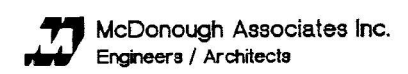
- NOTES:**
1. LIGHT POLE, ALUMINUM, 47.5 FT. M. H., 8 FT. MAST ARM, 310W HPS LUMINAIRE, PARAPET MOUNTED. FOR DETAILS, SEE DRAWINGS (RL-29 THROUGH RL-31, SR-15 AND SR-73).
 2. LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM, 310W HPS LUMINAIRE, GROUND MOUNTED. FOR DETAILS, SEE DRAWINGS RL-27 AND RL-29 THROUGH RL-31.
 3. FOR ELECTRIC CONNECTION TO SIGN STRUCTURE DETAILS, SEE DRAWINGS RL-36 AND RL-37.
 4. CONDUIT AND CABLE CALLOUTS ARE TYPICAL, UNLESS NOTED OTHERWISE.
 5. JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE (RETAINING WALL), 21" X 11" X 8". FOR INSTALLATION DETAILS SEE DRAWING RL-33.

Sub: J. F. Edwards Construction Co.
 G.C.: Lorig Construction
 N/S Tollway (I-355) South Extension
 ISTHA Contract No. I-05-7714
 JFECC Job #11866



DRAWING ID: RL-6
PLOT DATE

DRAWN M. BALOG DATE 3-1-06
 CHECKED K. M. YENICE SCALE 1" = 50'



REVISIONS		
NO.	DATE	DESCRIPTION
1	9/26/06	IDOT ELECTRICAL REVISIONS

CONTRACT I-05-7714
 PROPOSED ROADWAY LIGHTING PLAN

DRAWING NO.
 RL-6
 388 OF 757

FOR REFERENCE ONLY

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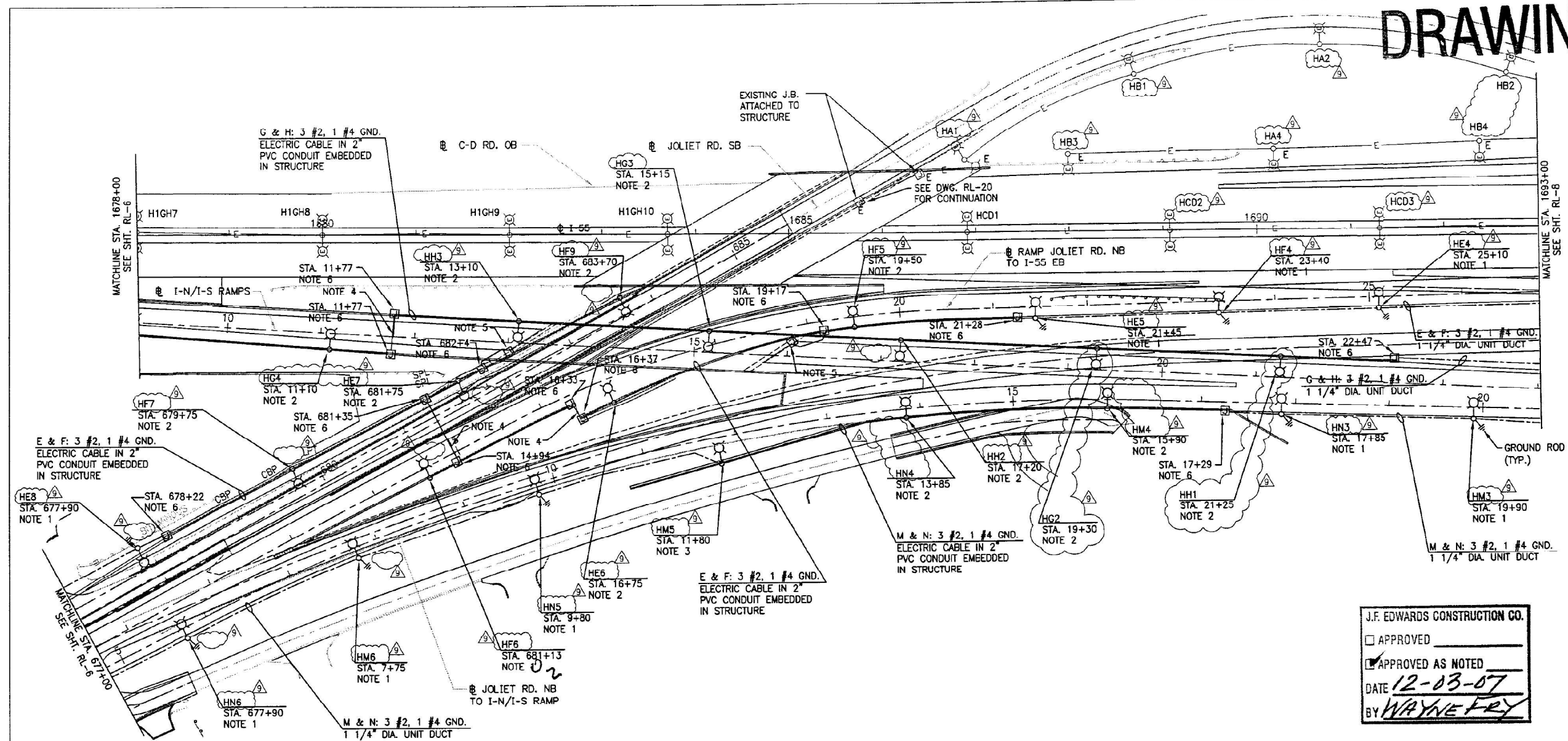
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PLOT DATE = 4/14/2021	CHECKED - JMV	REVISED -
	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION RECORD DRAWINGS			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	161
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

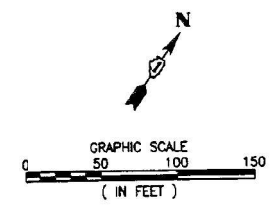
RECORD DRAWING



- NOTES:**
1. LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM, (3)10W LUMINAIRE, GROUND MOUNTED. FOR DETAILS, SEE DRAWINGS RL-27 AND RL-29 THROUGH RL-31.
 2. LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 8 FT. MAST ARM, (3)10W LUMINAIRE, PARAPET MOUNTED. ANCHOR BOLTS FOR THE LIGHT POLE AND RACEWAYS EMBEDDED IN STRUCTURE ARE TO BE PROVIDED UNDER A SEPARATE CONTRACT. FOR DETAILS, SEE DRAWINGS RL-29 THROUGH RL-31.
 3. LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM, (3)10W LUMINAIRE, PARAPET MOUNTED. ANCHOR BOLTS FOR THE LIGHT POLE AND RACEWAYS EMBEDDED IN STRUCTURE ARE TO BE PROVIDED UNDER A SEPARATE CONTRACT. FOR DETAILS, SEE DRAWINGS RL-28 THROUGH RL-31.
 4. 4" DIA. RGS CONDUIT TRENCHED WITH 3 #2, 1 #4 GND. ELECTRIC CABLE.
 5. JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE (ABUTMENT), 16" X 14" X 6" FOR UNDERPASS LIGHTING CONNECTION. RUN 3 #2, 1 #4 GND., 1 1/4" UNIT DUCT IN TRENCH FROM THE JUNCTION BOX EMBEDDED IN STRUCTURE, AS SHOWN ON THE PLAN. FOR INSTALLATION DETAILS, SEE DRAWING RL-33 AND FOR UNDERPASS LIGHTING PLAN, SEE DRAWING RL-19.
 6. JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE (PARAPET WALL), 21" X 11" X 8". FOR INSTALLATION DETAILS, SEE DRAWING RL-33.
 7. CONDUIT AND CABLE CALLOUTS ARE TYPICAL, UNLESS NOTED OTHERWISE.

J.F. EDWARDS CONSTRUCTION CO.
 APPROVED _____
 APPROVED AS NOTED
 DATE 12-03-07
 BY WAYNE FRY

Sub: J. F. Edwards Construction Co.
 G.C.: Lorig Construction
 N/S Tollway (I-355) South Extension
 ISTHA Contract No. I-05-7714
 JFECC Job #11866



FOR REFERENCE ONLY

DRAWING ID: RL-7

DRAWN M. BALOG DATE 3-1-06
 CHECKED K. M. YENICE SCALE 1" = 50'

McDonough Associates Inc.
 Engineers / Architects

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

REVISIONS	
NO.	DATE
1	09.26.06
IDOT ELECTRICAL REVISIONS	

CONTRACT I-05-7714
 PROPOSED ROADWAY LIGHTING PLAN

DRAWING NO.
 RL-7
 389 OF 757

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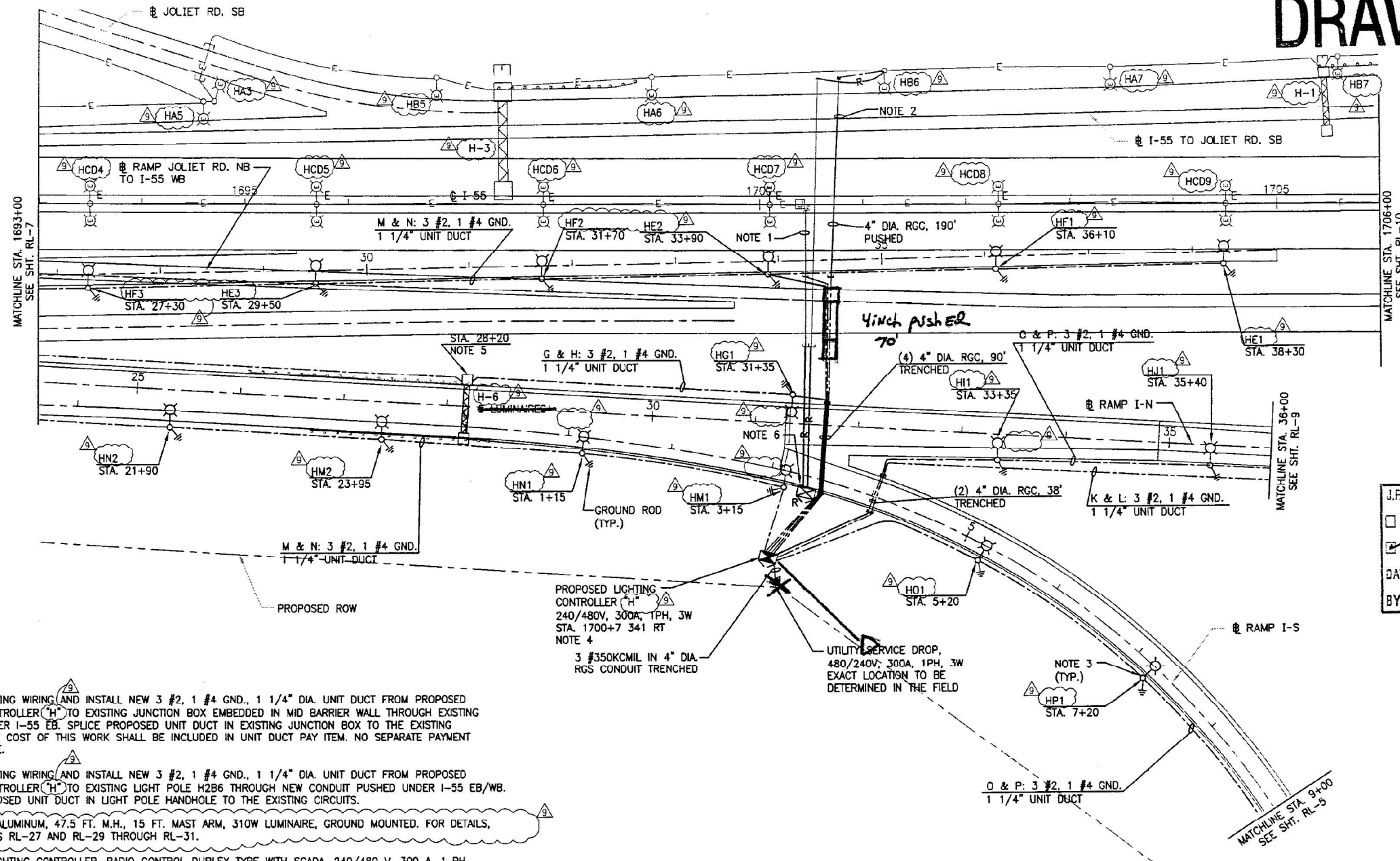
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	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS
 SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	162
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

RECORD DRAWING

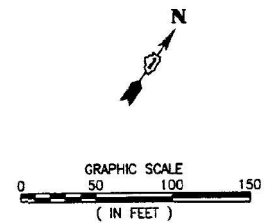


- NOTES:**
- REMOVE EXISTING WIRING AND INSTALL NEW 3 #2, 1 #4 GND., 1 1/4" DIA. UNIT DUCT FROM PROPOSED LIGHTING CONTROLLER ("H") TO EXISTING JUNCTION BOX EMBEDDED IN MID BARRIER WALL THROUGH EXISTING CONDUIT UNDER I-55 EB. SPLICE PROPOSED UNIT DUCT IN EXISTING JUNCTION BOX TO THE EXISTING CIRCUITS. THE COST OF THIS WORK SHALL BE INCLUDED IN UNIT DUCT PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
 - REMOVE EXISTING WIRING AND INSTALL NEW 3 #2, 1 #4 GND., 1 1/4" DIA. UNIT DUCT FROM PROPOSED LIGHTING CONTROLLER ("H") TO EXISTING LIGHT POLE H286 THROUGH NEW CONDUIT PUSHED UNDER I-55 EB/WB. SPLICE PROPOSED UNIT DUCT IN LIGHT POLE HANDHOLE TO THE EXISTING CIRCUITS.
 - LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM, 310W LUMINAIRE, GROUND MOUNTED. FOR DETAILS, SEE DRAWINGS RL-27 AND RL-29 THROUGH RL-31.
 - PROPOSED LIGHTING CONTROLLER, RADIO CONTROL DUPLEX TYPE WITH SCADA, 240/480 V, 300 A, 1 PH, 3 WIRE. FOR DETAILS, SEE DRAWINGS RL-23 THROUGH RL-26.
 - FOR ELECTRIC CONNECTION TO SIGN STRUCTURE DETAILS, SEE DRAWINGS RL-34 AND RL-35.
 - EXISTING LIGHTING CONTROLLER "H" AND CORRESPONDING SERVICE SHALL BE REMOVED ONLY AFTER PROPOSED LIGHTING CONTROLLER ("H") IS INSTALLED, ENERGIZED AND ALL REMAINING CIRCUITS FROM EXISTING LIGHTING CONTROLLER "H" ARE RECONNECTED TO PROPOSED LIGHTING CONTROLLER ("H").
 - CONDUIT AND CABLE CALLOUTS ARE TYPICAL, UNLESS NOTED OTHERWISE.

J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE 12-03-07
 BY WAYNE FRY

FOR REFERENCE ONLY

Sub: J. F. Edwards Construction Co.
 G.C.: Lorig Construction
 N/S Tollway (I-355) South Extension
 ISTHA Contract No. I-05-7714
 JFECC Job #11866



DRAWING ID: RL-8
PLOT DATE:

DRAWN M. BALOG DATE . 3-1-06
 CHECKED K. M. YENICE SCALE 1" = 50'



REVISIONS		
NO.	DATE	DESCRIPTION
1	9/26/05	IDOT ELECTRICAL REVISIONS

CONTRACT I-05-7714
 PROPOSED ROADWAY LIGHTING PLAN

DRAWING NO.
 RL-8
 390 OF 757

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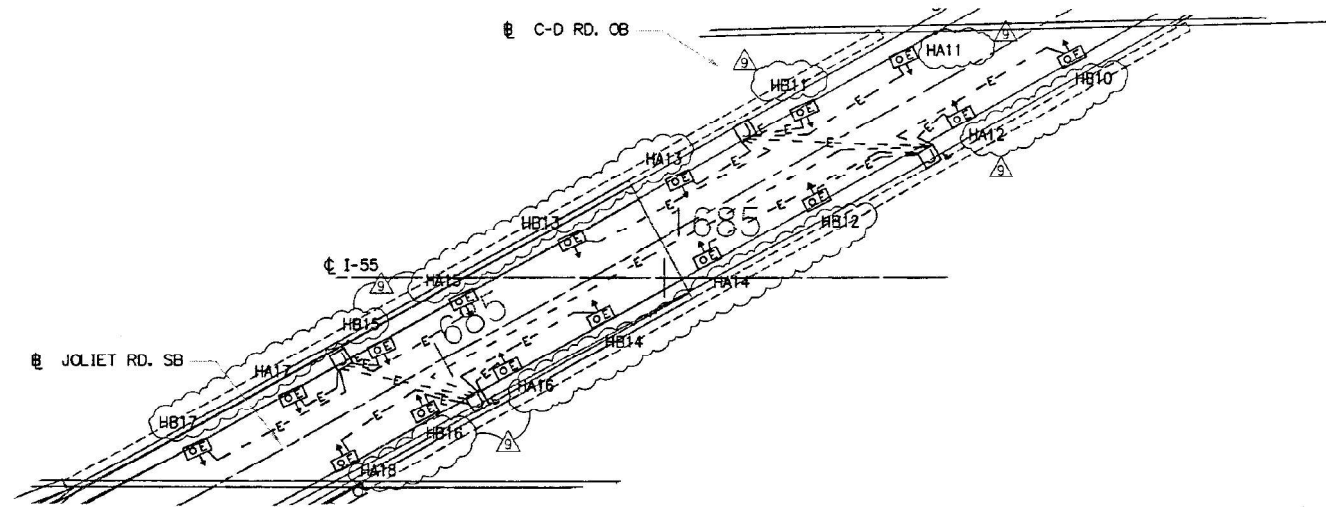
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	DATE - 3/16/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS
 SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	163
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

RECORD DRAWING

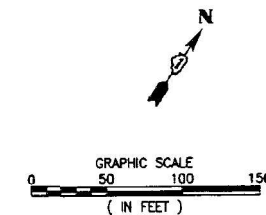


J.F. EDWARDS CONSTRUCTION CO.
 APPROVED _____
 APPROVED AS NOTED _____
 DATE 12-03-07
 BY WAYNE FRY

NOTES:
 1. UNDERPASS LUMINAIRE DECALS SHALL BE MODIFIED ACCORDING TO THE NEW CIRCUITING. THIS WORK SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.

FOR REFERENCE ONLY

Sub: J. F. Edwards Construction Co.
 G.C.: Lorig Construction
 N/S Tollway (I-355) South Extension
 ISTHA Contract No. I-05-7714
 JFECC Job #11866



DRAWING ID: RL-20
 PLOT DATE:

DRAWN M. BALOG DATE . 3-1-06
 CHECKED K. M. YENICE SCALE 1" = 20'

McDonough Associates Inc.
 Engineers / Architects

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	09.26.06	IDOT ELECTRICAL REVISIONS

CONTRACT I-05-7714
 UNDERPASS LIGHTING PLAN
 I-55 OVER JOUJET RD. SB

DRAWING NO.
 RL-20
 402 OF 757

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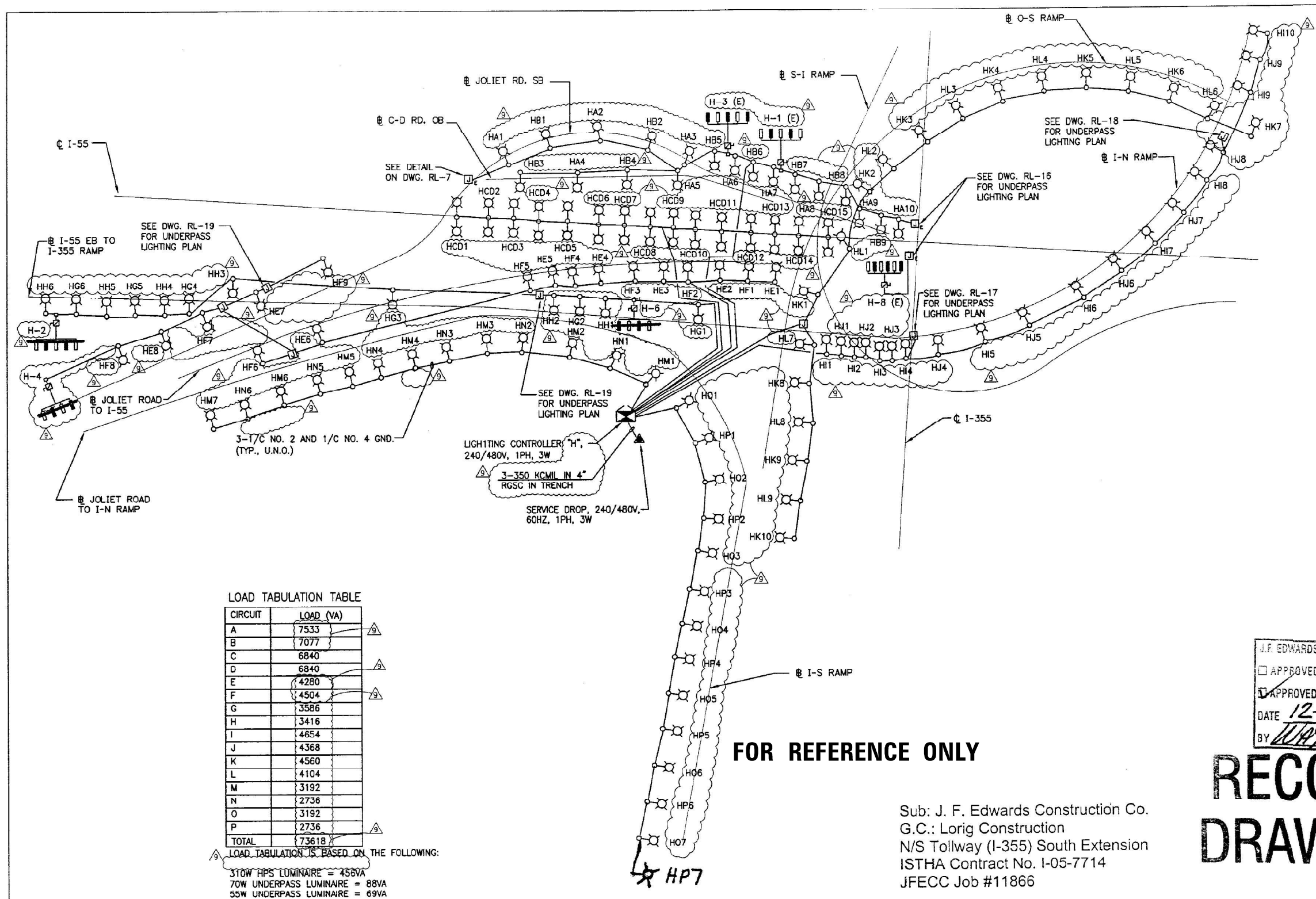
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PLOT DATE = 4/14/2021	DATE - 3/16/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

I-55 OVER IL 53 BRIDGE REHABILITATION RECORD DRAWINGS			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	164
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



LOAD TABULATION TABLE

CIRCUIT	LOAD (VA)
A	7533
B	7077
C	6840
D	6840
E	4280
F	4504
G	3586
H	3416
I	4654
J	4368
K	4560
L	4104
M	3192
N	2736
O	3192
P	2736
TOTAL	73618

LOAD TABULATION IS BASED ON THE FOLLOWING:
 310W HPS LUMINAIRE = 458VA
 70W UNDERPASS LUMINAIRE = 88VA
 55W UNDERPASS LUMINAIRE = 69VA

LIGHTING CONTROLLER "H",
 240/480V, 1PH, 3W
 3-350 KCMIL IN 4"
 RGSC IN TRENCH
 SERVICE DROP, 240/480V,
 60HZ, 1PH, 3W

FOR REFERENCE ONLY

Sub: J. F. Edwards Construction Co.
 G.C.: Lorig Construction
 N/S Tollway (I-355) South Extension
 ISTHA Contract No. I-05-7714
 JFECC Job #11866

J.F. EDWARDS CONSTRUCTION CO.
 APPROVED
 APPROVED AS NOTED
 DATE 12-03-07
 BY WAYNE FRY

**RECORD
DRAWING**

DRAWING ID RL-22
 PLOT DATE

DRAWN M. BALOG DATE 3-1-06
 CHECKED K. M. YENICE SCALE NONE

McDonough Associates Inc.
 Engineers / Architects

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 2700 OGDEN AVENUE
 DOWNERS GROVE, ILLINOIS 60515

NO.	DATE	REVISIONS
1	9/26/06	IDOT ELECTRICAL REVISIONS

CONTRACT I-05-7714
 ONE LINE DIAGRAM
 PROPOSED LIGHTING CONTROLLER "H"

DRAWING NO.
 RL-22
 404 OF 757

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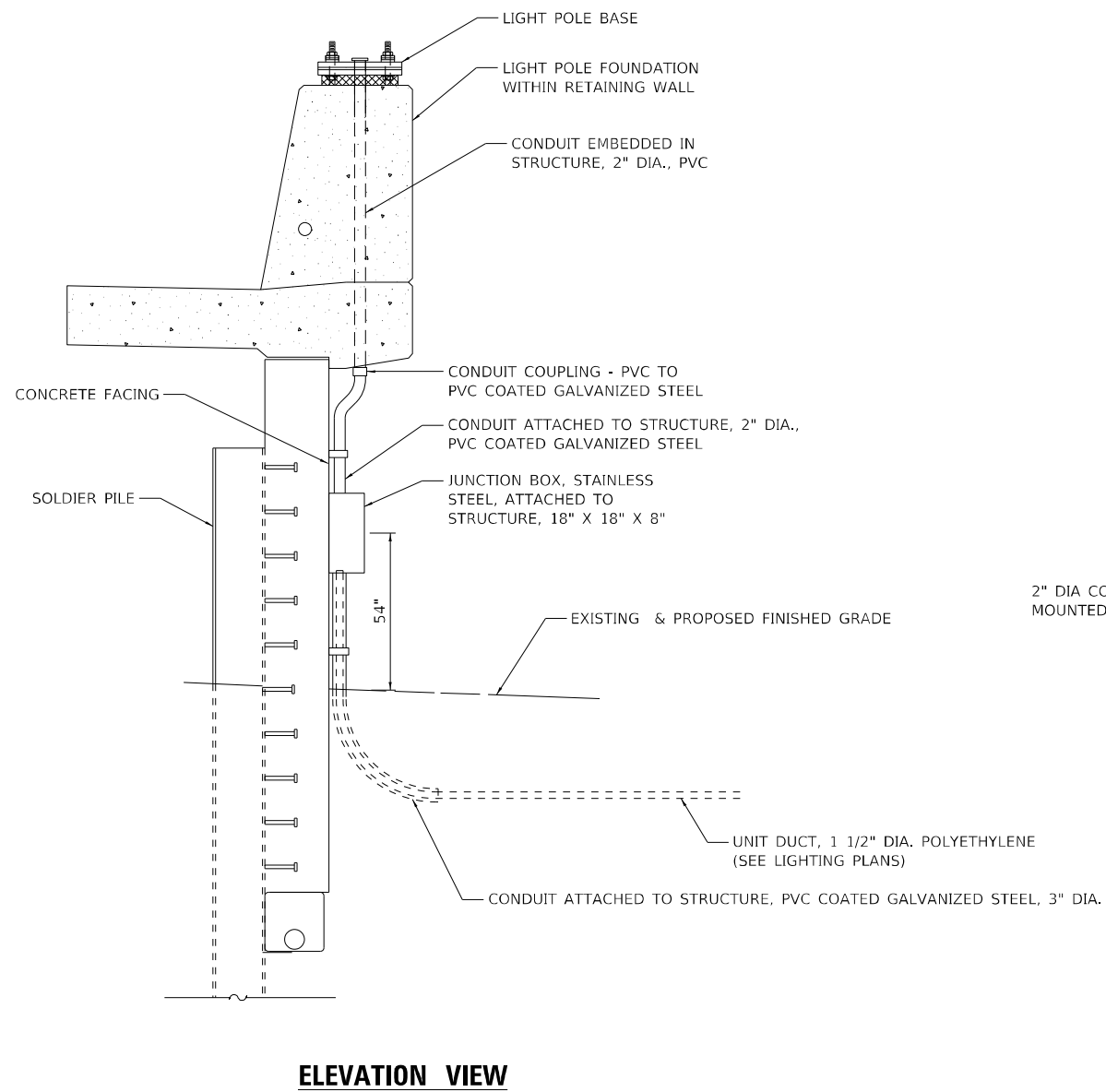
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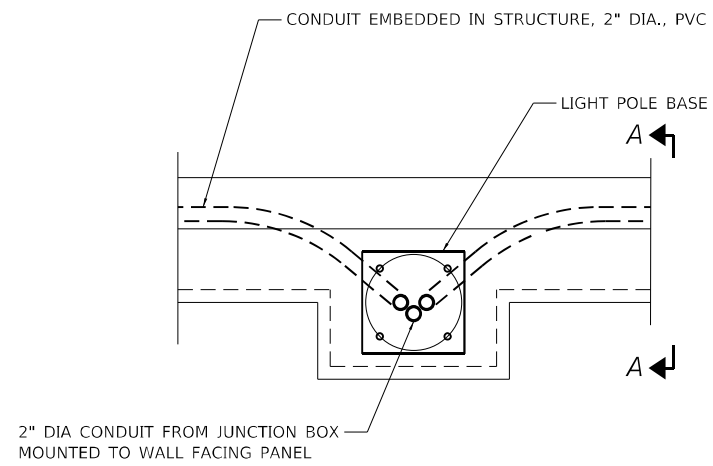
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
RECORD DRAWINGS**
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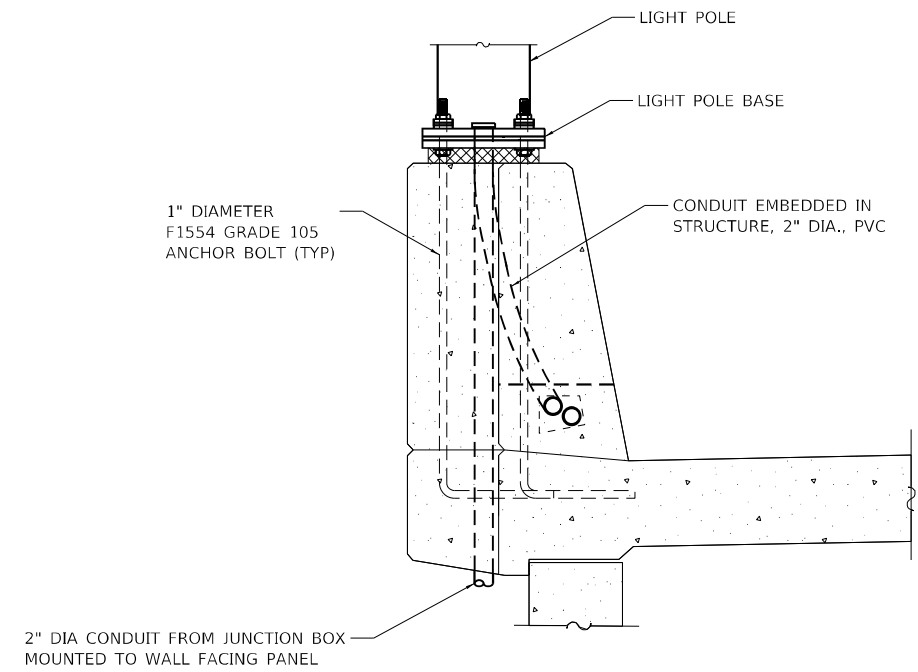
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55	2018-043-BD&BJR	WILL	430	165
CONTRACT NO. 62H03				ILLINOIS FED. AID PROJECT



ELEVATION VIEW



PLAN VIEW



VIEW A-A

NOTES:

1. SEE STRUCTURAL PLANS FOR PARAPET AND WALL DETAILS.
2. CONDUIT ATTACHED TO STRUCTURE INCLUDED IN THE COST OF JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8".

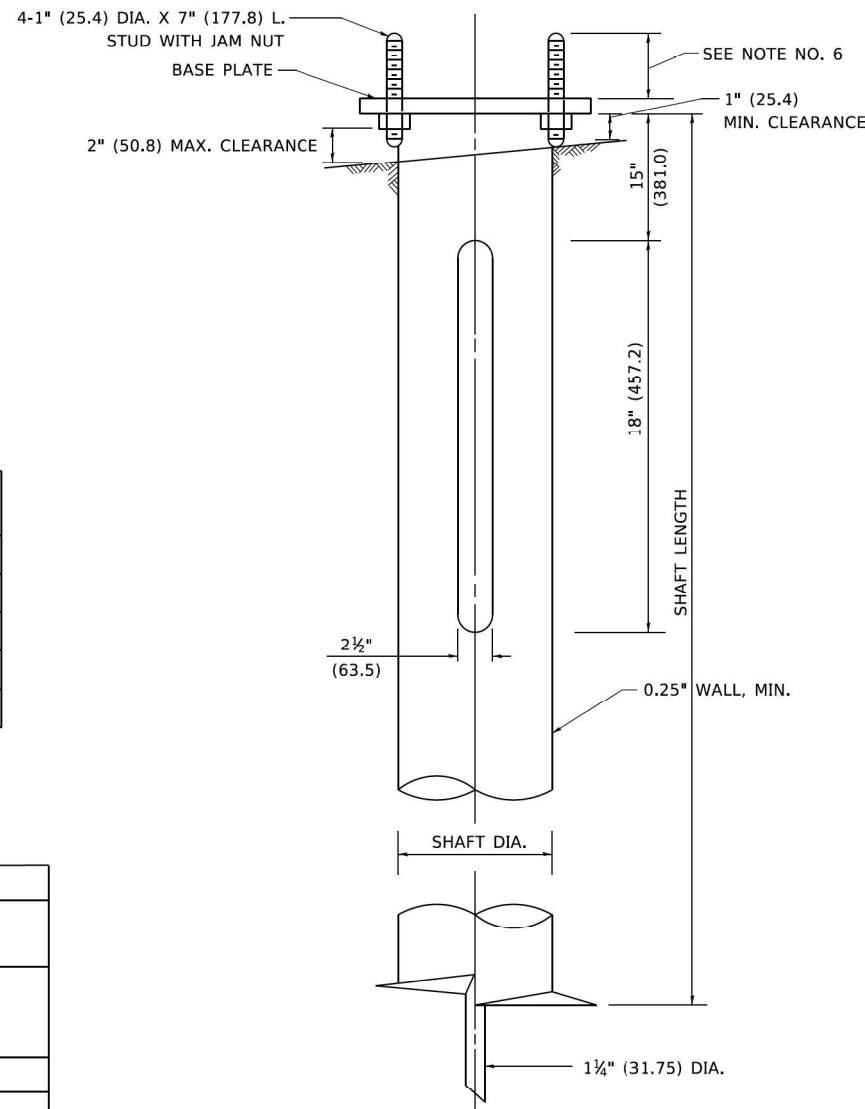
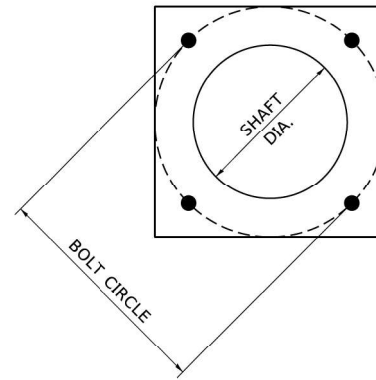
UNDERGROUND CONDUIT TO RETAINING WALL MOUNTED LIGHTING TRANSITION DETAIL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	166
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M. GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

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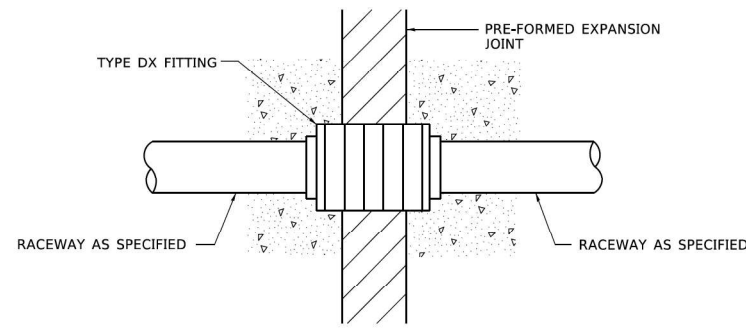
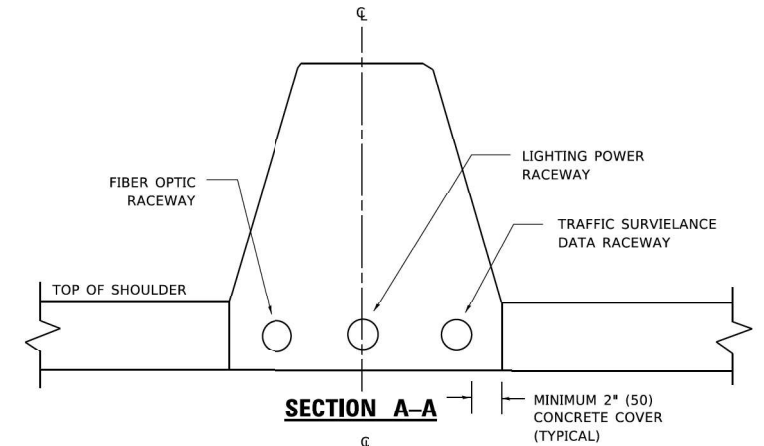
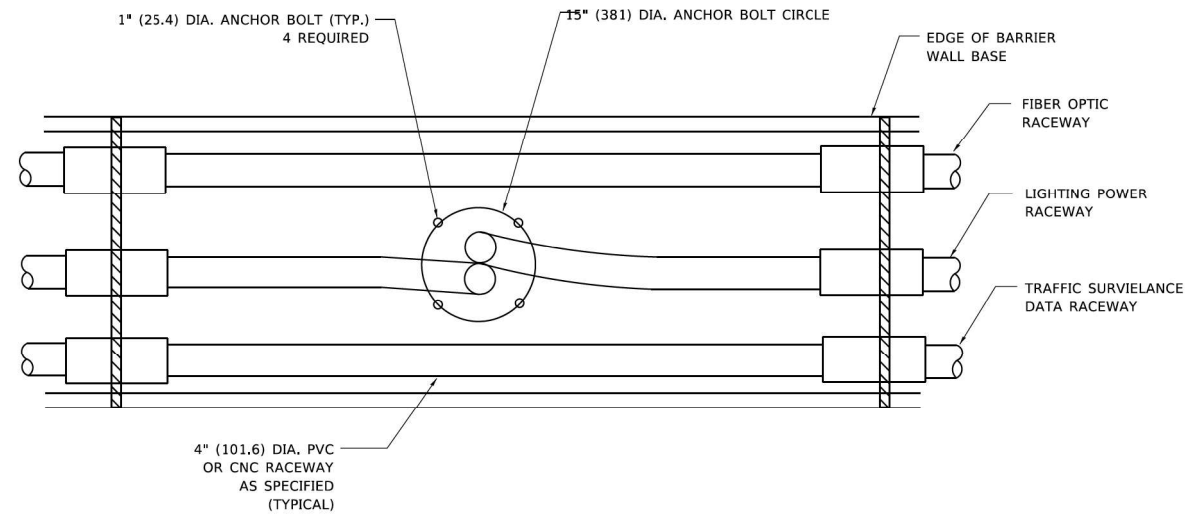
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHT POLE FOUNDATION, METAL
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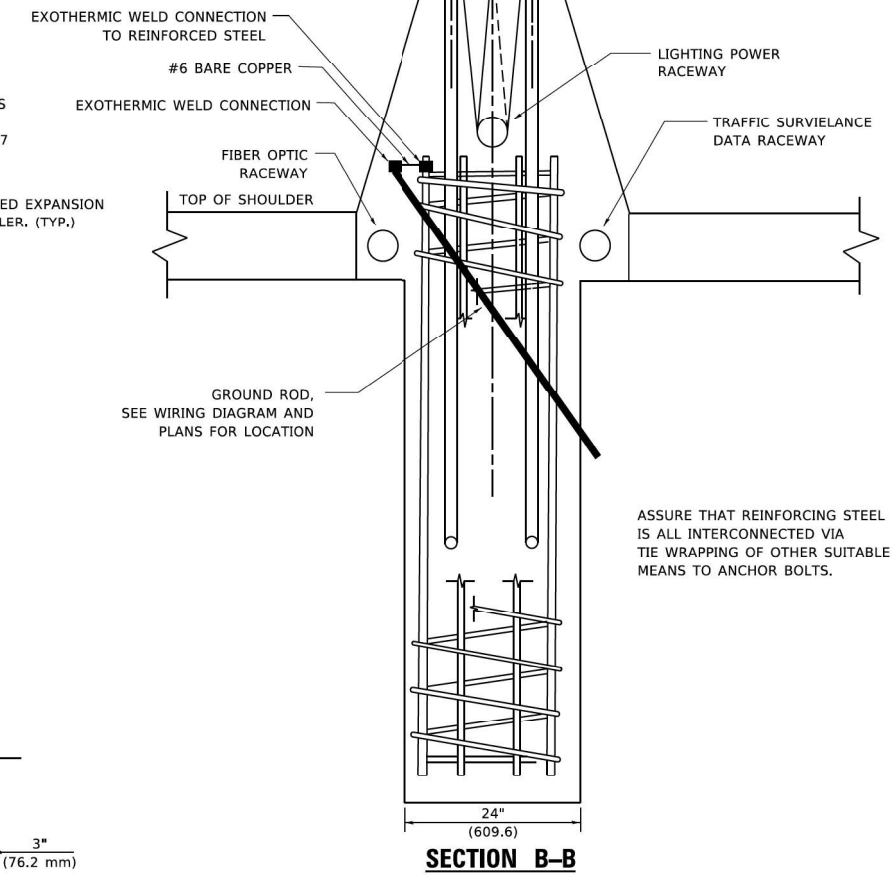
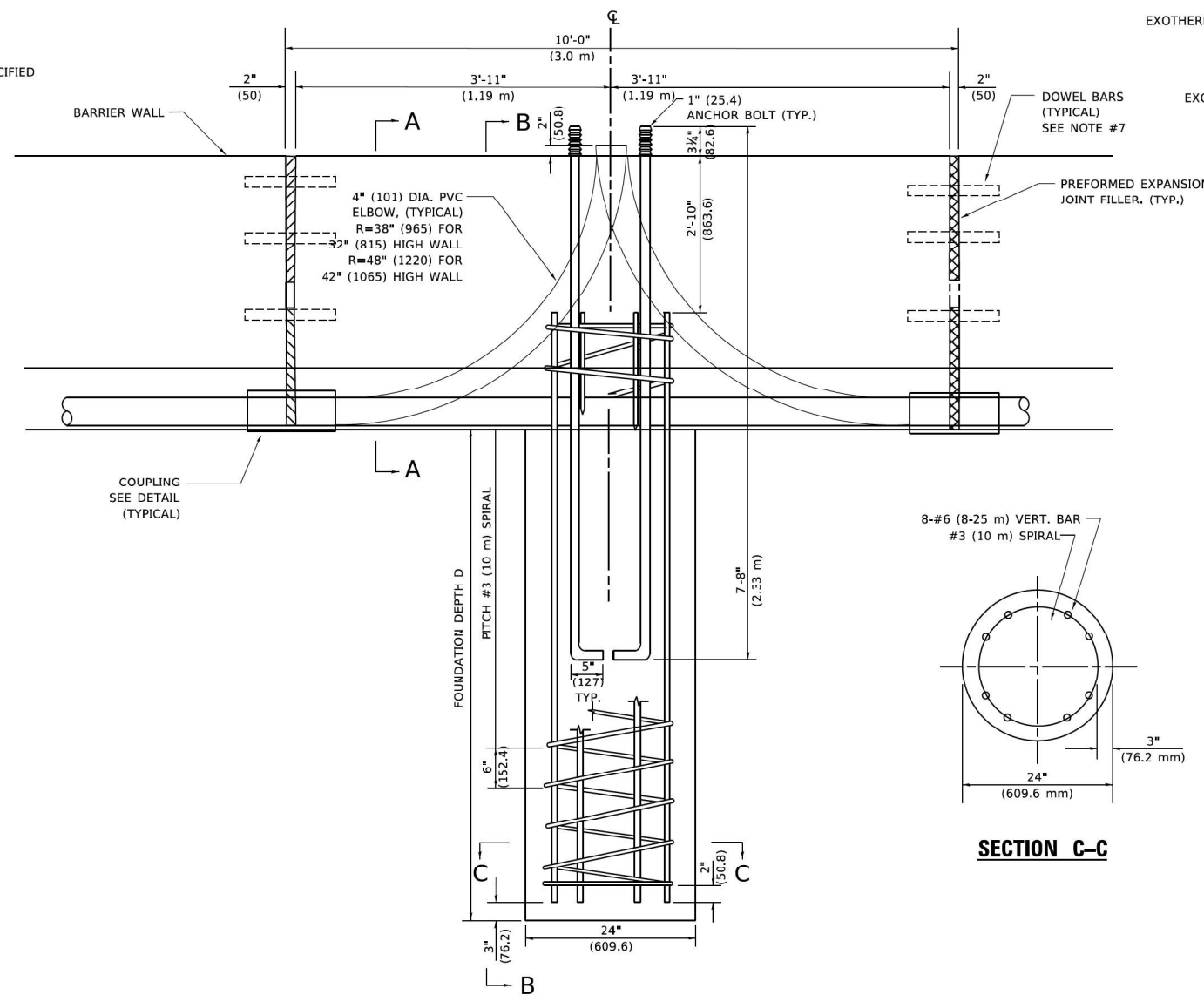
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	167
BE-305			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS.
- THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE #4 (15 m) TIES AT 12" (304.8 m) CTRS. FOR THE #3 (3 m) SPIRAL. TACKWELDED TYPE BOLT MAY BE SUBSTITUTED FOR THE HOOK TYPE BOLT.
- COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
- EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24 INCHES (609.6 m) IN DIAMETER.
- THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
- BARRIER WALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 637001-02 AND 637006 AS APPLICABLE.



CONDUIT DEFLECTION FITTING DETAIL

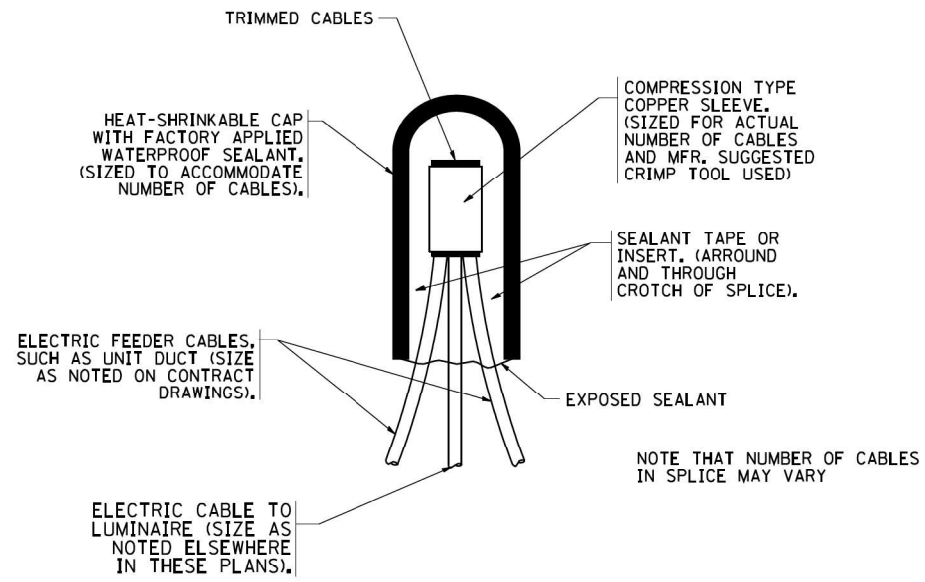


FOUNDATION DEPTH

TYPE OF SOIL	FOUND FEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
ROCK OR SOLIDIFIED SLAG	5'-0" (1.52 m)	NONE	NONE
DENSE SAND	7'-9" (2.36 m)	8-#6 x 9'-0" (8-20 m x 2.74 m)	#3 x 90' (3 m x 27.43 m)
MEDIUM SAND	8'-3" (2.51 m)	8-#6 x 9'-5" (8-20 m x 2.87 m)	#3 x 94' (3 m x 28.65 m)
LOOSE SAND	9'-0" (2.74 m)	8-#6 x 10'-2" (8-20 m x 3.09 m)	#3 x 100' (3 m x 30.48 m)
STIFF CLAY	7'-0" (2.13 m)	8-#6 x 10'-8" (8-20 m x 2.48 m)	#3 x 80' (3 m x 24.38 m)
MFDIUM CLAY	9'-6" (2.89 m)	8-#6 x 10'-8" (8-20 m x 3.25 m)	#3 x 104' (3 m x 31.69 m)
SOFT CLAY	13'-0" (3.96 m)	8-#6 x 14'-2" (8-20 m x 4.32 m)	#3 x 144' (3 m x 43.89 m)

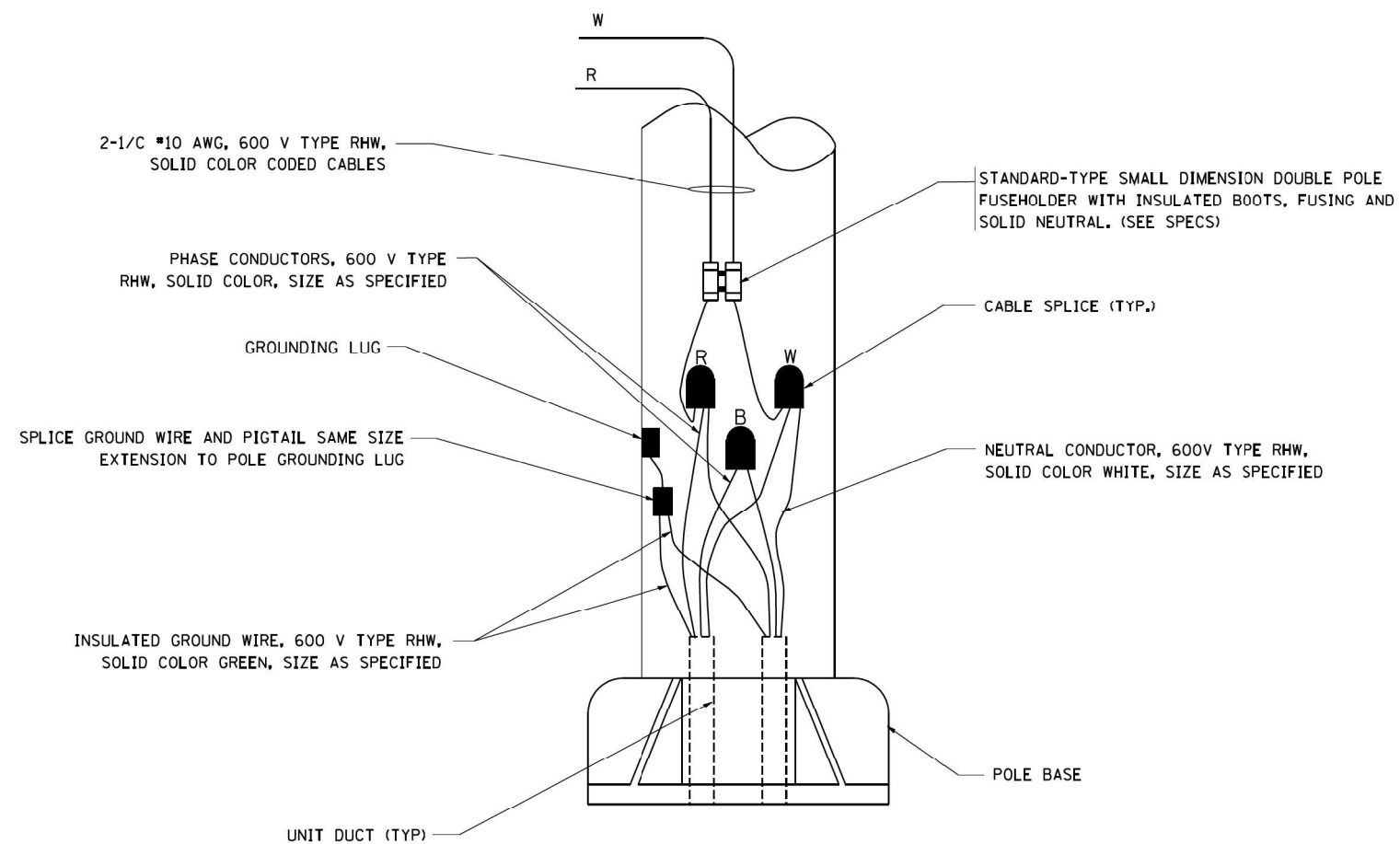
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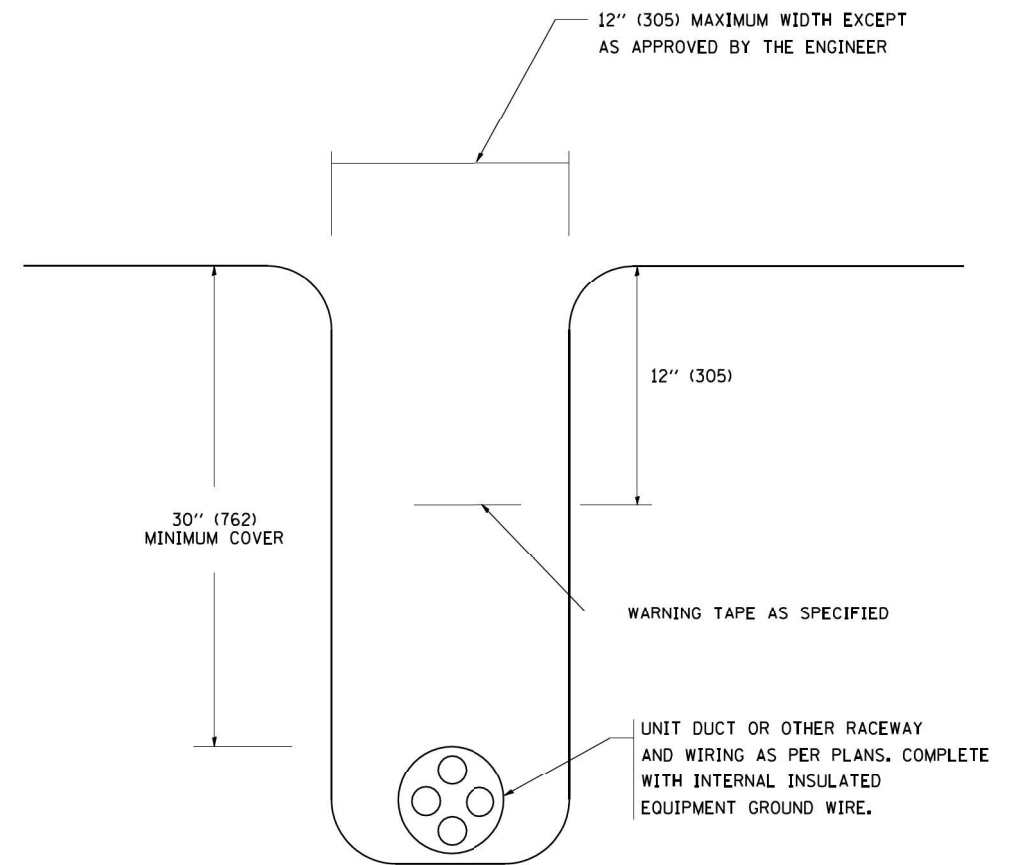
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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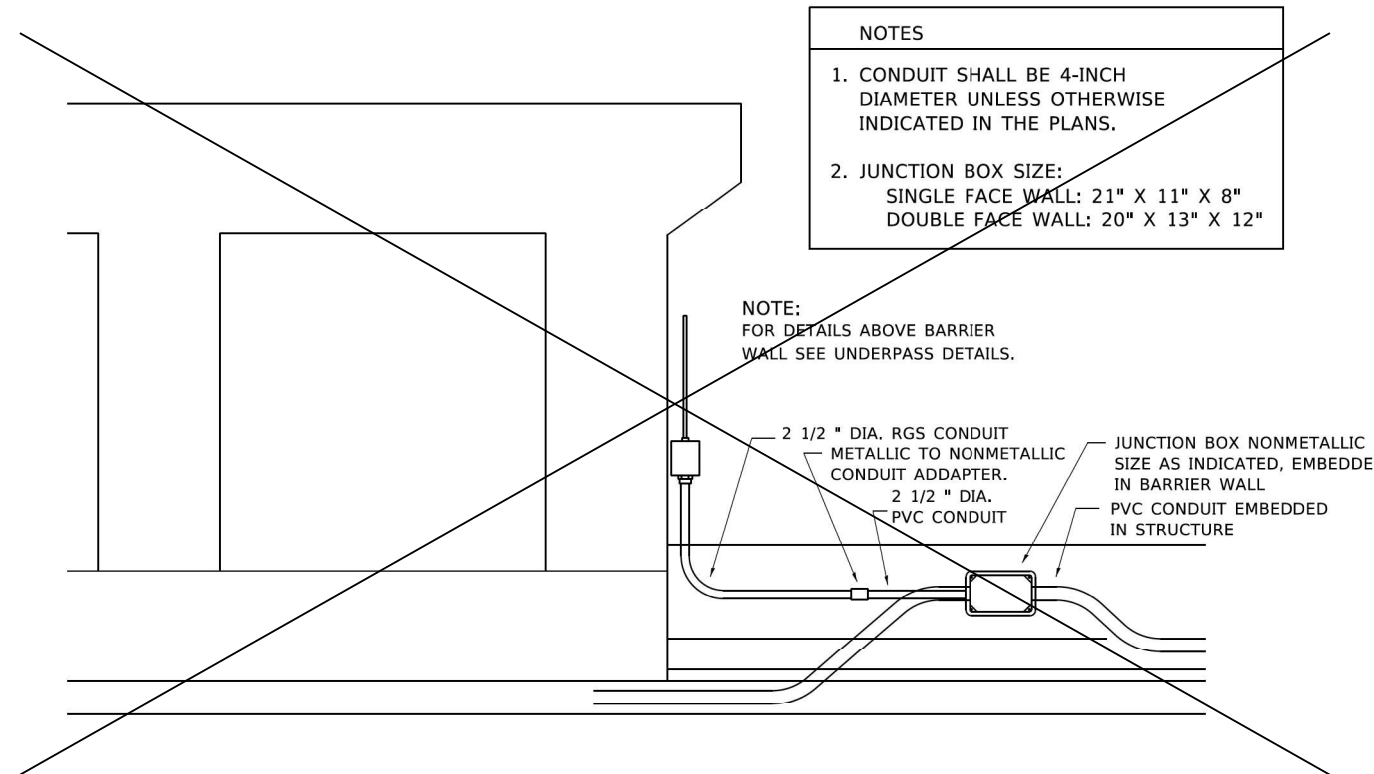
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	169
BE-702		CONTRACT NO. 62H03		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

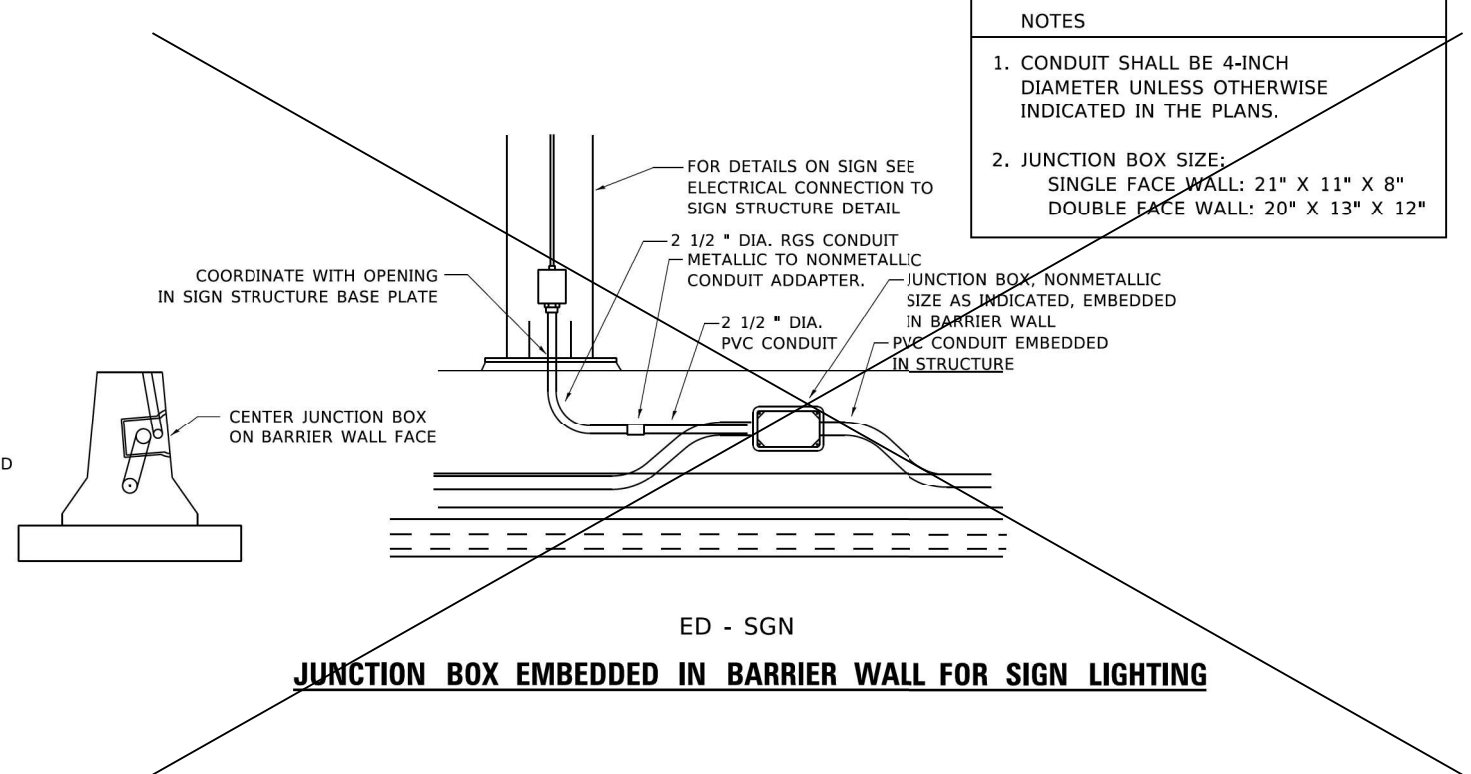


NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

NOTE:
FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

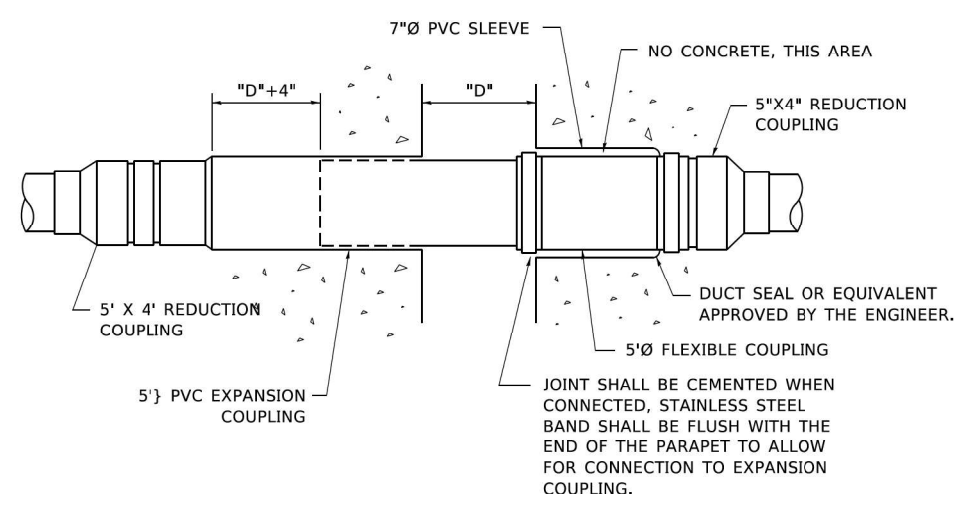
ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



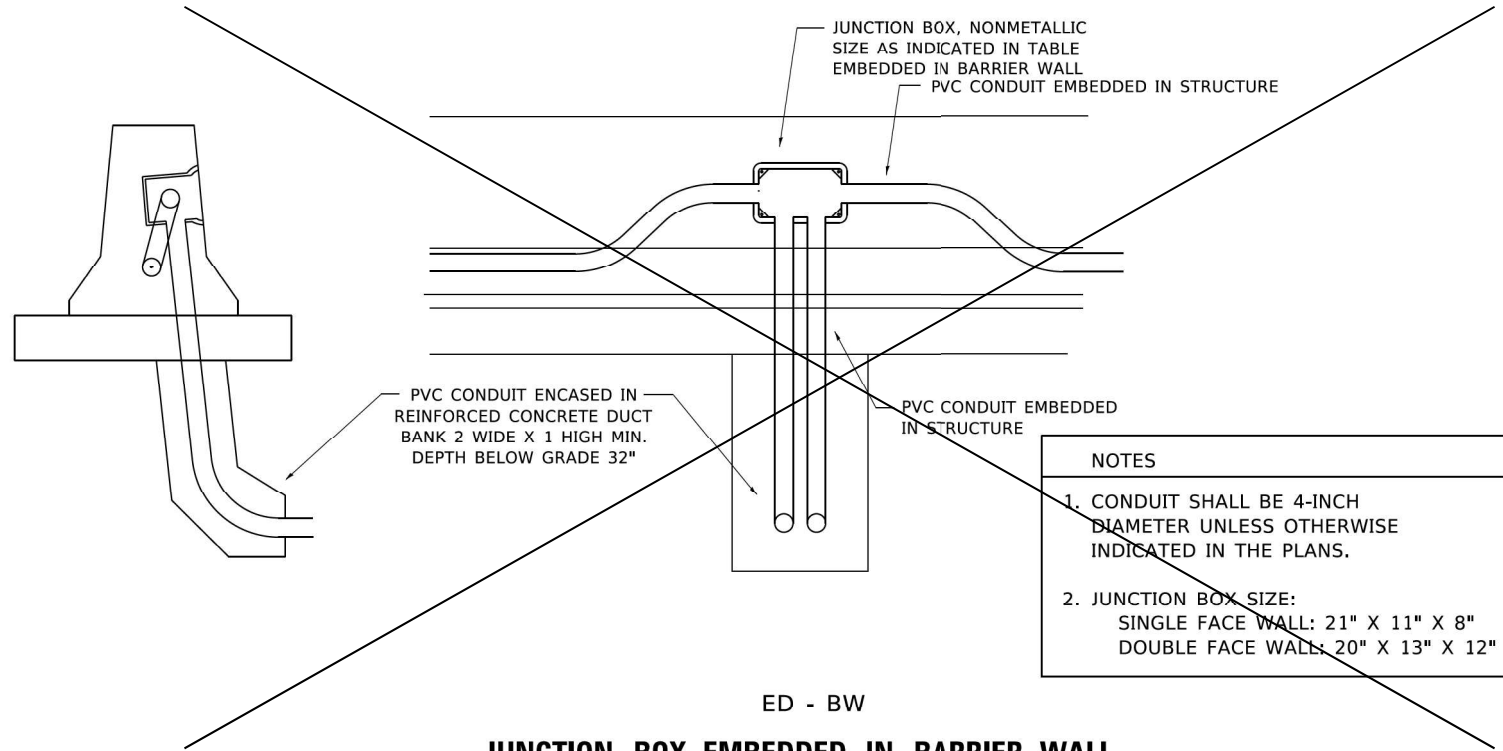
NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)



NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

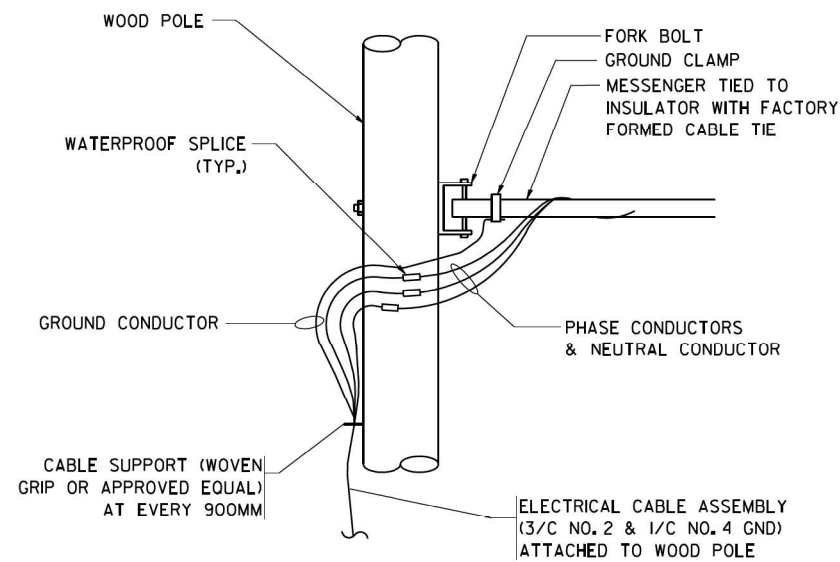
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	DRAWN -	REVISED -
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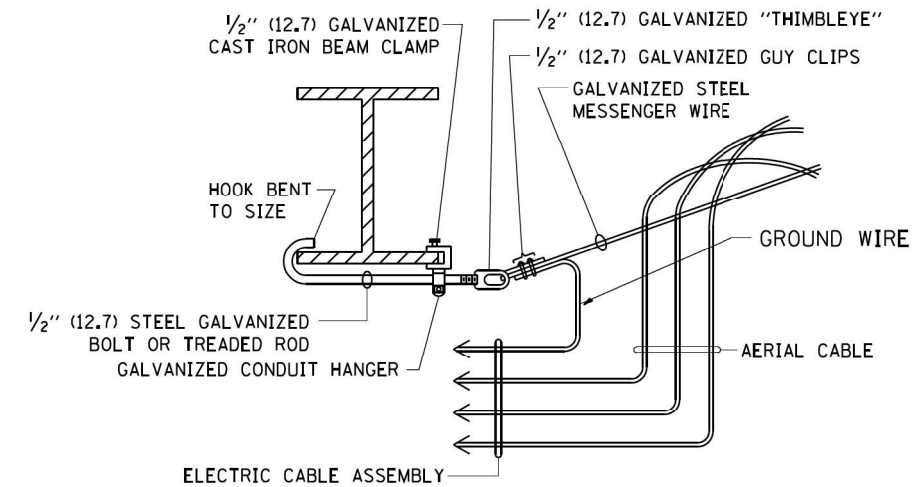
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B			
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 170
BE-703			CONTRACT NO. 62H03	
ILLINOIS FED. AID PROJECT				



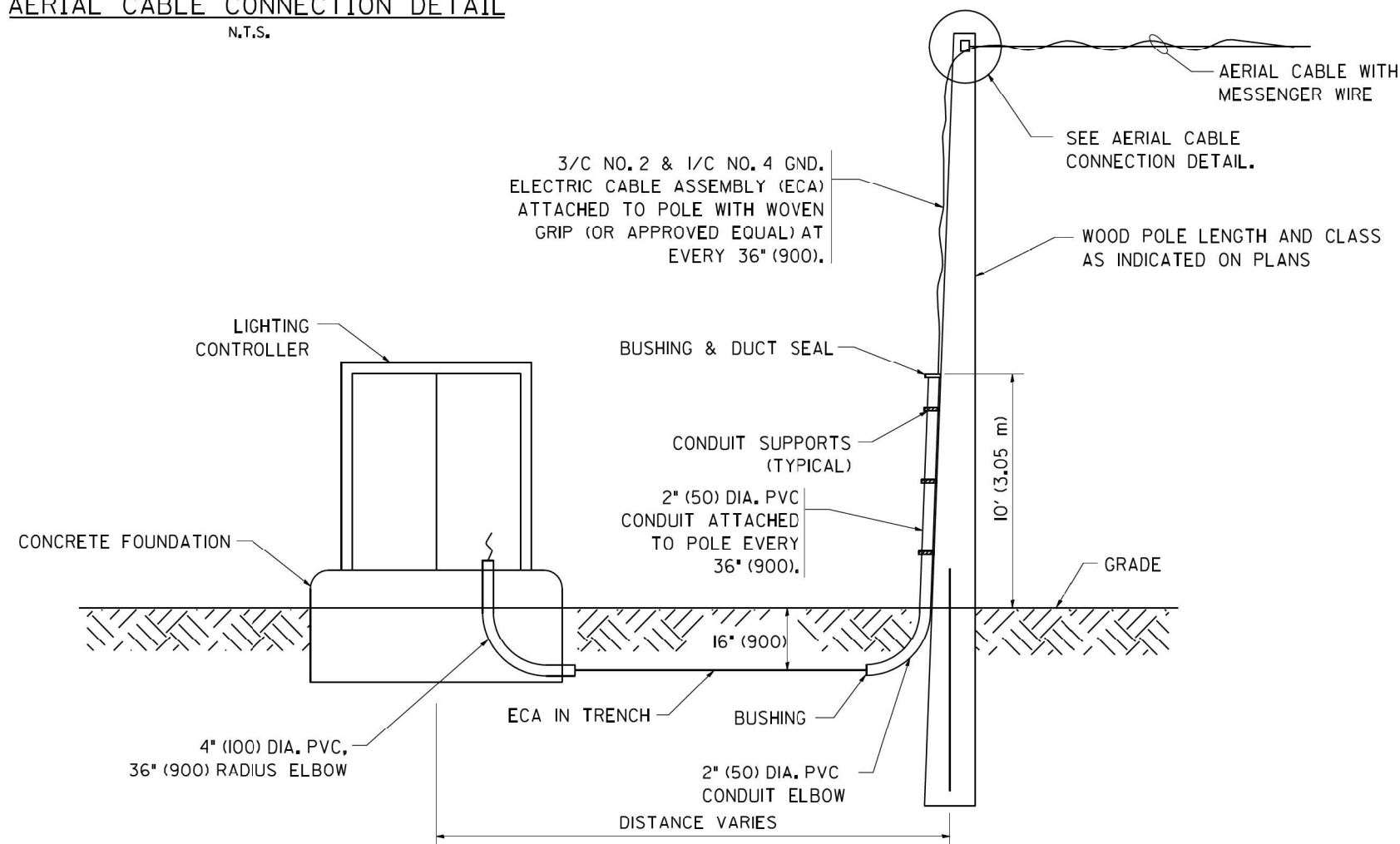
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

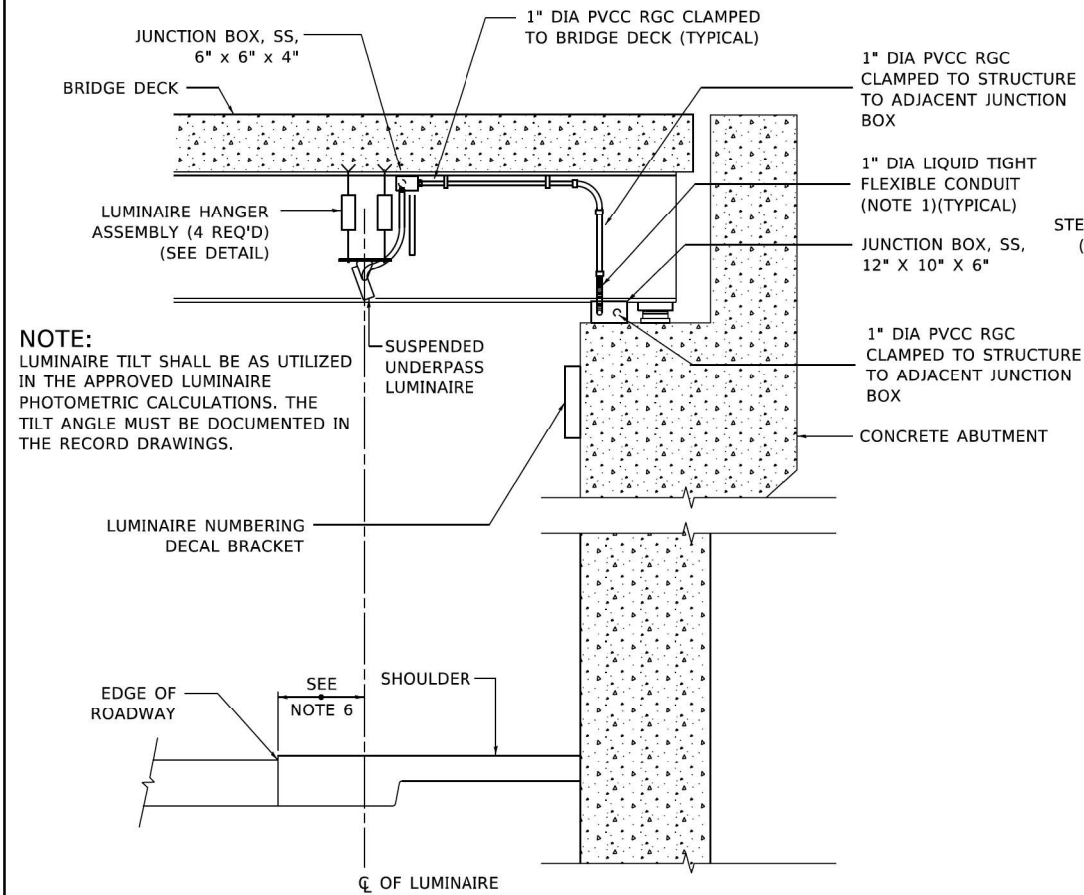
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



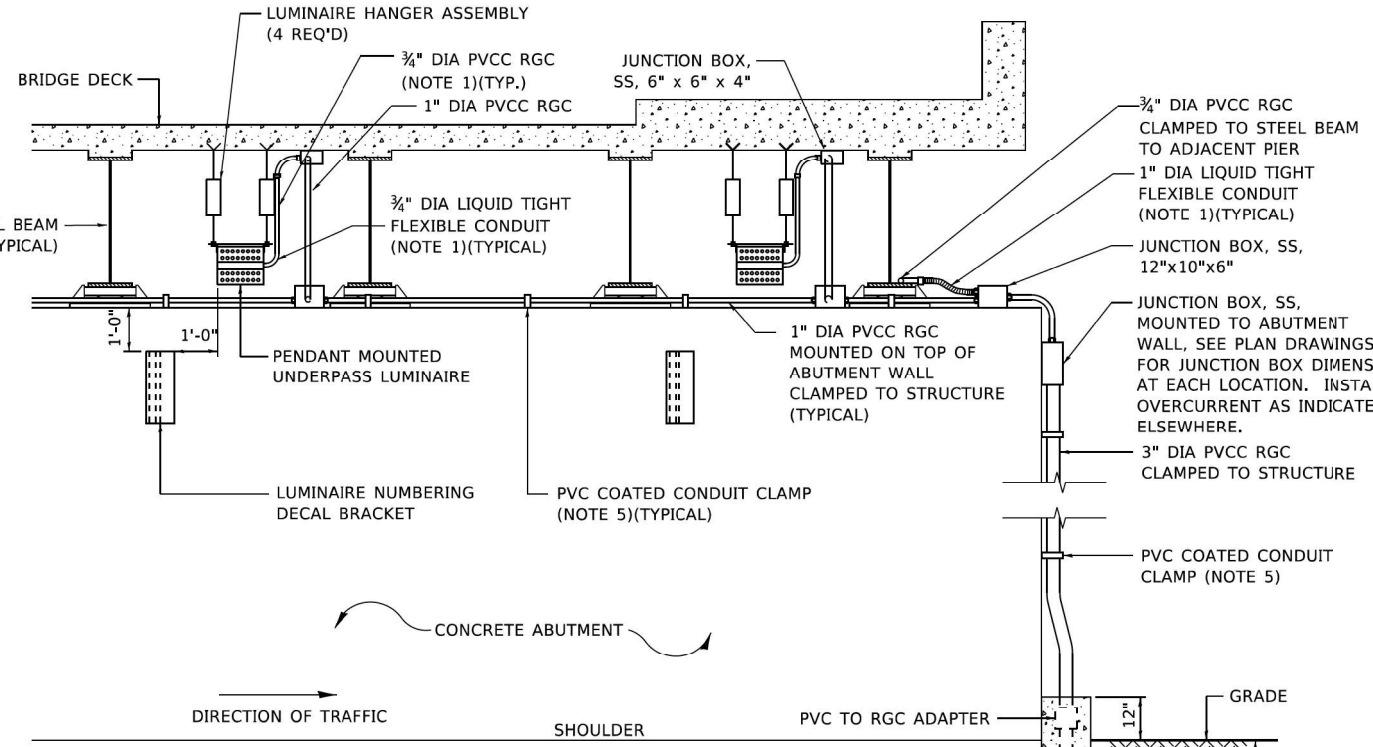
WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

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PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	REVISED -		55	2018-043-BD&BJR	WILL	430	172			
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		BE-801		CONTRACT NO. 62H03		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

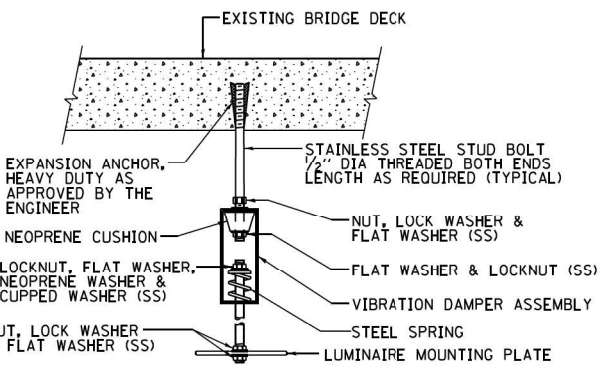
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.



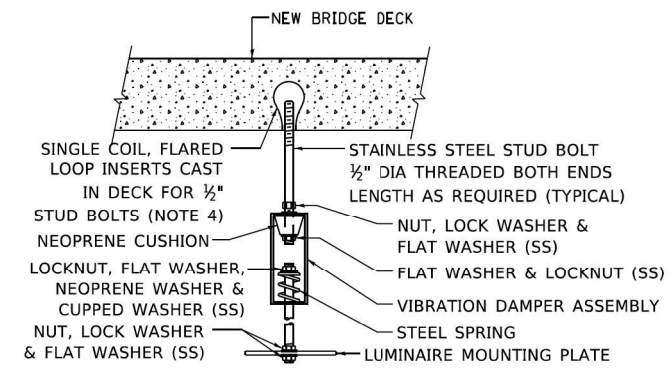
NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - 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 SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
 - IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

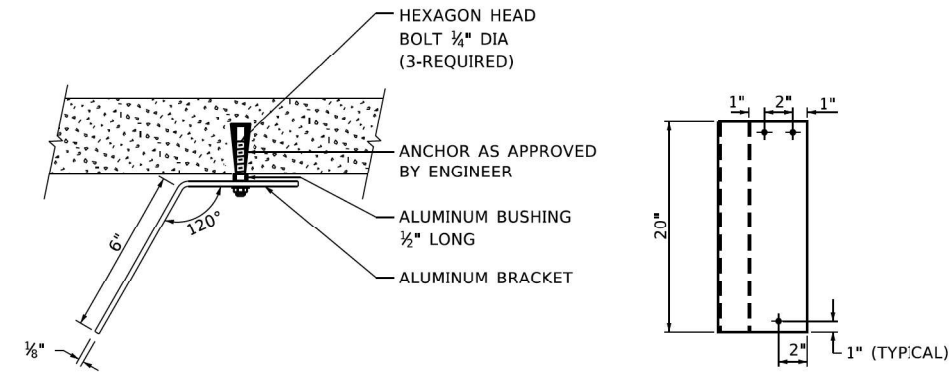


EXISTING BRIDGE DECK INSTALLATION



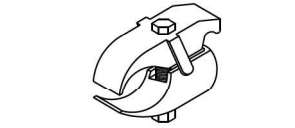
NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

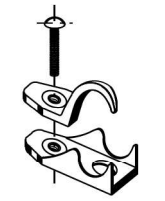


LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE



PVC COATED CONDUIT CLAMP
NOT TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

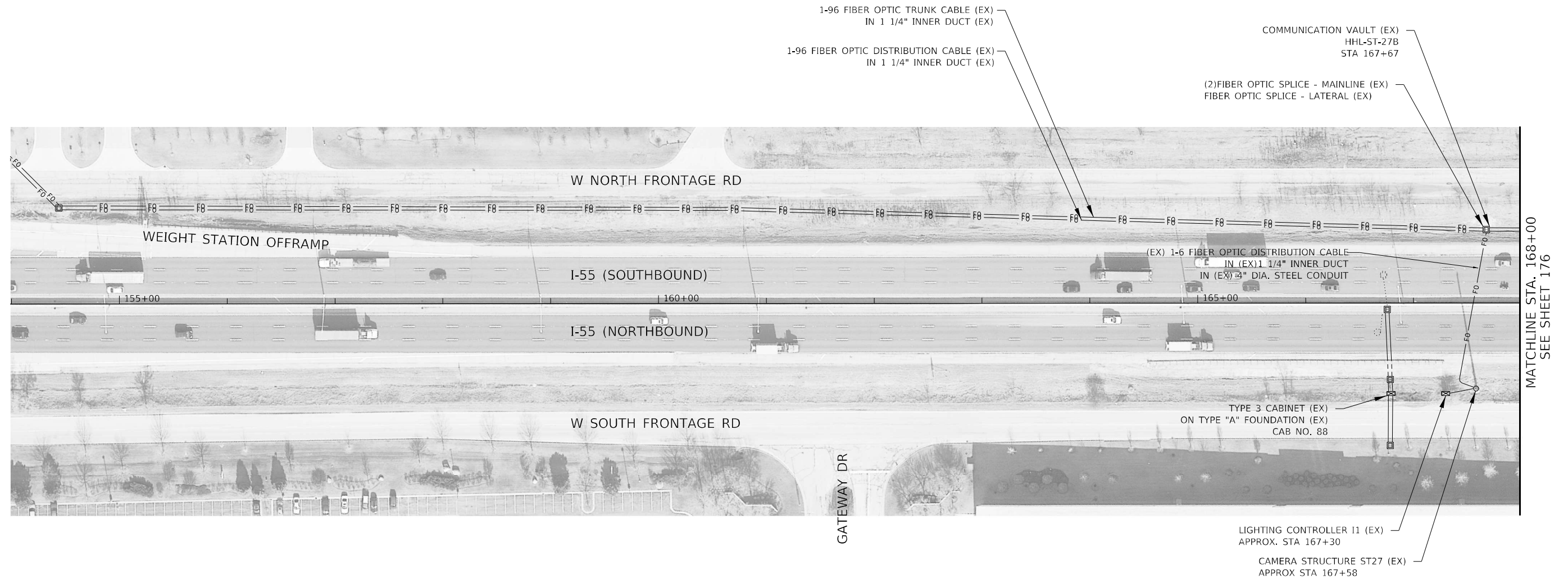
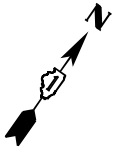
**SUSPENDED MOUNT LED UNDERPASS
LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	173
BE-901		CONTRACT NO. 62H03		
ILLINOIS FED. AID PROJECT				

NOTES

- 1. CONTRACTOR TO VERIFY EXISTING EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.



MATCHLINE STA. 168+00
SEE SHEET 176



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

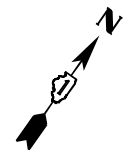
**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	175
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.



REMOVE FIBER OPTIC CABLE FROM CONDUIT
(96 FIBER TRUNK CABLE)

REMOVE FIBER OPTIC CABLE FROM CONDUIT
(96 FIBER DISTRIBUTION CABLE)

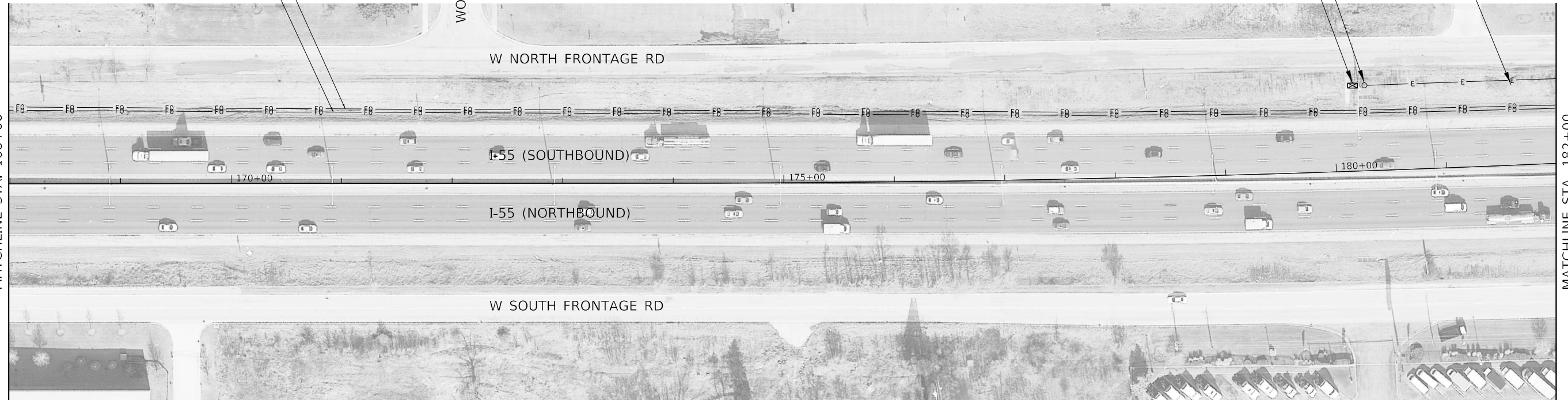
WOODCREEK DR

WEIGH STATION PREPASS POLE AND EQUIPMENT (EX)
APPROX. STA 180+28

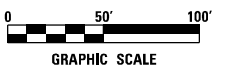
WEIGH STATION CABINET (EX)
APPROX. STA 180+13

1 - FIBER OPTIC CABLE (EX)
1 - ELECTRIC CABLE IN CONDUIT (EX)
(WEIGH STATION EQUIPMENT)

SEE SHEET 175
MATCHLINE STA. 168+00



MATCHLINE STA. 182+00
SEE SHEET 177



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

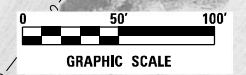
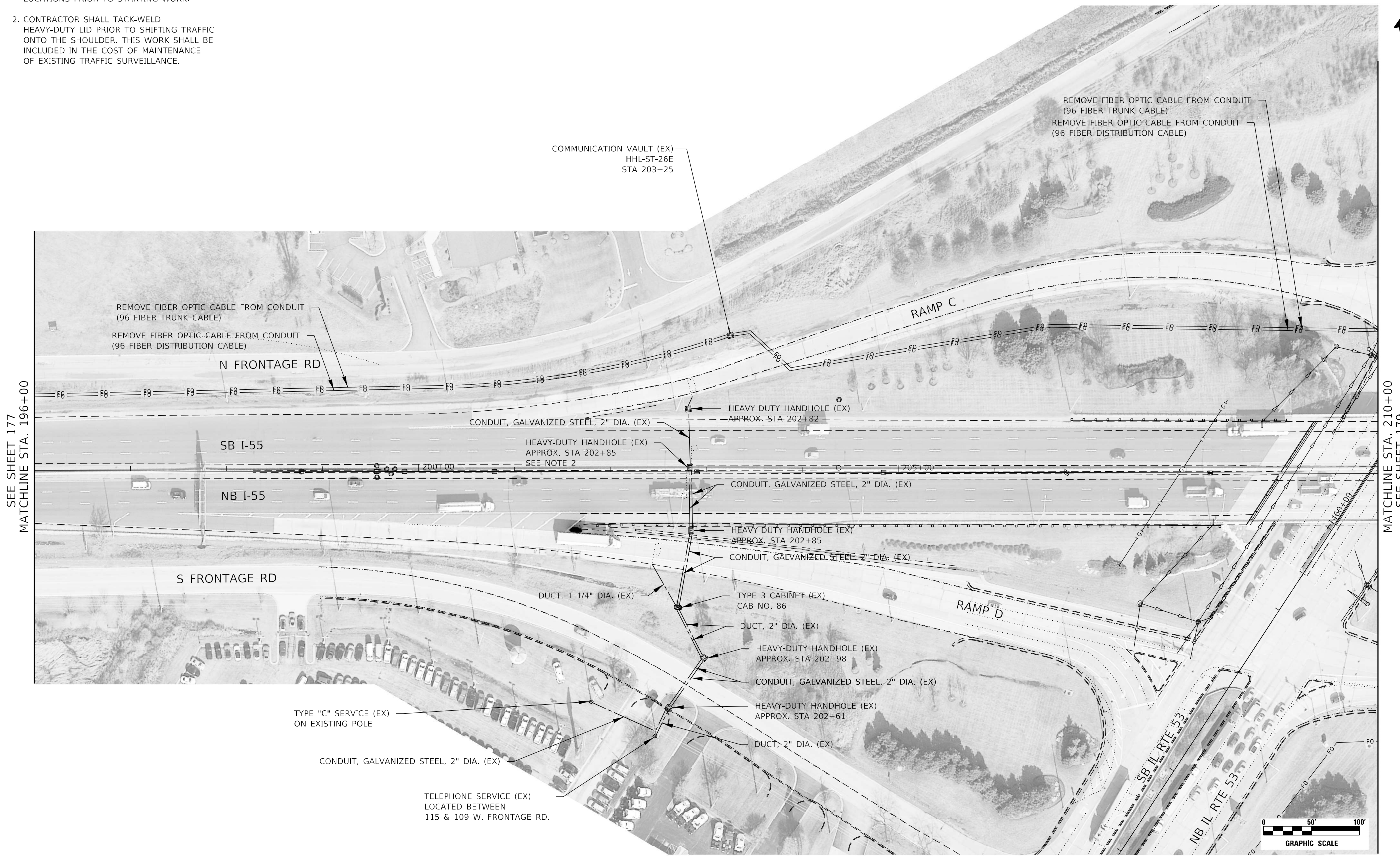
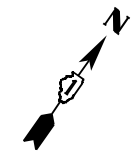
**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	176
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				

NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. CONTRACTOR SHALL TACK-WELD HEAVY-DUTY LID PRIOR TO SHIFTING TRAFFIC ONTO THE SHOULDER. THIS WORK SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE.



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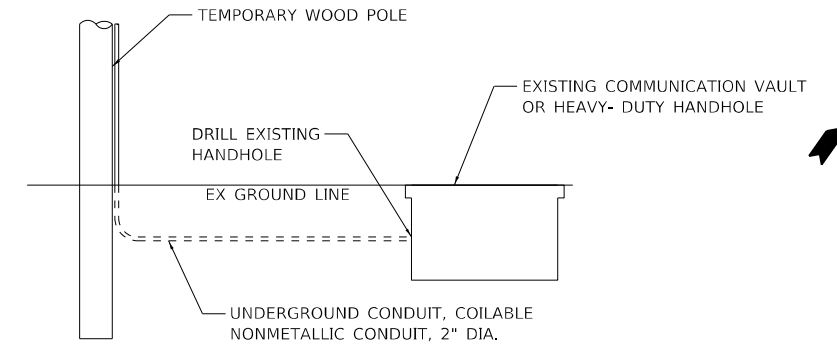
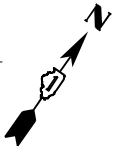
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

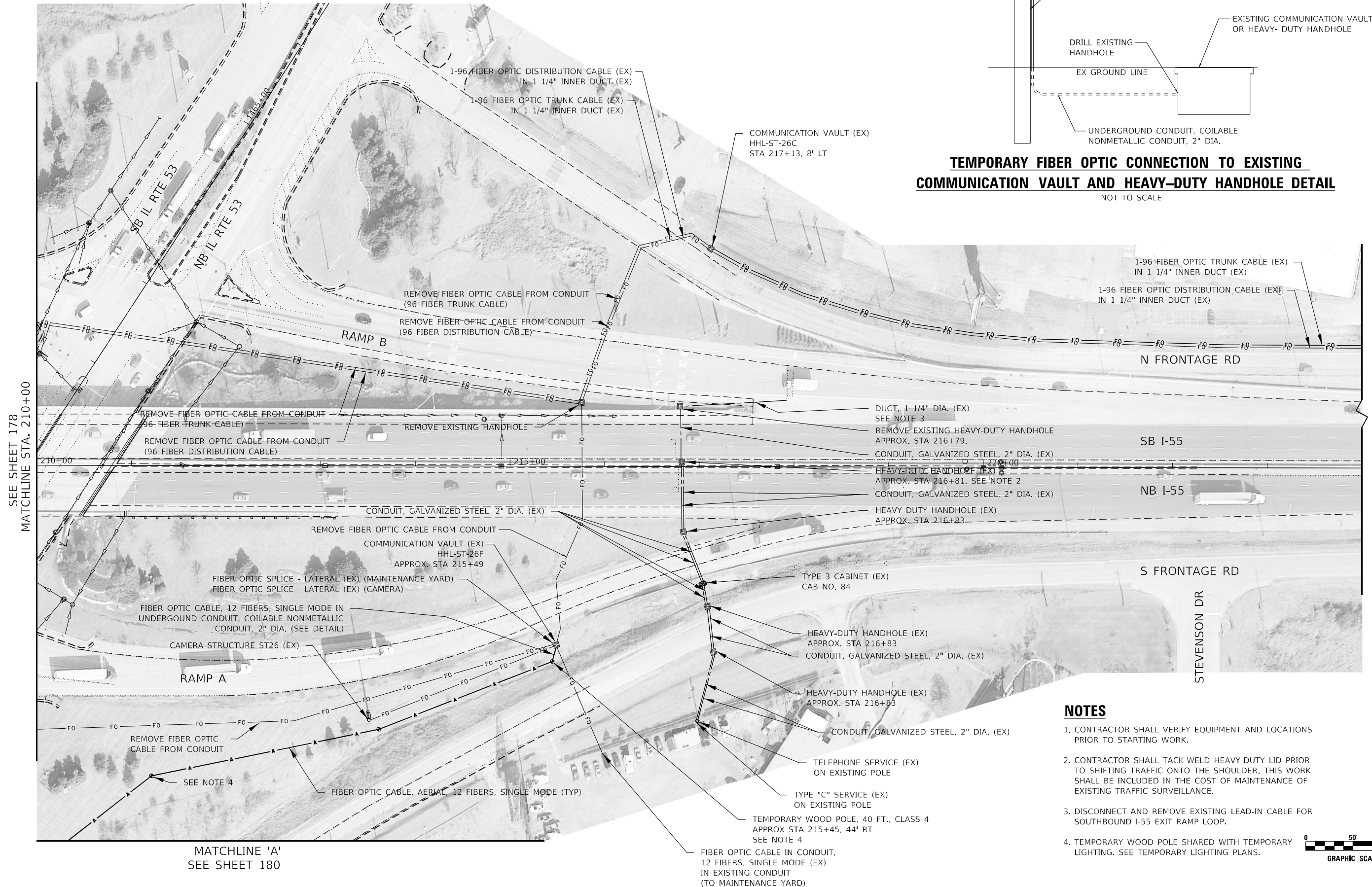
**I-55 OVER IL 53 BRIDGE REHABILITATION
 TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
 I-55 OVER IL ROUTE 53**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	178
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. TO STA.



TEMPORARY FIBER OPTIC CONNECTION TO EXISTING COMMUNICATION VAULT AND HEAVY-DUTY HANDHOLE DETAIL
NOT TO SCALE



NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. CONTRACTOR SHALL TACK-WELD HEAVY-DUTY LID PRIOR TO SHIFTING TRAFFIC ONTO THE SHOULDER. THIS WORK SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE.
3. DISCONNECT AND REMOVE EXISTING LEAD-IN CABLE FOR SOUTHBOUND I-55 EXIT RAMP LOOP.
4. TEMPORARY WOOD POLE SHARED WITH TEMPORARY LIGHTING. SEE TEMPORARY LIGHTING PLANS.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

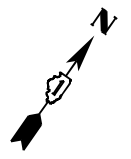
**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. TO STA.

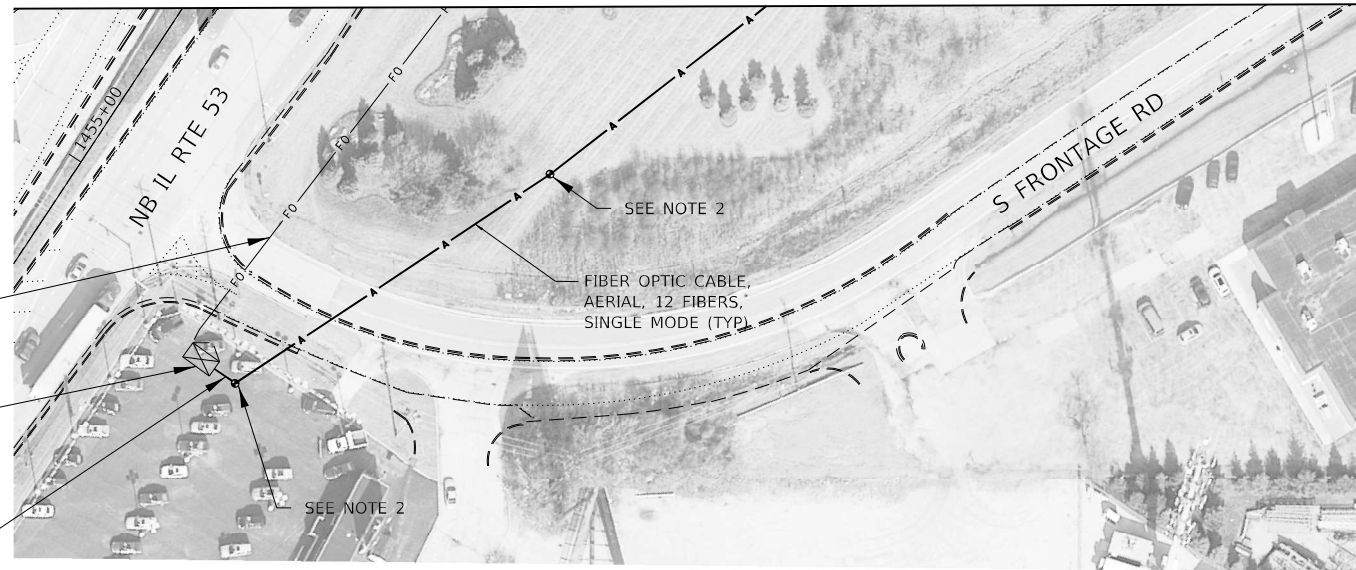
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	179
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. TEMPORARY WOOD POLE SHARED WITH TEMPORARY LIGHTING. SEE TEMPORARY LIGHTING PLANS.



SEE SHEET 179
MATCHLINE 'A'



REMOVE FIBER OPTIC CABLE FROM CONDUIT

EX LIGHTING CONTROLLER "I"
240/480V, 1PH, 3 WIRE
APPROX STA 1454+49, 51' RT

UNIT DUCT, 600V, 3-1C NO.2,
1/C NO.4 GROUND, (XLP-TYPE USE),
1 1/2" DIA. POLYETHYLENE
SEE DETAIL ON SHEET 139

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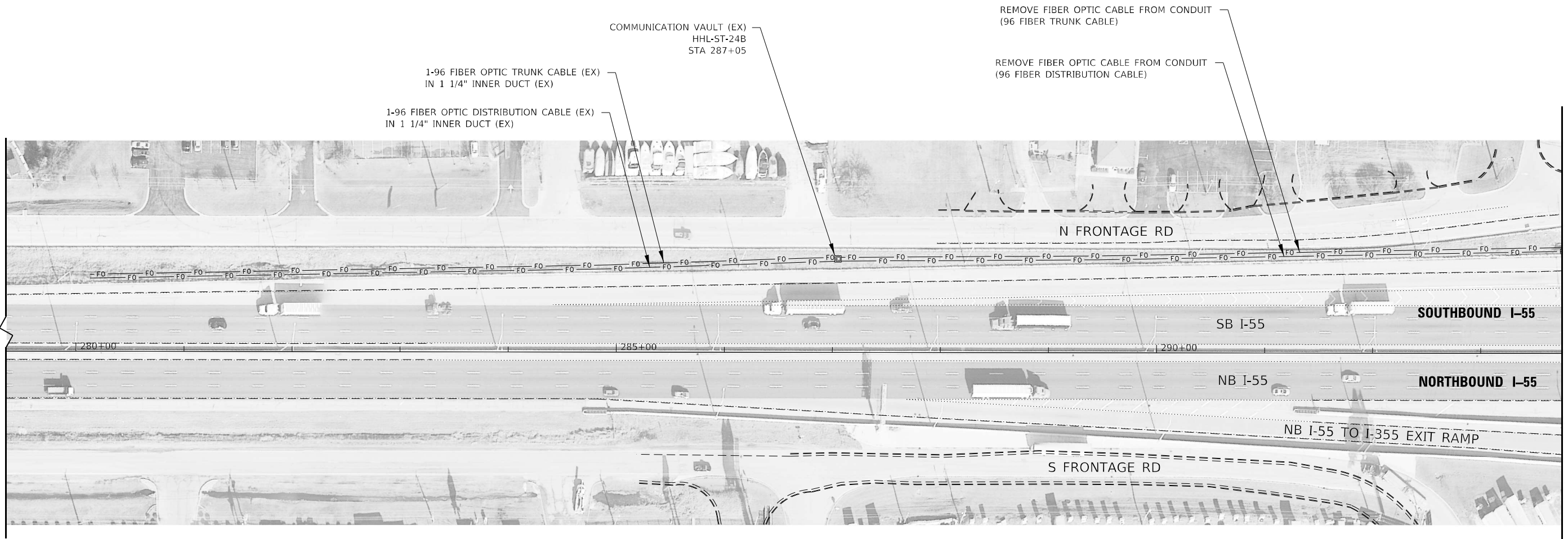
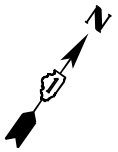
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

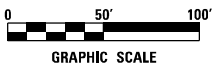
**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	180
CONTRACT NO. 62H03				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 293+75
SEE SHEET 182



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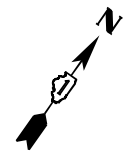
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER JOLIET ROAD**

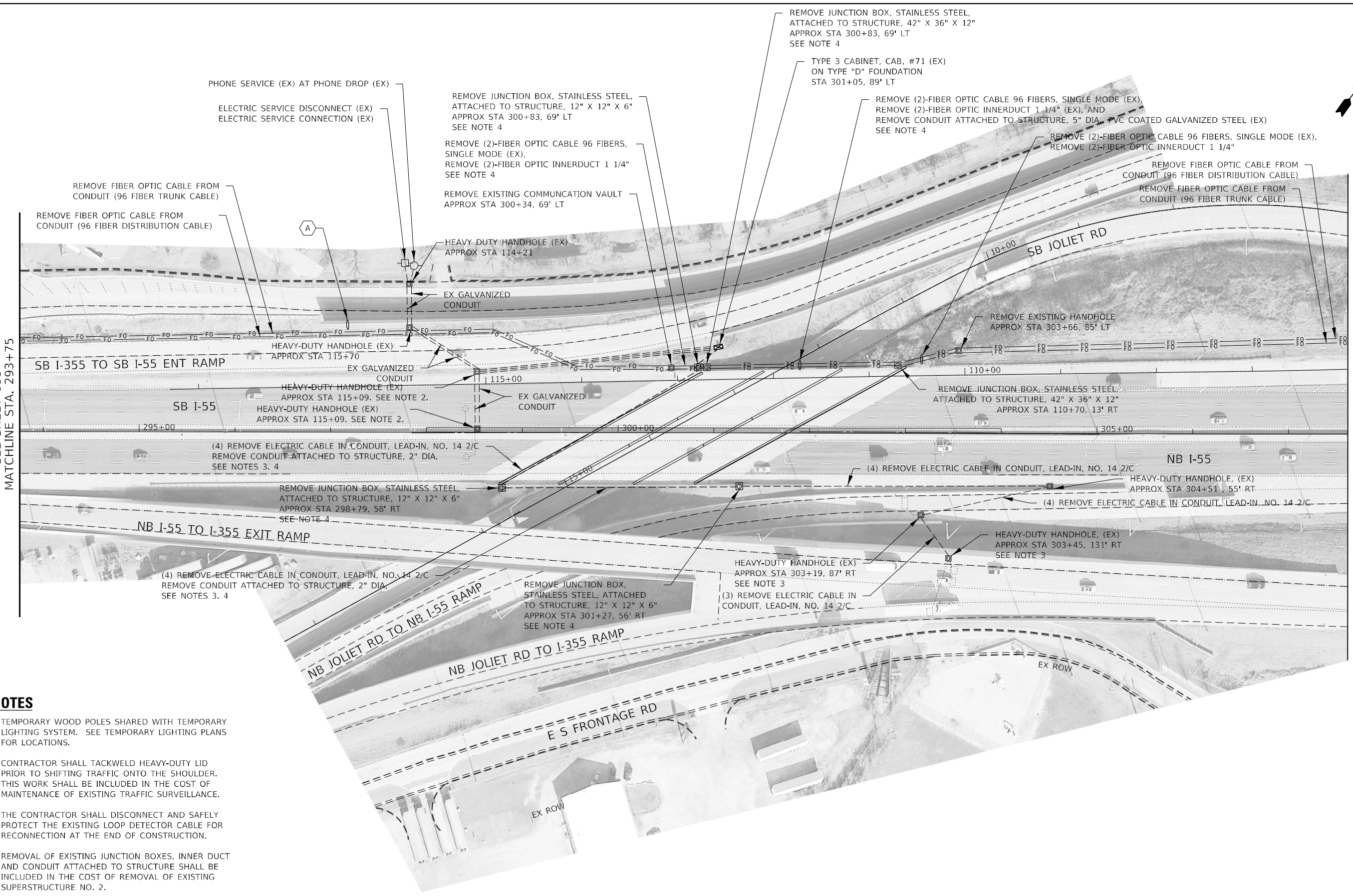
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



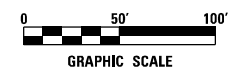
SEE SHEET 181
MATCHLINE STA. 293+75

MATCHLINE STA. 307+60
SEE SHEET 183



NOTES

1. TEMPORARY WOOD POLES SHARED WITH TEMPORARY LIGHTING SYSTEM. SEE TEMPORARY LIGHTING PLANS FOR LOCATIONS.
2. CONTRACTOR SHALL TACKWELD HEAVY-DUTY LID PRIOR TO SHIFTING TRAFFIC ONTO THE SHOULDER. THIS WORK SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE.
3. THE CONTRACTOR SHALL DISCONNECT AND SAFELY PROTECT THE EXISTING LOOP DETECTOR CABLE FOR RECONNECTION AT THE END OF CONSTRUCTION.
4. REMOVAL OF EXISTING JUNCTION BOXES, INNER DUCT AND CONDUIT ATTACHED TO STRUCTURE SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING SUPERSTRUCTURE NO. 2.



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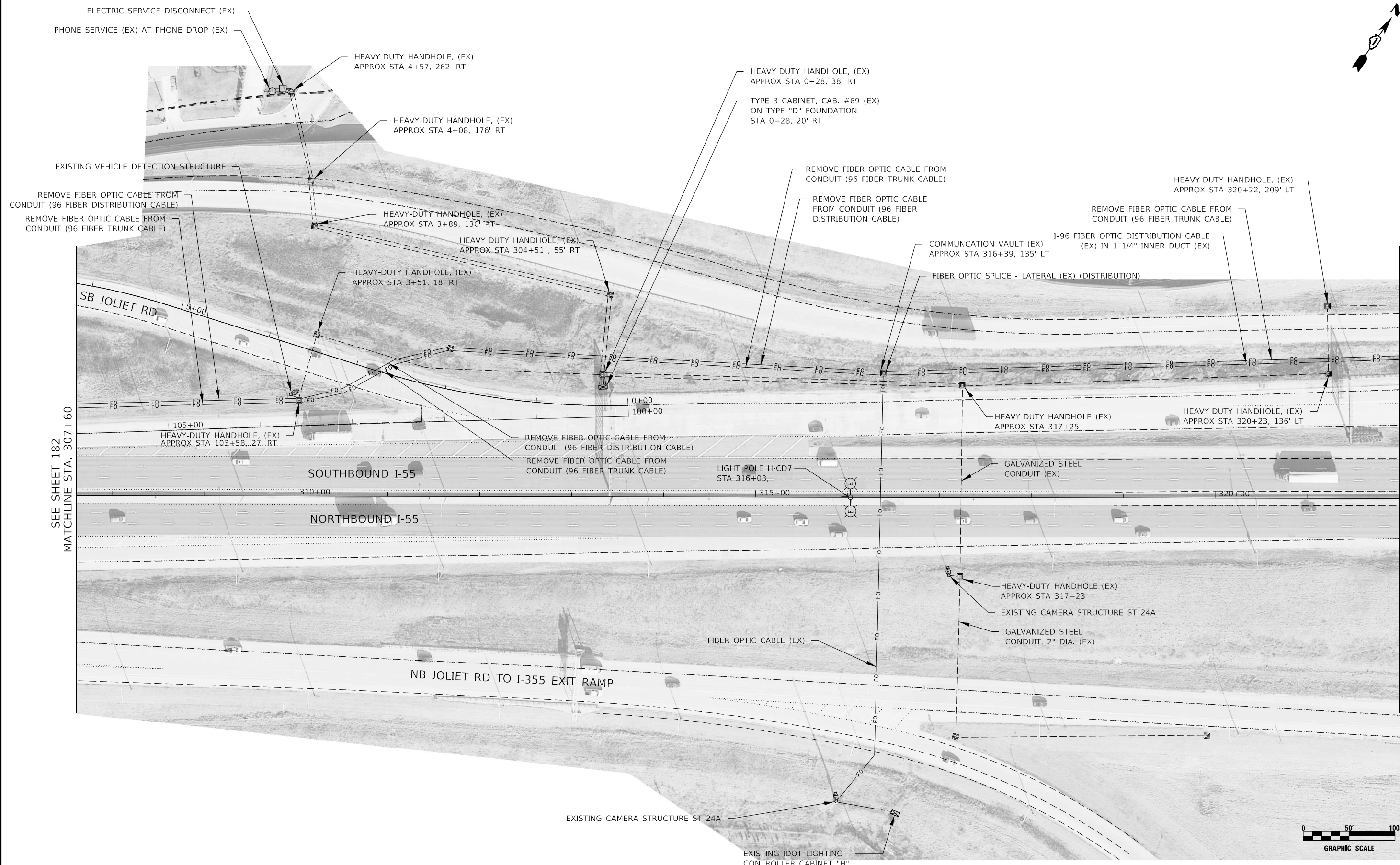
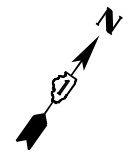
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER JOLIET ROAD

SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	182
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



SEE SHEET 182
MATCHLINE STA. 307+60

MATCHLINE STA. 322+00
SEE SHEET 184

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

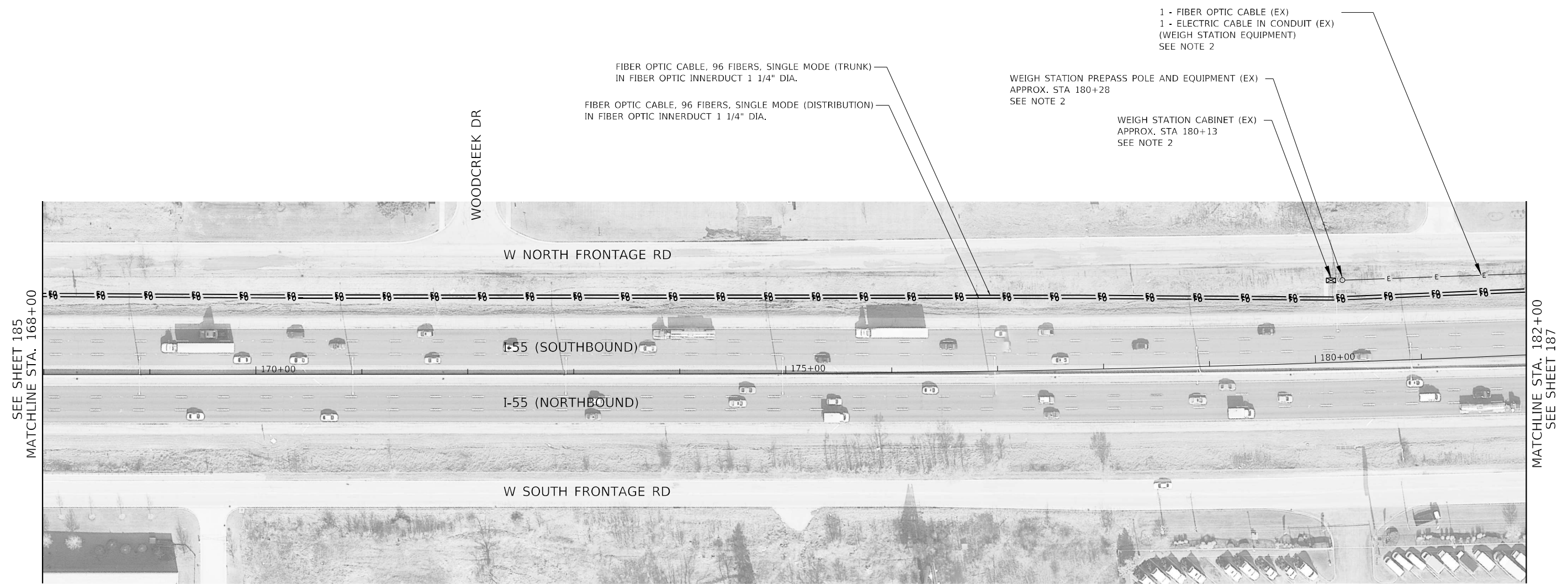
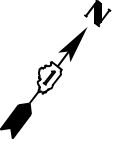
**I-55 OVER IL 53 BRIDGE REHABILITATION
TEMPORARY AND REMOVAL ITS AND SURVEILLANCE PLAN
I-55 OVER JOLIET ROAD**

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	183
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

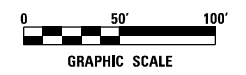
NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. CONTACT THE CENTRAL BUREAU OF OPERATIONS (217-299-0934) TO LOCATE PREPASS FACILITIES PRIOR TO CONSTRUCTION.



SEE SHEET 185
MATCHLINE STA. 168+00

MATCHLINE STA. 182+00
SEE SHEET 187



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

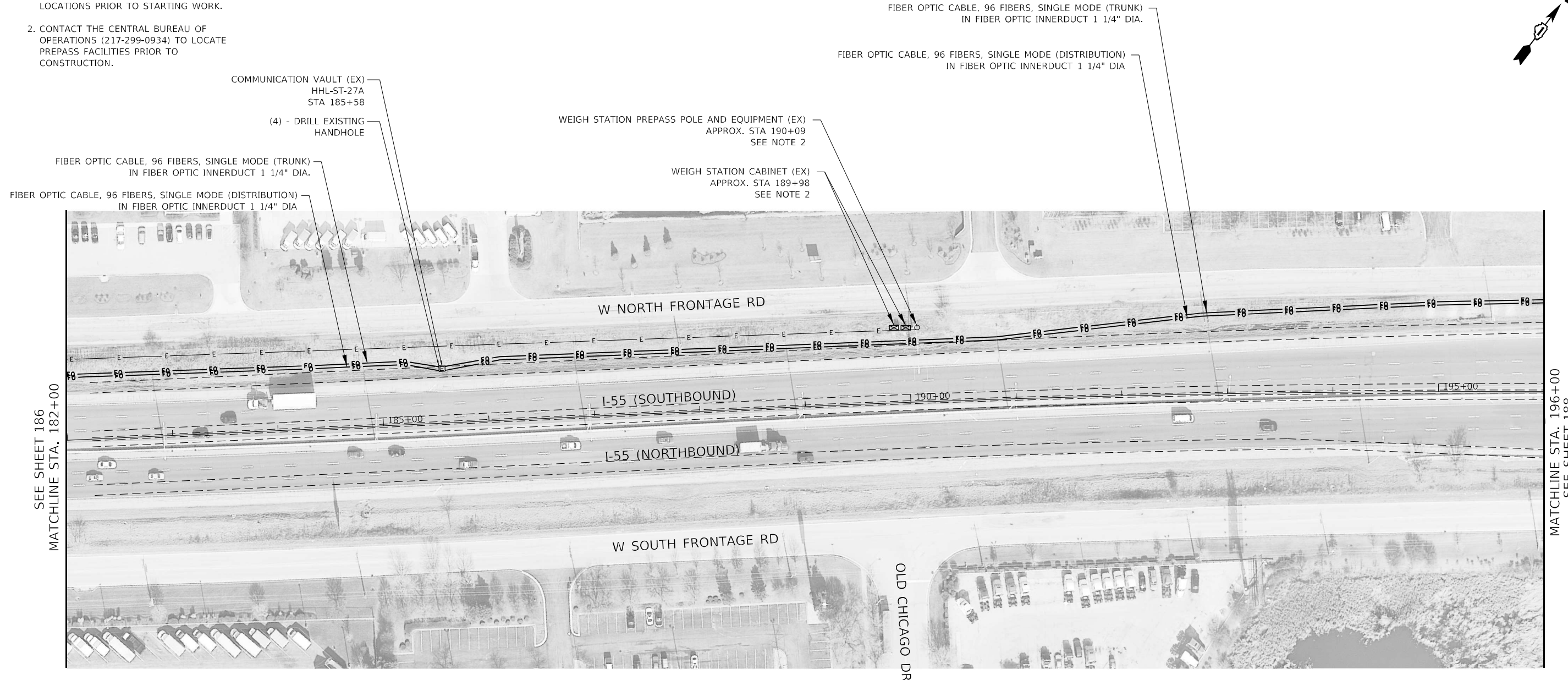
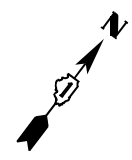
**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER IL 53**

SCALE: 1" = 50' SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	186
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

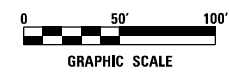
NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. CONTACT THE CENTRAL BUREAU OF OPERATIONS (217-299-0934) TO LOCATE PREPASS FACILITIES PRIOR TO CONSTRUCTION.



SEE SHEET 186
MATCHLINE STA. 182+00

MATCHLINE STA. 196+00
SEE SHEET 188



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

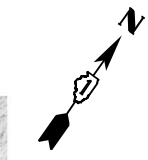
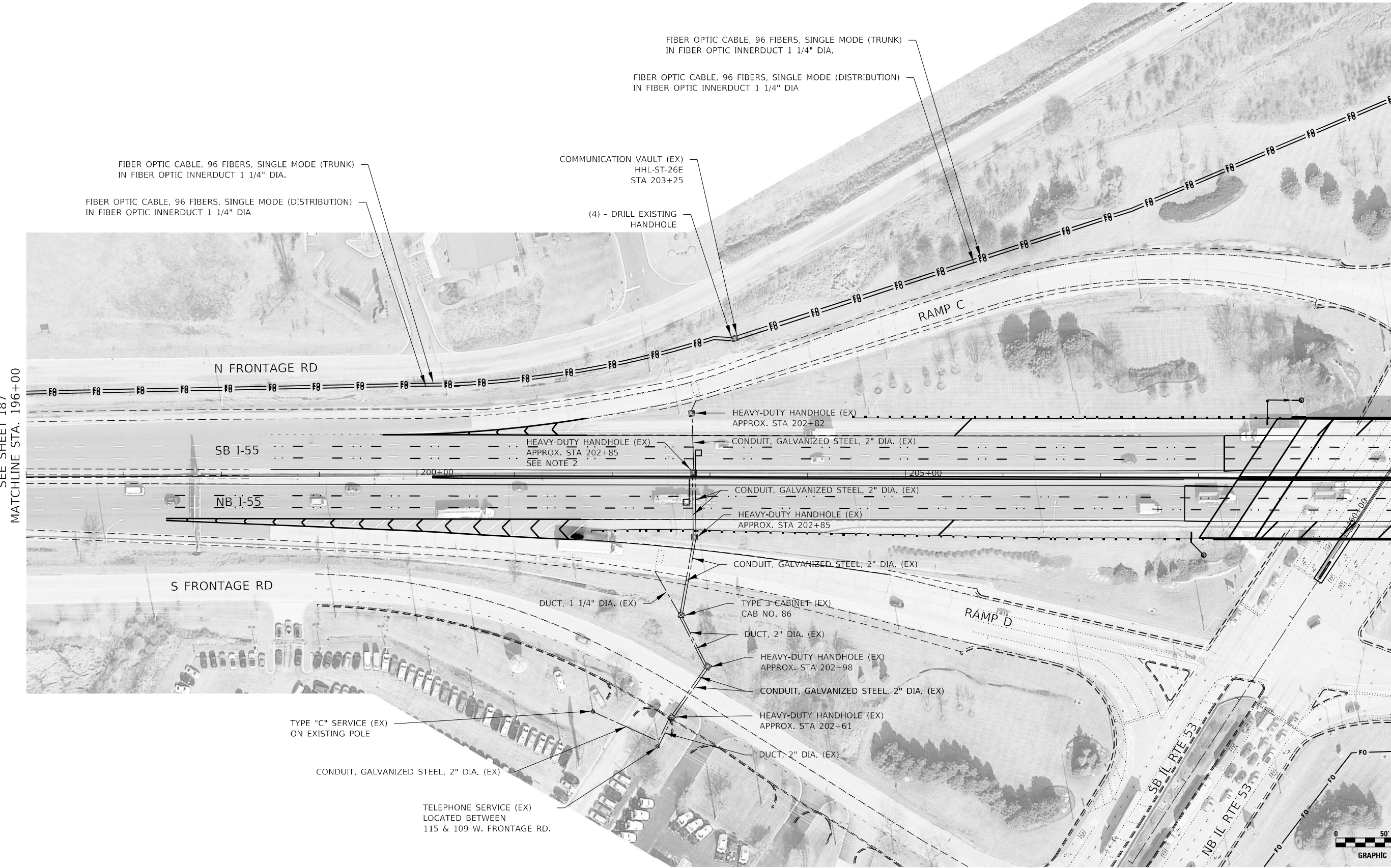
I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER IL 53

SCALE: 1" = 50' SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	187
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.



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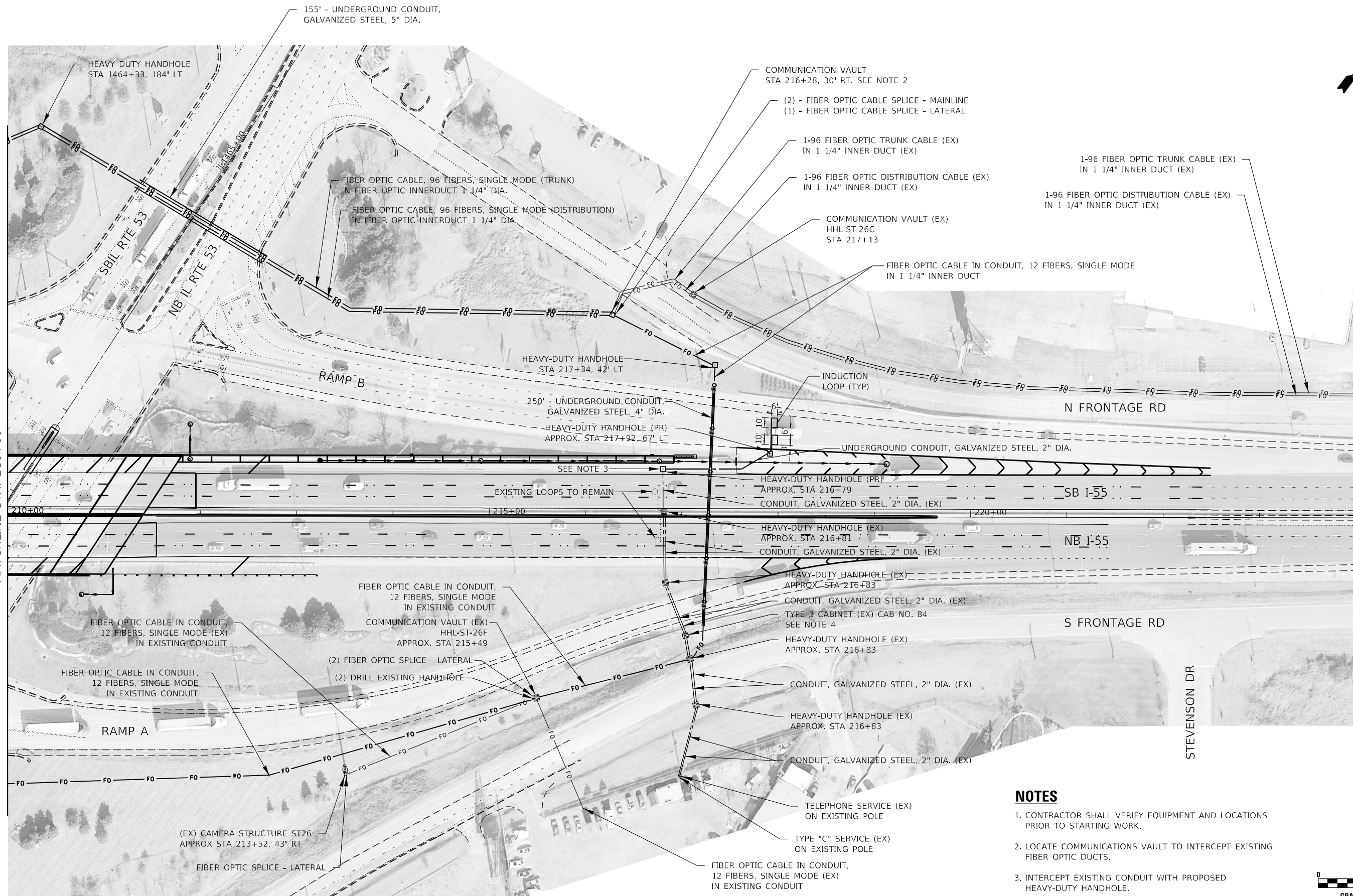
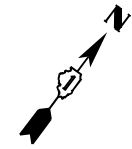
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
 PROPOSED ITS AND SURVEILLANCE PLAN
 I-55 OVER IL 53**

SCALE: 1" = 50' SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	188
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

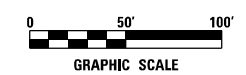


SEE SHEET 188
MATCHLINE STA. 210+00

MATCHLINE STA. 210+00
SEE SHEET 190

NOTES

1. CONTRACTOR SHALL VERIFY EQUIPMENT AND LOCATIONS PRIOR TO STARTING WORK.
2. LOCATE COMMUNICATIONS VAULT TO INTERCEPT EXISTING FIBER OPTIC DUCTS.
3. INTERCEPT EXISTING CONDUIT WITH PROPOSED HEAVY-DUTY HANDHOLE.
4. MODIFY EXISTING CABINET EQUIPMENT AND APPURTENANCES. SEE SPECIAL PROVISION.



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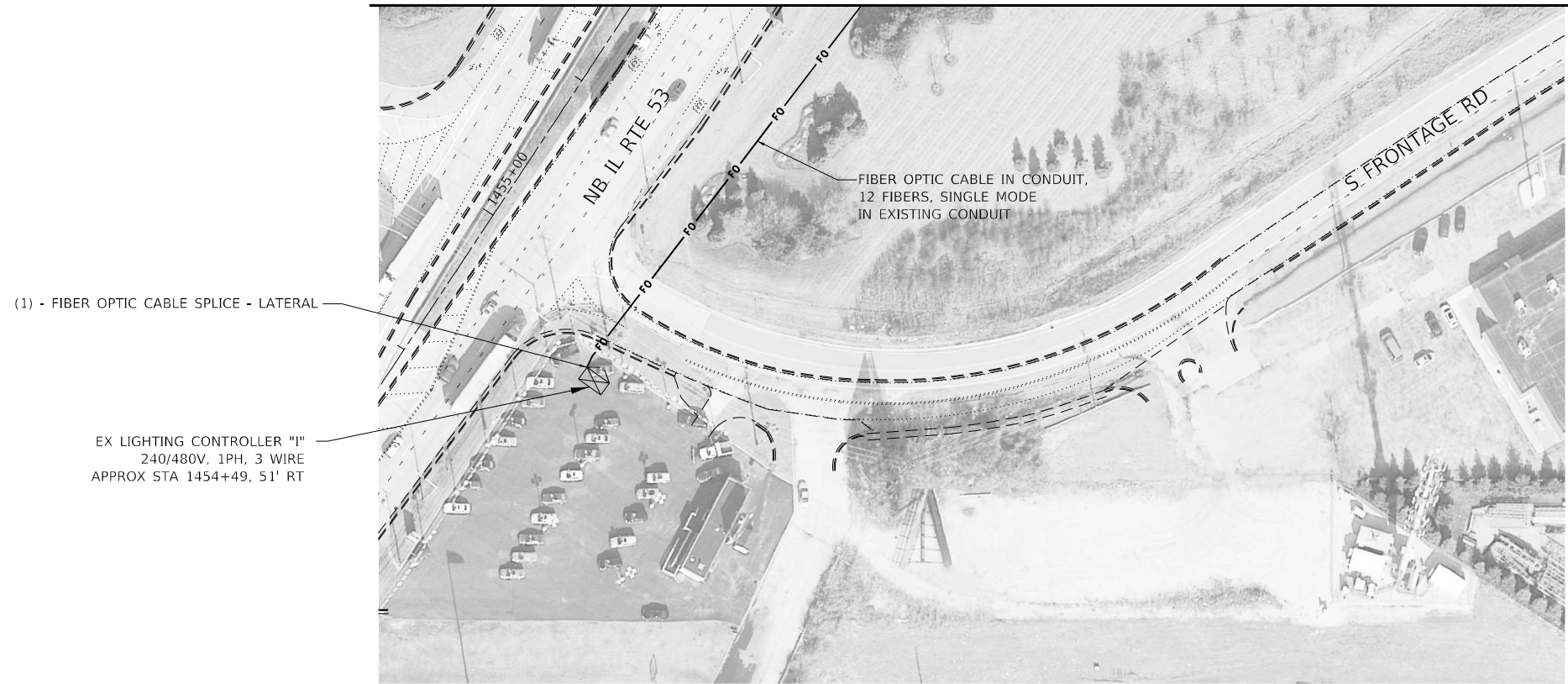
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	189
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

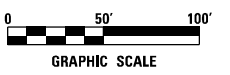
SEE SHEET 189
MATCHLINE STA. 210+00



(1) - FIBER OPTIC CABLE SPLICE - LATERAL

EX LIGHTING CONTROLLER "I"
240/480V, 1PH, 3 WIRE
APPROX STA 1454+49, 51' RT

FIBER OPTIC CABLE IN CONDUIT,
12 FIBERS, SINGLE MODE
IN EXISTING CONDUIT



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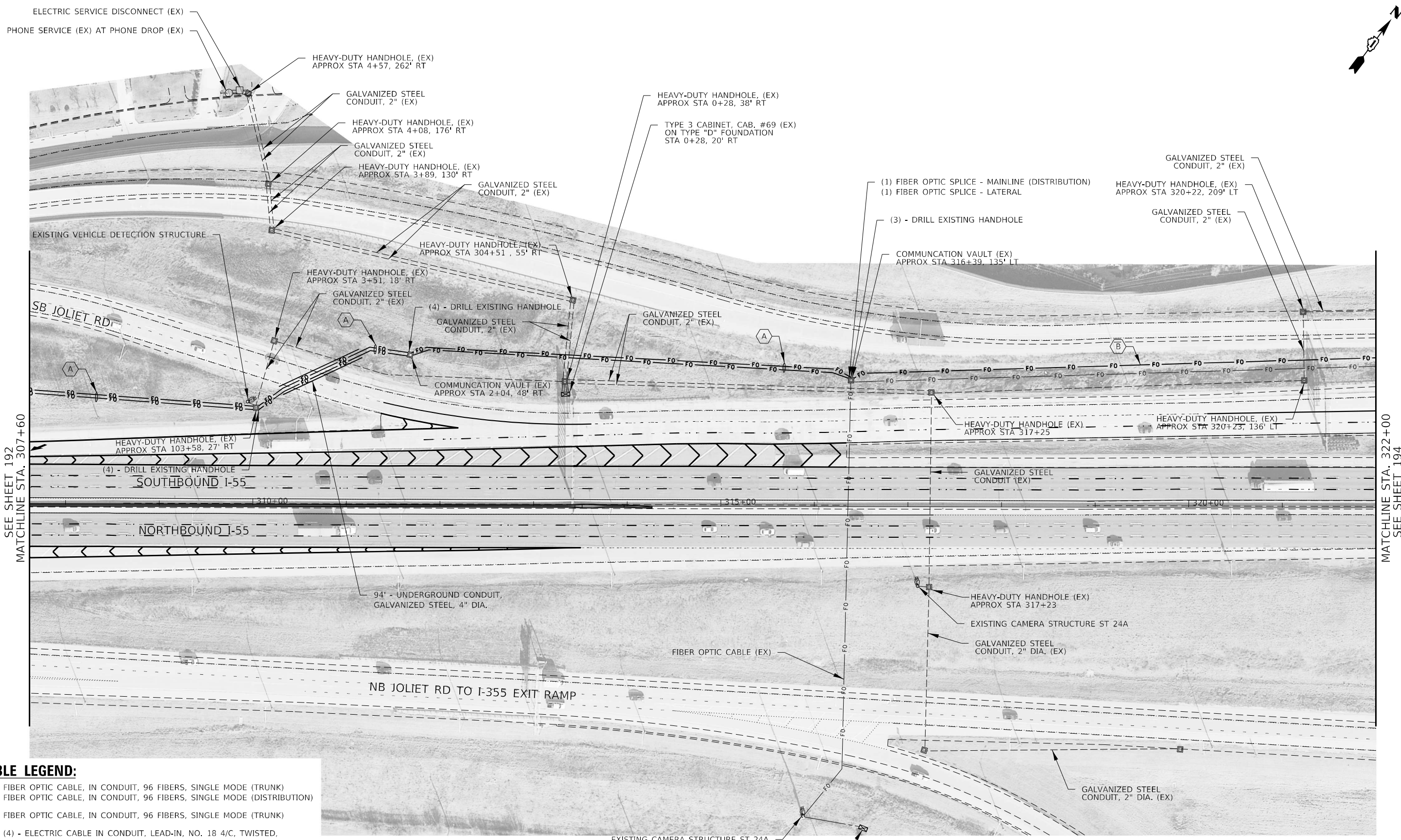
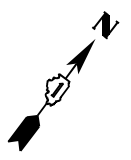
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER IL ROUTE 53**

SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	190
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

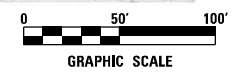


SEE SHEET 192
MATCHLINE STA. 307+60

MATCHLINE STA. 322+00
SEE SHEET 194

CABLE LEGEND:

A	FIBER OPTIC CABLE, IN CONDUIT, 96 FIBERS, SINGLE MODE (TRUNK)
B	FIBER OPTIC CABLE, IN CONDUIT, 96 FIBERS, SINGLE MODE (DISTRIBUTION)
C	(4) - ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED IN UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
D	(3) - ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED IN UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

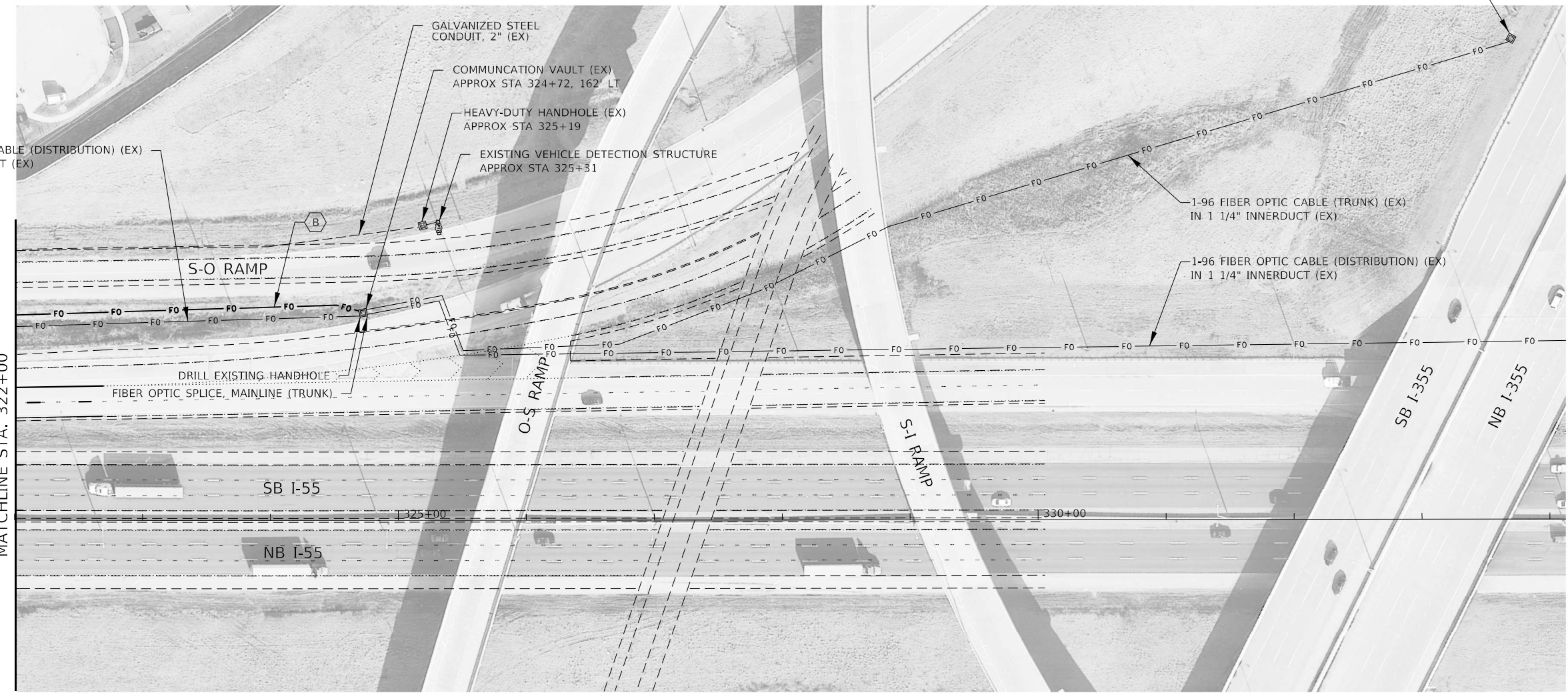
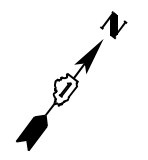
**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER JOLIET ROAD**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	193
CONTRACT NO. 62H03				

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

EXISTING ISTHA FIBER OPTIC HANDHOLE #7



1-96 FIBER OPTIC CABLE (DISTRIBUTION) (EX)
IN 1 1/4\"/>

GALVANIZED STEEL
CONDUIT, 2\"/>

COMMUNICATION VAULT (EX)
APPROX STA 324+72, 162' LT

HEAVY-DUTY HANDHOLE (EX)
APPROX STA 325+19

EXISTING VEHICLE DETECTION STRUCTURE
APPROX STA 325+31

1-96 FIBER OPTIC CABLE (TRUNK) (EX)
IN 1 1/4\"/>

1-96 FIBER OPTIC CABLE (DISTRIBUTION) (EX)
IN 1 1/4\"/>

SEE SHEET 193
MATCHLINE STA. 322+00

DRILL EXISTING HANDHOLE
FIBER OPTIC SPLICE, MAINLINE (TRUNK)

SB I-55

NB I-55

O-S RAMP

S-I RAMP

SB I-355

NB I-355

325+00

330+00

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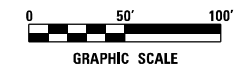


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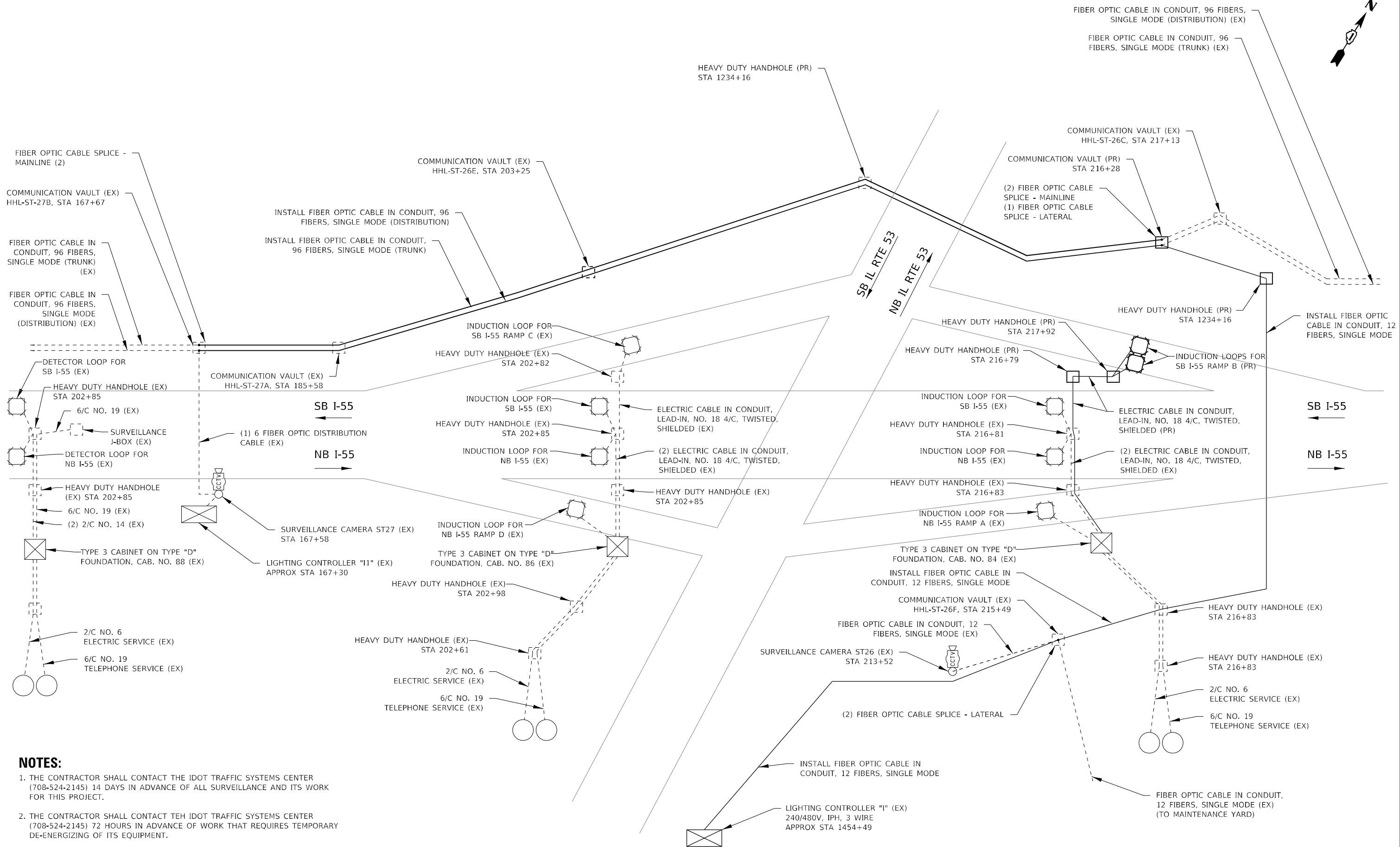
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-55 OVER IL 53 BRIDGE REHABILITATION
PROPOSED ITS AND SURVEILLANCE PLAN
I-55 OVER JOLIET ROAD**

SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	194
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 14 DAYS IN ADVANCE OF ALL SURVEILLANCE AND ITS WORK FOR THIS PROJECT.
2. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 72 HOURS IN ADVANCE OF WORK THAT REQUIRES TEMPORARY DE-ENERGIZING OF ITS EQUIPMENT.

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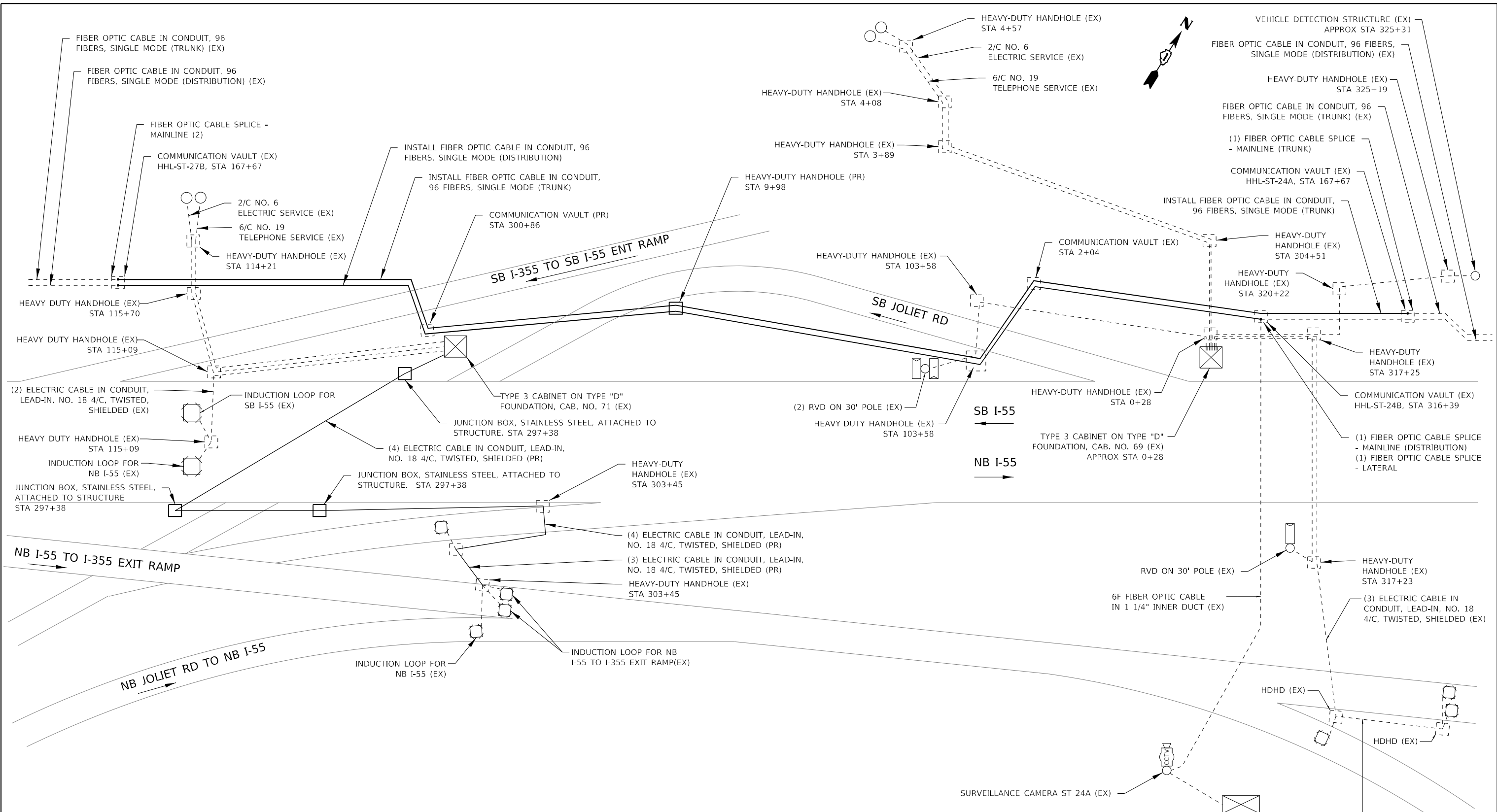
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-55 OVER IL 53 BRIDGE REHABILITATION
ITS AND SURVEILLANCE SINGLE LINE DIAGRAM
I-55 OVER ILLINOIS ROUTE 53

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	195
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 14 DAYS IN ADVANCE OF ALL SURVEILLANCE AND ITS WORK FOR THIS PROJECT.
2. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 72 HOURS IN ADVANCE OF WORK THAT REQUIRES TEMPORARY DE-ENERGIZING OF ITS EQUIPMENT.

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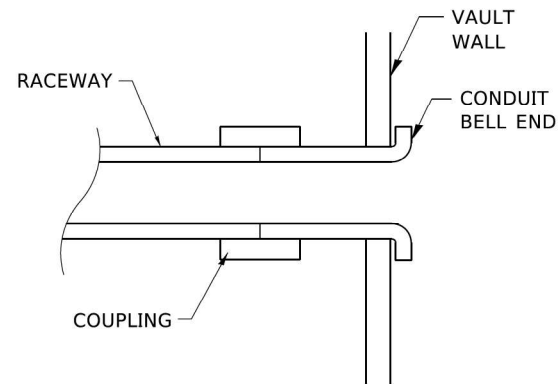
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

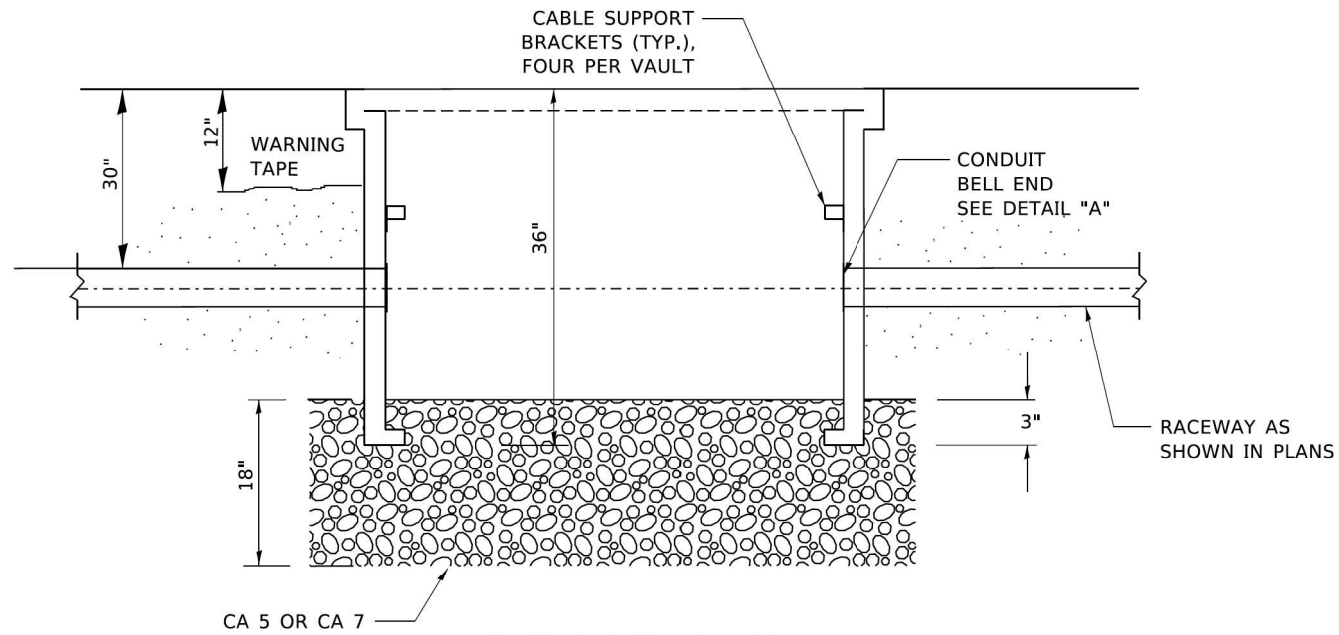
I-55 OVER IL 53 BRIDGE REHABILITATION ITS AND SURVEILLANCE SINGLE LINE DIAGRAM I-55 OVER ILLINOIS ROUTE 53	
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE. = 55	SECTION = 2018-043-BD&BJR	COUNTY = WILL	TOTAL SHEETS = 430	SHEET NO. = 196
CONTRACT NO. 62H03			ILLINOIS FED. AID PROJECT	

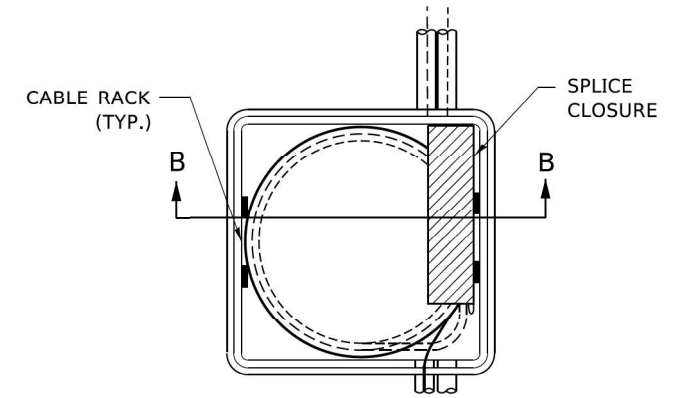
COMMUNICATIONS VAULT LOAD RATINGS			
COMPONENT	ANSI TIER	LOADING	
		DESIGN	TEST
BOX	22	22,500 lbs.	37,750 lbs.
COVER	22	22,500 lbs.	37,750 lbs.



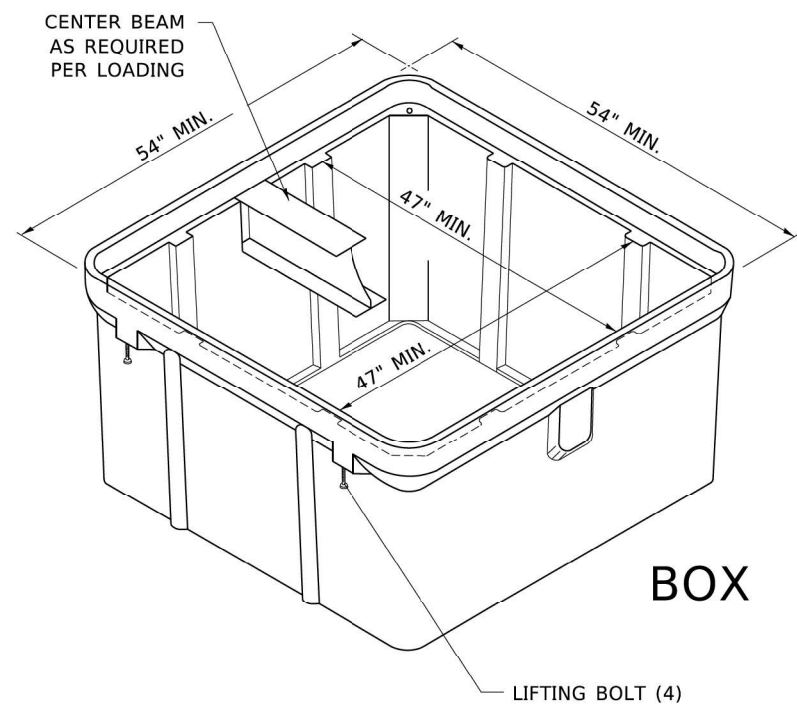
DETAIL A



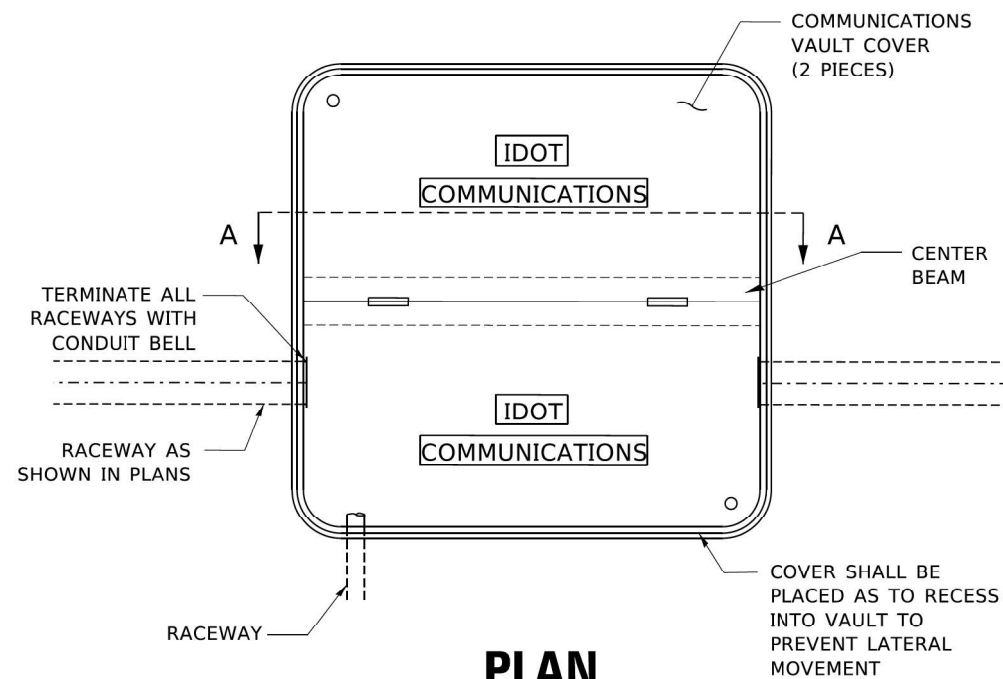
SECTION A-A



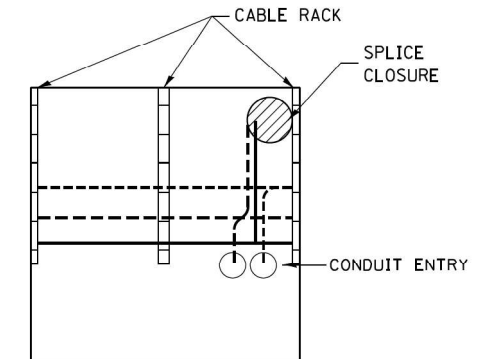
TOP VIEW



ISOMETRIC



PLAN



SECTION B-B

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

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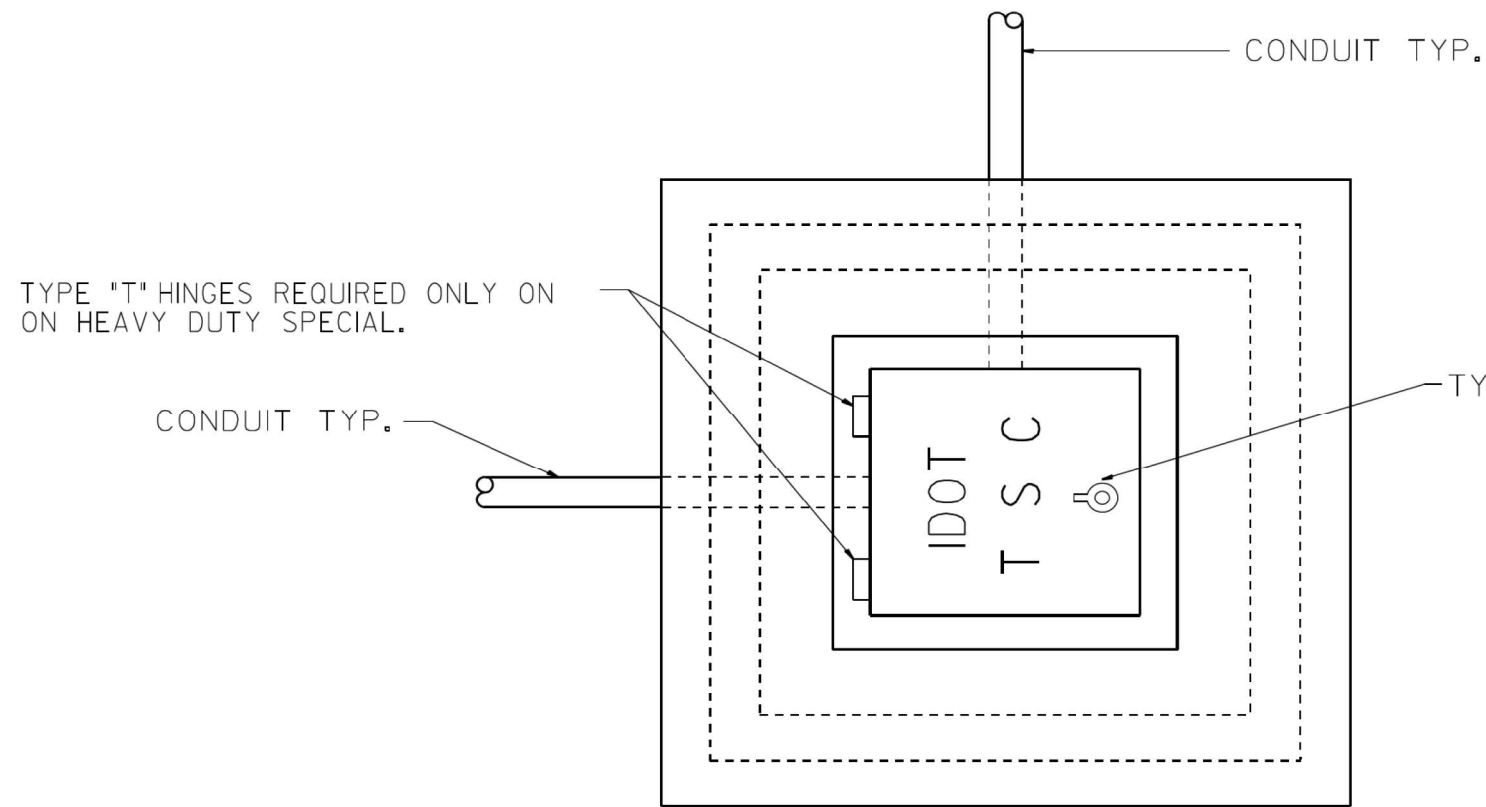
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATIONS VAULT, COMPOSITE CONCRETE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2018-043-BD&BJR	WILL	430	197
BE-705			CONTRACT NO. 62H03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

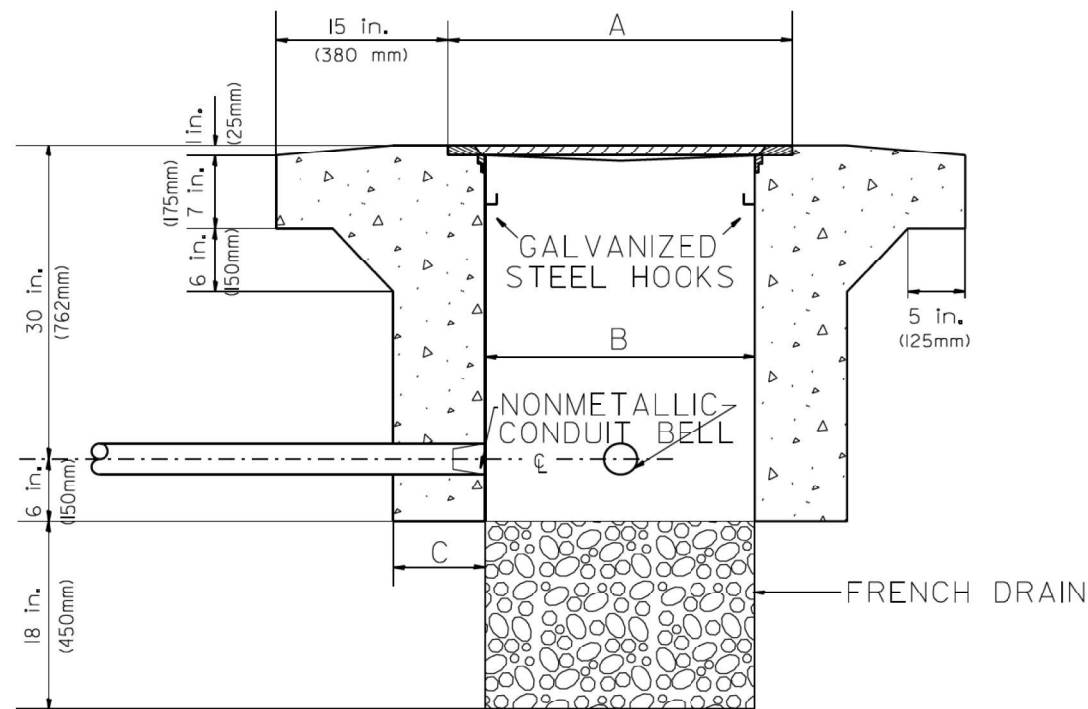


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

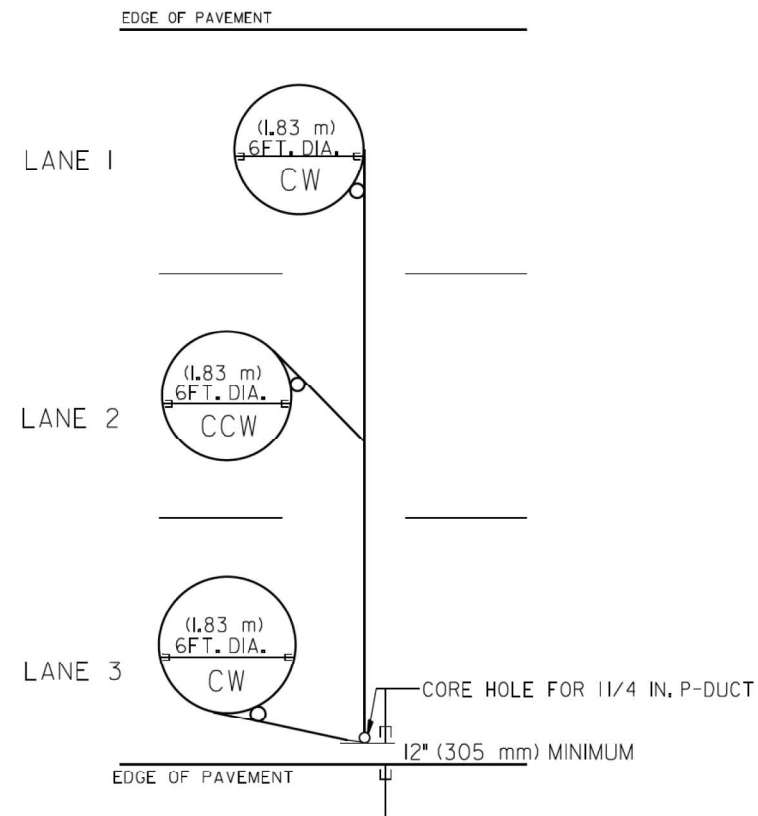
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

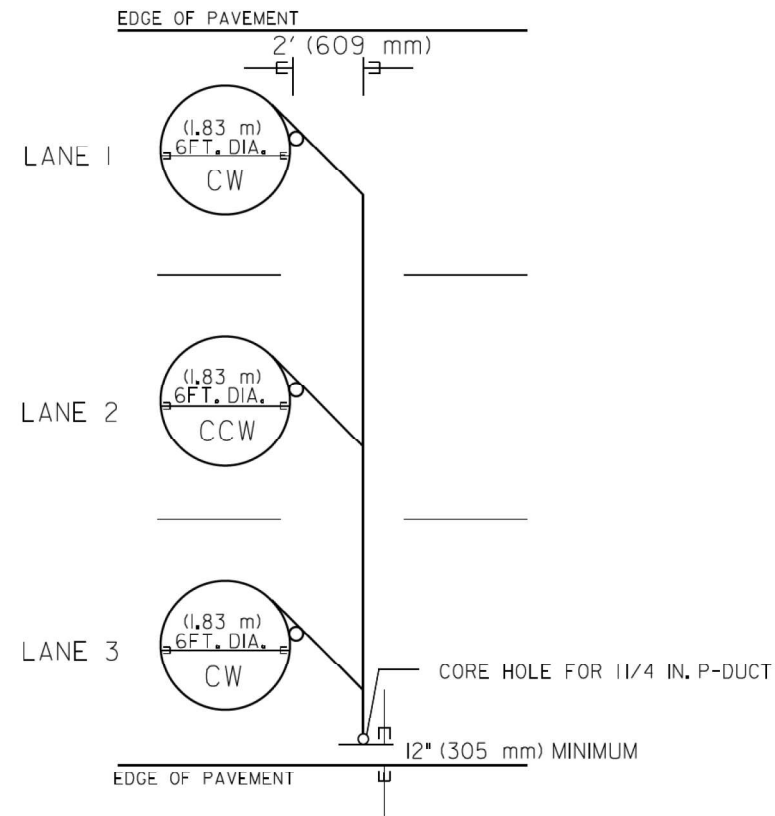
PC CONCRETE - HEAVY DUTY HAND HOLE

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 04/97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PC CONCRETE - HEAVY DUTY HAND HOLE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - G.M.	REVISED -		55	2018-043-BD&BJR	WILL	430	198		
#MODELNAME#		CHECKED - R.L.	REVISED -		CONTRACT NO. 62H03		ILLINOIS FED. AID PROJECT				
		DATE - 09/11/96	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.			



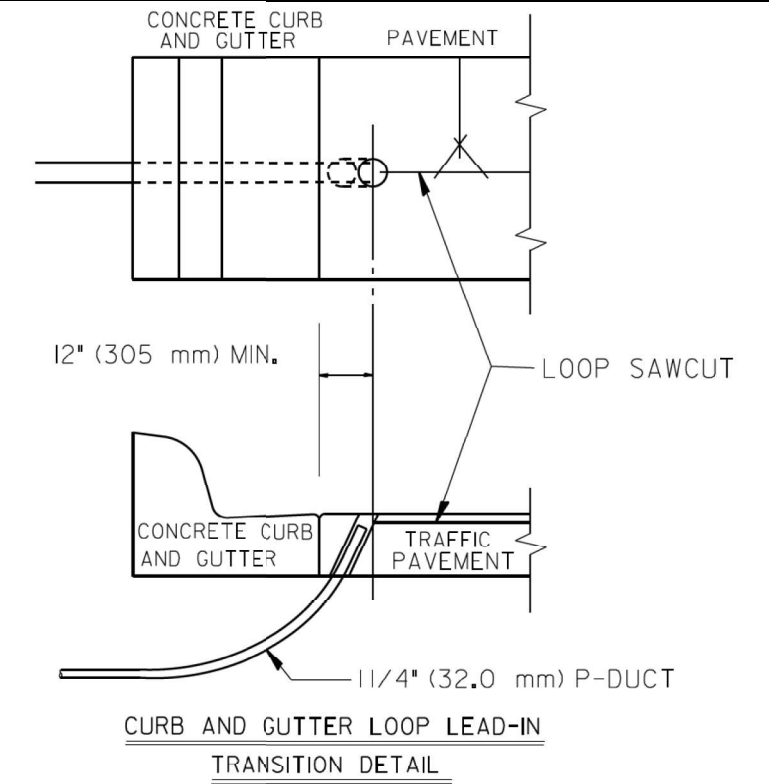
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

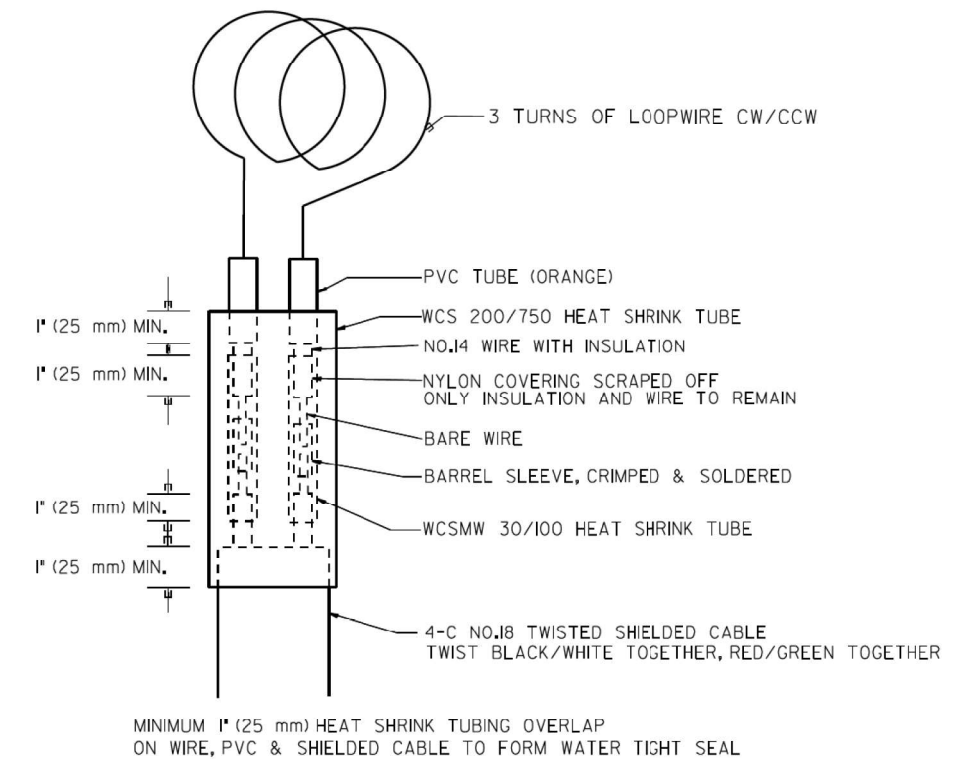
LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN
TRANSITION DETAIL

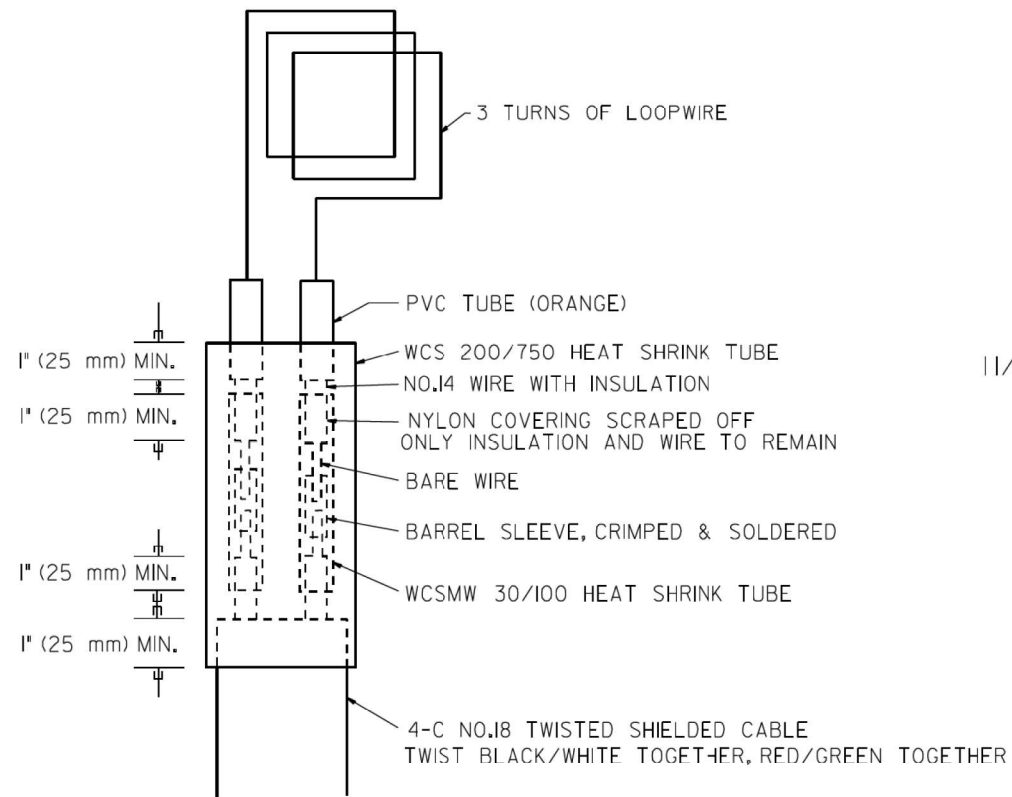
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



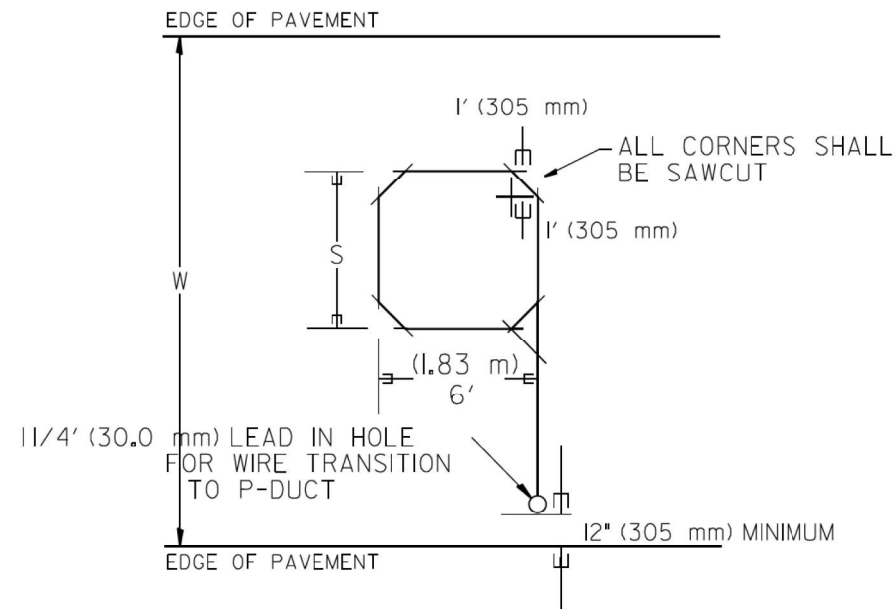
LOOP SPLICING REQUIREMENTS

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	EXISTING ROUND INDUCTION LOOP TYPICALS		F.A. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 199
#FILEL#		DRAWN - G.W.	REVISED - 10/96		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62H03		FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
#MODELNAME#		CHECKED - R.L.	REVISED - R.L. 03/2011								
		DATE - 6-22-94	REVISED -								

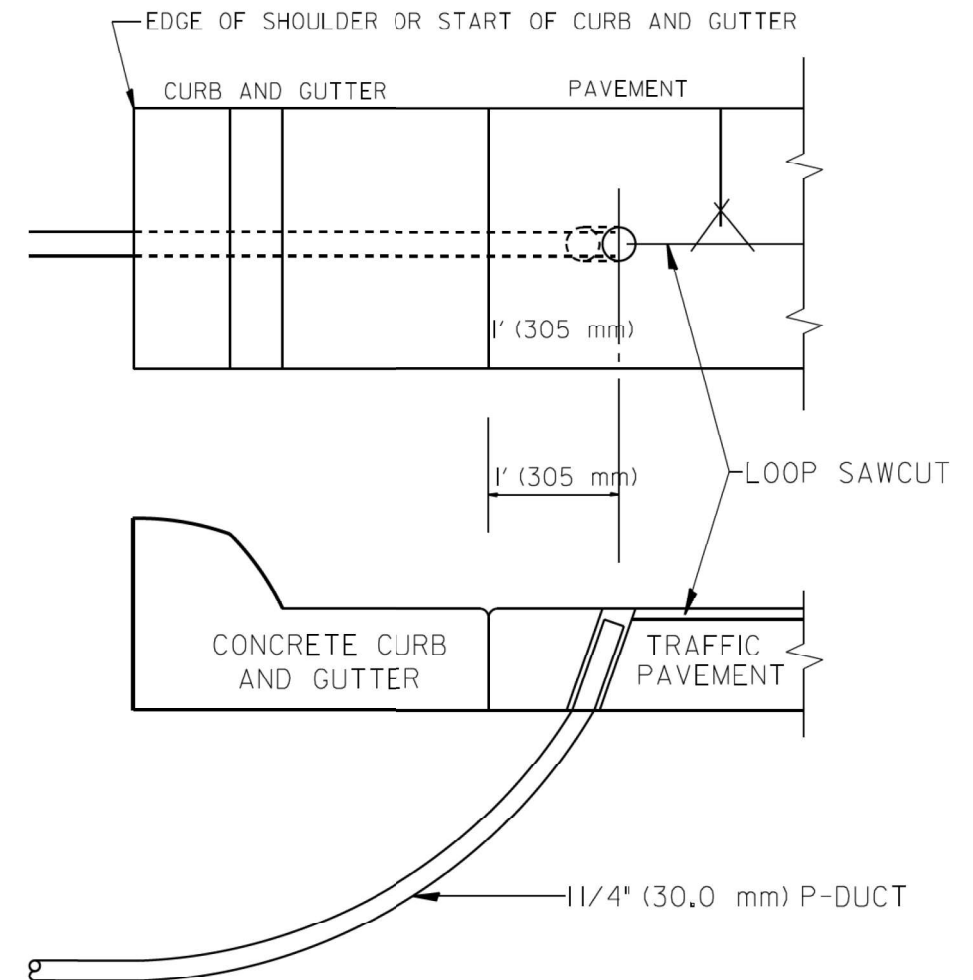


LOOP SPLICING REQUIREMENTS

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMP



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	RECTANGULAR INDUCTION LOOP TYPICAL			F.A. RTE. 55	SECTION 2018-043-BD&BJR	COUNTY WILL	TOTAL SHEETS 430	SHEET NO. 200
#FILE#		DRAWN - G.M.	REVISED - 11/95		SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.	CONTRACT NO. 62H03			
#MODELNAME#		CHECKED - R.L.	REVISED - 05/96						ILLINOIS FED. AID PROJECT			
		DATE - 6-22-94	REVISED - 10/96									