

CHECKED -REVISED LOT DATE = 6/29/2023 REVISED 6/29/2023

DEPARTMENT OF TRANSPORTATION

480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION

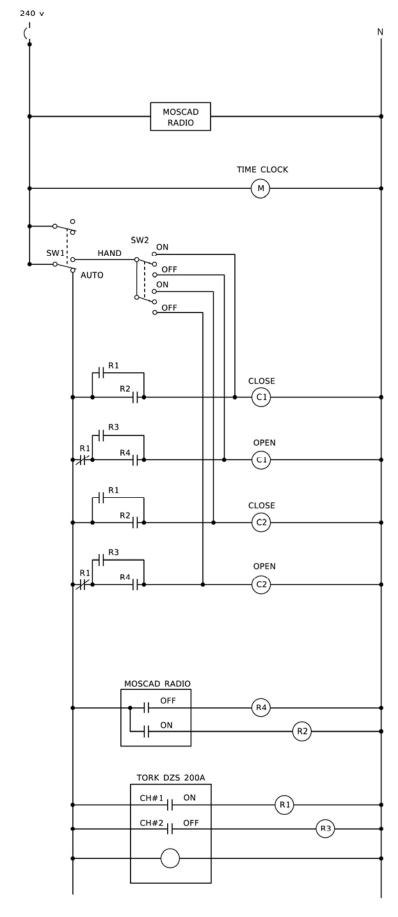
FAI 80 21 STRUCTURE 8 WILL CONTRACT NO. 62R29

<u>NOTES</u>

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14. FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- 5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- 10. ALL DEVICES SHALL BE FRONT REMOVABLE.
- 11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- 13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- 14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- 15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- 16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- 17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- 18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED Y = YELLOW
B = BLACK W = WHITE
BL = BLUE G = GREEN
G = GREY

- 19. MOSCAD I/O WIRING SHALL BE: DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE. ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED. AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING
- 20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- 22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



TERM MOSCAD DESTINATION DESCRIPTION OF INPU 1 DIGITAL INPUT 1 ALARM KNOWLEDGE 2 DIGITAL INPUT 2 DOOR OPEN 3 DIGITAL INPUT 3 MAIN(S) BREAKER OPEN 4 DIGITAL INPUT 4 CONTACTOR 1 OPEN 5 DIGITAL INPUT 5 CONTACTOR 2 OPEN 6 DIGITAL INPUT 6 CABINET IN NON-AUTO 7 DIGITAL INPUT 7 BACK-UP CLOCK OF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 34 ANALOG INPUT 2 (+) CABINET SERVICE VOLTAGE		MOSCAD I/O ASSIGNMENTS							
2 DIGITAL INPUT 2 DOOR OPEN 3 DIGITAL INPUT 3 MAIN(S) BREAKER OPEN 4 DIGITAL INPUT 4 CONTACTOR 1 OPEN 5 DIGITAL INPUT 5 CONTACTOR 2 OPEN 6 DIGITAL INPUT 6 CABINET IN NON-AUTO 7 DIGITAL INPUT 7 BACK-UP CLOCK OFF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT						
3	1	DIGITAL INPUT 1	ALARM KNOWLEDGE						
4 DIGITAL INPUT 4 CONTACTOR 1 OPEN 5 DIGITAL INPUT 5 CONTACTOR 2 OPEN 6 DIGITAL INPUT 6 CABINET IN NON-AUTO 7 DIGITAL INPUT 7 BACK-UP CLOCK OFF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	2	DIGITAL INPUT 2	DOOR OPEN						
5 DIGITAL INPUT 5 CONTACTOR 2 OPEN 6 DIGITAL INPUT 6 CABINET IN NON-AUTO 7 DIGITAL INPUT 7 BACK-UP CLOCK OFF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN						
6 DIGITAL INPUT 6 CABINET IN NON-AUTO 7 DIGITAL INPUT 7 BACK-UP CLOCK OFF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	4	DIGITAL INPUT 4	CONTACTOR 1 OPEN						
7 DIGITAL INPUT 7 BACK-UP CLOCK OFF CALL 8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	5	DIGITAL INPUT 5	CONTACTOR 2 OPEN						
8 DIGITAL INPUT 8 BACK-UP CLOCK ON CALL 17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	6	DIGITAL INPUT 6	CABINET IN NON-AUTO						
17 24 V+ 24+VDC 18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL						
18 DI COMMON COMMON 21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL						
21 K1 C K1 COMMON 22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	17	24 V+	24+VDC						
22 K1 NO LIGHTS ON CALL 24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	18	DI COMMON	COMMON						
24 K2 C K2 COMMON 25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	21	K1 C	K1 COMMON						
25 K2 NO LIGHTS OFF CALL 32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	22	K1 NO	LIGHTS ON CALL						
32 ANALOG INPUT 1 (+) CABINET NEUTRAL CURRENT 33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	24	K2 C	K2 COMMON						
33 ANALOG INPUT 1 (-) CABINET NEUTRAL CURRENT	25	K2 NO	LIGHTS OFF CALL						
	32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT						
34 ANALOG INPUT 2 (+) CABINET SERVICE VOLTAGE	33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT						
	34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE						
35 ANALOG INPUT 2 (-) CABINET SERVICE VOLTAGE	35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE						
40 P. GROUND GROUND	40	P. GROUND	GROUND						

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

CONTROL CIRCUIT LADDER LOGIC DIAGRAM



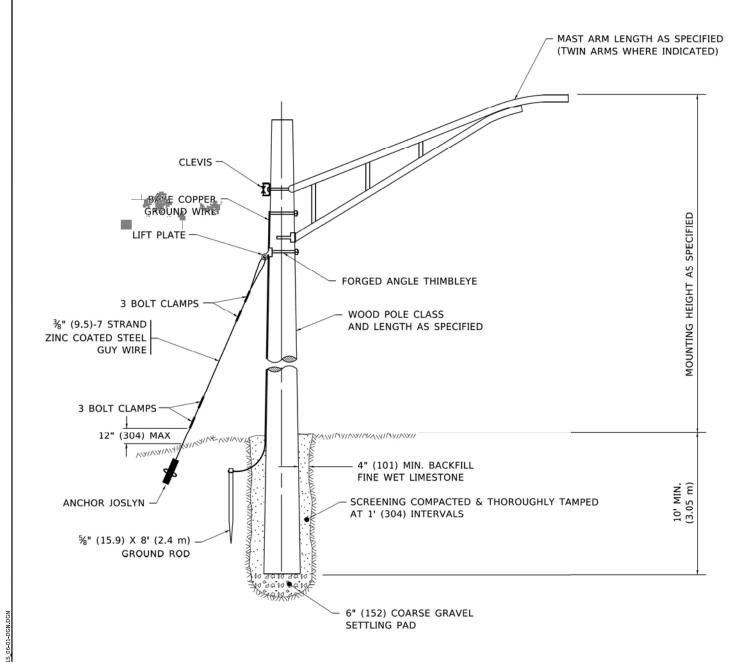
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	DRAWN	-	AJS	REVISED -
PLOT SCALE = 0.166666 / IN.	CHECKED	-	MCD	REVISED -
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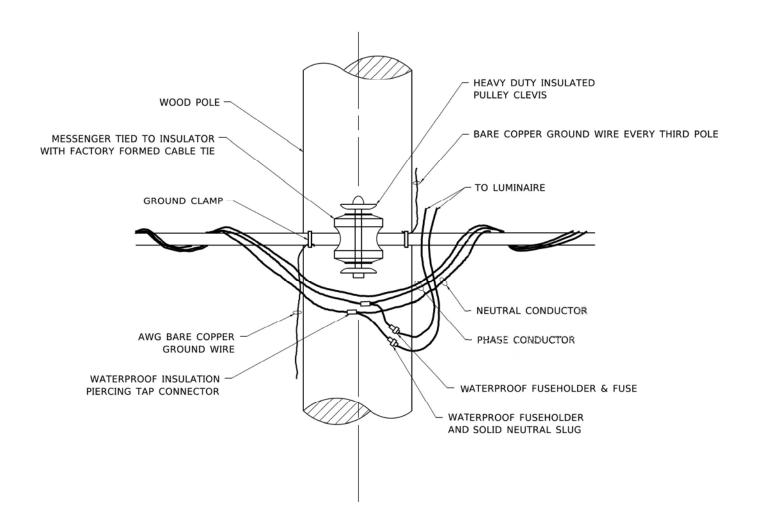
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED

480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

ALE: SHEET OF SHEETS STA. TO STA.





TEMPORARY LIGHT POLE DETAIL

TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

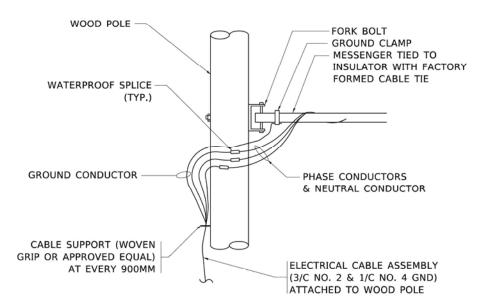
- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

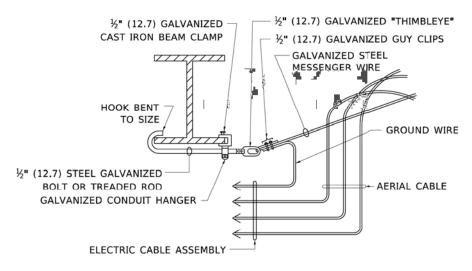
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS					F.A.I. RTE.			COUNTY	TOTAL SHEETS	SHEE NO.	
I-80 - RAMP				80	FAI 80 21 STRUCTURE 8		WILL	883	503		
					BE-800			CONTRACT	NO. 621	R29	
HEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT		

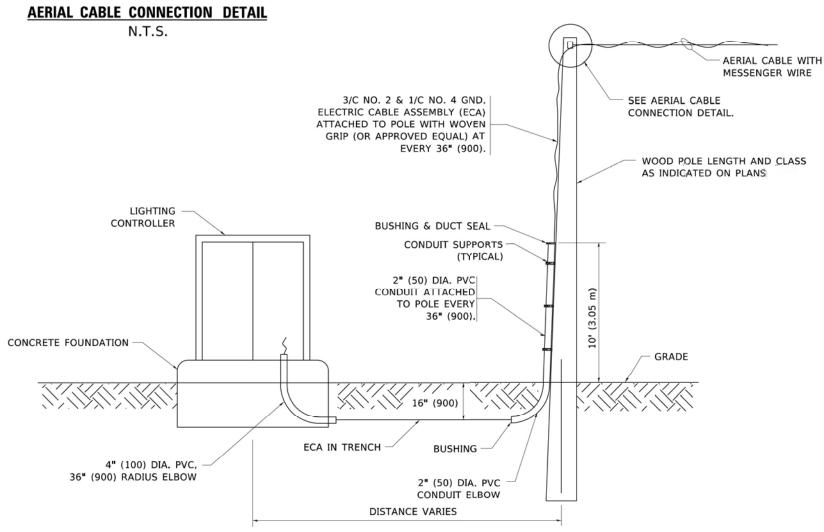
AODEL: 2D SHEET H





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 AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

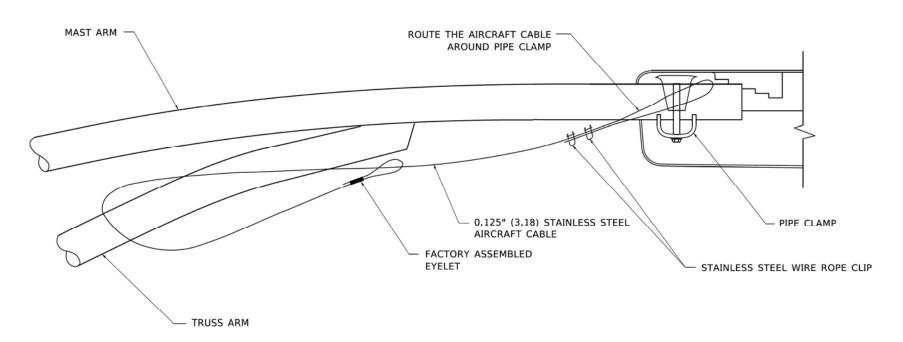
WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

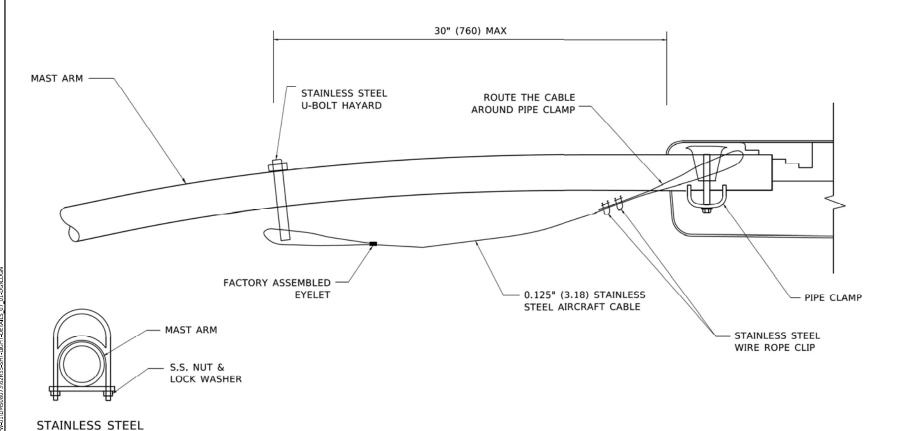
HNTB

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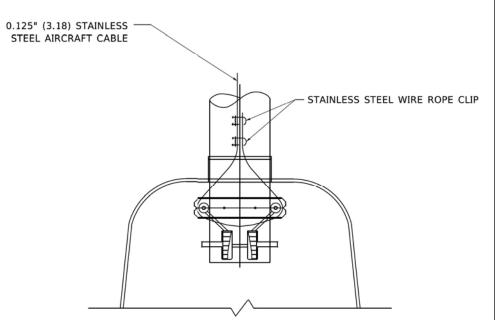
TEMPORARY AERIAL CABLE INSTALLATION					F.A.I. RTE.			COUNTY	TOTAL SHEETS	SHEE NO.
I-80 - RAMP				80	FAI 80 21 STRUCTUR	WILL	883	504		
I-OU - NAIVIF						BE-801		CONTRACT	NO. 62	R29
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	D PROJECT		



SIDE VIEW (TRUSS ARM) N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM) N.T.S.



BOTTOM VIEW N.T.S.

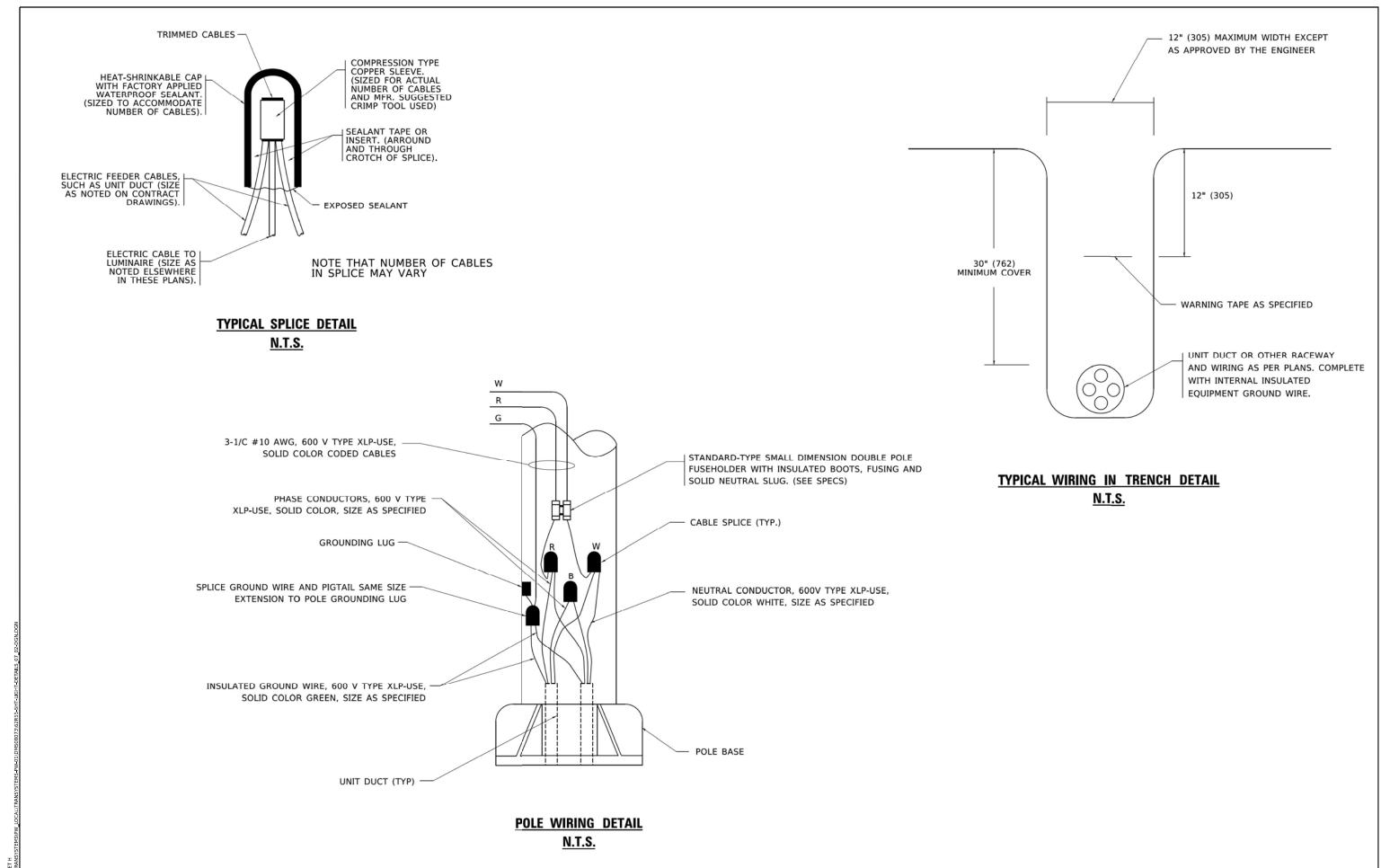
NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

U-BOLT HAYARD

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LUMINAIRE SAFETY CABLE ASSEMBLY				F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
					80	FAI 80 21 STRUCTUF	RE 8	WILL	883	505
						BE-701		CONTRACT	NO. 62	R29
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	D PROJECT		



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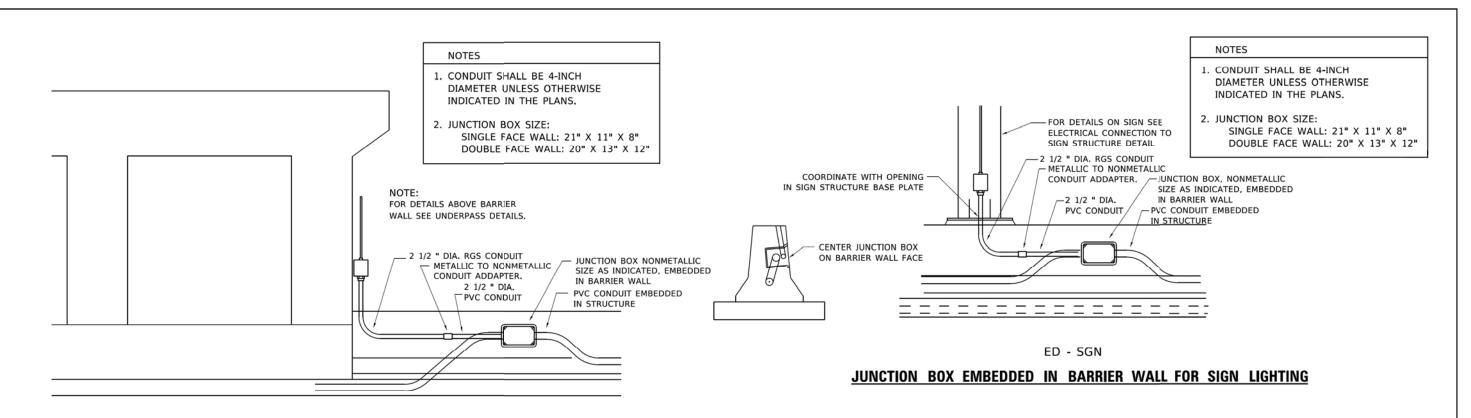
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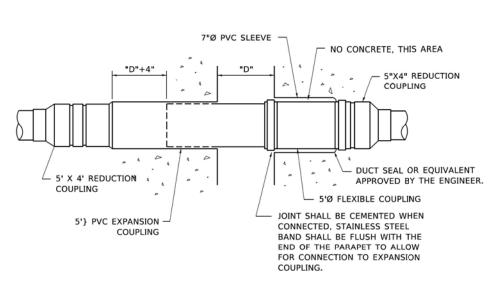
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:



ED - BWD

ELECTRIC CONNECTION TO UNDERPASS LIGHTING



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT

(N.T.S.)

PVC CONDUIT ENCASED IN
REINFORCED CONCRETE DUCT
BANK 2 WIDE X 1 HIGH MIN.
DEPTH BELOW GRADE 32"

PVC CONDUIT EMBEDDED

PVC CONDUIT EMBEDDED

IN STRUCTURE

PVC 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"

JUNCTION BOX EMBEDDED IN BARRIER WALL

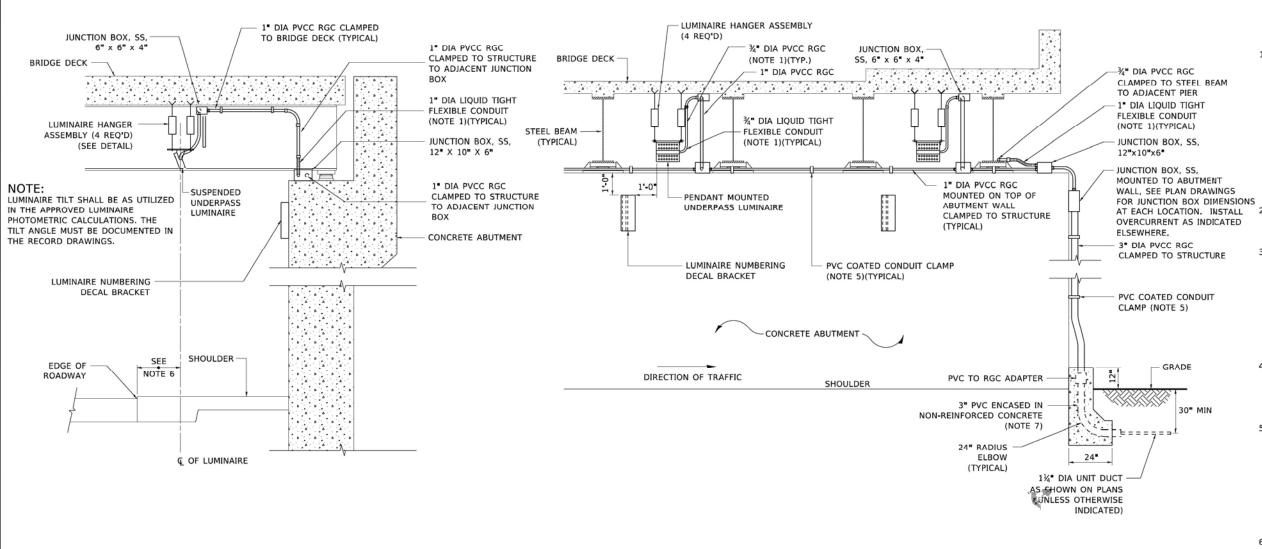
ED - BW

HNTB

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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

MISC. ELECTRICAL DETAILS CONT.						F.A.I. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
					80	FAI 80 21 ST	FRUCTUF	E 8	WILL	883	507
						BE-703			CONTRACT	NO. 62	R29
SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT		



- 1. 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.
- 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- 3. 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.
- 4. 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.
- 6. 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
- 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
- 9. 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).

HEXAGON HEAD -EXISTING BRIDGE DECK NEW BRIDGE DECK BOLT 1/4" DIA (3-REQUIRED) ANCHOR AS APPROVED SINGLE COIL, FLARED STAINLESS STEEL STUD BOLT EXPANSION ANCHOR,-HEAVY DUTY AS APPROVED BY THE ENGINEER BY ENGINEER LOOP INSERTS CAST ½ DIA THREADED BOTH ENDS IN DECK FOR 1/2" LENGTH AS REQUIRED (TYPICAL) ALUMINUM BUSHING STUD BOLTS (NOTE 4) NUT, LOCK WASHER & FLAT WASHER (SS) NUT. LOCK WASHER & ½" LONG NEOPRENE CUSHION NEOPRENE CUSHION-FLAT WASHER (SS) LOCKNUT, FLAT WASHER, NEOPRENE WASHER & CUPPED WASHER (SS) ALUMINUM BRACKET LOCKNUT, FLAT WASHER, -FLAT WASHER & LOCKNUT (SS) FLAT WASHER & LOCKNUT (SS) NEOPRENE WASHER & VIBRATION DAMPER ASSEMBLY CUPPED WASHER (SS) VIBRATION DAMPER ASSEMBLY -STEEL SPRING NUT, LOCK WASHER -STEEL SPRING NUT, LOCK WASHER — & FLAT WASHER (SS) 2" L 1 (TYPICAL) - LUMINAIRE MOUNTING PLATE & FLAT WASHER (SS) -- LUMINAIRE MOUNTING PLATE **EXISTING BRIDGE DECK INSTALLATION** NEW BRIDGE DECK INSTALLATION **ELEVATION** TOP VIEW

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

LUMINAIRE NUMBERING DECAL BRACKET

SCALE:

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP NOT TO SCALE

PVC COATED CONDUIT CLAMP

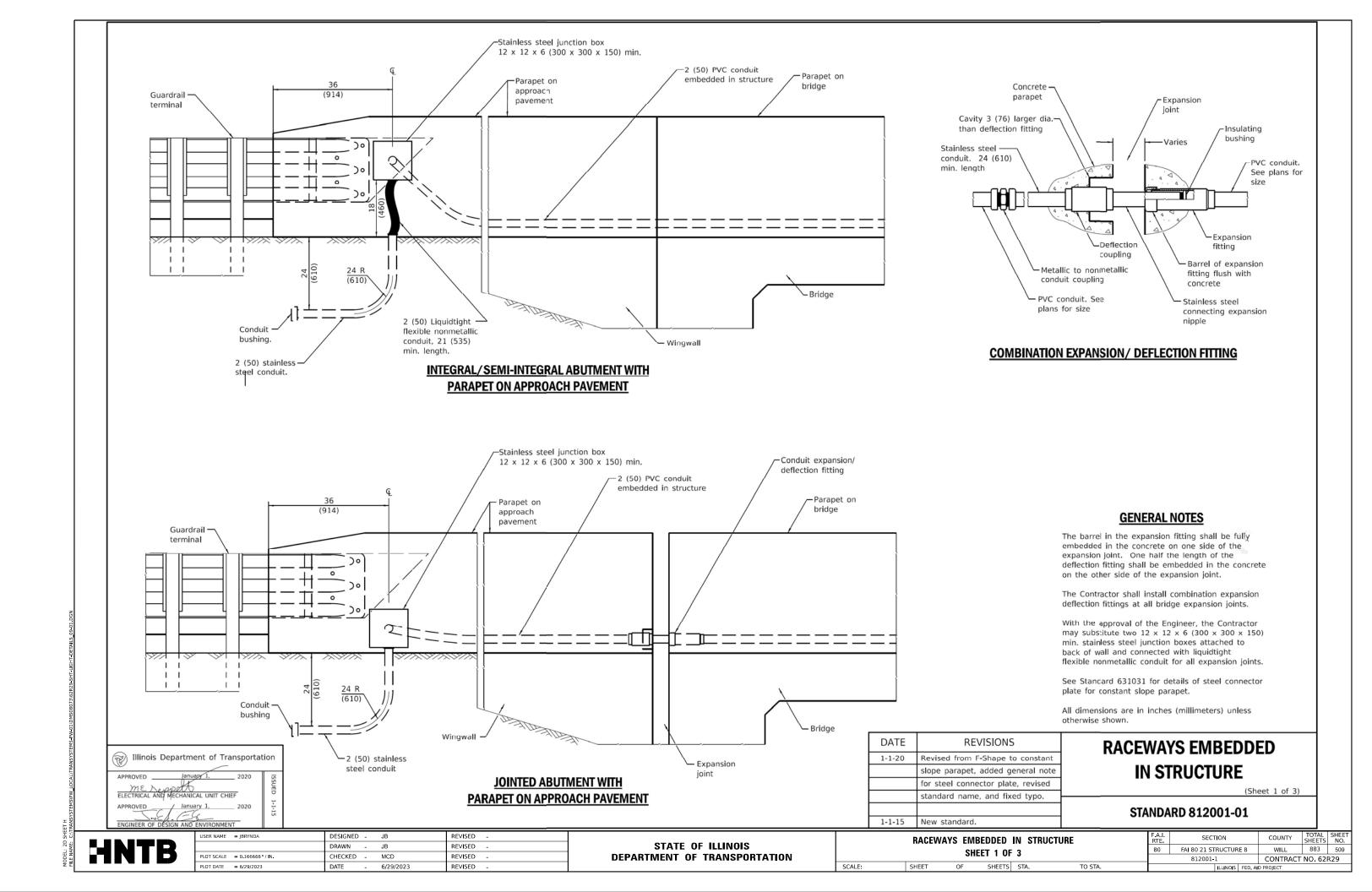
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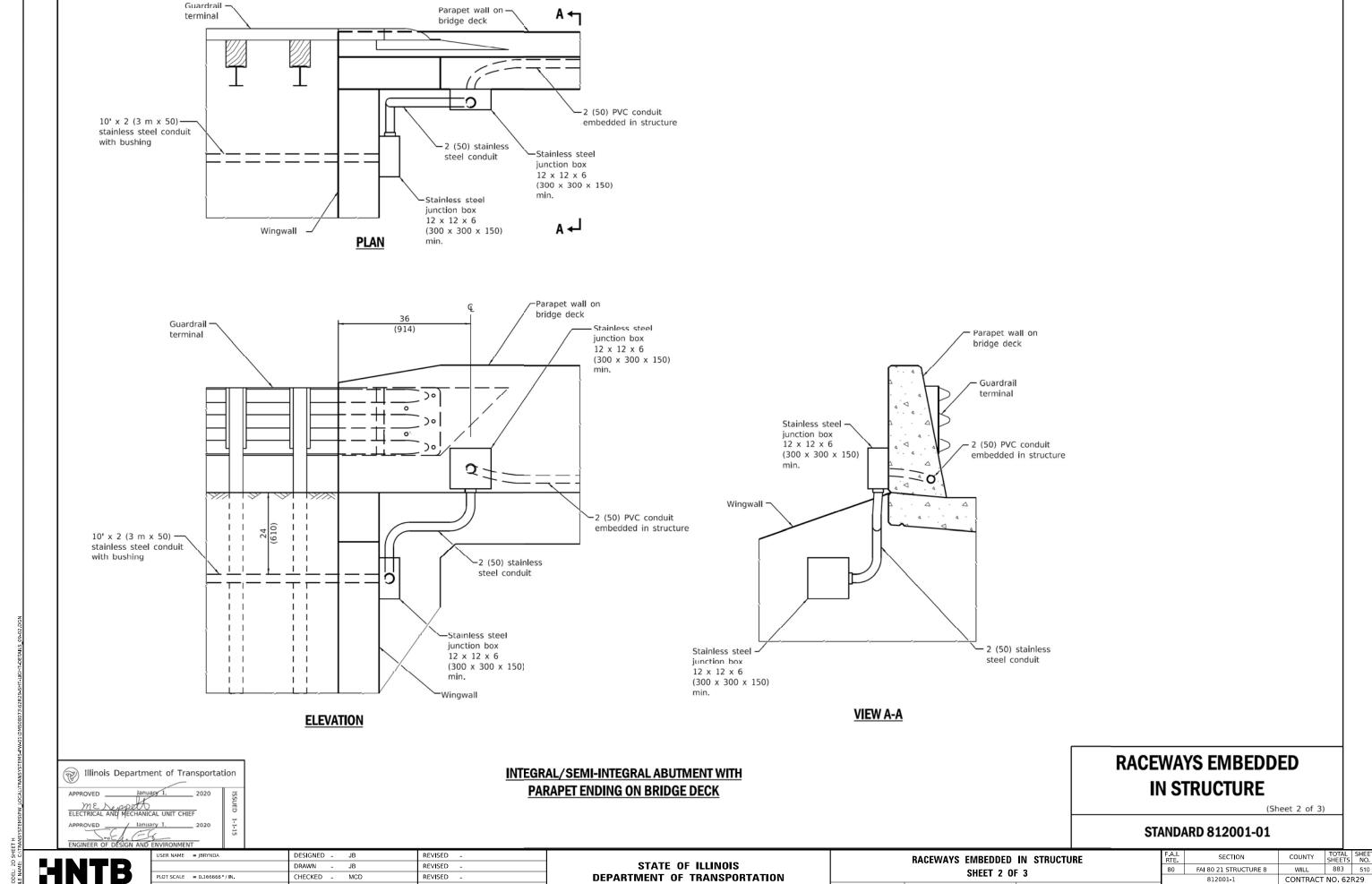
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SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS								
SHEET	OF	SHEETS	STA.		TO STA.			

	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHI	
ı	80	FAI 80 21 STRUCTURI	WILL	883	50	
-		BE-901	CONTRACT	NO. 621	R29	
ı		ILLINOIS	FED. All	D PROJECT		





SCALE:

SHEET

SHEETS STA.

OF

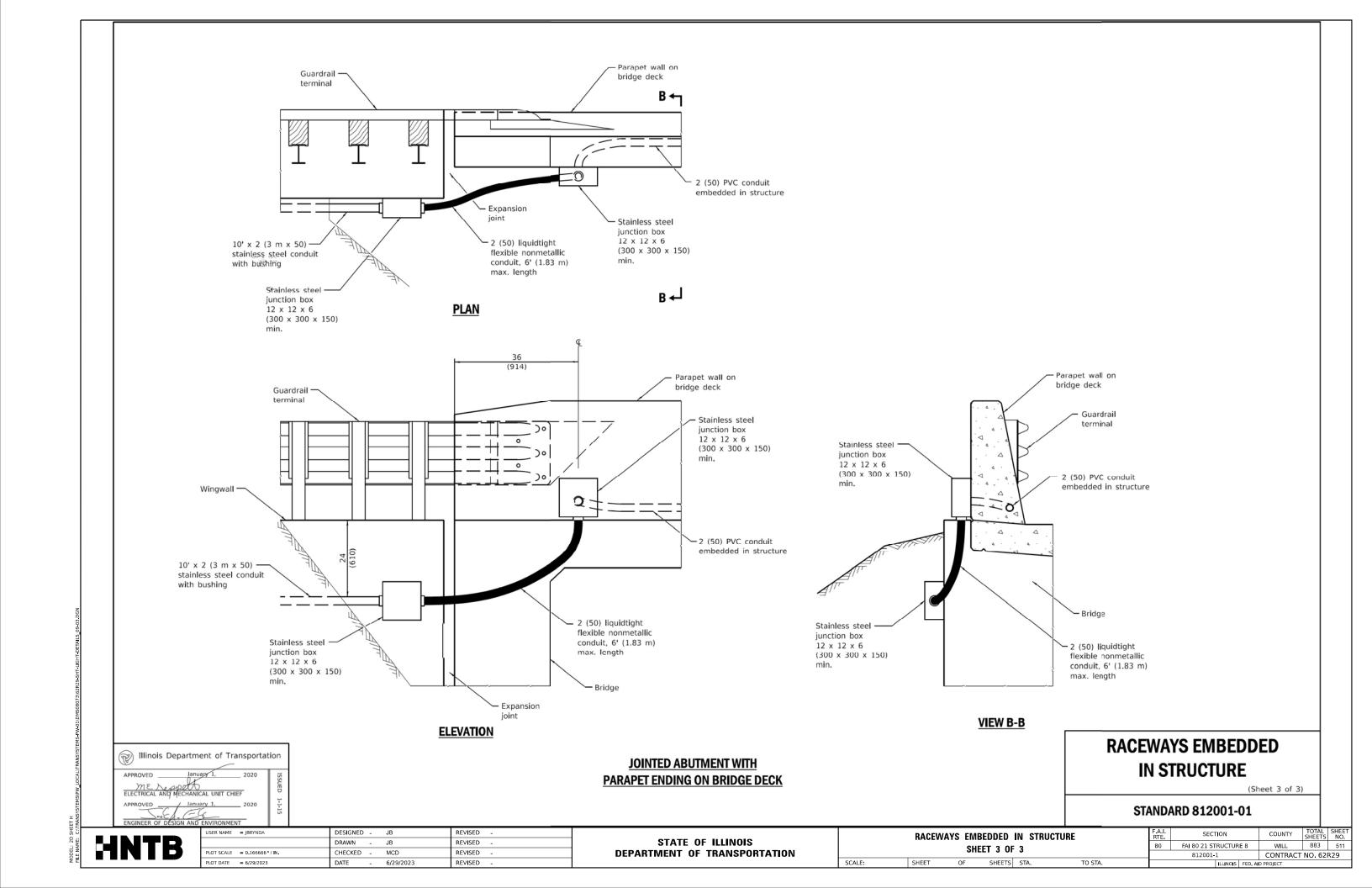
TO STA.

PLOT DATE = 6/29/2023

DATE

- 6/29/2023

REVISED



SYMBOLS FOR EXISTING CONDITIONS

- AUTOMATIC TRAFFIC RECORDER (ATR) STATION
- ® BLUETOOTH DETECTION ASSEMBLY
- © CLOSED CIRCUIT TELEVISION CAMERA
- DYNAMIC MESSAGE SIGN
- HEAVY DUTY HANDHOLE (ELECTRICAL)
- COMMUNICATIONS VAULT
- JUNCTION BOX ATTACHED TO STRUCTURE
- ITS POLE AND FOUNDATION
- ☑ GROUND MOUNTED CABINET
- ELECTRIC UTILITY POLE
- △ POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- SERVICE METER PEDESTAL

SYMBOLS FOR PROPOSED WORK

- HEAVY DUTY HANDHOLE (ELECTRICAL)
- COMMUNICATIONS VAULT (IDOT)
- ☐ COMMUNICATIONS VAULT (THIRD PARTY)
- JUNCTION BOX ATTACHED TO STRUCTURE*
- CONCRETE FOUNDATION FOR FUTURE ITS POLE
- TYPE "A" FOUNDATION FOR FUTURE DISCONNECT
- FND FOUNDATION FOR FUTURE GROUND MOUNTED CABINET*
- **■** FOUNDATION MOUNTED CABINET*
- ELECTRIC UTILITY POLE
- ▲ POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- SERVICE METER PEDESTAL

*TYPE AND/OR SIZE AS INDICATED ON PLANS

LINESTYLES FOR EXISTING CONDITIONS

———— E ———— E ——	ELECTRICAL CABLE IN CONDUIT*
	FIBER OPTIC CABLE IN CONDUIT*
EE	ELECTRICAL CABLE TO REMAIN
F0 F0	FIBER OPTIC CABLE TO REMAIN
	*CABLE TO BE REMOVED; CONDUIT TO BE ABANDONED

LINESTYLES FOR PROPOSED WORK

——E——E—	CONDUIT FOR FUTURE ELECTRICAL CABLE*
F0F0	MICRODUCT OR INNERDUCT FOR FUTURE FIBER OPTIC CABLES
	CONDUIT SLEEVE*
	*TYPE AND SIZE AS INDICATED ON PLANS

NON-ITS ELEMENTS LEGEND

T	EXISTING UNDERGROUND TELEPHONE
1	EXISTING UNDERGROUND GAS
сту	EXISTING UNDERGROUND CABLE TV
$\vdash\!$	EXISTING UNDERGROUND WATER
· — · · · · · · · · · · · · · · · · · ·	EXISTING UNDERGROUND OIL
AC	EXISTING ACCESS CONTROL AND ROW FENCE
———A———	EXISTING AERIAL LINE
0 0 0 0 0	EXISTING GUARDRAIL
$-\!$	Existing STORM SEWER
~ ©	EXISTING LIGHTING
þ	EXISTING SIGNAGE
	PROPOSED ACCESS CONTROL AND ROW FENCE-
	Proposed GUARDRAIL
$\longrightarrow \longrightarrow -$	PROPOSED STORM SEWER
	PROPOSED Underdrain
• • •	PROPOSED DRAINAGE
← ~~	PROPOSED DRAINAGE FLOW
⋈ ⊶¤	PROPOSED LIGHTING
ŀ	PROPOSED SIGNAGE

ABBREVIATIONS*

(A)	ABANDON IN PLACE
ATR	AUTOMATIC TRAFFIC RECORDER
ATS	ATTACHED TO STRUCTURE
CCTV	CLOSED CIRCUIT TELEVISION
CNC	COILABLE NONMETALLIC CONDUIT
COMM	COMMUNICATION
DCF	DISTRIBUTION CABLE FIBER
DMS	DYNAMIC MESSAGE SIGN
F	FIBER
FRE	FIBER REINFORCED EPOXY (CONDUIT)
FT	FEET
GS	GALVANIZED STEEL
HDHH	HEAVY DUTY HANDHOLE
JB	JUNCTION BOX
NTS	NOT TO SCALE
OFF	OFFSET
SM	SINGLE MODE
TCF	TRUNK CABLE FIBER
TRNS	TRANSFORMER

*NOT LISTED IN IDOT STANDARD 000001-08

Transmart

100 S. Wacker Drive Suite 400

Chiego Illinois 40404

USER NAME = JMALCOLM	DESIGNED	~	DJM	REVISED	
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE

ITS LEGEND & ABBREVIATIONS						F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						80	FAI 80 21 STRUCTURE 8	WILL	883	512
								CONTRACT	NO. 621	R29
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS EED A	D PROJECT		

GENERAL NOTES

- 1. A MINIMUM OF SEVENTY-TWO (72) HOURS BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800-892-0123) OR 811 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
- IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-
- AFTER THE INITIAL LOCATE OF IDOT FACILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE.
- POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER/UNDER EXISTING AND PROPOSED FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLES. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION.
- CONDUIT CROSSING OVER/UNDER OTHER UTILITIES SHALL MAINTAIN A SEPERATION OF AT LEAST 12 INCHES OR AS SPECIFIED BY OWNING UTILITY.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 30 INCHES MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES AND STRUCTURES OR TO ENTER COMMUNICATIONS VAULTS OR HANDHOLES.
- 12. THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREA, ROADSIDE DITCHES AND RETENTION PONDS.
- 13. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS OR JUNCTION BOXES.
- 14. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS OR JUNCTION BOXES.
- 15. THE COMMUNICATION VAULT SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- 17. ITS REMOVAL PLAN SHEETS DEPICT EXISTING CONDITIONS AND WORK TO BE PERFORMED TO MAINTAIN, REMOVE, SALVAGE, OR ABANDON EXISTING ITS INFRASTRUCTURE. PROPOSED ITS PLAN SHEETS DEPICT NEW ITS INFRASTRUCTURE TO BE INSTALLED.
- ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS. EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DESIGNATED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL BE COMPLETED IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED AND SHALL NOT CREATE AN UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FORM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD
- 20. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- 22. ELECTRICAL HANDHOLE COVER LEGEND SHALL BE "IDOT ITS".
- 23. ITS SYMBOLS ARE OVERSIZED ON THE PLANS FOR CLARITY. CONTRACTOR SHALL USE STATIONS AND OFFSETS TO ACCURATELY LOCATE EQUIPMENT.

BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY	IDOT QTY*	THIRD PARTY QTY*	WILL COUNTY QTY*
20200200	ROCK EXCAVATION	CU YD	200	-	-	-
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	200	-	-	-
80400100	ELECTRIC SERVICE INSTALLATION	EACH	5	-	-	-
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	0.7**	-	-	-
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	143	-	-	-
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	3,049	2,444	605	-
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	138	-	-	-
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	8,004	-	-	-
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	166	-	-	-
81400200	HEAVY-DUTY HANDHOLE	EACH	18	-	-	-
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	924	-	-	-
84200804	REMOVAL OF POLE FOUNDATION	EACH	9	-	-	-
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	-	-	-
86300300	CONTROLLER CABINET TYPE III	EACH	1	-	-	-
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	15	-	-	-
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4	-	-	-
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	108	-	-	-
87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1	-	-	-
88600100	DETECTOR LOOP, TYPE I	FOOT	76	-	-	-
88600300	DETECTOR LOOP, TYPE III	FOOT	558	-	-	-
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,211	-	-	-
89502380	REMOVE EXISTING HANDHOLE	EACH	13	-	-	-
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	-	-	-
X0301242	PIEZO AXLE SENSOR, CLASS II	FOOT	69	-	-	-
X0323388	TRAFFIC COUNTER	EACH	2	-	-	-
X0327116	SOLAR POWER ASSEMBLY	EACH	1	-	-	-
X8710318	FIBER OPTIC UTILITY MARKER	EACH	92	59	33	-
X8710402	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	2,404	2,301	-	103
X8730810	ELECTRIC CABLE IN CONDUIT, CONOGA-30003	FOOT	1,226	-	-	-
X8780200	CONCRETE FOUNDATION, SURVEILLANCE CABINET MODEL 334	EACH	2	-	-	-
X8950425	REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT	L SUM	1	-	-	-
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	13,898	-	-	-
Z0033052	COMMUNICATIONS VAULT	EACH	34	21	12	1
	UNDERGROUND CONDUIT, MULTI-DUCT, 7-18MM MICRODUCTS	FOOT	52,849	33,783	19,066	-

*THESE COLUMNS ARE NOT ADDITIONAL QUANTITY, THEY PROVIDE THE QUANTITY SPLIT BETWEEN IDOT, THIRD PARTY AND WILL COUNTY FOR THE ITEMS LISTED

**THE TOTAL PROJECT QUANTITY IS 1.0 LUMP SUM FOR ALL ELECTRIC UTILITY SERVICE CONNECTIONS. THE QUANTITY OF 0.7 REPRESENTS THE PROPORTION OF THIS ITEM ASSOCIATED WITH ITS ELECTRIC SERVICES.

TranSmart

SER NAME = DMEIER DESIGNED - DJM REVISED DRAWN -JNR REVISED LOT SCALE = 0.16666633 ' / IN. CHECKED -REVISED PLOT DATE = 7/18/2023 DATE 6/29/2023 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE

SHEET

SECTION ITS GENERAL NOTES AND FAI 80 21 STRUCTURE 8 WILL 899 513 **BILL OF MATERIALS** CONTRACT NO. 62R29 SHEETS STA. TO STA.

SITE REMOVALS SCHEDULE

STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
768+84	84' LT	84200804, X8950425	515
791+67	95' RT	84200804, X8950425	517
818+67	88' LT	84200804, X8950425	518
845+17	94' RT	84200804, X8950425	520
855+53	87' RT	84200804, X8950425	521
858+94	95' RT	89502385, X8950425	521
866+85	102' LT	84500120	522
868+21	93' LT	89502385, X8950425	523
870+93	90' LT	84200804, X8950425	523
871+70	105' LT	84200804, X8950425	523
875+31	100' LT	89502385, X8950425	523
897+70	92' RT	84200804, X8950425	524
907+42	99' LT	89502385, X8950425	524
924+51	107' LT	84200804, X8950425	525
	768+84 791+67 818+67 845+17 855+53 858+94 866+85 868+21 870+93 871+70 875+31 897+70 907+42	768+84 84' LT 791+67 95' RT 818+67 88' LT 845+17 94' RT 855+53 87' RT 858+94 95' RT 866+85 102' LT 868+21 93' LT 870+93 90' LT 871+70 105' LT 875+31 100' LT 897+70 92' RT 907+42 99' LT	768+84 84' LT 84200804, X8950425 791+67 95' RT 84200804, X8950425 818+67 88' LT 84200804, X8950425 845+17 94' RT 84200804, X8950425 855+53 87' RT 84200804, X8950425 858+94 95' RT 89502385, X8950425 866+85 102' LT 84500120 868+21 93' LT 89502385, X8950425 870+93 90' LT 84200804, X8950425 871+70 105' LT 84200804, X8950425 875+31 100' LT 89502385, X8950425 897+70 92' RT 84200804, X8950425 907+42 99' LT 89502385, X8950425

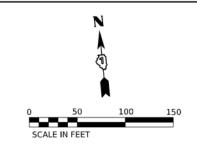
^{*}STATION/OFFSET OF THE CONTROLLER CABINET IS LISTED

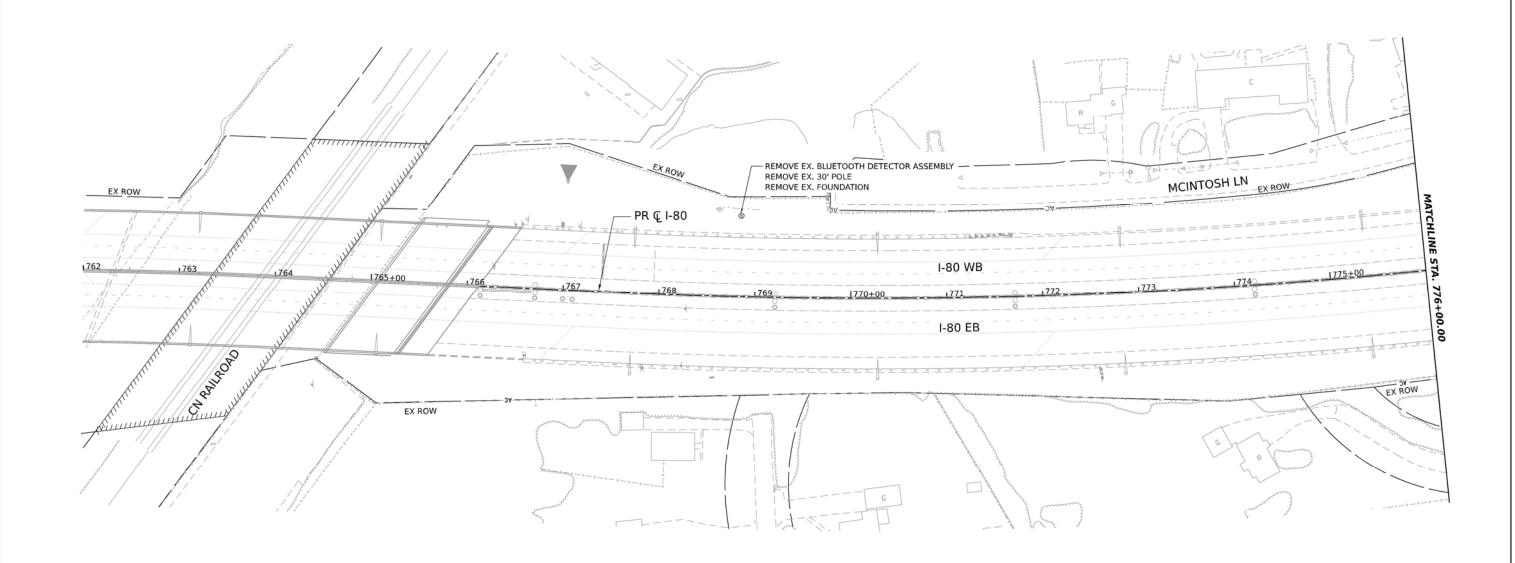
PROPOSED SITE SCHEDULE

ITEM	STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
30" DIA CONCRETE FOUNDATION	783+25	84' RT	87800400	527
ELECTRIC SERVICE	783+61	146' RT	80400100, 80400200	527
ELECTRIC SERVICE	800+17	134' RT	80400100, 80400200	528
30" DIA CONCRETE FOUNDATION	806+60	115' RT	87800400	528
30" DIA CONCRETE FOUNDATION	RAMP C, 311+75	70' LT	87800400	528
30" DIA CONCRETE FOUNDATION	831+00	78' LT	87800400	530
30" DIA CONCRETE FOUNDATION	852+50	72' RT	87800400	532
334 CABINET FOUNDATION	853+50	73.5' RT	X8780200	532
ELECTRIC SERVICE	866+93	130' RT	80400100, 80400200	533
334 CABINET FOUNDATION	870+75	73.5' LT	X8780200	533
30" DIA CONCRETE FOUNDATION	871+50	72' LT	87800400	533
ELECTRIC SERVICE	894+97	123' LT	80400100, 80400200	534
30" DIA CONCRETE FOUNDATION	915+75	72' RT	87800400	535
30" DIA CONCRETE FOUNDATION	917+00	70' RT	87800400	536
ELECTRIC SERVICE	919+01	112' RT	80400100, 80400200	536

USER NAME = JMALCOLM	DESIGNED	~	DJM	REVISED	
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

	ITS SCHEDULES								COUNTY	TOTAL SHEETS	SHEET NO.
							FAI 80 21 STRUCTU	RE 8	WILL	883	514
									CONTRACT	NO. 621	R29
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID		D PROJECT		



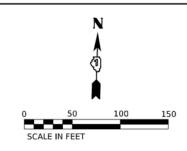


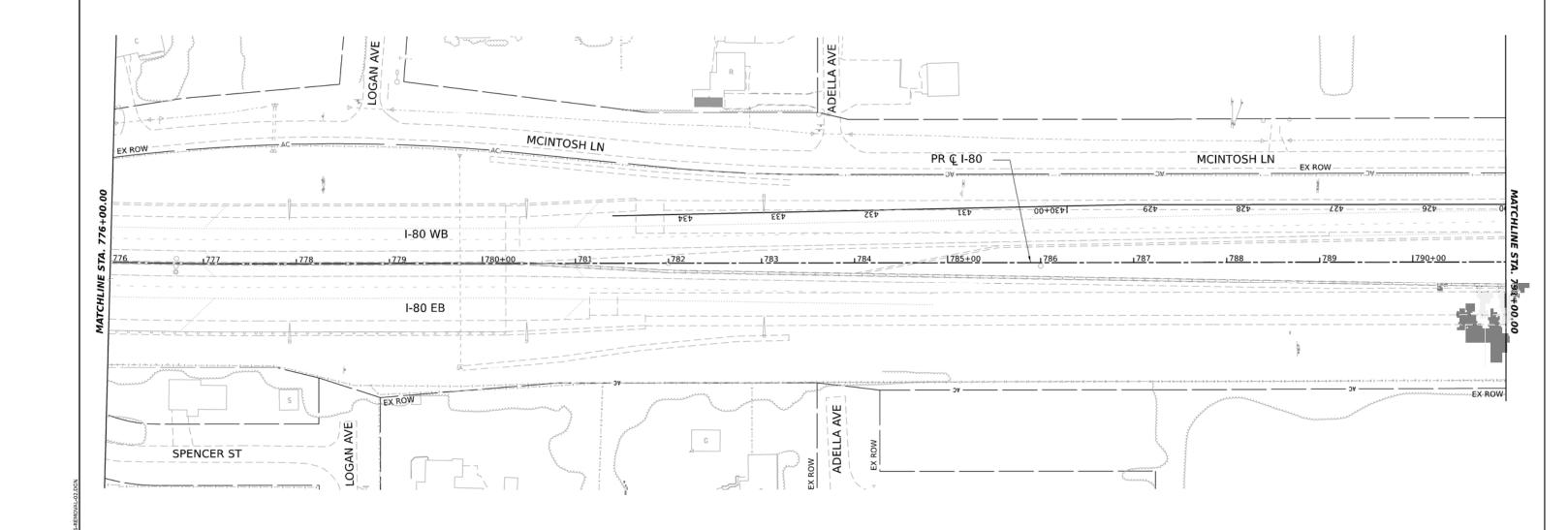
TranSmart*	
100 S. Wacker Drive Suite 400	
Chicago, Illinois 60606	

USER NAME = DMEIER	DESIGNED		DJM	REVISED -	Г
	DRAWN	-	JNR	REVISED -	
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED -	
PLOT DATE = 7/17/2023	DATE	-	6/29/2023	REVISED -	

STATI	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	ON

	I–80						SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ITS REMOVAL PLANS						80	80 FAI 80 21 STRUCTURE 8			WILL	899	515
TIO HEINIOVAL PLANO										CONTRACT	NO. 62	R29
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 762+00	TO STA. 776+00		ILLINOIS FED. AID PROJECT		D PROJECT			





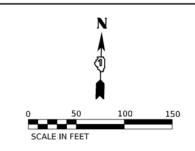
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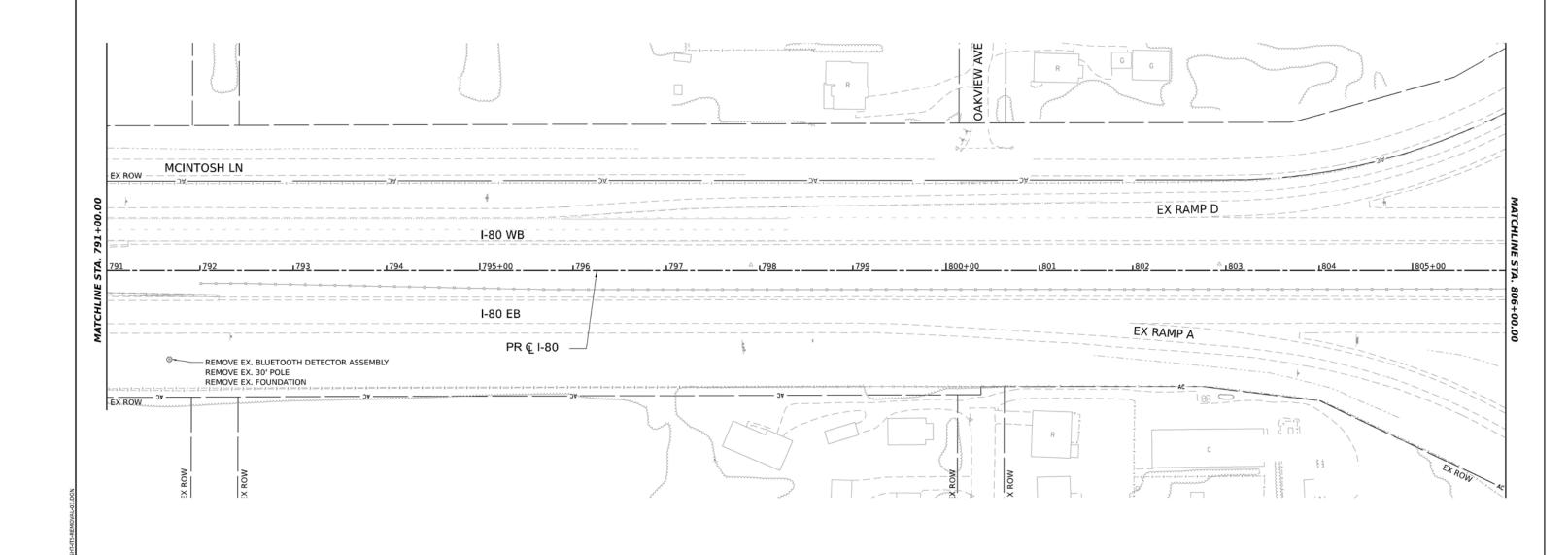
Transmart

100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

	CHECKED - REL REVISED -	PLOT SCALE = 0.16666633 ' / IN.
PLOT DATE = 7/17/2023 DATE - 6/29/2023 REVISED -		

				I-80				F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHE
	ITS REMOVAL PLANS						80	FAI 80 21 ST	RUCTUR	E 8	WILL	899	516	
											CONTRACT	NO. 621	R29	
	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 776+00	TO STA.	791+00			ILLINOIS	FED. All	D PROJECT		





TranSmart"
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

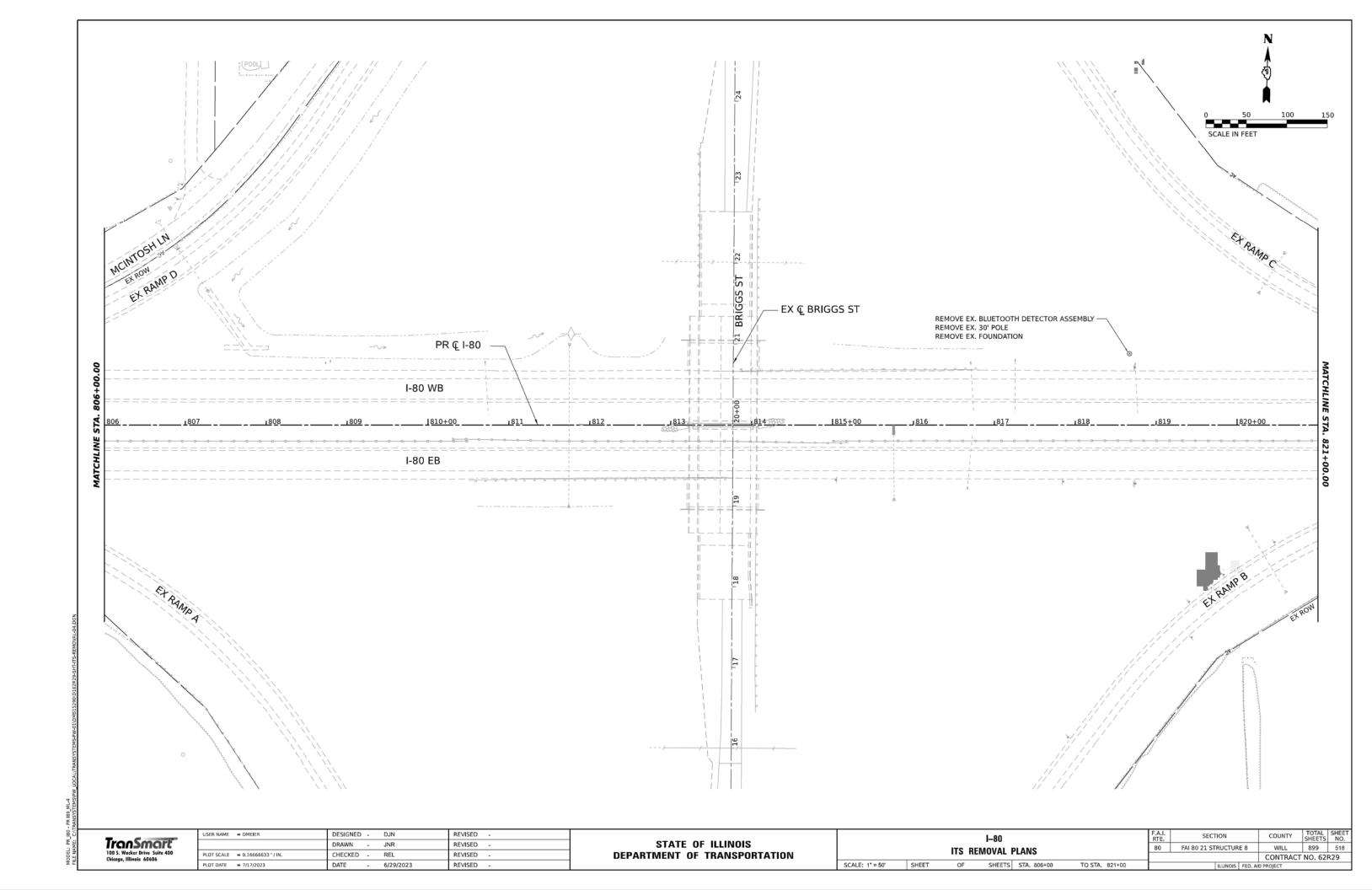
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		DRAWN -	JNR	REVISED -	
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	PLOT DATE = 7/17/2023	DATE -	6/29/2023	REVISED -	

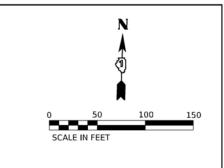
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DEPARTMENT	OF TRANSPORTATI	ON

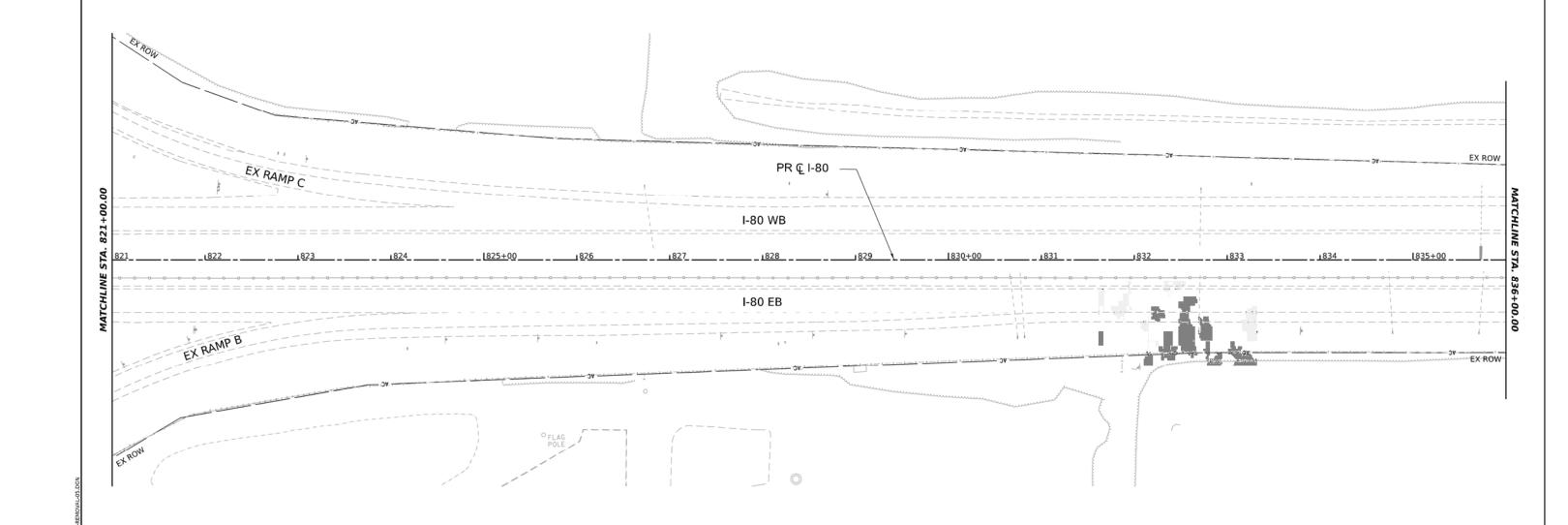
SCALE: 1" = 50' SHEET

I–80 ITS REMOVAL PLANS					SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
					FAI 80 21 STRUCTURE 8		WILL	899	517
113 NEWOVAL FLANS						C	ONTRACT	NO. 62	R29
OF	SHEETS	STA. 791+00	TO STA. 806+00		ILLINOIS FE	ED. AID PR	OJECT		

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NOTES 1. NO WORK ON THIS SHEET.

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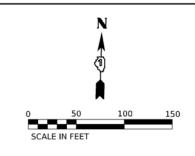
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Chicago, Illinois 60606

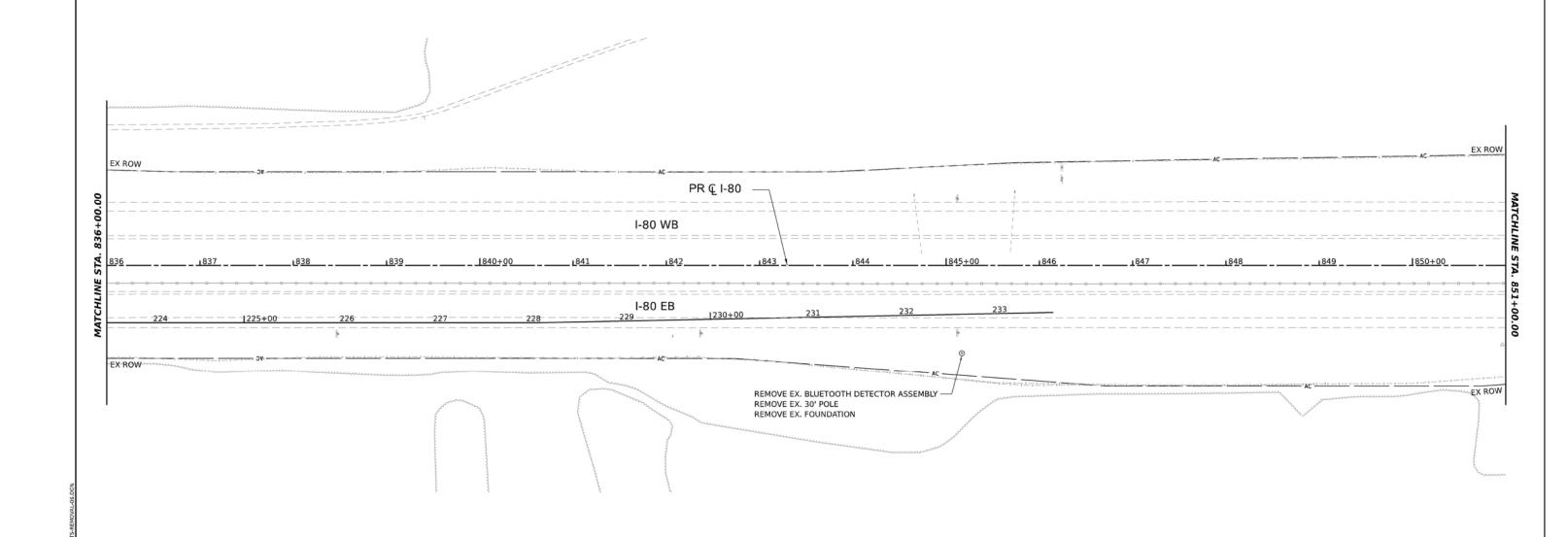
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	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 7/17/2023	DATE	-	6/29/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50'

	F.A.I. RTE.	SECT	TION		cou				
	ITS RE	MOVAL F	80	FAI 80 21 ST	RUCTUR	E 8	W		
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SHEET	OF	SHEETS	STA. 821+00	TO STA. 836+00			ILLINOIS	FED. AI	D PROJEC



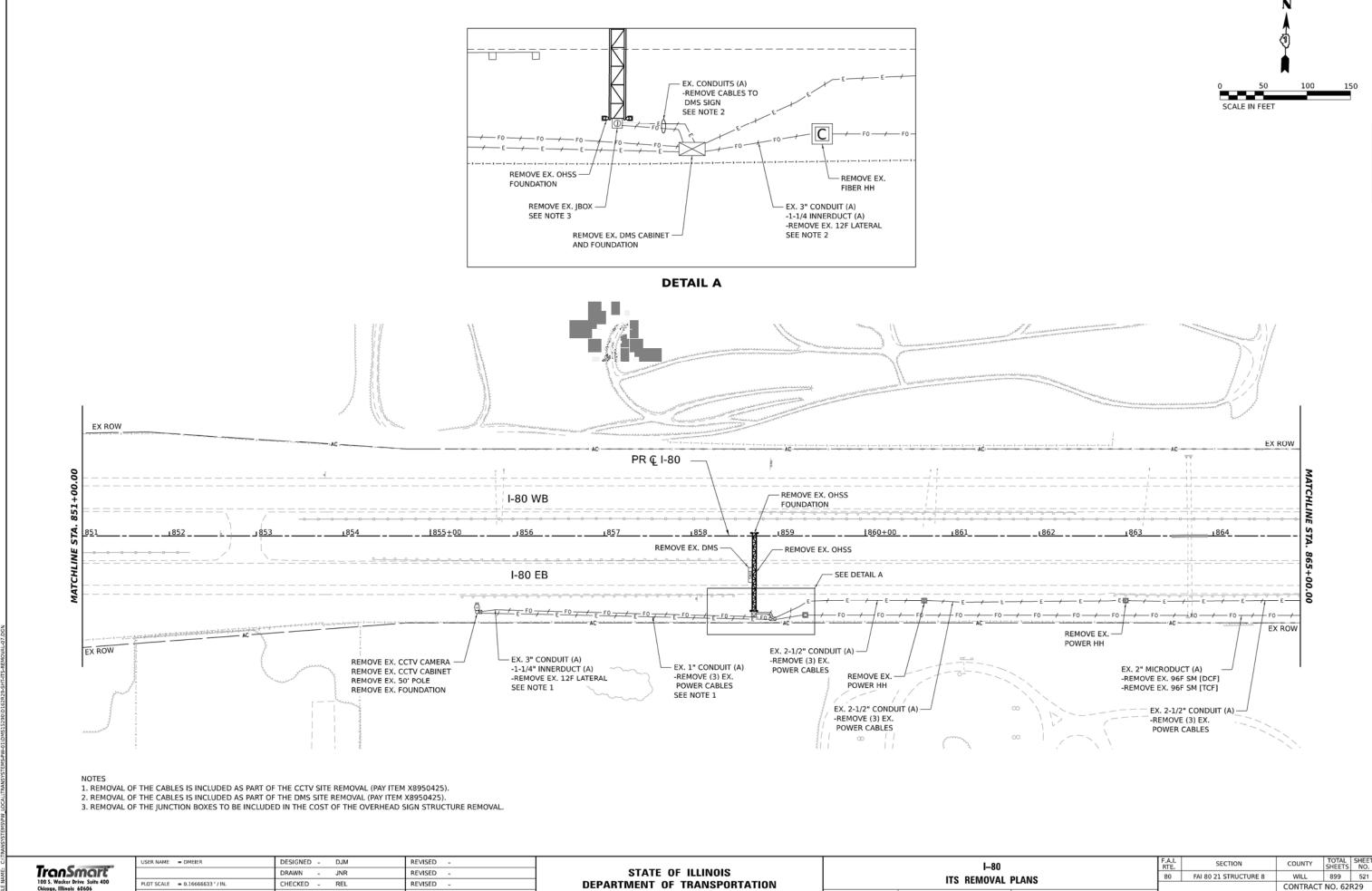


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100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = DMEIER	DESIGNED	-	DJM	REVISED	
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 7/17/2023	DATE	-	6/29/2023	REVISED	-

I–80							SECT	TION		COUNTY	TO SH
	80 FAI 80 21 STRUCTURE 8			WILL	89						
					CONTRACT	NC					
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 836+00	TO STA. 851+00			ILLINOIS	FED. AI	D PROJECT	



SCALE: 1" = 50'

SHEET

SHEETS STA. 851+00

TO STA. 865+00

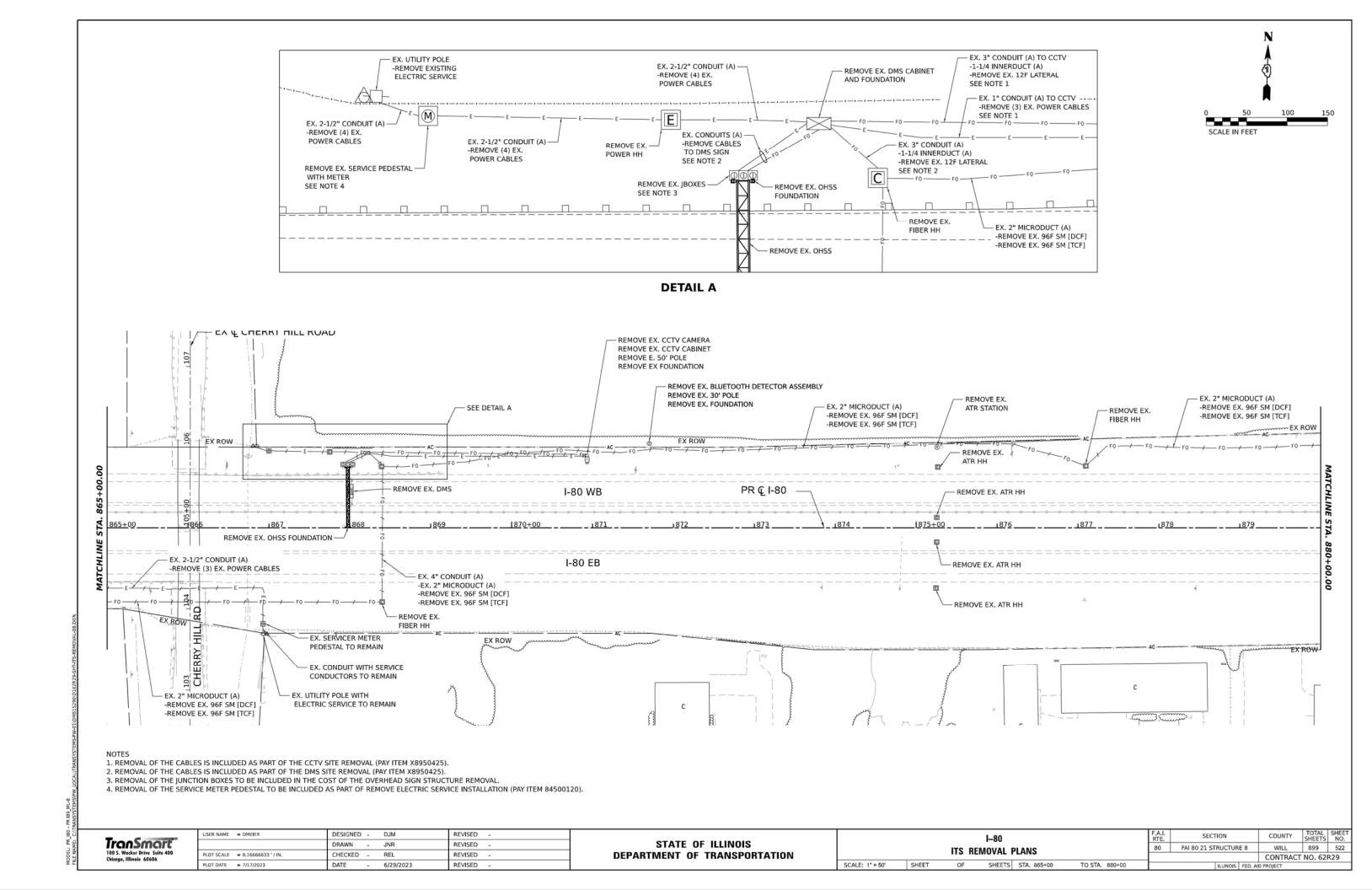
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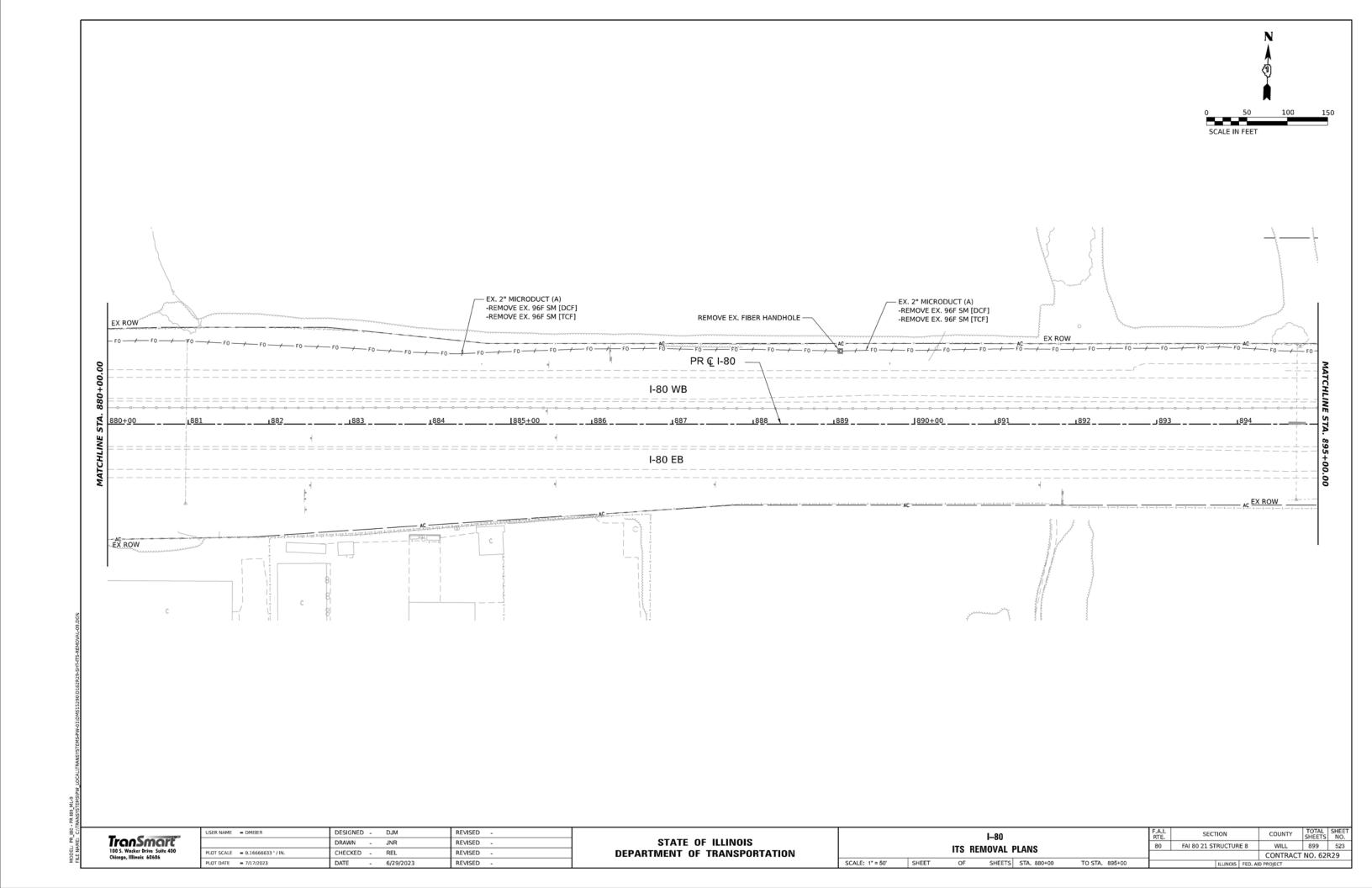
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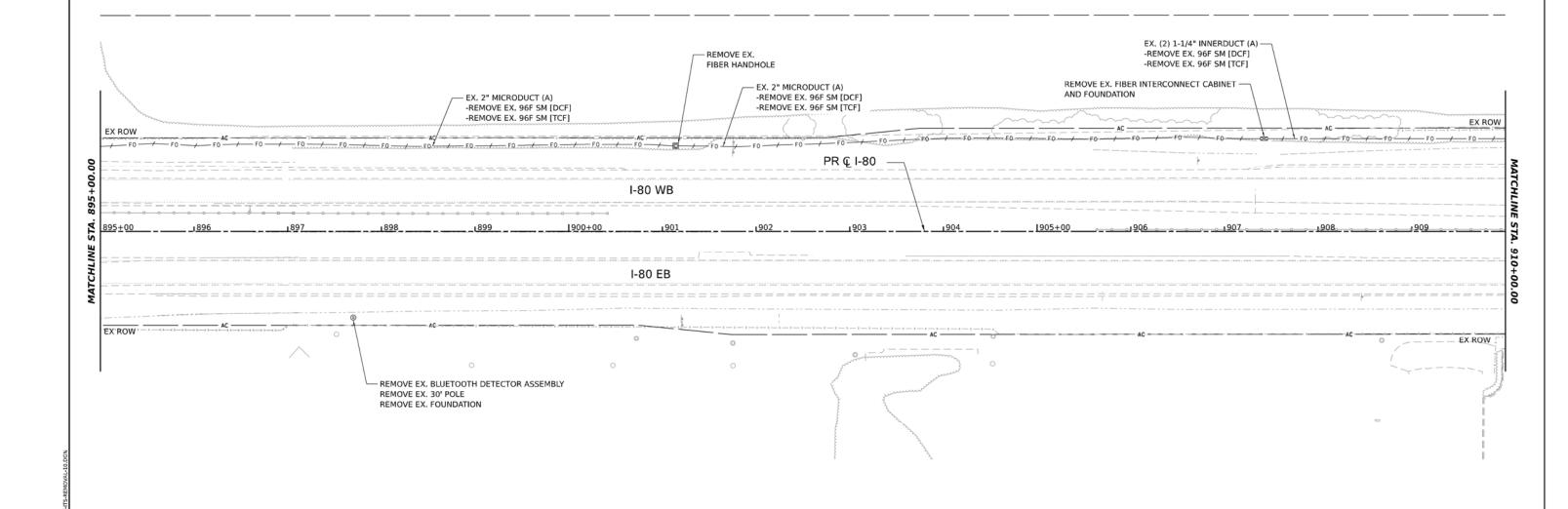
DATE

6/29/2023

REVISED







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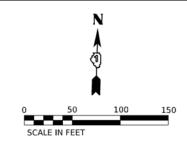
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Chicago, Illinois 60606

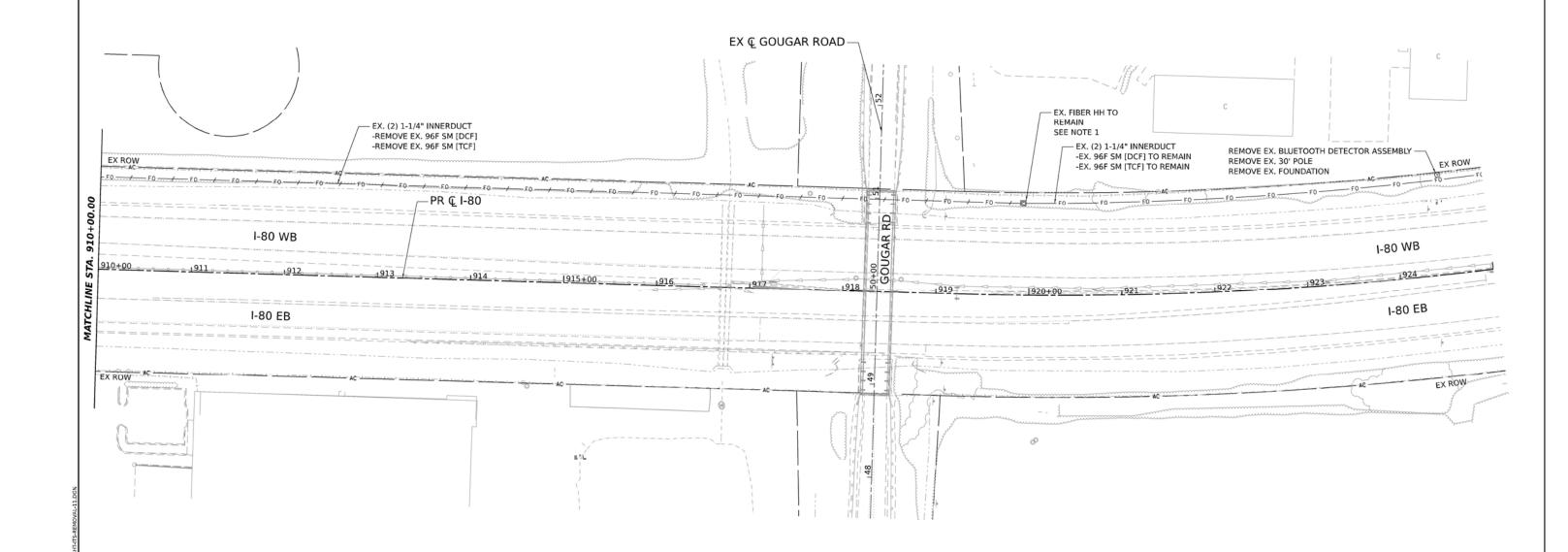
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	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 7/17/2023	DATE	-	6/29/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50' SHEET

I–80						SECTION		COUNTY	TOTAL SHEETS	SF 1
ITS REMOVAL PLANS					80	FAI 80 21 STRUCTURE 8		WILL	899	5
								CONTRACT	NO. 621	32
OF	SHEETS	STA. 895+00	TO STA. 910+00			ILLINOIS	FED. AII	D PROJECT		





 CONTRACTOR SHALL CUT THE EXISTING IDOT FIBER CABLES WITHIN THE EXISTING COMMUNICATIONS HANDHOLE AND SHALL LEAVE A MINIMUM OF 50' SLACK FOR EACH CABLE WITHIN THE EXISTING HANDHOLE, NEATLY COILED AND DRESSED FOR FUTURE USE.

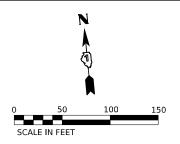
TranSmart*
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

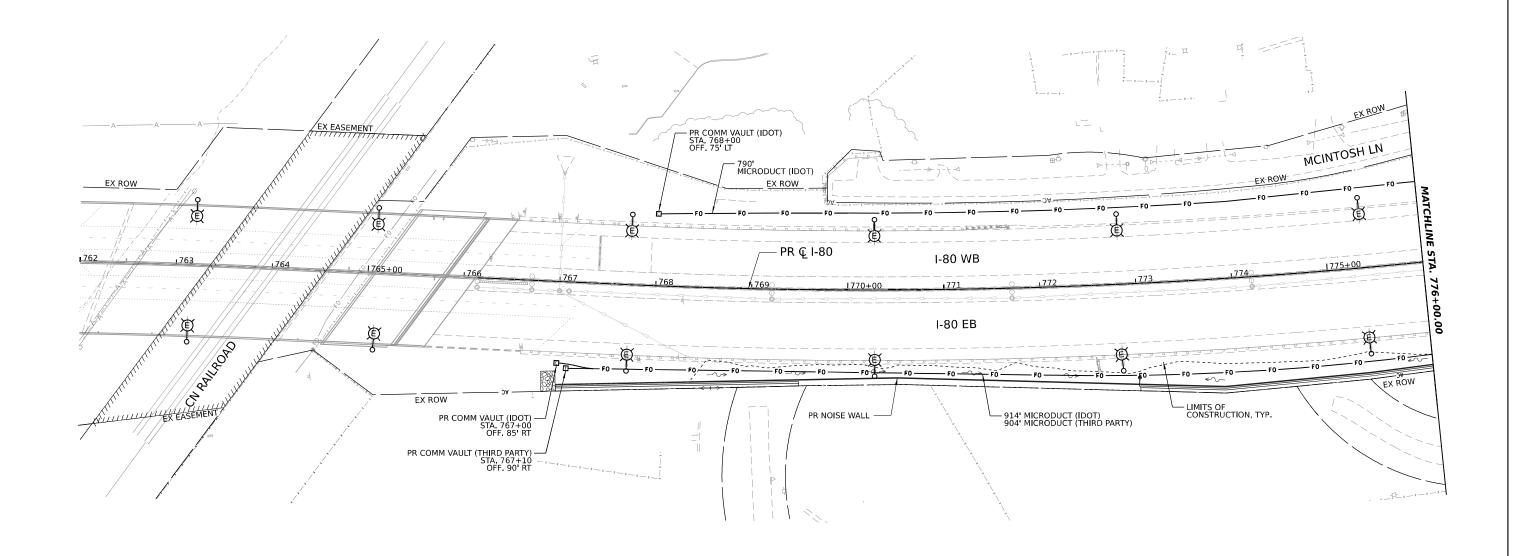
m22	USER NAME = DMEIER	DESIGNED	-	DJM	REVISED	-
		DRAWN	-	JNR	REVISED	-
)	PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
	PLOT DATE = 7/17/2023	DATE	-	6/29/2023	REVISED	-

STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

SCALE: 1" = 50' SHEET

I-80					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ITS REMOVAL PLANS				80	FAI 80 21 STRUCTURE 8	WILL	899	525
						CONTRACT	NO. 62	R29
OF	SHEETS	STA. 910+00	TO STA. 925+00		ILLINOIS FED. A	ID PROJECT		





- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
 THIRD PARTY MICRODUCTS SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.

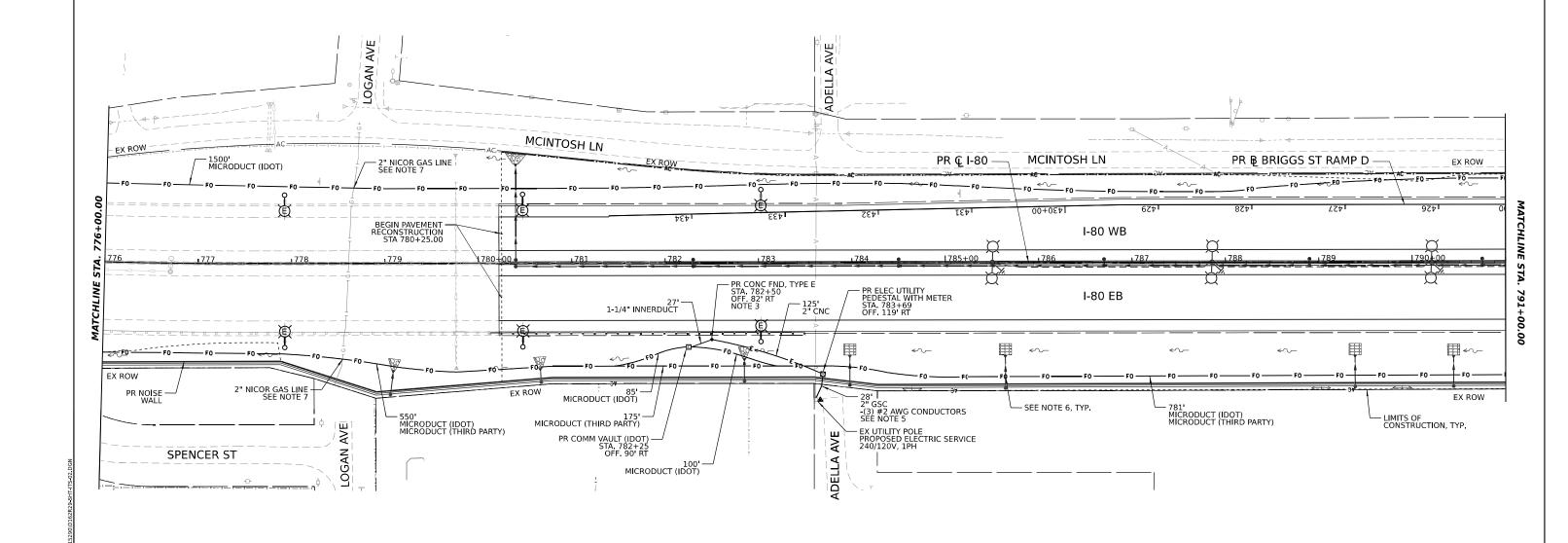
TranSmart"
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED	-
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50' SHEET

I-80 S INFRASTRUCTURE PLANS						SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
						FAI 80 21 STRUCTUR	E 8	WILL	883	526
								CONTRACT	NO. 621	२29
OF	SHEETS	STA. 763+00	TO STA. 771+0	00		ILLINOIS	FED. A	D PROJECT		



- 1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
- THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.

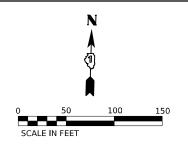
 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4"
- INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.

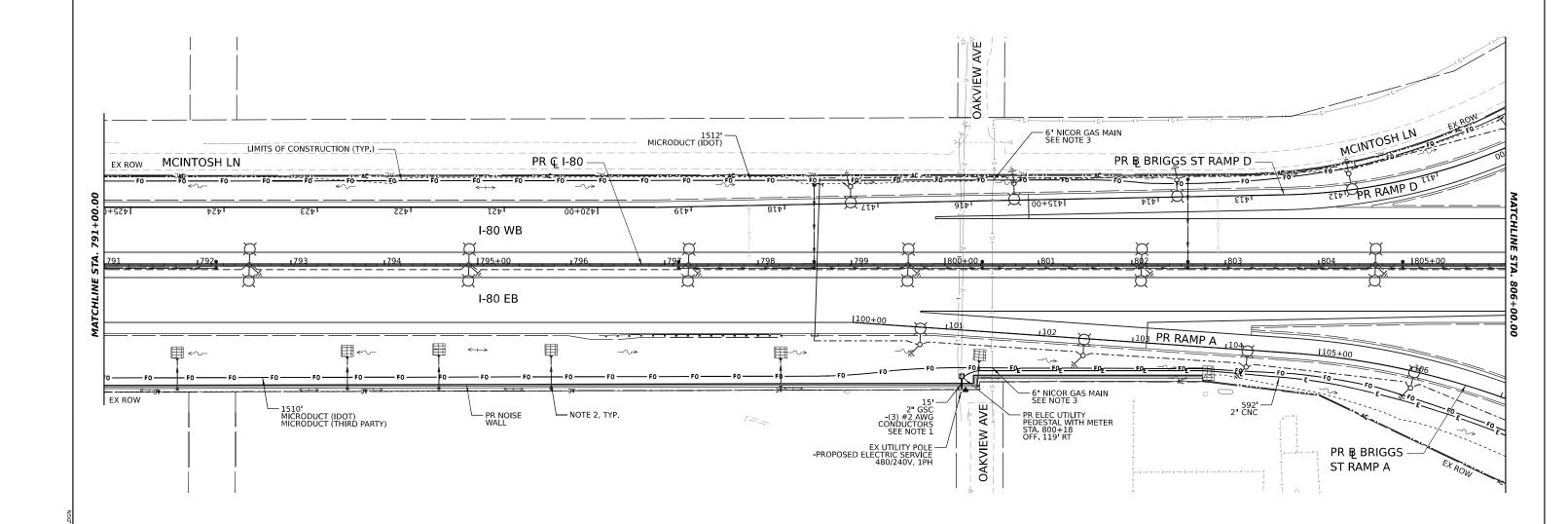
- THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
 COORDINATE WITH INSTALLATION OF NOISE WALL. CONDUIT SHALL BE INSTALLED A MINIMUM OF 5'
 FROM NOISE WALL DRILLED SHAFT.
 COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS
 MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
 INSTALL ITS MICRODUCT/CONDUIT WITH A MINIMUM 3' CLEARANCE TO GAS LINE OR AS SPECIFIED BY
- THE UTILITY.

To a Consulta
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED	-
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

	I-80 ITS INFRASTRUCTURE PLANS							COUNTY	TOTAL SHEETS	SHEET NO.
								WILL	883	527
		3 IIIIIA	31110010			CONTRACT	NO. 62	R29		
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 776+00	TO STA. 791+00		ILLINOIS FED. AI	D PROJECT		





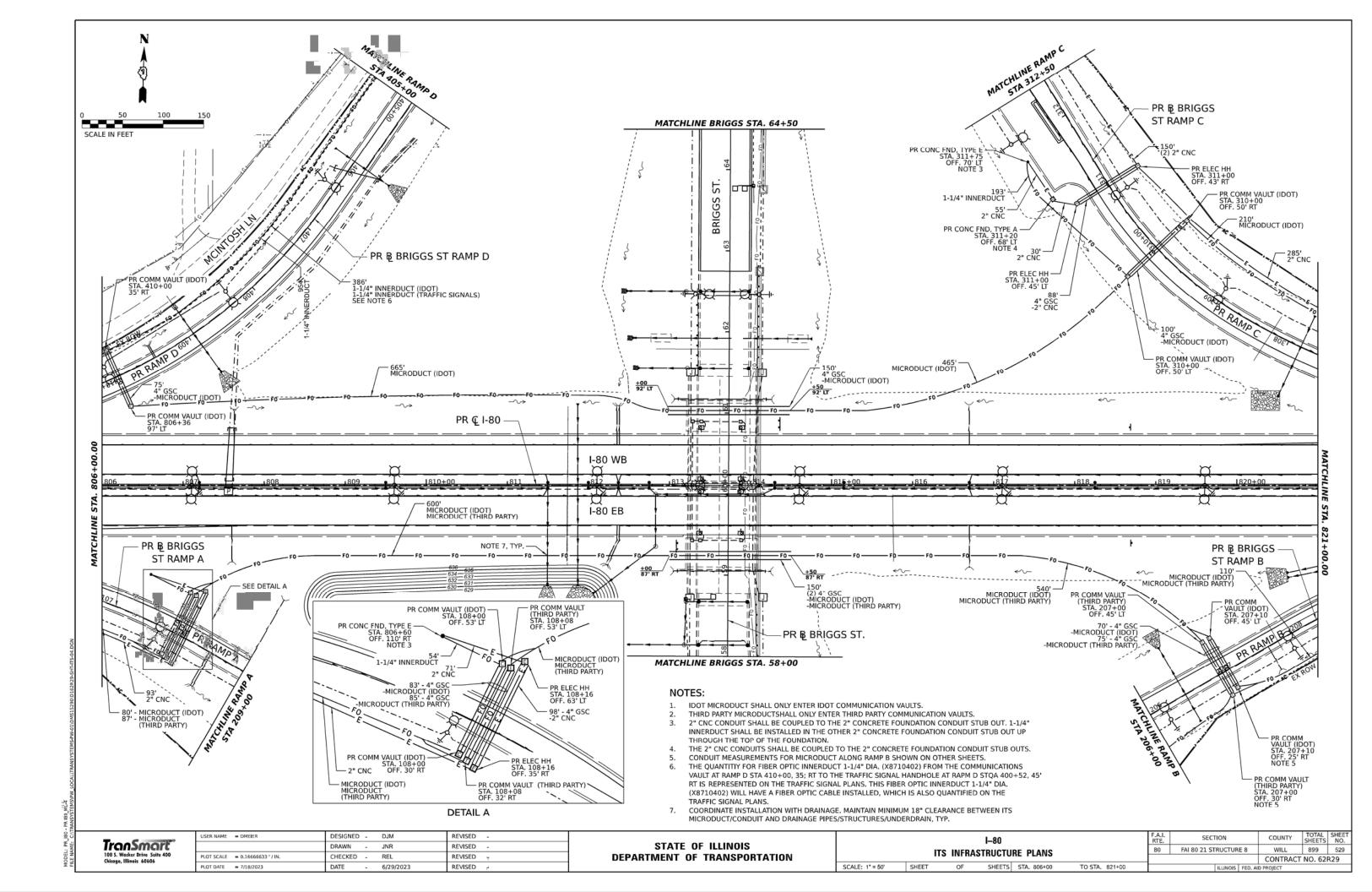
- 1. COORDINATE WITH INSTALLATION OF NOISE WALL, CONDUIT SHALL BE INSTALLED A MINIMUM OF 5' FROM NOISE WALL DRILLED SHAFT.
- 2. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

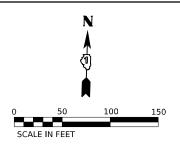
 3. INSTALL ITS MICRODUCT/CONDUIT WITH A MINIMUM 3' CLEARANCE TO GAS LINE OR AS SPECIFIED BY THE UTILITY.

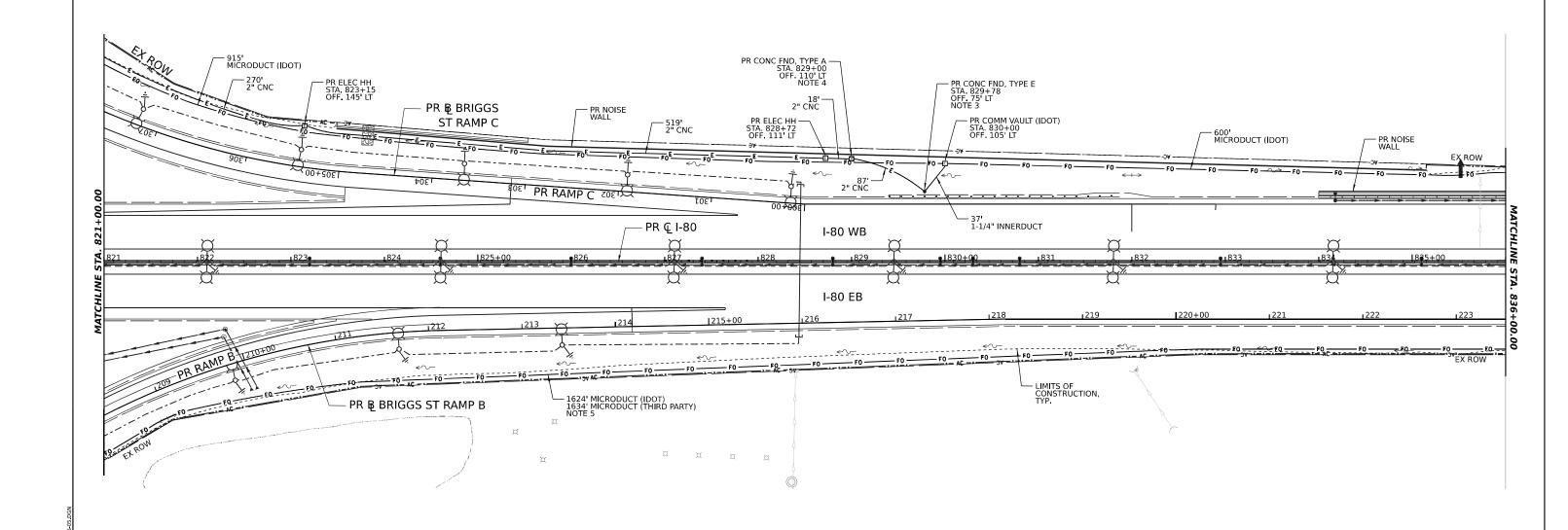
T .	C
II	anSmart"
100	S. Wacker Drive Suite 400
Chic	ago, Illinois 60606

USER NAME = DMEIER	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 7/18/2023	DATE	-	6/29/2023	REVISED -

			I-80	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	ITS INFRASTRUCTURE PLANS							WILL	899	528
) IIII IIA	31110010	IL I LANS				CONTRACT	NO. 62	R29
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 791+00	TO STA. 806+00		ILLINOIS FED.	AID PROJECT		







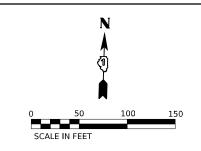
- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
 THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4"
 INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP
 THROUGH THE TOP OF THE FOUNDATION.
 THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
 LENGTHS ARE MEASURED FROM VAULTS ON SHEET 540.

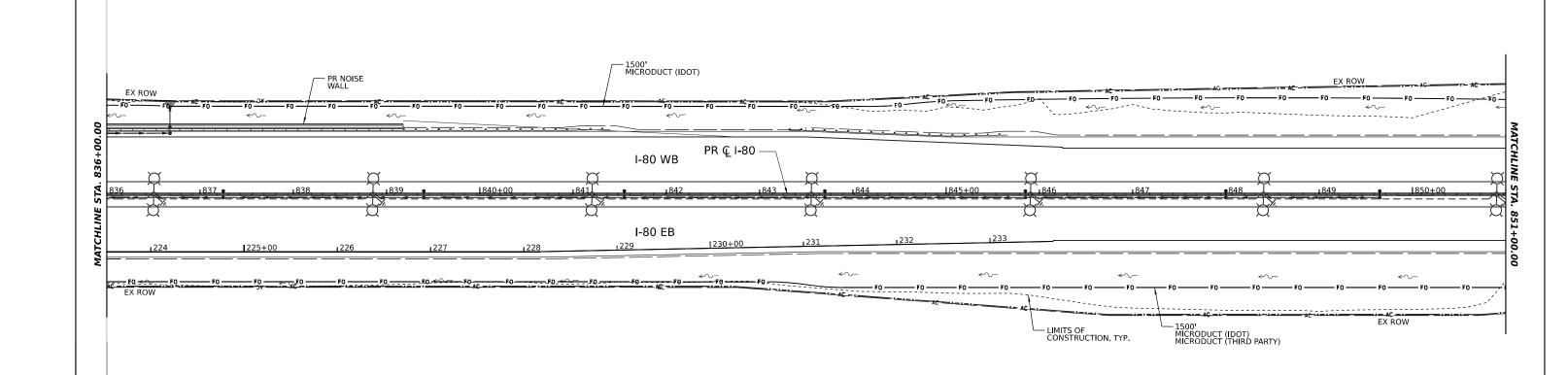
Tue	-5	
IIC		nart
100 S.	Nacker Dri	ve Suite 400
Chicago	, Illinois 6	0606

USER NAME = DMEIER	DESIGNED -	DJM	REVISED -
	DRAWN -	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED -	REL	REVISED -
PLOT DATE = 7/18/2023	DATE -	6/29/2023	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

I-80						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ITS INFRASTRUCTURE PLANS						FAI 80 21 STRUCTURE 8	WILL	899	530
		JIMINA	31110010	IL I LANS				CONTRACT	NO. 621	R29
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 821+00	TO STA. 836+00		ILLINOIS FED. A	ID PROJECT		



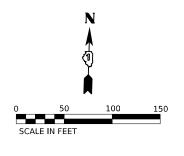


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100	S. Wa	cker D	rive S	uite 400
Chi	ago, II	linois	6060	6

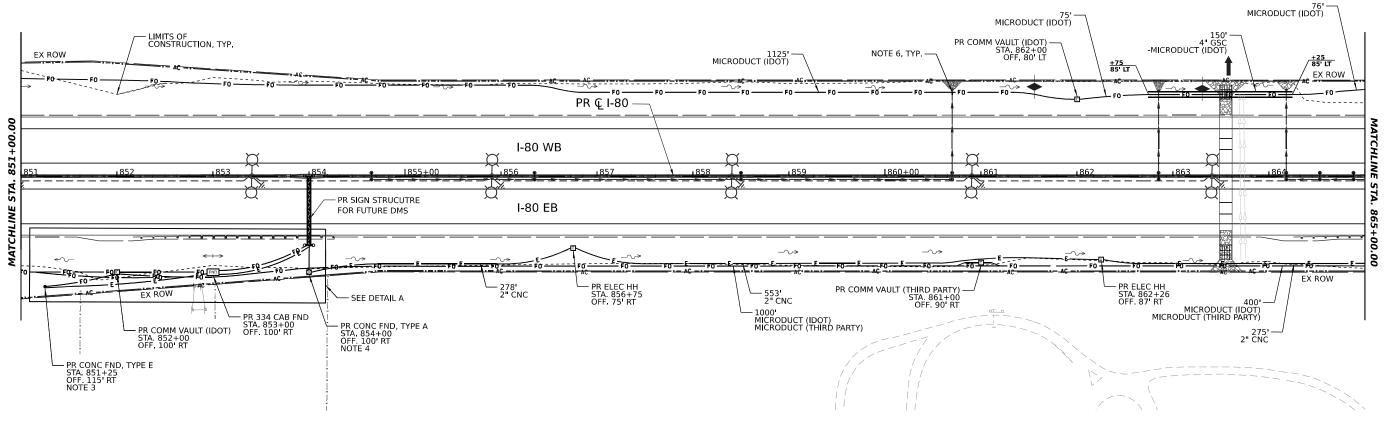
USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -	
	DRAWN	-	JNR	REVISED -	i
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -	ı
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -	i

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

I-80						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
ITS INFRASTRUCTURE PLANS							FAI 80 21 STRUCTURE 8	WILL	883	531
		o mina	31110010	IL I LANS				CONTRACT	NO. 621	329
SCALE: 1" = 50' SHEET OF SHEETS STA. 836+00 TO STA. 851+00							ILLINOIS FED. A	D PROJECT		



DETAIL A

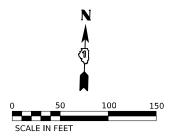


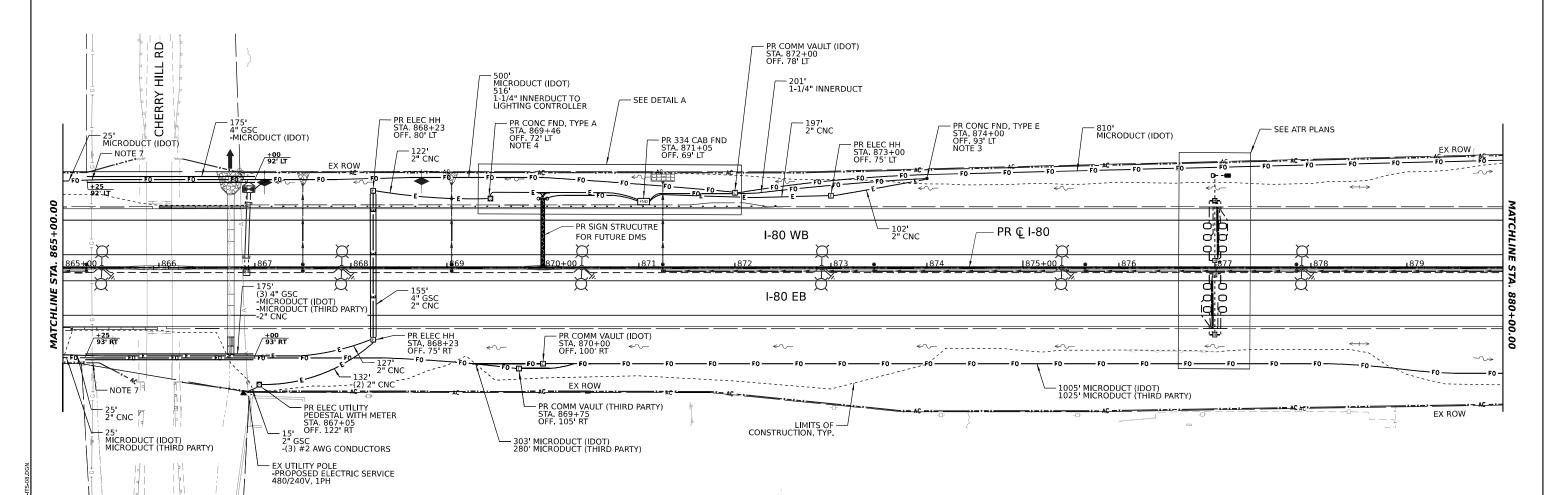
- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
- THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
- 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
- THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
 STUB UP AND CAP THE 2" CNC FROM TYPE A FOUNDATION AND ONE (1) 2" CNC FROM 334 CABINET
 FOUNDATION ABOVE GRADE AT THE OHSS FOUNDATION TO BE CONNECTED TO BY FUTURE CONTRACT.
 THE OTHER TWO (2) 2" CNC FROM THE 334 CABINET FOUNDATION SHALL BE COUPLED TO THE 2" OHSS
- COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYPE.

TranSmart*
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -

	I–80							COUNTY	TOTAL SHEETS	SHEET NO.
	ITS INFRASTRUCTURE PLANS						FAI 80 21 STRUCTURE 8	WILL	883	532
		3 IIII IIA	31110010	IL I LANS				CONTRACT	NO. 62	R29
SCALE: 1" = 50'	SCALE: 1" = 50' SHEET OF SHEETS STA. 851+00 TO STA. 865+00						ILLINOIS FED. A	D PROJECT		





- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
- THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
- 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT, 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
- THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.

 STUB UP AND CAP THE 2" CNC FROM TYPE A FOUNDATION AND ONE (1) 2" CNC FROM 334 CABINET
 FOUNDATION ABOVE GRADE AT THE OHSS FOUNDATION TO BE CONNECTED TO BY FUTURE CONTRACT.

 THE OTHER TWO (2) 2" CNC FROM THE 334 CABINET FOUNDATION SHALL BE COUPLED TO THE 2" OHSS STUBOUTS.
- COORDINATE INSTALLATION WITH DRAINAGE, MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

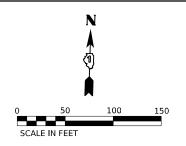
 4" NICOR GAS MAIN. INSTALL ITS MICRODUCT/CONDUIT WITH A MINIMUM 3' CLEARANCE TO GAS LINE OR
- AS SPECIFIED BY THE UTILITY.

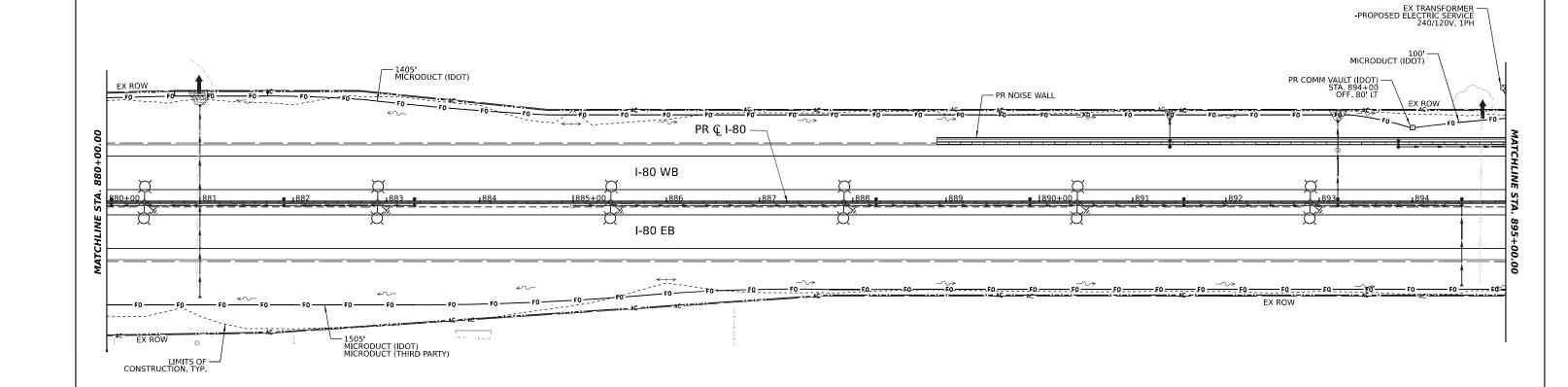
TranSmart"
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = DMEIER	DESIGNED - DJM	REVISED -
	DRAWN - JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED - REL	REVISED -
PLOT DATE = 7/18/2023	DATE - 6/29/2023	REVISED -

STATE	0F	ILLINOIS	
DEPARTMENT 0	FΤ	RANSPO	RTATION

	I–80							COUNTY	TOTAL SHEETS	SHEET NO.
ITS INFRASTRUCTURE PLANS							FAI 80 21 STRUCTURE 8	WILL	899	533
		3 IIIIIA	31110010	IL I LANS				CONTRACT	NO. 621	R29
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 865+00	TO STA. 880+00		ILLINOIS FED. A	D PROJECT		





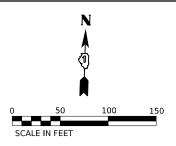
1. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

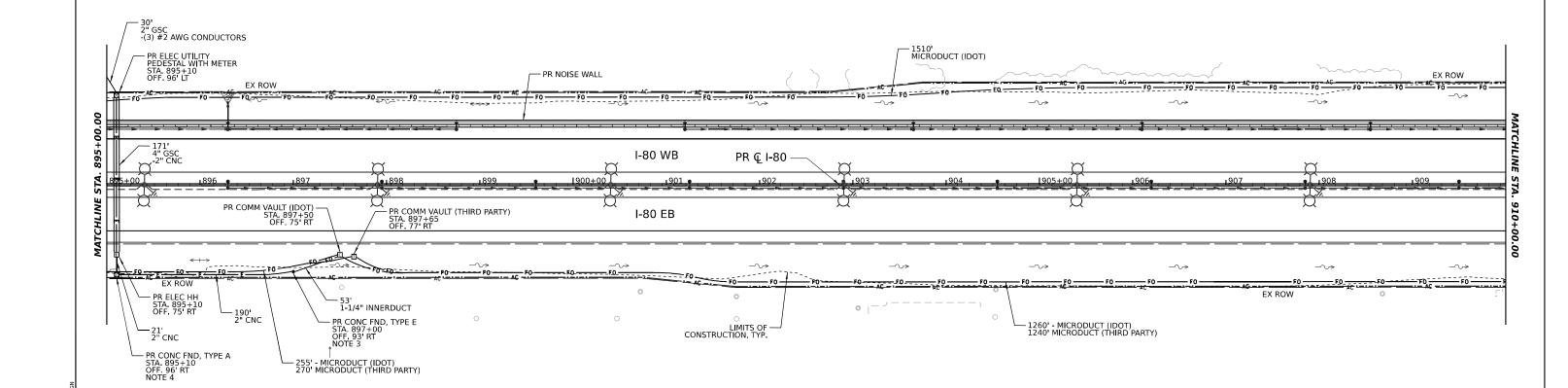
Transfer of the second
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 6/27/2023	DATE	_	6/29/2023	REVISED -

STATE OF ILLINOIS								
DEPARTMENT	OF	TRANSPORTATION						

	I-80 ITS INFRASTRUCTURE PLANS							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								FAI 80 21 STRUCTURE 8	WILL	883	534
								CONTRACT NO. 62R29			
ı	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 880+00	TO STA. 895+00	ILLINOIS FED. AID PROJECT				



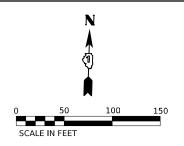


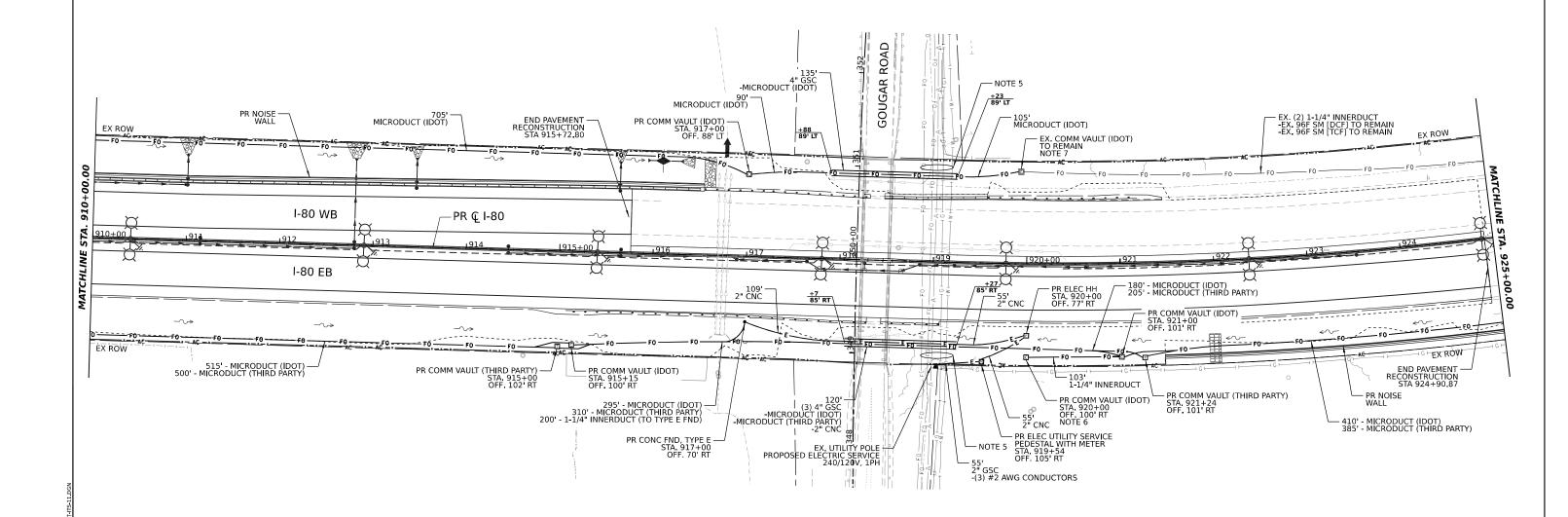
- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
 THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
- THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.

TranSmart"
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 / IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -

						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
ITS INFRASTRUCTURE PLANS							FAI 80 21 STRUCTURE 8	WILL	883	535
							CONTRACT NO. 62R			
SCALE: 1" - 50"	SHEET	OF	SHEETS	STA. 895+00	TO STA. 910+00		ILLINOIS FED. AID PROJECT			





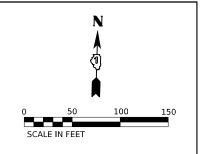
- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS,
 THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS,
 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT, 1-1/4"
 INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP
 THROUGH THE TOP OF THE FOUNDATION.
- THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
- MAINTAIN A MINIMUM 3' CLEARANCE FROM WATER LINE, GAS LINE, AND FIBER OR AS SPECIFIED BY THE
- VAULT FOR FUTURE WILL COUNTY CONNECTION.
- MICRODUCT SHALL ENTER THE EXISTING IDOT COMM VAULT FROM THE UNDERSIDE OF THE VAULT AND NO DRILLING SHALL BE ALLOWED.

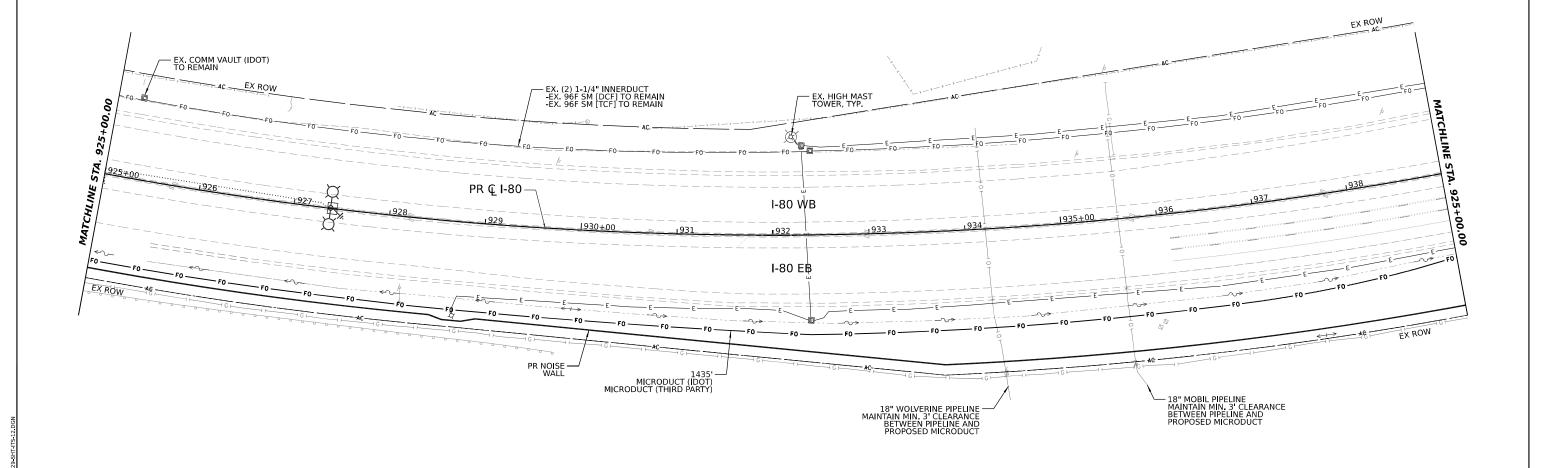
Troc Cook!"
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = DMEIER	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 7/18/2023	DATE	-	6/29/2023	REVISED -

STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

I–80							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IT	C INERA	STRUCTU	80	FAI 80 21 STRUCTURE 8	WILL	899	536		
		o intra-	SINUCIO	CONTRACT NO. 62						
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 910+00	TO STA. 925+00	ILLINOIS FED. AID PROJECT				



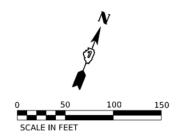


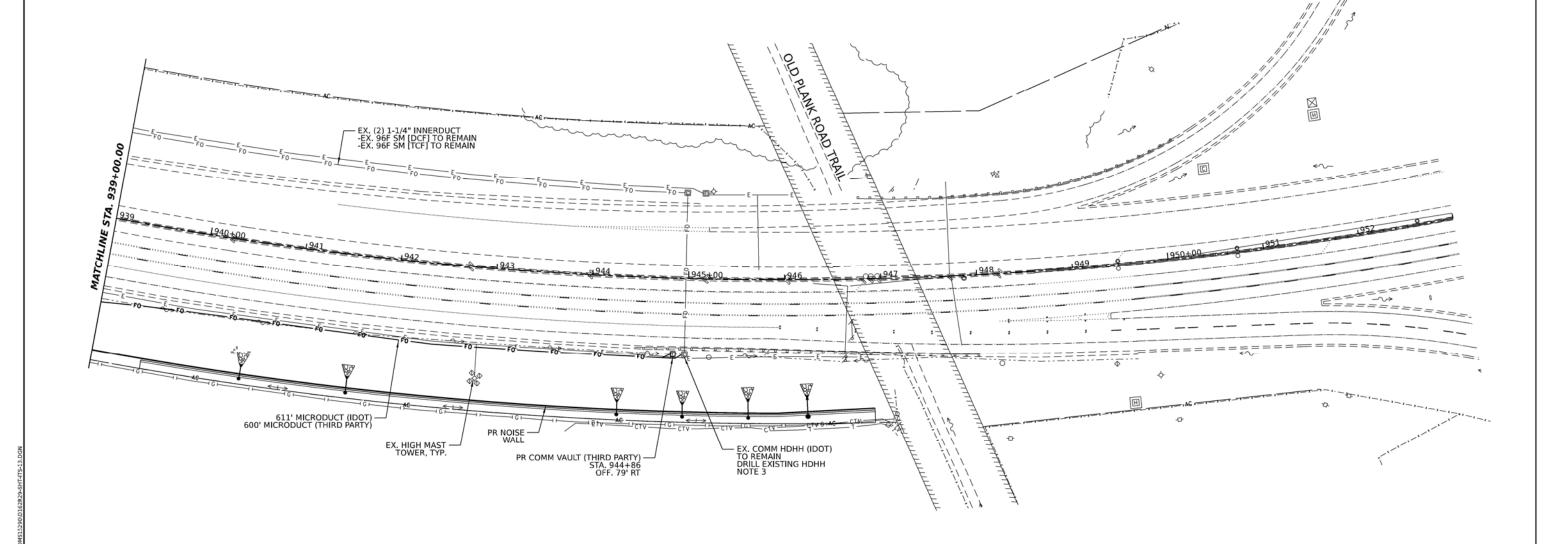
-	was Consult"
	ranSmart"
10	0 S. Wacker Drive Suite 400
Chi	icago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666633 '/ IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				I-80			F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı		IT	C INFRA	CTRIICTII	RE PLANS		80	FAI 80 21 STRUCTURE 8	WILL	883	537
ı			3 IIII IIA	31110010	IL I LANS				CONTRACT	NO. 621	R29
ı	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 925+00	TO STA. 939+00		ILLINOIS FED. AI	D PROJECT		





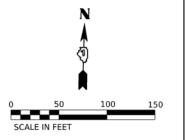
- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS.
 THIRD PARTY MICRODUCTSHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.

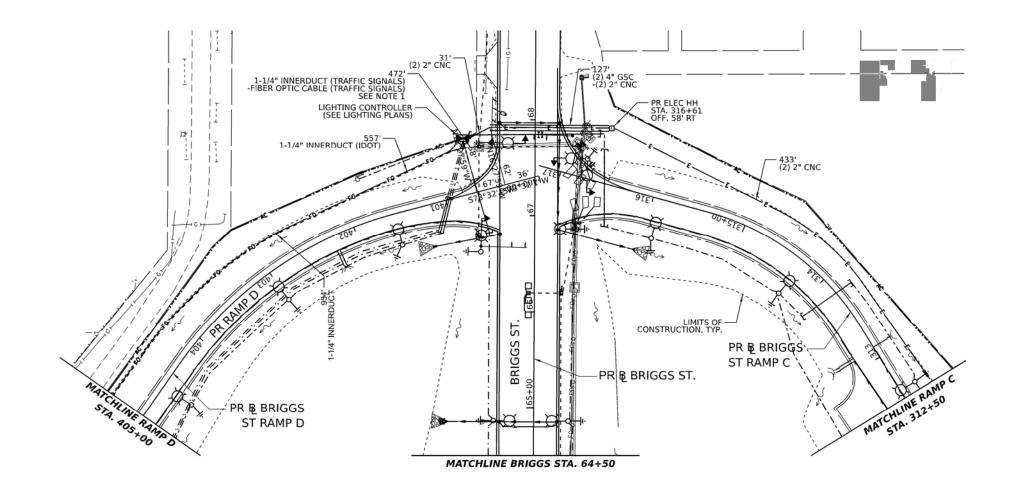
TranSmart*
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

	USER NAME = JMALCOLM	DESIGNED - DJM	REVISED -
nart"		DRAWN - JNR	REVISED -
Suite 400	PLOT SCALE = 0.16666633 ' / IN.	CHECKED - REL	REVISED -
000	PLOT DATE = 6/27/2023	DATE - 6/29/2023	REVISED -

STAT	E OI	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

				I-80			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı		IT	S INFRAS	TRUCTU	RE PLANS		80	80 FAI 80 21 STRUCTURE 8 WILL			538
ı			3 IIVI IIA3	INOCIO	IL FLANS				CONTRACT	NO. 621	R29
	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 939+00	TO STA. 953+00		ILLINOIS FED	AID PROJECT		





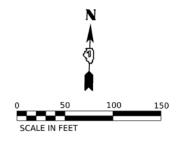
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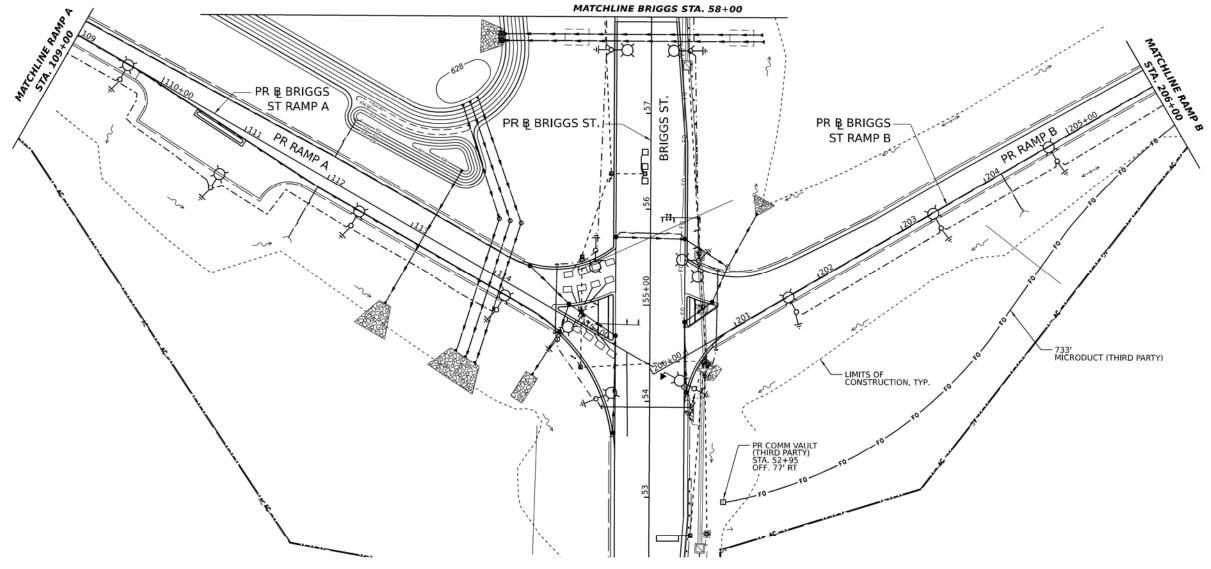
1. THE QUANTITY FOR FIBER OPTIC INNERDUCT 1-1/4" DIA. (X8710402) FROM THE COMMUNICATIONS VAULT AT RAMP D STA 410+00, 35' RT TO THE TRAFFIC SIGNAL HANDHOLE AT RAMP D STA 400+52, 45' RT IS REPRESENTED ON THE TRAFFIC SIGNAL PLANS. THIS FIBER OPTIC INNERDUCT 1-1/4" DIA. (X8710402) WILL HAVE A FIBER OPTIC CABLE INSTALLED, WHICH IS ALSO QUANTIFIED ON THE TRAFFIC SIGNAL PLANS.

TranSmart"
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -	
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED -	
	DRAWN	-	JNR	REVISED -	
USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -	

			I-80			F.A.I. RTE.	SECTION		COUNTY	SHEETS	SHEE NO.
ITS INFRASTRUCTURE PLANS						80	FAI 80 21 STRUCTURE	8	WILL	883	539
		3 INTINA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IL I LAIV	<u> </u>				CONTRACT	NO. 621	R29
SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AII	D PROJECT		





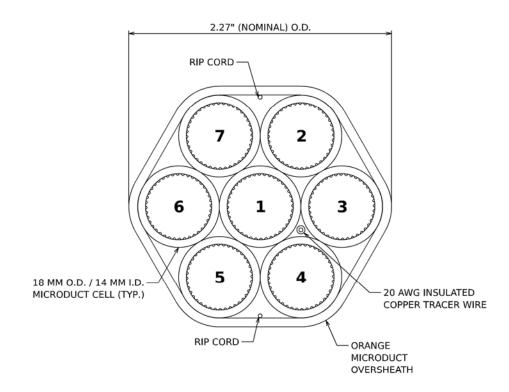
TranSmart"
100 S. Wacker Drive Suite 400 Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	\sim	DJM	REVISED	-
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	

STATE	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	N

SCALE: 1" = 50'

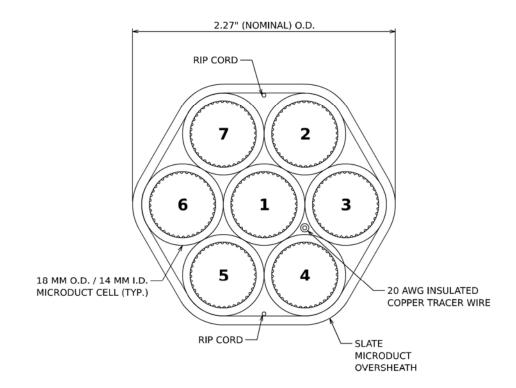
			I-80			F.A.I. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEE'
		ITS INFRAS	STRUCTU	RE PLAN	e e	80	FAI 80 21 ST	RUCTUR	E 8	WILL	883	540
_		III IIIIIA	31110010	IL ILAN	<u> </u>					CONTRACT	NO. 62	R29
	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



IDOT MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 IDOT (TCF)
2	ORANGE	FUTURE 144 IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE
		·

IDOT MICRODUCT CELL INFORMATION



THIRD PARTY MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 THIRD PARTY
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

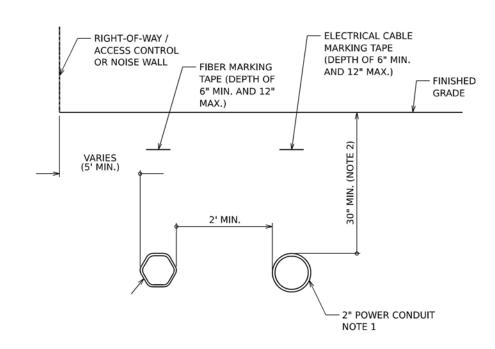
THIRD PARTY MICRODUCT CELL INFORMATION



USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED -
	DRAWN	-	JNR	REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	REL	REVISED -
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -

SCALE: NTS

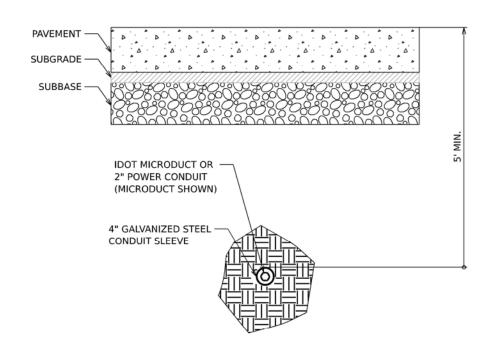
ITS INFRASTRUCTURE DETAILS					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	M	IICRODUC'	т		80	FAI 80 21 STRUCTURE 8	WILL	883	541
	101	IICHODOC	•				CONTRACT	NO. 62	R29
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



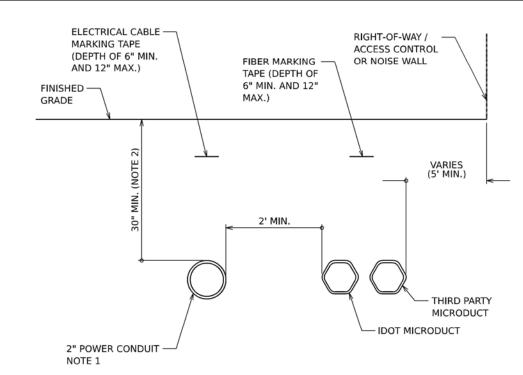
I-80 WESTBOUND TYPICAL CONDUIT SECTION

NOTES

- 1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
- GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



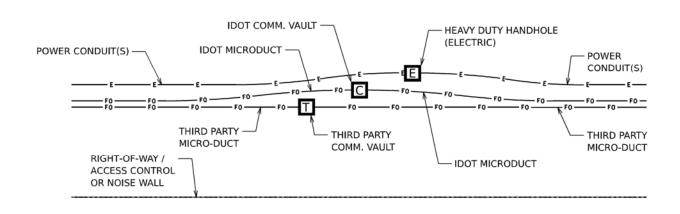
BORED CONDUIT UNDER ROADWAY



I-80 EASTBOUND TYPICAL CONDUIT SECTION

NOTES

- 1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
- GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO: ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



TYPICAL CONDUIT ROUTING AT HANDHOLES

NOTES

- INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION AND ROADWAY DIRECTION. EASTBOUND DIRECTION SHOWN ABOVE WITH POWER CONDUIT, IDOT MICRODUCT, AND THIRD PARTY MICRODUCT.
- 2. IDOT MICRODUCT SHALL ENTER IDOT COMMUNICATIONS VAULTS ONLY.

SCALE: NTS

. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

SHEET

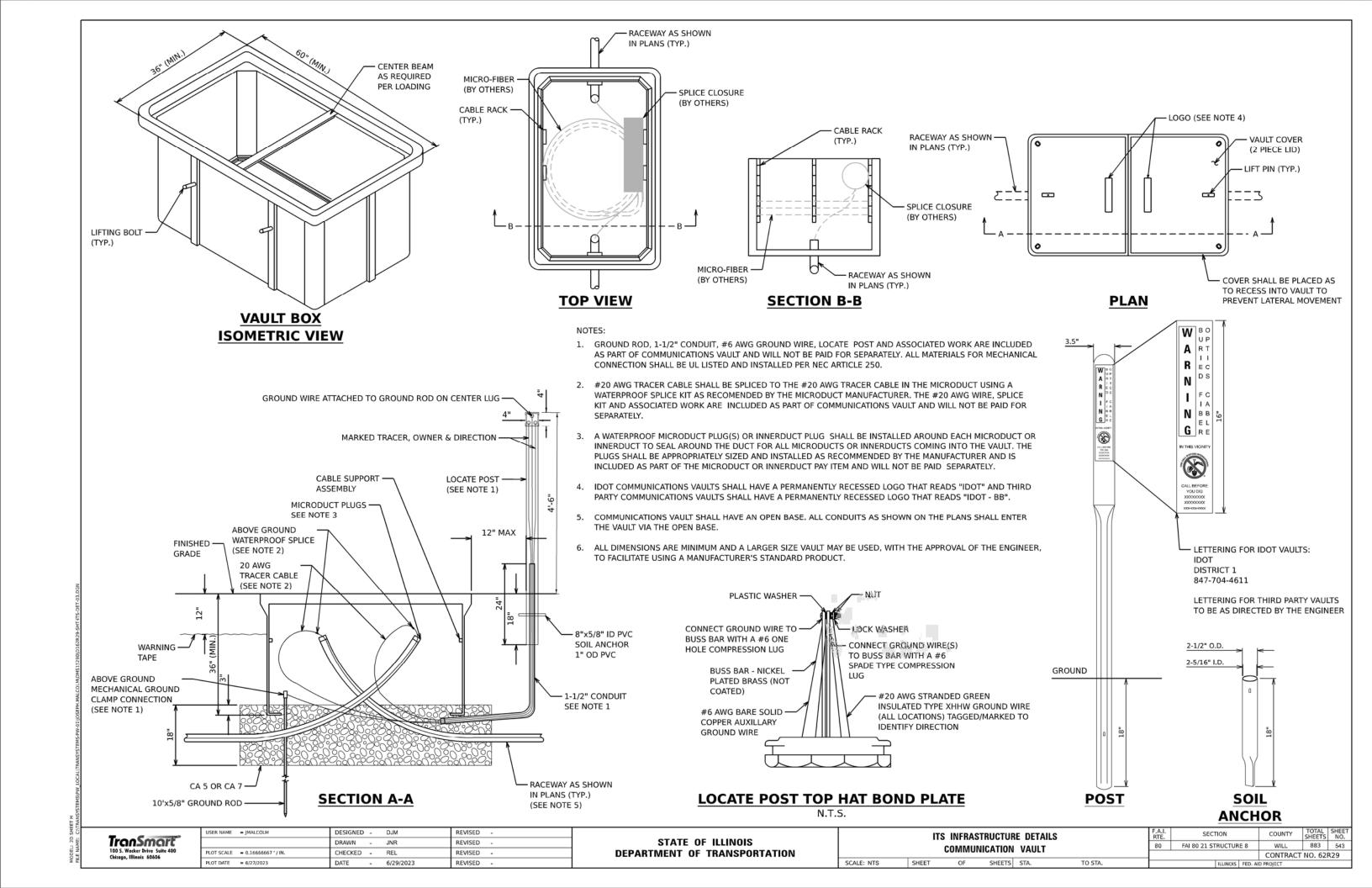
TranSmart

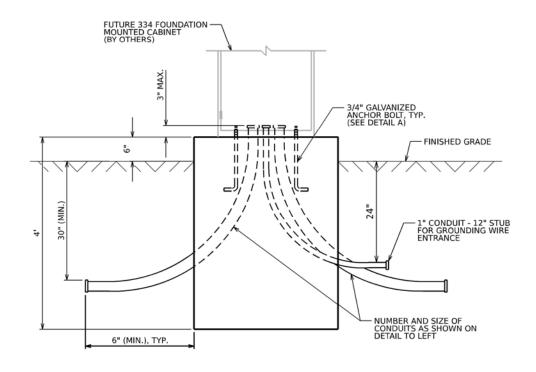
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED	
	DRAWN	-	JNR	REVISED	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	REL	REVISED	
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

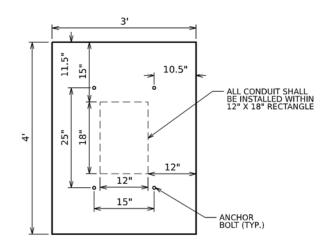
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS	INFRAS	TRUCTUR	E DETAIL	.s	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONDUIT ROUTING			80	FAI 80 21 STRUCTURE 8	WILL	883	542		
				CONTRACT	NO. 621	R29			
т	OF	SHEETS	STA.	TO STA.		ILLINOIS EED A	D DROIECT		





CONCRETE FOUNDATION FOR SURVEILLANCE CABINET MODEL 334 ELEVATION VIEW



DETAIL A CABINET FOUNDATION ANCHOR BOLT AND CONDUIT LAYOUT

CONCRETE FOUNDATION FOR SURVEILLANCE CABINET MODEL 334 ELEVATION VIEW

NOTES

- INSTALL FOUR 3/4 INCH DIAMERTER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE FUTURE CABINET BASES. THE ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED STEEL AND LOCATED AS SHOWN IN DETAIL A.
- CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.
- 3. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
- CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
- 5. CONCRETE MAINTENANCE PLATFORM AND CABINET FOUNDATION FOR CABINET SHALL BE MONOLITHIC POUR.
- . WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
- 7. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCHES.
- 8. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER
- 9. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

- O. CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
- 11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
- 12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
- 13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL BUSHINGS AND ALL NONMETALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.
- 14. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
- 16. CONCRETE BASE TO BE FORMED AT LEAST 6" ABOVE THE GROUND SURFACE.

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100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

DRAWN - JNR	USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED	-
		DRAWN	-	JNR	REVISED	
PLOT DATE = 6/27/2023 DATE - 6/29/2023 REVISED -	PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	REL	REVISED	
	PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	CONCRET		S INFRAS Dation, S			 MODEL 334	ı
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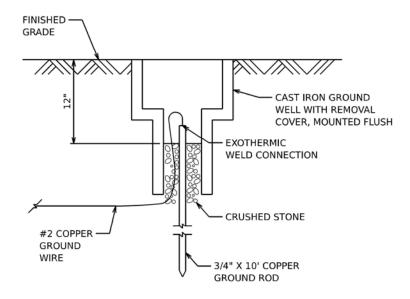
RTE.	SECT	TION		COUNTY	SHEETS	NO.
80	FAI 80 21 ST	RUCTUR	E 8	WILL	883	544
				CONTRACT	NO. 621	R29
		ILLINOIS	FED. AI	D PROJECT		

MODEL: 2D SHEET H

NAME: C.1 RANS

DMS SIGN STRUCTURE GROUNDING DETAIL

- 1. THE COST FOR GROUNDING OF THE DMS SIGN STRUCTURE SHALL BE INCLUDED AND PAID AS PART OF THE OVERHEAD SIGN STRUCTURE PAY ITEM.
- 2. CONTRACTOR SHALL TERMINATE THE GROUND COPPER WIRE TO OHSS GROUND LUG USING APPROVED CLAMPS FOR GROUNDING.
- 3. ONLY STUB OUT CONDUITS FOR GROUNDING SHOWN. OTHER CONDUITS FOR POWER OR COMMUNICATIONS ARE NOT SHOWN FOR CLARITY.



GROUND WELL DETAIL

TranSmart

JSER NAME = JMALCOLM DESIGNED - DJM REVISED DRAWN - JNR REVISED CHECKED -REL REVISED -PLOT DATE = 6/27/2023 DATE - 6/29/2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: NTS

ITS INFRASTRUCTURE DETAILS GROUNDING SHEETS STA. TO STA. SHEET OF

SECTION FAI 80 21 STRUCTURE 8 WILL 883 545 CONTRACT NO. 62R29

SERVICE PEDESTAL WITH METER

NOTES

SCALE: NTS

SHEET

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILTIY SERVICE INSTALLATION PAY ITEM.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY/CONDUCTORS AND NON-METALLIC CONDUITS TO POWER HANDHOLE SHALL BE MEASURED SEPARATELY FOR PAYMENT.
- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED. THE EXTERIOR SHALL HAVE TWO EPOXY FINISH COATS OF ANSI-61 GRAY. THE INTERIOR SHALL BE PAINTED WHITE.
- METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CABINET. PROVIDE A GATE IN ROW FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
- CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CABINET.
- METER HOUSING SHALL BE AS REQUIRED BY THE UTILITY.
- THE CABINET SHALL BE 36"H X 20"W X 15"D, FABRICATED FROM ALUMINUM WITH A MINIMUM THICKNESS OF .125", RATED NEMA TYPE 3R AND HAVE A MOUNTING BACK PLATE.
- THE CABINET DOOR SHALL HAVE A CONTINUOUS HINGE THAT IS BOLTED TO THE CABINET AND DOOR WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGE SHALL BE INSTALLED ON THE RIGHT SIDE WHEN FACING THE CABINET AND BE MADE OF STAINLESS STEEL WITH A 0.25 INCH DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER-PROOF, THE CABINET SHALL HAVE A GASKET THAT FORMS A WEATHER-TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE DOOR LATCHING MECHANISM SHALL BE THE 3-POINT DRAW ROLLER TYPE. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL BE FABRICATED FROM A 0.75" STAINLESS STEEL ROUND BAR AND SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION.
- 10. THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS, MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- 11. CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS. INTERIOR OF CABINET DOOR SHALL HAVE A PLASTIC POCKET FOR WIRING SCHEMATIC.
- 12. CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR
- 13. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE ASSEMBLED BY A UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR. THE PANEL ASSEMBLY SHALL BE UL LABELED AND SUITABLE FOR USE AS SERVICE EQUIPMENT.
- 14. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 15. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRCTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY. FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

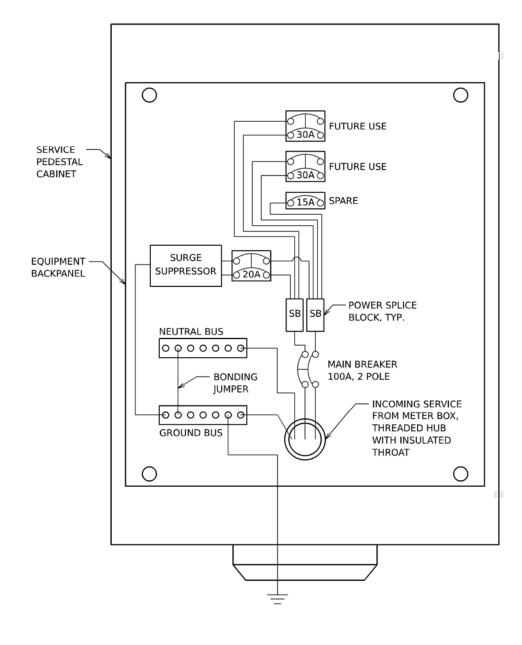
1	ranSmart*
ī	00 S. Wacker Drive Suite 400 hicago, Illinois 60606

DESIGNED - DJM JSER NAME = JMALCOLM REVISED DRAWN -JNR REVISED HECKED -REL REVISED PLOT DATE = 6/27/2023 DATE - 6/29/2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** ITS INFRASTRUCTURE DETAILS SERVICE METER PEDESTAL SHEETS STA. TO STA.

SECTION FAI 80 21 STRUCTURE 8 WILL 883 546 CONTRACT NO. 62R29

SWEEP ELBOW



SERVICE PEDESTAL CABINET WIRING AND EQUIPMENT LAYOUT FOR STATION: 783+69, 800+18, 895+10, 919+54

NOTES

- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
- 2. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 65,000 SYMETRICAL AMPERES AT 240V LINE TO LINE SERVICE OR 14,0000 AT 480V RATED AT LINE TO LINE SERVICE. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE INCOMING SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE CURRENT RATING OF 50,00 AMPS OR BETTER, RATED -40 TO 65 DEGREES C., WITH LED OPERATING IDICATORS, AND SHALL BE UL LISTED PER UL 1449. SURGE PROTECTOR SHALL BE WIRED FOR THE INCOMING SERVICE VOLTAGE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.

BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO

- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
- A PLASTIC LAMINATED CABINET LAYOUT DIAGRAM, CIRCUIT SCHEMATIC, AND BILL OF MATERIALS WITH CATALOG NUMBERS USED SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- EQUIPMENT IN DIAGRAMS ABOVE ARE NOT TO SCALE AND WIRING SCHEMATIC IS DIAGRAMMATIC. CONTRACTOR TO SUBMIT WIRING DIAGRAM AND EQUIPMENT LAYOUT FOR APPROVAL BY THE ENGINEER.

SCALE: NTS

SERVICE LOCATIONS

120/240V SERVICE LOCATIONS: STA 783+69, 119' RT STA 895+10, 96' LT STA 919+54, 105' RT

240/480V SERVICE LOCATION: STA 800+18, 119' RT STA 867 +05, 122' RT

Transmart

PLOT DATE = 7/25/2023	DATE	-	6/29/2023	REVISED	
PLOT SCALE = 0.166666667 ' / IN.	CHECKED	-	REL	REVISED	
	DRAWN	-	JNR	REVISED	
USER NAME = DMEIER	DESIGNED	-	DJM	REVISED	-

STATE OF ILLINOIS

CONNECTIONS.

ITS INFRASTRUCTURE DETAILS					
	METER	P	EDESTAL	WIRING	
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TO STA.

SERVICE PEDESTAL CABINET WIRING

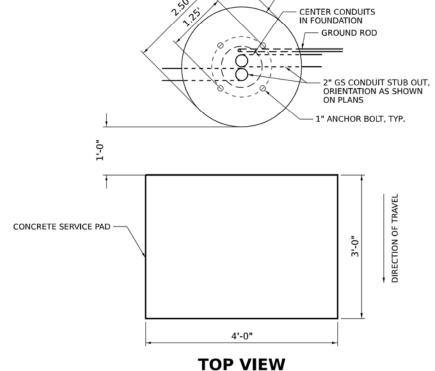
AND EQUIPMENT LAYOUT

FOR STATION: 867+05

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		CONTRACT	NO. 62	R29
80	FAI 80 21 STRUCTURE 8	WILL	899	547
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE

DEPARTMENT OF TRANSPORTATION

TOP VIEW TYPE A FOUNDATION FOR FUTURE **SERVICE DISCONNECT**

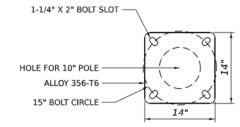


- CONCRETE FOUNDATION TYPE E

TYPE E FOUNDATION FOR FUTURE CCTV POLE

NOTES

TOP VIEW FOR CONCRETE FOUNDATIONS, TYPE A AND E SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION AND ANOCHOR BOLT CIRCLE DIMENSIONS REQUIRED FOR FUTURE EQUIPMENT INSTALLATION. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11 (CONCRETE FOUNDATION DETAILS).



SCALE: NTS

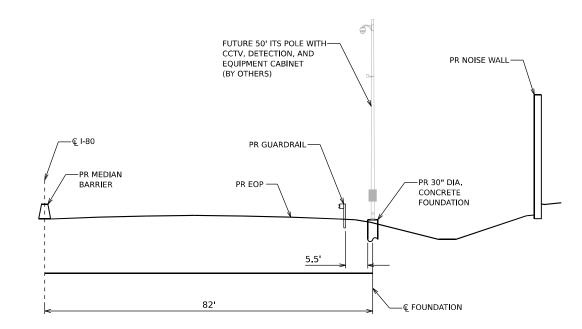
FUTURE CCTV POLE BASE PLATE DETAIL 15" BOLT CIRCLE (SHOWN FOR REFERENCE ONLY)

TranSmart

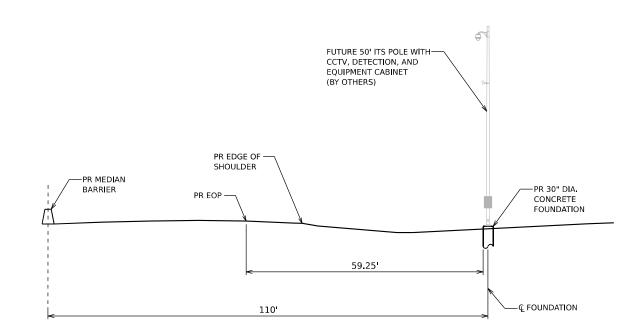
USER NAME = JMALCOLM	DESIGNED	-	DJM	REVISED	
	DRAWN	-	JNR	REVISED	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	REL	REVISED	
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	IT	S INFRAS	TRUCTUR	E DETAI	LS	F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
	CONCRETE FOUNDATIONS					80	FAI 80 21 STRUCTUR	E 8	WILL	883	548
									CONTRACT	NO. 621	R29
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		



STA 782+50 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION

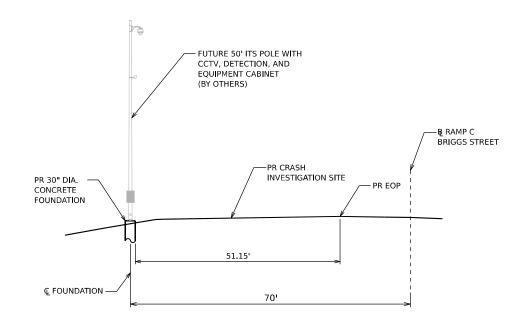


STA 806+60 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION

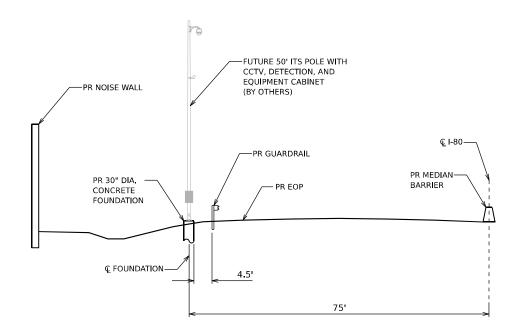
*exp.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:



RAMP C, STA 311+75
(LOOKING WEST)
30" DIA. CONCRETE FOUNDATION

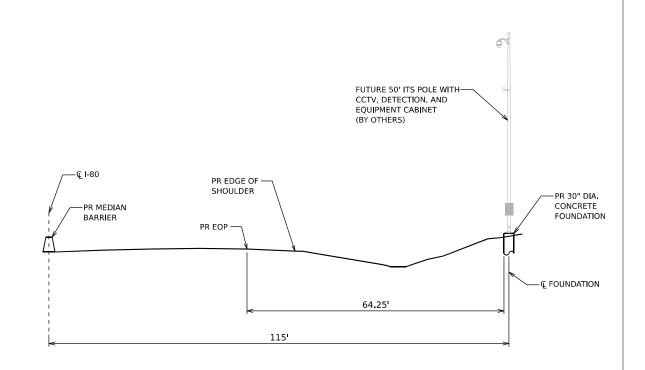


STA 829+78 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION

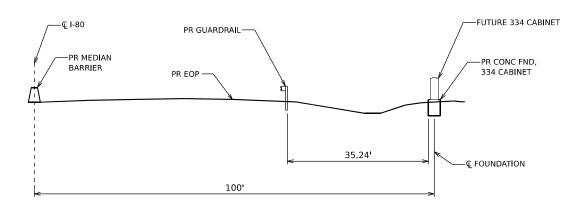
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| Total Sheet | Fall Section | Fall Sheet | Fall Section | Fall Sheet | Fal



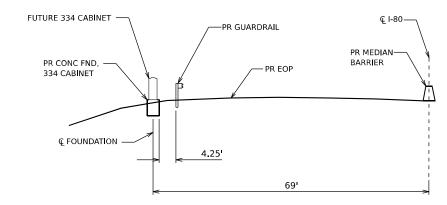
STA 851+25 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION



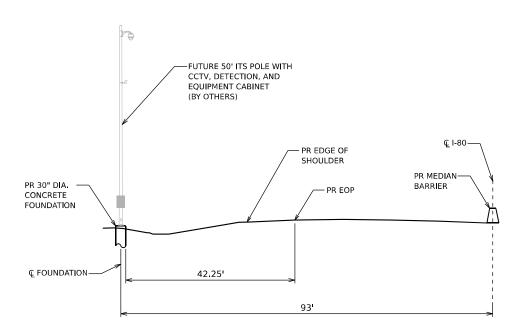
STA 853+00 (LOOKING EAST) 334 CABINET FOUNDATION

*exp.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



STA 871+05 (LOOKING EAST) 334 CABINET FOUNDATION



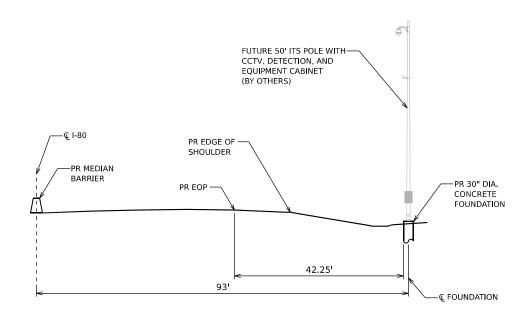
STA 874+00 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION

*exp.

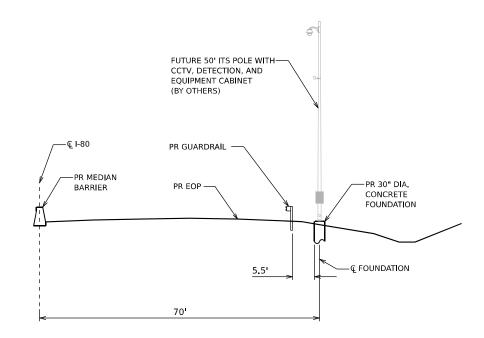
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

| F.A.I. | SECTION | COUNTY | SHEET | STALE | SHEET |



STA 897+00 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION



STA 917+00 (LOOKING EAST) 30" DIA. CONCRETE FOUNDATION

*exp.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

- ALL HANDHOLE LIDS SHALL READ: "IDOT OPP"
- COORDINATE EMBEDDED LOOP INSTALLATION WITH ROADWAY PAVEMENT INSTALLATION.
- CONTRACTOR SHALL DOCUMENT LOCATION OF EMBEDDED LOOPS DURING INSTALLATION IN ORDER TO ACHIEVE PROPER OFFSET OF PIEZO SENSORS DURING THEIR SUBSEQUENT INSTALLATION.
- DETAIL A SHOWS TYPICAL DIMENSIONS APPLICABLE TO WHOLE SITE.
- CONTRACTOR SHALL COORDINATE WITH IDOT FOR THE REMOVAL OF THE EXISTING TRAFFIC COUNTER AND BATTERY WITHIN THE EXISTING ATR STATION CABINET. IDOT SHALL INSTALL THE NEW TRAFFIC COUNTER WITHIN THE NEW ATR STATION CABINET.
- IDOT REPRESENTATIVE SHALL BE PRESENT DURING INSTALLATION OF THE ATR SITE.

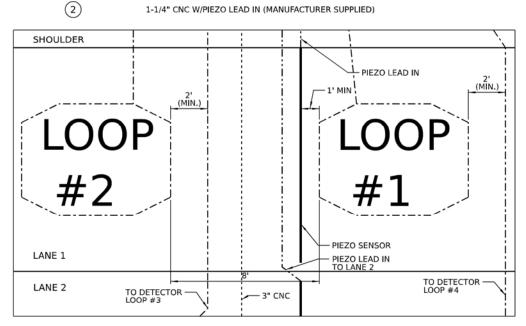
BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 $1/4$ " DIA.	FOOT	138
81028770	UNDERGROUND CONDUIT. COILABLE NONMETALLIC CONDUIT. 3" DIA.	FOOT	166
81400200	HEAVY-DUTY HANDHOLE	EACH	4
86300300	CONTROLLER CABINET TYPE III	EACH	1
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4
88600100	DETECTOR LOOP, TYPE I	FOOT	76
88600300	DETECTOR LOOP, TYPE III	FOOT	558
X0301242	PIEZO AXLE SENSOR, CLASS II	FOOT	69
X0323388	TRAFFIC COUNTER	EACH	2
X0327116	SOLAR POWER ASSEMBLY	EACH	1
X8730810	ELECTRIC CABLE IN CONDUIT, CONOGA-30003	FOOT	1,226

LEGEND

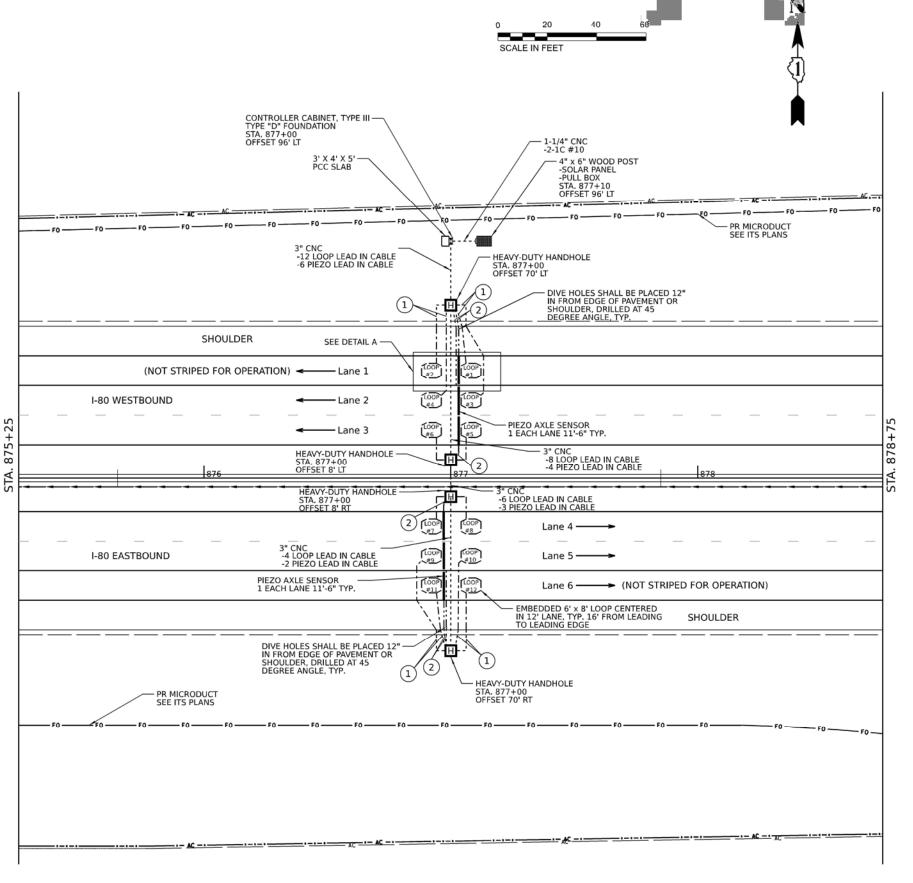
-----CONDUIT (TYPE AND SIZE AS NOTED) PIEZO SENSOR DETECTOR LOOP, TYPE I DETECTOR LOOP, TYPE III 1 1-1/4 CNC W/LOOP LEAD IN

1-1/4" CNC W/PIEZO LEAD IN (MANUFACTURER SUPPLIED)



DETAIL A

N.T.S.



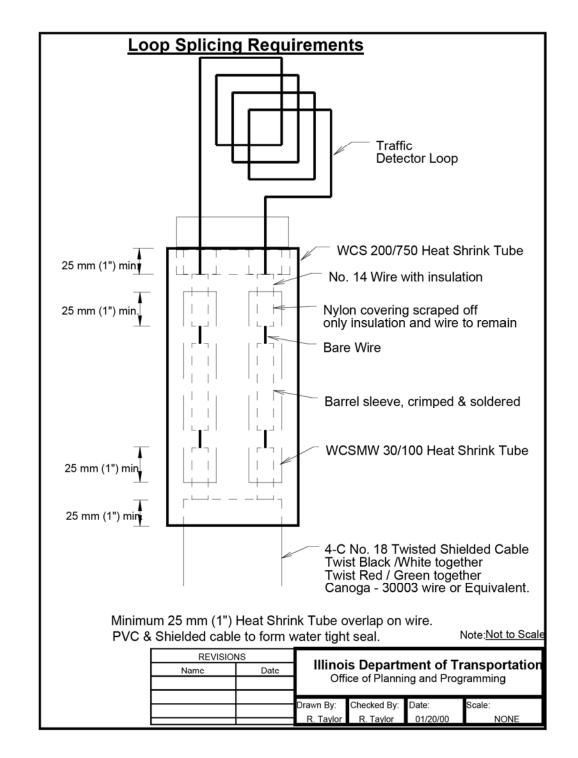
TranSmart

USER NAME = JMALCOLM	DESIGNED	~	DJM	REVISED	-
	DRAWN	-	JNR	REVISED	-
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

SCALE: NTS

SHEET

ATR PLANS		F.A.I. RTE.	SECT	SECTION		COUNTY	SHEETS	SHEE NO.		
				80	FAI 80 21 ST	RUCTUR	E 8	WILL	883	554
								CONTRACT	NO. 62	R29
OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AII	D PROJECT		



Transmart

100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

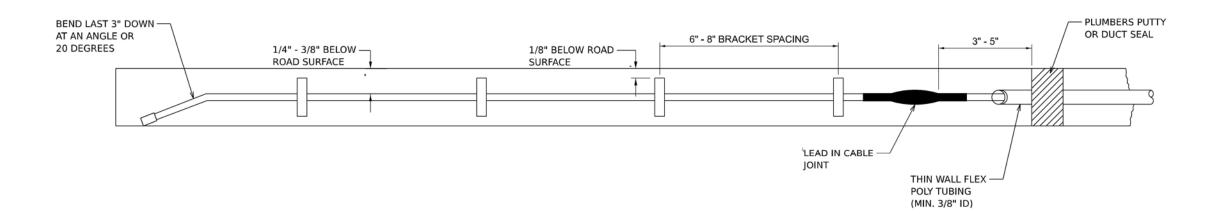
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	DRAWN	-	JNR	REVISED	
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	REL	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	-

STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

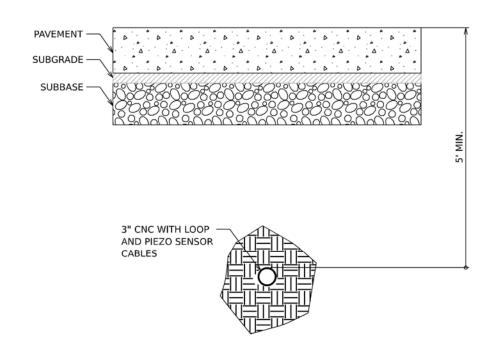
ATR PLANS							SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						80	FAI 80 21 STRUCTURE 8	WILL	883	555
								CONTRACT	NO. 62	R29
SCALE: NTS SHEET OF SHEETS STA. TO STA.							ILLINOIS FED	AID PROJECT		

CALITRANSYSTEMS-PW-01\JOSEPH.MALCOLM\DMS15290\D:

TILE NAME: CATAMINATATE



PIEZO DETAIL



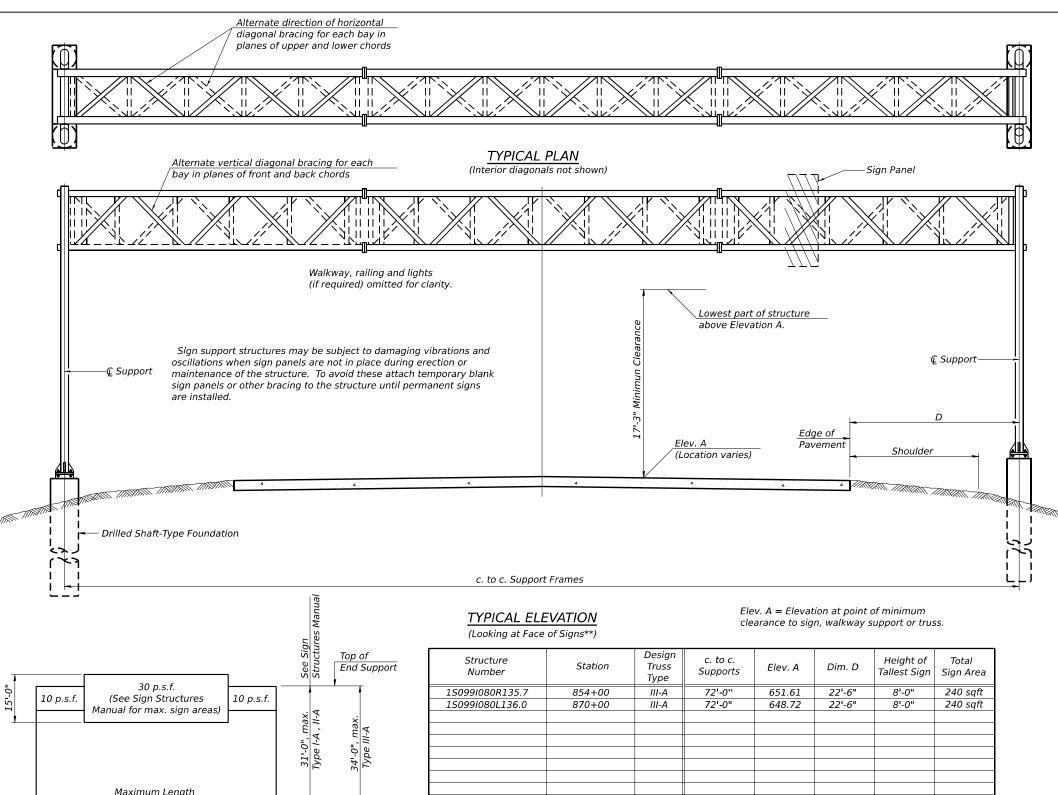
BORED CONDUIT UNDER ROADWAY

TranSmart"	
100 S. Wacker Drive Suite 400	
Chicago, Illinois 60606	

	USER NAME = JMALCOLM	DESIGNED - DJM	REVISED -
rt"		DRAWN - JNR	REVISED -
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	PLOT DATE = 6/27/2023	DATE - 6/29/2023	REVISED -

STATE	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATI	ON

I	ATR PLANS							SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ı								FAI 80 21 ST	RUCTUR	E 8	WILL	883	556
١											CONTRACT	NO. 62	R29
	SCALE: NTS	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJE			D PROJECT	r	



(See Sign Structures Manual) DESIGN WIND LOADING DIAGRAM

c. to c. Support Frames

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
15099I080R135.7	854+00	III-A	72'-0''	651.61	22'-6"	8'-0"	240 sqft
15099I080L136.0	870+00	III-A	72'-0"	648.72	22'-6"	8'-0"	240 sqft

^{**}Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Field Units fc = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Artie 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Evebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

FOUNDATION REMOVAL: Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

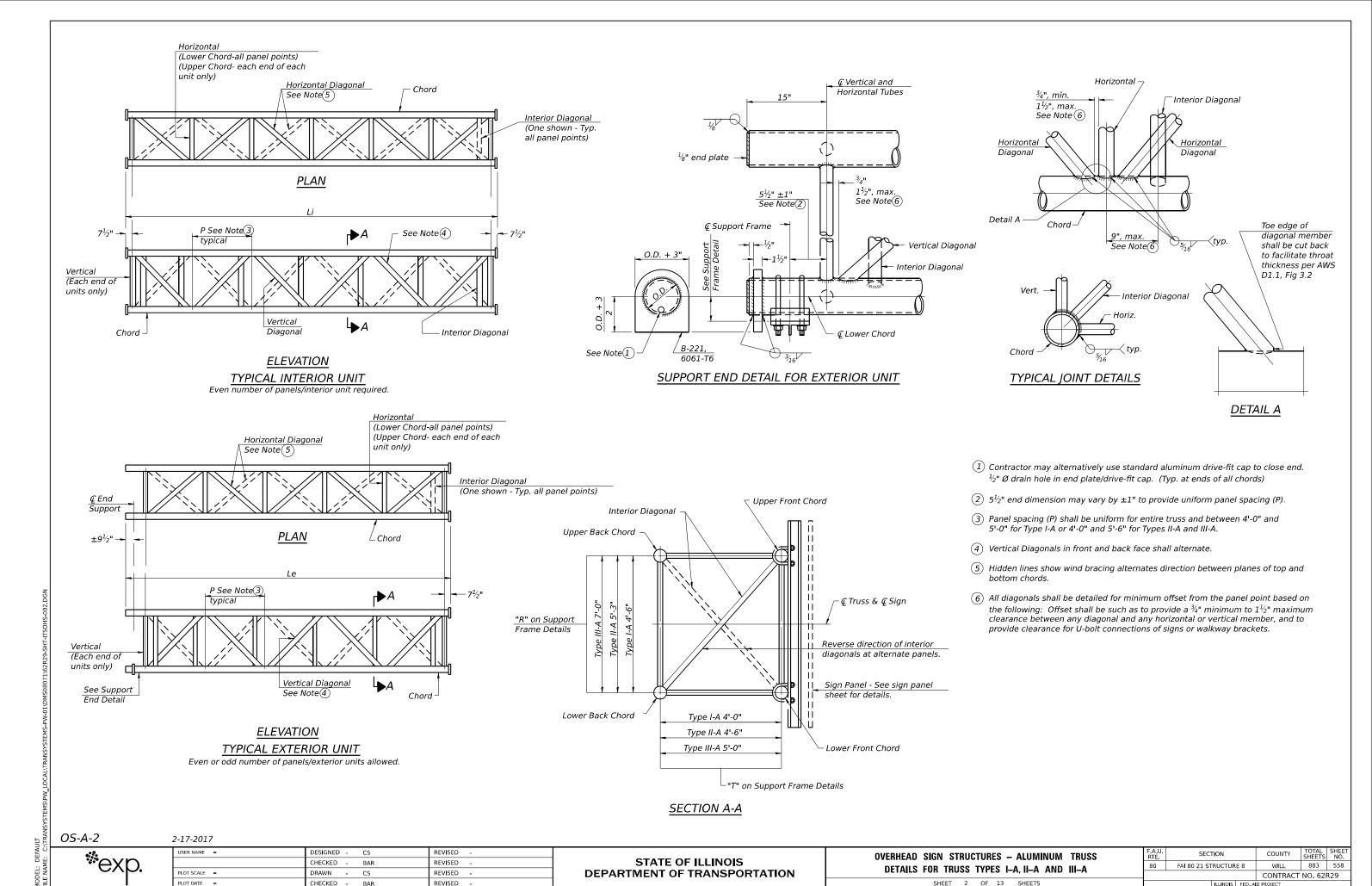
ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	Foot	144
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	78
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	56.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	2
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	8

USER NAME =	DESIGNED	-	CS	REVISED -
	CHECKED	-	BAR	REVISED -
PLOT SCALE =	DRAWN	-	CS	REVISED -
PLOT DATE =	CHECKED	-	BAR	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

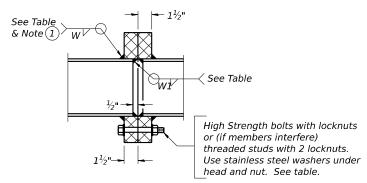
OVERHEAD SIGN STRUCTURES - GENERAL PLAN & **ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS** SHEET 1 OF 13 SHEETS

SECTION FAI 80 21 STRUCTURE 8 WILL 883 557 CONTRACT NO. 62R29



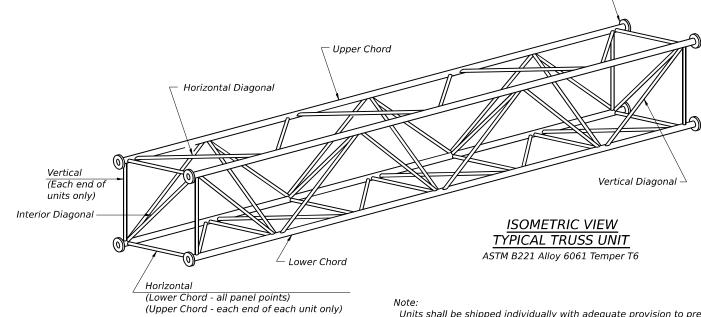
6/27/202

Structure	Design Exterior Units (2) Interior Unit Upper & Lower Ve			Horizontals; Horizontal,	Camber at	Splicing Flange															
Number	Station	Truss Type	No. Panels	Unit	Panel	No.	No. Panels	Unit	Panel	Cn	ora	and Interio	or Diagonals	Midspan	Bolt.	S	Weld	Sizes		В	
		Type		per Unit	Lgth.(Le)	Lgth.(P)	Req'd.	per Unit	Lgth.(Li)	Lgth.(P)	O.D.	Wall	O.D.	Wall	maspan	No./Splice	Dia.	W	W1		ь
1S099I080R135.7	854+00	III-A	7	36'-10 ¹ / ₂ "	5'-0"	0				7"	⁵ ⁄ ₁₆ "	31/4"	5/16"	7/8"	6	1"	7/16"	5/16"	11½"	15"	
15099I080L136.0	870+00	III-A	7	36'-10 ¹ / ₂ "	5'-0"	0				7"	⁵ ⁄16"	31/4"	5⁄ ₁₆ "	7/8"	6	1"	7/ ₁₆ "	⁵ / ₁₆ "	11½"	15"	



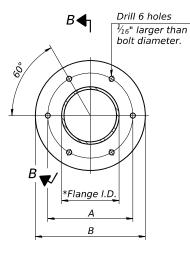
SECTION B-B

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.

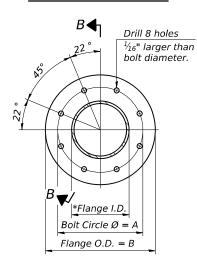


Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the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

Splicing Flange



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



TRUSS TYPES II-A & III-A

SPLICING FLANGES

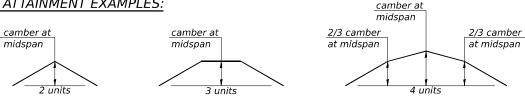
ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".

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

CAMBER DIAGRAM

c to c of support frame

CAMBER ATTAINMENT EXAMPLES:



Camber required See table.

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

OS4-A-2

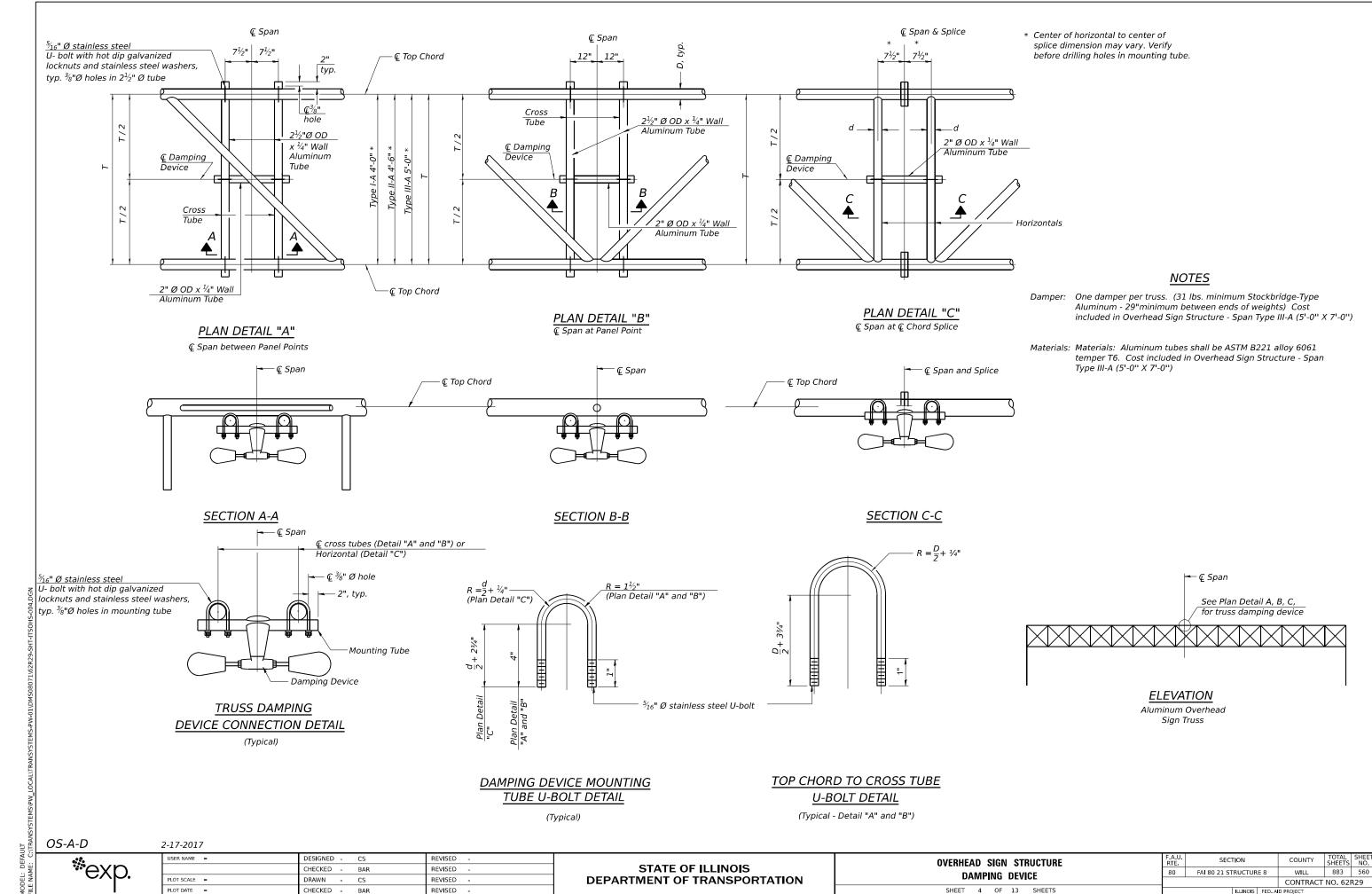
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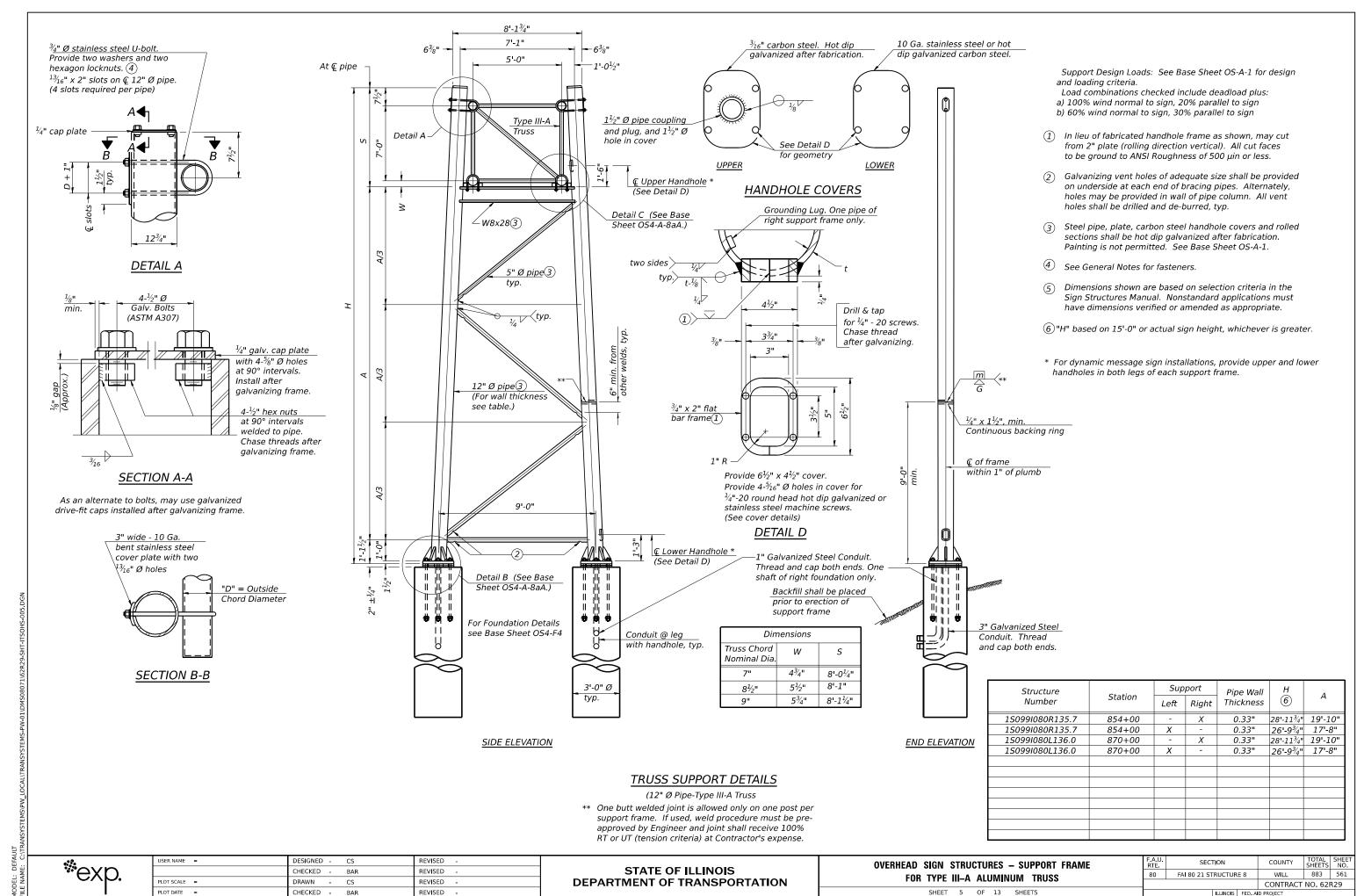
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD	 		_		JMINUM -A AND	 DETAILS	
	SHEET	3	OF	13	SHEETS		

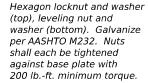
F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 8	WILL	883	559
		CONTRACT	NO. 62	R29
	ILLINOIS FED. A	ID PROJECT		

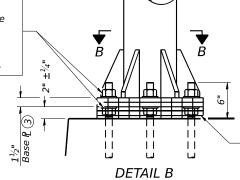


6/27/2023



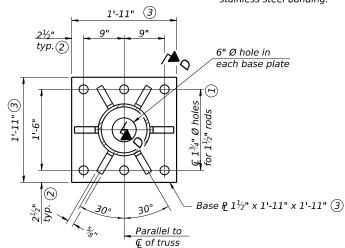
6/27/2023



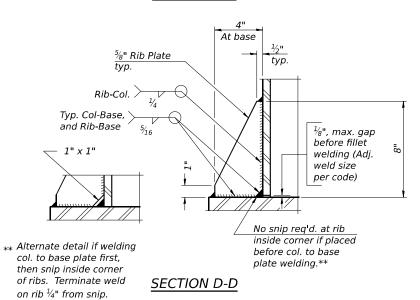


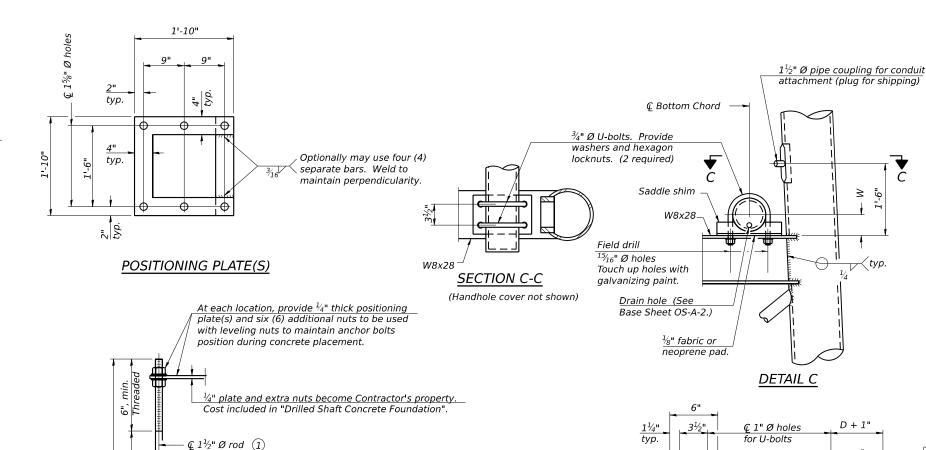
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, $\frac{1}{4}$ " maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with $\frac{3}{4}$ " stainless steel banding.



SECTION B-B





ANCHOR ROD DETAIL

Provide 1 nut

lock to secure.

per rod. Deform thread

or use chemical thread

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

AII Thread = NC

(National Coarse)

TYPE III-A TRUSS 12" Ø PIPE SUPPORT FRAME DETAILS

150 ft, and up to 160 ft.:

SADDLE SHIM DETAIL

 $D + 3\frac{1}{2}$ "

WILL

883 562

ASTM B26 Alloy 356-F

 $*R = \frac{D}{2} + \frac{1}{32}$ at 90°

D = Outside Diameter of Chord.

For W, see Base Sheet OS-A-6.

ASTM B209 Alloy 6061-T651 (4 required per sign truss)

For Type III-A Truss spans greater than

- 1 3 /₄" Ø rod, 2" Ø holes
- 2) 2³/₄" edge distance
- (3) Base $\frac{1}{8}$ " x 1'-11 $\frac{1}{2}$ " x 1'-11 $\frac{1}{2}$ "

OS4-A-8aA

2-17-2017



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION **OVERHEAD SIGN STRUCTURES** FAI 80 21 STRUCTURE 8 SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS CONTRACT NO. 62R29 SHEET 6 OF 13 SHEETS

Truss Chord

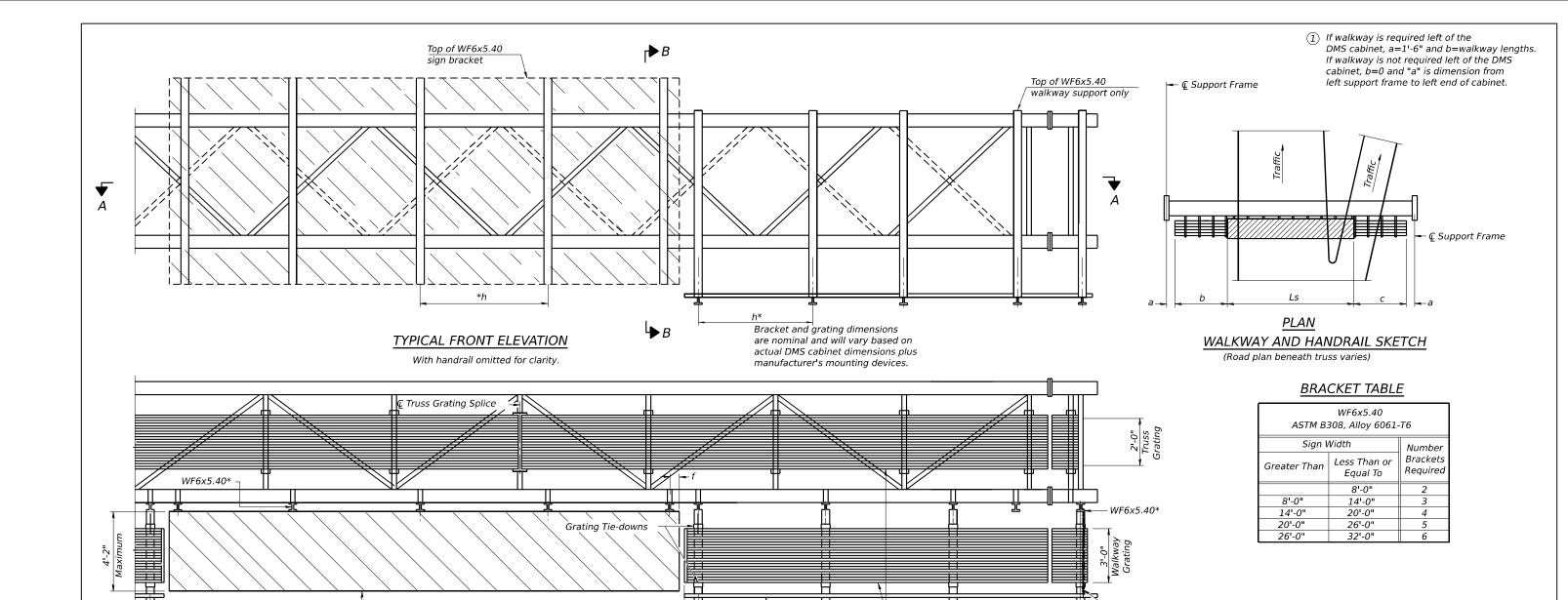
8½"

9"

Nominal Dia.

11/4"

13%"



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

SECTION A-A

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

Standard Aluminum Grating

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. Grating and handrail splices placed as needed.

Structure Number	Station	а	b	С	Ls	Walkway Grating and Handrail Lengths
1S099I080R135.7	854+00	1'-6"	15'-0"	24'-0"	30'-0"	39'-0"
15099I080L136.0	870+00	1'-6"	15'-0"	24'-0"	30'-0"	39'-0"

Handrail, see OS-A-11-DMS

Notes:

Safety Chain

- * Space walkway brackets WF6x5.40 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket) g = 12" maximum, 4" minimum (End of walkway grating to € of nearest support bracket)
- h = 6'-0" maximum (\mathbb{Q} to \mathbb{Q} sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS. For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS

2-17-2017

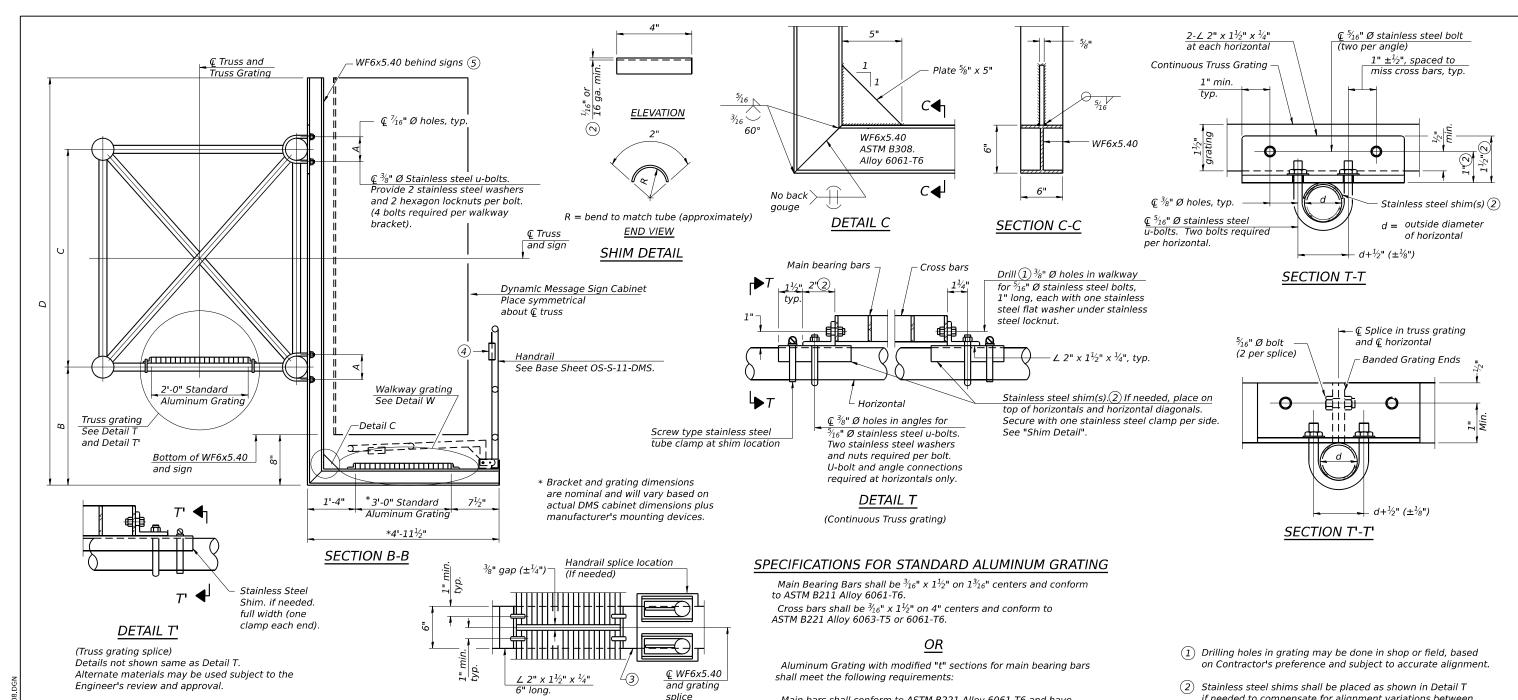
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- Dynamic Message Sign Cabinet

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES	F.A.U. RTE	SECTION		
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS	80	FAI 80 21 STRUCTURE 8	3	
ALIENWATE ALOMINOM WALKWAT DETAILS TON DIMO				
SHEET 7 OF 13 SHEETS		III INOIC 5	ED 41	

COUNTY WILL 883 563 CONTRACT NO. 62R29



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 $1\frac{1}{2}$ ", spaced on $1\frac{3}{16}$ " centers.

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

Structure Number	Station	А		С	6 _D
1S099I080R135.7	854+00	7½"	1'-2"	7'-0"	8'-8"
1S099I080L136.0	870+00	7½"	1'-2"	7'-0"	8'-8"

- 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.
- \bigcirc If Handrail Joint present, weld angle to WF(A-N)4 and 1 4" extension bars. (See Base Sheet OS-A-11-DMS.)
- (4) $R^{\frac{1}{8}}$ " $x^{\frac{1}{2}}$ " x 2" welded to handrail posts to protect . locations that contact grating.
- (5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- (6) Based on actual height of tallest sign given on OS-A-1.

₩	$ \overline{\psi} $			Structure Number	Station	А		С	6 _D
			 	1S099I080R135.7	854+00	7½"	1'-2"	7'-0"	8'-8"
		I		1S099I080L136.0	870+00	7½"	1'-2"	7'-0"	8'-8"
<u> </u>		∠ 2" x 1½" x ¼"							
. /		$2^{1/2}$ " long at continuous grating,							
		6" long at grating splices.	∠ 2" x 1½" x ¼"						
/ ,3 sides		, a verigina graning aprices.	2½" long						
typ. (3)									
3/16			(CONTINUOUS WALKWAY GRATING)						
DETA	II W		CECTION W. W.						
DETA	<u> </u>		SECTION W-W						
(Walkwa)	y grating)								

(AT WALKWAY GRATING SPLICE)

(Shown)

Continuous handrail hinge

OS-A-10-DMS

2-17-2017

Grating width plus 1/8"

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 $Drill(1)^{3}$ %" Ø holes in walkway

for 5/16" Ø stainless steel bolts,

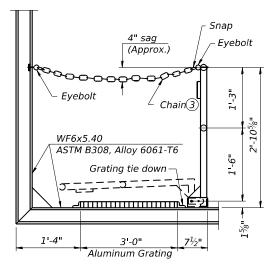
1" long, each with one stainless

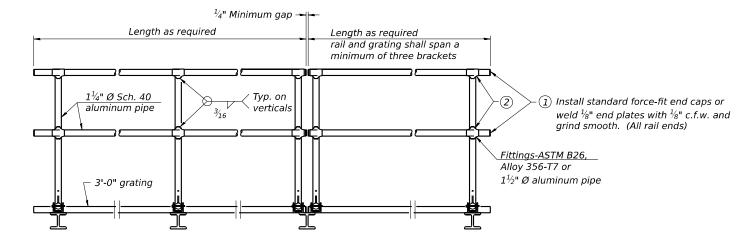
steel locknut and two stainless

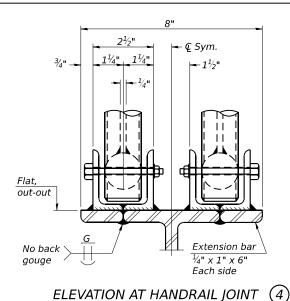
steel flat washers.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES LTERNATE ALUMINUM WALKWAY DETAILS FOR DMS	F.A.U. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
NITEDNIATE ALLIMINIUM WALKWAY DETAILS FOR DMS		FAI 80 21 STRUCTURE 8		WILL	883	564
ALIENNATE ALONINION WALKWAT DETAILS FOR DING				CONTRACT	NO. 62F	₹29
SHEET 8 OF 13 SHEETS		ILLINOIS	FED. A	D PROJECT		





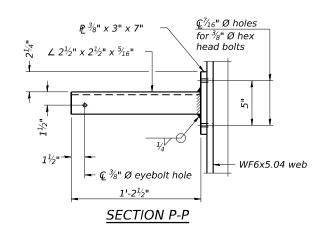


SIDE ELEVATION

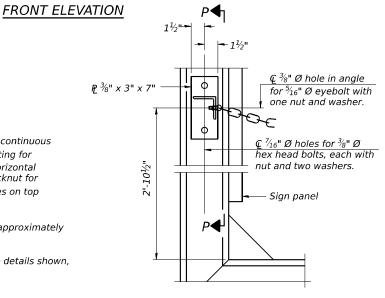
(Showing safety chain w/o sign)

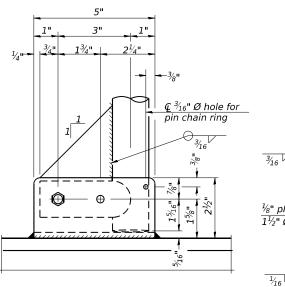
HANDRAIL DETAILS

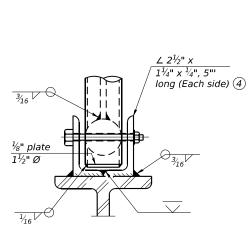
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



- 2 Horizontal handrail member shall be continuous thru fitting. Provide $\frac{7}{16}$ " Ø hole in fitting for $^{3}\!\!_{8}$ " Ø bolt. Field drill $^{7}\!\!_{16}$ " Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use $^5\!\!1_6$ " eyebolts in $^7\!\!1_6$ " Ø holes on top rail at ends only.)
- 3 36" type 304L stainless steel chain, approximately 12 links per foot.
- (4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.





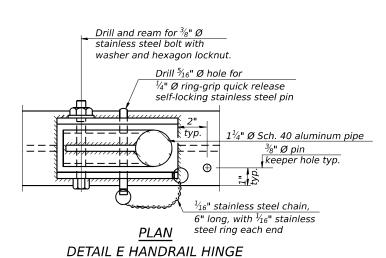


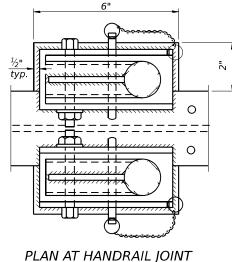
ALTERNATE SAFETY CHAIN ATTACHMENT

SIDE ELEVATION

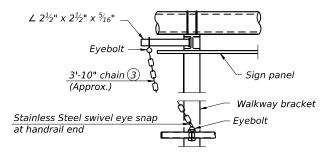
FRONT ELEVATION See "ELEVATION" at right for dimensions.

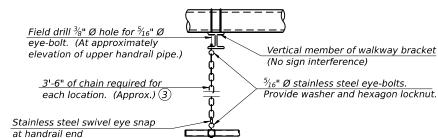
(With Sign Present) Items not shown same as "Side Elevation" of "Handrail Details"





Details not shown same as "PLAN"





ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

SAFETY CHAIN

One required for each end of each walkway.

OS-A-11-DMS

2-17-2017

* ехр.	

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	CHECKED -	BAR	REVISED -
PLOT SCALE =	DRAWN -	CS	REVISED -
PLOT DATE =	CHECKED -	BAR	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION **OVERHEAD SIGN STRUCTURES** FAI 80 21 STRUCTURE 8 WILL 883 565 ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS CONTRACT NO. 62R29 SHEET 9 OF 13 SHEETS

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape	
v4(E) 24		#9	F less 5"		
#4 bar spiral (E) - see Side Elevation					

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

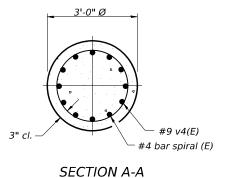
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

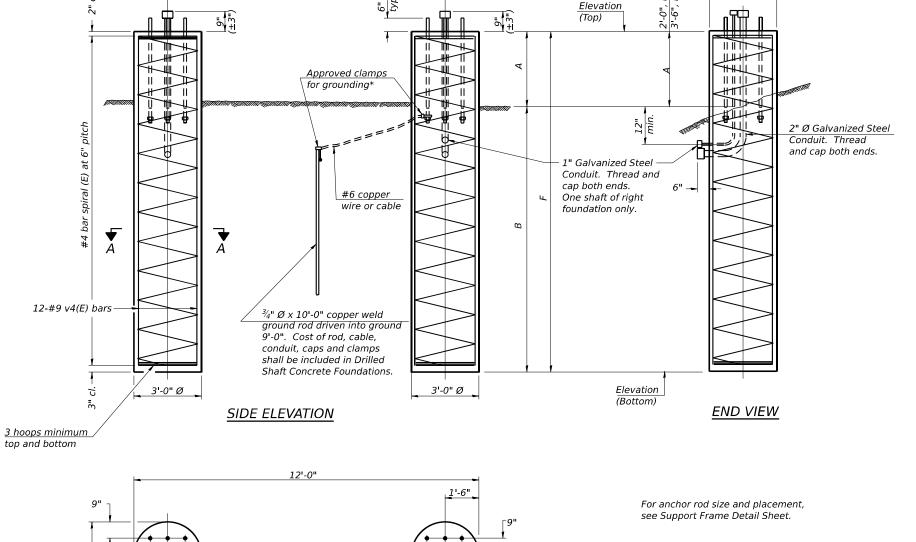
Concrete shall be placed monolithically, without construction joints.

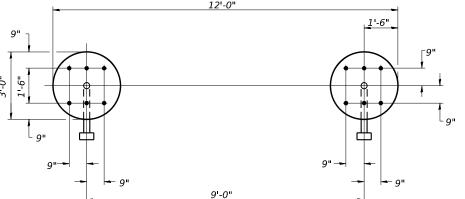
Backfill shall be placed per Article 502 of Standard Specification and prior to erection

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.



DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS





PLAN

9'-0" © to ©

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

3'-0" Ø

Left Foundation Right Foundation Structure Station Elevation Elevation Elevation Elevation Number В Bottom Bottom Тор Top 1S099I080R135.7 854+00 652.25 631.75 2'-6" 18'-0" 15099I080L136.0 870+00 628.89 2'-6" 18'-0"

USER NAME =	DESIGNED -	CS	REVISED -
	CHECKED -	BAR	REVISED -
PLOT SCALE =	DRAWN -	CS	REVISED -
PLOT DATE =	CHECKED -	BAR	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

0					RUCTURES ETAILS	
	SHEET	10	OF	13	SHEETS	

LU. E.	SECTION	l		COUNTY	TOTAL SHEETS	SHEET NO.
)	FAI 80 21 STRUC	TUR	E 8	WILL	883	566
			CONTRACT	NO. 621	₹29	
	ILLIN	VOIS	D PROJECT			

20'-6"

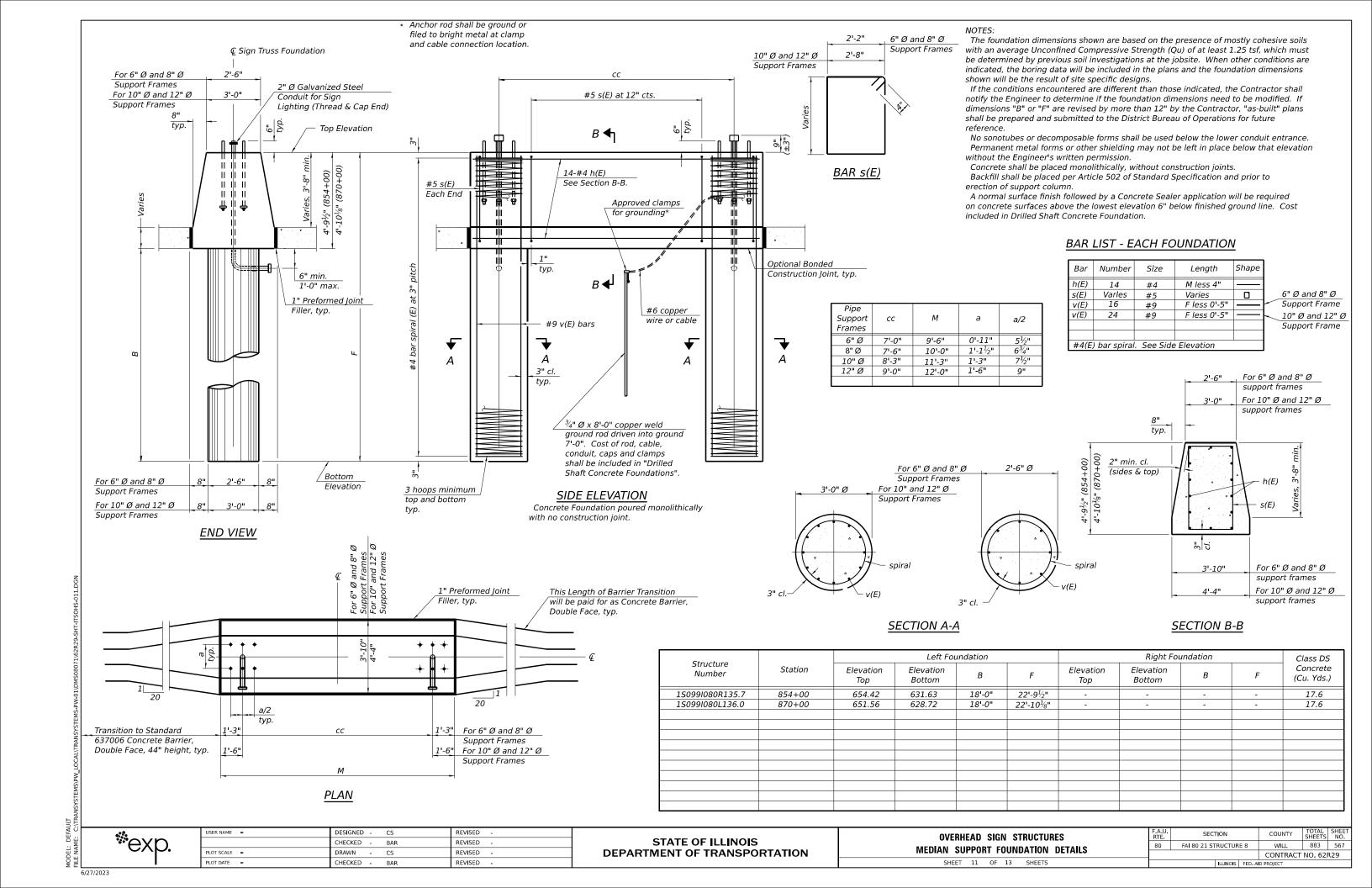
20'-6"

Class DS

Concrete

(Cu. Yds.)

10.7



Geo Services, Inc.

GEO Job No. 20012

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

	FAI Route 80 from			Date	2/25/23
	Chicago Street to US				
ROUTE	Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	TZ

Route 30	_ DE	J J				1-00 Filase II					
SECTION		_ ι	OCAT	ION _	, SEC.	, TWP. , RNG.					
COUNTY Will DR	RILLING	MET	THOD		Но	llow Stem Auger	_ HAMMER TYPE		CME A	utoma	tic
STRUCT. NO. Station OSB-008 Station 853+95 Offset 31.00ft Right	_ 	D E P T H	B L O W s	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion	n/a ft Dry to -5.0' ft n/a ft	D E P T H	B L O W s	U C S Qu	M O I S T
Ground Surface Elev. 649.76	ft	(ft)	(/6)	(tsf)	(%)	After Hrs.		(IL)	(/6")	(tsf)	(%)
12.0" ASPHALT		_			1	CLAY LOAM-brown & gray-medium stiff to ve		_			
12.0" STONE	648.76		10			(continued)	,		4		
12.5 515112	647.76	_	8		16			_	6	1.10	21
CLAY with Gravel-brown &	047.70		4						8	В	
gray-hard											
	646.26										
CLAY LOAM-brown & gray-medium stiff to very stiff			5	0.00					5	0.40	- 10
gray-medium sun to very sun		_	8 11	2.20 B	24			_	7 9	0.40 B	12
52		5	- ' '	ь				-25	9	ь	
3/6		_						_			
		_	4						5		
907		_	6	1.20	26				7	0.70	13
012			8	В					8	В	
H80 FRONG CHICAGO ST. TO RT 30, PTB 194-9/20012 BORING LOGS/20012_LOG.GPJ 3/6/73 and 20012_LOG.GPJ 3/6/73 and 20012_LOG.G											
001		_						_			
RING			7	2.10	21				6 7	0.40	13
908		-		B B	21			_	40	B	13
210013		-10						30	10		
76-47								_			
becoming gray @ -11.0'			7								
PI .0			11	2.80	19						
RT3		_	14	В				_			
01.							242				
0.01		_	6			CRUSHED LIMESTO	616.2 NE-gray-very	<u>.</u>	9		
CAĞ		_	8	1.80	19	dense	g,,		50/5"		11
3_		-15	10	В				-35			
ROW INCOME.											
9.8			_								
		_	5	1 20	24			_			
112 E			7 8	1.30 B	21						
0700		_	-	В				_			
1202		_						_			
Z:PROJECTS/2020/20012 EXP		_	5					_	50/2"		
ROJE STATE OF THE			6	0.90	21	End Of Boring @ -40.0					10
d.z.		-20	8	В		backfilled with cuttings	609.7	6 -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger BBS, from 137 (Rev. 8-99)



FAI Route 80 from

GEO Job No. 20012

SOIL BORING LOG

Page <u>1</u> of <u>1</u> 1/11/23

Chicago Street to US DESCRIPTION Route 30 I-80 Phase II LOGGED BY RT/VH

ROUTE Route 30 DE	JUN	FIION			1-00 Priase II			ומט		/ V F1
SECTION	ı	OCAT	ION _	SE 1/4	, SEC. 13, TWP. T35N, RNG. R10E, 3	B rd PM				
COUNTY Will DRILLING	ME	THOD		Ho	llow Stem Auger HAMMER 1	TYPE	(OME A	utoma	tic
STRUCT. NO.	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. n/a Stream Bed Elev. n/a Groundwater Elev.: First Encounter Dry Upon Completion Dry After Hrs.	_ ft _ ft _ ft	D E P T H	B L O W S	U C s Qu (tsf)	M O I S T (%)
15.0" ASPHALT					CLAY LOAM-brown & gray-hard					
649.77				1	(continued)					
SILTY CLAY with		7	4.50	40			_	4	4.00	40
Gravel-brown-hard		5	4.50	19				6 8	1.00 P	13
	_	7	Р				_	8	Ρ	
	_						_	_		
		4	0.50	0.4				5	4.05	44
becoming brown & gray @ 5.0'	_	4	0.50 P	21			_	6 7	1.25 P	14
becoming brown & gray @ -5.0' 646.02 CLAY LOAM-brown & gray-hard	5	4	P				25	,	Ρ	
5	_	1					_			
	_	2					_	6		
	_	2	1.75	24			_	7	0.75	13
<u>[</u>]		4	Р					10	Р	
	_						_			
		1								
	_	4						7		
		6	2.25	22				8	0.75	14
	10	11	Р			621.02	-30	12	Р	
	_				CLAYEY SAND & GRAVEL-gray-very dense		_			
£		5			GNAVEL-gray-very derise					
	_	8	3.25	24			_			
	_	11	9.23 P	24			_			
	_		<u> </u>				_			
		1								
becoming gray @ -13.5'	_	7						50/5"		
		8	3.50	22						12
	-15	13	Р				-35			
		_								
	_	5	0.00				_			
Ú v		7	2.00	20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

Р



USER NAME =	DESIGNED - CS	S	REVISED	-
	CHECKED - BA	AR	REVISED	-
PLOT SCALE =	DRAWN - CS	S	REVISED	-
PLOT DATE =	CHECKED - BA	AR	REVISED	-

50/1"

611.02

SILT wit Gravel-gray-very dense

15 End Of Boring @ -40.0'. Boring backfilled with cuttings.

Geo Services, Inc.
Geotechnical Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illihols 50565
(630) 355-2838

GEO Job No. 20012

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>2/24/23</u>

	FAI Route 80 from			Date	2/24/2
ROUTE _	Chicago Street to US Route 30	DESCRIPTION	I-80 Phase II	LOGGED BY	TZ

	ROUTE Route 30 DE	SUR	PHON			I-80 Phase II		JGGE	DBA		
	SECTION		LOCAT	ION _	, SEC.	, TWP. , RNG.					
	COUNTY Will DRILLING	ME.	THOD	_	Но	llow Stem Auger	HAMMER TYPE		OME A	utoma	tic
	STRUCT. NO. Station OSB-010	D E P T H	B L O W s	U C S Qu	M O I S T	Upon Completion	<u>n/a</u> ft Dry to -5.0' _ ft n/a _ ft	D E P T H	B L O W s	U C S Q	M O I S T
ſ	Ground Surface Elev. 646.98 ft	(ft)	(/6")	(tsf)	(%)	After Hrs		(ft)	(/6")	(tsf)	(%)
	12.0" ASPHALT	_			2	CLAY LOAM-gray-soft t (continued)	o very stiff	_			
ł	12.0" CRUSHED STONE	5	24			, , , , , , , , , , , , , , , , , , , ,			4		
	644.98	. –	4		17				5	0.90	22
ı	CLAY LOAM with Gravel-brown &		5						7	В	
	gray-hard										
-	CLAY LOAM-brown & gray-very		7					_	5		
	stiff to hard	_	12	4.90	17			-	5	0.50	22
		-5	15	В	''			-25	6	В	
ST. TO RT 30, PTB 194-9/20012 BORING LOGS/20012_LOG.GPJ 3/6/23		_									
P. 3		_							_		
9.90		_	7	3.10	23			_	5 4	0.25	14
2_L(12	3.10 B	23				2	0.25 P	14
/2001		_						_			
SSO		_	1				618.48				
NGL	becoming gray @ -8.5'		6			SAND & GRAVEL-gray	-medium		8		
BORI		_	10	4.00	20	dense			12		13
012		10	12	В				30	15		
-9/20	635.98	. –	1					-			
194	SILTY CLAY LOAM-brown-very		7								
0, PT	stiff	_	9	2.60	21						
RT 3		_	11	В							
2			-			CRUSHED GRAVEL-gi	613.98				
TS O	CLAY LOAM-gray-soft to very stiff		8			dense	lay-very	_	50/2"		
ICAG	,,,	_	8	1.80	20						16
N CH		- <u>15</u>	10	В				-35			
I-80 FROM CHICAGO		_	-								
-88		_	5								
EXP.		_	7	0.50	22			-			
0012			9	Р							
120/20											
TS/2(_						E0 '0"		
SEC			5 7	0.25	25	End Of Boring @ -40.0'	Boring		50/0"		NR
Z:\PROJECTS\2020\20012 EXP		-20	8	P	2.5	backfilled with cuttings.	606.98	-40			IVIX

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)



FAI Route 80 from

GEO Job No. 20012

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>1/11/23</u>

Chicago Street to US
TE Route 30 DESCRIPTION I-80 Phase II LOGGED BY RT/QZ

COUNTY Will	DRILLING	MET	HOD		Но	llow Stem Auger HAMN	IER TYPE		OME A	utoma	tic
STRUCT. NO		D E P	B L O	UCS	M O I	Surface Water Elev. Stream Bed Elev.	n/a ft n/a ft	D E P	B L O	U C S	M 0 1
BORING NO. OSB-0 Station 870+ Offset 64.00ft	00 Left	H H	w s	Qu (tot)	S T	Groundwater Elev.: First Encounter Upon Completion	Dry ft	H H	W S (/6")	Qu (tof)	(%
Ground Surface Elev	648.09 ft	(11)	(/6)	(tsf)	(%)	After Hrs CLAY LOAM-brown & gray-stif		(it)	(/6)	(tsf)	(7
13.0 ASPIIALI		+			2	hard (continued)	110	_			
C O'L CTONE	646.84		8						4		
6.0" STONE SILTY CLAY with	646.34		6	4.50	13				6	1.50	2
Gravel-brown-hard		\neg	7	Р					8	Р	
	645.09										
CLAY LOAM-brown & gray-hard	stiff to	-	6					_	5		
Tidid			9	4.50	21				6	1.50	2
		_	16	P.30	21			-25	8	P	_
		- 5						25			
							622.09	_			
			8			CLAY with Gravel-gray-stiff			6		
			15	4.50	19				6	1.50	1
		\rightarrow	22	Р				_	8	Р	
		-						_			
		\dashv	9			CLAY LOAM-gray-stiff	619.59		8		
		-+	12	4.50	23	January Start Star			6	1.25	1:
		-10	17	Р				-30	9	Р	
		\perp	6	0.50				_			
			10 16	3.50 P	22						
		+	10					_			
							614.59				
		-	7			SAND & GRAVEL-gray-very de			8		
			13	4.00	21				50/2"		6
		-15	17	Р				-35			
		\perp									
			6								
		+	10	4.00	23			_			
			12	4.00 P	25						
		+						_			
		\neg									
becoming gray @ -18.5'			5						6		
			5	1.50	21	End Of Boring @ -40.0'. Boring	1		7		1
		-20	6	P	I	backfilled with cuttings.	608.09		50/2"		I

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), GP-Geoprobe Hand Auger
BBS, from 137 (Rev. 8-99)

*****exp.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 OVERHEAD
 SIGN
 STRUCTURES
 F.A.U. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

 BORING
 LOGS
 2
 80
 FAI 80 21 STRUCTURE 8
 WILL
 883
 569

 SHEET
 13
 OF
 13
 SHEETS
 ILLIMOIS FED. AND PROJECT

S\PW_LOCAL\TRANSYSTEMS-PW-01\DMS08071\62R29-SHT-ITSOHS-01

TS SHT NO.1

TRAFFIC SIGNAL LEGEND (NOT TO SCALE)

ITEM	<u>EXISTING</u>	PROPOSED	ITEM	<u>EXISTING</u>	PROPOSED	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED
CONTROLLER CABINET	\boxtimes		HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	RRY	R R Y
COMMUNICATION CABINET	ECC	CC	-ROUND					G G Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HANDHOLE -SQUARE -ROUND	H ®	H (H)			4G 4G P
MASTER MASTER CONTROLLER	ЕММС	рим	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
UNINTERRUPTABLE POWER SUPPLY	4	9	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R	
SERVICE INSTALLATION -(P) POLE MOUNTED	-D- ^P	- ■ -P	RAILROAD CANTILEVER MAST ARM	X 0X X	X II X			4 Y 4 Y 4 G 4 G 4 G
SERVICE INSTALLATION -(G) GROUND MOUNTED	$\boxtimes^{\mathrm{G}} \boxtimes^{\mathrm{GM}}$	X ^G X ^{GM}	RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE	X0X X0X >	¥•¥		P RB	P RB
-(GM) GROUND MOUNTED METERED			RAILROAD CROSSBUCK	₹	*	PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS	(F)	₽
TELEPHONE CONNECTION	ET	T	RAILROAD CONTROLLER CABINET	₽	▶∢			
STEEL MAST ARM ASSEMBLY AND POLE	0	•—	UNDERGROUND CONDUIT (UC),			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	● C ★ D	₽ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE	0		GALVANIZED STEEL			ILLUMINATED SIGN		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o; <u>x</u> —	•—	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	●	SYSTEM ITEM	s	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE	8	•	INTERSECTION ITEM REMOVE ITEM	ı	IP	GROUND CABLE IN CONDUIT,	(INC)	
GUY WIRE	>-	>-	RELOCATE ITEM		RL	NO. 6 SOLID COPPER (GREEN)	1#6	
SIGNAL HEAD	>	-	ABANDON ITEM		Α	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	_1	
SIGNAL HEAD WITH BACKPLATE	#⊳	+-	CONTROLLER CABINET AND			COAXIAL CABLE	<u>—</u> c—	—c—
SIGNAL HEAD OPTICALLY PROGRAMMED	-⊳ ^P +⊳ ^P	→ P + → P	FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	ot>F ot>FS	•► ^F •► ^{FS}	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(F3) SOLAR FOWERED	DCF DCFS	FF FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	<u></u>	
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	PP	P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		24F
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	s s	s s			
VIDEO DETECTION CAMERA	V	[v]¶	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)			
RADAR/VIDEO DETECTION ZONE		III	QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	÷C ÷M ÷P ÷S	$\dot{\bar{\uparrow}}^{C} \dot{\bar{\uparrow}}^{M} \dot{\bar{\uparrow}}^{P} \dot{\bar{\uparrow}}^{S}$
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	(0)	o	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	◄	WIRELESS ACCESS POINT		-			
CONFIMATION BEACON	\circ	⊷						
WIRELESS INTERCONNECT	○ •1 	•-++						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
USER NAME = NSALEHIAN	DESIGNED -	NS REVISED -				DISTRICT ONE	F.A.I. SECTION	COUNTY TOTAL SHEE

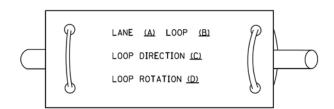
0.0011101101010101010101010101010101010	DESIGNED	_	110	11241525	-
	DRAWN	-	NS	REVISED	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	TS	REVISED	-
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED	

STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

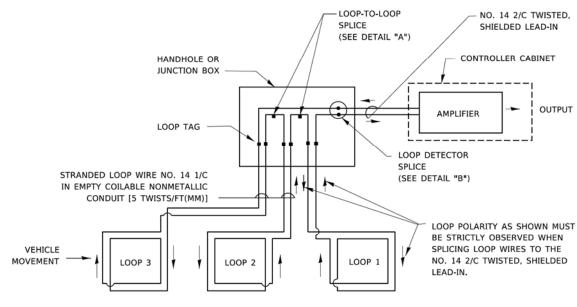
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		DISTRICT ONE				F.A.I. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
		DETAILS	80	FAI 80 21 STRUCTURE 8		WILL	883	570			
STANDAND THATTIC SIGNAL DESIGN DETAILS								CONTRACT	NO. 62	329	
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS F	ED. AID	PROJECT		

- 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

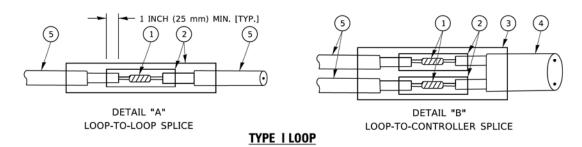


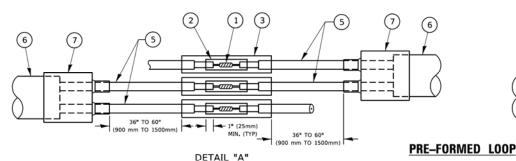
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



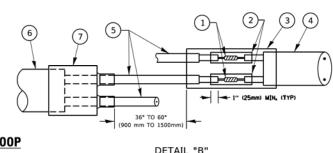
DETECTOR LOOP WIRING SCHEMATIC

- 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.





LOOP-TO-LOOP SPLICE



LOOP-TO-CONTROLLER SPLICE

WILL

883 571

CONTRACT NO. 62R29

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 LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
- (6) XL POLYOLEFIN 2 CONDUCTOR
- (7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TranSmart

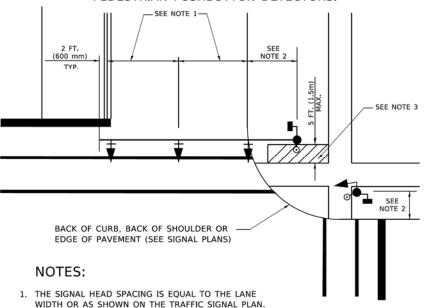
JSER NAME = NSALEHIAN DESIGNED -REVISED DRAWN NS REVISED HECKED -TS REVISED PLOT DATE = 6/27/2023 DATE - 6/29/2023 REVISED -

SECTION DISTRICT ONE FAI 80 21 STRUCTURE 8 STANDARD TRAFFIC SIGNAL DESIGN DETAILS OF SHEETS STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

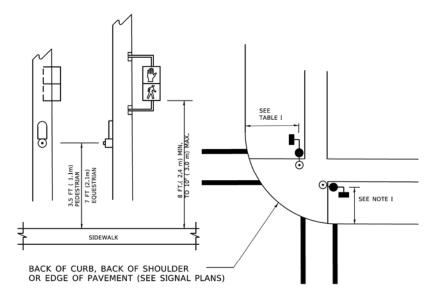
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



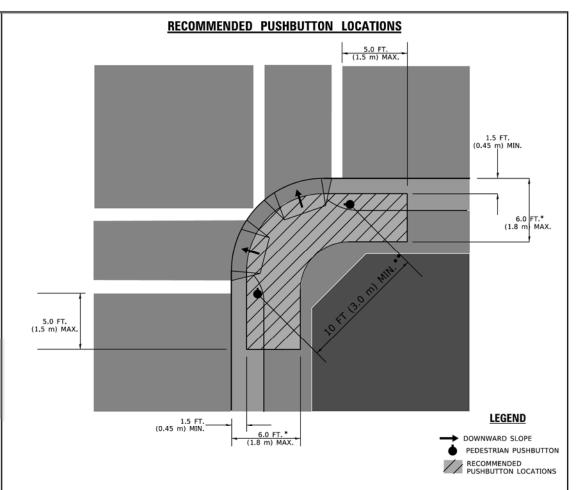
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 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.
- 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.
- 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."



- * 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) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

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 TOTHE 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 LED 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.

SCALE: NONE

NOTES:

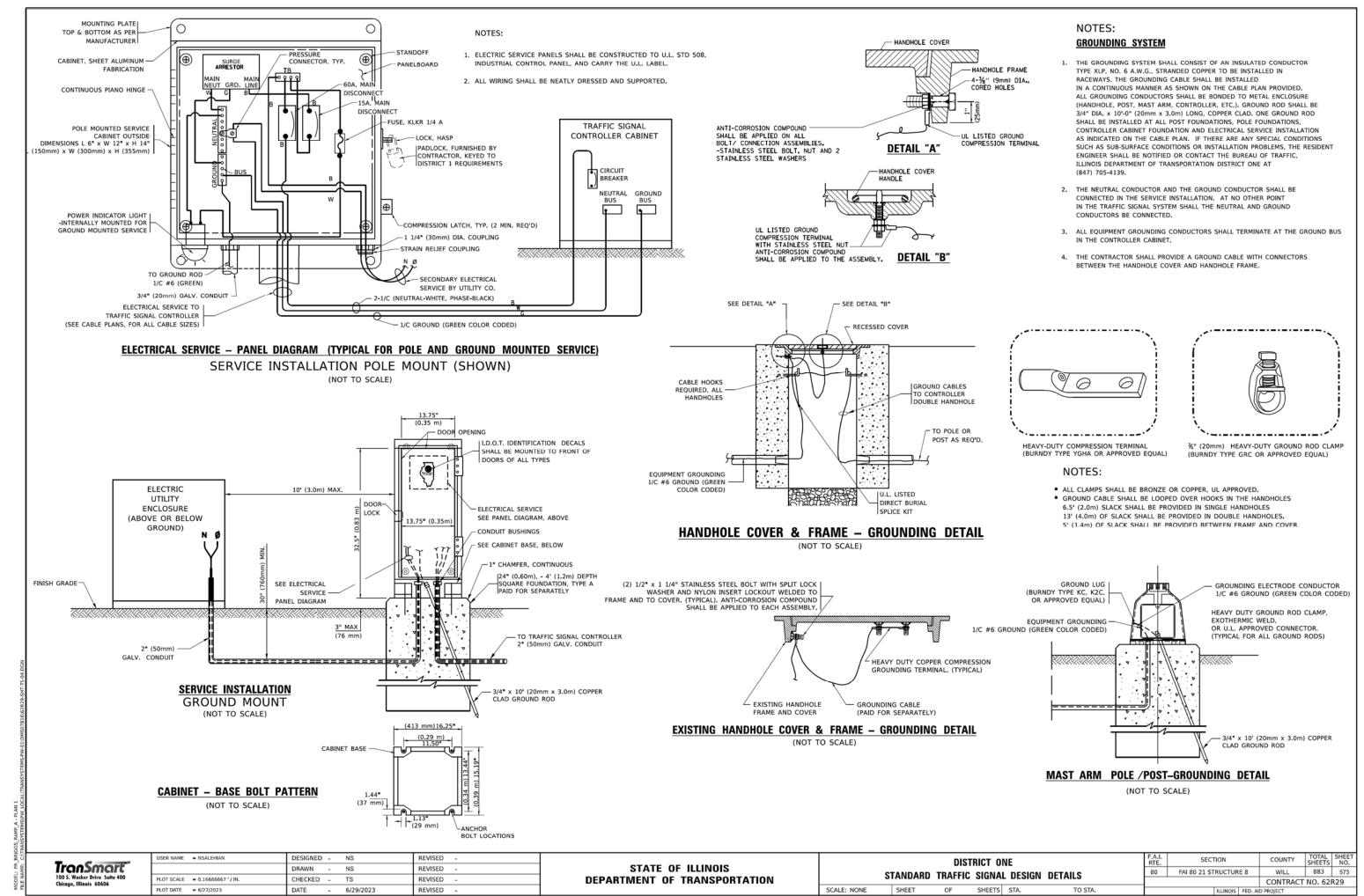
- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- THE BOTTOM OF 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 GOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SWAAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CORRENT 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 MIGHEST 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.
- 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.

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606

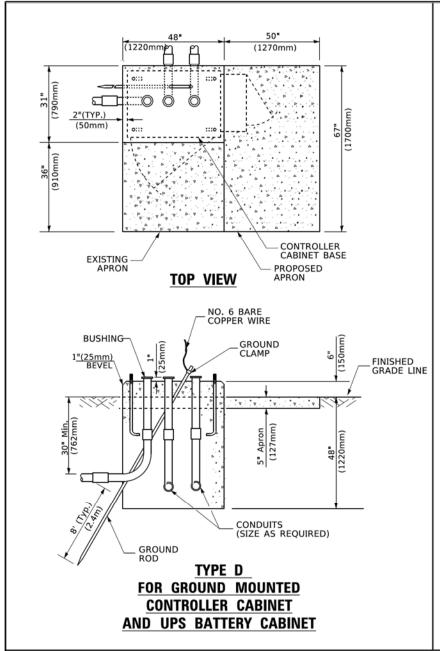
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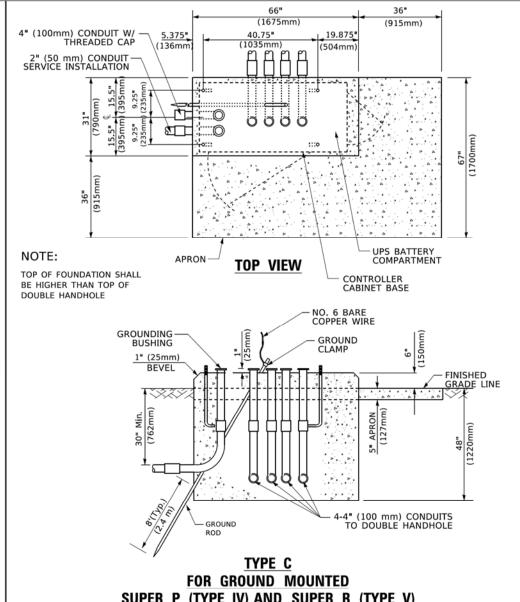
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				80	FAI 80 21 STRUCTURE 8	WILL	883	572		
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS					CONTRACT NO. 62R2				R29
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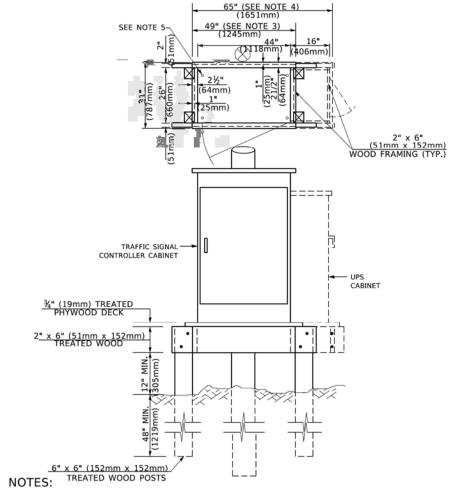








SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**



- 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

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
		<u>1</u> -

VERTICAL CABLE LENGTH

CABLE SLACK

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

DEPTH OF FOUNDATION

Mast Arm Length	 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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up 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 (Ou) > 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.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001...

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

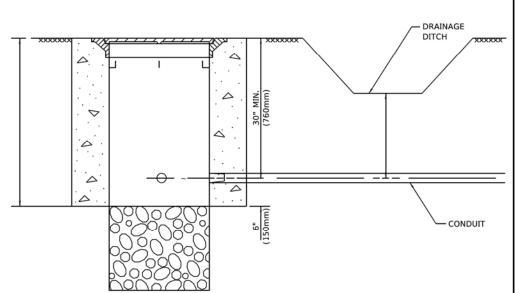
TranSmart*
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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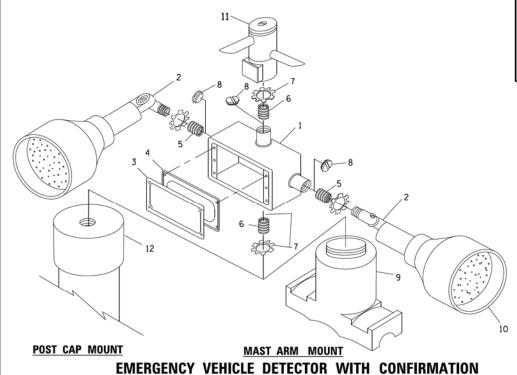
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DISTRICT ONE	F.A.I. RTE.	SECTION	COUNTY
	80	FALSO 21 STRUCTURE 8	WILL

883 574 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 62R29 SHEETS STA.



- 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)



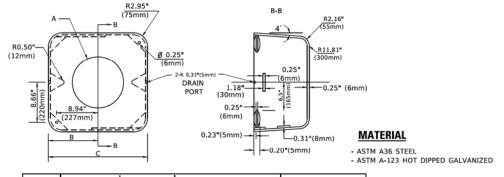
(915mm) 5.375" (136mm) 40.75" 19.875" (1035mm) ...O \odot CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-_GROUND CLAMP EXISTING-ANCHOR BOLTS GRADE LINE BEVEL (225mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)

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 REDUCING BUSHING ¾"(19 mm) CLOSE NIPPLE 7 ¾"(19 mm) LOCKNUT 8 ¾"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

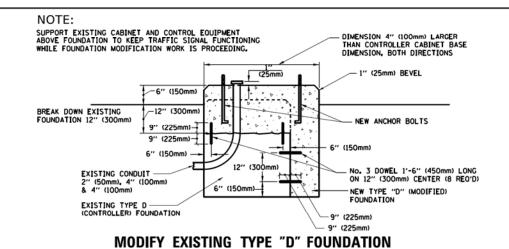
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION 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.

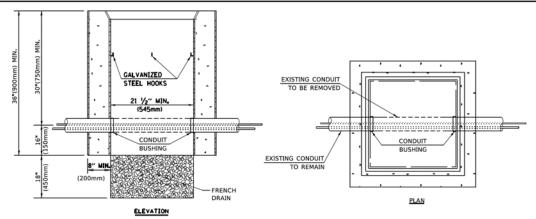


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5*(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37 " (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

- . 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 VERIFIED 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.





- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

	USER NAME = NSALEHIAN	DESIGNED	-	NS	REVISED	
TranSmart"		DRAWN	-	NS	REVISED	
100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	TS	REVISED	-
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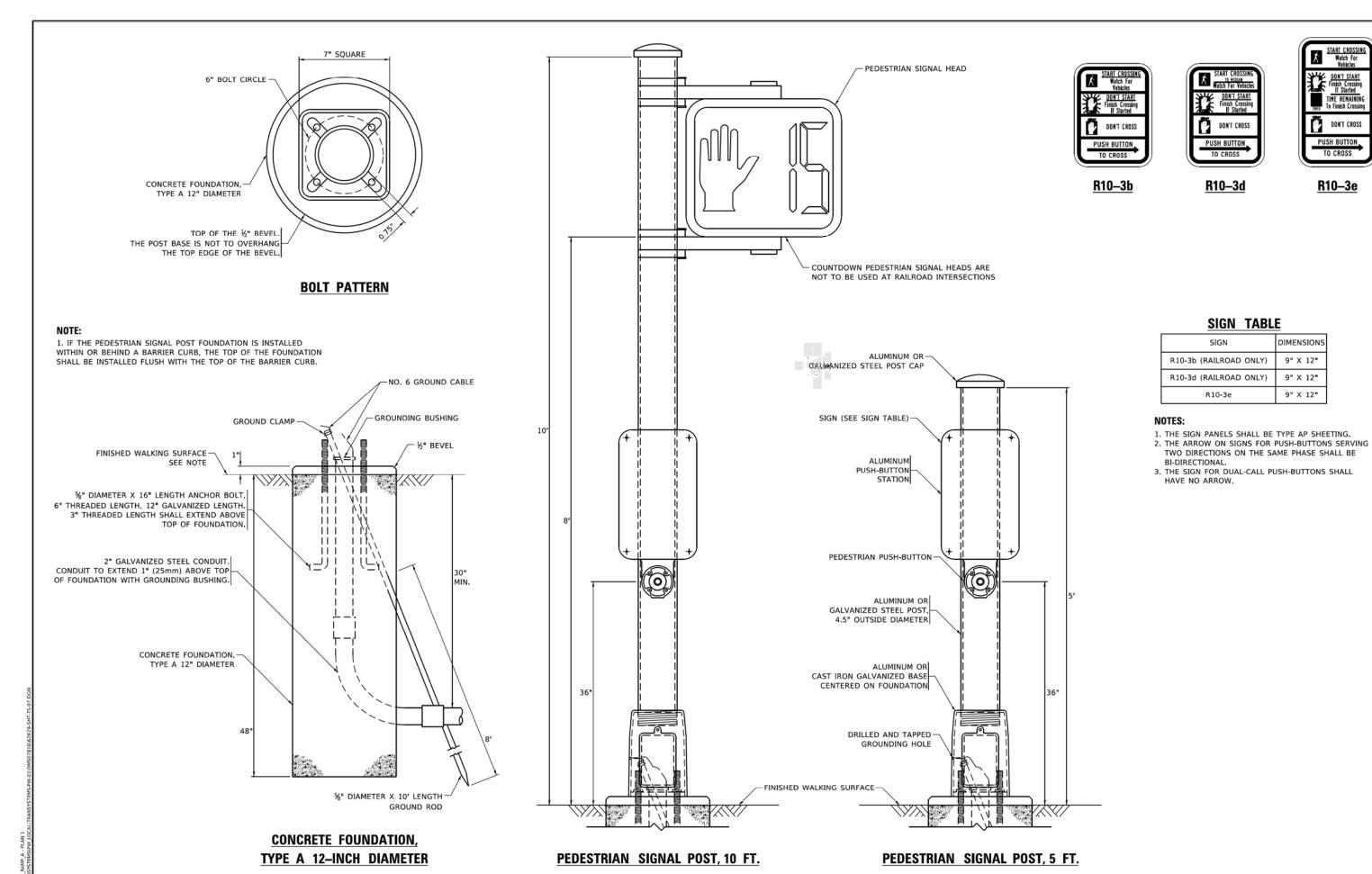
BEACON MOUNTING DETAIL

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

COUNTY FAI 80 21 STRUCTURE 8 WILL 883 575 CONTRACT NO. 62R29

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**





TranSmart

JSER NAME = NSALEHIAN DESIGNED - NS REVISED DRAWN NS REVISED CHECKED -TS REVISED PLOT DATE = 6/27/2023 - 6/29/2023 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEETS STA.

SECTION FAI 80 21 STRUCTURE 8 WILL 883 576 CONTRACT NO. 62R29

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TO CROSS

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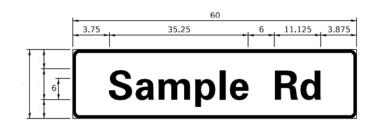
DIMENSIONS

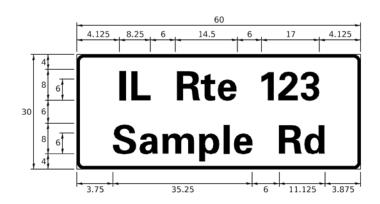
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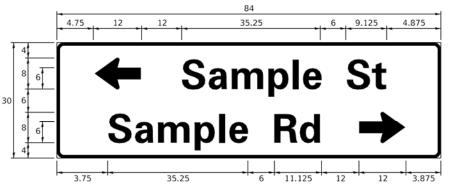
9" X 12"

9" X 12"

SIGN PANEL - TYPE 1 OR TYPE 2







DES I GN	AREA	SIGN PANEL	SHEET ING	OTY.
SER I ES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18. 250
BOULEVARD	Blvd	17. 125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8. 250	9. 625
DRIVE	Dr	8. 625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7. 000	8. 250
LANE	Ln	9. 125	10.750
PARKWAY	Pkwy	23. 375	27. 375
PLACE	PI	7. 125	7. 750
ROAD	Rd	9. 625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8. 000	9. 125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9. 125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES. AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC. MIDLOTHIAN, VA

- WESTERN REMAC, INC.

WOODRIDGE, IL

SIGN CHANNEL SIGN SCREWS BRACKETS

PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3

SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)

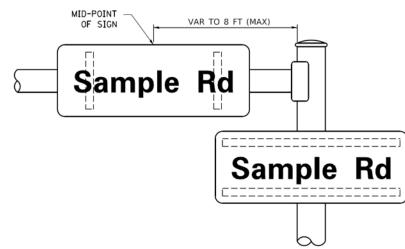
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

SCALE: NONE

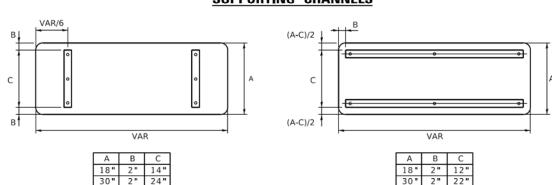
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

	FHWA SE	RIES "C"			FHWA SE	RIES "D"	
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
Α	0.240	5.122	0.240	Α	0.240	6. 804	0.240
В	0.880	4.482	0.480	В	0.960	5.446	0.400
С	0.720	4.482	0.720	С	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F G	0.880 0.720	4.082	0.240 0.720	F	0.960	4. 962 5. 446	0.240
H	0. 120	4. 482 4. 482	0. 120	G H	0.800 0.960	5.446	0.800
I	0.880	1.120	0.880	I	0.960	1. 280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4. 482	0.480	K	0.960	5, 604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
М	0.880	5. 284	0.880	М	0.960	6. 244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
0	0.720	4.722	0.720	0	0.800	5. 684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
0	0.720	4. 722	0.720	Q	0.800	5. 684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S T	0.480	4.482	0.480	S T	0.400	5. 446 4. 962	0.400
U	0.240	4.082 4.482	0.240 0.880	U	0.240	5.446	0.240
V	0.880 0.240	4.482	0.880	V	0.960 0.240	6. 084	0.960 0.240
w	0.240	6.084	0. 240	W	0.240	7. 124	0.240
X	0.240	4. 722	0.240	X	0.400	5. 446	0.400
Y	0. 240	5. 122	0. 240	Y	0. 240	6. 884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
Ь	0.720	4.082	0.480	b	0.800	4.802	0.480
С	0.480	4.002	0.240	С	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
е	0.480	4.082	0.320	e	0.480	4. 722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h i	0.720	4.082	0.640	h i	0.800	4. 722	0.720
i	0.720 0.000	1.120 2.320	0.720 0.720	i	0.800	1. 280 2. 642	0.800
k	0.720	4. 322	0.160	k	0.800	5. 122	0.160
ì	0.720	1.120	0.720	ì	0.800	1. 280	0.800
m	0.720	6. 724	0.640	m	0.800	7. 926	0.720
n	0. 720	4.082	0.640	n	0.800	4. 722	0.720
0	0.480	4.082	0.480	0	0.480	4.882	0.480
р	0.720	4.082	0.480	р	0.800	4.802	0.480
Q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
S	0.320	3. 362	0.240	5	0.320	3. 762	0.240
+	0.080	2.882	0.080	t	0.080	3. 202	0.080
u	0.640 0.160	4.082	0.720 0.160	u v	0.720	4. 722 5. 684	0.800
v w	0.160	4. 722 7. 524	0.160	w	0.160 0.160	9.046	0.160 0.160
×	0.160	5. 202	0.000	×	0.000	6. 244	0.000
y	0.160	4. 962	0.160	у	0.160	6. 004	0.160
Z	0.240	3. 362	0.240	Z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4. 722	0.720	0	0.800	5. 684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TranSmart

HEED NAME - MEALEURAN	DECICNED		NC	DEVICED
USER NAME = NSALEHIAN	DESIGNED	-	NS	REVISED -
	DRAWN	-	NS	REVISED -
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	TS	REVISED -
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DISTI	RICT OI	NE		F.A.I. RTE.	SECTIO
G.	LVNUVBU	TRAFFIC	SIGNAL	DESIGN	DETAILS	80	FAI 80 21 STRI
J	IANDAND	Inallic	JIUIVA	L DESIGN	DETAILS		
	CULEEX	05	CHIEFTE	CTA	TO CTA		

EACH

TEMPORARY CONTROLLER AND CABINET TEMPORARY WOOD POLE TEMPORARY 3-SECTION SIGNAL HEAD TEMPORARY 4-SECTION SIGNAL HEAD TEMPORARY 5-SECTION SIGNAL HEAD SERVICE INSTALLATION EACH EACH

EACH EACH

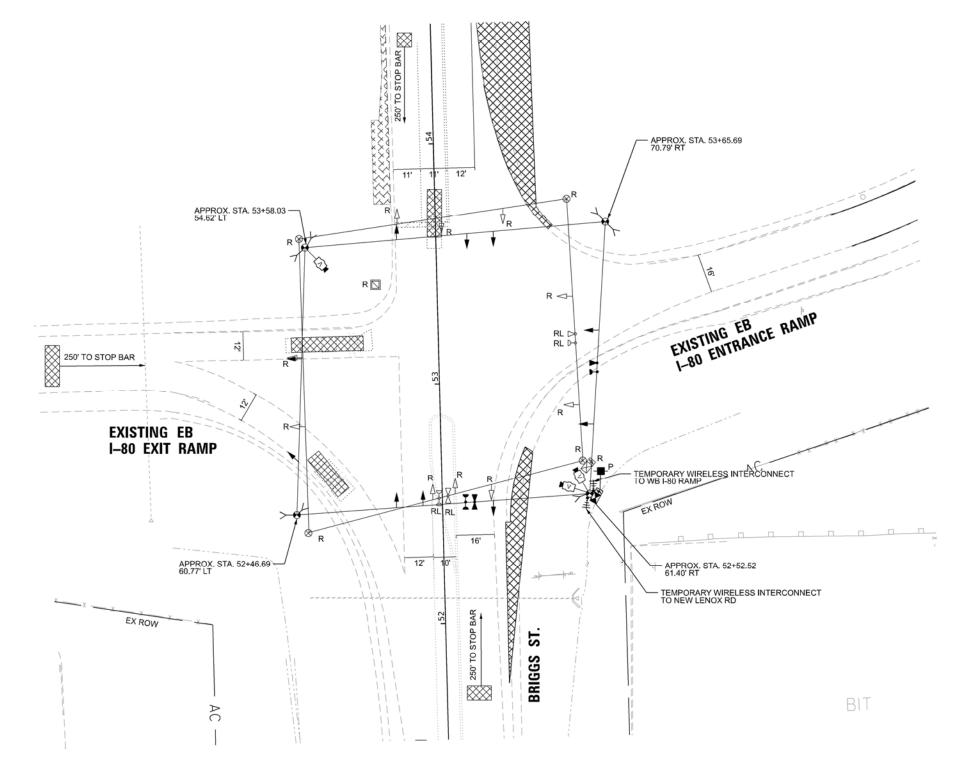
EACH

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

CONFIRMATION BEACON

EACH LIGHT DETECTOR

LIGHT DETECTOR AMPLIFIER



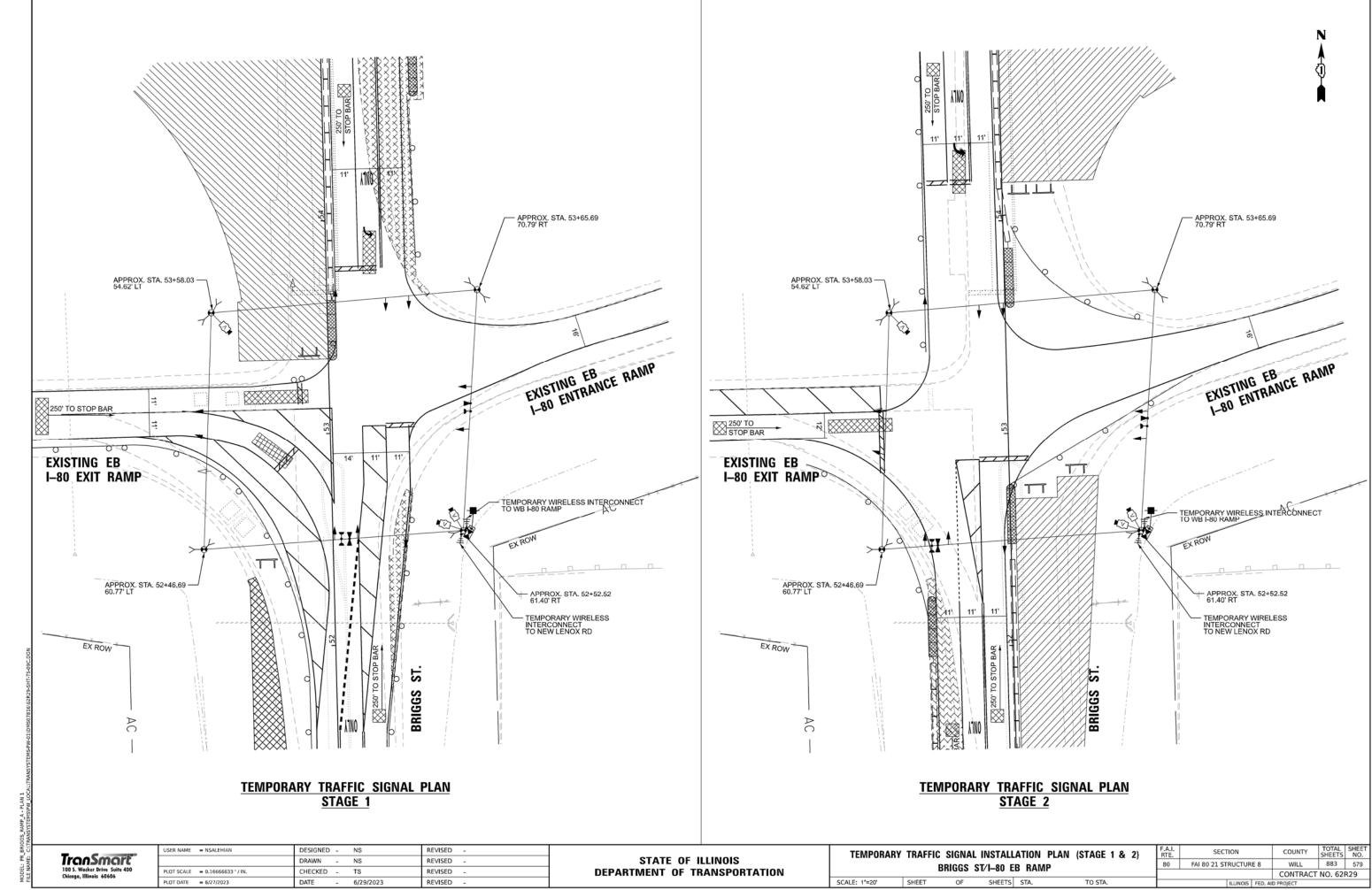


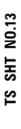
USER NAME = NSALEHIAN	DESIGNED	-	NS	REVISED -	Г
	DRAWN	-	NS	REVISED -	
PLOT SCALE = 0.16666667 ' / IN.	CHECKED	-	TS	REVISED -	
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -	

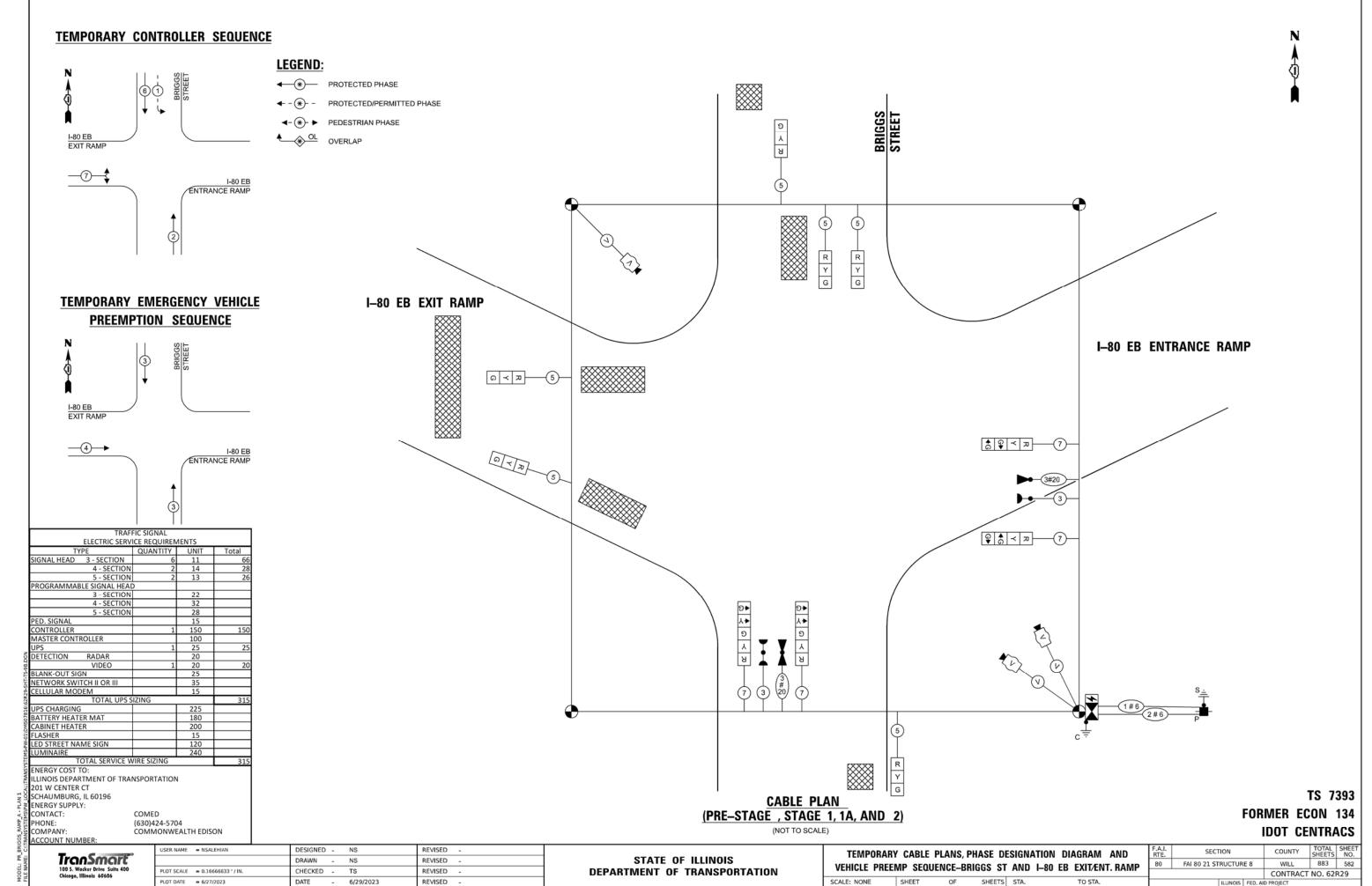
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

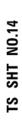
TEMPORARY TRA	AFFIC SIG	NAL INS	TALLATI	ON PI	LAN(PRE-STAGE&STAG	GE 1A)	F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
AND REMOVE EX	Y TRAFFIC	SIGNAL	FULLDI	AENT_	BRIGGS ST/I-80 EB	DAMD.	80	FAI 80 21 STRUCTURE	E 8	WILL	883	578
AND ILLINOVE E	A. IIIAIIIU	SIGNAL	Luon	VILIVI-	DIII003 31/1-00 LD	IIAIVII				CONTRACT	NO. 62	R29
SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AID	PROJECT		

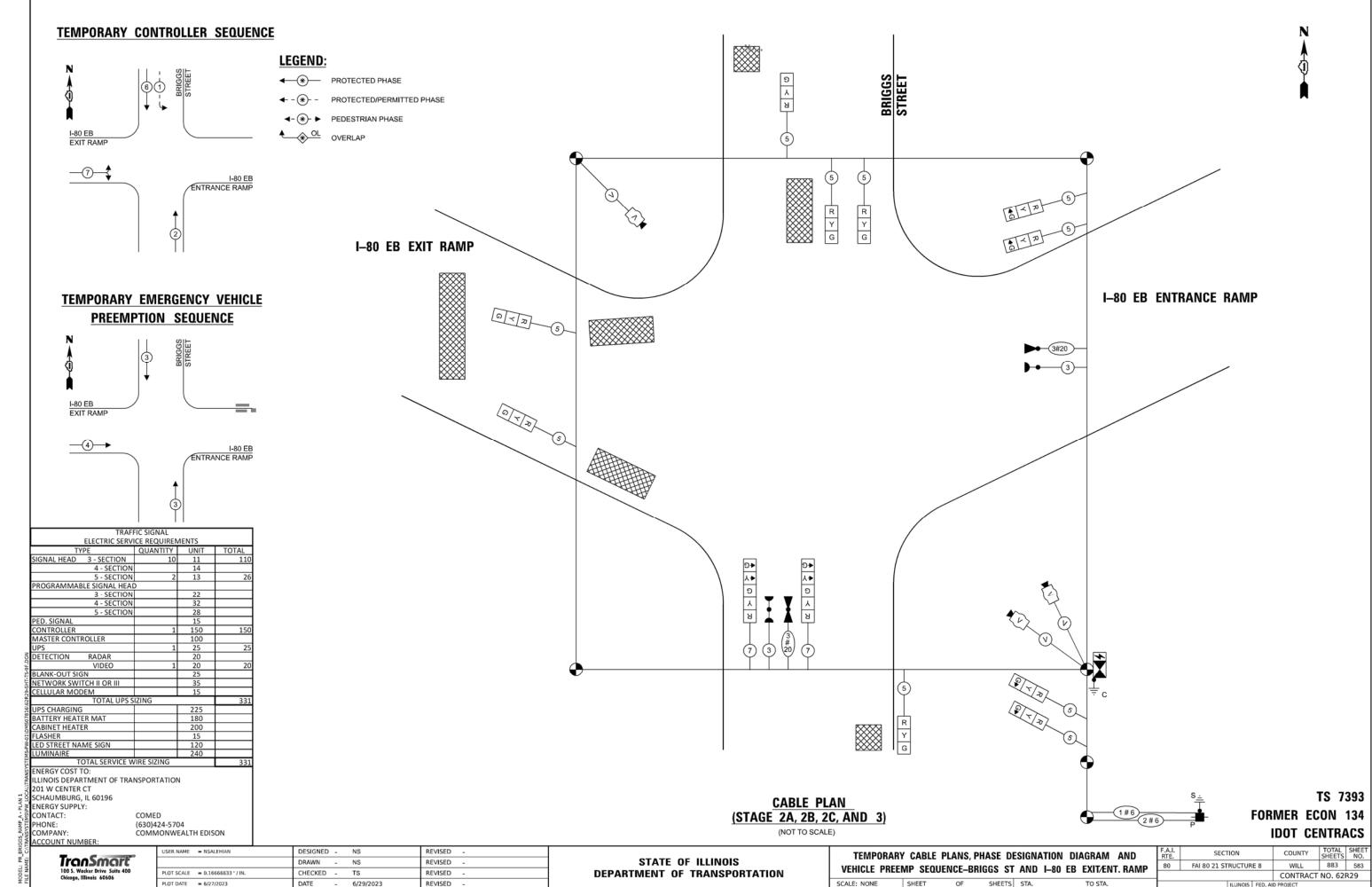
883 578 WILL









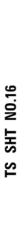


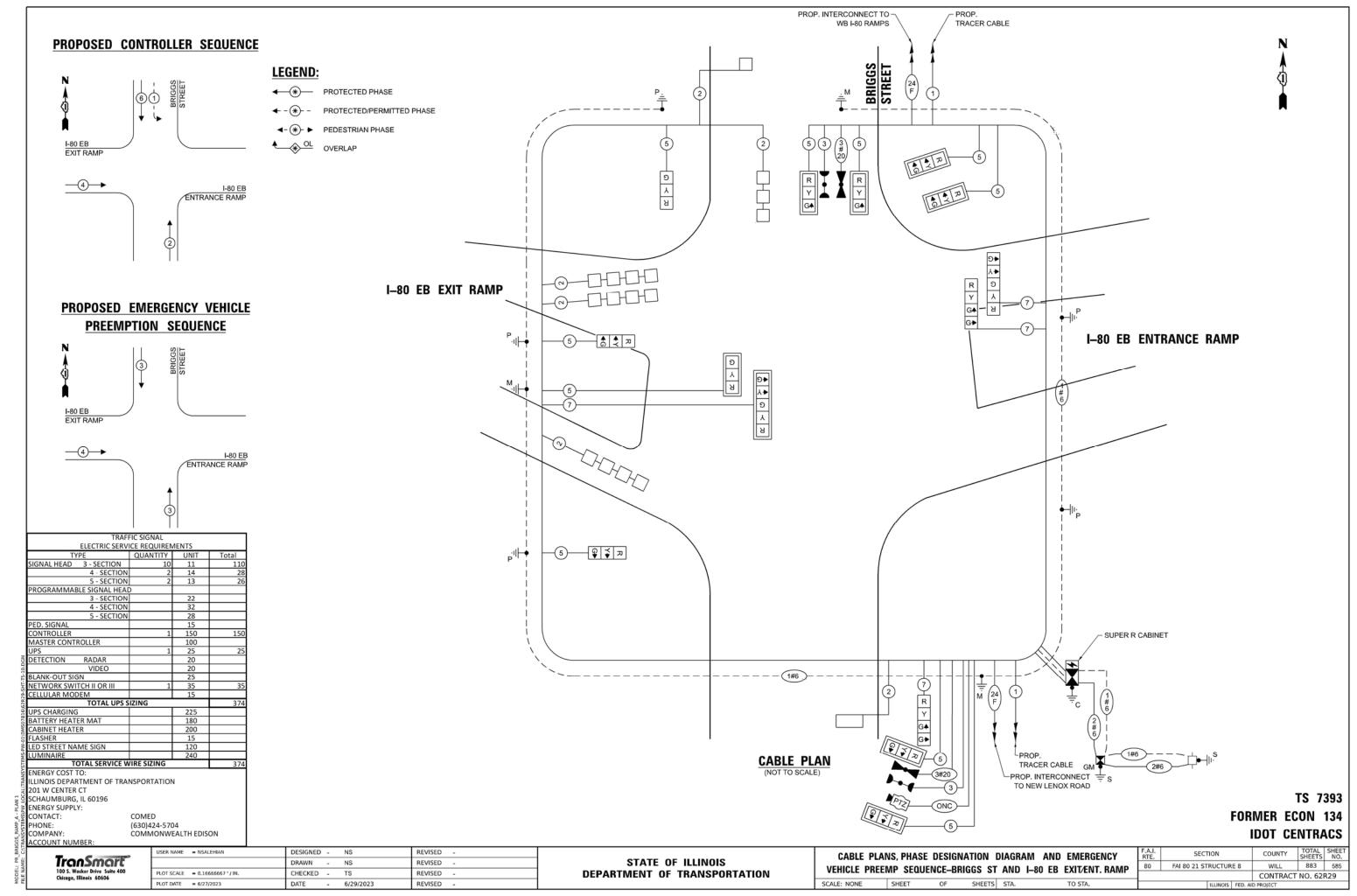
PLOT DATE = 6/27/2023

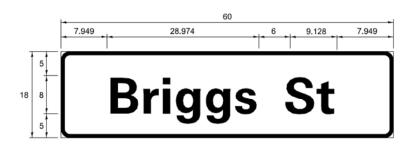
DATE

- 6/29/2023

REVISED -







DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	1	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTIT
SIGN PANEL - TYPE 1	SQ FT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	626
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	235
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	511
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	346
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2299
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	607
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5249
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	226
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1321
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	34
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
PREFORMED DETECTOR LOOP	FOOT	688
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	409
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2
OUTDOOR RATED NETWORK CABLE REMOTE CONTROLLED VIDEO SYSTEM	FOOT	105

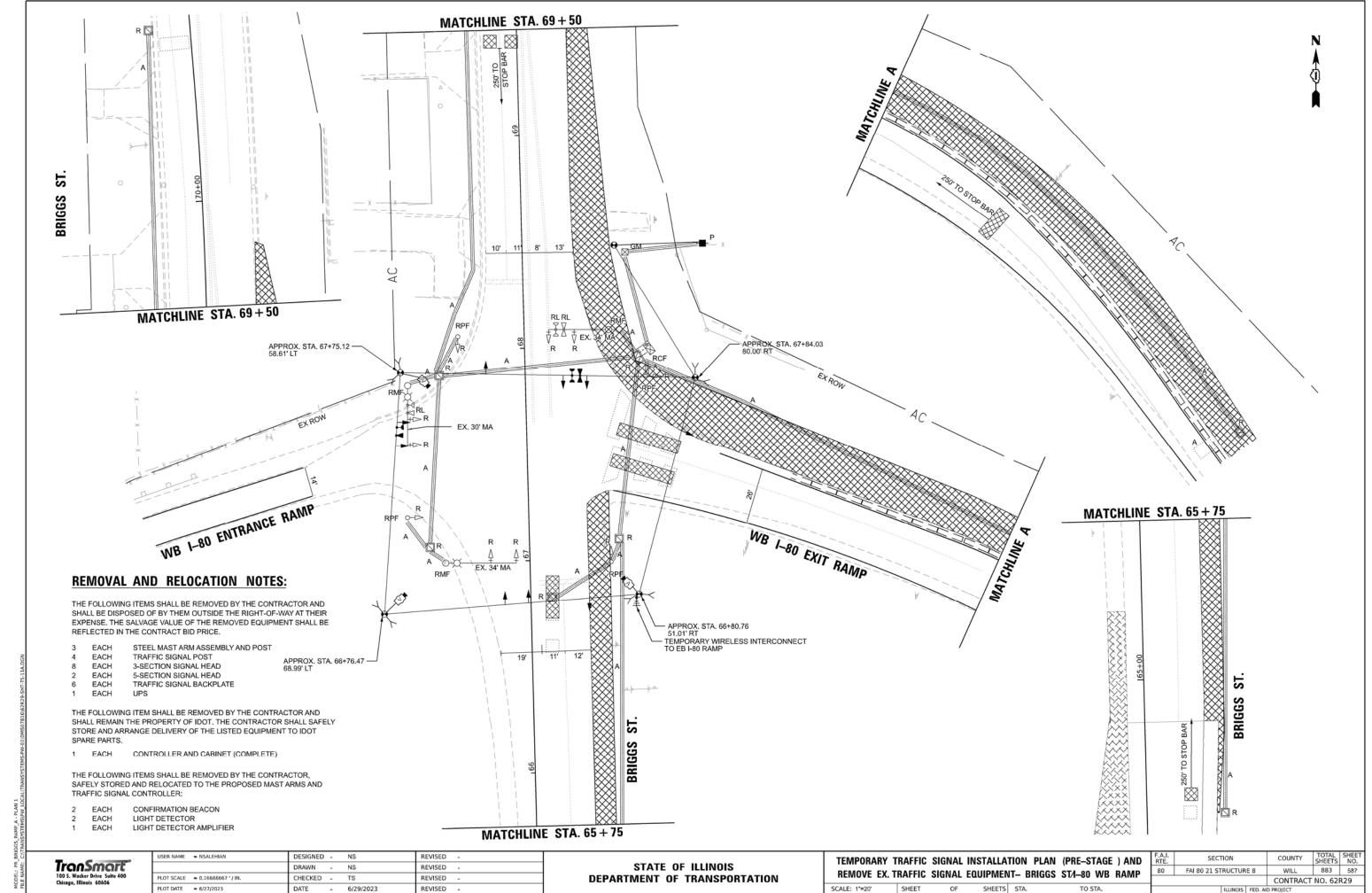
* 100% COST TO THE JOLIET FIRE PROTECTION DISTRICT

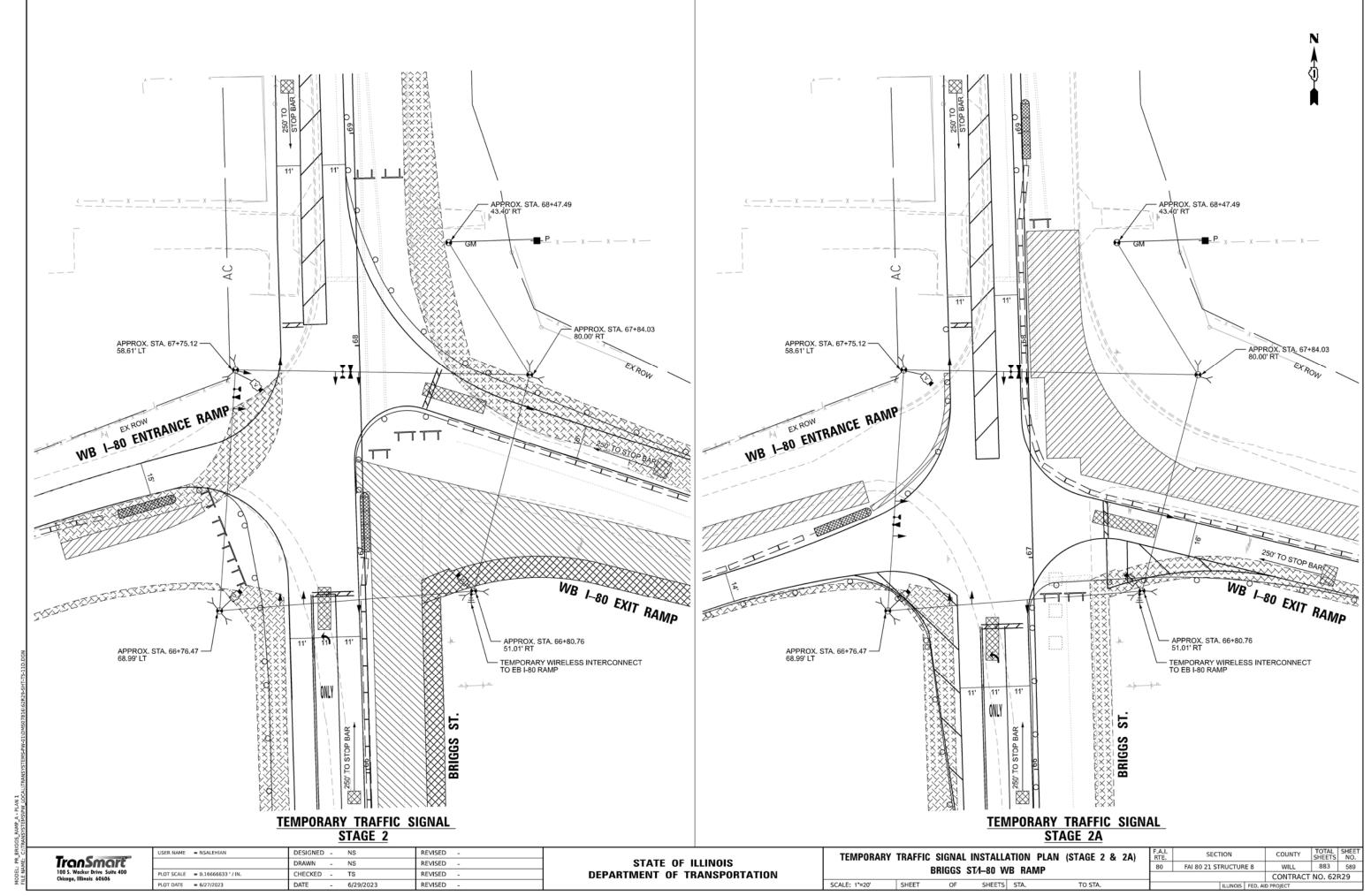
TS 7393 **FORMER ECON 134 IDOT CENTRACS**

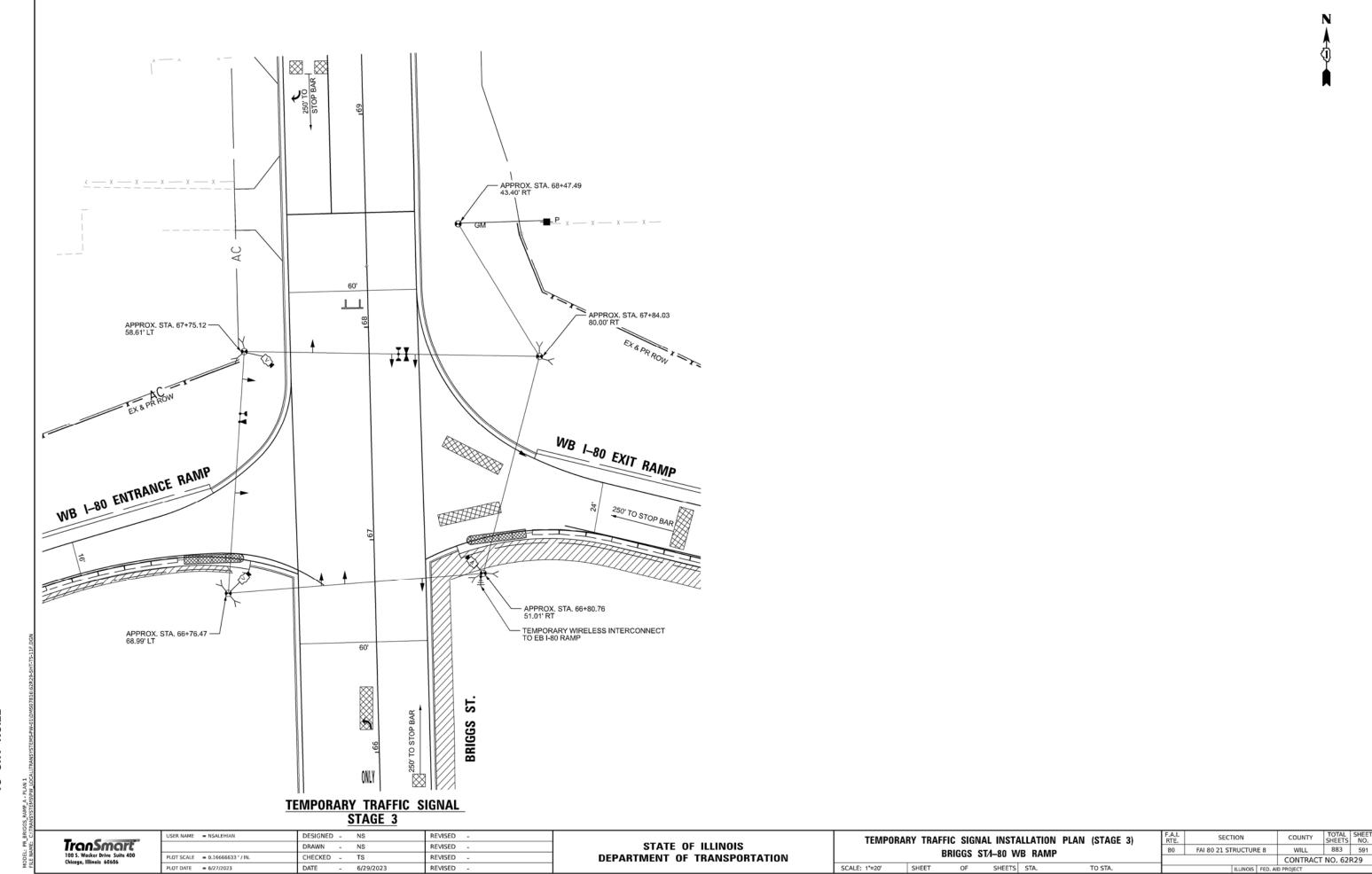
TranSmart*

PLOT DATE = 7/20/2023	DATE	-	6/29/2023	REVISED	-
PLOT SCALE = 0.166666667 ' / IN.	CHECKED	-	TS	REVISED	
	DRAWN	-	NS	REVISED	
USER NAME = NSALEHIAN	DESIGNED	-	NS	REVISED	-









DEPARTMENT OF TRANSPORTATION

SCALE: NONE

SHEETS STA.

CONTRACT NO. 62R29

NO.23

SHT

Z

LOT SCALE = 0.16666633 ' / IN.

PLOT DATE = 6/27/2023

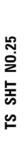
CHECKED - TS

- 6/29/2023

REVISED

REVISED -

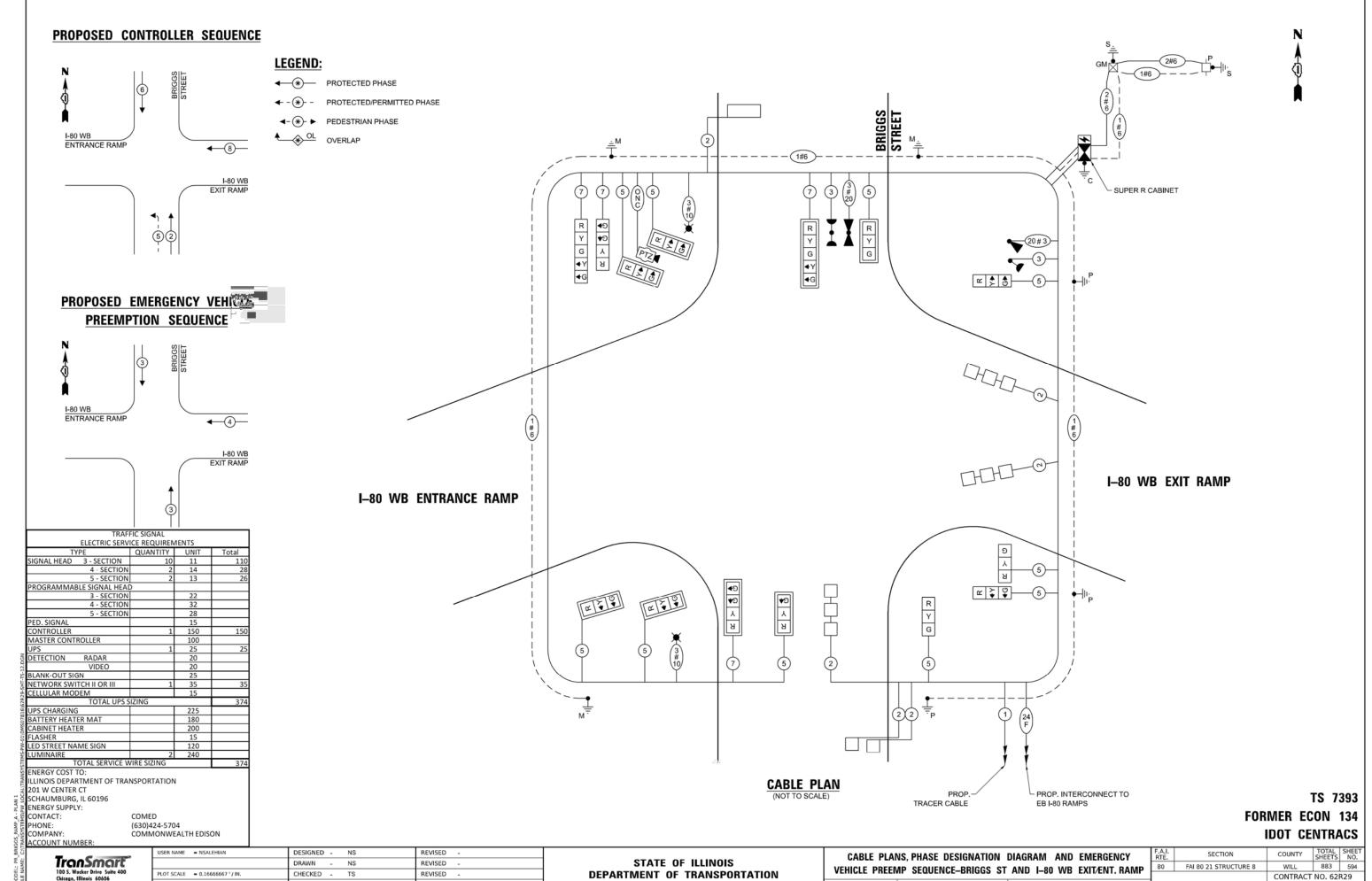
249'-UC-2" -



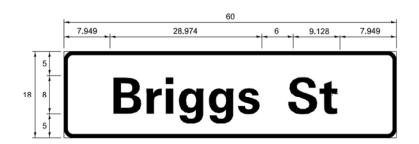
PLOT DATE = 6/27/2023

DATE - 6/29/2023

REVISED -



SHEETS STA.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	543
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	147
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	307
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	496
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	157
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1955
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	748
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2850
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	131
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1324
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	40
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	FACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
PREFORMED DETECTOR LOOP	FOOT	496
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	162
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
INTERCEPT EXISTING CONDUIT	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	211
OUTDOOR RATED NETWORK CABLE REMOTE CONTROLLED VIDEO SYSTEM	FOOT EACH	211

* 100% COST TO THE JOLIET FIRE PROTECTION DISTRICT

TS 7394 FORMER ECON 134 **IDOT CENTRACS**



	USER NAME = NSALEHIAN	DESIGNED - NS	REVISED -
ranSmart"		DRAWN - NS	REVISED -
0 S. Wacker Drive Suite 400 icago, Illinois 60606	PLOT SCALE = 0.16666667'/IN.	CHECKED - TS	REVISED -
rtago, minors obsob	PLOT DATE = 7/20/2023	DATE - 6/29/2023	REVISED -

REMOVAL AND RELOCATION NOTES:

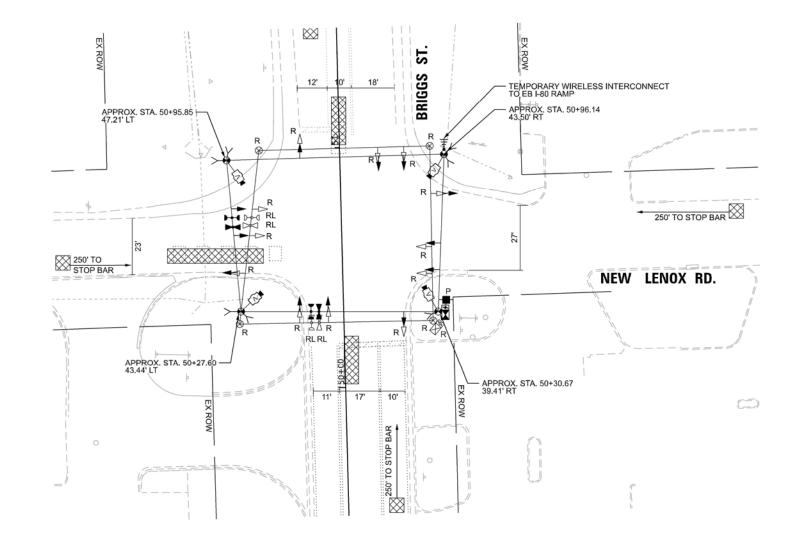
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TEMPORARY CONTROLLER AND CABINET TEMPORARY WOOD POLE EACH TEMPORARY 3-SECTION SIGNAL HEAD EACH TEMPORARY 5-SECTION SIGNAL HEAD SERVICE INSTALLATION EACH UPS AND CABINET

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

CONFIRMATION BEACON 2 EACH EACH LIGHT DETECTOR LIGHT DETECTOR AMPLIFIER EACH

EACH



GGS_RAMP_A TRANSYSTEMS	
MODEL: PR_BRIC FILE NAME: C:\T	TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606

USER NAME = NSALEHIAN	DESIGNED	-	NS	REVISED -	Т
	DRAWN	-	NS	REVISED -	
PLOT SCALE = 0.16666633 ' / IN.	CHECKED	-	TS	REVISED -	
PLOT DATE = 6/27/2023	DATE	-	6/29/2023	REVISED -	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

TEMPORARY TRA	AFFIC SIG	NAL IN	STALLATIO	ON PI	AN(PRE-STAGE&STAGE 1A)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REMOVE EX TRA	FEIC SIG	NAI FOI	IIPMENT_	NEW	I FNOY RD & RRIGGS ST	80	FAI 80 21 STRUCTURE 8	WILL	883	596
REMOVE EX. TRAFFIC SIGNAL EQUIPMENT-NEW LENOX RD & BRIGGS ST								CONTRACT	NO. 621	329
SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

REVISED -

- 6/29/2023

CONTRACT NO. 62R29

OF SHEETS STA.

SCALE: 1"=20' SHEET

OF SHEETS STA.

CONTRACT NO. 62R29

PLOT DATE = 6/27/2023

REVISED -

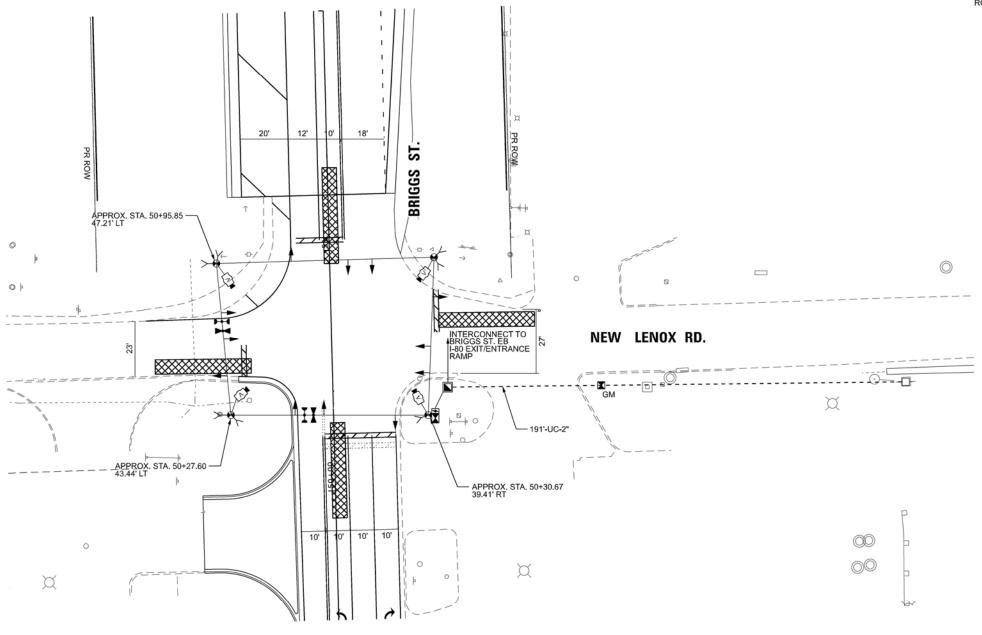
- 6/29/2023



LEGEND

ROADWAY DETECTION ZONE





TranSmart"
H CHISHICH C
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

	USER NAME = NSALEHIAN	DESIGNED - NS	REVISED	-
nrt"		DRAWN - NS	REVISED	-
te 400	PLOT SCALE = 0.16666633 ' / IN.	CHECKED - TS	REVISED	-
	PLOT DATE = 6/27/2023	DATE - 6/2	9/2023 REVISED	-

STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN							F.A.I. RTE.	S
	NEW LENOX RD AND BRIGGS ST							FAI 80 21
							-	
	SCALE: 1"=20"	SHEET	OF	SHEETS	STA.	TO STA.		

F.A.I. RTE.	SECT	TION		COUNTY	SHEETS	SHEE NO.
80	FAI 80 21 STRUCTURE 8			WILL	883	599
			CONTRACT	NO. 621	₹29	
		ILLINOIS	D PROJECT			

DEPARTMENT OF TRANSPORTATION

SCALE: NONE

SHEETS STA.

CONTRACT NO. 62R29

NO.31

SHT

Z

LOT SCALE = 0.16666633 ' / IN.

PLOT DATE = 6/27/2023

CHECKED - TS

- 6/29/2023

DATE

REVISED

REVISED -