RAMP A

PR ℄ HOUBOLT RAMP A

VINE-PARTHENOCISSUS QUINQUEFOLIA ENGEL MANNII (ENGELMANNII VIRGINIA CREEPER), 1-GALLON POT, 470 EACH PLACED FRONT AND BACK OF WALL 2' O.C. SEE DETAIL ON SHEET 397

EX A/C AND ROW

PR ℄ HOUBOLT RAMP B

RAMP B

HOUBOLT RD

PR ℄ I-80

WB I-80

EB I-80

SEE SHEET NO. 400
MATCHLINE STA. 441+00.00

SEE SHEET NO. 402
MATCHLINE STA. 453+00.00

PR ℄ HOUBOLT RAMP D

RAMP D

PR ℄ HOUBOLT RAMP C

RAMP C

EX A/C AND ROW

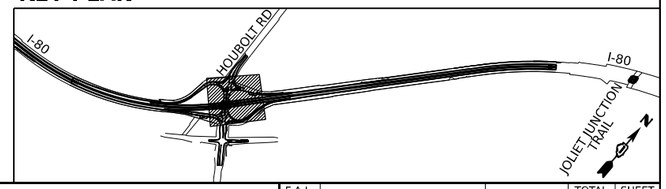
AC

0 50 100 150
SCALE IN FEET

LANDSCAPING LEGEND

- SEEDING, CLASS 1B, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT, 4", AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT (4") AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 4, EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 2" TOPSOIL EXCAVATION AND PLACEMENT (4")
- SEEDING, CLASS 4B, EROSION CONTROL BLANKET, COARSE SAND PLACEMENT, 2" AND TOPSOIL EXCAVATION AND PLACEMENT (4")
- WETLAND SEEDING, CLASS 4B EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 12"

KEY PLAN



MODEL: BL_PR_I80 - Plan 4 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystemspw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/20-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS

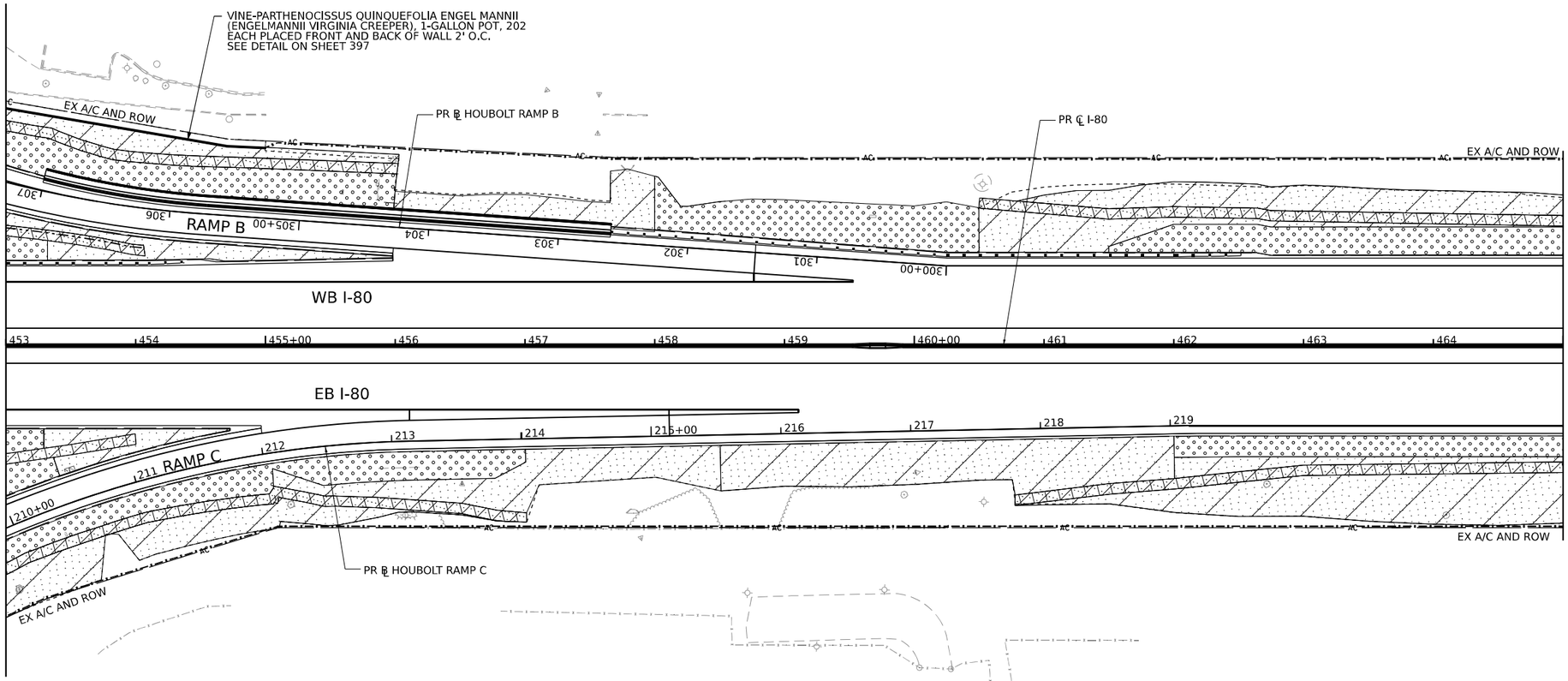
USER NAME = amkluver	DESIGNED - VLJ	REVISED -	
	DRAWN - CEC	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - JMG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 441+00.00 TO STA. 453+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	401
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



N

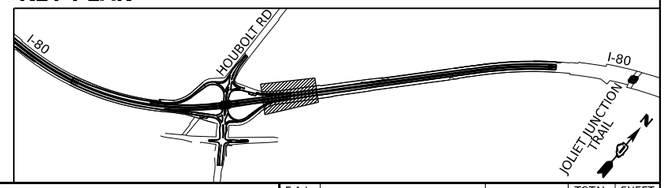
0 50 100 150

SCALE IN FEET

LANDSCAPING LEGEND

- SEEDING, CLASS 1B, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT, 4", AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT (4") AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 4, EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 2" TOPSOIL EXCAVATION AND PLACEMENT (4")
- SEEDING, CLASS 4B, EROSION CONTROL BLANKET, COARSE SAND PLACEMENT, 2" AND TOPSOIL EXCAVATION AND PLACEMENT (4")
- WETLAND SEEDING, CLASS 4B EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 12"

KEY PLAN



MODEL: BL_PR_I80 - Plan 5 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw-1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/20-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS

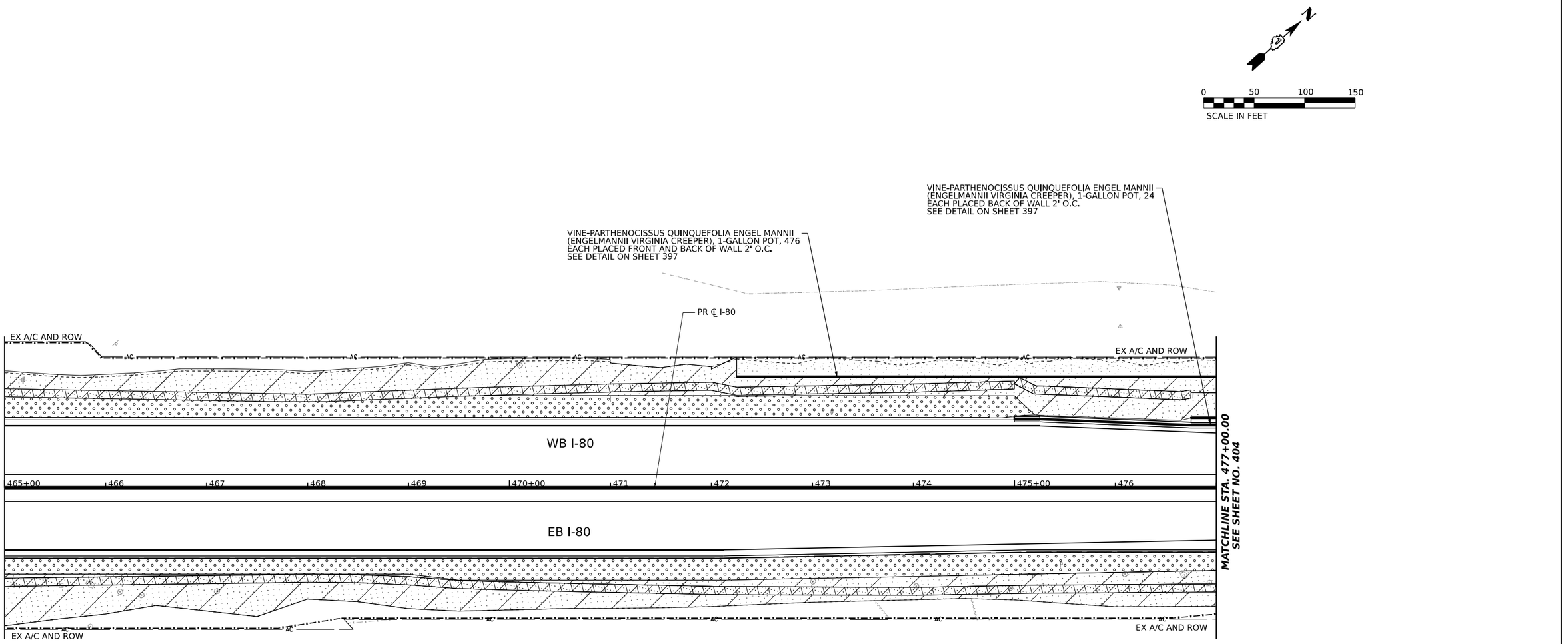
USER NAME = amkluver		DESIGNED -	VLJ	REVISED -	
		DRAWN -	CEC	REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED -	JMG	REVISED -	
PLOT DATE = 6/23/2023		DATE -	6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 453+00.00 | TO STA. 465+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	402
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



LANDSCAPING LEGEND

SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT, 4",
AND FERTILIZER NUTRIENTS

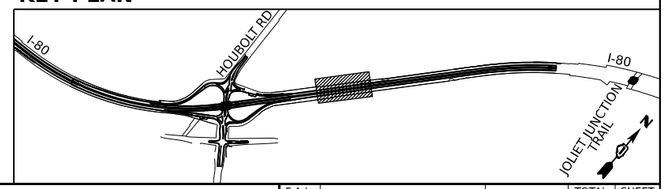
SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT (4")
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT (4")

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT (4")

WETLAND
SEEDING, CLASS 4B
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 12"

KEY PLAN



MODEL: BL_PR_I80 - Plan 6 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/2D-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS

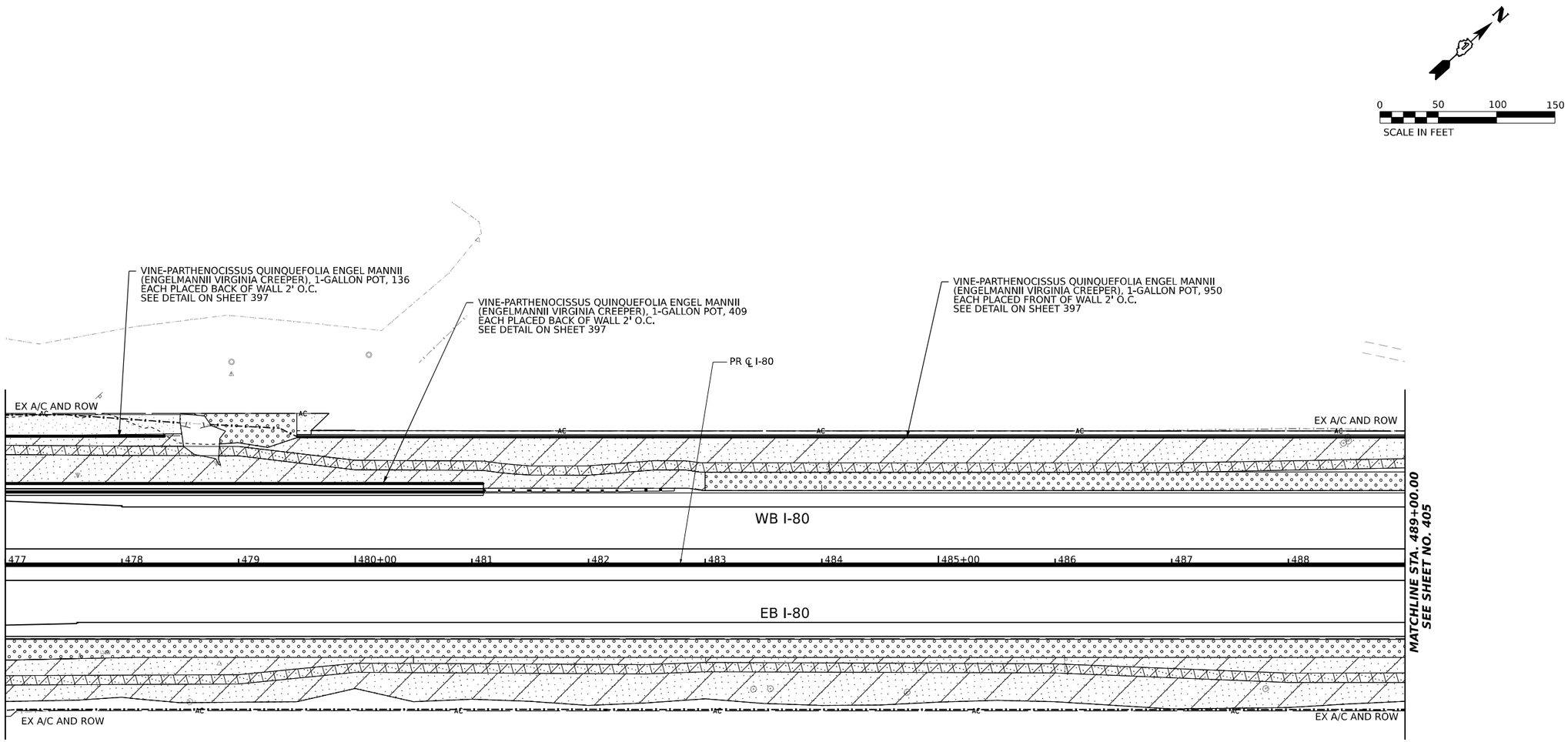
USER NAME = amkluver		DESIGNED - VLJ		REVISED -	
		DRAWN - CEC		REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - JMG		REVISED -	
PLOT DATE = 6/23/2023		DATE - 6/26/23		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 465+00.00 | TO STA. 477+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	403
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



LANDSCAPING LEGEND

SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT, 4",
AND FERTILIZER NUTRIENTS

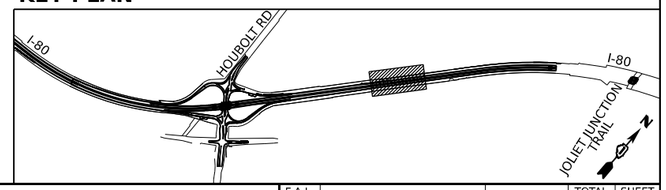
SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT (4")
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT (4")

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT (4")

WETLAND
SEEDING, CLASS 4B
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 12"

KEY PLAN



TRANSYSTEMS

USER NAME = amkluver	DESIGNED - VLJ	REVISED -	
	DRAWN - CEC	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - JMG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

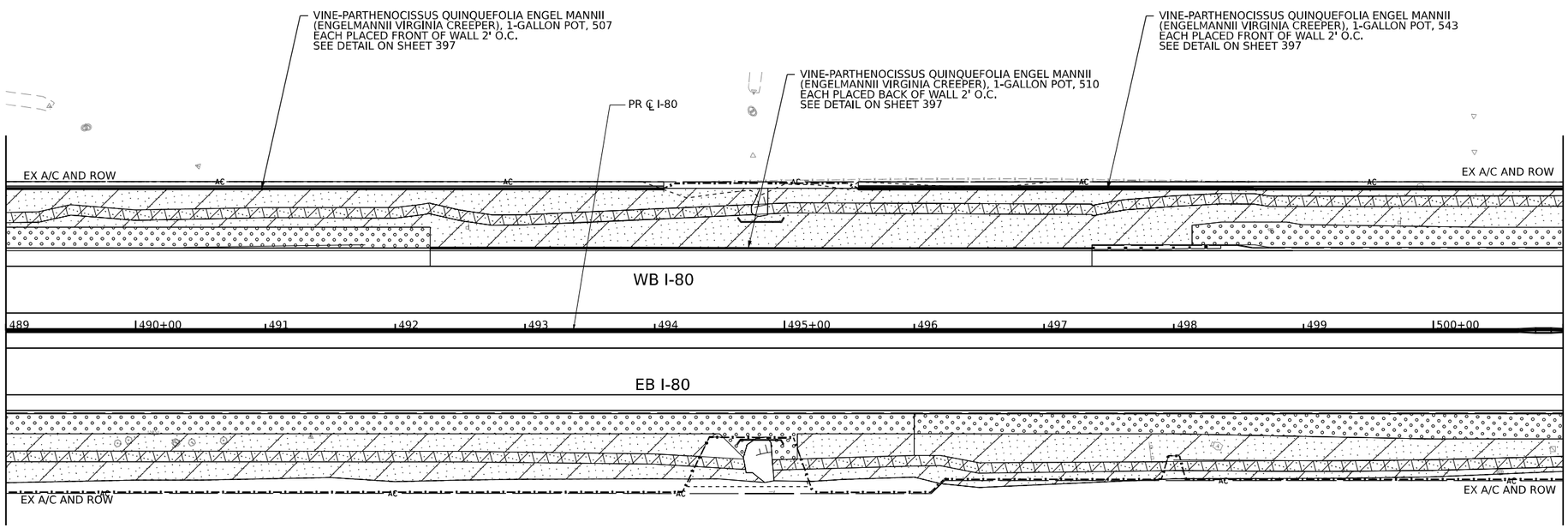
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 477+00.00 | TO STA. 489+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	404
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: BL_PR_I80 - Plan 7 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401140118002202-TranSystems/CAD/62R27/Sheets/204-Landscaping/D162R27_Landscaping Sheets



0 50 100 150

SCALE IN FEET

LANDSCAPING LEGEND

SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT, 4",
AND FERTILIZER NUTRIENTS

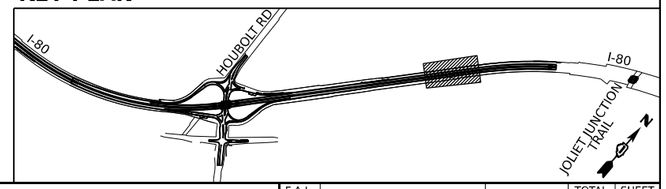
SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT (4")
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT (4")

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT (4")

WETLAND
SEEDING, CLASS 4B
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 12"

KEY PLAN



MODEL: BL_PR_I80 - Plan 8 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw-1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/20-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS

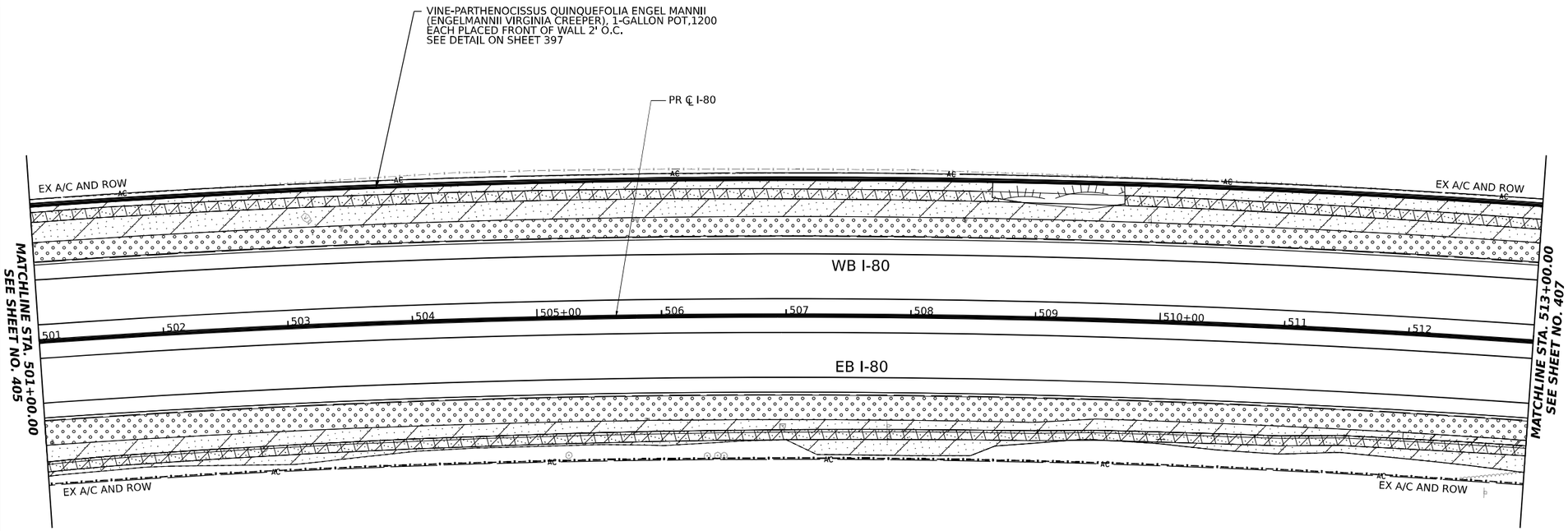
USER NAME = amkluver		DESIGNED - VLJ	REVISED -	
		DRAWN - CEC	REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - JMG	REVISED -	
PLOT DATE = 6/23/2023		DATE - 6/26/23	REVISED -	

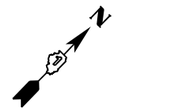
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 489+00.00 | TO STA. 501+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	405
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			





LANDSCAPING LEGEND

SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT, 4",
AND FERTILIZER NUTRIENTS

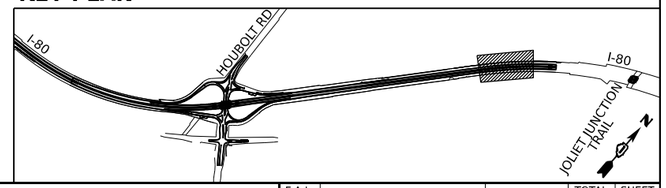
SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT (4")
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT (4")

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT (4")

WETLAND
SEEDING, CLASS 4B
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 12"

KEY PLAN



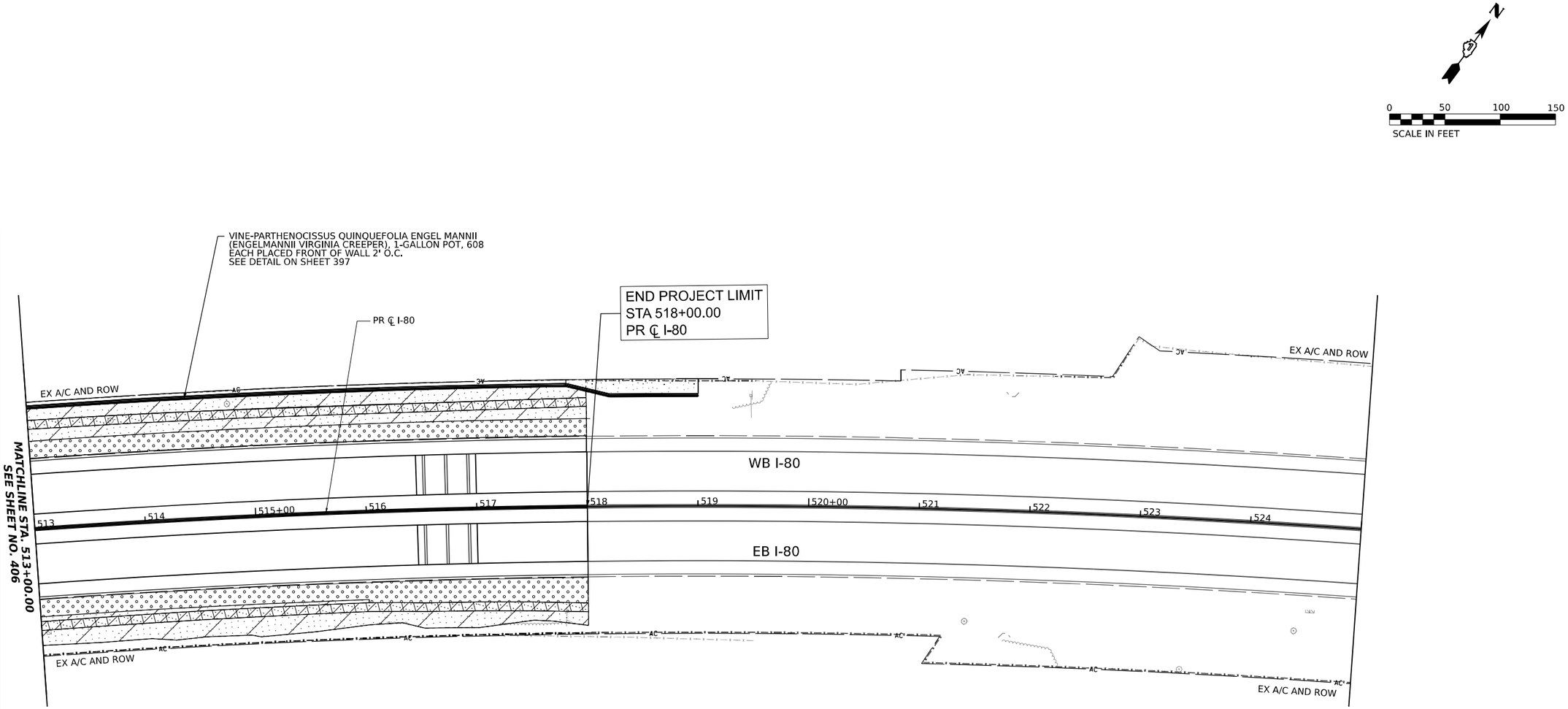
MODEL: BL_PR_I80 - Plan 9 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/20-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS	USER NAME = amkluver	DESIGNED - VLJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - CEC	REVISED -	
	PLOT SCALE = 0.16666633 ' / in.	CHECKED - JMG	REVISED -	
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 501+00.00 | TO STA. 513+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	406
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



LANDSCAPING LEGEND

SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT, 4",
AND FERTILIZER NUTRIENTS

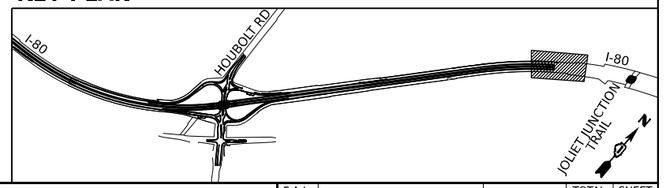
SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT (4")
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT (4")

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT (4")

WETLAND
SEEDING, CLASS 4B
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 12"

KEY PLAN



MODEL: BL_PR_I80 • Plan 10 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/20-Landscaping/D162R27_Landscaping Sheets

TRANSYSTEMS

USER NAME = amkluver	DESIGNED - VLJ	REVISED -
	DRAWN - CEC	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLANS
I–80

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 513+00.00 | TO STA. 518+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	407
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	RR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

USER NAME = footemj	DESIGNED - IP	REVISED -	
	DRAWN - IP	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	408
	TS-05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\d22x34\CADData\CADsheets\ts05.dgn

ts05.dms 3/4/2019 11:21:59 AM User=footemsi

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

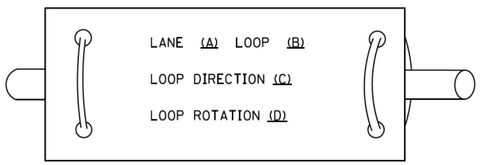
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

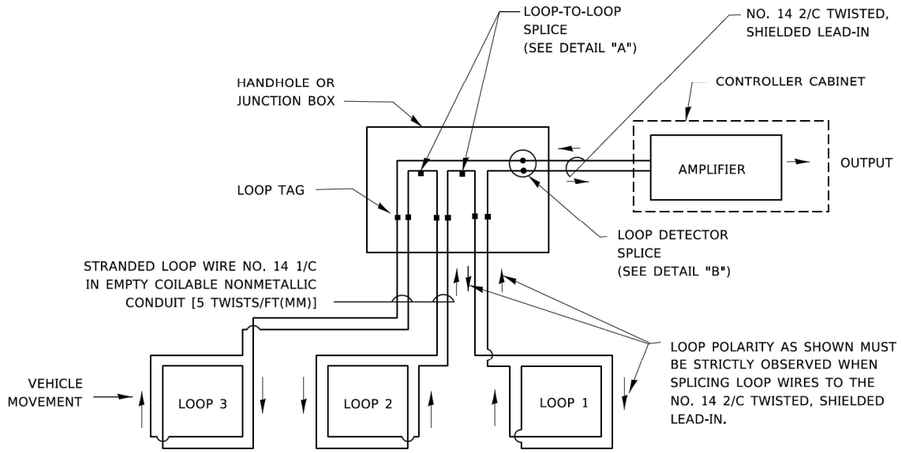


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

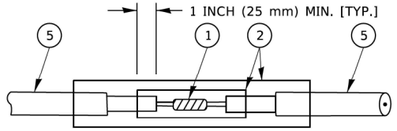
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

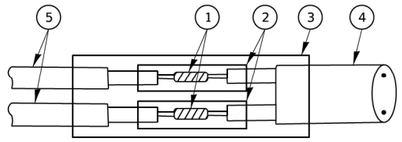


DETECTOR LOOP WIRING SCHEMATIC

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

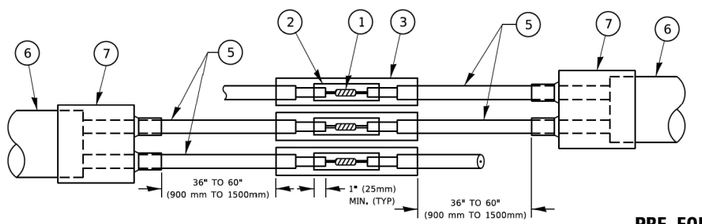


DETAIL "A"
LOOP-TO-LOOP SPLICE



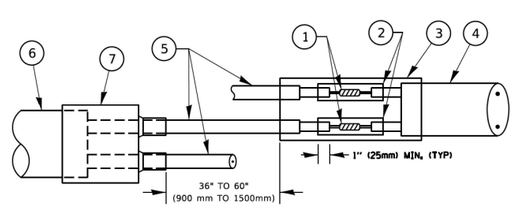
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

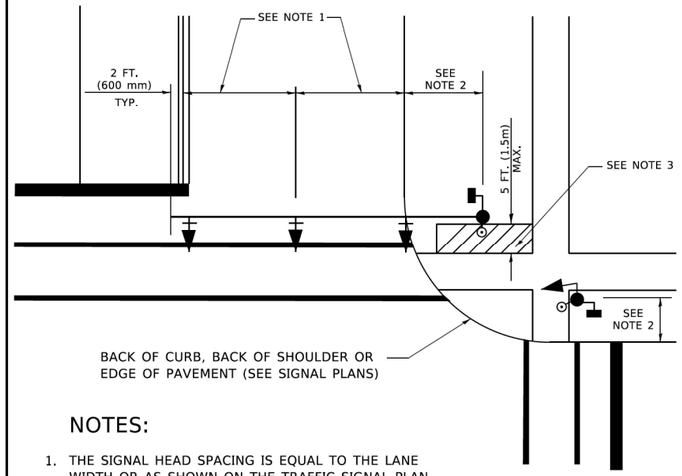
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	409
	TS-05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

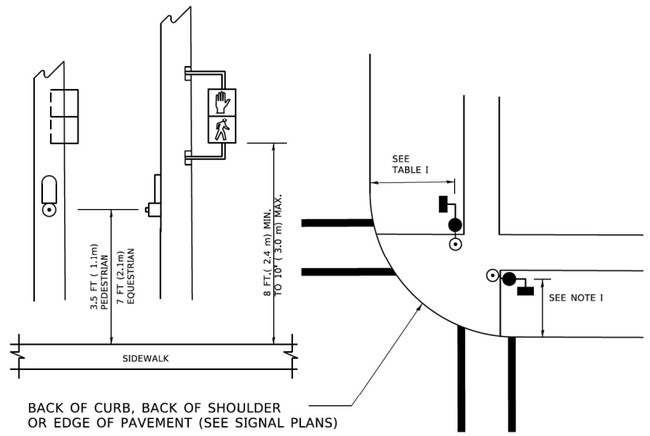
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

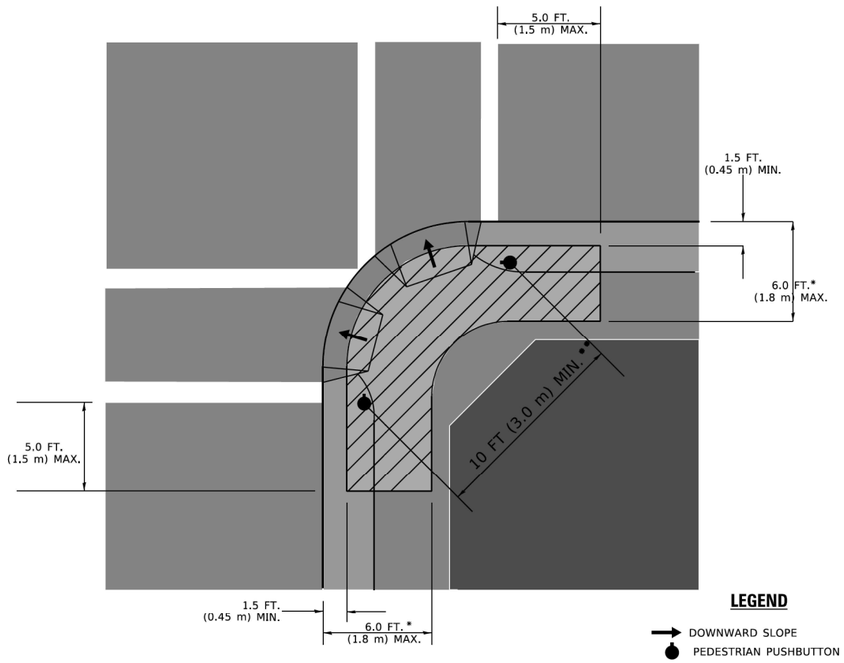
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* 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.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT 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 LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

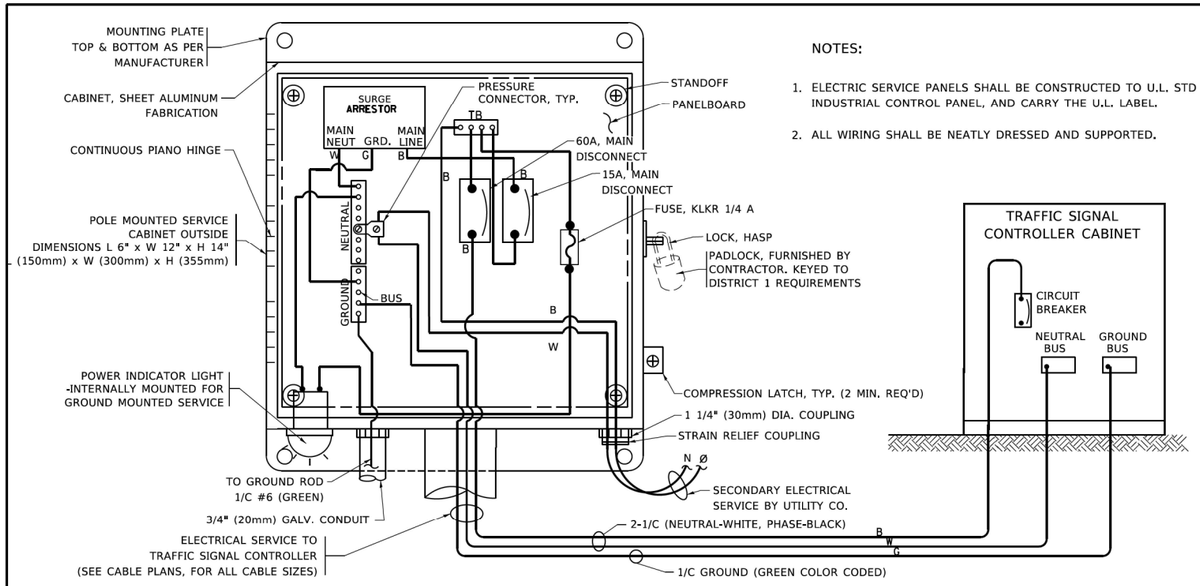
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	410
	TS-05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\L084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Districts\d22x34\CADData\CADsheets\ts05.dgn

ts05.dgn 3/4/2019 11:22:44 AM User=footemj



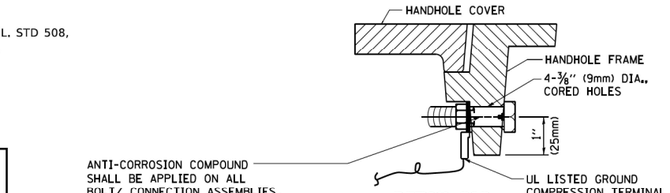
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

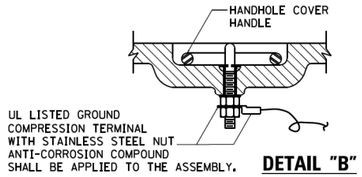
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

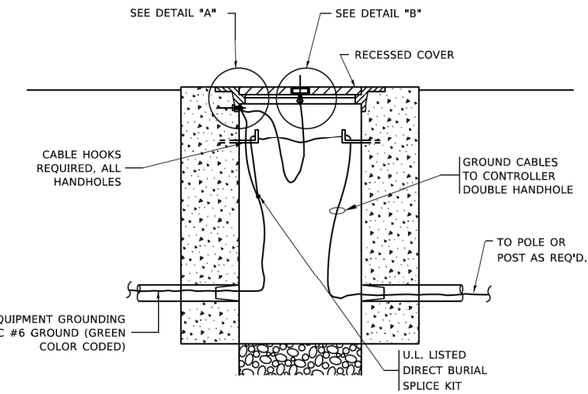


DETAIL "B"

NOTES:

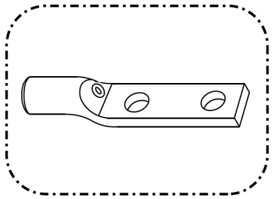
GROUNDING SYSTEM

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



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

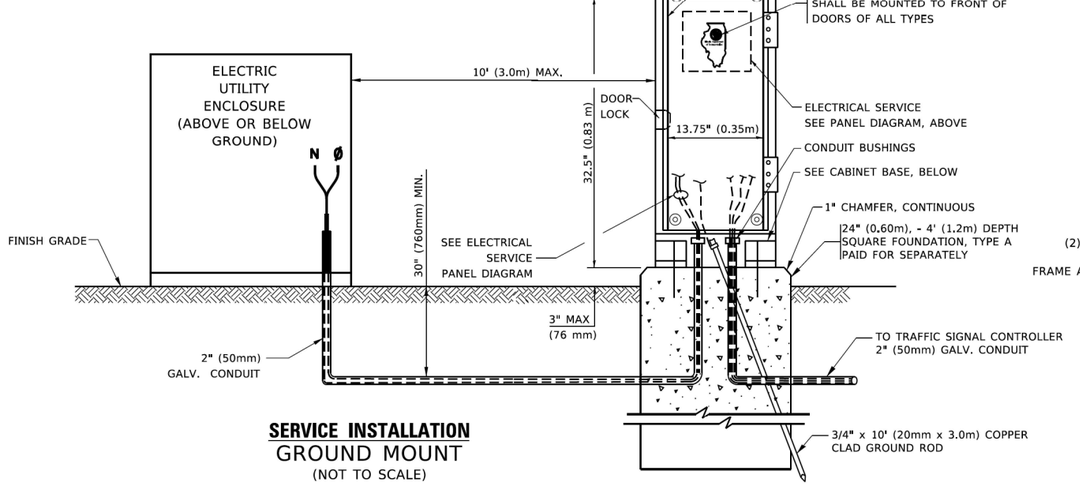


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

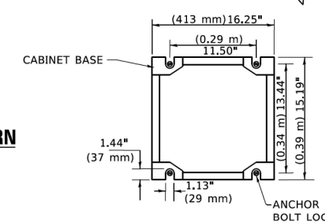
NOTES:

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



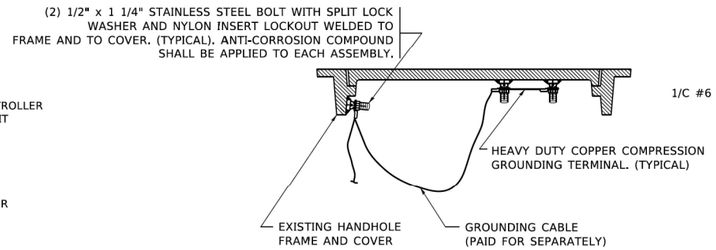
SERVICE INSTALLATION
GROUND MOUNT

(NOT TO SCALE)



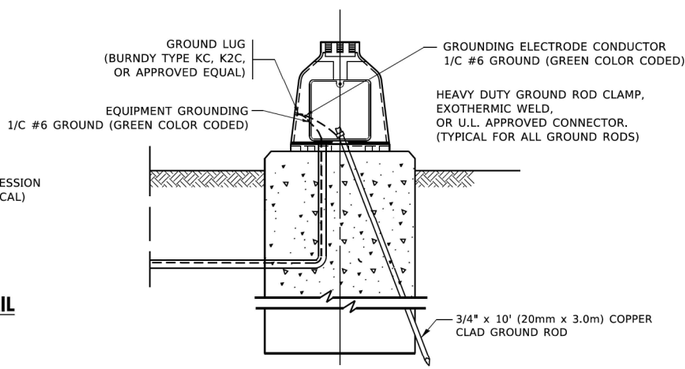
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1 \Projects\Dist\Std22x34\CADData\CADsheets\ts05.dgn

USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

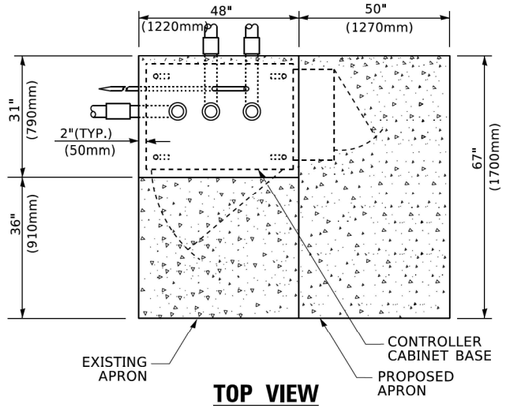
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

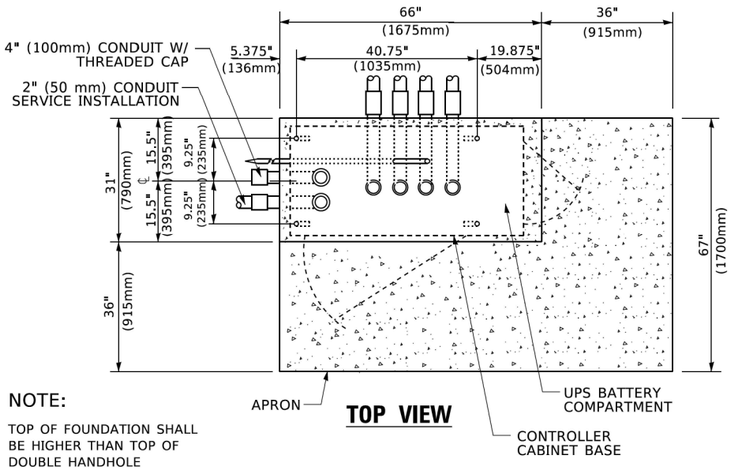
SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	411
	TS–05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

ts05.dms 3/4/2019 11:23:10 AM User=footemj



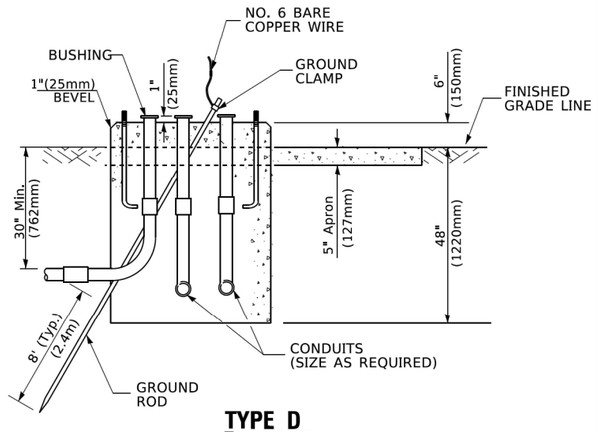
TOP VIEW



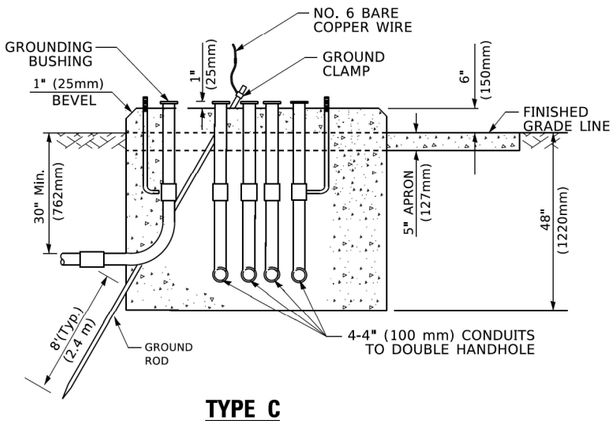
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

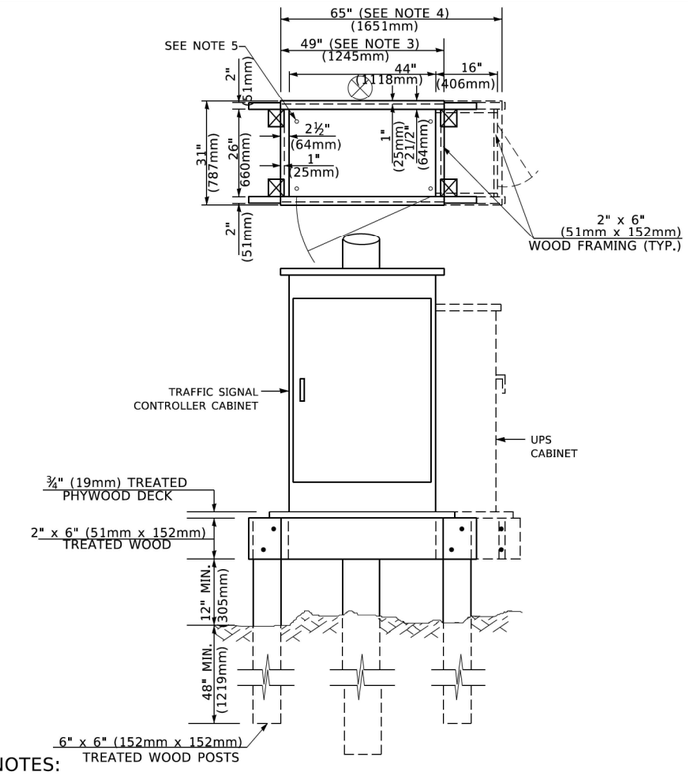
TOP VIEW



TYPE D
FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	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 (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

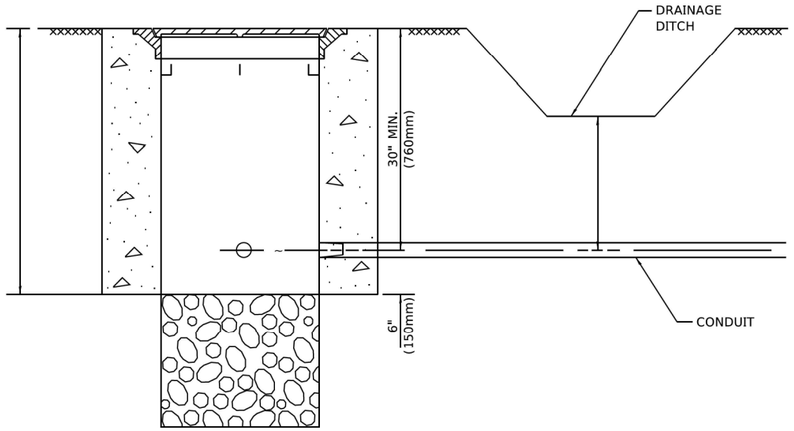
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	412
	TS-05	CONTRACT NO.62R27		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\tsd\tsd22x34\CADData\CADSheets\tst05.dgn

tst05.dgn 3/4/2019 11:23:29 AM User=footemj

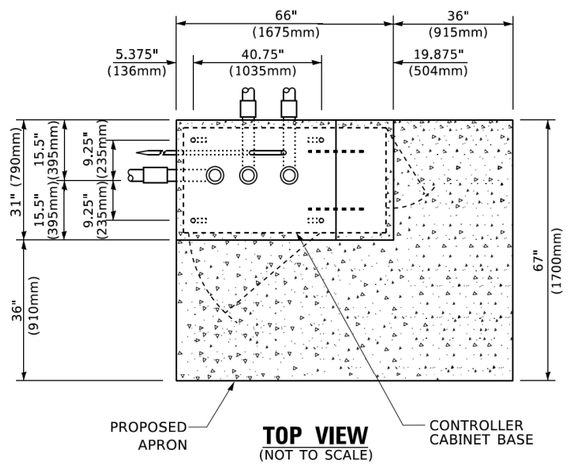


NOTES:

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

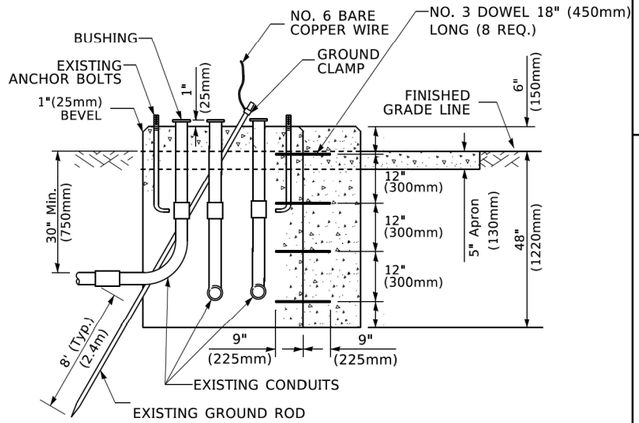
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



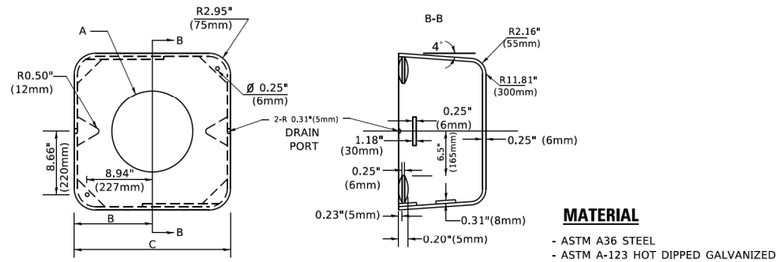
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL

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

A	B	C	HEIGHT	WEIGHT
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)

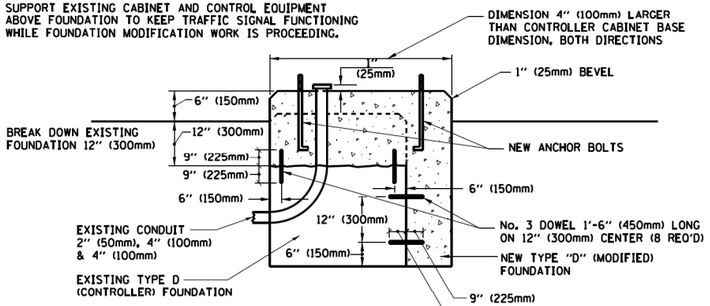
SHROUD

NOTES:

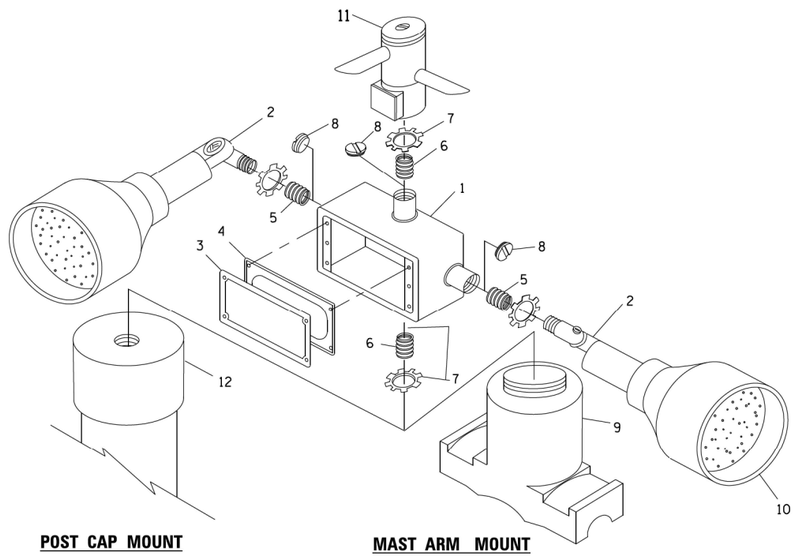
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



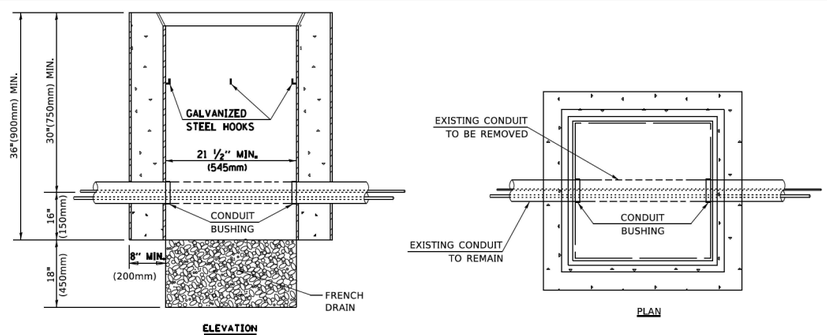
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	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
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/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.



NOTES:

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 = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

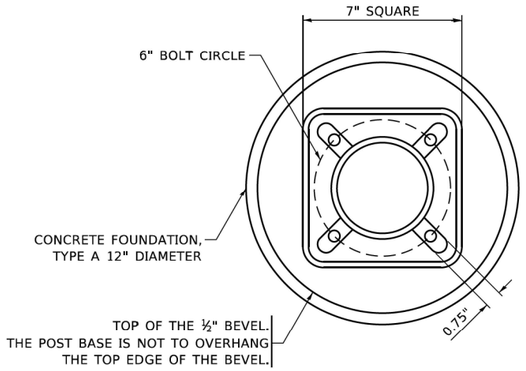
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	413
	TS-05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEC.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\34s5td22x34\CADData\CADsheets\ts05.dgn

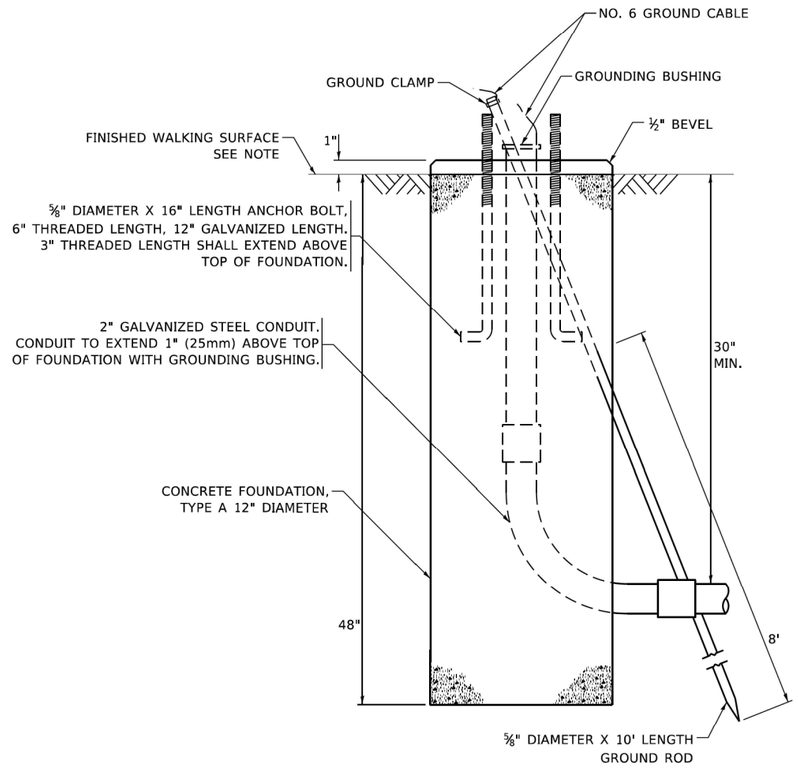
ts05.dms 3/4/2019 11:23:51 AM User=footemj



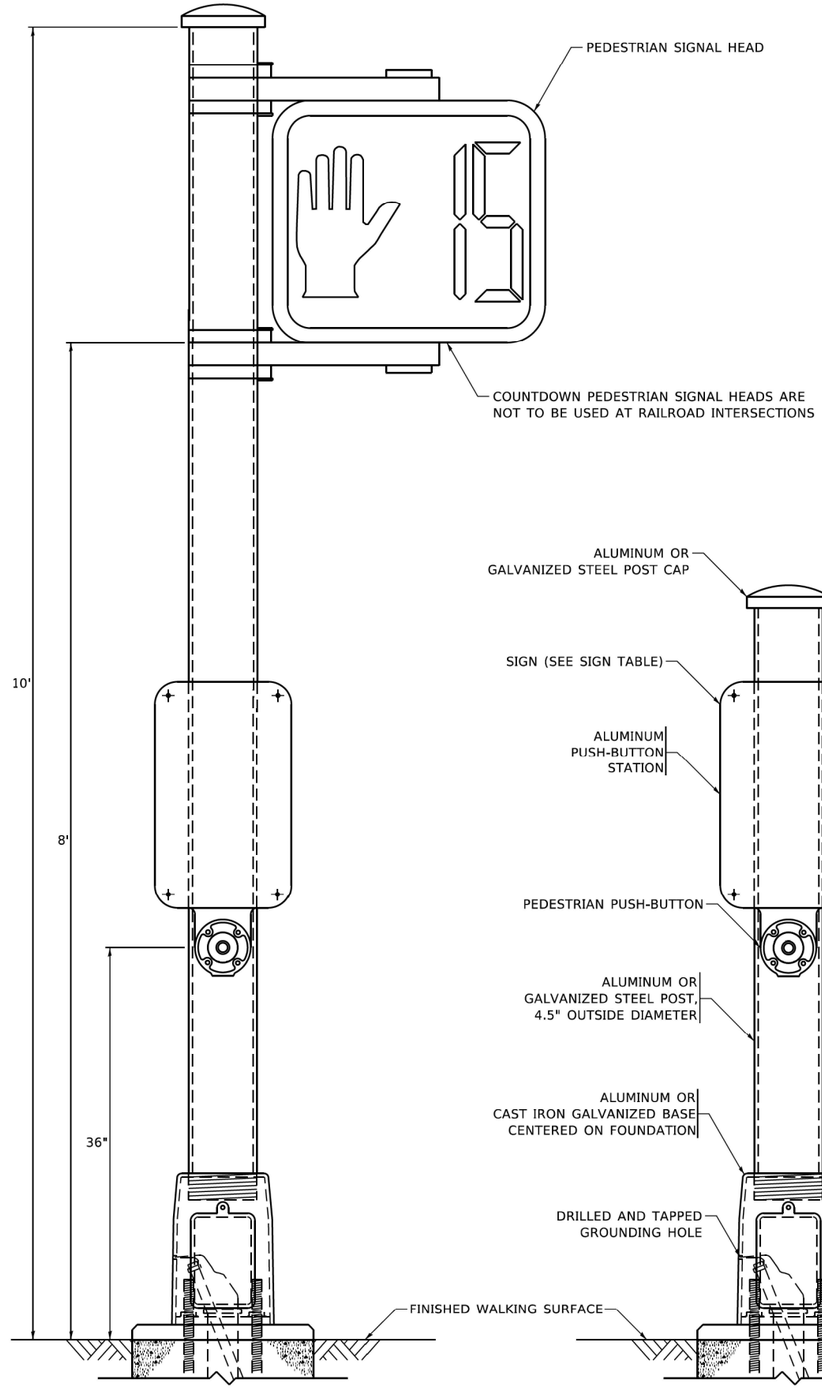
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER

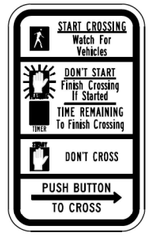


PEDESTRIAN SIGNAL POST, 10 FT.

PEDESTRIAN SIGNAL POST, 5 FT.

R10–3b

R10–3d



R10–3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT1Documents\IDOT Offices\District 1\Projects\D1sStd22x34\CADData\CADsheets\ts05.dgn

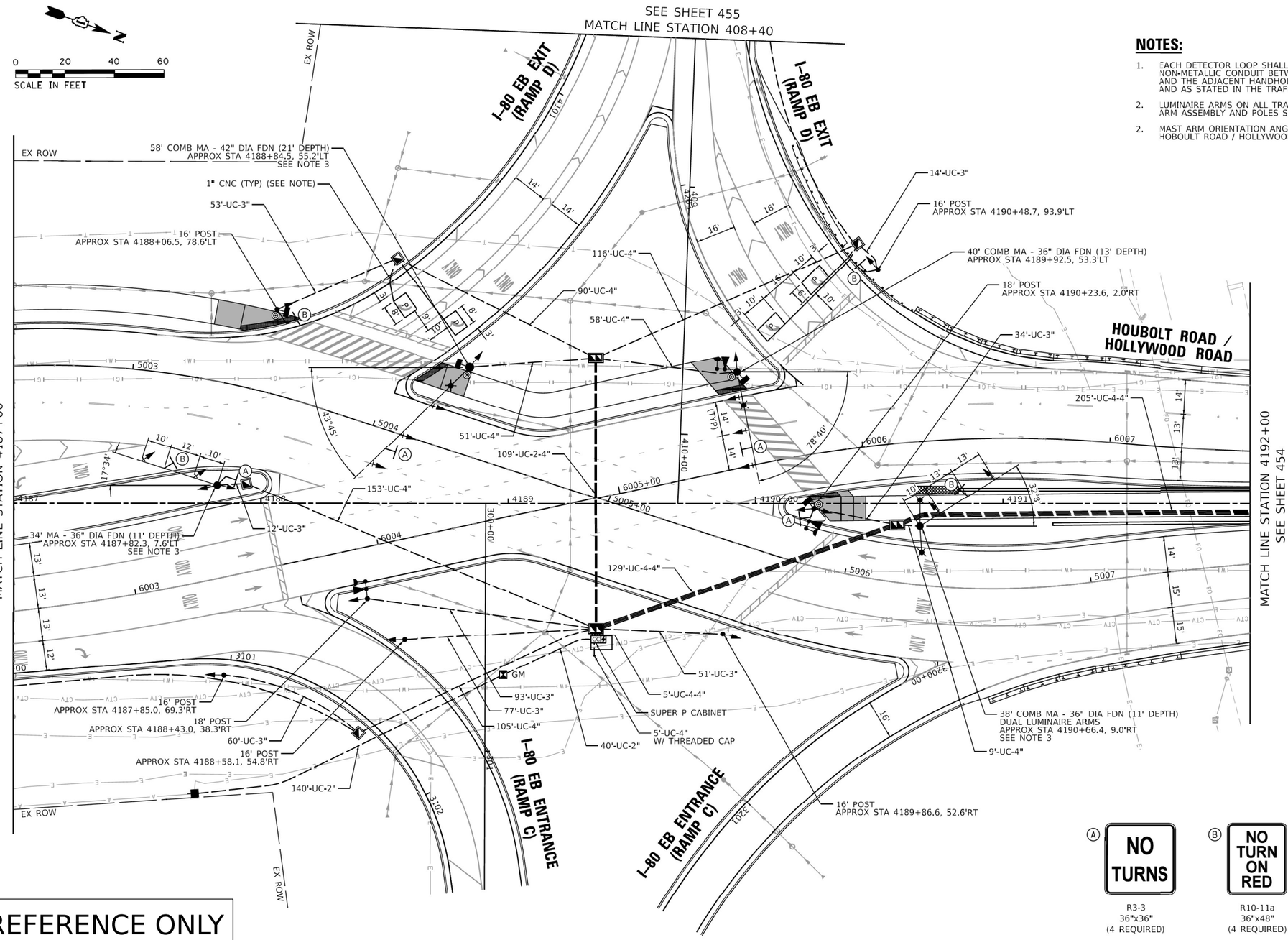
USER NAME = gaglianobt	DESIGNED - IP	REVISED - 10-15-2020	
	DRAWN - IP	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 11/23/2020	DATE - 10-15-2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	414
	TS–05	CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 12 FT.
2. MAST ARM ORIENTATION ANGLES SHOWN ARE MEASURED FROM HOUBOLT ROAD / HOLLYWOOD ROAD CENTERLINE.

Ⓐ **NO TURNS**
R3-3
36"x36"
(4 REQUIRED)

Ⓑ **NO TURN ON RED**
R10-11a
36"x48"
(4 REQUIRED)

TS 21925
ECON 249

FOR REFERENCE ONLY

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-TS TSD162R27-SHT-TS-Plan_01.dgn

TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -
		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 3)
HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 EB RAMPS

SCALE: 1"=20' | SHEET 1 OF 16 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	453
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-TS TSD162R27-SHT-TS-Plan_01.dgn

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

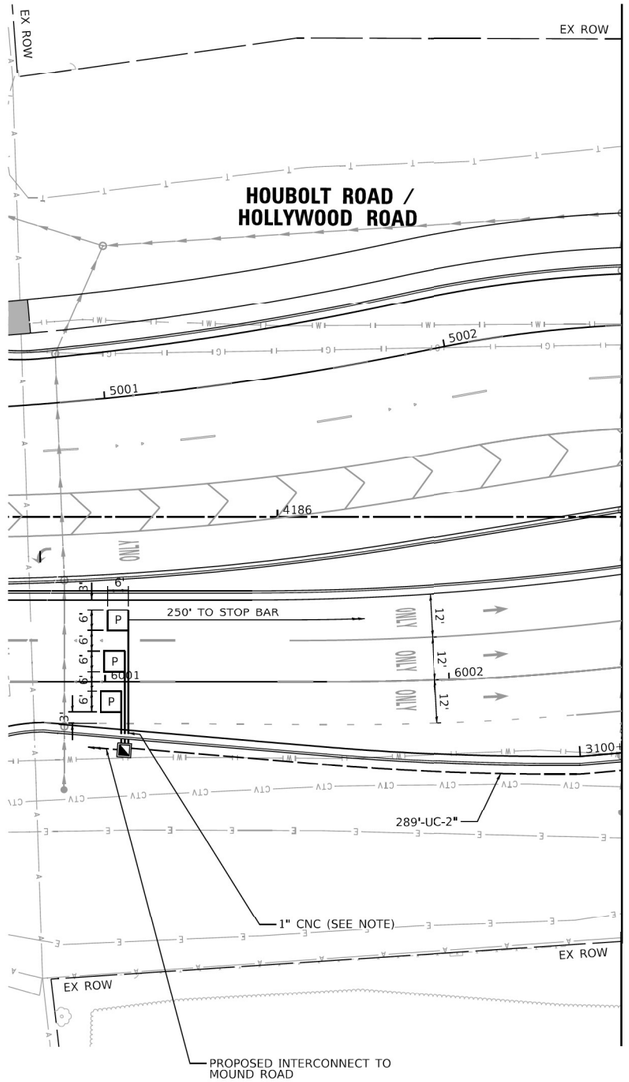
USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

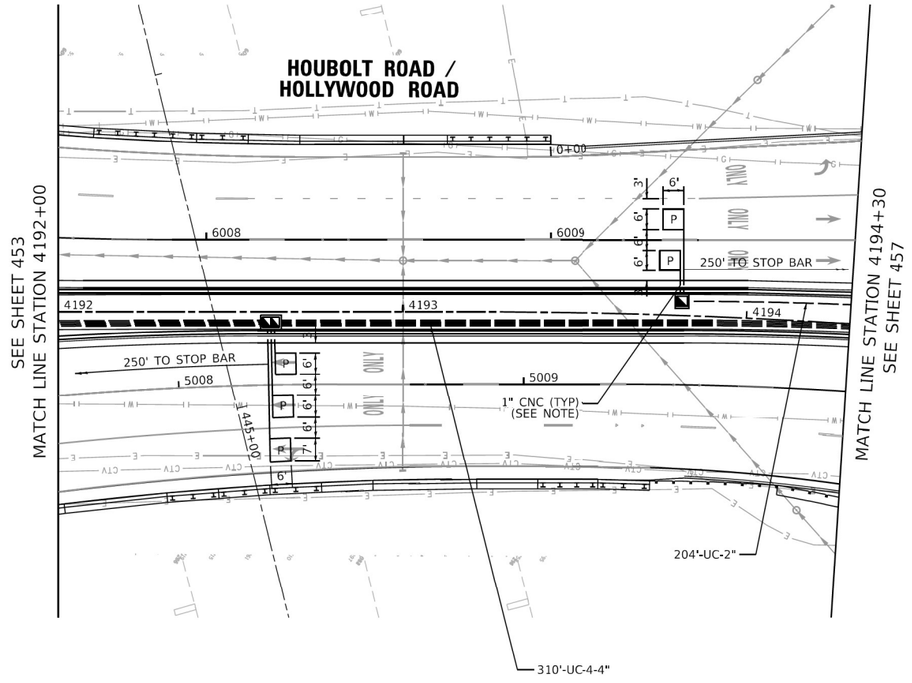
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN (SHEET 1 OF 4)
HOUBOLT AT I-80 EASTBOUND RAMPS

SCALE: NONE | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	415
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FOR REFERENCE ONLY

0 20 40 60
SCALE IN FEET

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw:\\tspwint01.ae.transystems.com:transystems-pw1\Documents\Projects\CH401\40118022\02-TranSystems\CAD\62R27\Sheets\22-ITS TSD16R27-SHT-TS-Plan 02.dgn

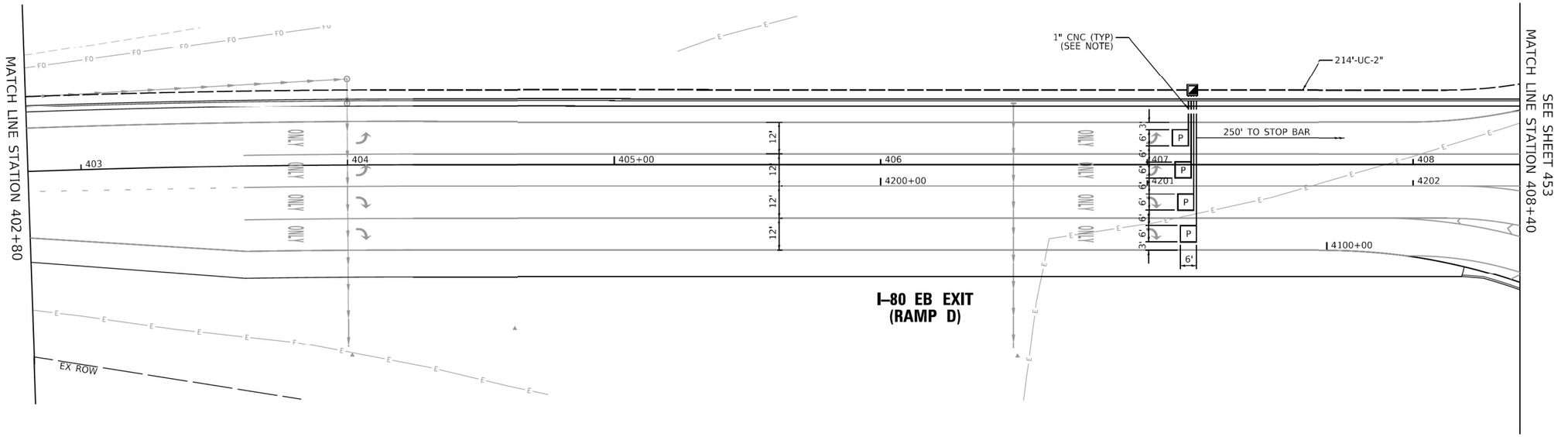
TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -	CITY OF JOLIET DEPARTMENT OF PUBLIC WORKS	TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 3) HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 RAMPS
		DRAWN - NK	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED		SCALE: 1"=20' | SHEET 2 OF 16 SHEETS | STA. - TO STA. -
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -		

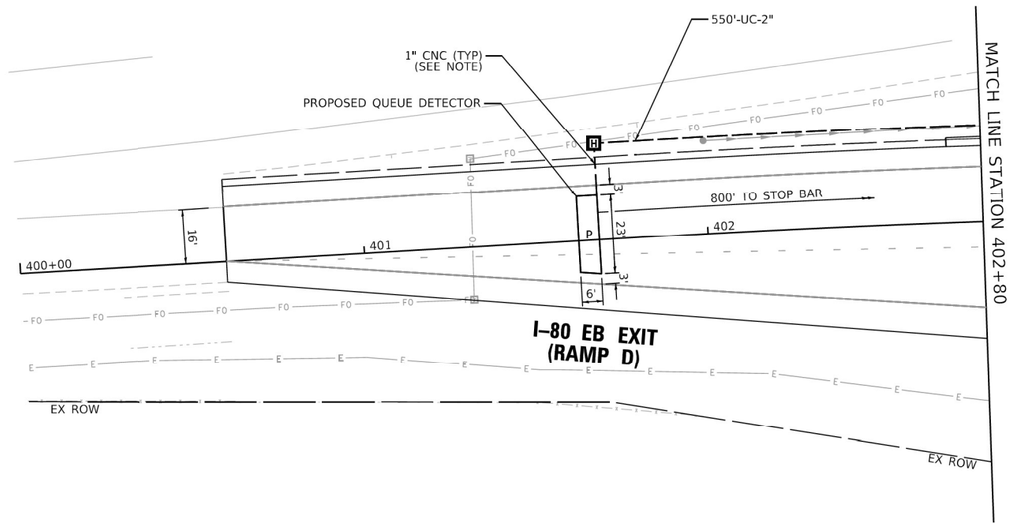
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	454
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

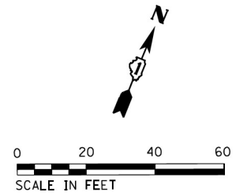
MODEL: Default
FILE NAME: pw:\\transystems-pw.bentley.com:transystems-pw1-Hosted\Documents\Projects_2018\CH401\40118022\02-TranSystems\CAD\62R27\Sheets\22-ITS TSD16R27-SHT-TS-Plan 02.dgn

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6600	USER NAME = amkluver	DESIGNED - PTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN (SHEET 2 OF 4) HOUBOLT AT I-80 EASTBOUND RAMPS
		DRAWN - PTJ	REVISED -		
	PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -		SCALE: NONE | SHEET 2 OF 12 SHEETS | STA. TO STA.
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	416
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		







NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FOR REFERENCE ONLY

TS 21925
ECON 249

TranSystems

USER NAME = eadruckrey	DESIGNED - GR	REVISED -	
	DRAWN - NK	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED	
PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -	

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 3 OF 3)
HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 EB RAMPS

SCALE: 1"=20' | SHEET 3 OF 16 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	455
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

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

USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

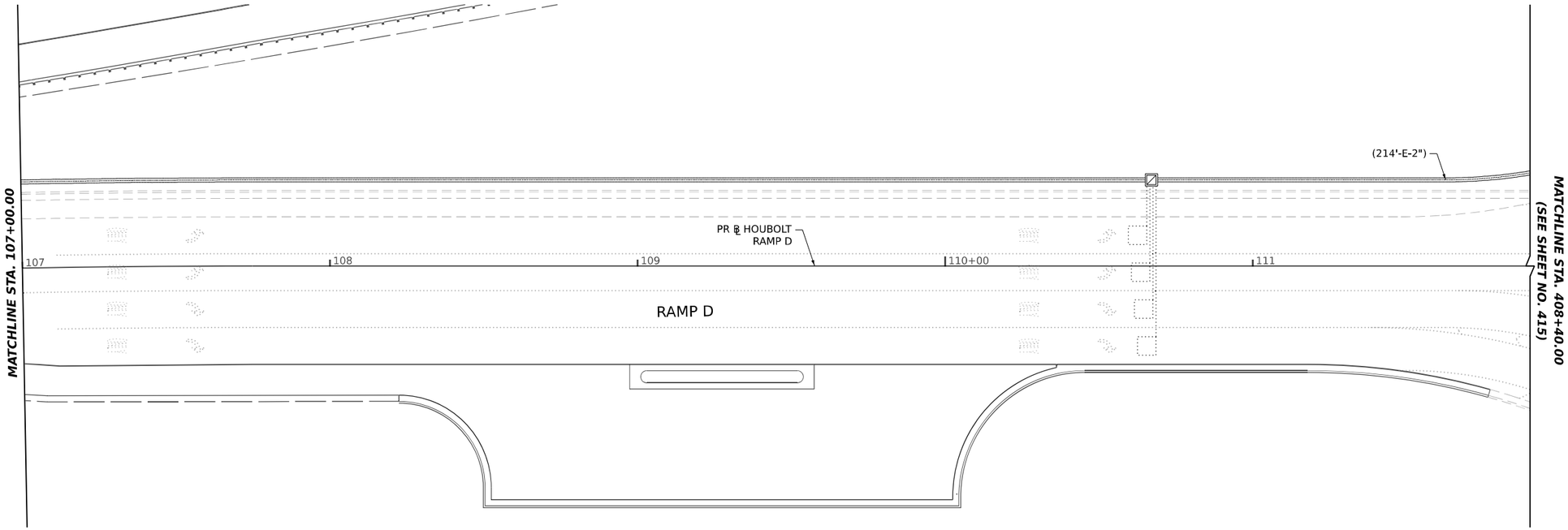
TRAFFIC SIGNAL PLAN (SHEET 3 OF 4)
HOUBOLT AT I–80 EASTBOUND RAMPS

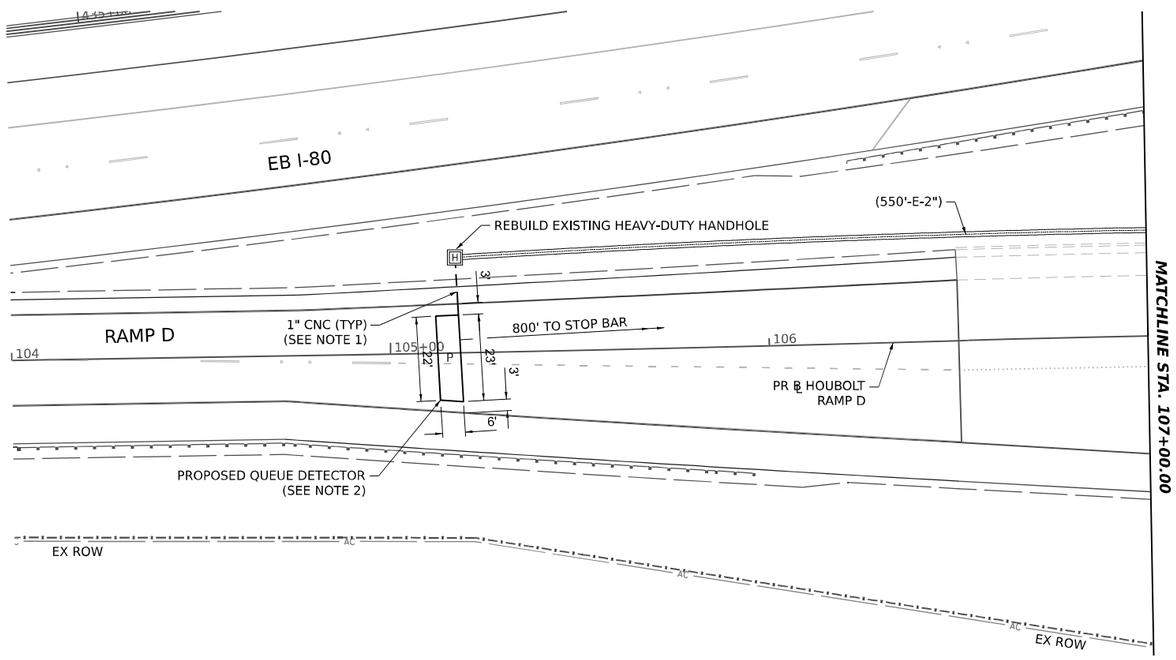
SCALE: NONE | SHEET 3 OF 12 SHEETS | STA. | TO STA.

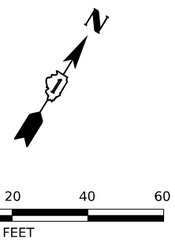
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	417
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS\D162R27-SHT-TS-Plan_03.dgn

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS\D162R27-SHT-TS-Plan_03.dgn







NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

2. ABANDON EXISTING DETECTION LOOPS. NEW PREFORMED LOOPS SHALL BE INSTALLED AT 105+15.

TS 21925
ECON 249

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

USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN (SHEET 4 OF 4)
HOUBOLT AT I–80 EASTBOUND RAMPS

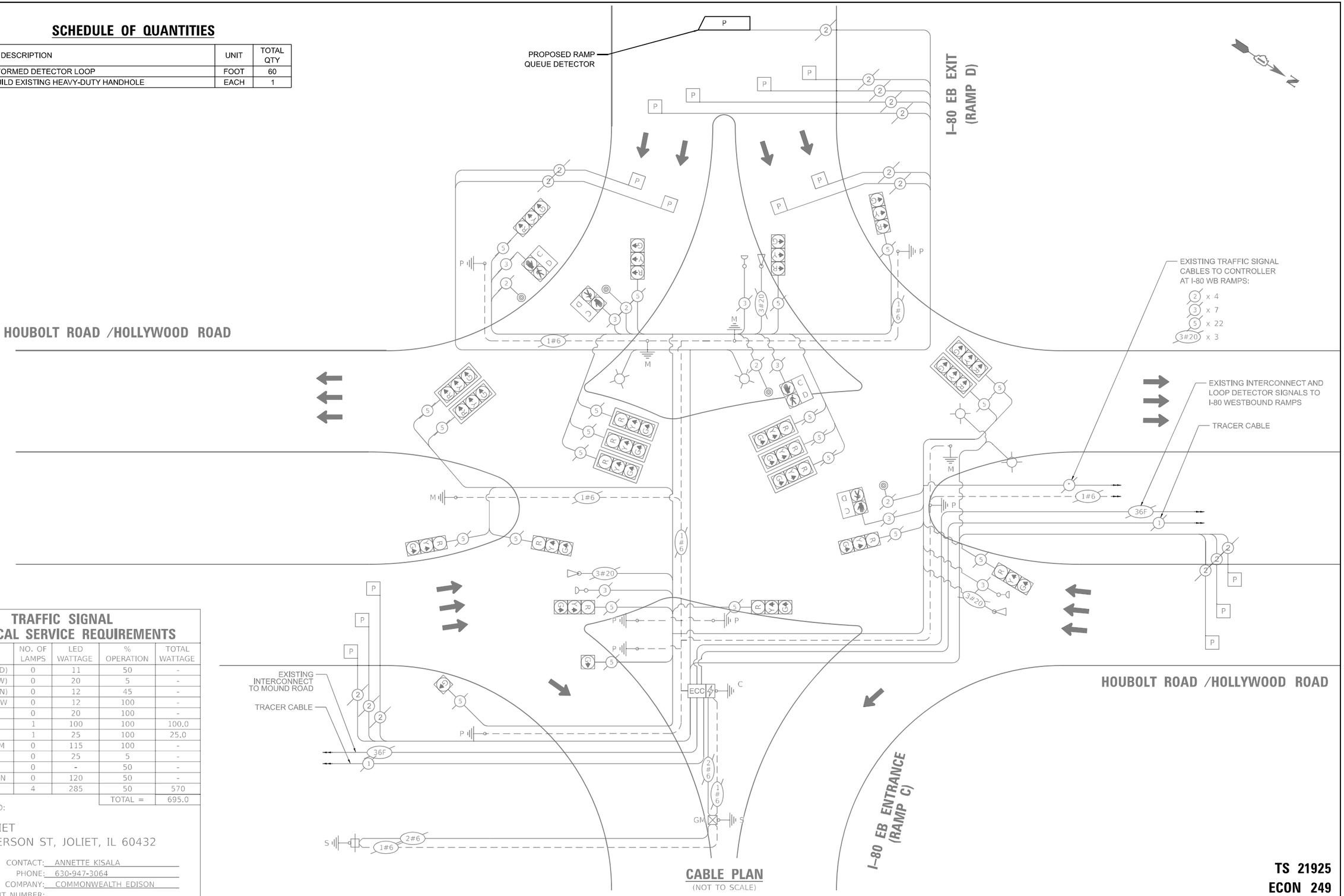
SCALE: 1"=20' | SHEET 4 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	418
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/C140114011800222/02-TranSystems/CAD/62R27/Sheets/23-ITS TS/D162R27-SHT-TS-Plan_04.dgn

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
PREFORMED DETECTOR LOOP	FOOT	60
REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	1



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	0	11	50	-
(YELLOW)	0	20	5	-
(GREEN)	0	12	45	-
CONTINUOS ARROW	0	12	100	-
PED. SIGNAL	0	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
PTZ VIDEO SYSTEM	0	115	100	-
BLANK-OUT SIGN	0	25	5	-
FLASHER	0	-	50	-
STREET NAME SIGN	0	120	50	-
LUMINAIRE	4	285	50	570
			TOTAL =	695.0

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON ST, JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: 630-947-3064
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

TS 21925
ECON 249

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6600

USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

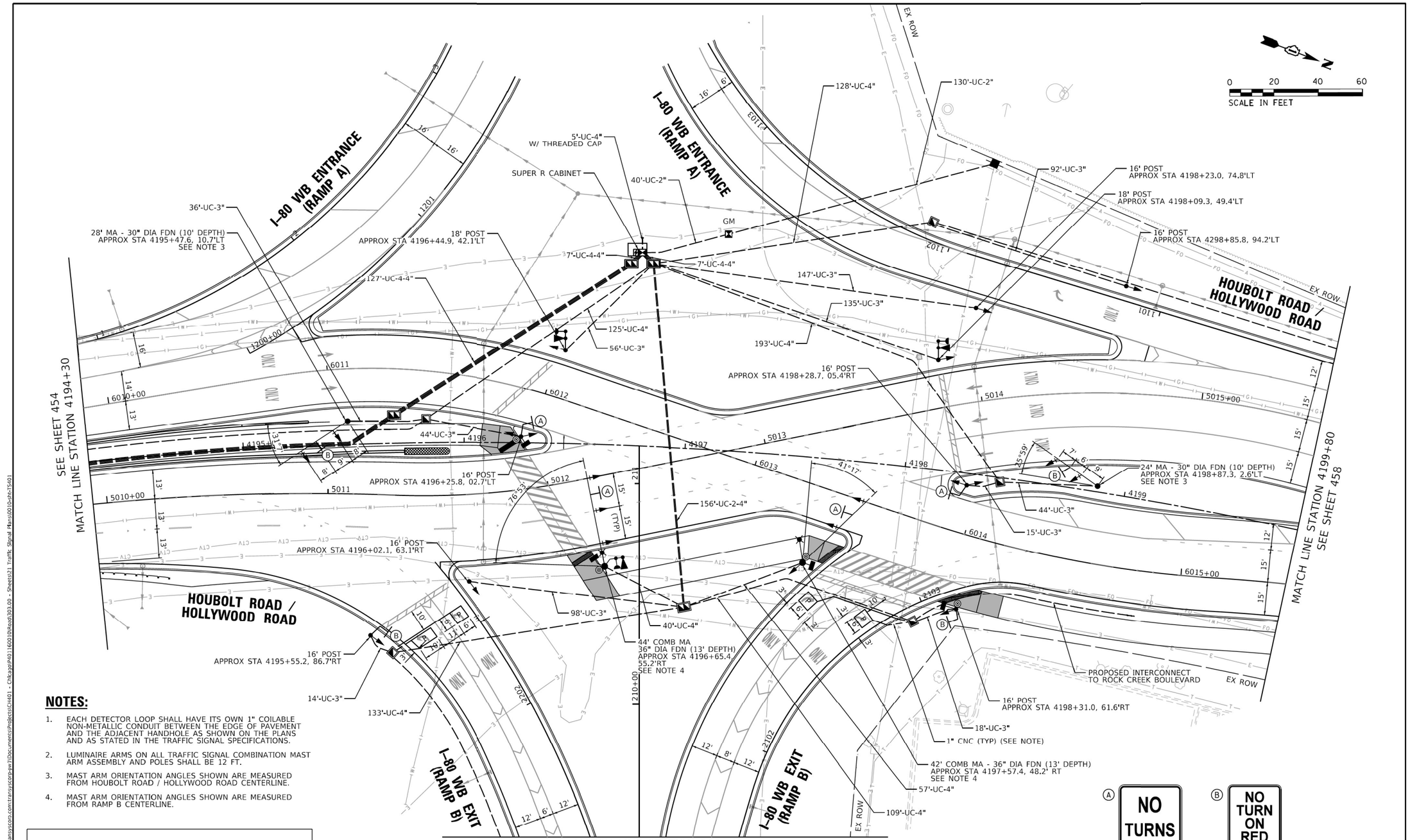
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
HOUBOLT AT I–80 EASTBOUND RAMPS

SCALE: NONE | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	419
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-ew.bentley.com:transystems-pw1-4/Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TSD16R27-SHT-TS-Plan_05.dgn



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 12 FT.
3. MAST ARM ORIENTATION ANGLES SHOWN ARE MEASURED FROM HOUBOLT ROAD / HOLLYWOOD ROAD CENTERLINE.
4. MAST ARM ORIENTATION ANGLES SHOWN ARE MEASURED FROM RAMP B CENTERLINE.

FOR REFERENCE ONLY

(A) NO TURNS — R3-3, 36"x36", (4 REQUIRED)

(B) NO TURN ON RED — R10-11a, 36"x48", (4 REQUIRED)

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-Hosted/Documents/Projects_2018/CH401/1801800122/02-TranSystems/CAD/62R27/Sheets/22-TS TSD162R27-SHT-TS-Plan_06.dgn

TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -
		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - GR	REVISED
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 3)
HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 WB RAMPS

SCALE: 1"=20' | SHEET 1 OF 14 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	457
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-Hosted/Documents/Projects_2018/CH401/1801800122/02-TranSystems/CAD/62R27/Sheets/22-TS TSD162R27-SHT-TS-Plan_06.dgn

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

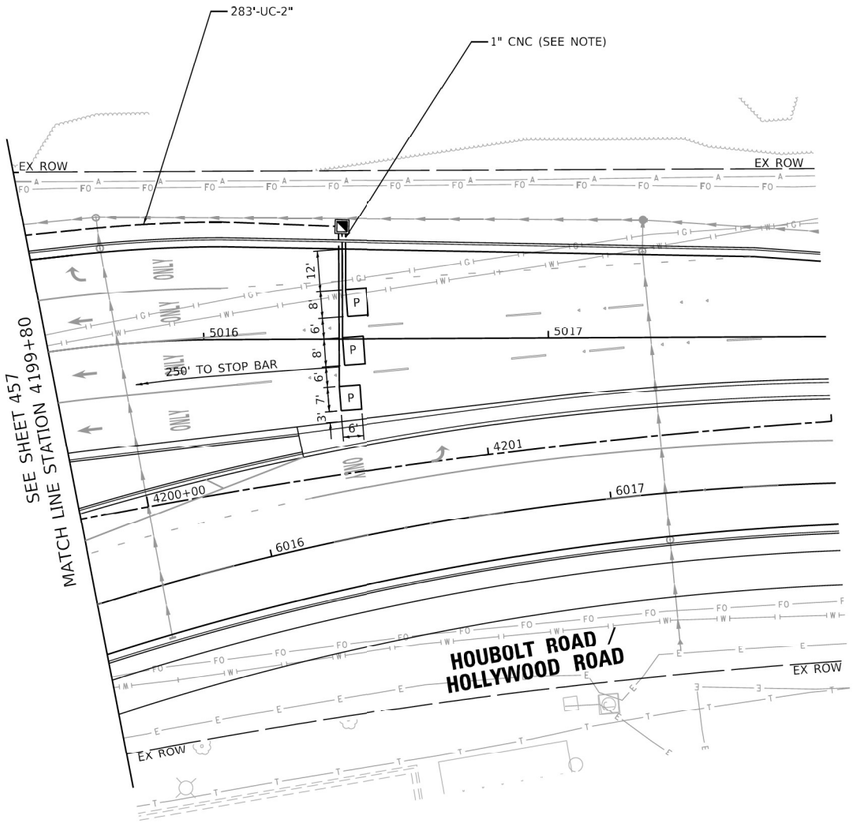
USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN (SHEET 1 OF 3)
HOUBOLT AT I-80 WESTBOUND RAMPS

SCALE: NONE | SHEET 6 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	420
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FOR REFERENCE ONLY

0 20 40 60
SCALE IN FEET

TS 21925
ECON 249

TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -
		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 3)
HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 WB RAMPS

SCALE: 1"=20' | SHEET 2 OF 14 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	458
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw-2-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-TS TSD162R27-SHT-TS-Plan_07.dgn

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

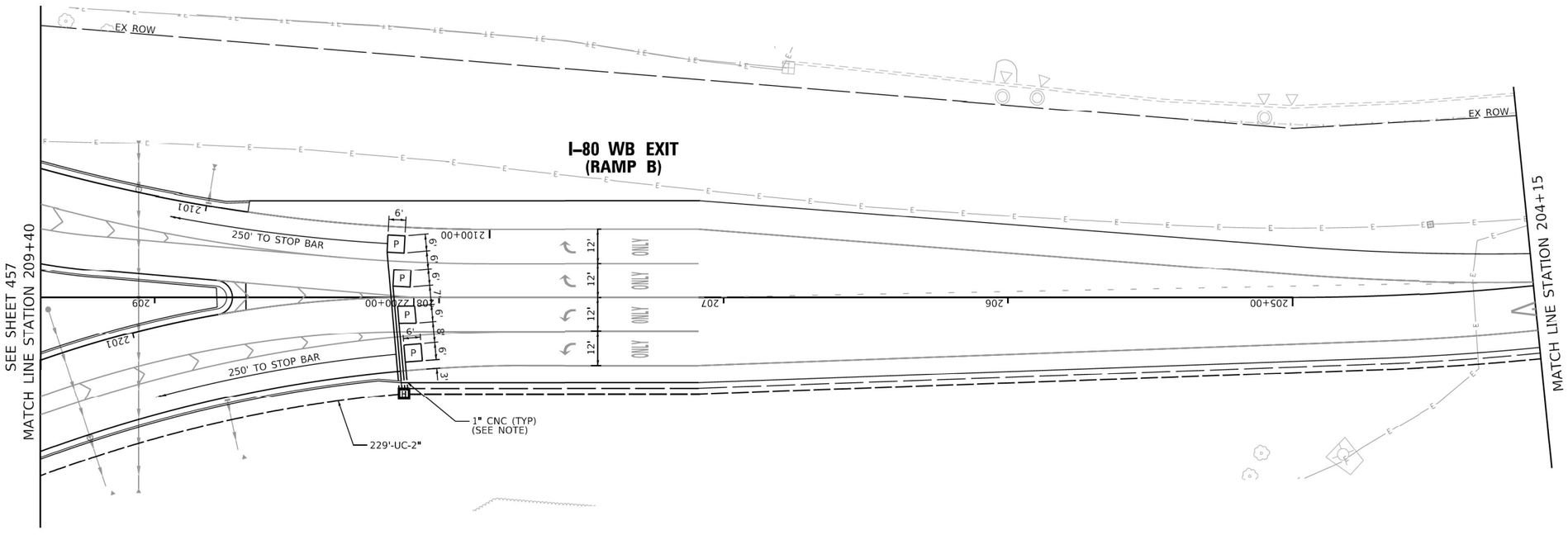
USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

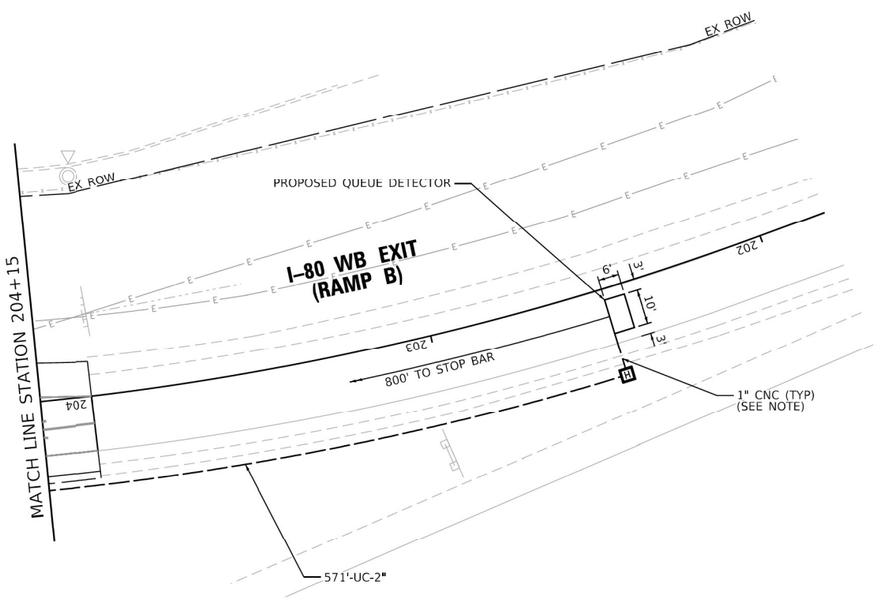
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

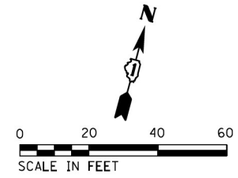
TRAFFIC SIGNAL PLAN (SHEET 2 OF 3)
HOUBOLT AT I-80 WESTBOUND RAMPS

SCALE: NONE | SHEET 7 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	421
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		







NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FOR REFERENCE ONLY

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw:\chp-pwin01.ae.transystems.com:transystems-pw1-Hosted\Documents\Projects_2018\CH401\401180022\02-TranSystems\Projects\CH401 - Chicago\P401160010\Road\303.00 - Sheets\21 Traffic Signal Plans\00010-sht-TS403

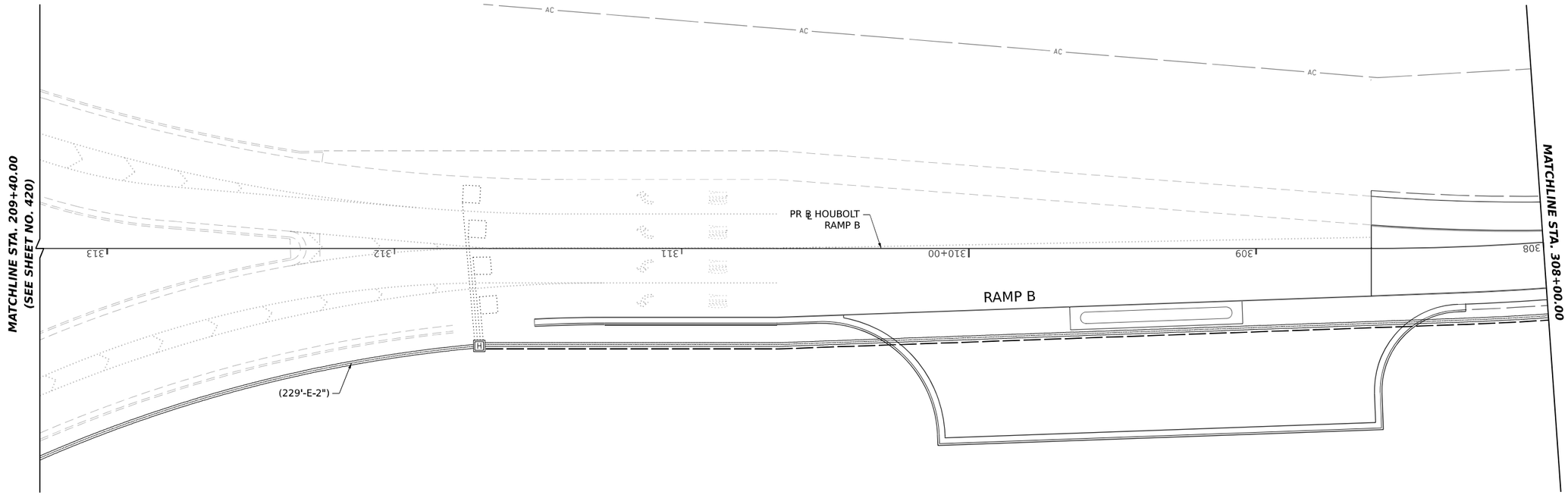
TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -	CITY OF JOLIET DEPARTMENT OF PUBLIC WORKS	TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 3 OF 3) HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 WB RAMPS
		DRAWN - NK	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED		SCALE: 1"=20' SHEET 3 OF 14 SHEETS STA. TO STA.
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -		

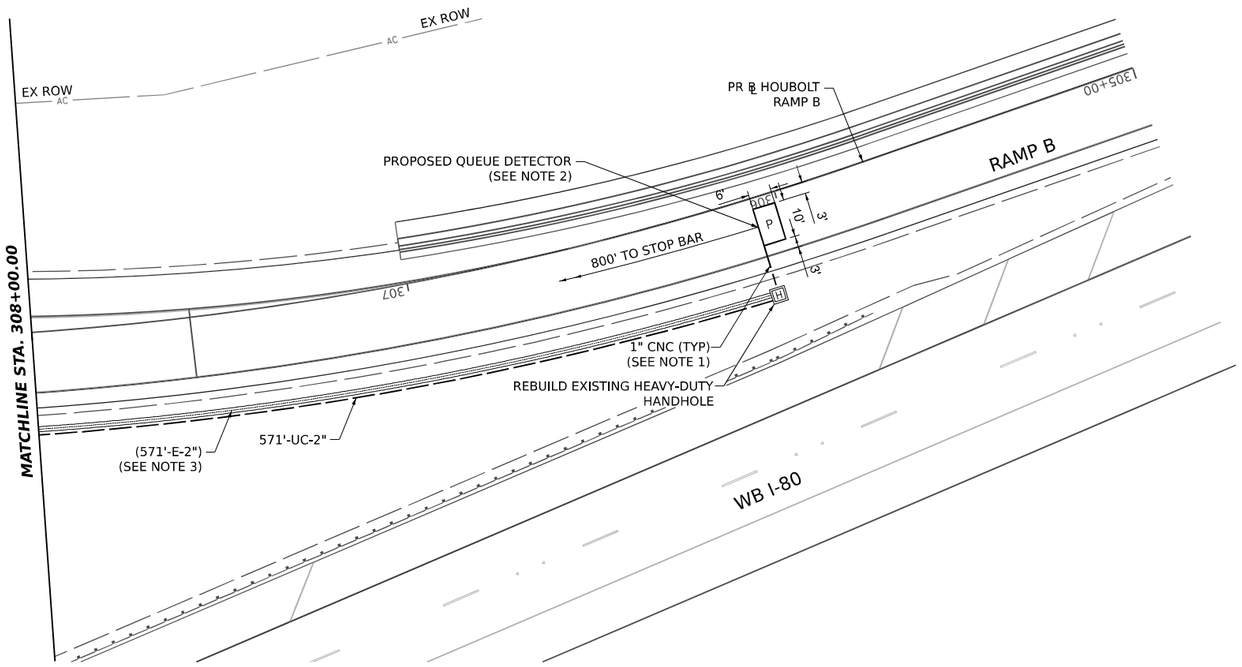
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	459
		CONTRACT NO. 2584-1021		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted\Documents\Projects_2018\CH401\401180022\02-TranSystems\CAD\62R27\Sheets\22-ITS TS\D162R27-SHT-TS-Plan_08.dgn

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = amkluver	DESIGNED - PTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN (SHEET 3 OF 4) HOUBOLT AT I–80 WESTBOUND RAMPS
		DRAWN - PTJ	REVISED -		
	PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -		SCALE: NONE SHEET 8 OF 12 SHEETS STA. TO STA.
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	422
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

2. ABANDON EXISTING DETECTION LOOPS. NEW PREFORMED LOOPS SHALL BE INSTALLED AT 306+04.

3. DISCONNECT RAMP B QUEUE DETECTOR IN THE ROADSIDE HANDHOLE. PULL BACK EXISTING DETECTOR LOOP LEAD-IN CABLE AND STORE IN THE HANDHOLE LOCATED NEAR STATION 311+70. AFTER PROPOSED CONDUIT IS INSTALLED BETWEEN EXISTING HANDHOLES, REINSTALL EXISTING DETECTOR LOOP LEAD-IN CABLE IN THE NEW CONDUIT AND SPLICE WITH PROPOSED LOOP WIRE. THIS WORK SHALL BE INCLUDED IN THE 'REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT' PAY ITEM.

N

0 20 40 60
SCALE IN FEET

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemspw-pw1-hosted/Documents/Projects_2018/CH14011800202/02-TranSystems/CAD/62R27/Sheets/23-IFS TS/D162R27-SHT-TS-Plan_09.dgn

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

USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

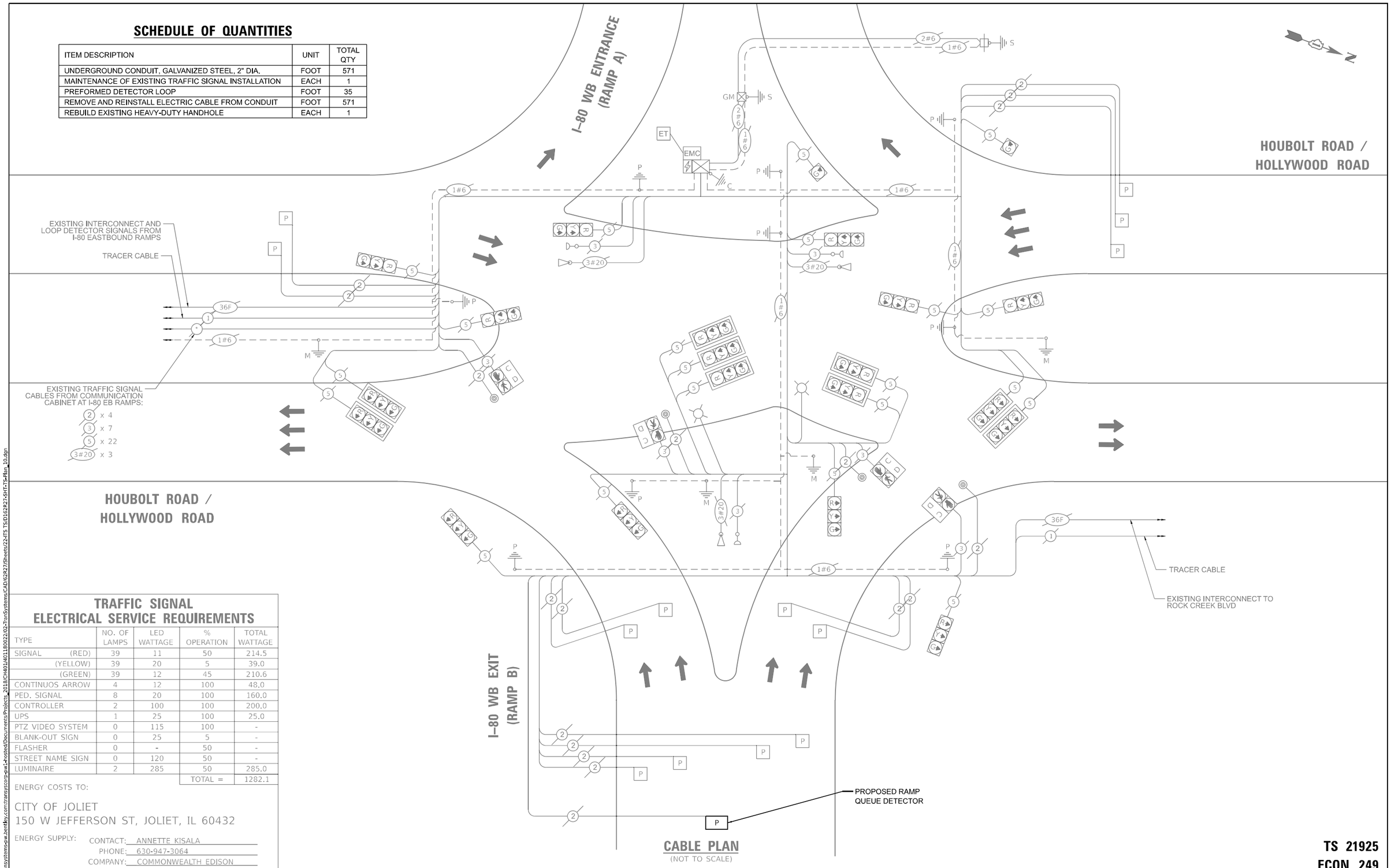
TRAFFIC SIGNAL PLAN (SHEET 4 OF 4)
HOUBOLT AT I–80 WESTBOUND RAMPS

SCALE: 1"=20' | SHEET 9 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	423
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	571
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PREFORMED DETECTOR LOOP	FOOT	35
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	571
REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	1



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	39	11	50	214.5
(YELLOW)	39	20	5	39.0
(GREEN)	39	12	45	210.6
CONTINUOS ARROW	4	12	100	48.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
PTZ VIDEO SYSTEM	0	115	100	-
BLANK-OUT SIGN	0	25	5	-
FLASHER	0	-	50	-
STREET NAME SIGN	0	120	50	-
LUMINAIRE	2	285	50	285.0
			TOTAL =	1282.1

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON ST, JOLIET, IL 60432

ENERGY SUPPLY:
CONTACT: ANNETTE KISALA
PHONE: 630-947-3064
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/22-ITS TS/D162R27-SHT-TS-Plan_10.dgn

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

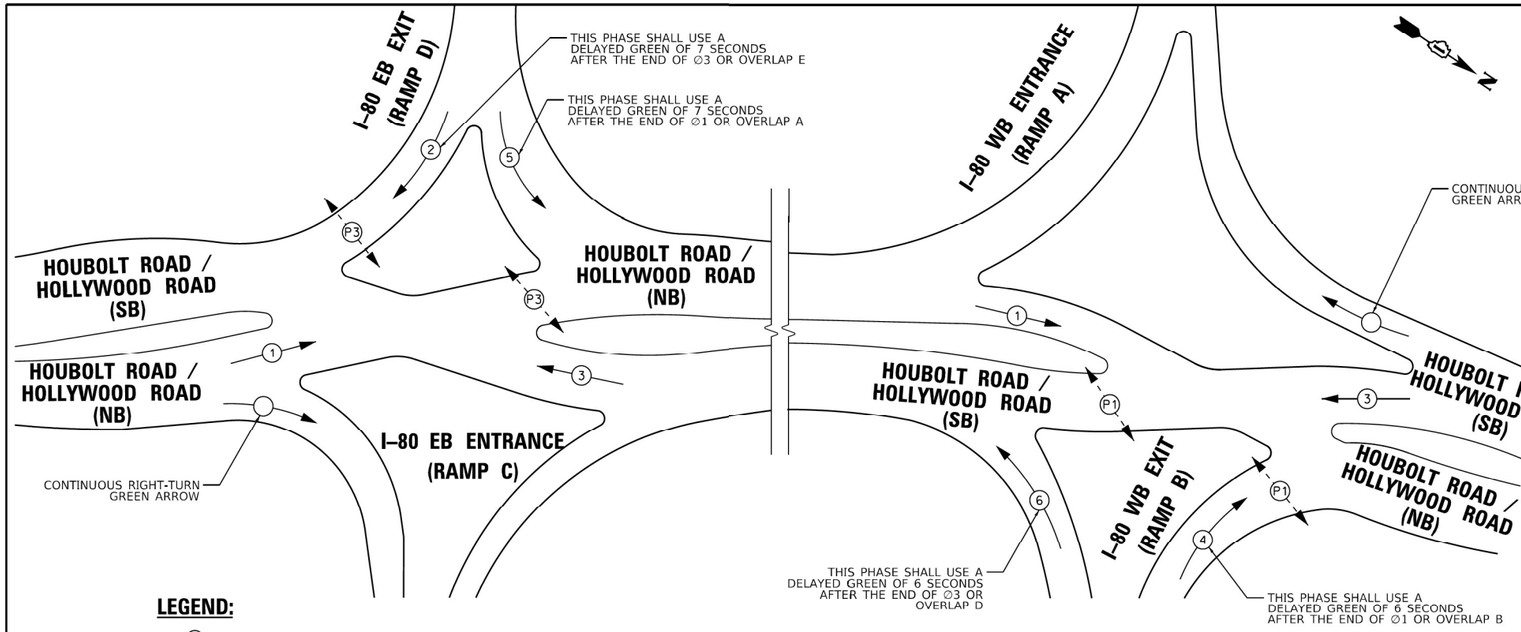
USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
HOUBOLT AT I-80 WESTBOUND RAMPS

SCALE: NONE | SHEET 10 OF 12 SHEETS | STA. | TO STA.

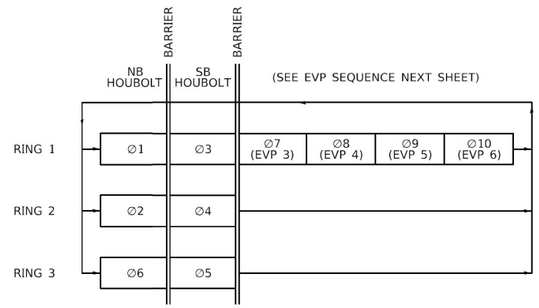
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	424
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



PHASE DESIGNATION DIAGRAM

LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

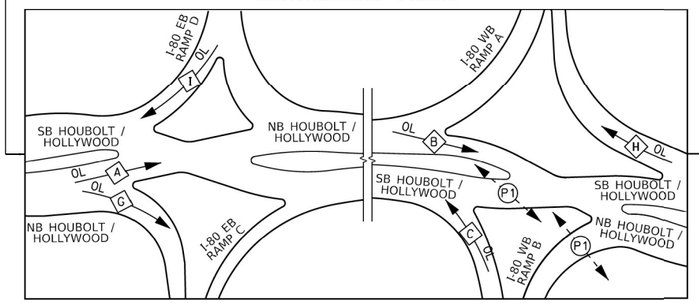


PHASE, RING AND BARRIER DESIGN

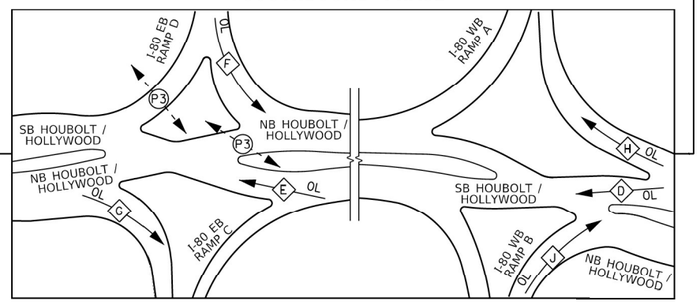
TRAFFIC MOVEMENT	∅ NUMBER	OVERLAP	NOTES
HOUBOLT NB AT RAMPS C & D	∅1+∅7	A	EVP 3 (∅7)
HOUBOLT NB AT RAMPS A & B	∅1+∅7+∅9	B	EVP 3 & 5 (∅7 & ∅9)
RAMP B WB LT	∅6+∅10	C	EVP 6 (∅10) DELAYED GREEN
HOUBOLT SB AT RAMPS A & B	∅3+∅8	D	EVP 4 (∅8)
HOUBOLT SB AT RAMPS C & D	∅3+∅8+∅10	E	EVP 4 & 6 (∅8 & ∅10)
RAMP D EB LT	∅5+∅9	F	EVP 5 (∅9) DELAYED GREEN
HOUBOLT NB RT AT RAMP C	ALL PHASES	G	CONTINUOS GREEN
HOUBOLT SB RT AT RAMP A	ALL PHASES	H	CONTINUOS GREEN
RAMP D EB RT	∅2+∅9	I	EVP 5 (∅9) DELAYED GREEN
RAMP B WB RT	∅4+∅10	J	EVP 6 (∅10) DELAYED GREEN
PEDESTRIAN CROSSING RAMP D	∅P3		
PEDESTRIAN CROSSING RAMP B	∅P1		
PEDESTRIAN CROSSING HOUBOLT SB	∅P1		
PEDESTRIAN CROSSING HOUBOLT NB	∅P3		

PHASING ASSIGNMENT

NORTHBOUND PHASE



SOUTHBOUND PHASE



NOTES:

1. ALL VEHICLE SIGNAL INDICATIONS/LOAD SWITCHES FOR DIVERGING DIAMOND INTERCHANGE CHALL BE OPERATED BY CONTROLLER OVERLAPS A THROUGH J.

FOR REFERENCE ONLY

SEQUENCE OF OPERATIONS /OVERLAP DESIGNATION

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw3-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-rITS TS/D162R27-SHT-TS-Plan_11.dgn

TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -
		DRAWN - NK	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS

TRAFFIC SIGNAL PHASE DESIGNATION DIAGRAM
HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 EB/WB RAMPS

SCALE: NA | SHEET 5 OF 14 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	461
		CONTRACT NO. 2584-1021		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw3-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-rITS TS/D162R27-SHT-TS-Plan_11.dgn

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

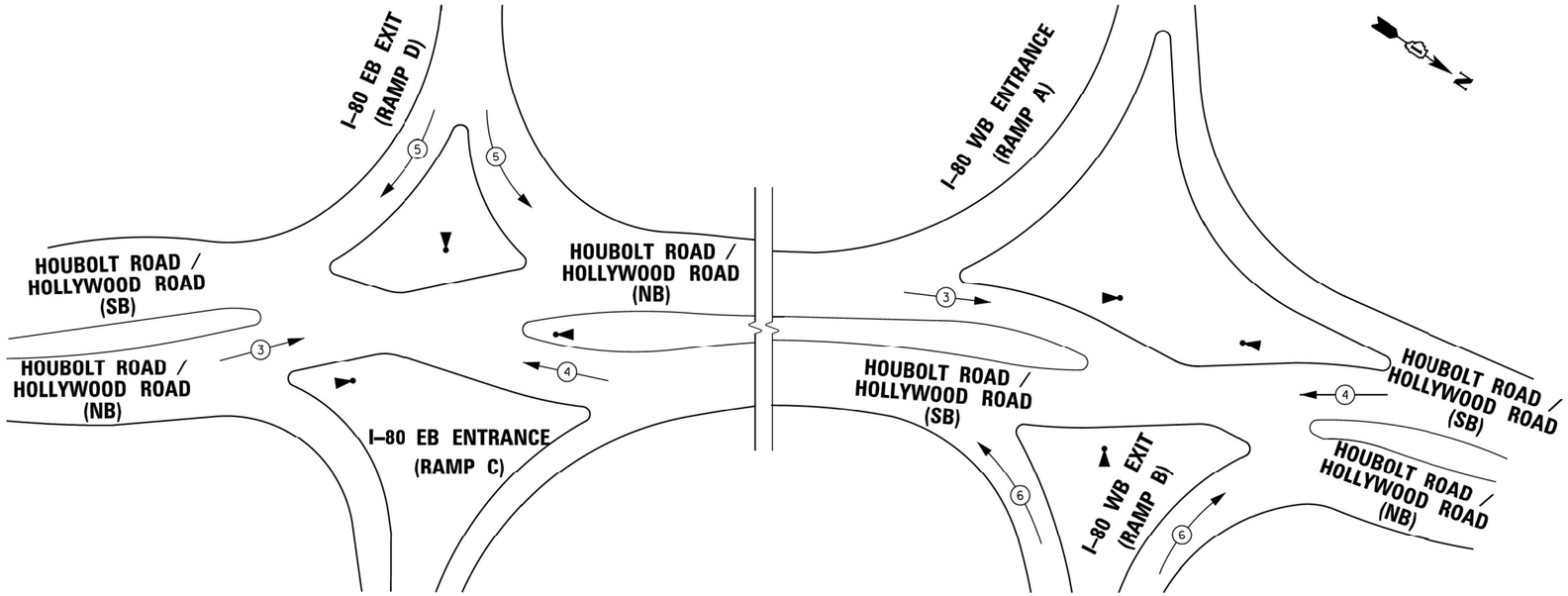
USER NAME = amkluver	DESIGNED - PTJ	REVISED -	
	DRAWN - PTJ	REVISED -	
PLOT SCALE = 40.000 ' / In.	CHECKED - MJL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PHASE DESIGNATION DIAGRAM
HOUBOLT AT I–80 EB/WB RAMPS

SCALE: NONE | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	425
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTORS	3 (∅7)		4 (∅8)		5 (∅9)		6 (∅10)	
INTERSECTION	RAMPS C/D	RAMPS A/B	RAMPS C/D	RAMPS A/B	RAMPS C/D	RAMPS A/B	RAMPS C/D	RAMPS A/B
MOVEMENT	↗	↘	←	↙	↓	→	←	↓

FOR REFERENCE ONLY

TS 21925
ECON 249

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems\CAD\62R27\Sheets\22-ITS TS\D162R27-SHT-TS-Plan_12.dgn

TranSystems	USER NAME = eadruckrey	DESIGNED - GR	REVISED -	CITY OF JOLIET DEPARTMENT OF PUBLIC WORKS	EMERGENCY VEHICLE PREEMPTION SEQUENCE HOUBOLT ROAD / HOLLYWOOD ROAD AND I-80 EB/WB RAMPS
		DRAWN - NK	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED GR	REVISED		
	PLOT DATE = 7/9/2021	DATE - 07-15-21	REVISED -		SCALE: NA | SHEET 6 OF 14 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	16-00503-00-PV	WILL	782	462
		CONTRACT NO. 2584-1021		
		ILLINOIS | FED. AID PROJECT		

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems\CAD\62R27\Sheets\22-ITS TS\D162R27-SHT-TS-Plan_12.dgn

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = amkluver	DESIGNED - PTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EMERGENCY VEHICLE PREEMPTION SEQUENCE HOUBOLT AT I-80 EB/WB RAMPS
		DRAWN - PTJ	REVISED -		
	PLOT SCALE = 40.000 ' / In.	CHECKED - MJL	REVISED -		
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		SCALE: NONE | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	426
		CONTRACT NO. 62R27		
		ILLINOIS | FED. AID PROJECT		

ELECTRICAL SYMBOLS FOR PROPOSED WORK

LIGHTING UNIT: TYPE AS INDICATED

47'-6" M.H., 15 FT. MAST ARM
LED TYPE I LUMINAIRE
GROUND MOUNTED WITH METAL
OR CONCRETE FOUNDATION & T-BASE

M — 47'-6" M.H., 6 FT. MAST ARM
LED TYPE I LUMINAIRE
MOUNTED ON PARAPET WALL

47'-6" M.H., 2-6 FT. MAST ARM
2-LED TYPE I LUMINAIRE
MOUNTED ON MEDIAN WALL

COMBINATION LIGHTING UNIT,
45' M.H., 15 FT. MAST ARM,
LED TYPE I LUMINAIRE

47'-6" M.H., 15 FT. MAST ARM
LED TYPE H LUMINAIRE
GROUND MOUNTED WITH METAL
OR CONCRETE FOUNDATION & T-BASE

M — 47'-6" M.H., 6 FT. MAST ARM
LED TYPE H LUMINAIRE
MOUNTED ON PARAPET WALL

47'-6" M.H., 2-6 FT. MAST ARM
2-LED TYPE H LUMINAIRE
MOUNTED ON MEDIAN WALL

COMBINATION LIGHTING UNIT,
45' M.H., 15 FT. MAST ARM,
LED TYPE H LUMINAIRE

(T) — TEMPORARY LIGHTING UNIT, 60 FT. WOOD POLE,
15 FT. MAST ARM, 47'-6" M.H., TEMPORARY LED
LUMINAIRE OUTPUT I, UNLESS NOTED OTHERWISE ON PLANS

UNDERPASS LED LUMINAIRE: SUSPENDED CEILING MOUNT,
TYPE AS SHOWN ON PLANS

[J] — JUNCTION BOX: TYPE AND SIZE AS INDICATED
ON PLANS

[P] — PULL BOX: TYPE AND SIZE AS INDICATED
ON PLANS

SIGN STRUCTURE-CANTILEVER TYPE

SIGN STRUCTURE-TRUSS TYPE

SIGN STRUCTURE-BRIDGE MOUNT TYPE

CONTROLLER CABINET: LIGHTING
DUPLEX TYPE WITH SCADA (DOOR SIDE AS
INDICATED) - WITH FIBER OPTIC PROVISION

CONTROLLER: LIGHTING, SINGLE

T80 — TEMPORARY WOOD POLE, LENGTH AS
INDICATED ON THE PLANS

ELECTRIC UTILITY POLE

POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)

PAD MOUNTED ELECTRIC UTILITY TRANSFORMER

GROUND ROD

A/C — AERIAL CABLE

FLEXIBLE CONDUIT

L — RACEWAY EMBEDDED IN STRUCTURE, PVC SCH 40

UNDERGROUND CONDUIT: TYPE AND SIZE
AS INDICATED ON PLANS

EXPOSED CONDUIT, ATTACHED TO STRUCTURE

UNIT DUCT
UNDERGROUND WITHOUT ENCASEMENT

RIGID PVC SCH 80 CONDUIT
SLEEVE, INSTALLED BELOW PAVEMENT

GENERAL ELECTRICAL CALLOUTS

CONTROLLER DESIGNATION
CIRCUIT DESIGNATION
LIGHTING UNIT NUMBER
WA3
STA. 1700+00, 18' (FROM EOP TO CENTER OF POLE)

CONTROL CABINET
CIRCUITRY
POLE NUMBER
X A 12
X B 12

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

4" PVC SCH 80 CONDUIT SLEEVE
BELOW PAVEMENT

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

[J] — JB, SS, 18"x18"x8" ATS

TYPICAL EXISTING TO BE REMOVED SYMBOLS

(R) OR (R)(R) — EXISTING IDOT LIGHT POLE AND MAST ARM TO BE REMOVED
(LUMINAIRES TO BE SALVAGED TO IDOT)

R OR R — EXISTING OTHER LIGHT POLE AND MAST ARM TO BE REMOVED

OR — EXISTING UNDERPASS LUMINAIRE TO BE REMOVED

[J]R — EXISTING JUNCTION BOX TO BE REMOVED

R — EXISTING SIGN STRUCTURE-CANTILEVER TYPE TO BE REMOVED

R — EXISTING LIGHTING CONTROLLER, DUPLEX, TO BE REMOVED

R — EXISTING POLE MOUNTED UTILITY SERVICE CONNECTION TO BE REMOVED

R — EXISTING HIGH MAST LIGHT TOWER UNIT
TO BE REMOVED, 120 FT. 400W HPS LUMINAIRES,
ARROWS INDICATE QUANTITY AND ORIENTATION
OF LUMINAIRES (LUMINAIRES TO BE SALVAGED TO IDOT)

R — EXISTING WOOD POLE TO BE REMOVED

ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

(E) — EXISTING HIGH MAST LIGHT TOWER UNIT TO REMAIN,
ARROWS INDICATE QUANTITY AND ORIENTATION OF
LUMINAIRES

(E)(E) — EXISTING IDOT LIGHTING UNIT, TWIN LUMINAIRE
TO REMAIN

(E) — EXISTING IDOT LIGHTING UNIT TO REMAIN

(J) — EXISTING CITY OF JOLIET LIGHTING UNIT TO REMAIN

OE — EXISTING UNDERPASS LUMINAIRE TO REMAIN

HE — EXISTING ELECTRIC HANDHOLE

HHE — EXISTING DOUBLE HANDHOLE

JE — EXISTING JUNCTION BOX

(C) — EXISTING CITY OF JOLIET ELECTRIC HANDHOLE/MANHOLE

E — EXISTING LIGHTED SIGN STRUCTURE-
CANTILEVER TYPE

E — EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE

E — EXISTING LIGHTED SIGN STRUCTURE-
BRIDGE MOUNT TYPE

E — EXISTING LIGHTING CONTROLLER, DUPLEX

E — EXISTING ELECTRIC UTILITY POLE

E — EXISTING WOOD POLE

E — EXISTING UTILITY SERVICE CONNECTION,
POLE MOUNTED

E — EXISTING UTILITY SERVICE CONNECTION,
PAD MOUNTED

E — EXISTING CONCEALED CONDUIT IN STRUCTURE

E — EXISTING EXPOSED CONDUIT, ATTACHED TO STRUCTURE

E — EXISTING UNIT DUCT
WITHOUT ENCASEMENT

EXISTING CONCEALED CONDUIT UNDERGROUND,
TRENCHED OR PUSHED

EXISTING ELECTRIC CABLE IN CONDUIT SLEEVE

A/C-E — EXISTING AERIAL CABLE TO REMAIN

EXISTING ELECTRICAL EQUIPMENT
TO BE ABANDONED

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

USER NAME = myersc	DESIGNED - TJL	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.03333509 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING SYMBOLS

SCALE: N.T.S. | SHEET 1 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	427
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Untitled-3 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transsys/connect-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-Sht-LIGHT_01.dgn

I-80 MAINLINE CONTRACT 62R27 LIGHTING BILL OF MATERIALS AND QUANTITIES

DESCRIPTION	UNIT	IDOT TOTAL QUANTITY LIGHTING
IDOT ELECTRIAL PAY ITEMS		
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	330
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	185
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	230
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	10585
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	705
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	7505
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	635
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3300
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	17187
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	21876
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	110
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	2
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	26
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. MAST ARMS	EACH	42
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	182
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	26
REMOVAL OF LIGHTING TOWER, SALVAGE	EACH	1
REMOVAL OF LIGHTING TOWER, NO SALVAGE	EACH	22
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	82
DRILL EXISTING JUNCTION BOX	EACH	2
PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRE	L SUM	1
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	43
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	301
REMOVAL OF TOWER FOUNDATION	EACH	23
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	110
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	24
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 20" X 13" X 12"	EACH	1

ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RL	RELOCATED
RR	EXISTING UNIT TO BE REMOVED AND RELOCATED (REINSTALLED)
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UC	UNDERGROUND CONDUIT
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL NOTES:

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. JUNCTION BOXES SHALL BE ATTACHED TO STRUCTURE UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS OR STANDARDS.
3. THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
4. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER.
5. 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.
6. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION.
7. ALL REMOVED EQUIPMENT AND MATERIALS THAT WILL NOT BE REUSED SHALL BE RETURNED TO THE AGENCY THAT OWNS THE EQUIPMENT. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO SAFELY TRANSPORT AND DELIVER REMOVED EQUIPMENT TO THE AGENCY'S PUBLIC WORKS STORAGE FACILITY/YARD DESIGNATED BY EACH AGENCY. COST OF THIS WORK, INCLUDING PROPERLY PACKAGING AND HANDLING OF EQUIPMENT, SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ITEMS BEING REMOVED.
8. LIGHTING AND ELECTRICAL SYMBOLS ARE OVERSIZED ON THE PLANS FOR CLARITY. CONTRACTOR SHALL USE STATIONS AND SETBACKS TO ACCURATELY LOCATE EQUIPMENT.

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

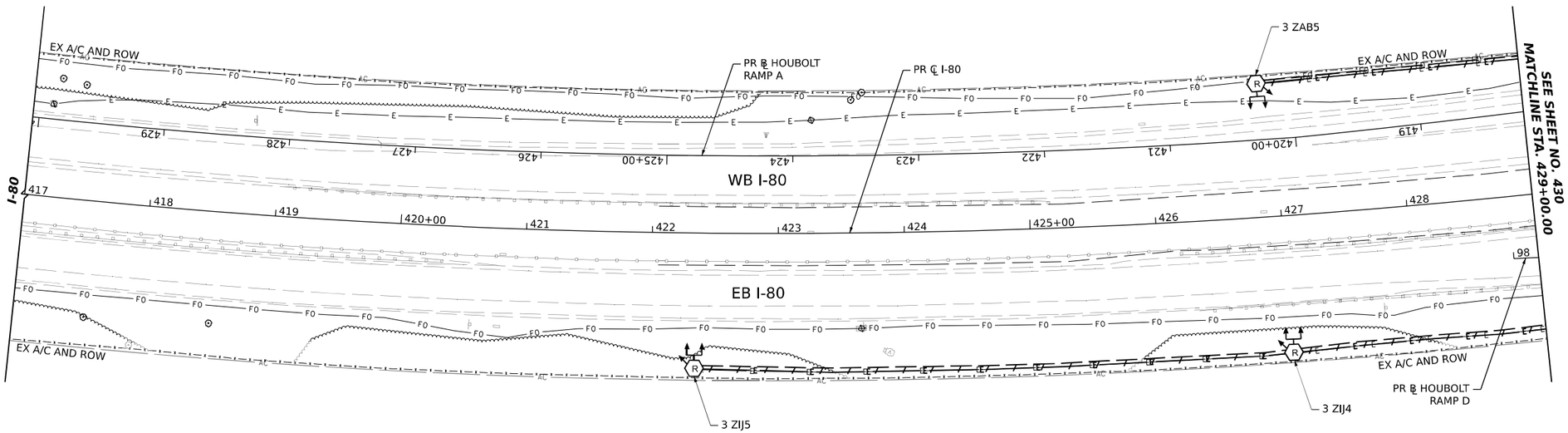
LIGHTING NOTES, ABBREVIATIONS AND QUANTITIES

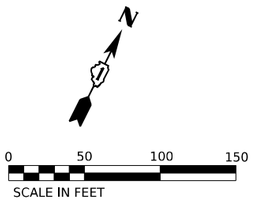
SCALE: N.T.S. | SHEET 2 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	428
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

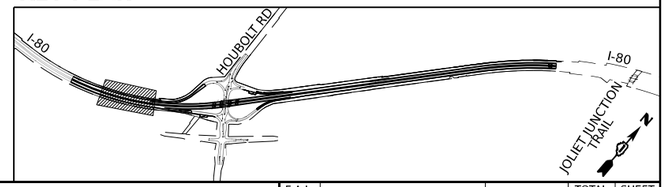
NOTES:

1. ALL EXISTING LIGHT TOWERS SHALL REMAIN IN PLACE AND FULLY OPERATIONAL DURING CONSTRUCTION. EXISTING LIGHT TOWERS WILL SERVE AS TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
2. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS PERMANENT LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
3. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
4. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND TOWERS AT THE ELECTRICAL DISTRIBUTION PANELBOARD BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
5. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
6. DISPOSE OF ALL REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
7. MAINTAIN EXISTING LIGHT TOWERS IN FULL OPERATION. VERIFY ROUTING OF EXISTING TOWER CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE TOWERS OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
8. AT THE END OF CONSTRUCTION OPERATIONS, COMPLETELY REMOVE ENTIRE LIGHTING UNITS FROM FOUNDATION. SALVAGE LIGHTING UNITS AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE TOWER FOUNDATION PER IDOT STANDARDS AND SPECIFICATIONS.





KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH-401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-IEHT_03.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

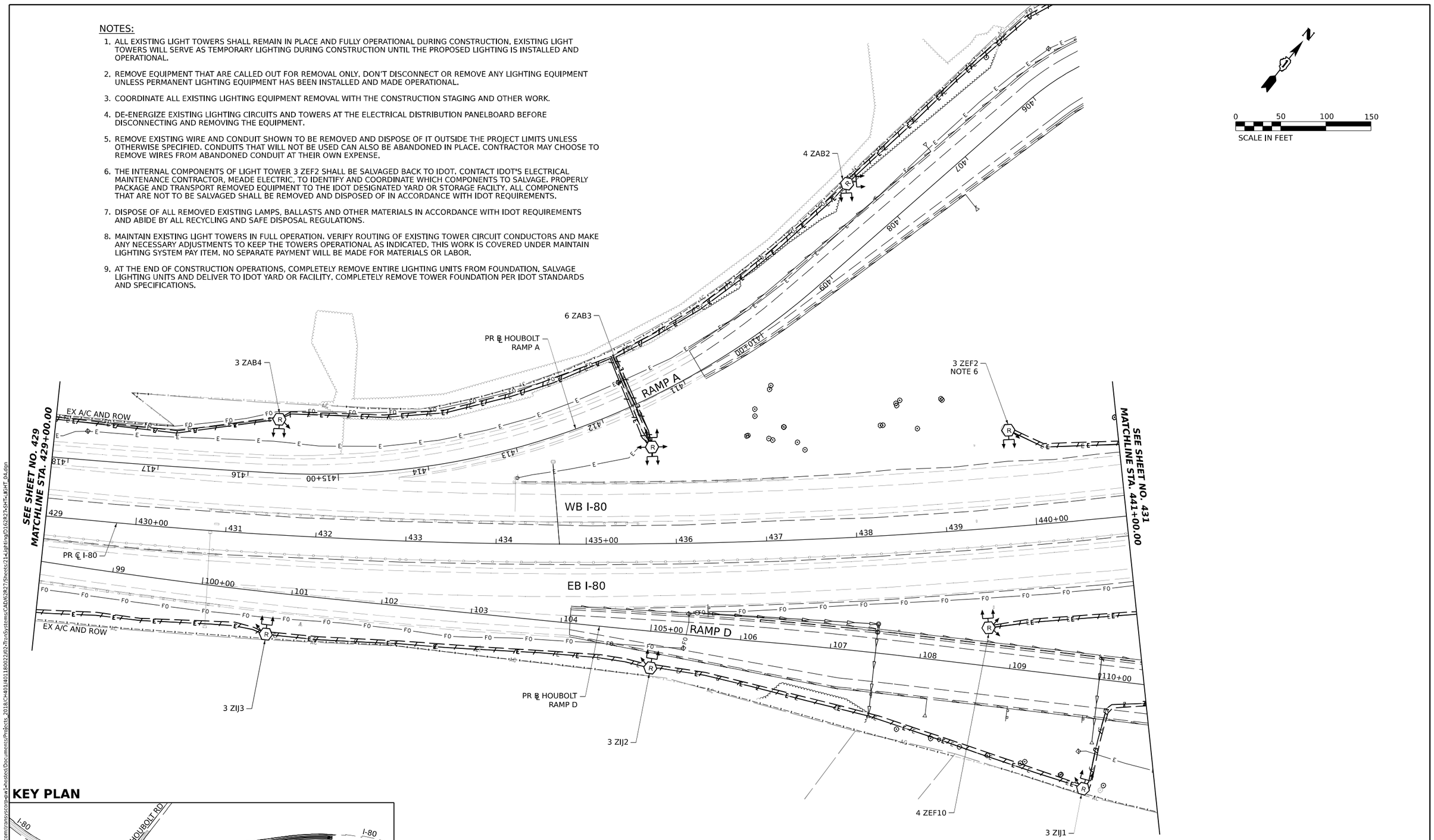
EXISTING LIGHTING REMOVAL PLAN

SCALE: 1"=50' | SHEET 3 OF 34 SHEETS | STA. 417+00.00 | TO STA. 429+00.00

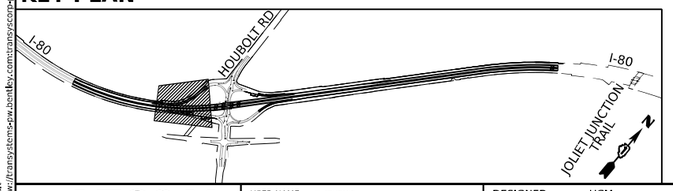
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	429
		CONTRACT NO.62R27		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. ALL EXISTING LIGHT TOWERS SHALL REMAIN IN PLACE AND FULLY OPERATIONAL DURING CONSTRUCTION. EXISTING LIGHT TOWERS WILL SERVE AS TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
2. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS PERMANENT LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
3. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
4. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND TOWERS AT THE ELECTRICAL DISTRIBUTION PANELBOARD BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
5. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
6. THE INTERNAL COMPONENTS OF LIGHT TOWER 3 ZEF2 SHALL BE SALVAGED BACK TO IDOT. CONTACT IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR, MEADE ELECTRIC, TO IDENTIFY AND COORDINATE WHICH COMPONENTS TO SALVAGE. PROPERLY PACKAGE AND TRANSPORT REMOVED EQUIPMENT TO THE IDOT DESIGNATED YARD OR STORAGE FACILTY. ALL COMPONENTS THAT ARE NOT TO BE SALVAGED SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH IDOT REQUIREMENTS.
7. DISPOSE OF ALL REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
8. MAINTAIN EXISTING LIGHT TOWERS IN FULL OPERATION. VERIFY ROUTING OF EXISTING TOWER CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE TOWERS OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
9. AT THE END OF CONSTRUCTION OPERATIONS, COMPLETELY REMOVE ENTIRE LIGHTING UNITS FROM FOUNDATION. SALVAGE LIGHTING UNITS AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE TOWER FOUNDATION PER IDOT STANDARDS AND SPECIFICATIONS.



KEY PLAN



AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5376
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLAN

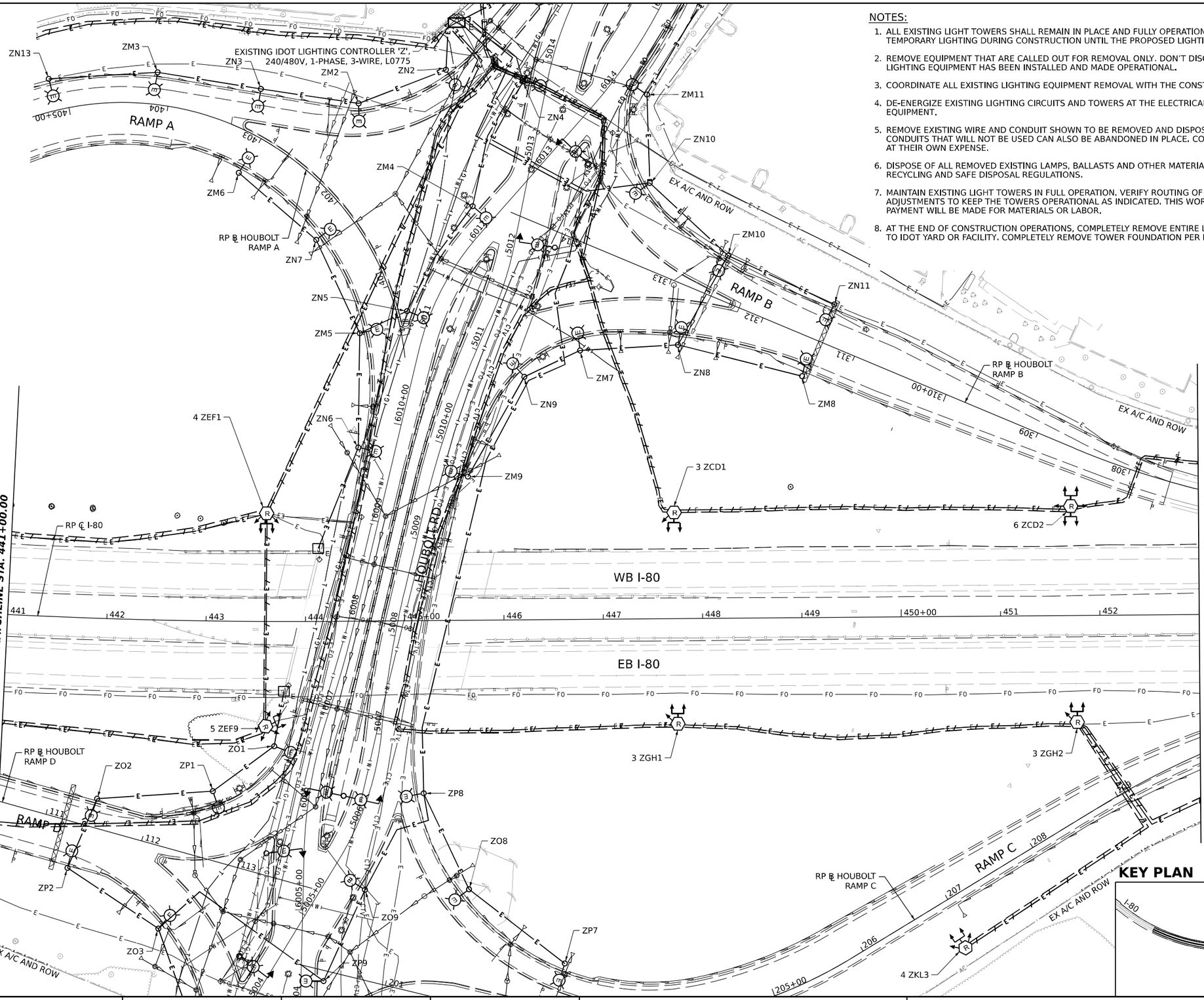
SCALE: 1"=50' | SHEET 4 OF 34 SHEETS | STA. 429+00.00 | TO STA. 441+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	430
		CONTRACT NO.62R27		
	ILLINOIS	FED. AID PROJECT		

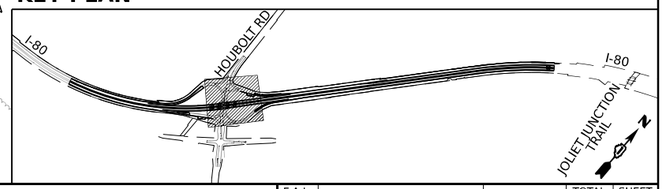
MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw2-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_04.dgn

NOTES:

1. ALL EXISTING LIGHT TOWERS SHALL REMAIN IN PLACE AND FULLY OPERATIONAL DURING CONSTRUCTION. EXISTING LIGHT TOWERS WILL SERVE AS TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
2. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS PERMANENT LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
3. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
4. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND TOWERS AT THE ELECTRICAL DISTRIBUTION PANELBOARD BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
5. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
6. DISPOSE OF ALL REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
7. MAINTAIN EXISTING LIGHT TOWERS IN FULL OPERATION. VERIFY ROUTING OF EXISTING TOWER CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE TOWERS OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
8. AT THE END OF CONSTRUCTION OPERATIONS, COMPLETELY REMOVE ENTIRE LIGHTING UNITS FROM FOUNDATION. SALVAGE LIGHTING UNITS AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE TOWER FOUNDATION PER IDOT STANDARDS AND SPECIFICATIONS.



KEY PLAN



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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLAN

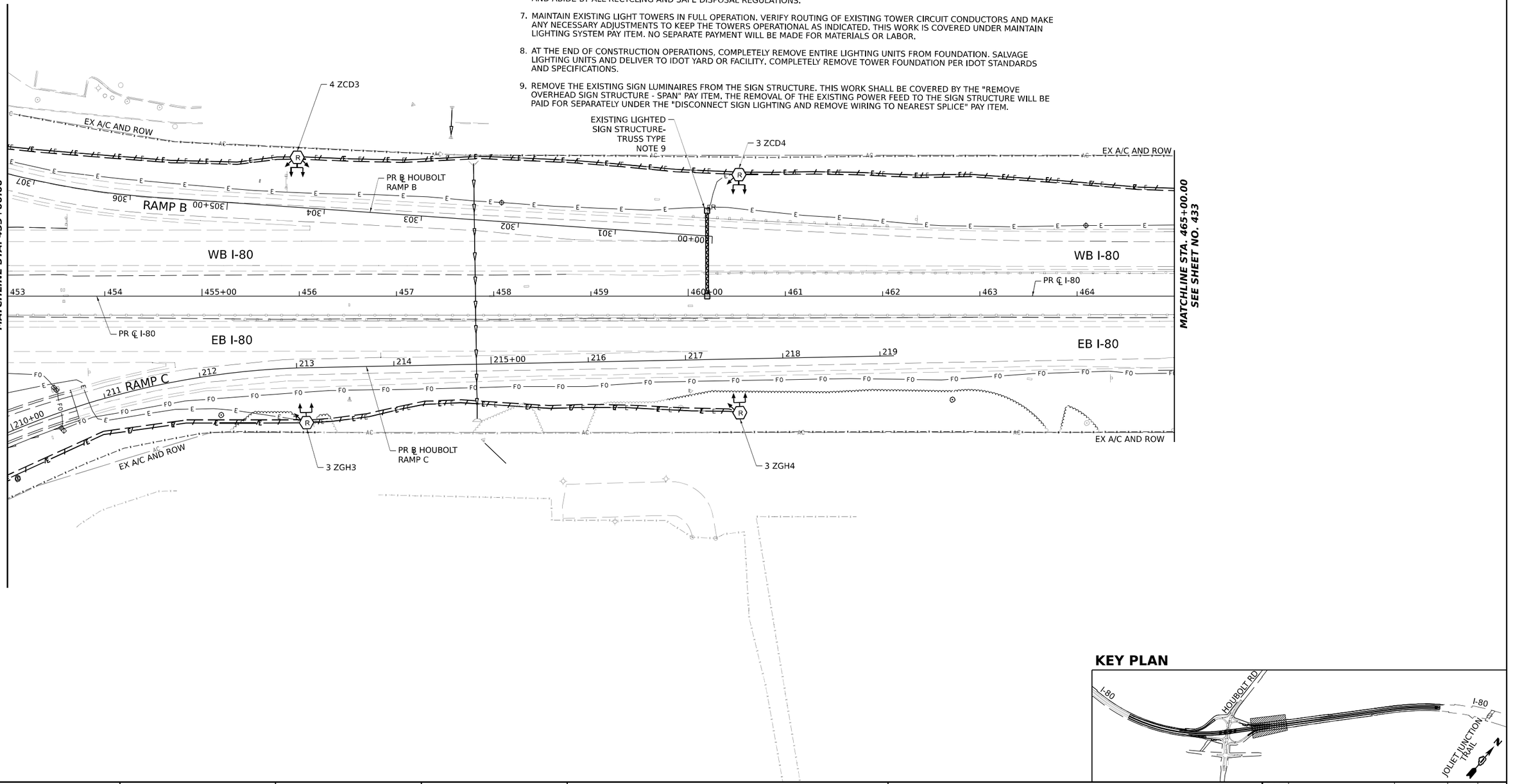
SCALE: 1"=50' | SHEET 5 OF 34 SHEETS | STA. 441+00.00 | TO STA. 453+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	431
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/D-1401401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LGHT-05.dgn

NOTES:

1. ALL EXISTING LIGHT TOWERS SHALL REMAIN IN PLACE AND FULLY OPERATIONAL DURING CONSTRUCTION. EXISTING LIGHT TOWERS WILL SERVE AS TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
2. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS PERMANENT LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
3. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
4. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND TOWERS AT THE ELECTRICAL DISTRIBUTION PANELBOARD BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
5. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
6. DISPOSE OF ALL REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
7. MAINTAIN EXISTING LIGHT TOWERS IN FULL OPERATION. VERIFY ROUTING OF EXISTING TOWER CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE TOWERS OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
8. AT THE END OF CONSTRUCTION OPERATIONS, COMPLETELY REMOVE ENTIRE LIGHTING UNITS FROM FOUNDATION. SALVAGE LIGHTING UNITS AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE TOWER FOUNDATION PER IDOT STANDARDS AND SPECIFICATIONS.
9. REMOVE THE EXISTING SIGN LUMINAIRES FROM THE SIGN STRUCTURE. THIS WORK SHALL BE COVERED BY THE "REMOVE OVERHEAD SIGN STRUCTURE - SPAN" PAY ITEM. THE REMOVAL OF THE EXISTING POWER FEED TO THE SIGN STRUCTURE WILL BE PAID FOR SEPARATELY UNDER THE "DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE" PAY ITEM.



0 50 100 150
SCALE IN FEET

KEY PLAN

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LGHT-06.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

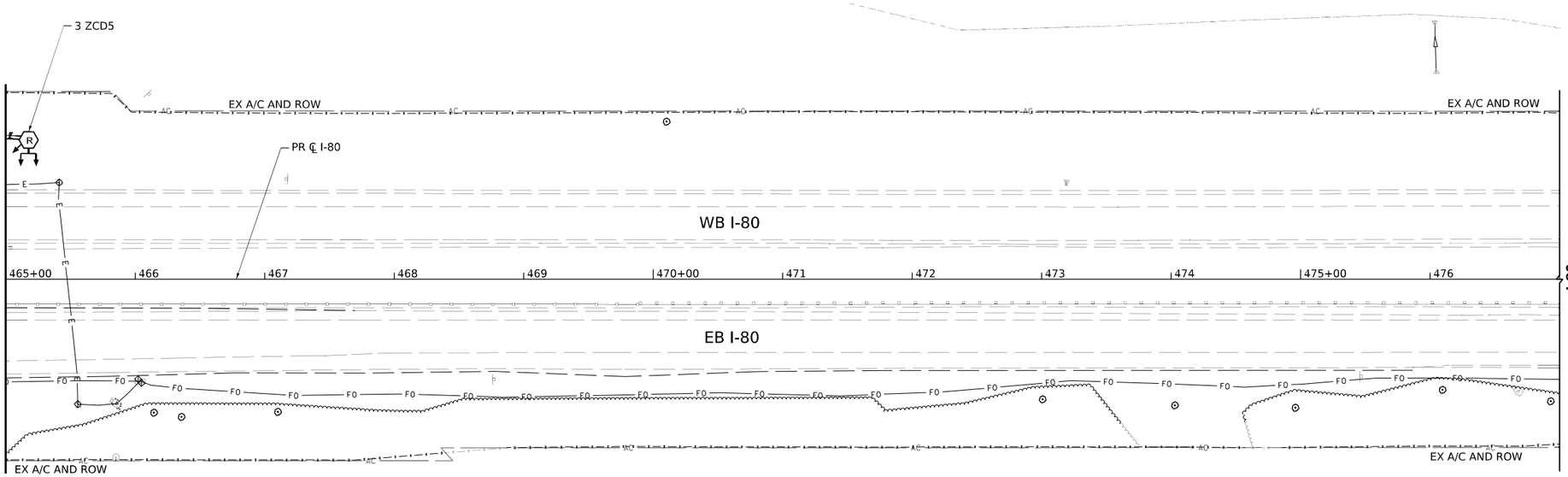
EXISTING LIGHTING REMOVAL PLAN

SCALE: 1"=50' | SHEET 6 OF 34 SHEETS | STA. 453+00.00 | TO STA. 465+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	432
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. ALL EXISTING LIGHT TOWERS SHALL REMAIN IN PLACE AND FULLY OPERATIONAL DURING CONSTRUCTION. EXISTING LIGHT TOWERS WILL SERVE AS TEMPORARY LIGHTING DURING CONSTRUCTION UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
2. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS PERMANENT LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
3. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
4. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND TOWERS AT THE ELECTRICAL DISTRIBUTION PANELBOARD BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
5. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
6. DISPOSE OF ALL REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
7. MAINTAIN EXISTING LIGHT TOWERS IN FULL OPERATION. VERIFY ROUTING OF EXISTING TOWER CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE TOWERS OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
8. AT THE END OF CONSTRUCTION OPERATIONS, COMPLETELY REMOVE ENTIRE LIGHTING UNITS FROM FOUNDATION. SALVAGE LIGHTING UNITS AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE TOWER FOUNDATION PER IDOT STANDARDS AND SPECIFICATIONS.

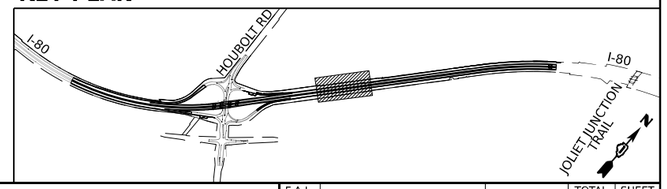


SEE SHEET NO. 432
MATCHLINE STA. 465+00.00

N

0 50 100 150
SCALE IN FEET

KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LKHT_07.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLAN

SCALE: 1"=50' | SHEET 7 OF 34 SHEETS | STA. 465+00.00 | TO STA. 477+00.00

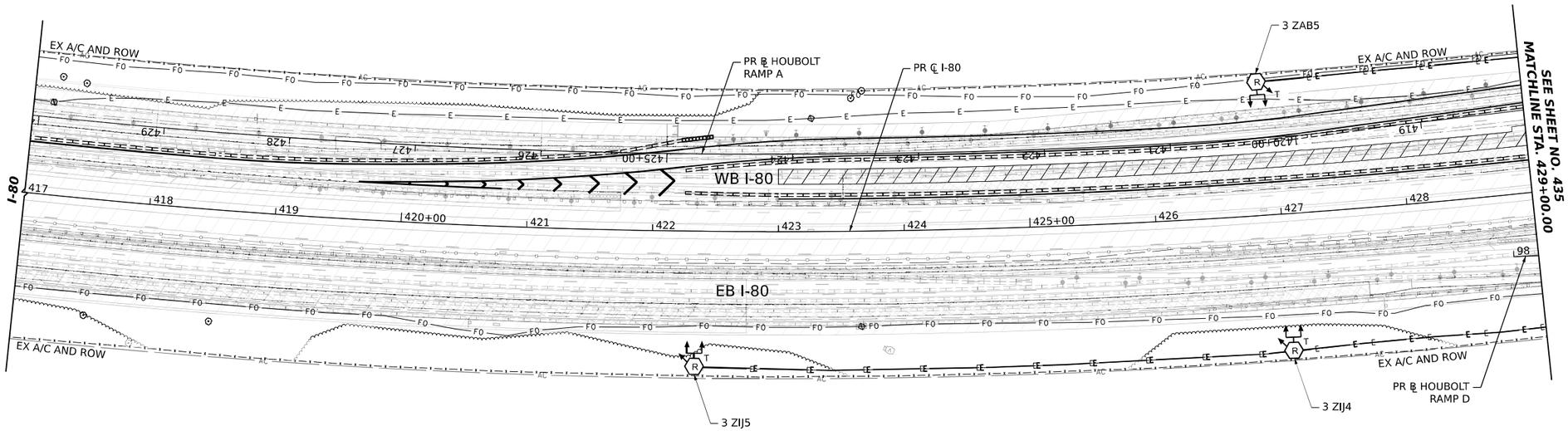
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	433
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

NOTES:

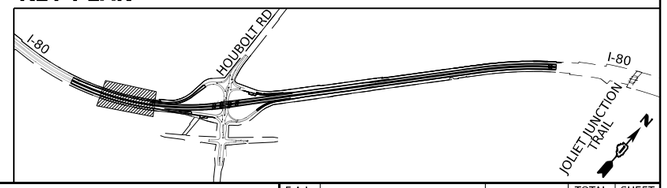
1. THE EXISTING LIGHT TOWERS MUST REMAIN IN PLACE AND FULLY OPERATIONAL TO PROVIDE THE SAME LIGHT LEVELS FOR THE MAINLINE ROADWAY AND INTERCHANGE RAMPS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT TOWERS OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER MAINTENANCE OF LIGHTING SYSTEM.
3. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
4. THE PERMANENT LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWERS, UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
5. REMOVE ALL TEMPORARY WIRING AND EQUIPMENT AT THE END OF CONSTRUCTION.
6. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER.

N

0 50 100 150
SCALE IN FEET



KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/C-4014011800202/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D102R27-SHT-LGHT_08.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

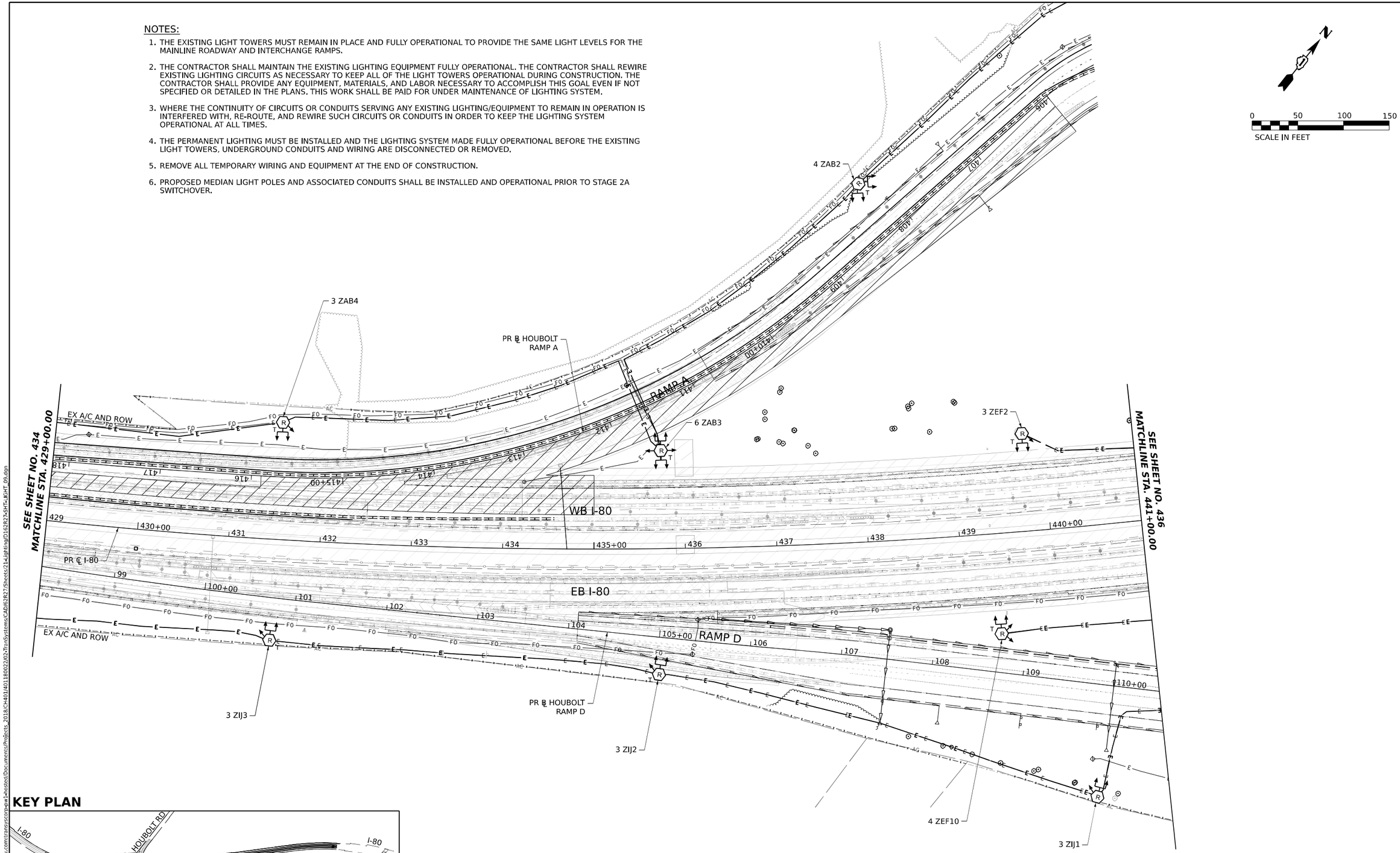
HOUBOLT INTERCHANGE TEMPORARY LIGHTING PLAN

SCALE: 1"=50' | SHEET 8 OF 34 SHEETS | STA. 417+00.00 TO STA. 429+00.00

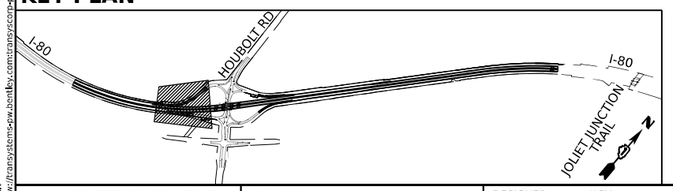
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	434
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE EXISTING LIGHT TOWERS MUST REMAIN IN PLACE AND FULLY OPERATIONAL TO PROVIDE THE SAME LIGHT LEVELS FOR THE MAINLINE ROADWAY AND INTERCHANGE RAMPS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT TOWERS OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER MAINTENANCE OF LIGHTING SYSTEM.
3. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
4. THE PERMANENT LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWERS, UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
5. REMOVE ALL TEMPORARY WIRING AND EQUIPMENT AT THE END OF CONSTRUCTION.
6. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER.



KEY PLAN



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

USER NAME	= myersc	DESIGNED	- UCM	REVISED	-
		DRAWN	- CAM	REVISED	-
PLOT SCALE	= 100.000 ' / in.	CHECKED	- MAE	REVISED	-
PLOT DATE	= 6/21/2023	DATE	- 6/26/23	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOUBOLT INTERCHANGE TEMPORARY LIGHTING PLAN

SCALE: 1"=50' | SHEET 9 OF 34 SHEETS | STA. 429+00.00 | TO STA. 441+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	435
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TransSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LGHT-09.dgn

NOTES:

1. THE EXISTING LIGHT TOWERS MUST REMAIN IN PLACE AND FULLY OPERATIONAL TO PROVIDE THE SAME LIGHT LEVELS FOR THE MAINLINE ROADWAY AND INTERCHANGE RAMPS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT TOWERS OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER MAINTENANCE OF LIGHTING SYSTEM.
3. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
4. THE PERMANENT LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWERS, UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
5. REMOVE ALL TEMPORARY WIRING AND EQUIPMENT AT THE END OF CONSTRUCTION.
6. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER.

EXISTING IDOT LIGHTING CONTROLLER 'Z', 240/480V, 1-PHASE, 3-WIRE, L0775

ZN13 ZM13 ZN3 ZM3 ZN2 ZM2 ZN4 ZM4 ZN10 ZM11 ZN11 ZM10 ZN5 ZM5 ZN6 ZM6 ZN7 ZM7 ZN8 ZM8 ZN9 ZM9

RAMP A RAMP B RAMP C RAMP D

RP ℄ HOUBOLT RAMP A
RP ℄ HOUBOLT RAMP B
RP ℄ HOUBOLT RAMP C
RP ℄ HOUBOLT RAMP D
RP ℄ I-80

HOUBOLT RD

EX A/C AND ROW

WB I-80
EB I-80

4 ZEF1 3 ZCD1 6 ZCD2 5 ZEF9 3 ZGH1 3 ZGH2 4 ZKL3

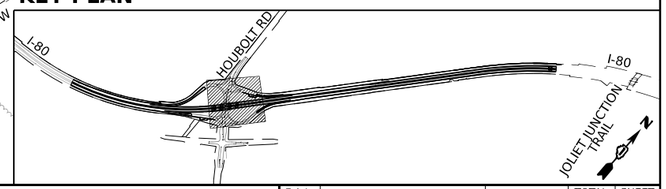
ZO1 ZO2 ZO3 ZO8 ZO9 ZP1 ZP2 ZP7 ZP8 ZP9

SEE SHEET NO. 435
MATCHLINE STA. 441+00.00

MATCHLINE STA. 453+00.00
SEE SHEET NO. 437

0 50 100 150
SCALE IN FEET

KEY PLAN



MODEL: Default
FILE NAME: pw://transystem-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LGHT_10.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOUBOLT INTERCHANGE TEMPORARY LIGHTING PLAN

SCALE: 1"=50' | SHEET 10 OF 34 SHEETS | STA. 441+00.00 | TO STA. 453+00.00

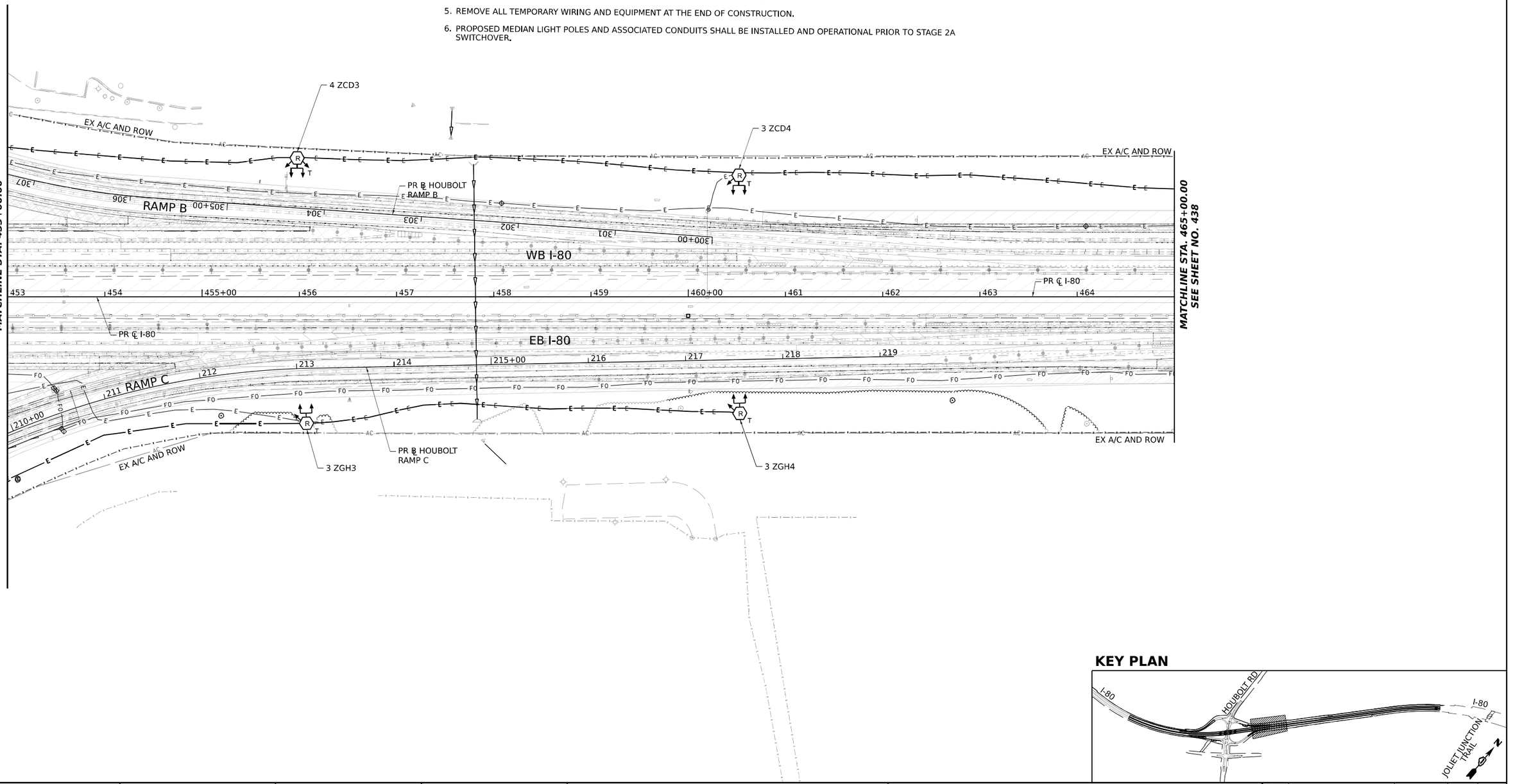
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	436
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE EXISTING LIGHT TOWERS MUST REMAIN IN PLACE AND FULLY OPERATIONAL TO PROVIDE THE SAME LIGHT LEVELS FOR THE MAINLINE ROADWAY AND INTERCHANGE RAMPS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT TOWERS OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER MAINTENANCE OF LIGHTING SYSTEM.
3. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
4. THE PERMANENT LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWERS, UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
5. REMOVE ALL TEMPORARY WIRING AND EQUIPMENT AT THE END OF CONSTRUCTION.
6. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER.

N

0 50 100 150
SCALE IN FEET



KEY PLAN

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOUBOLT INTERCHANGE TEMPORARY LIGHTING PLAN

SCALE: 1"=50' | SHEET 11 OF 34 SHEETS | STA. 453+00.00 TO STA. 465+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	437
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

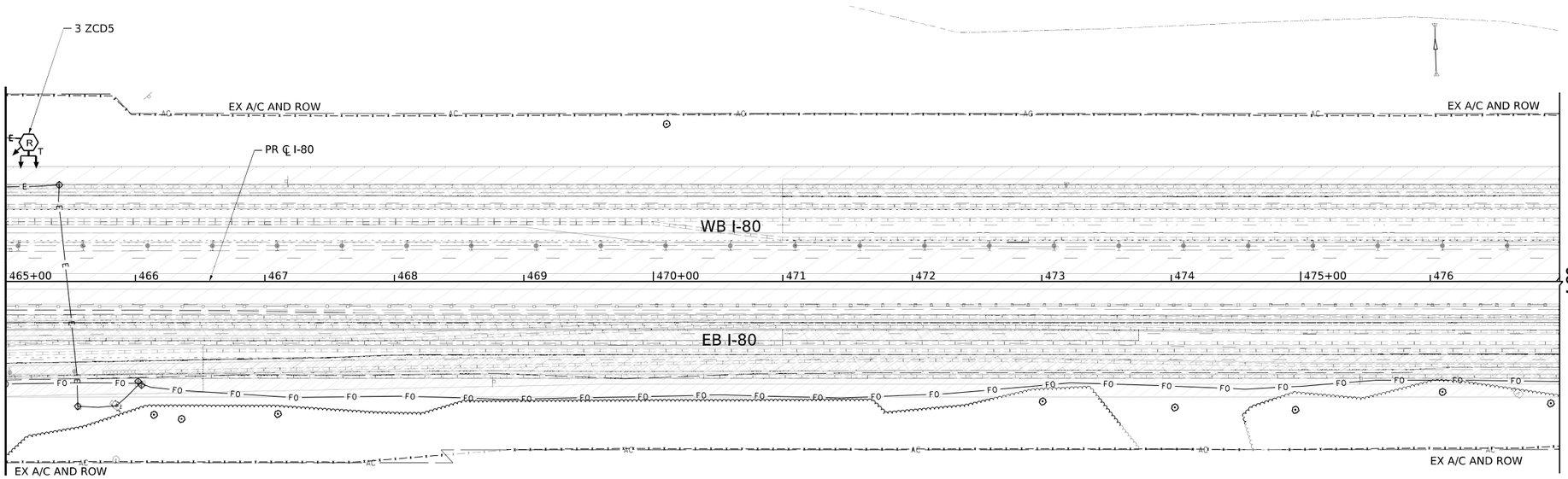
MODEL: Default
FILE NAME: pw:\\transystems-pw.bentley.com:transystems-pw1-hosted\Documents\Projects_2018\CH401\401180022\02-TransSystems\CAD\62R27\Sheets\21-Lighting\D162R27-SHT-LIGHT_11.dgn

NOTES:

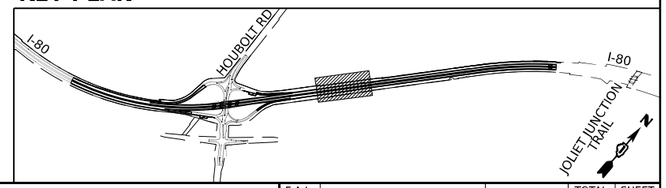
1. THE EXISTING LIGHT TOWERS MUST REMAIN IN PLACE AND FULLY OPERATIONAL TO PROVIDE THE SAME LIGHT LEVELS FOR THE MAINLINE ROADWAY AND INTERCHANGE RAMPS.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT TOWERS OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER MAINTENANCE OF LIGHTING SYSTEM.
3. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
4. THE PERMANENT LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING LIGHT TOWERS, UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
5. REMOVE ALL TEMPORARY WIRING AND EQUIPMENT AT THE END OF CONSTRUCTION.
6. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER.

N

0 50 100 150
SCALE IN FEET



KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-shosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LKHT-12.dgn

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

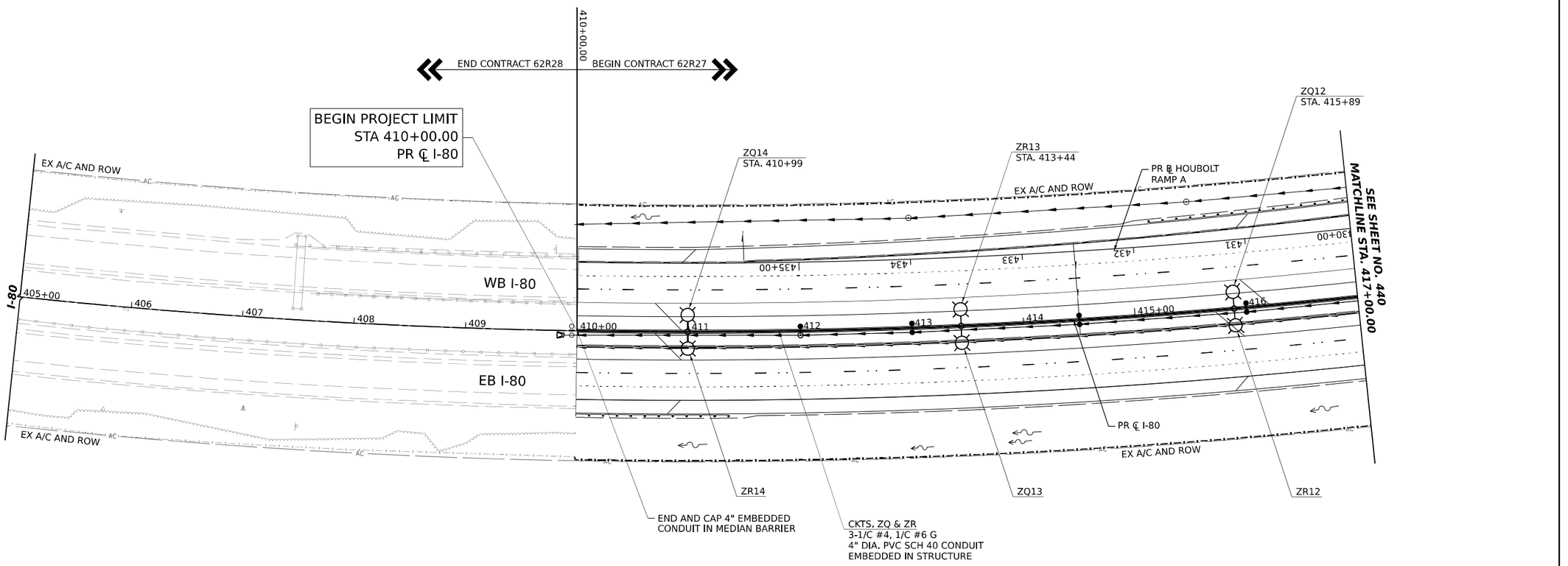
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

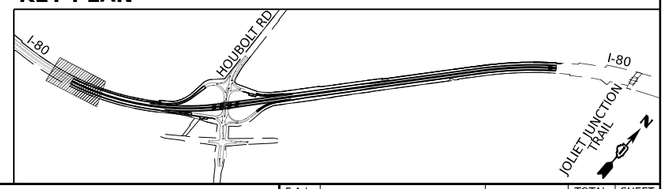
HOUBOLT INTERCHANGE TEMPORARY LIGHTING PLAN

SCALE: 1"=50' | SHEET 12 OF 34 SHEETS | STA. 465+00.00 | TO STA. 477+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	438
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-sw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LGHT-13.dgn

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

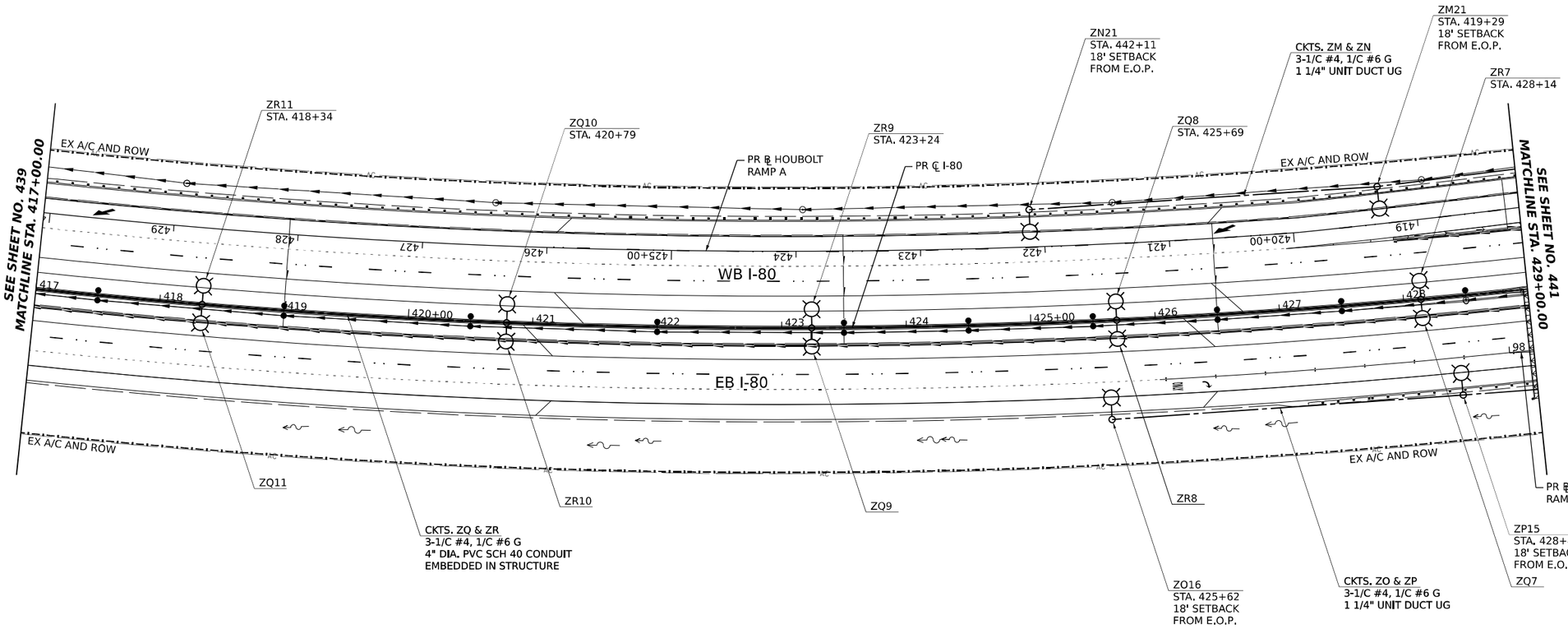
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

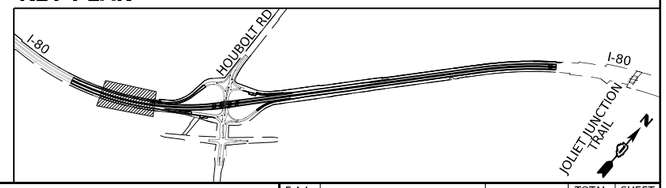
PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 13 OF 34 SHEETS | STA. 405+00.00 TO STA. 417+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	439
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH4014018002202-TranSystems\CAD\62R27\Sheets\21-Lighting\D162R27-SHT-LIGHT-14.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 14 OF 34 SHEETS | STA. 417+00.00 | TO STA. 429+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	440
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. DUE TO TEMPORARY PAVEMENT TO BE INSTALLED IN STAGE 2A LIGHTING UNITS ZO14 AND ZP14 MUST BE INSTALLED IN A LATER STAGE THAN THE REST OF THE PROPOSED LIGHTING UNITS ALONG RAMP D. INSTALL THE PROPOSED UNDERGROUND LIGHTING FEED SHOWN AND COIL 15 FEET OF EXCESS UNIT DUCT NEAR THE PROPOSED LOCATIONS OF ZO14 AND ZP14. BURY THE UNIT DUCT AND PROTECT IT UNTIL ZO14 AND ZP14 CAN BE INSTALLED. ONCE THE PROPOSED LIGHTING UNITS HAVE BEEN INSTALLED ROUTE THE EXCESS UNIT DUCT INTO THE BASE OF THE LIGHT POLES AND SPLICE THE UNIT DUCT TO THE LIGHTING CIRCUIT CABLES INSIDE THE POLES.

N

0 50 100 150
SCALE IN FEET

ZM19
STA. 407+84
18' SETBACK
FROM E.O.P.

PR ℄ HOUBOLT
RAMP A

ZN19
STA. 410+70
18' SETBACK
FROM E.O.P.

CKTS. ZM & ZN
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG

ZN20
STA. 416+48
18' SETBACK
FROM E.O.P.

ZM20
STA. 413+60
18' SETBACK
FROM E.O.P.

ZQ6
STA. 430+69

ZR5
STA. 433+24

ZQ2
STA. 440+89

ZR3
STA. 438+34

ZQ4
STA. 435+79

EX A/C AND ROW

RAMP A

WB I-80

EB I-80

SEE SHEET NO. 440
MATCHLINE STA. 429+00.00

SEE SHEET NO. 442
MATCHLINE STA. 441+00.00

ZQ5

ZR4

ZQ3

ZR2

PR ℄ I-80

ZO15
STA. 100+42
18' SETBACK
FROM E.O.P.

ZR6

CKTS. ZO & ZP
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG

ZP14
STA. 103+04
18' SETBACK
FROM E.O.P.
NOTE 1

CKTS. ZQ & ZR
3-1/C #4, 1/C #6 G
4" DIA. PVC SCH 40 CONDUIT
EMBEDDED IN STRUCTURE

PR ℄ HOUBOLT
RAMP D

ZO14
STA. 105+44
18' SETBACK
FROM E.O.P.
NOTE 1

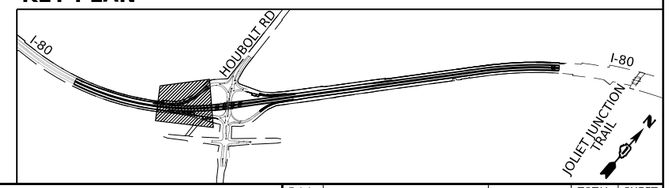
RAMP D

ZP12
STA. 110+31
18' SETBACK
FROM E.O.P.

ZP13
STA. 108+00
18' SETBACK
FROM E.O.P.

ZO13
STA. 109+27
18' SETBACK
FROM E.O.P.

KEY PLAN



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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 15 OF 34 SHEETS | STA. 429+00.00 | TO STA. 441+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	441
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/21-LightingD162R27-SHT-_IGHT-_15.dgn

ZN13
EX. CKTS. ZM & ZN
ZM13
EXISTING IDOT LIGHTING CONTROLLER 'Z', 240/480V, 1-PHASE, 3-WIRE, L0775
ZN3
ZM2
ZN2
2-4" DIA. PVC SCH. 80 CONDUIT UG
(1) CKTS ZS & ZT: 3-1/C #4, 1/C #6 GND IN 1-1/4" UD
(1) CKTS ZQ & ZR: 3-1/C #2, 1/C #4 GND IN 1-1/2" UD
ZM11
ZN4
ZN10
ZM4
EX A/C AND ROW
ZM10
CKT "M" & "N"
3-1/C #2, 1/C #4 GND (TYP)
RP ℄ HOUBOLT
RAMP B
CKTS. ZM & ZN
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG
ZN16
STA. 309+84
18' SETBACK
FROM E.O.P.
ZM15
STA. 309+33
18' SETBACK
FROM E.O.P.
ZM16
STA. 307+64
18' SETBACK
FROM E.O.P.
RAMP A
CKTS. ZM & ZN
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG
ZM6
RP ℄ HOUBOLT
RAMP A
ZN7
2-4" DIA. PVC SCH. 80 CONDUIT UG
(1) CKTS ZS & ZT: 3-1/C #4, 1/C #6 GND IN 1-1/4" UD
(1) CKTS ZQ & ZR: 3-1/C #2, 1/C #4 GND IN 1-1/2" UD
ZN5
CKTS. ZQ & ZR
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT (TYP.)
CKTS. ZS & ZT
3-1/C #2, 1/C #4 G
1 1/2" UNIT DUCT (TYP.)
ZM5
2-4" DIA. PVC SCH. 80 CONDUIT UG
(1) CKTS ZS & ZT: 3-1/C #4,
1/C #6 GND IN 1-1/4" UD
(1) CKTS ZQ & ZR: 3-1/C #2,
1/C #4 GND IN 1-1/2" UD
HOUBOLT RD
ZN11
ZN8
ZM7
ZN9
EX. CKTS. ZM & ZN
ZM8
EX A/C AND ROW
ZN6
CKTS. ZQ & ZR
3-1/C #4, 1/C #6 G
4" DIA. PVC SCH. 40 CONDUIT
EMBEDDED IN STRUCTURE
ZM9
CKTS. ZS & ZT
3-1/C #2, 1/C #4 G
2" DIA. PVC SCH 40 CONDUIT
EMBEDDED IN STRUCTURE
ZR1
STA. 443+34
ZT1
STA. 445+79
ZS2
STA. 448+29
PR ℄ I-80
WB I-80
EB I-80
ZQ1
NOTE 1
JB, NM, 20"x13"x12", EIS
ZS1
CKTS. ZS & ZT
3-1/C #2, 1/C #4 G
4" DIA. PVC SCH 40 CONDUIT
EMBEDDED IN STRUCTURE
ZT2
ZT3
STA. 450+79
ZS3
CKT "O" & "P"
3-1/C #2, 1/C #4 GND (TYP)
ZO1
RP ℄ HOUBOLT
RAMP D
ZO2
ZP1
ZP8
ZO8
EX. CKTS. ZO & ZP
ZO9
ZP7
ZP2
EX. CKTS. ZO & ZP
ZO3
CKTS. ZO & ZP
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG
EX A/C AND ROW
ZP9
CKTS. ZO & ZP
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG
ZP10
STA. 208+30
18' SETBACK
FROM E.O.P.
RAMP C
RP ℄ HOUBOLT
RAMP C
MATCHLINE
STA. 206+00.00
EX A/C AND ROW
ZP6
ZP7
ZO7
EX. CKTS. ZM & ZN
ZO10
STA. 205+51
18' SETBACK
FROM E.O.P.
CKTS. ZO & ZP
3-1/C #4, 1/C #6 G
1 1/4" UNIT DUCT UG
MATCHLINE
STA. 206+00.00
SEE SHEET NO. 441
MATCHLINE STA. 441+00.00
MATCHLINE STA. 453+00.00
SEE SHEET NO. 443

NOTES:

1. SEE THE HOUBOLT ROAD UNDERPASS LIGHTING PLAN FOR THE CONTINUATION OF LIGHTING CIRCUIT FEEDS O AND P.

0 50 100 150
SCALE IN FEET

KEY PLAN
I-80
HOUBOLT RD
I-80
JOLIET JUNCTION TRAIL

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw13-hosted/Documents/Projects_2018/CH401401180022/02-TransSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_16.dgn

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

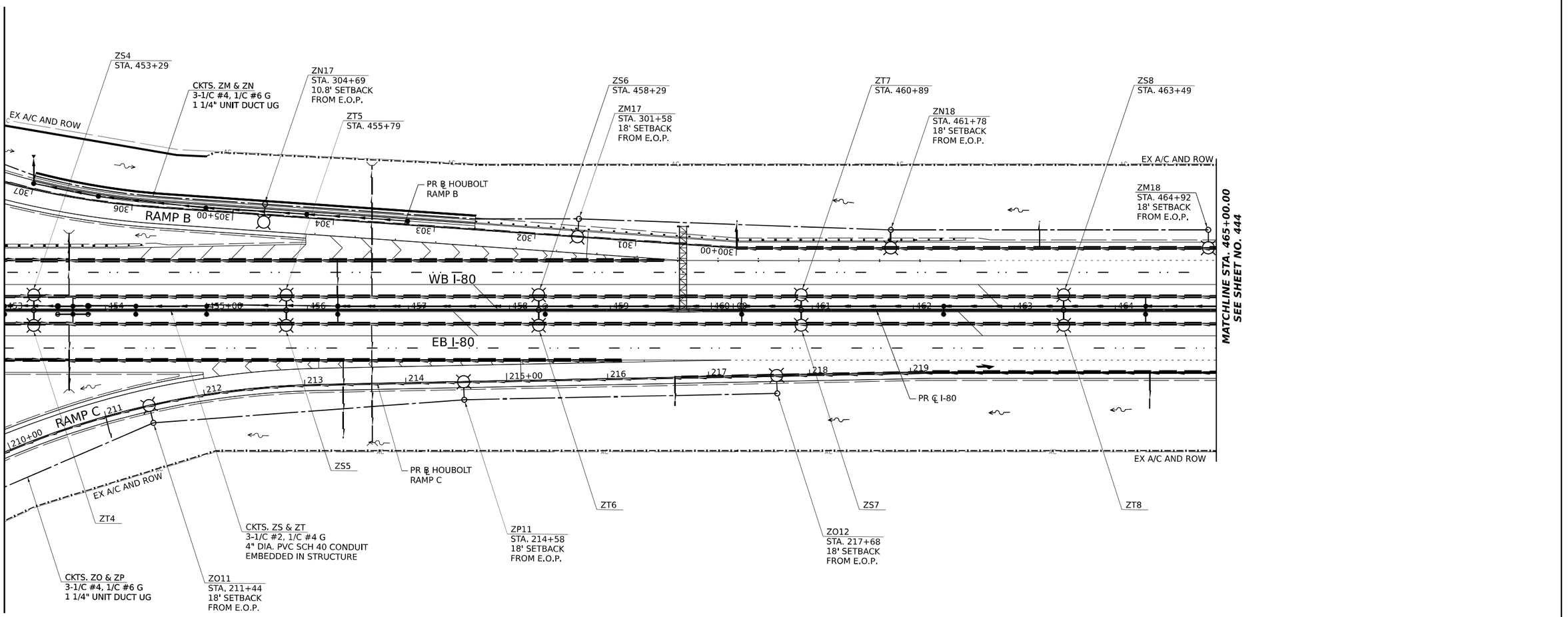
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

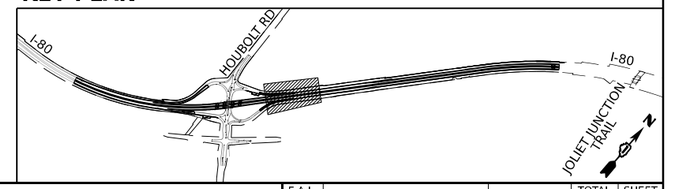
PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 16 OF 34 SHEETS | STA. 441+00.00 | TO STA. 453+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	442
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



KEY PLAN



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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

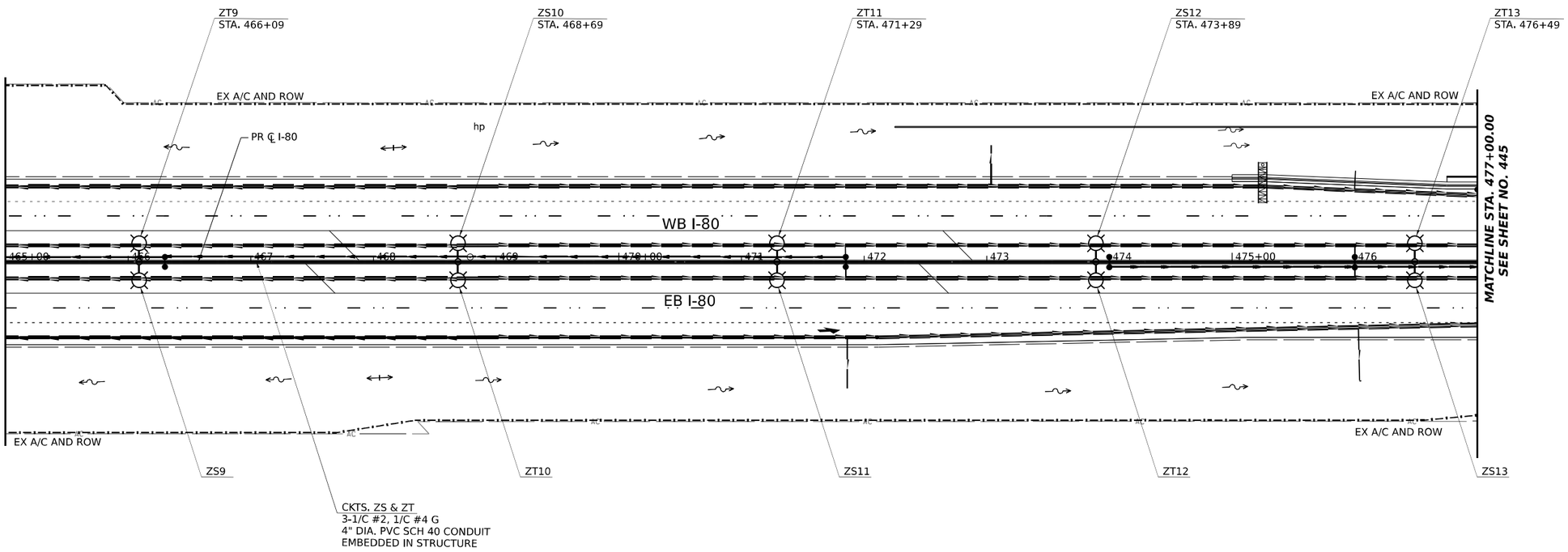
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

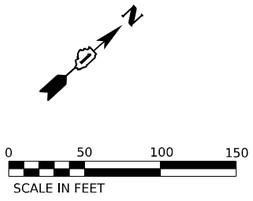
PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 17 OF 34 SHEETS | STA. 453+00.00 | TO STA. 465+00.00

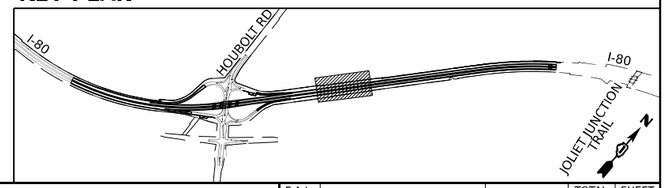
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	443
		CONTRACT NO.62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/21-Lighting/D162R27-Sht-LGHT_17.dgn





KEY PLAN

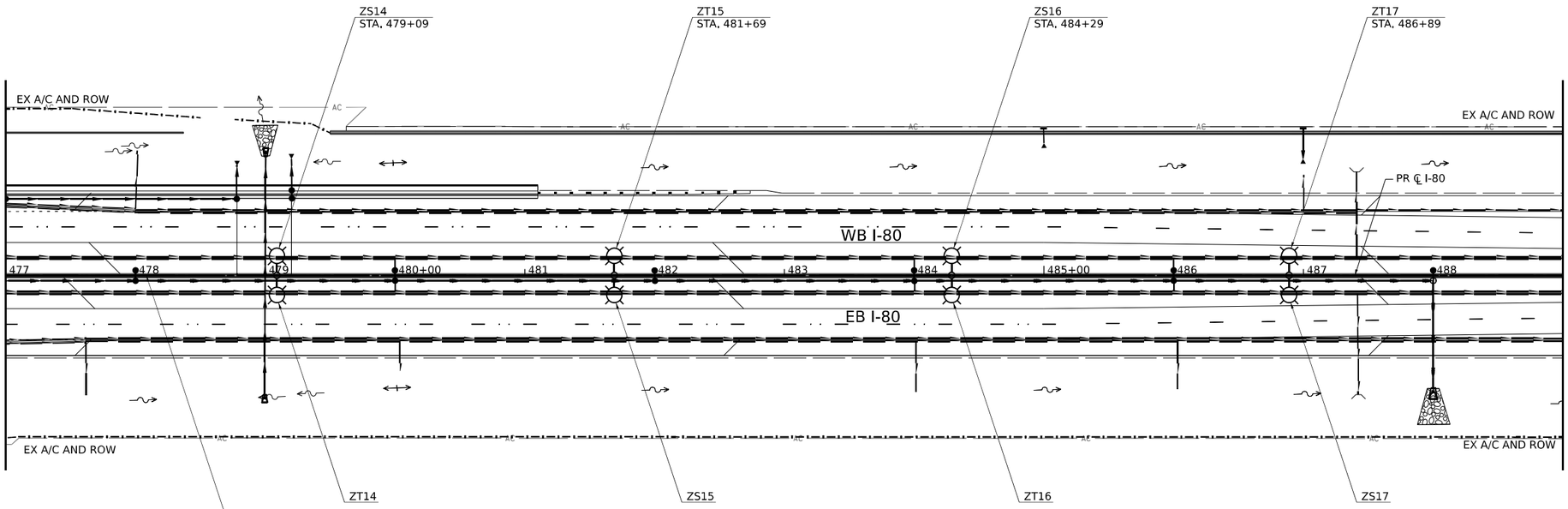


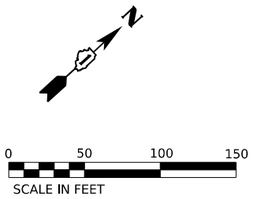
MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-hosted/Documents/Projects_2018/CH401140118002202-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_18.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6000

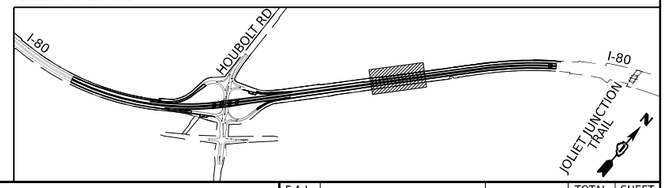
USER NAME = myersc	DESIGNED - UCM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN
	DRAWN - CAM	REVISED -		
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -		SCALE: 1"=50' | SHEET 18 OF 34 SHEETS | STA. 465+00.00 TO STA. 477+00.00
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	444
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		





KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw3-hosted/Documents/Projects_2018/CH4011401180022/02-TranSystems\CAD\62R27\Sheets\21-Lighting\D16ZR27-SHT-LIGHT_19.dgn

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

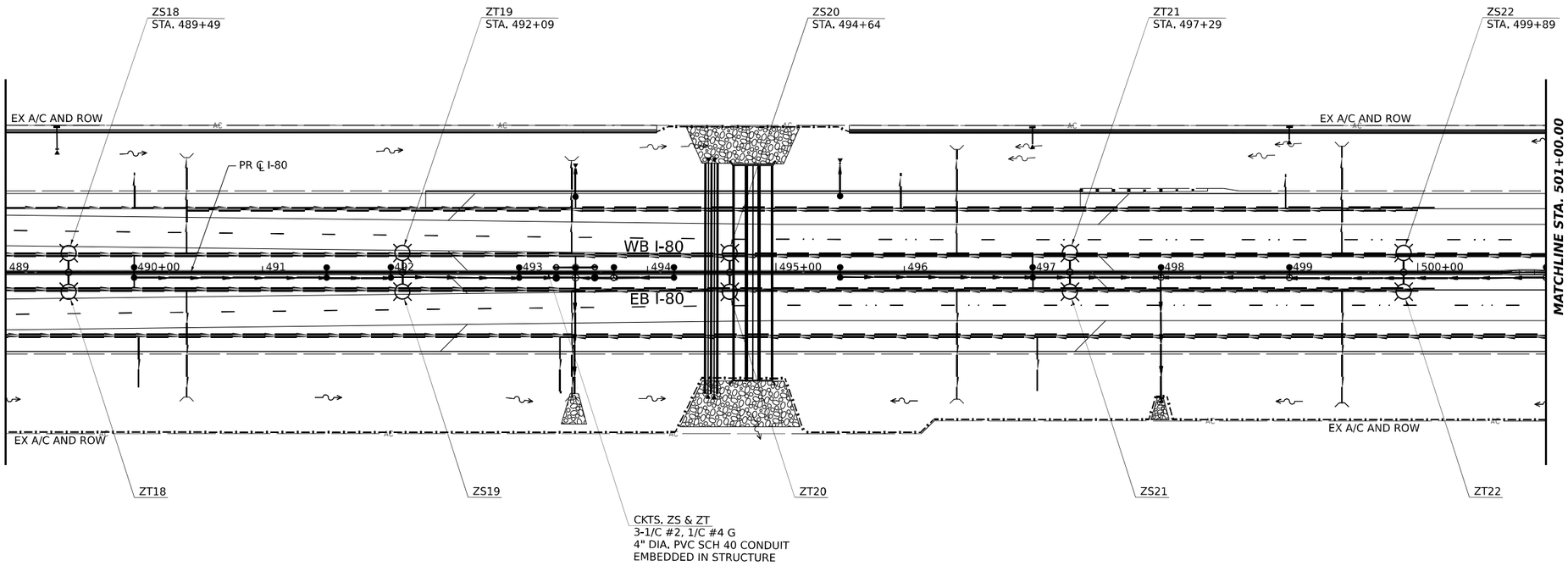
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

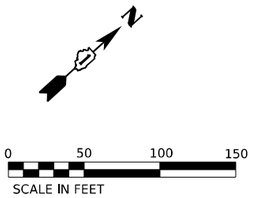
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

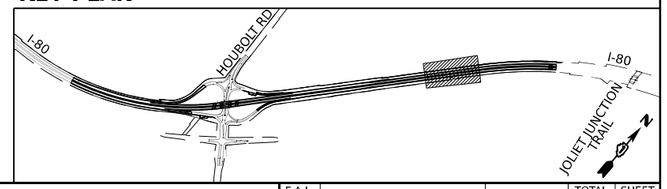
SCALE: 1"=50' | SHEET 19 OF 34 SHEETS | STA. 477+00.00 | TO STA. 489+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	445
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			





KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transsys/connect-pw-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_20.dgn

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

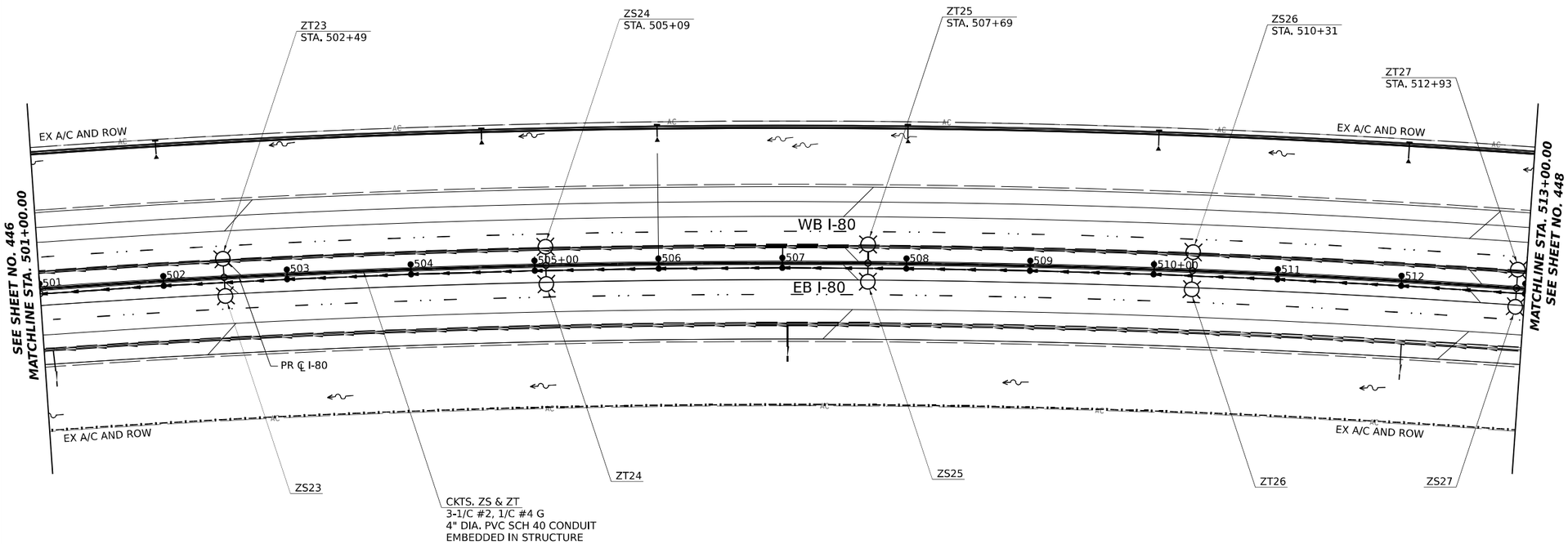
USER NAME = myersc	DESIGNED - UCM	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -

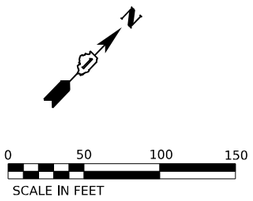
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

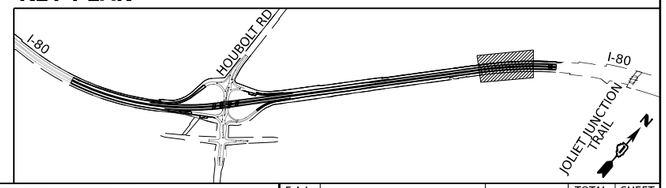
SCALE: 1"=50' | SHEET 20 OF 34 SHEETS | STA. 489+00.00 | TO STA. 501+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	446
		CONTRACT NO.62R27		
	ILLINOIS	FED. AID PROJECT		





KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-host01/Documents/Projects_2018/C-1401/1401180022/02-Tech/Systems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_21.dgn

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

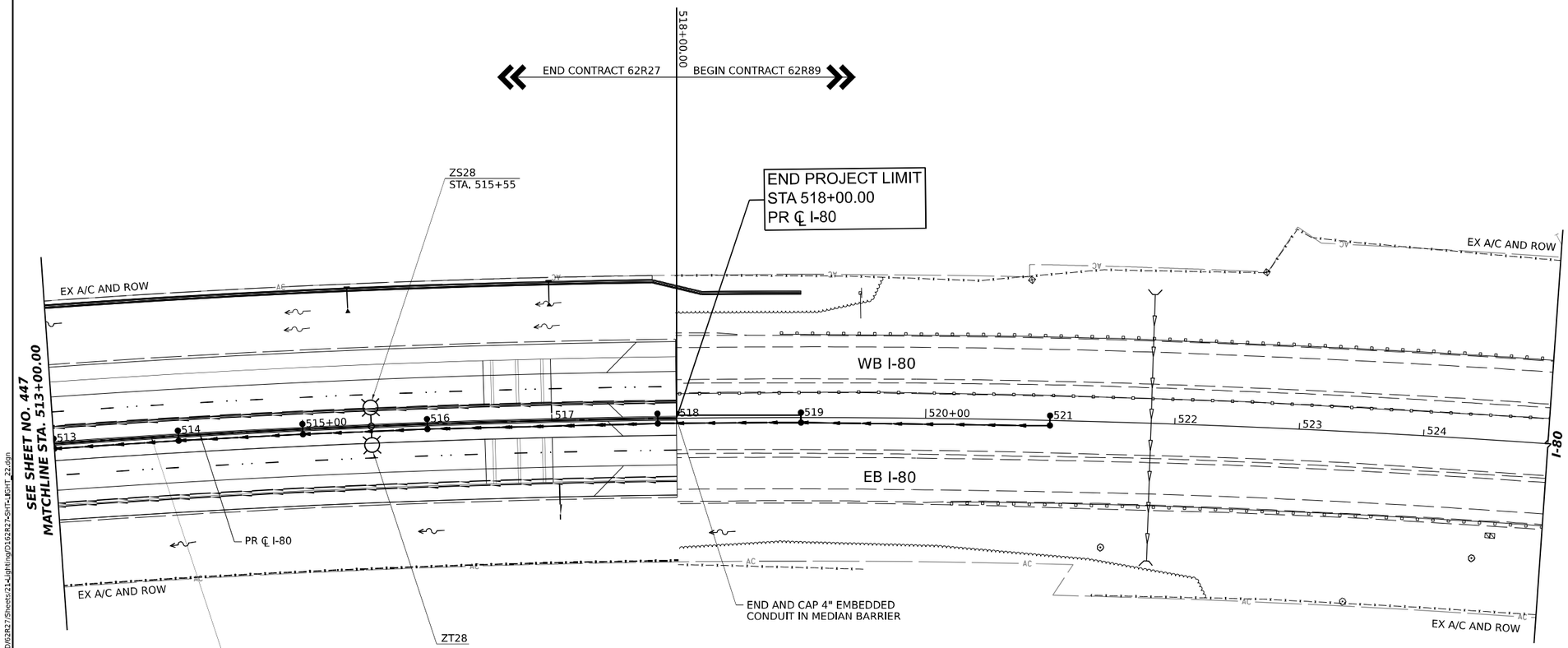
USER NAME	= myersc	DESIGNED	- UCM	REVISED	-
		DRAWN	- CAM	REVISED	-
PLOT SCALE	= 100.000 ' / in.	CHECKED	- MAE	REVISED	-
PLOT DATE	= 6/21/2023	DATE	- 6/26/23	REVISED	-

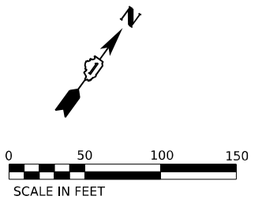
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

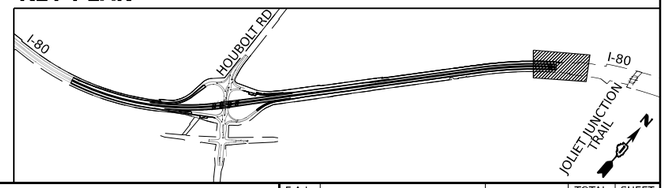
SCALE: 1"=50' | SHEET 21 OF 34 SHEETS | STA. 501+00.00 | TO STA. 513+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	447
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			





KEY PLAN



MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT-22.dgn

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

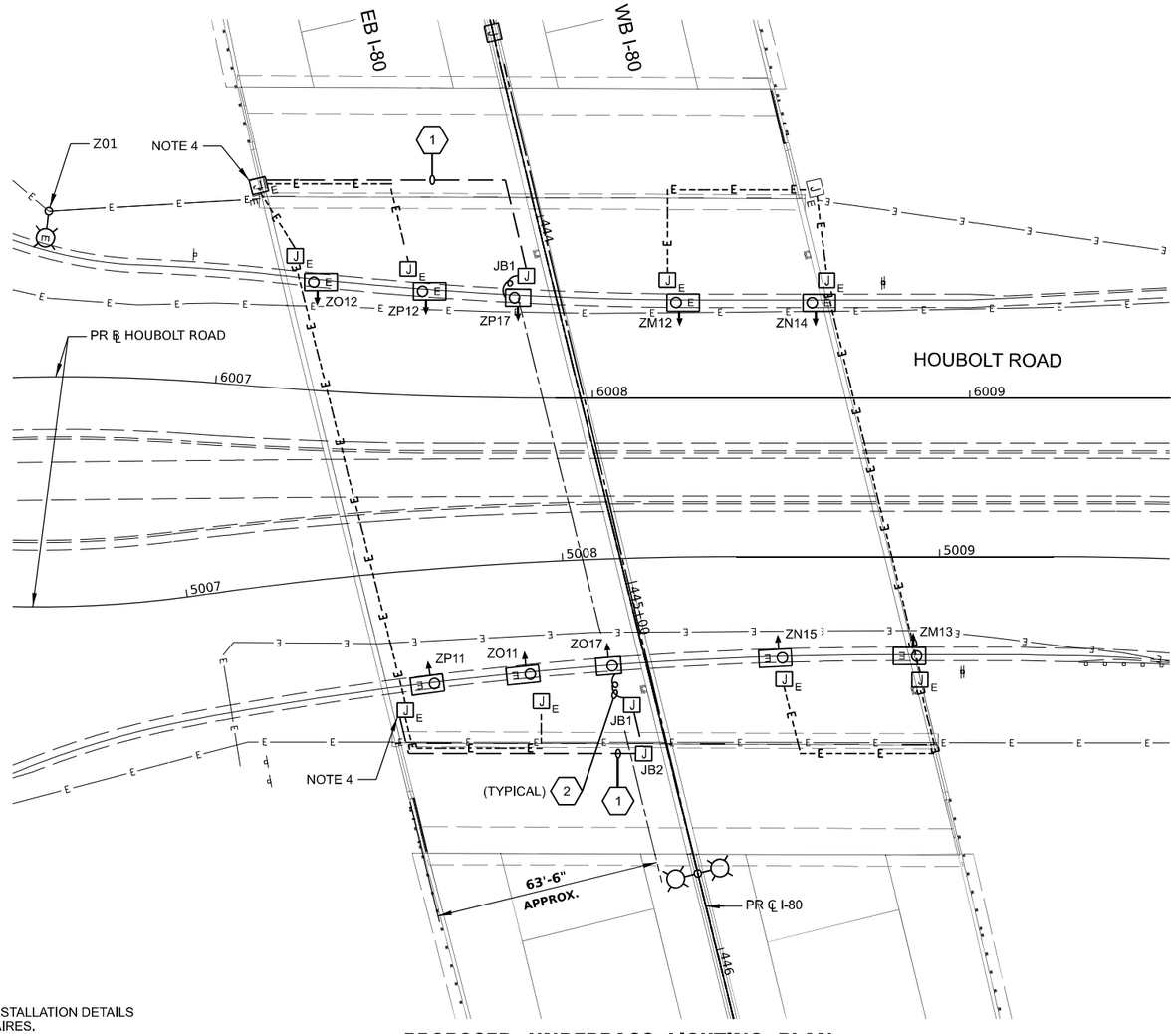
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.000 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1"=50' | SHEET 22 OF 34 SHEETS | STA. 513+00.00 | TO STA. 525+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	448
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



PROPOSED UNDERPASS LIGHTING PLAN

NOTES 3 AND 5

NOTES

1. SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
2. SEE IDOT STANDARD DRAWING BE-901 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER 'Z'.
4. DRILL THE EXISTING JUNCTION BOX AND ROUTE NEW CONDUIT AND LIGHTING CABLES TO PROPOSED JUNCTION BOX TO POWER NEW UNDERPASS LUMINIARE.
5. THE EXISTING UNDERPASS SYSTEM SHALL BE PROTECTED AND MAINTAINED DURING THE REMOVAL AND RECONSTRUCTION OF THE BRIDGE DECK. ALL NECESSARY WORK AND MATERIALS SHALL BE COVERED BY THE PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRE PAY ITEM.

PROPOSED LED UNDERPASS LUMINAIRE OUTPUT DESIGNATION D

EXISTING UNDERPASS LUMINAIRE

UNDERPASS LUMINAIRE TABLE (CONTROLLER 'Z')				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
ZO17	HOUBOLT	STA. 5008+17.9, 9.4 RT	NOTES 2 & 3	SUSPENDED
ZP17	HOUBOLT	STA. 6007+89.8, 26.3 LT	NOTES 2 & 3	SUSPENDED

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	2-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C#10, 1-1/C#10 GND IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

0 20 40 60
SCALE IN FEET

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

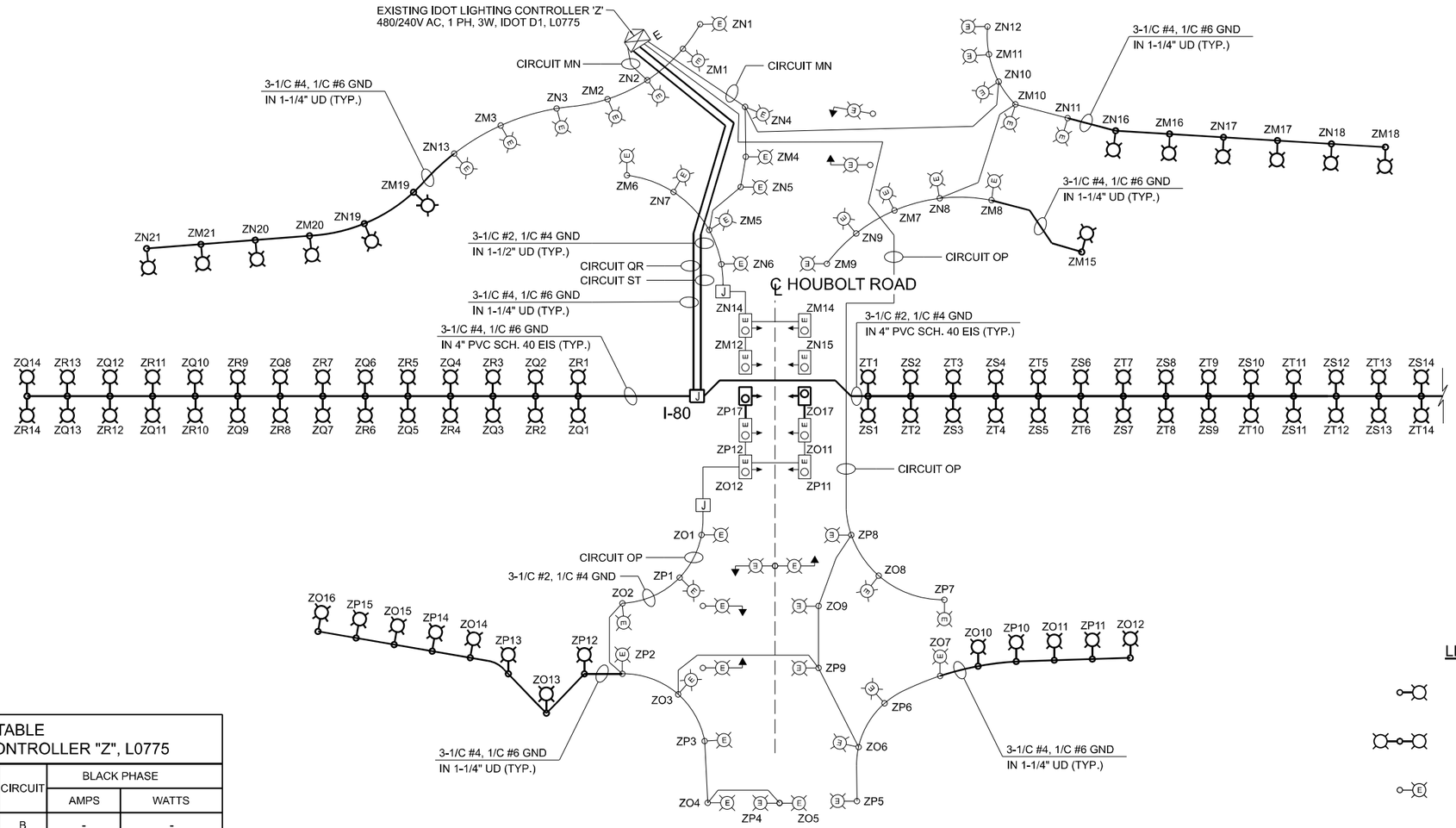
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOUBOLT ROAD UNDERPASS LIGHTING PLAN

SCALE: 1"=20' | SHEET 23 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	449
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com:transystemspw1-hosted/Documents/Projects_2018/C-14014011800202/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-HGHT_23.dgn



LOAD TABLE
EXISTING LIGHTING CONTROLLER "Z", L0775

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	-	-	B	-	-
C	-	-	D	-	-
E	-	-	F	-	-
G	-	-	H	-	-
I	-	-	J	-	-
K	-	-	L	-	-
M	20.80	4992	N	21.90	5256
O	19.10	4584	P	18.00	4320
Q	15.40	3696	R	15.40	3696
S	30.80	7392	T	30.80	7392
U	-	-	V	-	-
W	-	-	X	-	-
TOTAL	86.1	20664	TOTAL	86.1	20664

LEGEND

- PROPOSED LIGHTING UNIT (LED LUMINAIRE)
- PROPOSED TWIN M.A. LIGHTING UNIT (LED LUMINAIRE)
- EXISTING LIGHTING UNIT
- EXISTING TWIN M.A. LIGHTING UNIT (LED LUMINAIRE)
- EXISTING COMBINATION LIGHTING UNIT
- E — EXISTING IDOT LIGHTING CONTROLLER CABINET
- UTILITY SERVICE CONNECTION
- J — JUNCTION BOX, ATTACHED TO STRUCTURE
- PROPOSED UNDERPASS LIGHTING UNIT, SUSPENDED MOUNT
- O E — EXISTING UNDERPASS LIGHTING UNIT

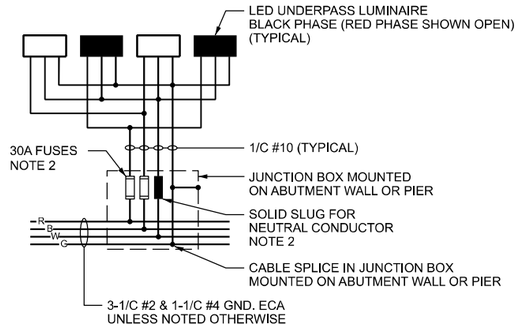
SINGLE LINE DIAGRAM - EXISTING IDOT LIGHTING CONTROLLER "Z", L0775

NOT TO SCALE

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAMS
	DRAWN - CAM	REVISED -		
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -		SCALE: N.T.S. SHEET 24 OF 34 SHEETS STA. TO STA.
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	450
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM

NOT TO SCALE

NOTES:

1. SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
2. THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.

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

USER NAME = myersc	DESIGNED - UCM	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

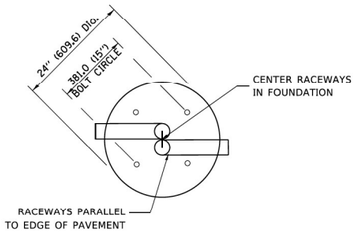
LIGHTING DETAILS

SCALE: N.T.S. | SHEET 25 OF 34 SHEETS | STA. | TO STA.

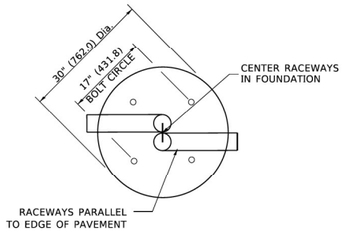
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	451
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

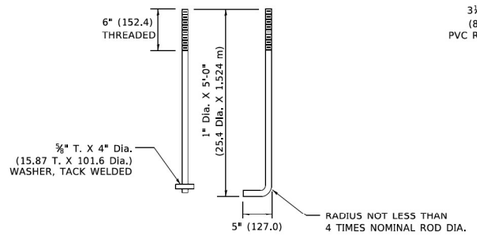
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND ∅ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND ∅ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND ∅ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



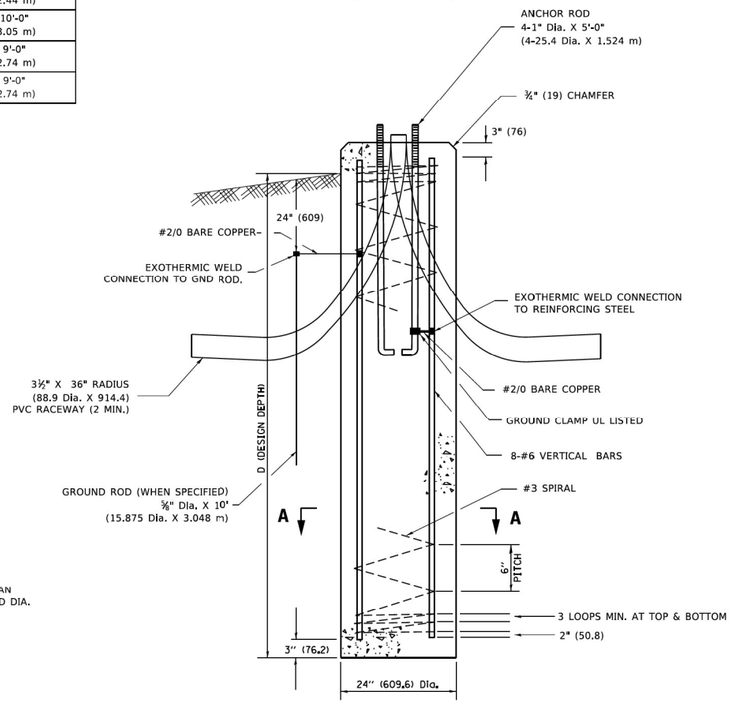
TOP VIEW



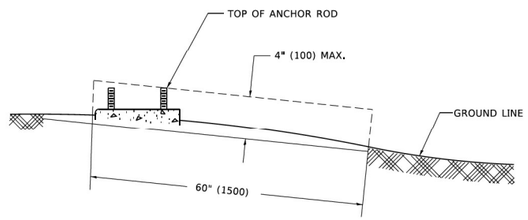
TOP VIEW



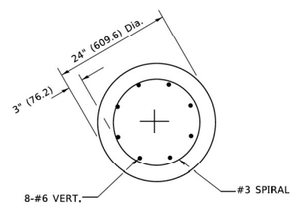
ANCHOR ROD DETAIL



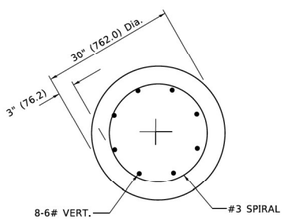
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A–A



SECTION A–A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3#4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

MODEL: Default
FILE NAME: pw:\\dakeroom.dot:illinois.gpw=PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\d22x34\CADData\CADsheets\se301.dgn

USER NAME = footemj	DESIGNED -	REVISED - 04-22-02	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 ½' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE–301	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

se301.dgn 4/19/2019 2:20:38 PM User=footemj

MODEL: Untitled [Sheet]
FILE NAME: pw:\\transystems=ew.bentley.com:transystemscorp-pw1=hosted/Documents/Projects_2018/CH401\401180022\02-TranSystems\CAD\62R27\Sheets\21-Lighting\D162R27-SHT-LIGHT_26.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6600

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

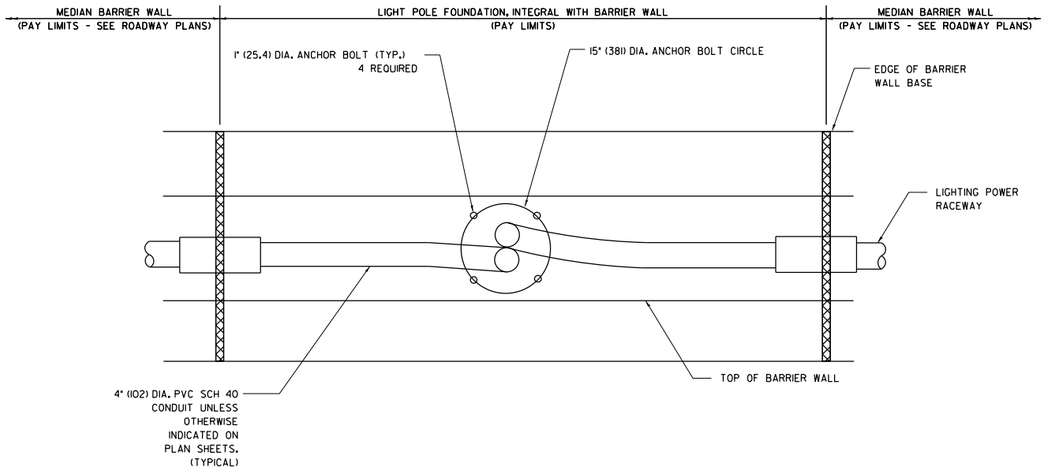
LIGHTING DETAILS

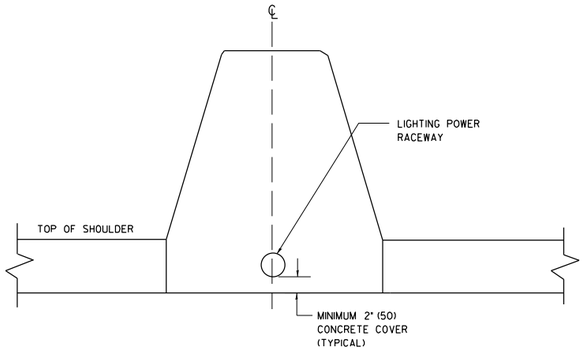
SCALE: N.T.S. | SHEET 26 OF 34 SHEETS | STA. | TO STA.

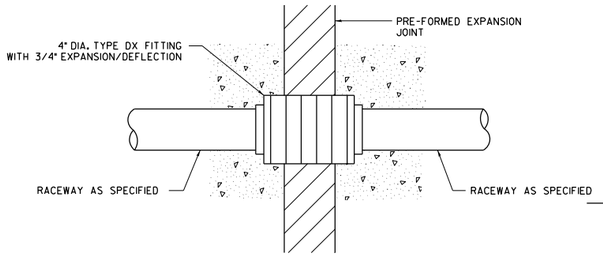
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	452
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

NOTES:

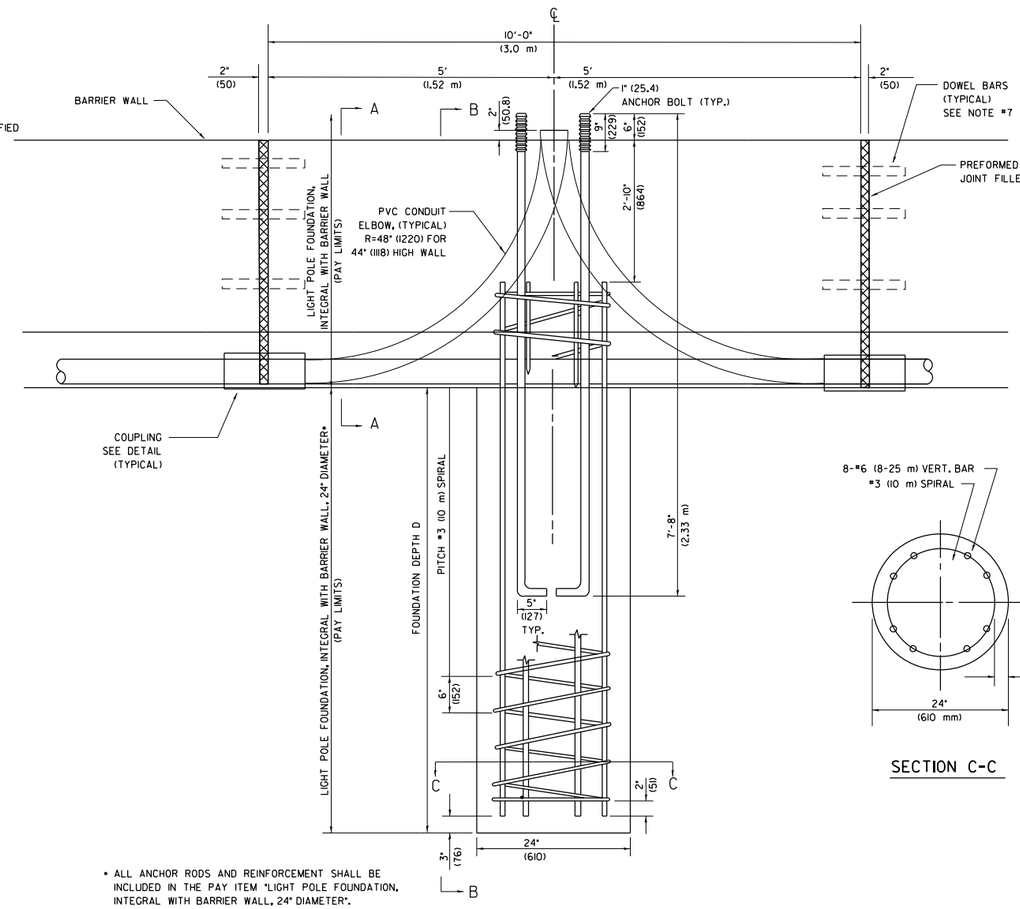
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS.
3. THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE #4 (15 m) TIES AT 12" (304.8 m) CTRS. FOR THE #3 (3 m) SPIRAL. TACKWELDED TYPE BOLT MAY BE SUBSTITUTED FOR THE HOOK TYPE BOLT.
4. COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
5. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24 INCHES (609.6 m) IN DIAMETER. ROCK EXCAVATION IF REQUIRED SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 502.
6. THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
7. BARRIER WALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 637006-05 AS APPLICABLE. SHAPE OF BARRIER TO MATCH ADJACENT BARRIER SECTIONS (TYPICAL OR VARIABLE HEIGHT).
8. ANCHOR RODS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLES 1070.02 AND 1006.09.







CONDUIT DEFLECTION FITTING DETAIL



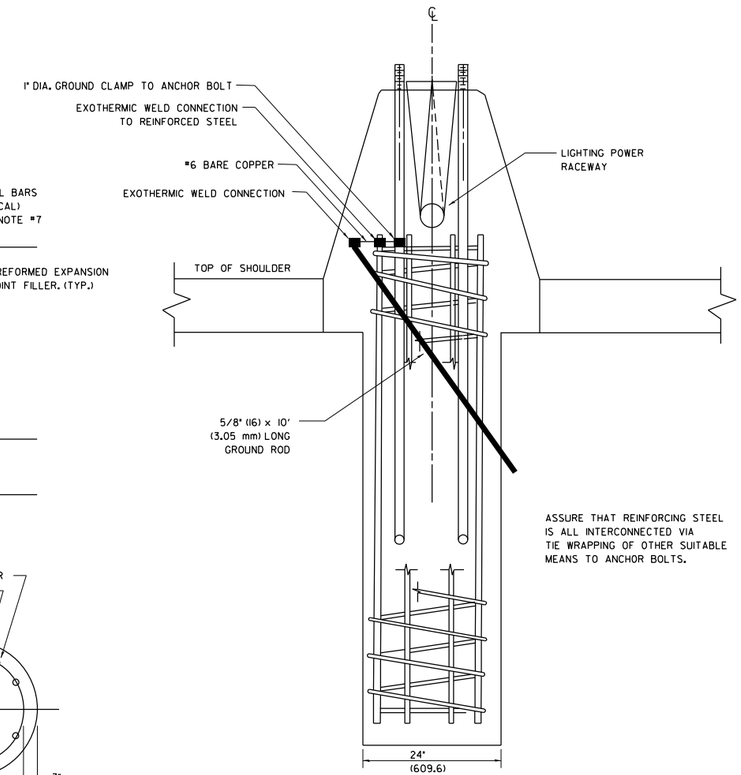
* ALL ANCHOR RODS AND REINFORCEMENT SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER".

FOUNDATION DEPTH

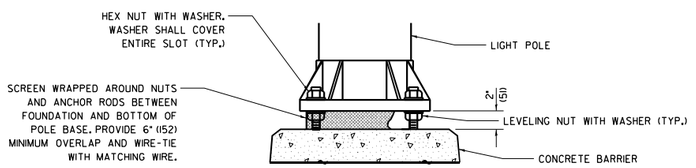
TYPE OF SOIL	FOUND DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
ROCK OR SOLIDIFIED SLAG	5'-0" (1.52 m)	NONE	NONE
DENSE SAND	7'-9" (2.36 m)	8-#6 x 9'-0" (8-20 m x 2.74 m)	#3 x 90' (3 m x 27.43 m)
MEDIUM SAND	8'-3" (2.51 m)	8-#6 x 9'-5" (8-20 m x 2.87 m)	#3 x 94' (3 m x 28.65 m)
LOOSE SAND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

SECTION C-C

SECTION A-A



SECTION B-B



ELEVATION AT CONCRETE BARRIER

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6000

USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 ' / In.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

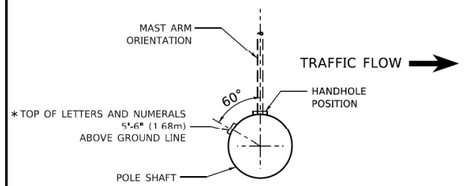
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
24" (610 mm) DIA. LIGHT POLE FOUNDATION
INTEGRAL WITH DOUBLE FACE BARRIER WALL

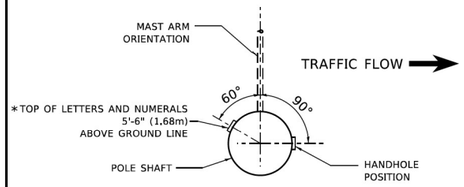
SCALE: N.T.S. | SHEET 27 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	453
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

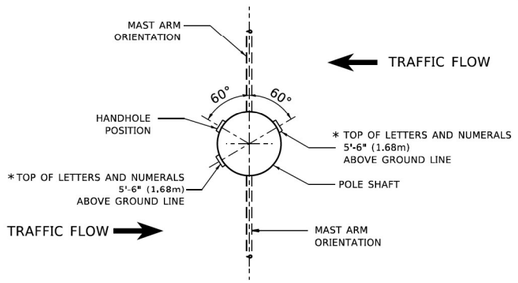
MODEL: Untitled [Sheet]
FILE NAME: pw:/transystems-pw.bentley.com:transystems-pw3-hosted/Documents/Projects_2018/CH401140118002202-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_27.dgn



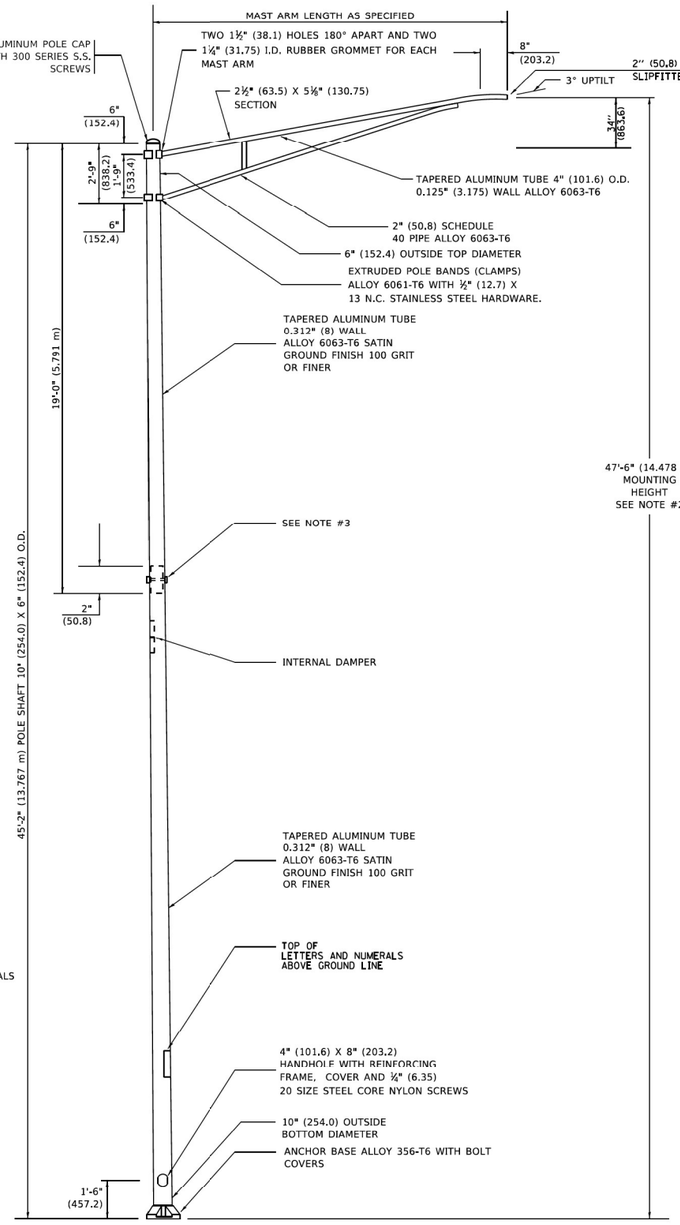
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

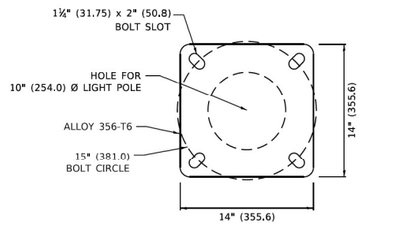


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



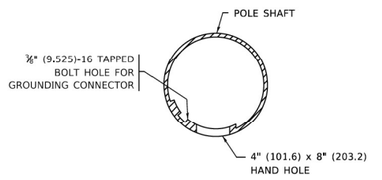
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

MODEL: Default
FILE NAME: WidBiss92x34be400.dgn

USER NAME = Lawrence.DeManche	DESIGNED -	REVISED - R. TOMSONS 09-03-03	
	DRAWN -	REVISED - R. TOMSONS 01-18-13	
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - R. TOMSONS 03-18-15	
PLOT DATE = 6/27/2022	DATE -	REVISED - 06/13/2022 TG	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE
47'–6" (14.478 m) MOUNTING HEIGHT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE–400	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

MODEL: Untitled [Sheet]
FILE NAME: pw://transystems-sw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH4013180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_28.dgn

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

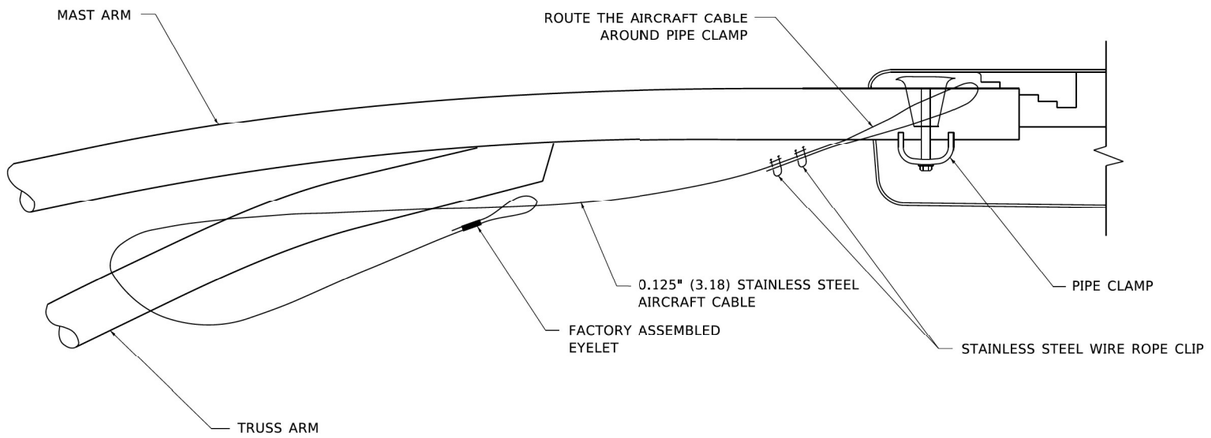
USER NAME = myersc	DESIGNED - UCM	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 0.08333772 ' / In.	CHECKED - MAE	REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

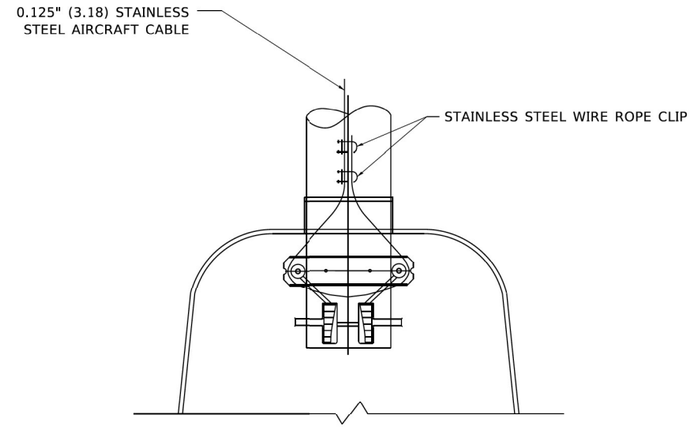
LIGHTING DETAILS

SCALE: N.T.S. | SHEET 28 OF 34 SHEETS | STA. | TO STA.

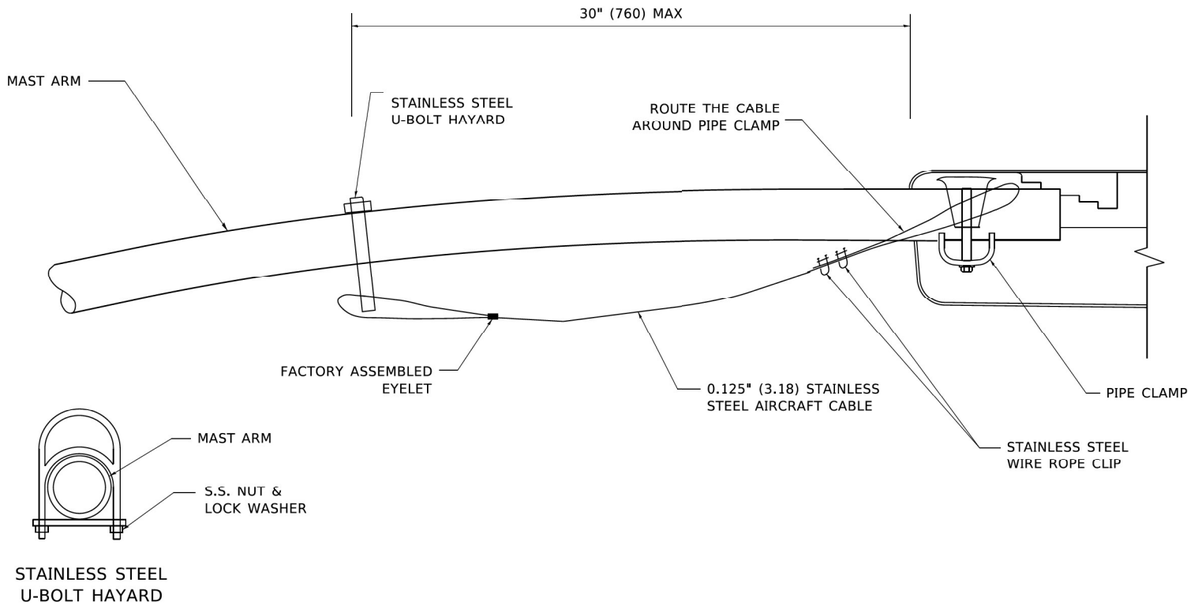
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	454
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



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



BOTTOM VIEW
N.T.S.



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

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. 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.

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

LUMINAIRE SAFETY CABLE ASSEMBLY
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-701	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\dakeroom.dot:illinois-pw:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\22x34\CADData\Cabsheets\be701.dgn

be701.dgn 4/19/2019 3:21:36 PM User=footemj

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

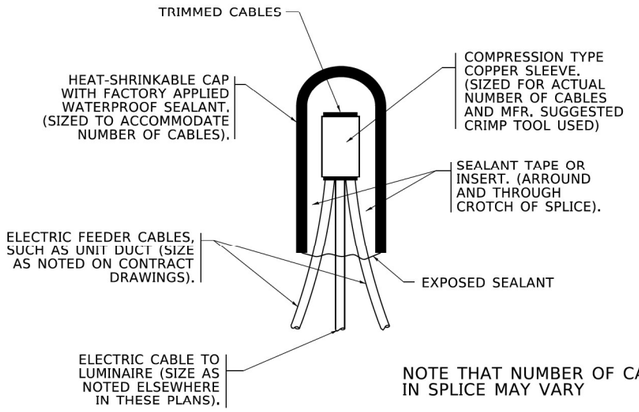
USER NAME = myersc	DESIGNED - UCM	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

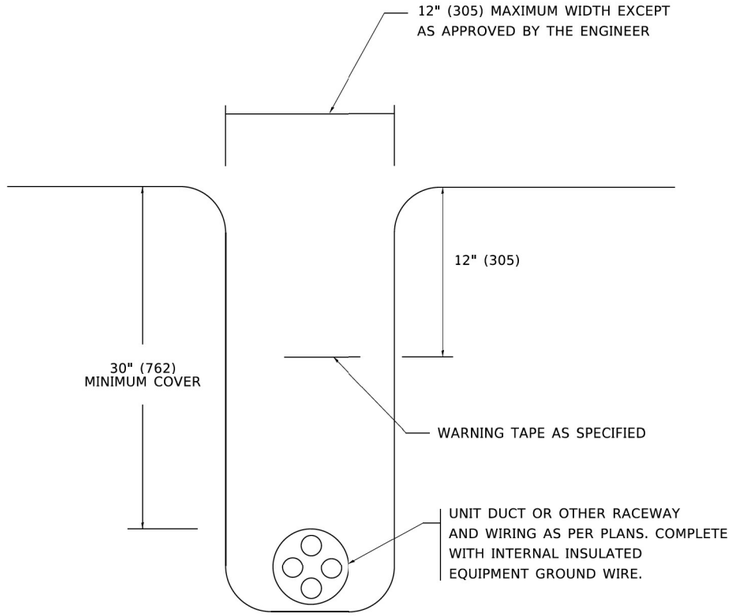
LIGHTING DETAILS
SCALE: N.T.S. | SHEET 29 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	455
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

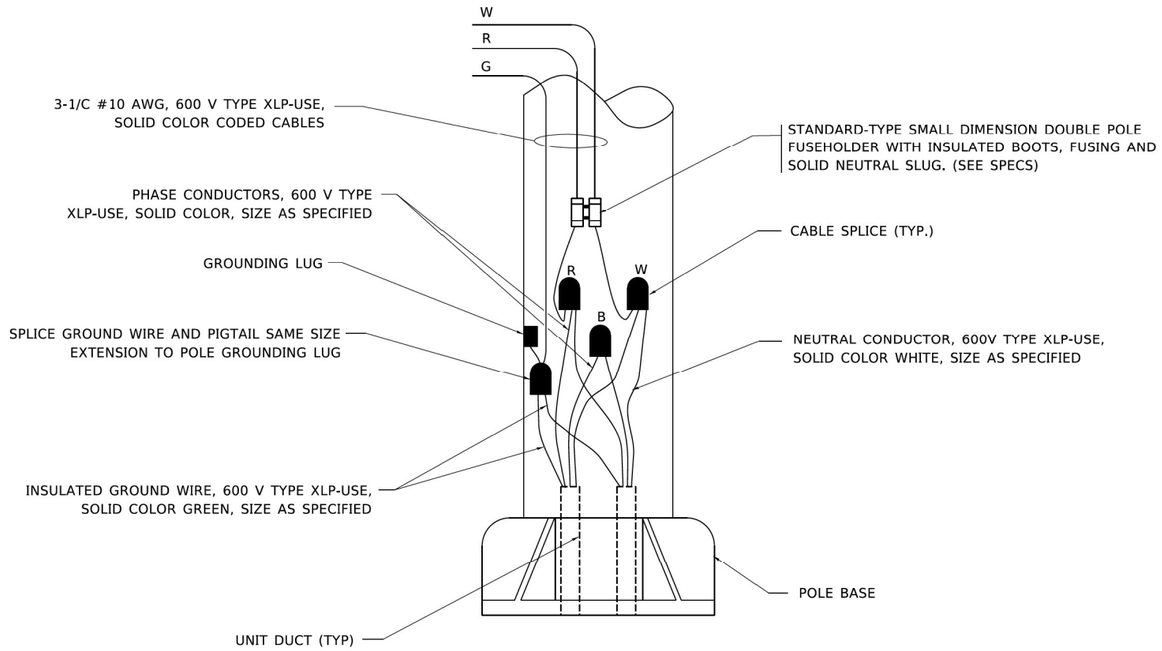
MODEL: Untitled [Sheet]
FILE NAME: pw:\\transystems-pw.bentley.com:transystems-pw1-hosted\Documents\Projects_2018\CH401\401180022\02-TranSystems\CAD\62R27\Sheets\21-Lighting\D162R27-Shit-LIGHT_29.dgn



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

MODEL: Default
FILE NAME: pw:\\plaproom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\Dierks 1\Projects\Dist5\d22x34\CADData\CADsheets\be702.dgn

USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

be702.dgn 3/2/2020 7:37:37 AM User:leysa

MODEL: Untitled [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-Hosted/Documents/Projects_2018/CH401/401180022/02-TransSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_30.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6000

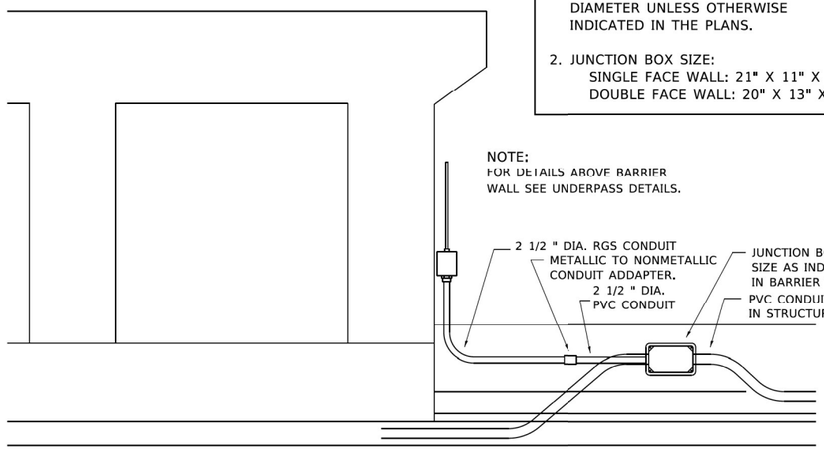
USER NAME = myersc	DESIGNED - UCM	REVISED -	
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. | SHEET 30 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	456
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

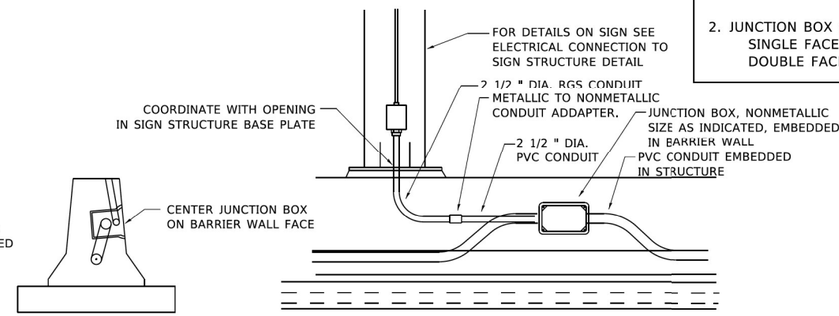


NOTES

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

ED - BWD

ELECTRIC CONNECTION TO UNDERPASS LIGHTING

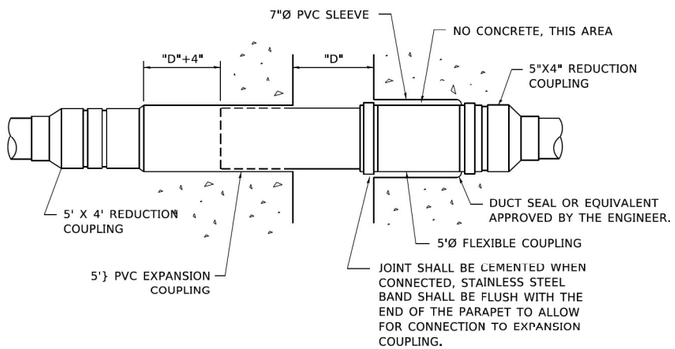


NOTES

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

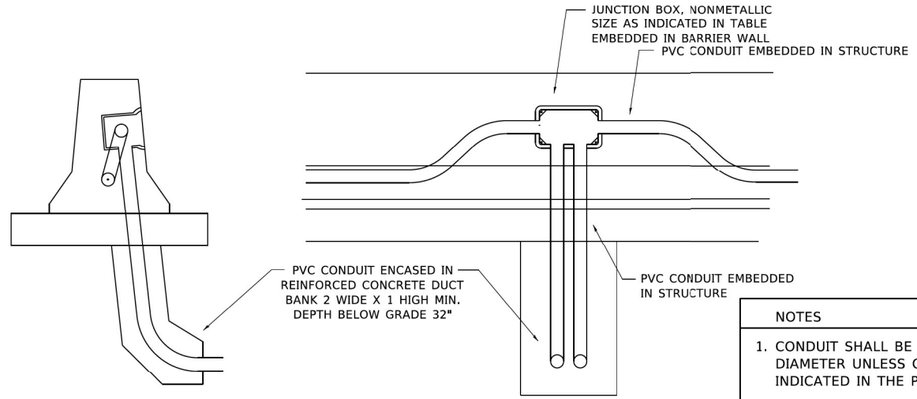
ED - SGN

JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT

(N.T.S.)



NOTES

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

ED - BW

JUNCTION BOX EMBEDDED IN BARRIER WALL

MODEL: Default
FILE NAME: pw:\\lakeroom.dot:illinois-pw1#hosted/Documents/Projects_2018\CH401\401180022\02-TranSystems\IDOT Offices\District 1\Projects\Dist5\st22x34\CADData\CADsheets\be703.dgn

be703 dgn 4/19/2019 3:22:59 PM User=footemj

USER NAME = footemj	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -		REVISED -
PLOT DATE = 4/19/2019	DATE -	01-20-2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B
J BOX EMBEDDED IN BARRIER WALL – INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT – ELECTRIC CONNECTION TO UNDERPASS LIGHTING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-703	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

MODEL: Untitled [Sheet]
FILE NAME: pw:\\transystems-pw.bentley.com:transys-pw1-hosted/Documents/Projects_2018\CH401\401180022\02-TranSystems\CAD\62R27\Sheets\21-Lighting\D162R27-Shrt-LGHT_31.dgn

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

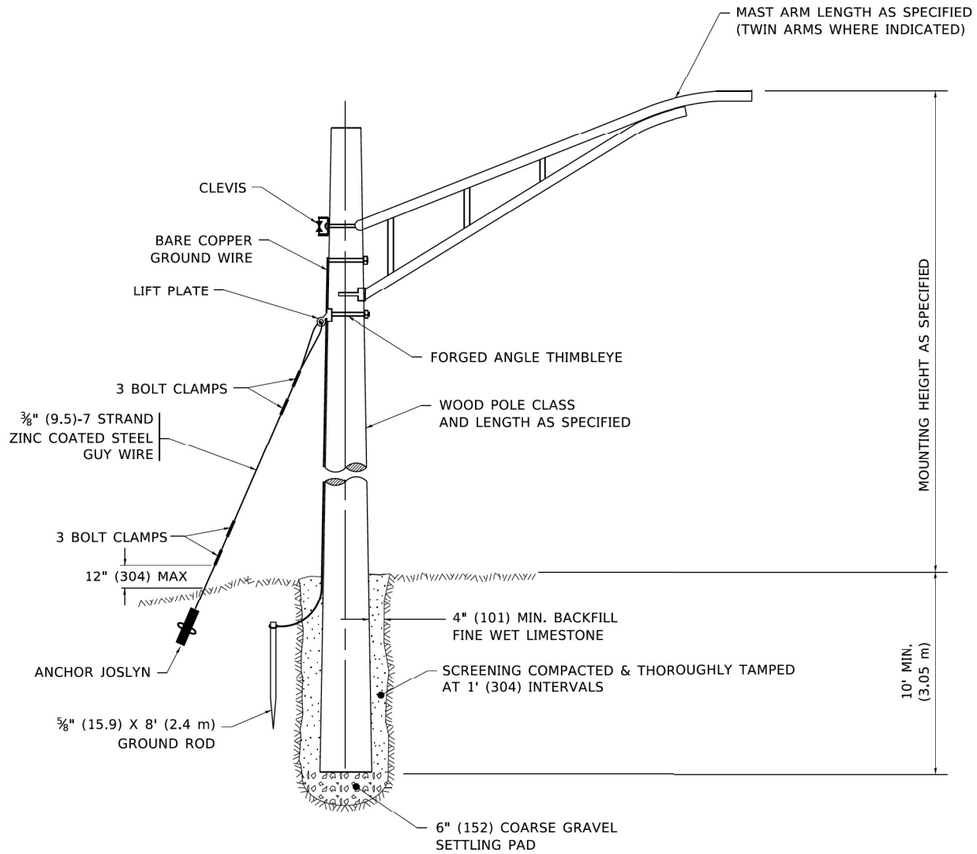
USER NAME = myersc	DESIGNED - UCM		REVISED -
	DRAWN - CAM		REVISED -
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE		REVISED -
PLOT DATE = 6/21/2023	DATE - 6/26/23		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

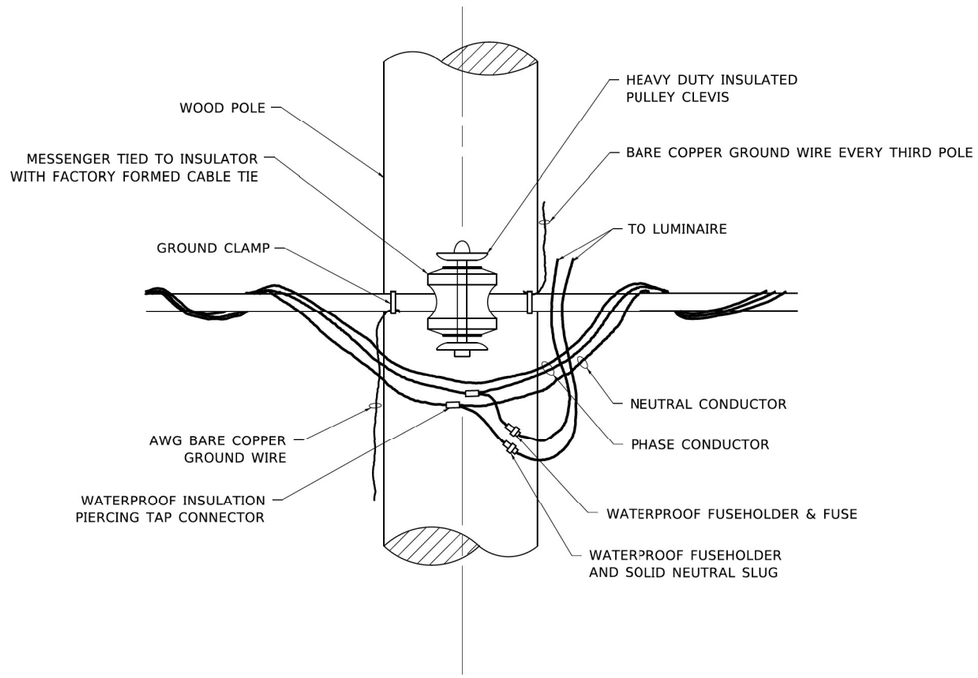
LIGHTING DETAILS

SCALE: N.T.S. | SHEET 31 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	457
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



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.

	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS
		DRAWN -	REVISED - R.T. 07-26-16		SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.
	PLOT SCALE = 50.0010 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 4/19/2019	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-800		CONTRACT NO.		
	ILLINOIS | FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\lakeroom.dot.illinois.gov:PWID0110\Documents\IDOT Offices\District 1\Projects\Dists\ds22x34\CADData\CADsheets\be800.dgn

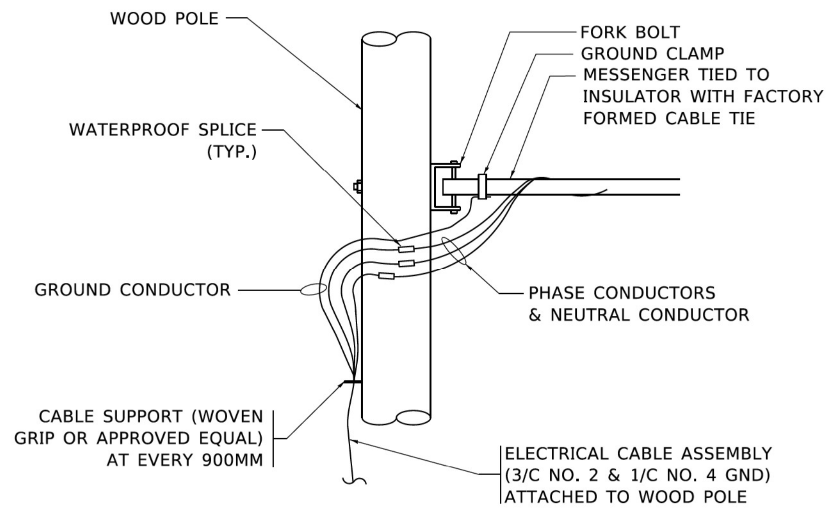
be800.dgn 4/19/2019 1:34:15 PM ETwmfootemj

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

	USER NAME = myersc	DESIGNED - UCM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS
		DRAWN - CAM	REVISED -		SCALE: N.T.S. | SHEET 32 OF 34 SHEETS | STA. | TO STA.
	PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -		
	PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -		

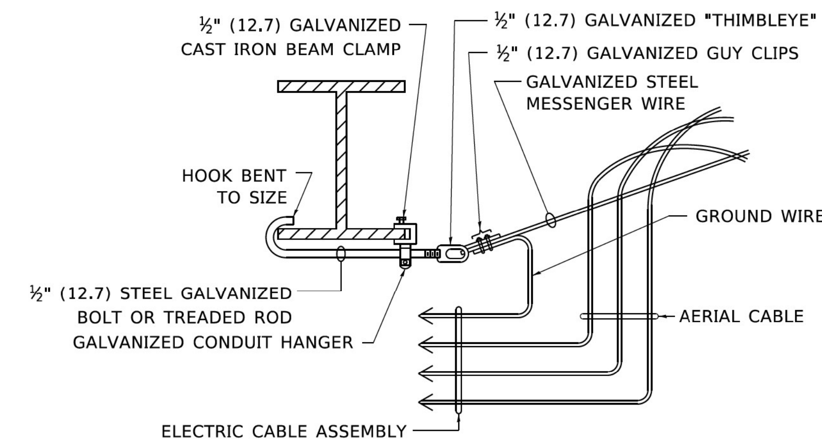
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	458
		CONTRACT NO. 62R27		
	ILLINOIS | FED. AID PROJECT			

MODEL: Untitled [Sheet]
FILE NAME: pw:/transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-LightingD162R27sht-LIGHT_32.dgn



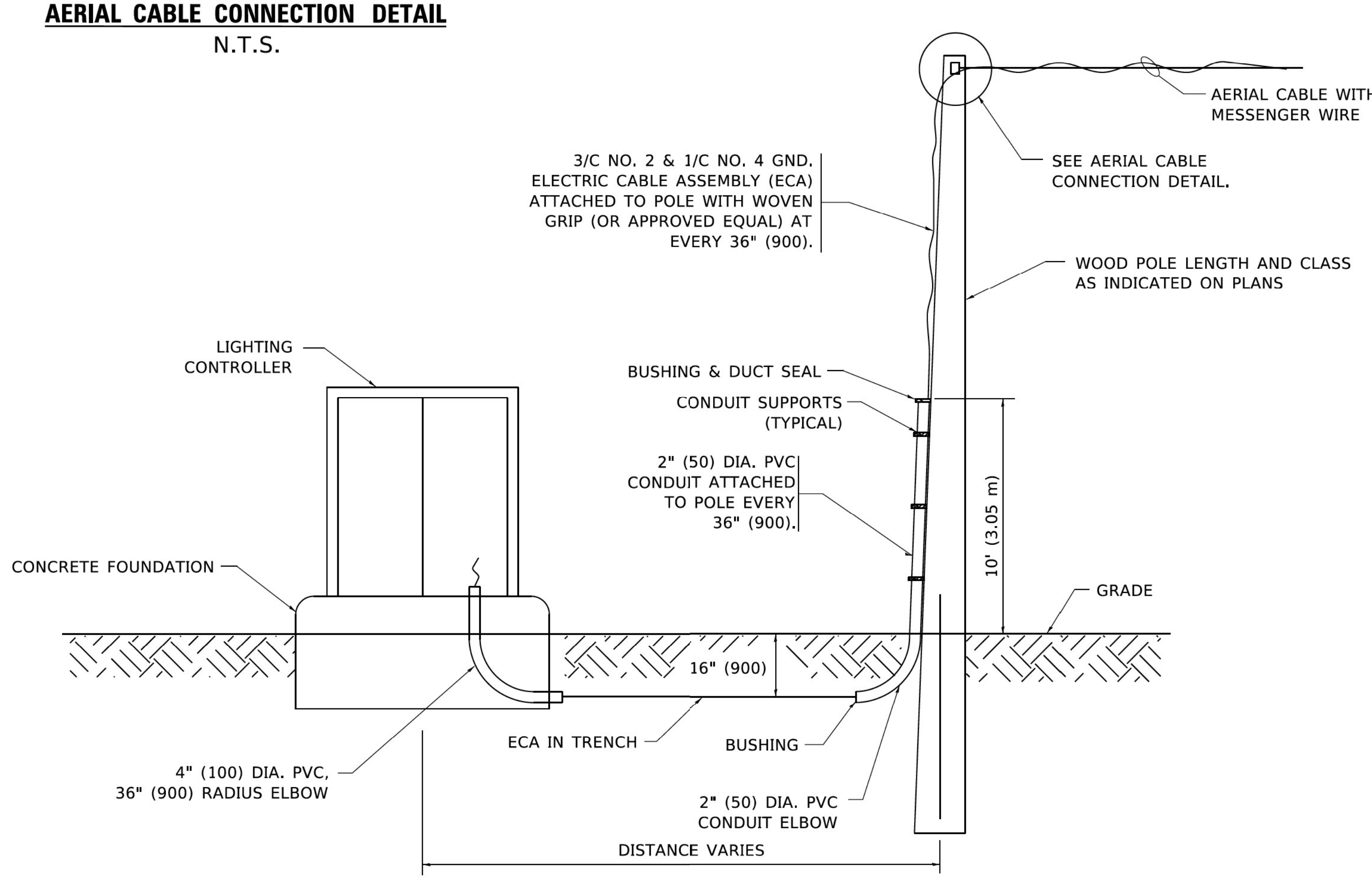
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

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.

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

TEMPORARY AERIAL CABLE INSTALLATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

BE-801 | CONTRACT NO. | ILLINOIS FED. AID PROJECT

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

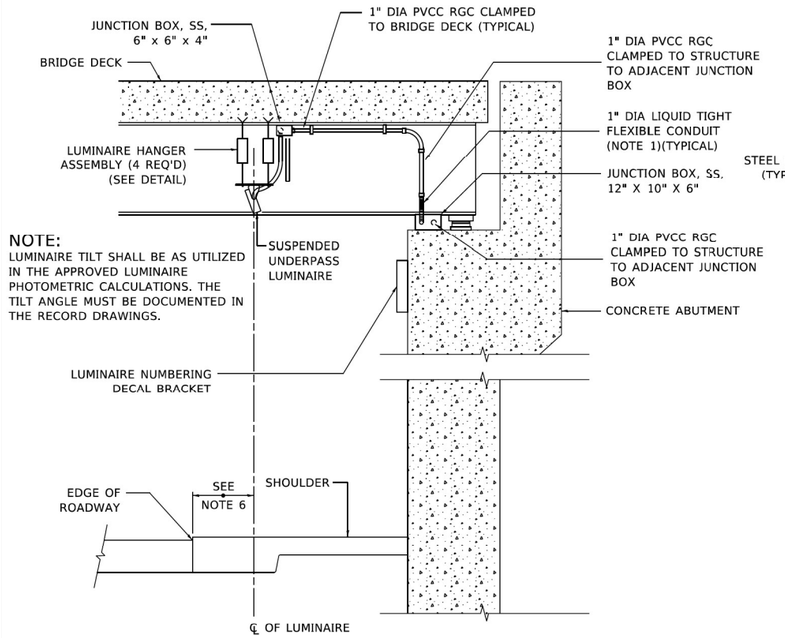
USER NAME = myersc	DESIGNED - UCM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -	
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

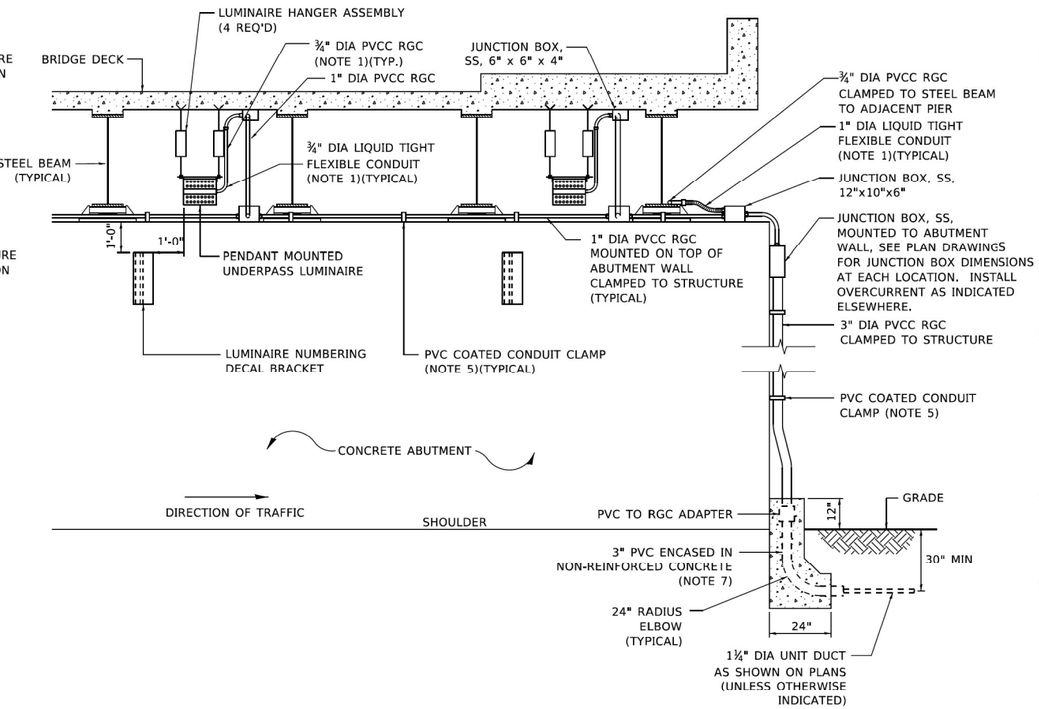
LIGHTING DETAILS

SCALE: N.T.S. | SHEET 33 OF 34 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	459

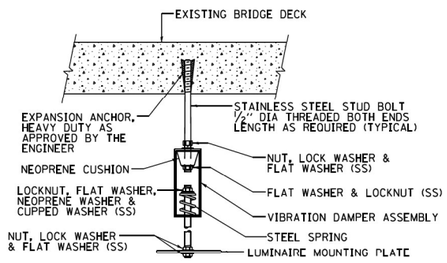
CONTRACT NO. 62R27 | ILLINOIS FED. AID PROJECT



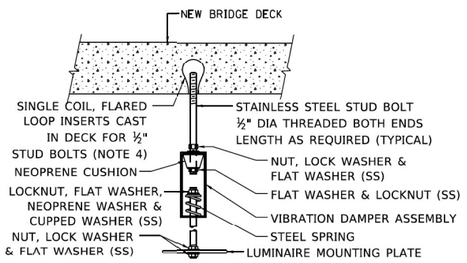


NOTES:

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.
5. 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).

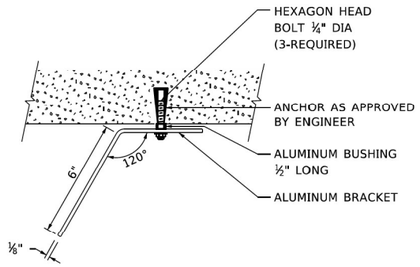


EXISTING BRIDGE DECK INSTALLATION

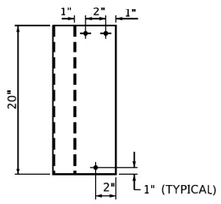


NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



TOP VIEW



ELEVATION

LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE

PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE

PVC COATED CONDUIT CLAMP
NOT TO SCALE

MODEL: Default
FILE NAME: pw:\\balrroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\DistrictE 1\Projects\BatSig22x34\CADData\CADsheets\be901.dgn

	USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN -	REVISED -	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.
	PLOT DATE = 1/15/2020	DATE -	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-901	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

MODEL: Untitled [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/21-Lighting/D162R27-SHT-LIGHT_34.dgn

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

USER NAME = myersc	DESIGNED - UCM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CAM	REVISED -	LIGHTING DETAILS
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -	SCALE: N.T.S. / SHEET 34 OF 34 SHEETS / STA. / TO STA.
PLOT DATE = 6/21/2023	DATE - 6/26/23	REVISED -	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	460
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

SYMBOLS FOR EXISTING CONDITIONS

- Ⓐ AUTOMATIC TRAFFIC RECORDER (ATR) STATION
- Ⓑ BLUETOOTH DETECTION ASSEMBLY
- Ⓒ CLOSED CIRCUIT TELEVISION CAMERA
- DMS DYNAMIC MESSAGE SIGN
- HEAVY DUTY HANDHOLE (ELECTRICAL)
- COMMUNICATIONS VAULT
- JUNCTION BOX ATTACHED TO STRUCTURE
- ○ ITS POLE AND FOUNDATION
- GROUND MOUNTED CABINET
- ⊠ POLE MOUNTED CABINET
- ELECTRIC UTILITY POLE
- POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- 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

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

LINESTYLES FOR EXISTING CONDITIONS

- E E ELECTRICAL CABLE IN CONDUIT*
- FO FO FIBER OPTIC CABLE IN CONDUIT*
- E E CONDUIT AND ELECTRICAL CABLE TO REMAIN
- FO FO CONDUIT AND FIBER OPTIC CABLE TO REMAIN

*CABLE TO BE REMOVED;
CONDUIT TO BE ABANDONED

LINESTYLES FOR PROPOSED WORK

- E E CONDUIT FOR FUTURE ELECTRICAL CABLE*
- FO FO MICRODUCT OR INNERDUCT FOR FUTURE FIBER OPTIC CABLE*
- CONDUIT SLEEVE*

*TYPE AND SIZE AS INDICATED ON PLANS

NON-ITS ELEMENTS LEGEND

- T *EXISTING UNDERGROUND TELEPHONE*
- G *EXISTING UNDERGROUND GAS*
- CTV *EXISTING UNDERGROUND CABLE TV*
- W *EXISTING UNDERGROUND WATER*
- O *EXISTING UNDERGROUND OIL*
- AC *EXISTING ACCESS CONTROL AND ROW FENCE*
- A *EXISTING AERIAL LINE*
- *EXISTING GUARDRAIL*
- *EXISTING STORM SEWER*
- *EXISTING LIGHTING*
- *EXISTING SIGNAGE*
- AC *PROPOSED ACCESS CONTROL AND ROW FENCE*
- *PROPOSED GUARDRAIL*
- *PROPOSED STORM SEWER*
- *PROPOSED UNDERDRAIN*
- *PROPOSED DRAINAGE*
- *PROPOSED DRAINAGE FLOW*
- *PROPOSED LIGHTING*
- *PROPOSED SIGNAGE*

MODEL: ITS Legend
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH4011/401180022/02-TranSystems/CAD/62R27/Sheet/r23-ITS TS/D162R27_ITS General.dgn

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

USER NAME = amkluver		DESIGNED - DJM		REVISED -	
		DRAWN - DJM		REVISED -	
PLOT SCALE = 0.16666633 ' / In.		CHECKED - REL		REVISED -	
PLOT DATE = 6/23/2023		DATE - 6/26/23		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS LEGEND & ABBREVIATIONS

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	461
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID 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.

2. 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 773-287-7672.

3. 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.

4. 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.

5. 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.

6. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.

7. 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.

8. 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.

9. CONDUIT CROSSING OVER/UNDER OTHER UTILITIES OR DRAINAGE SHALL MAINTAIN A SEPERATION OF AT LEAST 18 INCHES OR AS SPECIFIED BY OWNING UTILITY.

10. 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..

11. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 30 INCHES MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES, DRAINAGE PIPES, 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.

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

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.

16. 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.

18. 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.

19. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

20. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.

21. 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*
20200200	ROCK EXCAVATION	CU YD	200	-	-
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	200	-	-
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	8	-	-
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	-	-
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	-	-
81024600	CONDUIT ENCASED, CONCRETE, 6" DIA., PVC 1 WIDE X 1 HIGH	FOOT	50	-	-
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37	-	-
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,270	1,065	205
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	12,775	-	-
81400200	HEAVY-DUTY HANDHOLE	EACH	20	-	-
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	210	-	-
84200804	REMOVAL OF POLE FOUNDATION	EACH	7	-	-
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	15	-	-
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50	-	-
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	23,640	-	-
89502380	REMOVE EXISTING HANDHOLE	EACH	26	-	-
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	-	-
X0326944	ATMS INTEGRATION	L SUM	1	-	-
X0327186	PORTABLE VIDEO TOWER STATIONS	CAL MO	1,411	-	-
X7010238	CHANGEABLE MESSAGE SIGN (SPECIAL)	CAL MO	157	-	-
X8710318	FIBER OPTIC UTILITY MARKER	EACH	63	42	21
X8710402	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	1,302	-	-
X8780200	CONCRETE FOUNDATION, SURVEILLANCE CABINET MODEL 334	EACH	1	-	-
X8950425	REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT	L SUM	1	-	-
X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	16	-	-
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	25,376	-	-
Z0033052	COMMUNICATIONS VAULT	EACH	21	14	7
	UNDERGROUND CONDUIT, MULTI-DUCT, 7-18MM MICRODUCTS	FOOT	33,641	22,016	11,625
	CONDUIT ATTACHED TO STRUCTURE, RIGID NONMETALLIC, 4" DIA.	FOOT	600	400	200
	SMART TRAFFIC MONITORING SYSTEM	CAL MO	36	-	-

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

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

USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 7/26/2023	DATE - 7/28/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS GENERAL NOTES & BILL OF MATERIALS

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	462
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

SITE REMOVALS SCHEDULE

SITE TYPE	STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
CCTV CAMERA	411+64	80' RT	84200804, X8950425	464
BLUETOOTH	423+87	91' RT	84200804, X8950425	465
BLUETOOTH	450+49	92' LT	84200804, X8950425	467
CCTV CAMERA	465+85	95' RT	84200804, X8950425	469
BLUETOOTH	476+69	82' RT	84200804, X8950425	469
CCTV CAMERA	498+35	89' RT	84200804, X8950425	471
DMS*	500+41	94' RT	89502385, X8950425	471
BLUETOOTH	503+19	91' LT	84200804, X8950425	472

*STATION/OFFSET OF THE CONTROLLER CABINET IS LISTED

PROPOSED SITE SCHEDULE

ITEM	STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
30" DIA. CONCRETE FOUNDATION	411+00	83' RT	87800400	474
30" DIA. CONCRETE FOUNDATION	RAMP D, 105+91	43' RT	87800400	476
ELECTRIC SERVICE	RAMP C, 201+25	115' RT	80400100, 80400200	477
30" DIA. CONCRETE FOUNDATION	451+25	71' LT	87800400	477
30" DIA. CONCRETE FOUNDATION	478+00	85' RT	87800400	480
30" DIA. CONCRETE FOUNDATION	498+50	87' RT	87800400	481
334 CABINET FOUNDATION	500+00	90' RT	X8780200	481

MODEL: ITS Schedules
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH4011/40118000202-TranSystems/CAD/62R27/Sheet/r23-ITS TS/D162R27_ITS General.dgn

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

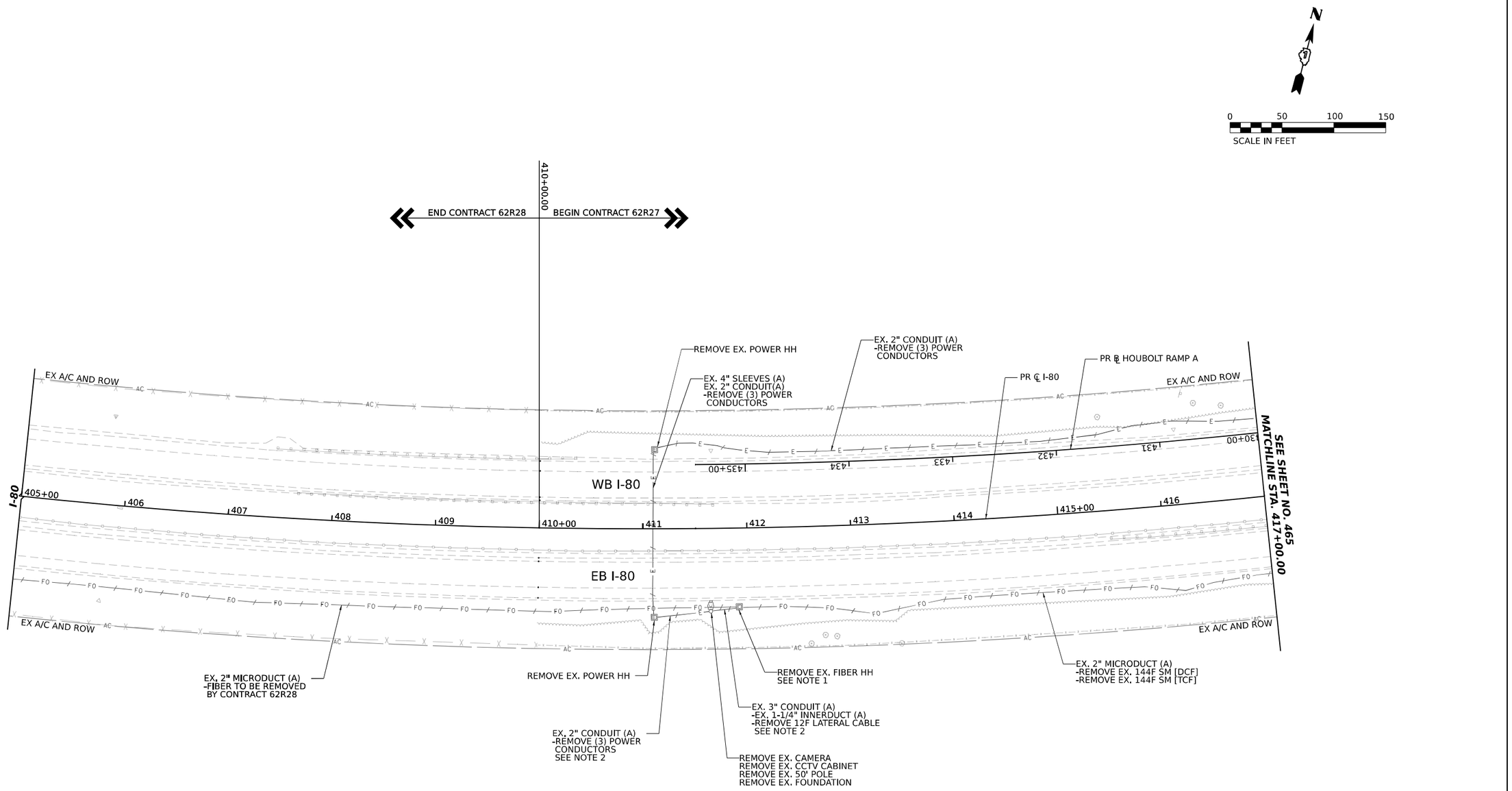
USER NAME = amkluver	DESIGNED - VLJ	REVISED -	
	DRAWN - AMK	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - JMG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS SCHEDULES

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	463
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		

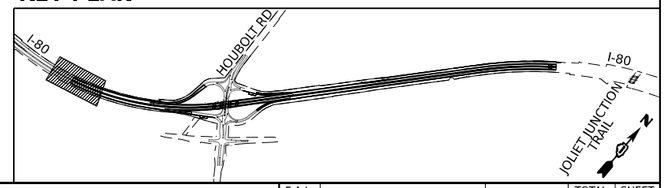


NOTES

1. FIBER TO THE WEST OF THIS HANDHOLE TO BE REMOVED BY CONTRACT 62R28.
   FIBER TO THE EAST OF THIS HANDHOLE TO BE REMOVED BY CONTRACT 62R27.

2. REMOVAL OF THE CABLES IS INCLUDED AS PART OF THE CCTV SITE REMOVAL (X8950425).

KEY PLAN



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

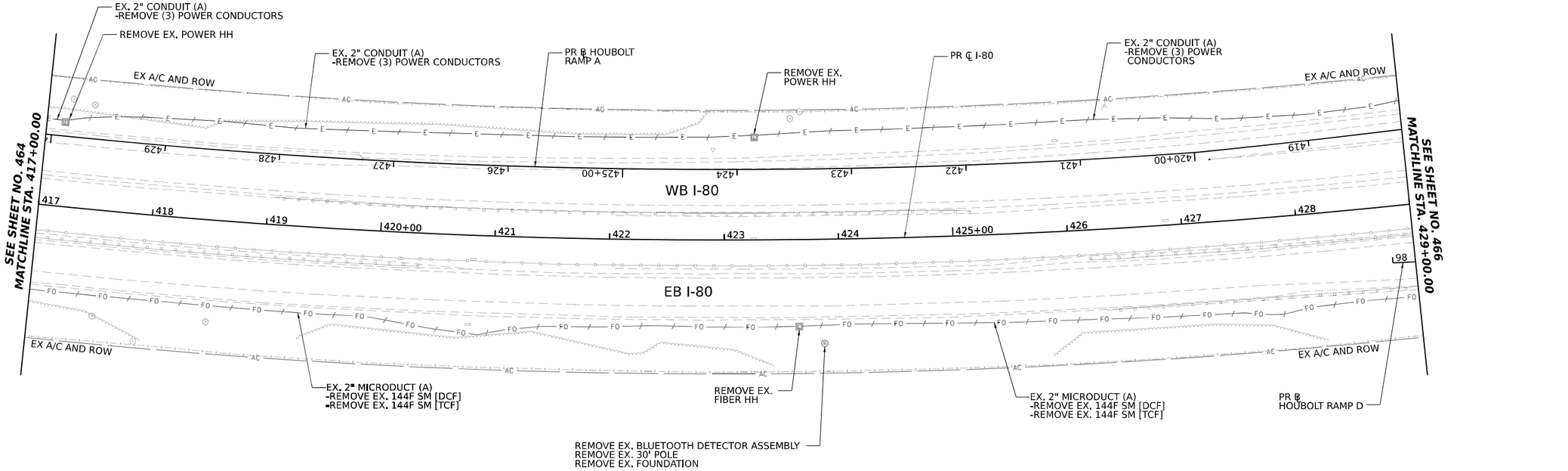
USER NAME = amkluver	DESIGNED - DJM	REVISED -
	DRAWN - DJM	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

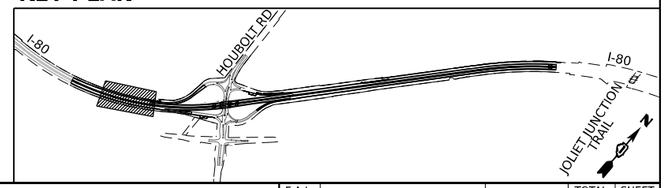
ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 410+00 | TO STA. 417+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	464
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



KEY PLAN



MODEL: BL_PR_I80 • Plan 2 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TSD162R27_ITS Removal Plans

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

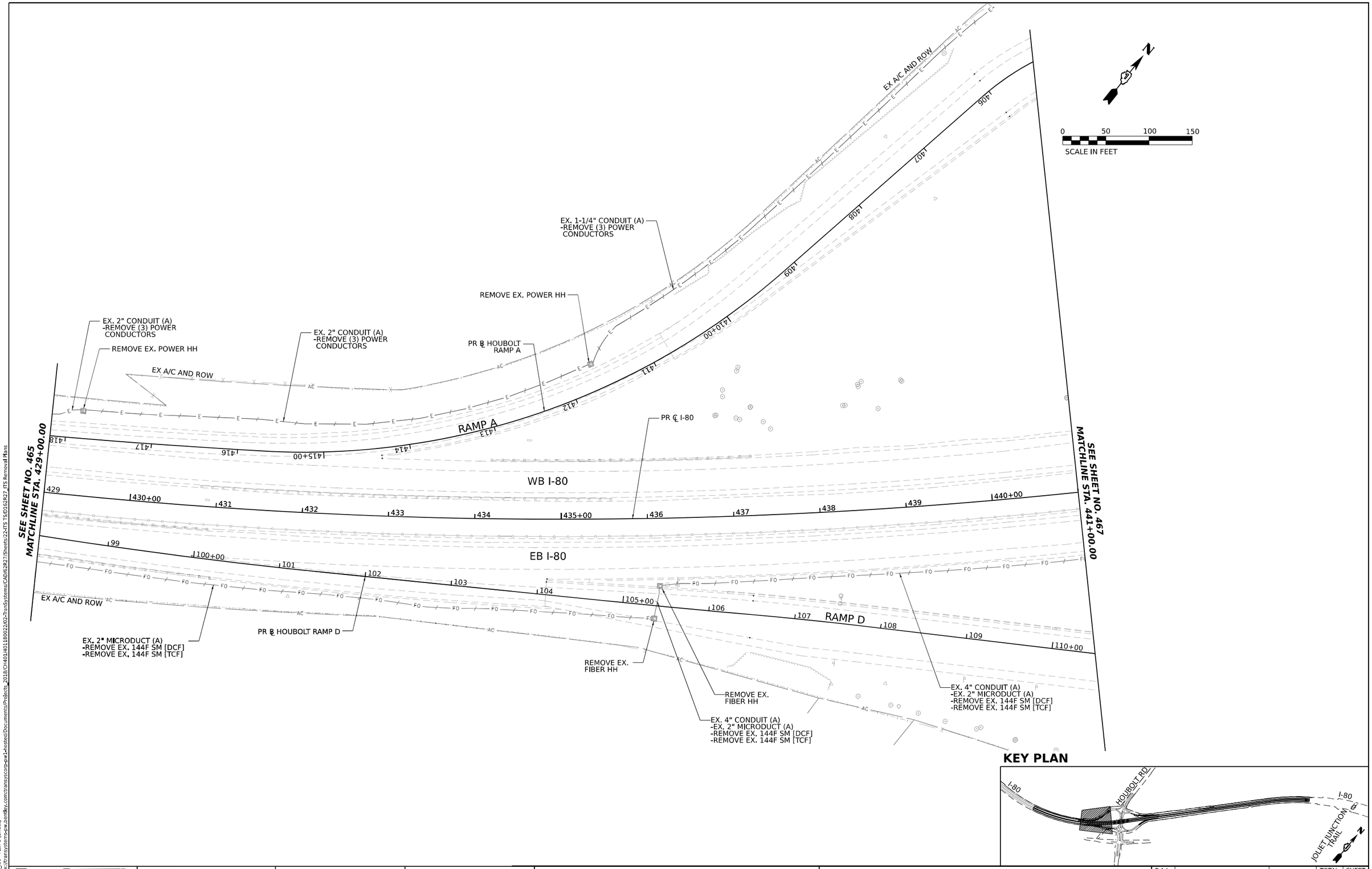
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 417+00.00 | TO STA. 429+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	465
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



KEY PLAN

MODEL: BL_PR_I80 - Plan 3 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystcorp-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Removal Plans

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

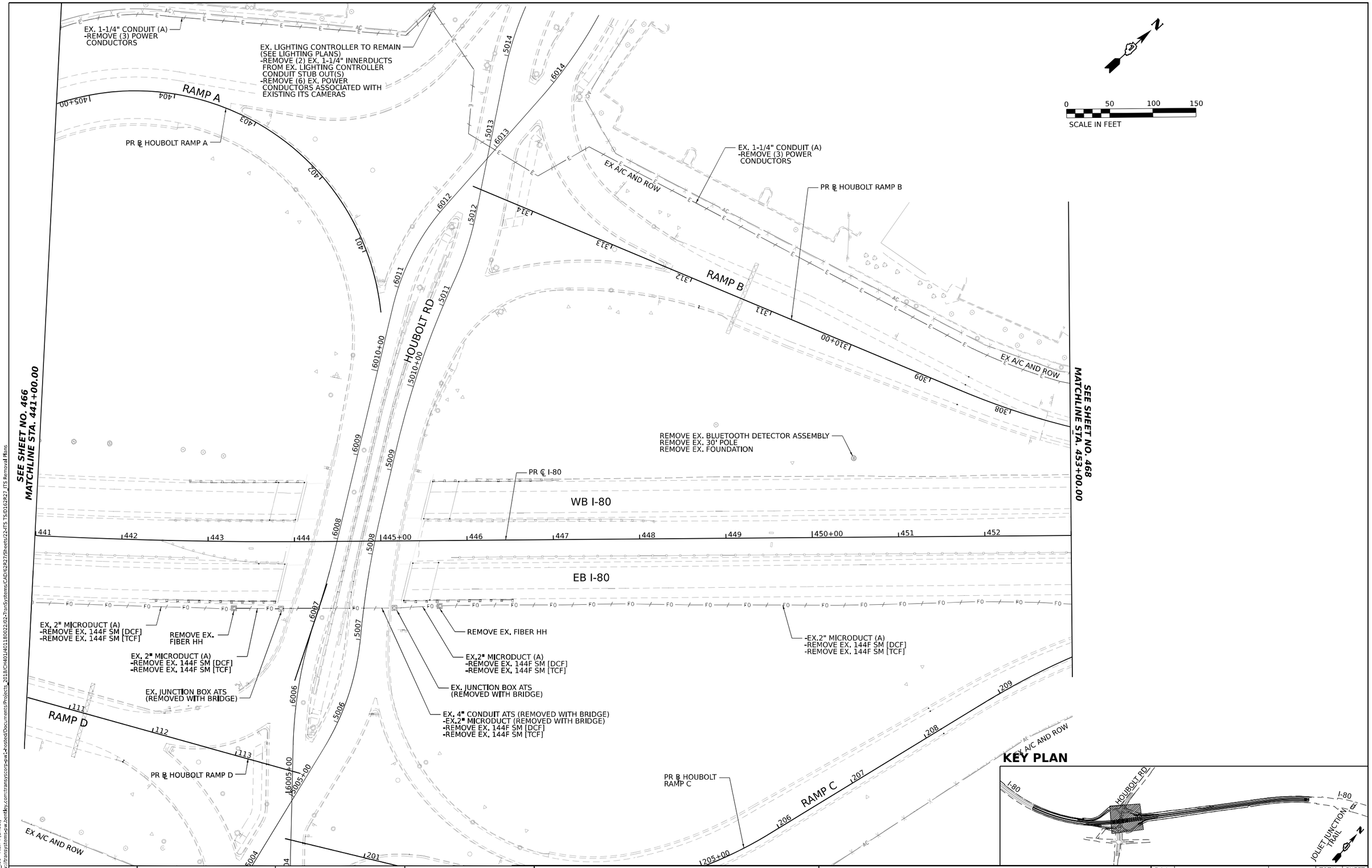
USER NAME = amkluver		DESIGNED -	DJM	REVISED -	
		DRAWN -	DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.		CHECKED -	REL	REVISED -	
PLOT DATE = 6/23/2023		DATE -	6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 429+00.00 | TO STA. 441+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	466
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



MODEL: BL_PR_I80 - Plan 4 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS\D162R27_ITS Removal Plans

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -
		DRAWN - DJM	REVISED -
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 441+00.00 | TO STA. 453+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	467
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

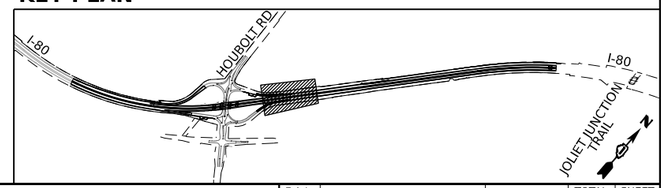
0 50 100 150
SCALE IN FEET

EX. 1-1/4" CONDUIT (A)
-REMOVE (3) POWER CONDUCTORS
PR ℄ HOUBOLT RAMP B
REMOVE EX. POWER HH
EX A/C AND ROW
PR ℄ I-80
EX. 2" CONDUIT (A)
-REMOVE (3) POWER
CONDUCTORS
EX. 2" CONDUIT (A)
-REMOVE (3) POWER
CONDUCTORS
REMOVE EX. POWER HH
RAMP B
WB I-80
EB I-80
RAMP C
REMOVE EX.
FIBER HH
EX. 4" CONDUIT (A)
-EX.2" MICRODUCT (A)
-REMOVE EX. 144F SM [DCF]
-REMOVE EX. 144F SM [TCF]
PR ℄ HOUBOLT RAMP C
-EX.2" MICRODUCT (A)
-REMOVE EX. 144F SM [DCF]
-REMOVE EX. 144F SM [TCF]
EX A/C AND ROW
REMOVE EX.
FIBER HH
EX.2" MICRODUCT (A)
-REMOVE EX. 144F SM [DCF]
-REMOVE EX. 144F SM [TCF]

SEE SHEET NO. 467
MATCHLINE STA. 453+00.00

SEE SHEET NO. 469
MATCHLINE STA. 465+00.00

KEY PLAN



MODEL: BL_PR_I80 - Plan 5 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS\D162R27_ITS Removal Plans

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

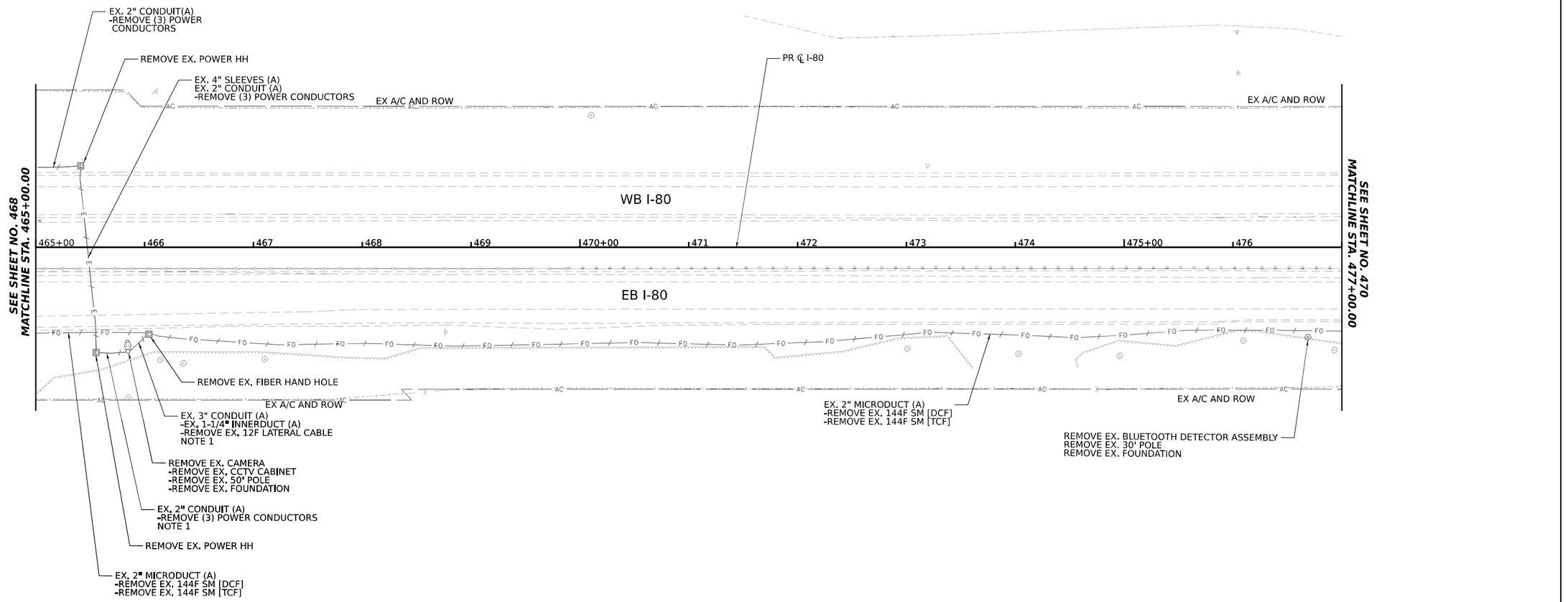
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 453+00.00 | TO STA. 465+00.00

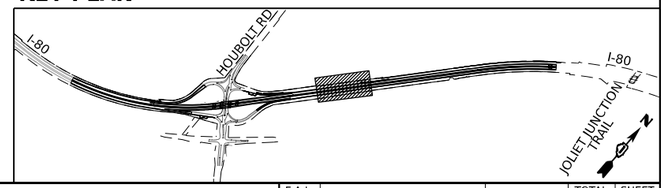
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	468
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



NOTES

1. REMOVAL OF THE CABLES IS INCLUDED AS PART OF THE CCTV SITE REMOVAL (X8950425).

KEY PLAN



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

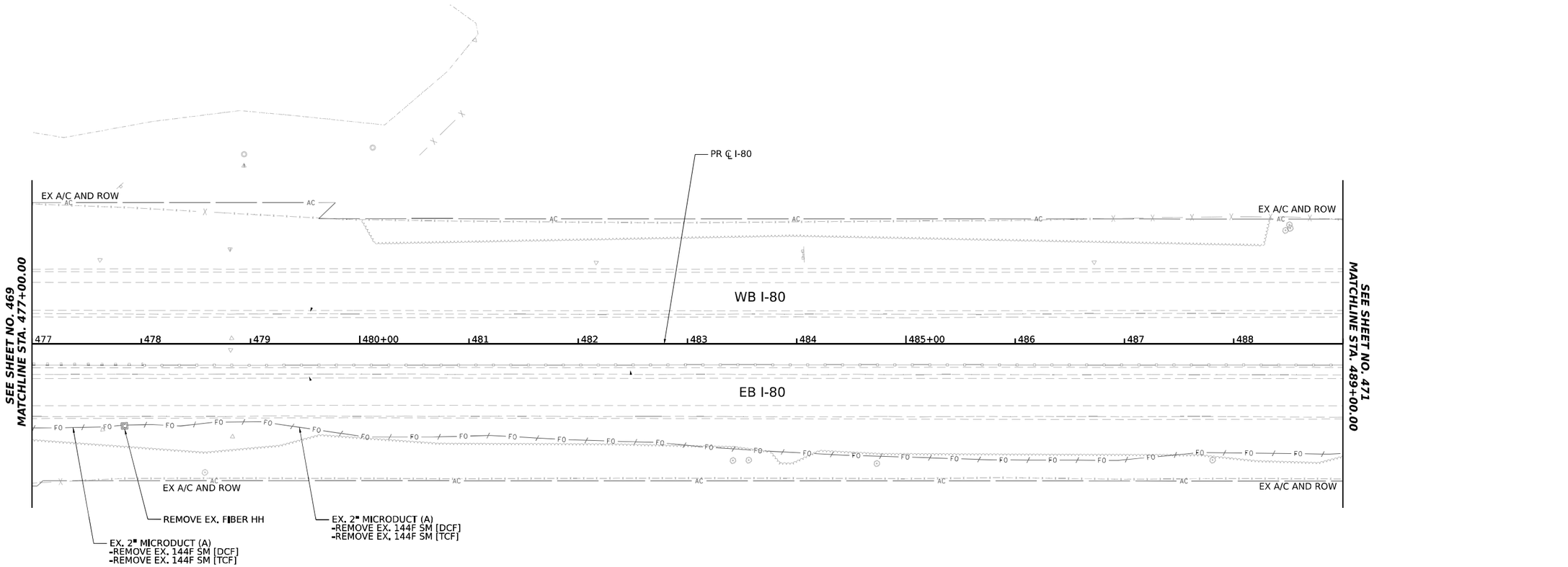
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

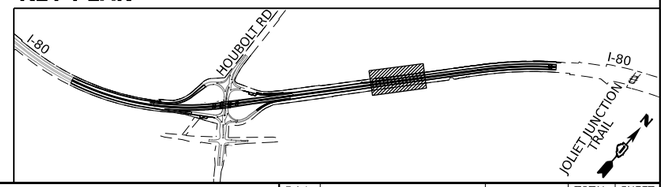
ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 465+00.00 | TO STA. 477+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	469
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



KEY PLAN



MODEL: BL_PR_I80 - Plan 7 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw2-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Removal Plans

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

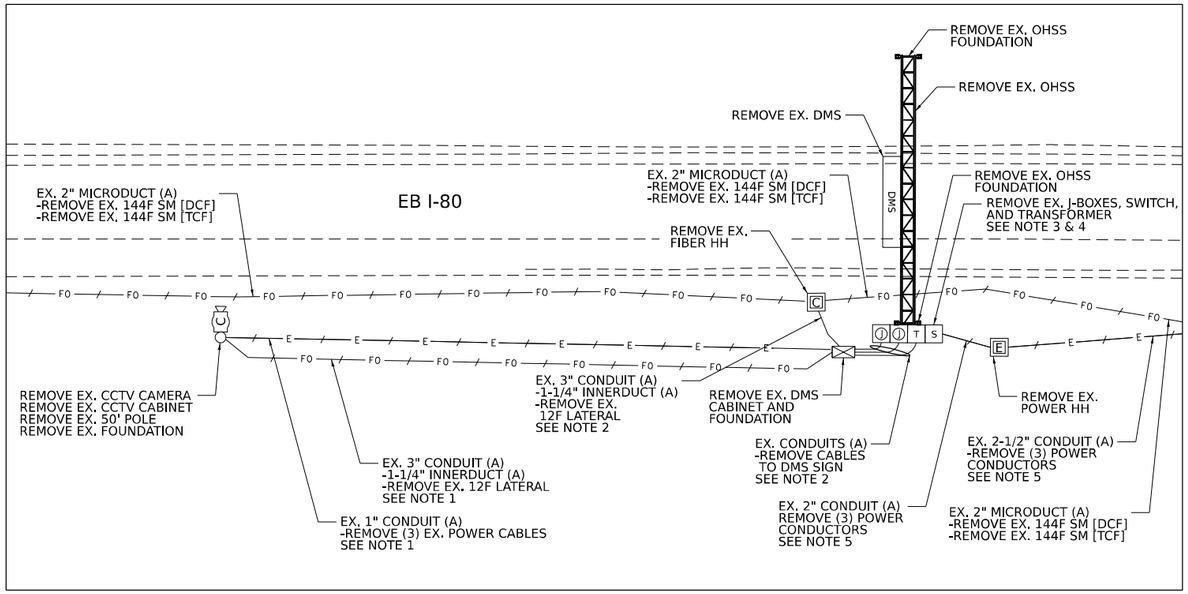
USER NAME = amkluver		DESIGNED - DJM		REVISED -	
		DRAWN - DJM		REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - REL		REVISED -	
PLOT DATE = 6/23/2023		DATE - 6/26/23		REVISED -	

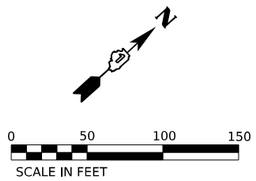
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

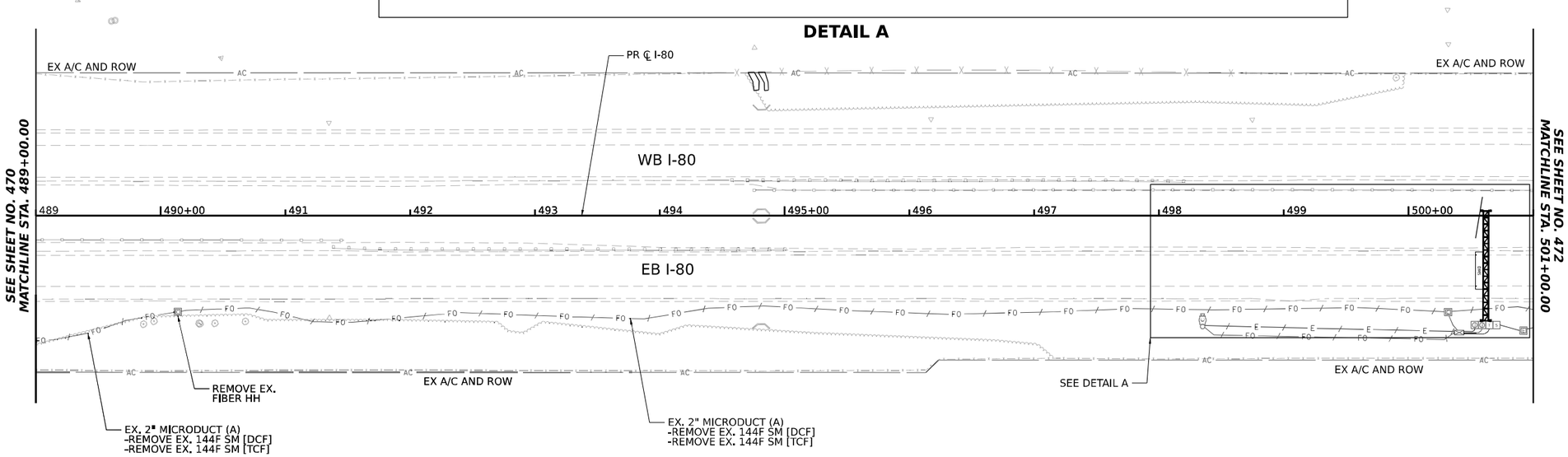
SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 477+00.00 | TO STA. 489+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	470
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		





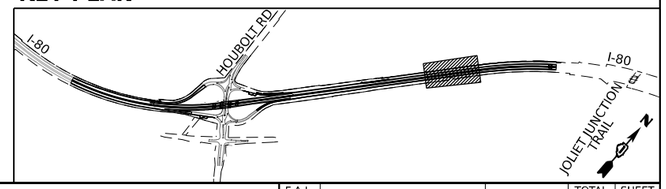
DETAIL A



NOTES

1. REMOVAL OF THE CABLES IS INCLUDED AS PART OF THE CCTV SITE REMOVAL (PAY ITEM X8950425).
2. REMOVAL OF THE CABLES IS INCLUDED AS PART OF THE DMS SITE REMOVAL (PAY ITEM X8950425).
3. REMOVAL OF THE JUNCTION BOXES TO BE INCLUDED IN THE COST OF THE OVERHEAD SIGN STRUCTURE REMOVAL.
4. REMOVAL OF THE SWITCH AND TRANSFORMER TO BE INCLUDED AS PART OF THE DMS SITE REMOVAL (PAY ITEM X8950425).
5. COORDINATE REMOVAL OF POWER CONDUCTORS WITH CONTRACT 62R89. THE ELECTRIC SERVICE AND METER PEDESTAL ARE LOCATED WITHIN THE 62R89 CONTRACT LIMITS.

KEY PLAN



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

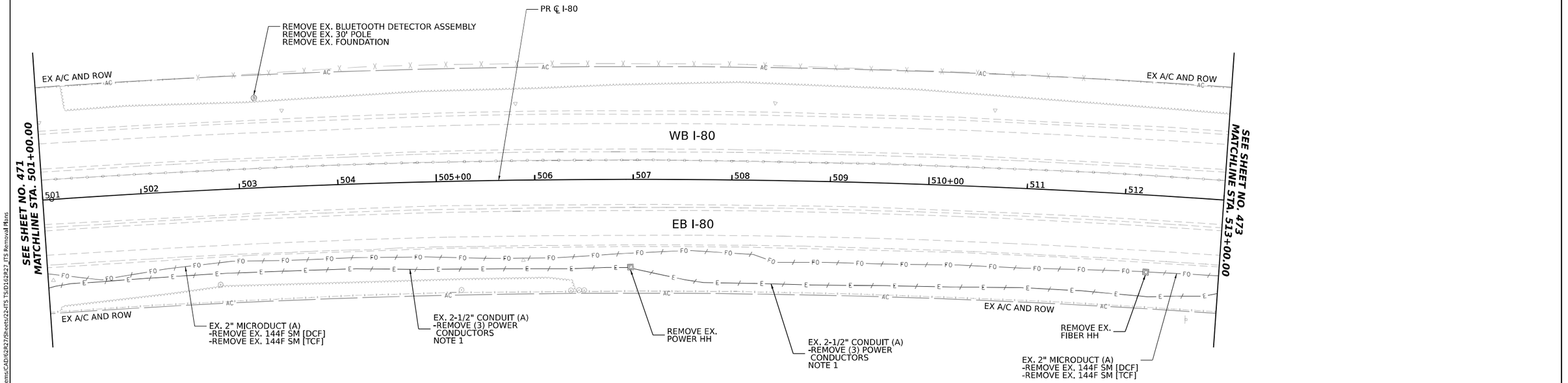
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 489+00.00 | TO STA. 501+00.00

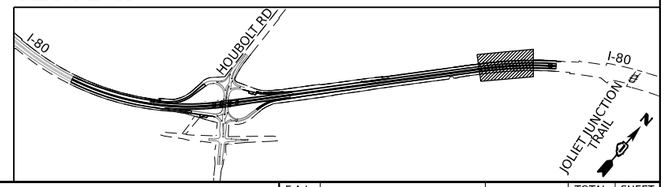
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	471
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



NOTES

1. COORDINATE REMOVAL OF POWER CONDUCTORS WITH CONTRACT 62R89. THE ELECTRIC SERVICE AND METER PEDESTAL ARE LOCATED WITHIN THE 62R89 CONTRACT LIMITS.

KEY PLAN



MODEL: BL_PR_I80 - Plan 9 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw2-Hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TSD162R27_ITS Removal Plans

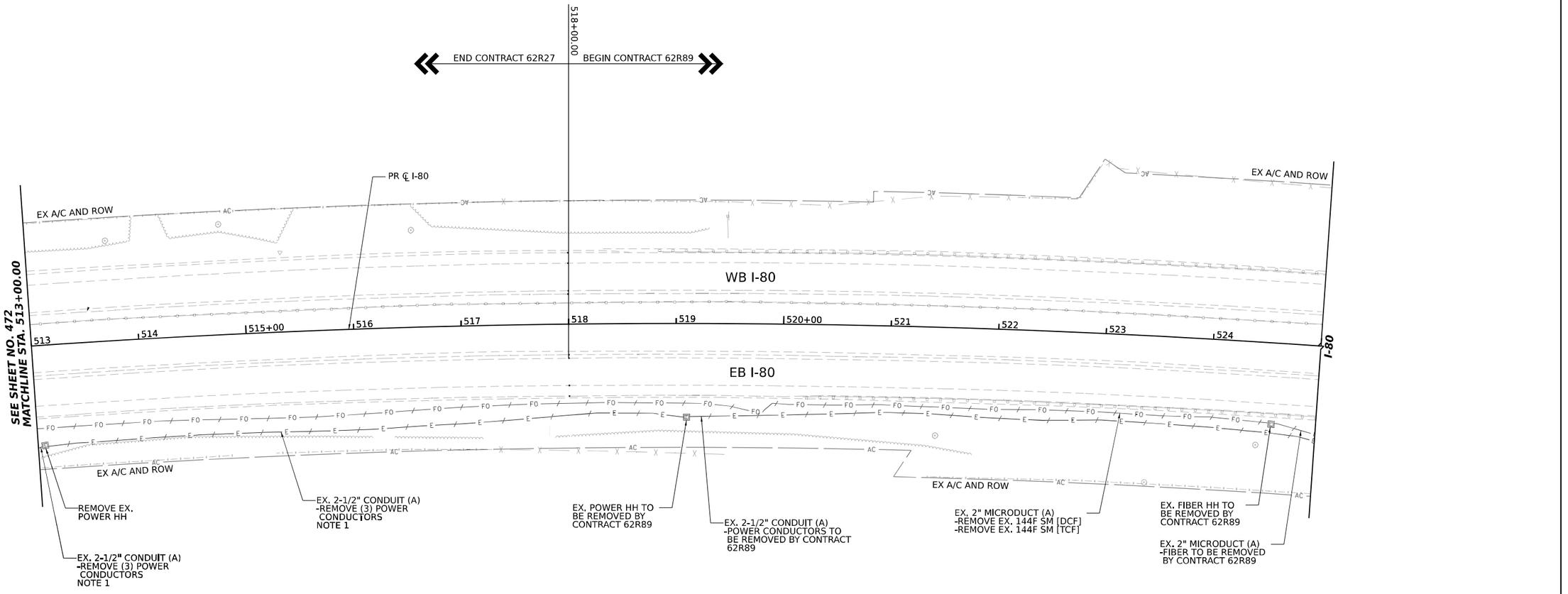
TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -	
		DRAWN - DJM	REVISED -	
	PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

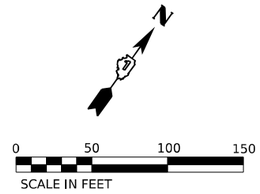
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 501+00.00 | TO STA. 513+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	472
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

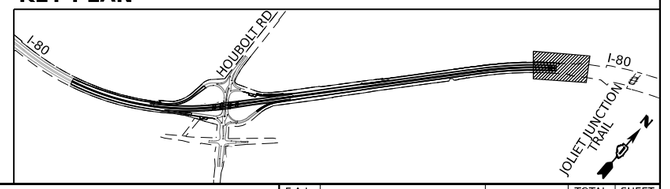




NOTES

1. COORDINATE REMOVAL OF POWER CONDUCTORS WITH CONTRACT 62R89. THE ELECTRIC SERVICE AND METER PEDESTAL ARE LOCATED WITHIN THE 62R89 CONTRACT LIMITS.

KEY PLAN



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

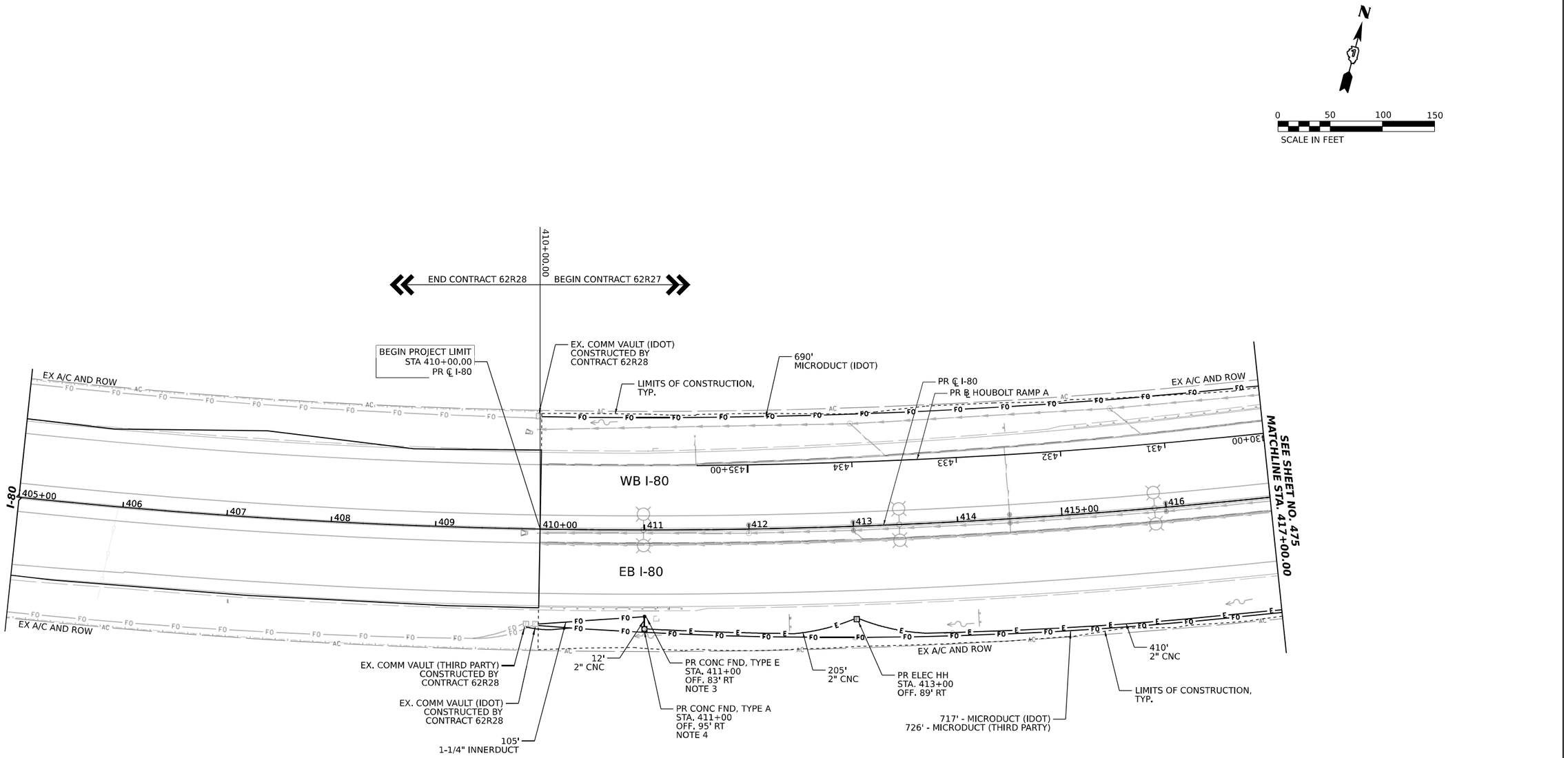
USER NAME = amkluver	DESIGNED - DJM	REVISED -		
	DRAWN - DJM	REVISED -		
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -		
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 513+00.00 | TO STA. 518+00.00

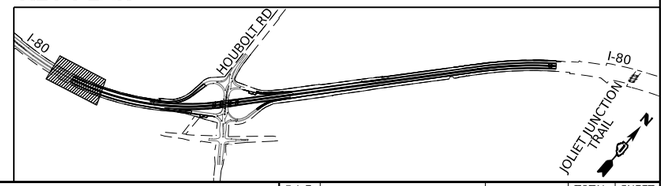
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	473
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 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.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.

KEY PLAN



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

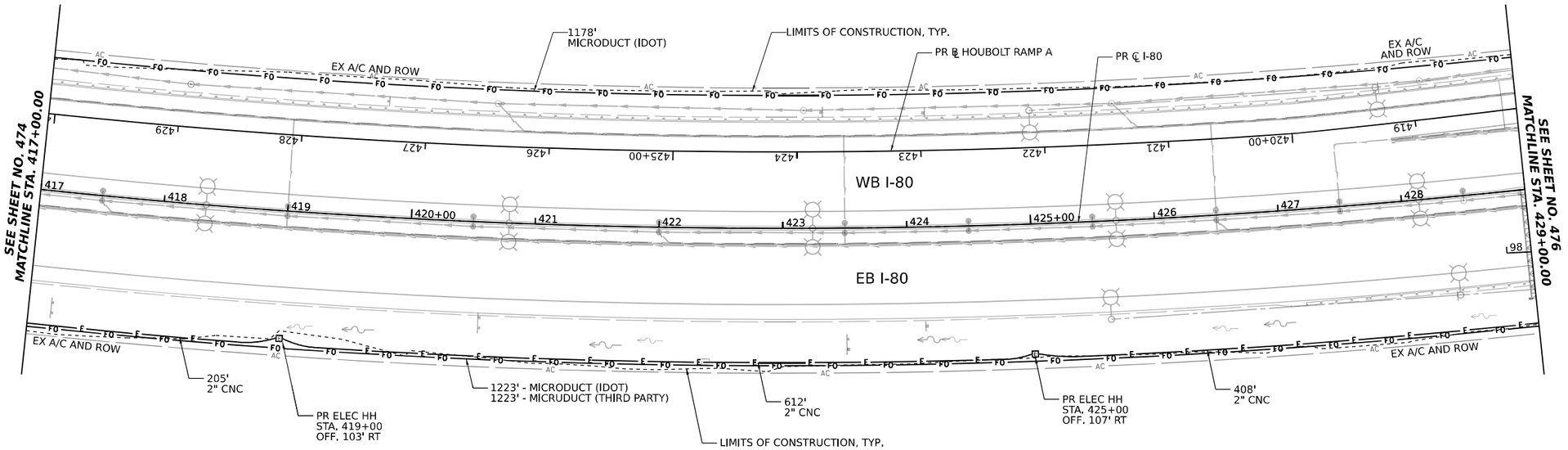
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

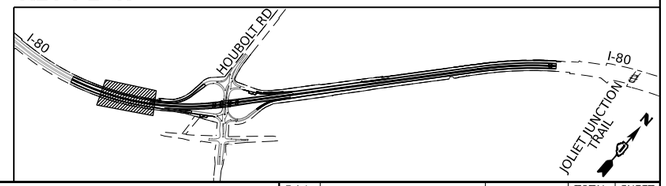
ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' | SHEET 1 OF 11 SHEETS | STA. 411+50.00 | TO STA. 417+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	474
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



KEY PLAN



MODEL: BL_PR_I80 - Plan 2 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystemscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Plans

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

USER NAME = amkluver		DESIGNED - DJM		REVISED -	
		DRAWN - DJM		REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - REL		REVISED -	
PLOT DATE = 6/23/2023		DATE - 11/11/22		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' | SHEET 2 OF 11 SHEETS | STA. 417+00.00 | TO STA. 429+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	475
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

PROJECT LIMITS
STA 406+00.00
PR ℄ HOUBOLT RAMP A

EX A/C AND ROW

SEE SHEET NO. 484
MATCHLINE RAMP A

489'
1-1/4" INNERDUCT

552'
(2) 2" CNC

22'
MICRODUCT (IDOT)

PR COMM VAULT (IDOT)
STA. 409+80
OFF. 58' RT

PR ELEC HH
STA. 410+50
OFF. 55' RT

LIMITS OF CONSTRUCTION, TYP.

PR ℄ HOUBOLT RAMP A

796'
MICRODUCT (IDOT)

PR ELEC HH
STA. 430+93
OFF. 122' LT

10'
(2) 6" PVC CONDUIT
ENCASED IN CONCRETE
-(2) 4" GSC
-(2) 2" CNC
NOTE 6

542'
(2) 2" CNC

70'
4" GSC
-MICRODUCT (IDOT)

NOTE 5, TYP.

405'
MICRODUCT (IDOT)

RAMP A

PR ℄ I-80

WB I-80

SEE SHEET NO. 475
MATCHLINE STA. 429+00.00

SEE SHEET NO. 477
MATCHLINE STA. 441+00.00

217'
(2) 4" GSC
(2) 2" CNC

PR I-80 EB PGL

EB I-80

PR COMM VAULT (IDOT)
STA. 437+12
OFF. 70' RT

PR COMM VAULT (THIRD PARTY)
STA. 437+22
OFF. 72' RT

394' - MICRODUCT (IDOT)
383' - MICRODUCT (THIRD PARTY)

RAMP D

EX A/C AND ROW

193'
2" CNC

PR ELEC HH
STA. 430+89
OFF. 95' RT

10'
(2) 6" PVC CONDUIT
ENCASED IN CONCRETE
-(2) 4" GSC
-(2) 2" CNC

438'
2" CNC

822' - MICRODUCT (IDOT)
832' - MICRODUCT (THIRD PARTY)

LIMITS OF CONSTRUCTION, TYP.

PR ℄ HOUBOLT RAMP D

PR ELEC HH
STA. 435+18
OFF. 121' RT

113'
2" CNC

PR CONC FND, TYPE A
STA. 105+61
OFF. 42' RT
NOTE 4

30'
2" CNC

PR CONC FND, TYPE E
RAMP A STA. 105+91
OFF. 43' RT
NOTE 4

49'
1-1/4" INNERDUCT

PR COMM VAULT (IDOT)
STA. 106+40
OFF. 45' RT

PR COMM VAULT (THIRD PARTY)
STA. 106+50
OFF. 47' RT

90'
(2) 4" GSC
-MICRODUCT (IDOT)
-MICRUDUCT (THIRD PARTY)

PROJECT LIMITS
STA 106+50.00
PR ℄ HOUBOLT RAMP D

437'
MICRODUCT (THIRD PARTY)

EX ROW

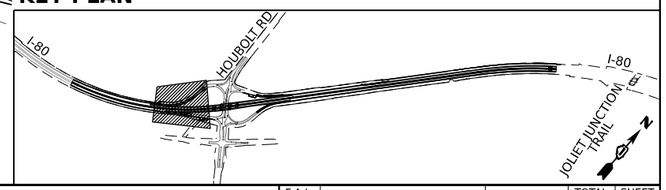
EX ROW

0 50 100 150
SCALE IN FEET

NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 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.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
6. COORDINATE INSTALLATION WITH GUARDRAIL. CENTER THE PVC CONDUIT ENCASED IN CONCRETE ON THE PROPOSED GUARDRAIL AND IN BETWEEN POSTS.

KEY PLAN



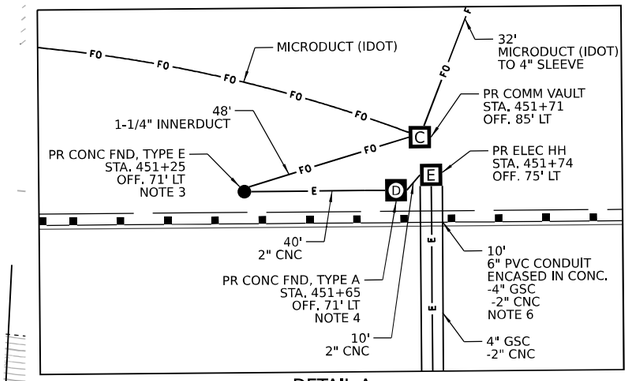
MODEL: BL_PL_80 • Plan 3 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-4-hosted/Documents/Projects_2018/CI401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS-D162R27_ITS Plans

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - DJM	REVISED -	
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -	

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' | SHEET 3 OF 11 SHEETS | STA. 429+00.00 | TO STA. 441+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	476
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



DETAIL A

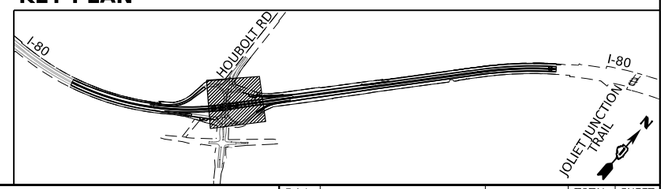
0 50 100 150

SCALE IN FEET

NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 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.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
6. COORDINATE INSTALLATION WITH GUARDRAIL. CENTER THE PVC CONDUIT ENCASED IN CONCRETE ON THE PROPOSED GUARDRAIL AND IN BETWEEN POSTS.

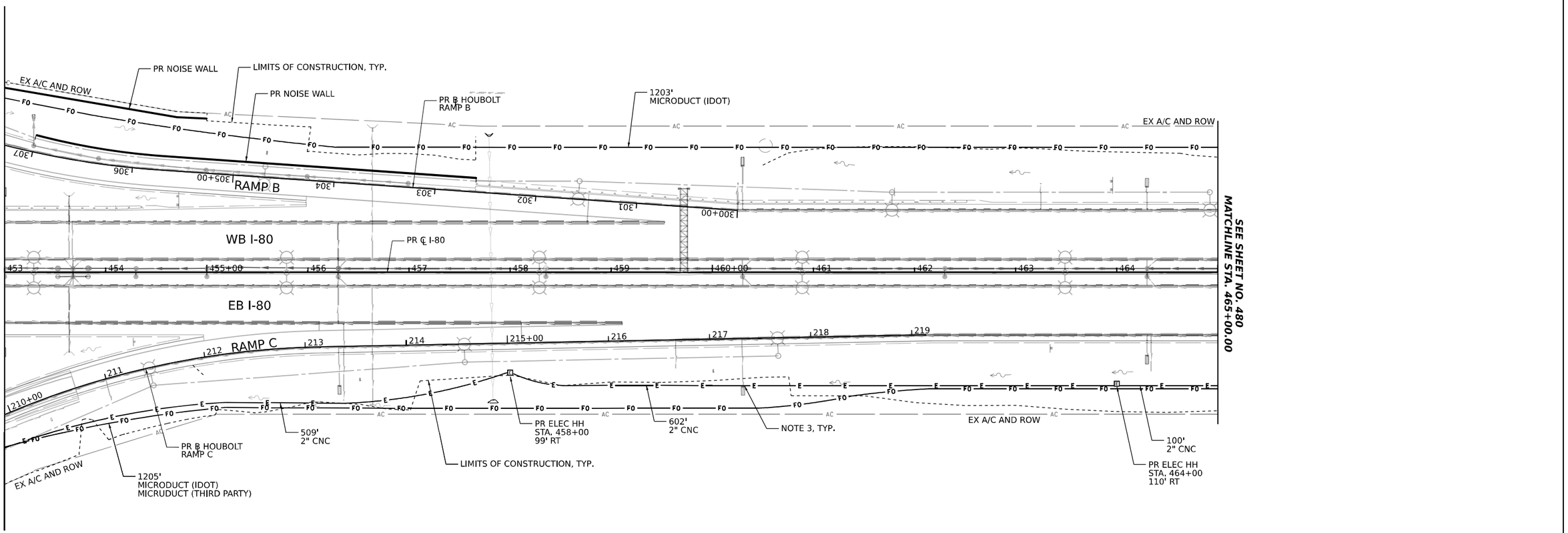
KEY PLAN



MODEL: BL_PL_80 • Plan 4 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CI401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Plans

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE PLANS
		DRAWN - DJM	REVISED -		
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -		
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		SCALE: 1"=50' SHEET 4 OF 11 SHEETS STA. 441+00.00 TO STA. 453+00.00

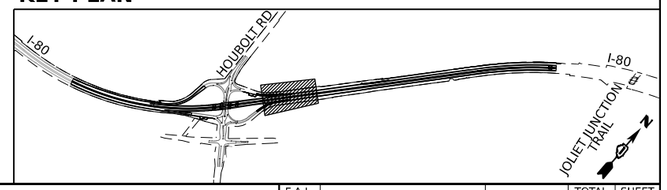
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	477
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN



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

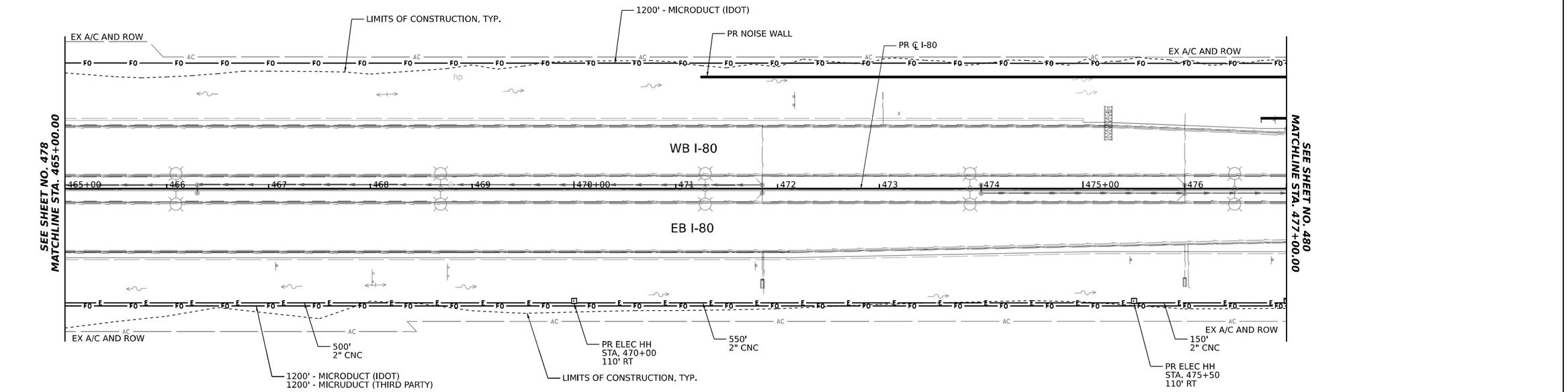
USER NAME = amkluver		DESIGNED - DJM		REVISED -
		DRAWN - DJM		REVISED -
PLOT SCALE = 0.16666633 ' / In.		CHECKED - REL		REVISED -
PLOT DATE = 6/23/2023		DATE - 11/11/22		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' | SHEET 5 OF 11 SHEETS | STA. 453+00.00 | TO STA. 465+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	478
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



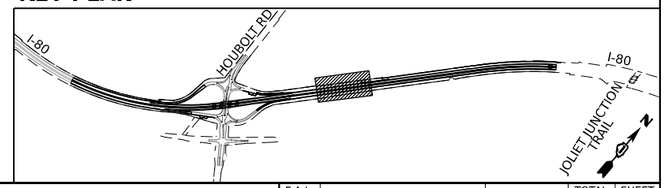
0 50 100 150

SCALE IN FEET

NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.

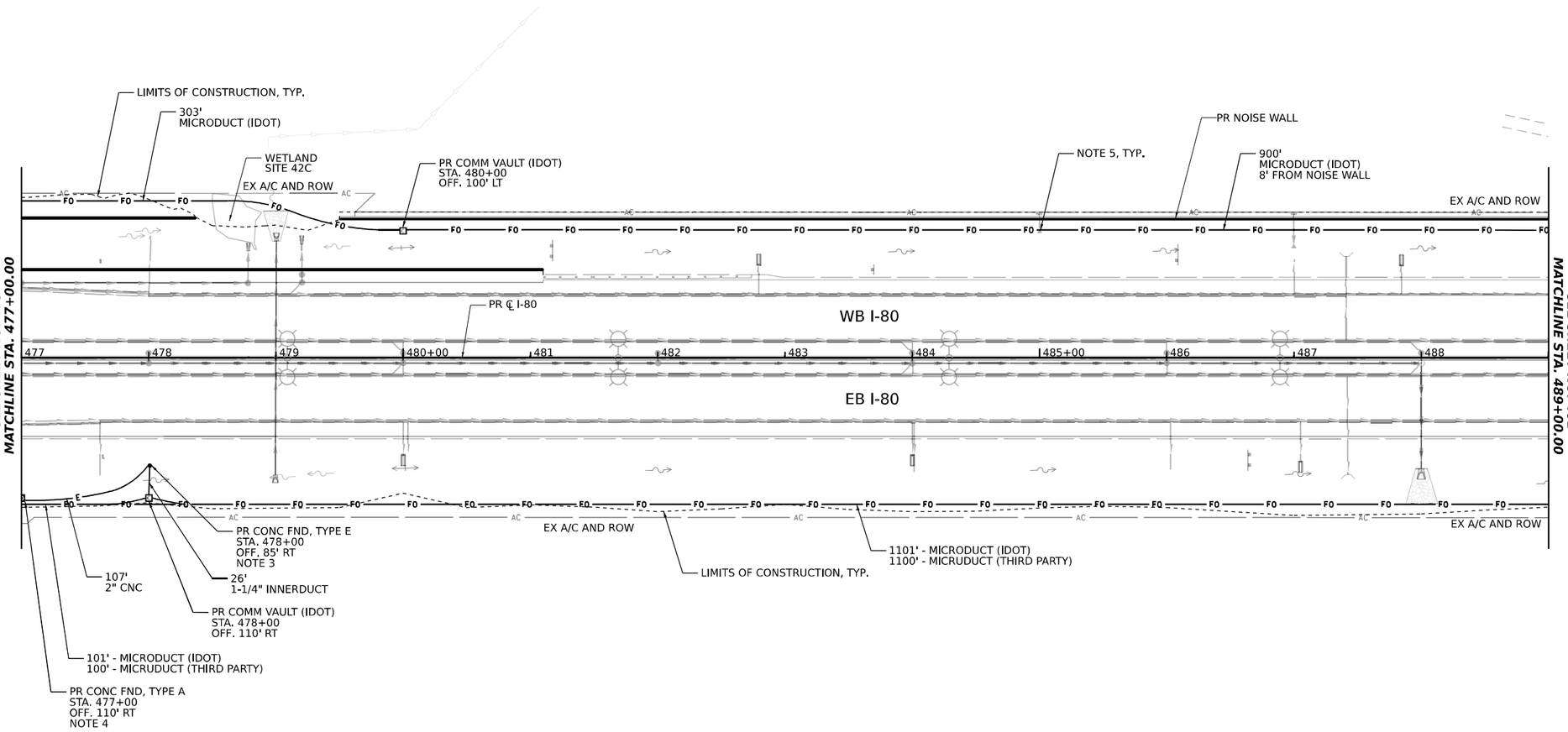
KEY PLAN



MODEL: BL_PL_BO = Plan 6 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Plans

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE PLANS
		DRAWN - DJM	REVISED -		
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -		
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		SCALE: 1"=50' SHEET 6 OF 11 SHEETS STA. 465+00.00 TO STA. 477+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	479
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



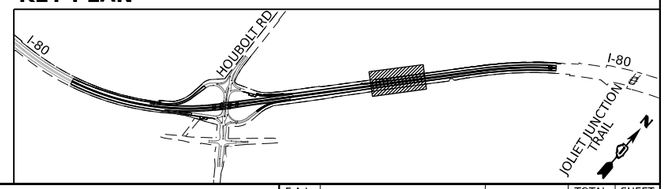
0 50 100 150

SCALE IN FEET

NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 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.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. COORDINATE INSTALLATION WITH DRAINAGE, MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN



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

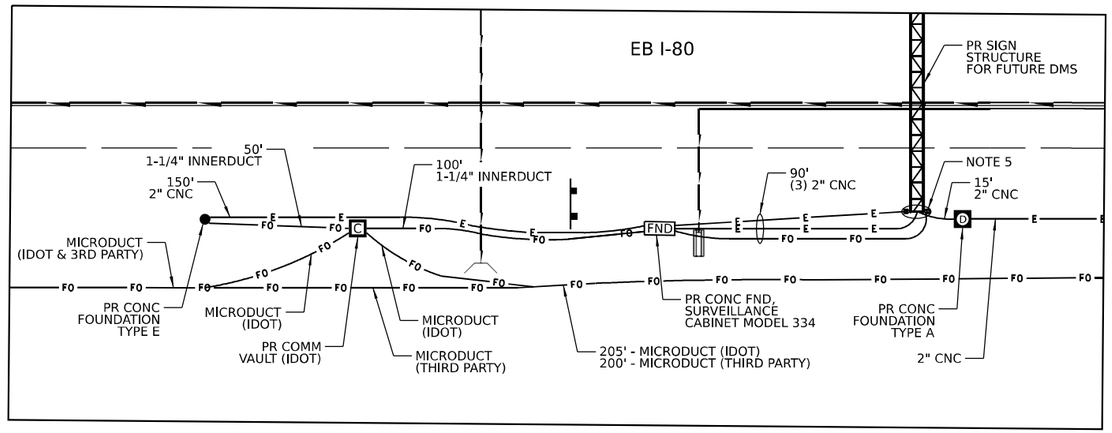
USER NAME = amkluver		DESIGNED - DJM	REVISED -	
		DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.		CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023		DATE - 11/11/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

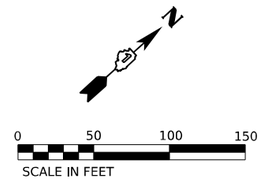
ITS INFRASTRUCTURE PLANS

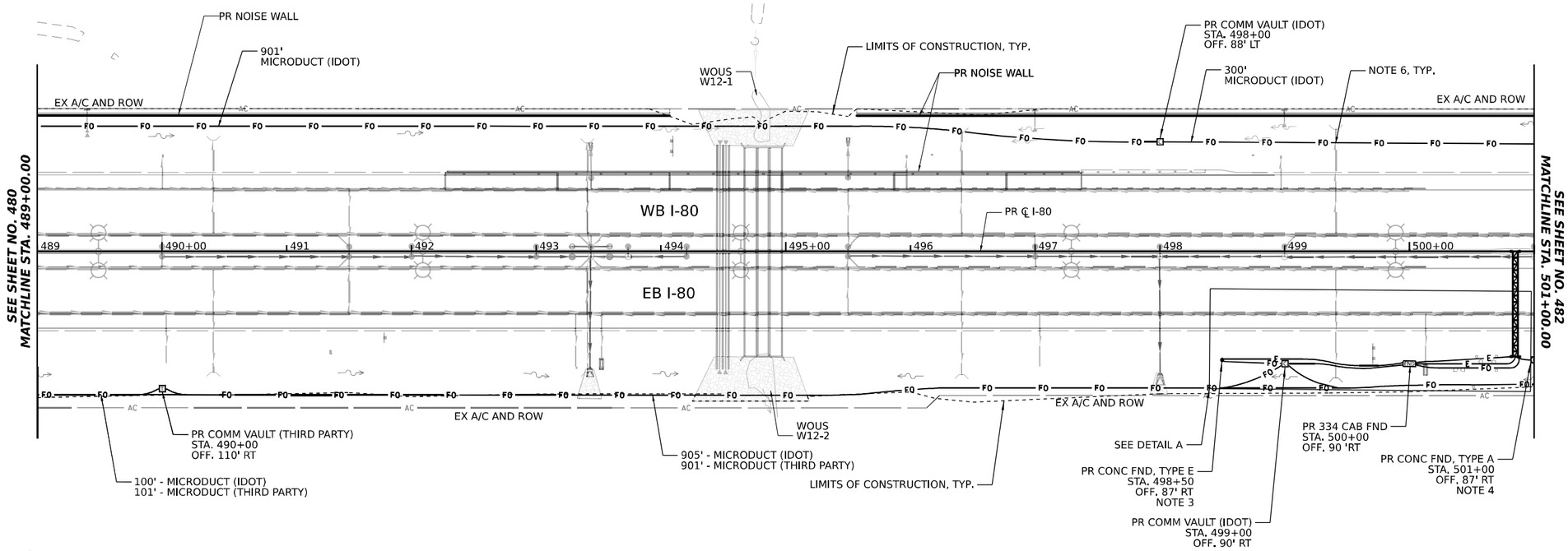
SCALE: 1"=50' | SHEET 7 OF 11 SHEETS | STA. 477+00.00 | TO STA. 489+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	480
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



DETAIL A

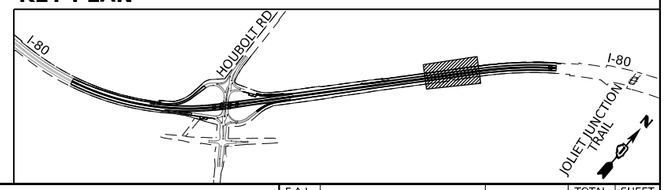




NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 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.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. 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 FOUNDATION STUBOUTS.
6. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN



MODEL: BL_PL_80 • Plan 8 [Sheet]
FILE NAME: pw:/transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27_ITS Plans

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

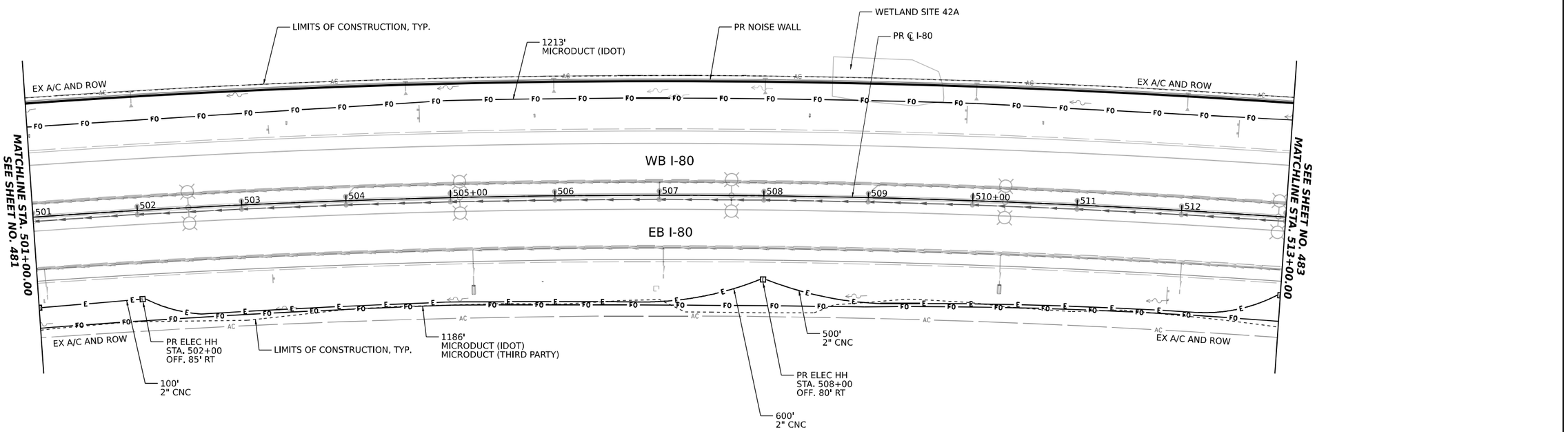
USER NAME = amkluver	DESIGNED - DJM	REVISED -
	DRAWN - DJM	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -
PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

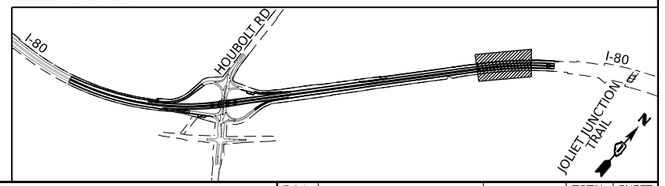
ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' | SHEET 8 OF 11 SHEETS | STA. 489+00.00 | TO STA. 501+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	481
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

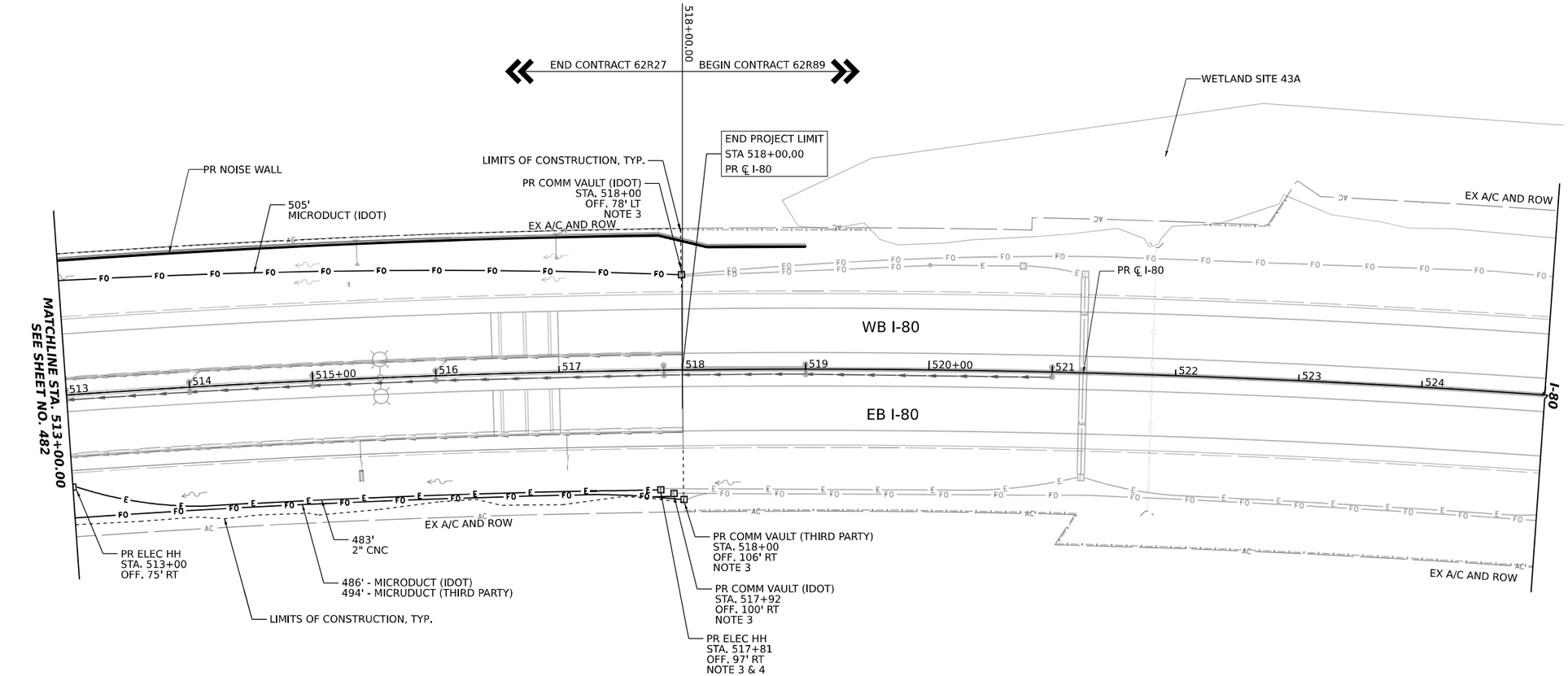


KEY PLAN



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = amkluver	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE PLANS
		DRAWN - DJM	REVISED -		
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -		
	PLOT DATE = 6/23/2023	DATE - 11/11/22	REVISED -		SCALE: 1"=50' | SHEET 9 OF 11 SHEETS | STA. 501+00.00 TO STA. 513+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	482
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

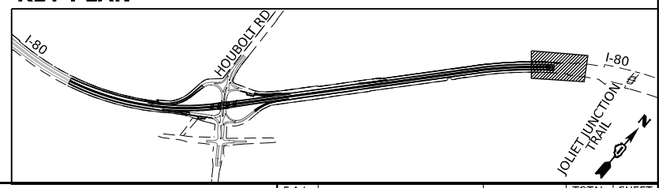


0 50 100 150
SCALE IN FEET

NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATION VAULTS
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. CONDUITS AND OTHER ITS INFRASTRUCTURE TO THE EAST TO BE CONSTRUCTED BY CONTRACT 62R89.
4. CONSTRUCT HEAVY-DUTY HANDHOLE WITH NONMETALLIC CONDUIT BELL ON EAST SIDE FOR 2" CONDUIT ENTERING FROM CONTRACT 62R89.

KEY PLAN



MODEL: BL_PR_80 • Plan 10 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401\401180022\02-TranSystems\CAD\62R27\Sheets\22-ITS TS\D162R27_ITS Plans

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

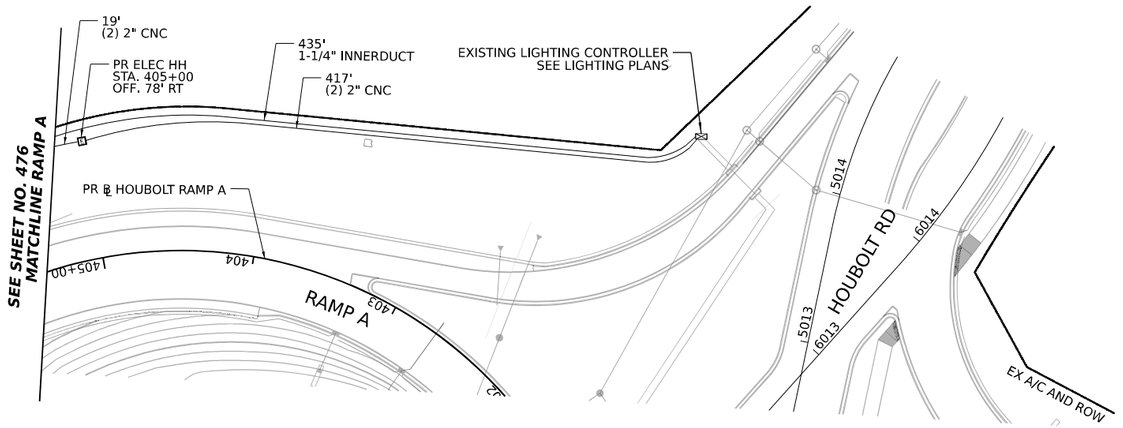
USER NAME = amkluver		DESIGNED - DJM	REVISED -	
		DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.		CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023		DATE - 11/11/22	REVISED -	

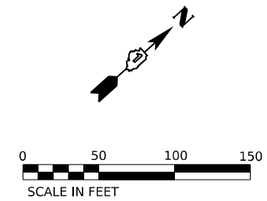
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

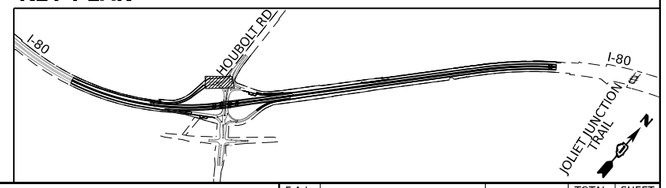
SCALE: 1"=50' | SHEET 10 OF 11 SHEETS | STA. 513+00.00 | TO STA. 518+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	483
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			





KEY PLAN



MODEL: BL_PR_I80 - Plan 11 [Sheet]
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS_TS/D162R27_ITS Plans

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

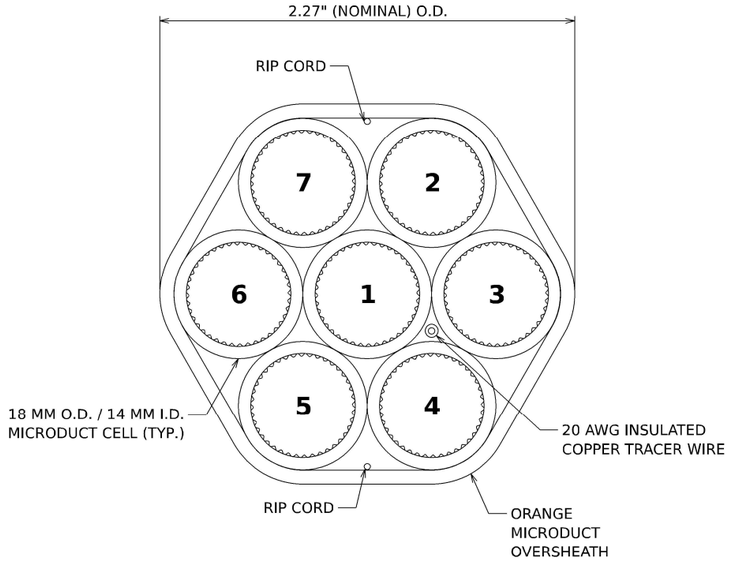
USER NAME = amkluver		DESIGNED - DJM		REVISED -	
		DRAWN - DJM		REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - REL		REVISED -	
PLOT DATE = 6/23/2023		DATE - 11/11/22		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

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

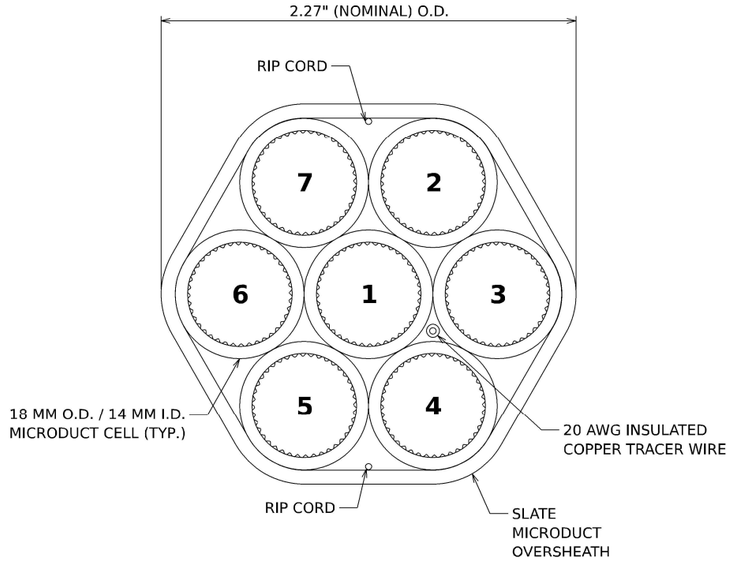
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	484
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



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

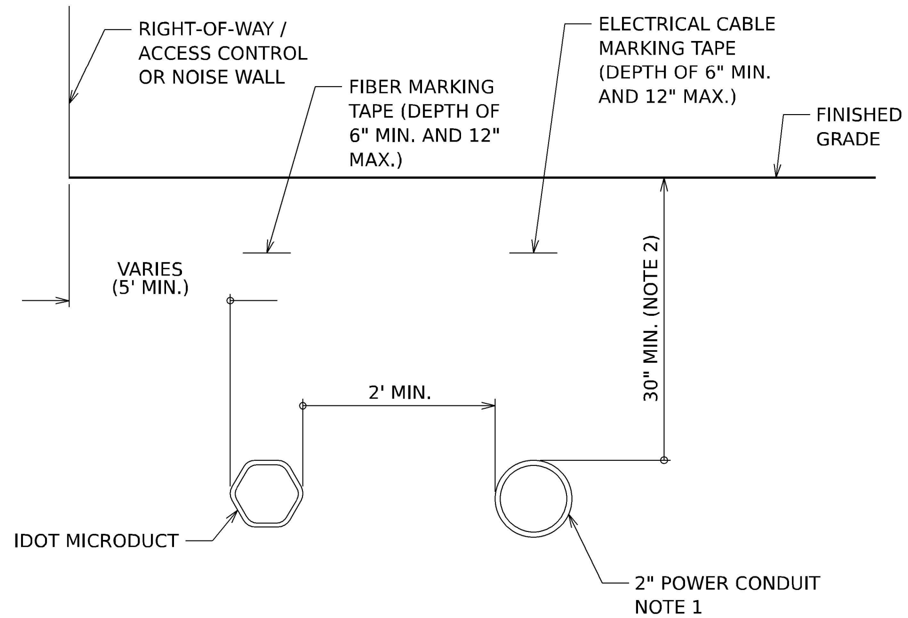
CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 THIRD PARTY
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

THIRD PARTY MICRODUCT CELL INFORMATION

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

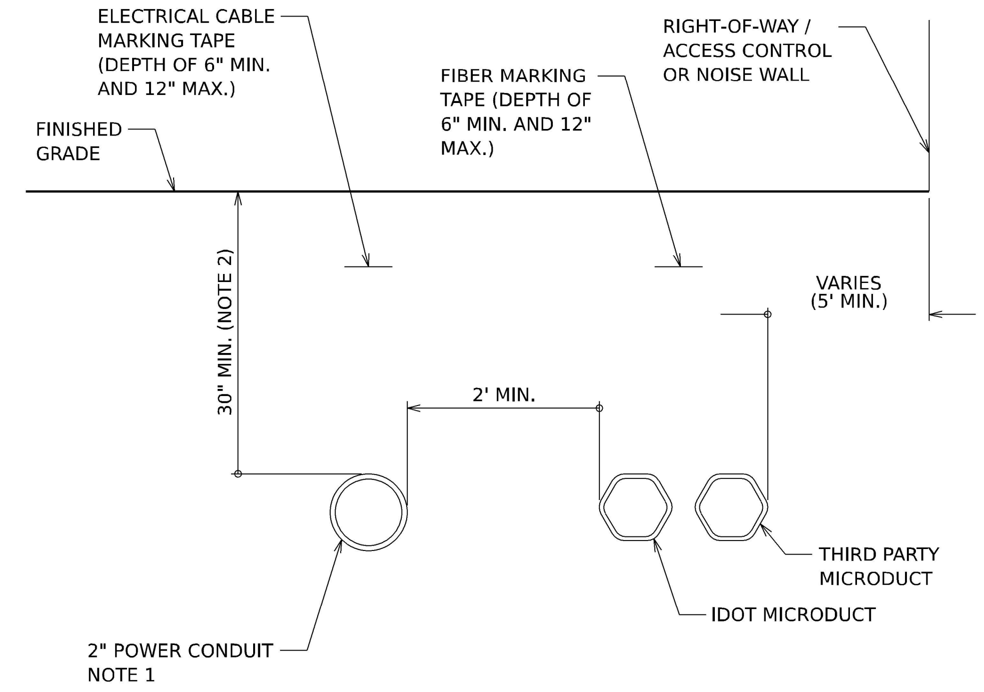
USER NAME = amkluver	DESIGNED - DJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE DETAILS MICRODUCT
	DRAWN - DJM	REVISED -		
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -		SCALE: NONE | SHEET 1 OF 11 SHEETS | STA. TO STA.
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	485
		CONTRACT NO. 62R27		
	ILLINOIS | FED. AID PROJECT			



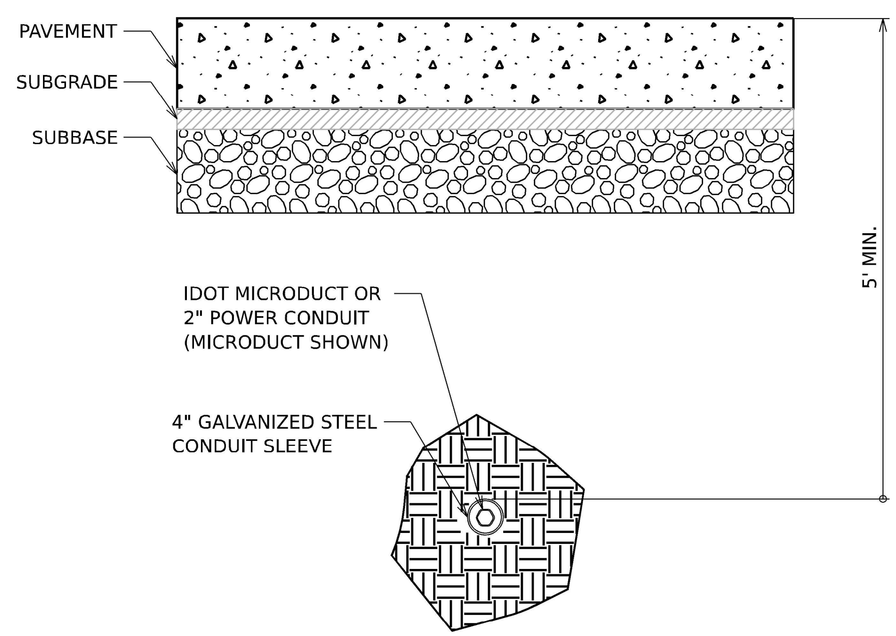
I-80 WESTBOUND TYPICAL CONDUIT SECTION

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

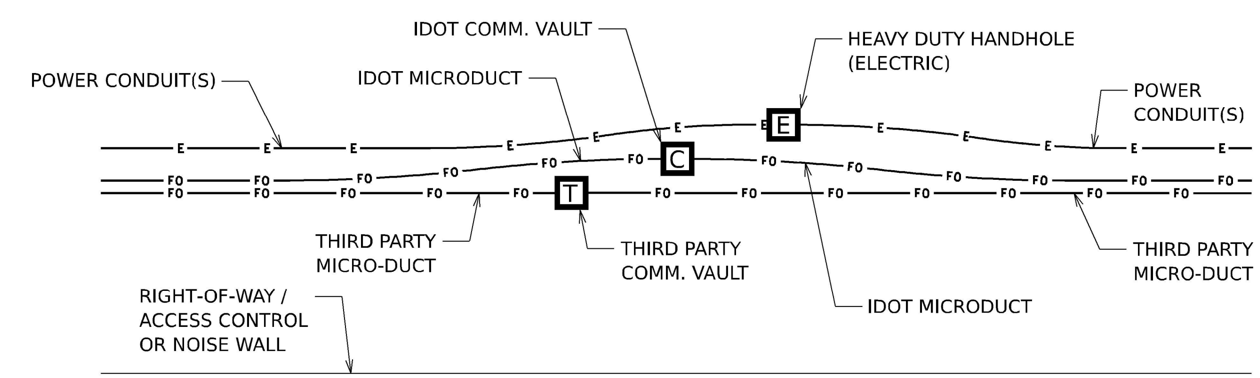


I-80 EASTBOUND TYPICAL CONDUIT SECTION

NOTES
1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
2. 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



TYPICAL CONDUIT ROUTING AT HANDHOLES

NOTES
1. 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.
3. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

MODEL: ITS Detail 2
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw1-hosted/Documents/Projects 2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS/D162R27 ITS Details.dgn

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

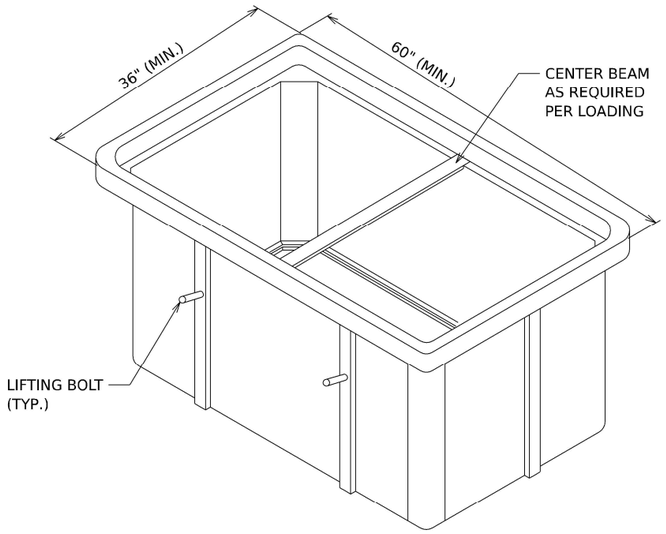
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

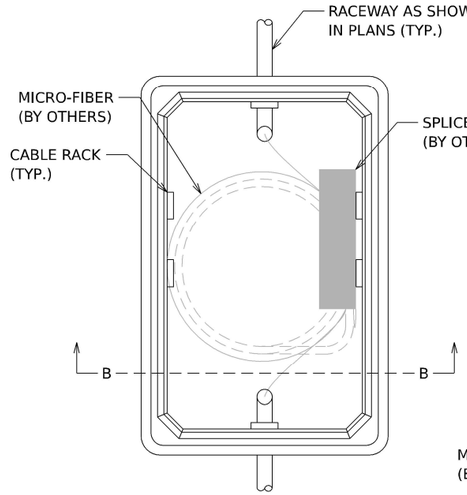
ITS INFRASTRUCTURE DETAILS
CONDUIT ROUTING

SCALE: NONE | SHEET 2 OF 11 SHEETS | STA. TO STA.

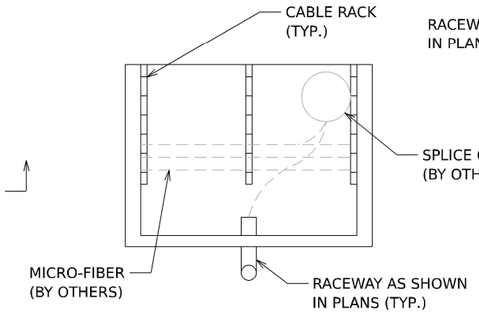
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	486
		CONTRACT NO. 62R27		
		ILLINOIS	FED. AID PROJECT	



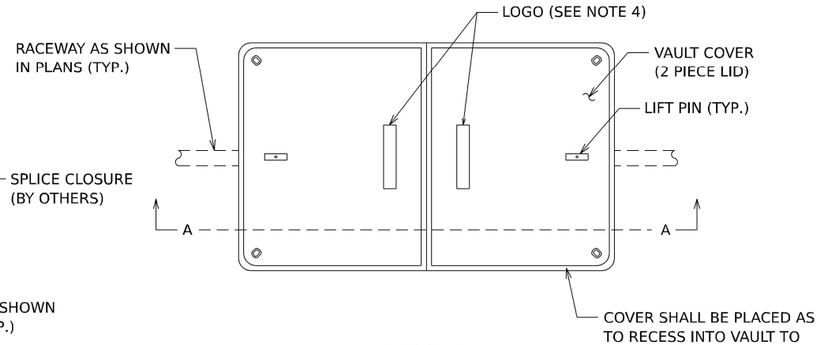
VAULT BOX ISOMETRIC VIEW



TOP VIEW



SECTION B-B



PLAN

NOTES:

1. GROUND ROD, 1-1/2" CONDUIT, #6 AWG GROUND WIRE, LOCATE POST AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250.

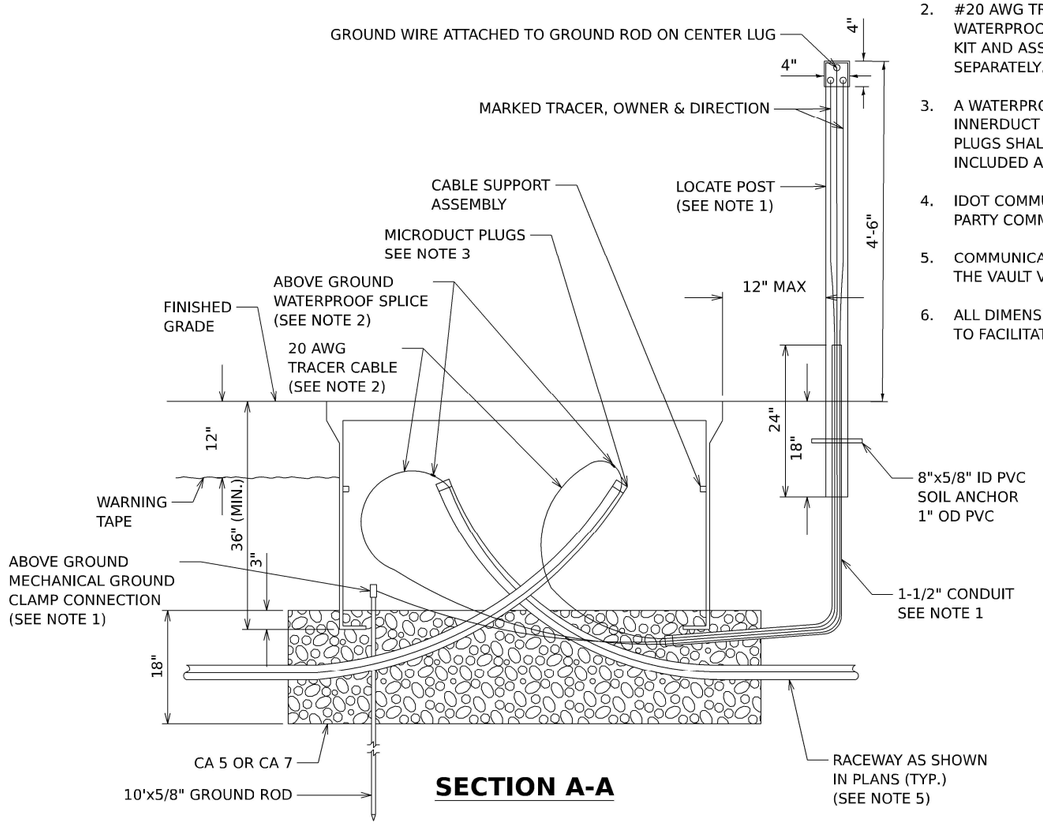
2. #20 AWG TRACER CABLE SHALL BE SPLICED TO THE #20 AWG TRACER CABLE IN THE MICRODUCT USING A WATERPROOF SPLICE KIT AS RECOMENDED BY THE MICRODUCT MANUFACTURER. THE #20 AWG WIRE, SPLICE KIT AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY.

3. A WATERPROOF MICRODUCT PLUG(S) OR INNERDUCT PLUG SHALL BE INSTALLED AROUND EACH MICRODUCT OR INNERDUCT TO SEAL AROUND THE DUCT FOR ALL MICRODUCTS OR INNERDUCTS COMING INTO THE VAULT. THE PLUGS SHALL BE APPROPRIATELY SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IS INCLUDED AS PART OF THE MICRODUCT OR INNERDUCT PAY ITEM AND WILL NOT BE PAID SEPARATELY.

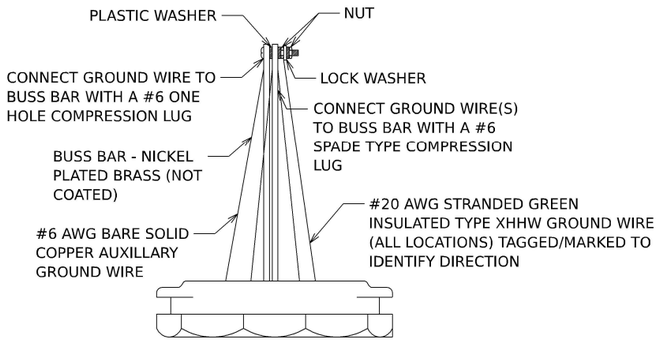
4. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT" AND THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT - BB".

5. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.

6. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

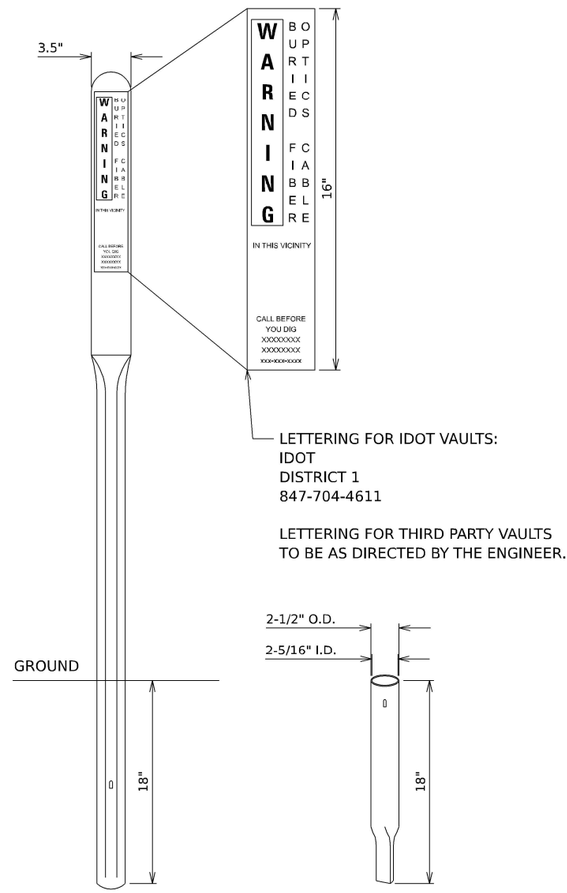


SECTION A-A



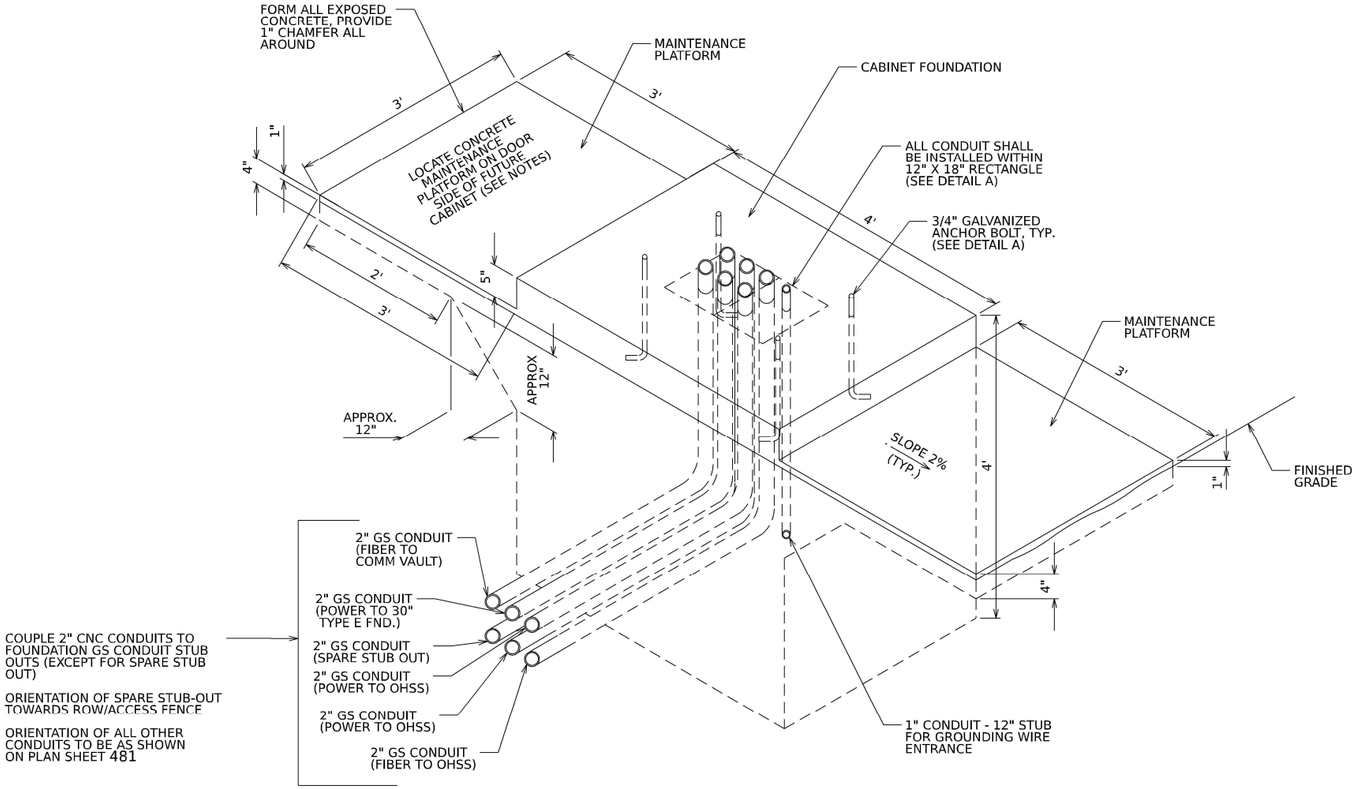
LOCATE POST TOP HAT BOND PLATE

N.T.S.

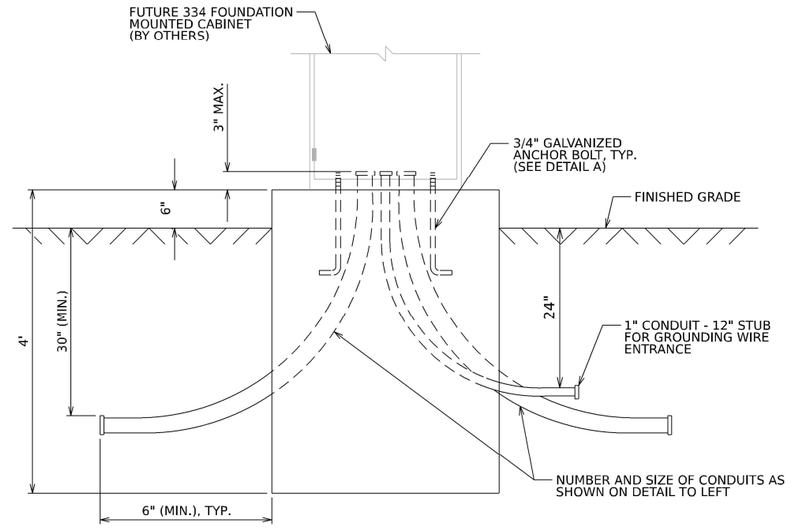


POST

SOIL ANCHOR



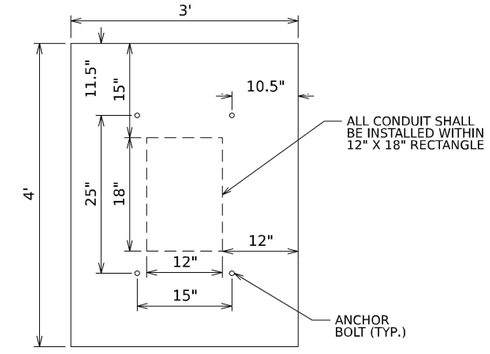
CONCRETE FOUNDATION FOR SURVEILLANCE CABINET MODEL 334 ELEVATION VIEW



CONCRETE FOUNDATION FOR SURVEILLANCE CABINET MODEL 334 ELEVATION VIEW

NOTES

1. 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.
2. 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.
4. 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.
6. 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.
10. 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.
15. 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.



DETAIL A CABINET FOUNDATION ANCHOR BOLT AND CONDUIT LAYOUT

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

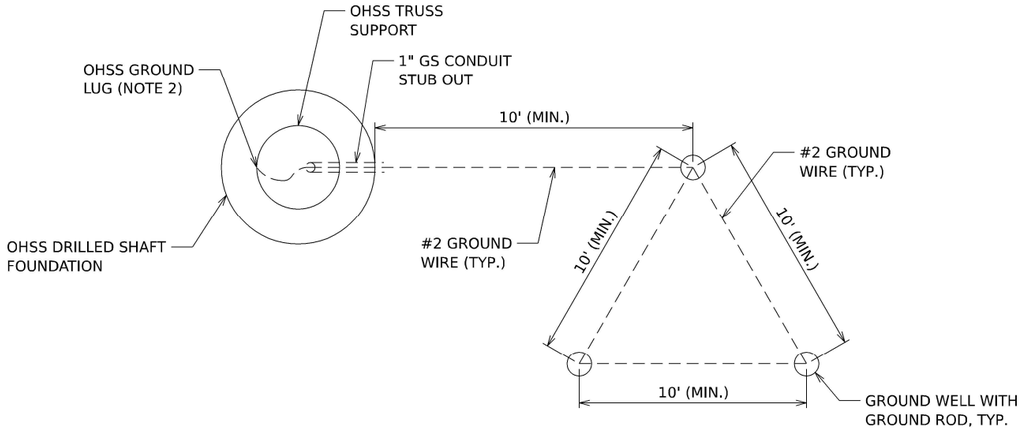
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

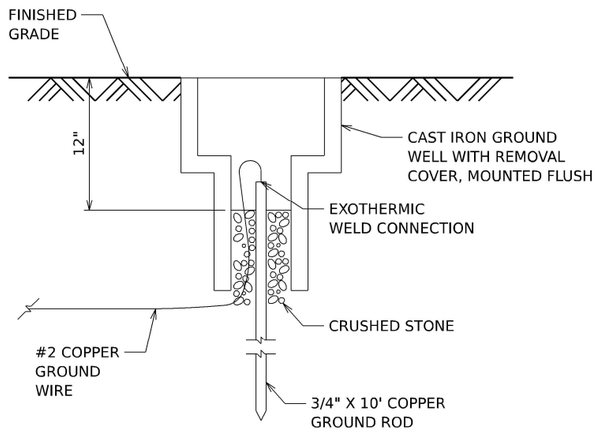
ITS INFRASTRUCTURE DETAILS
CONCRETE FOUNDATION, SURVEILLANCE CABINET MODEL 334

SCALE: NONE | SHEET 4 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	488
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



DMS SIGN STRUCTURE GROUNDING DETAIL



GROUND WELL DETAIL

NOTES

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.

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

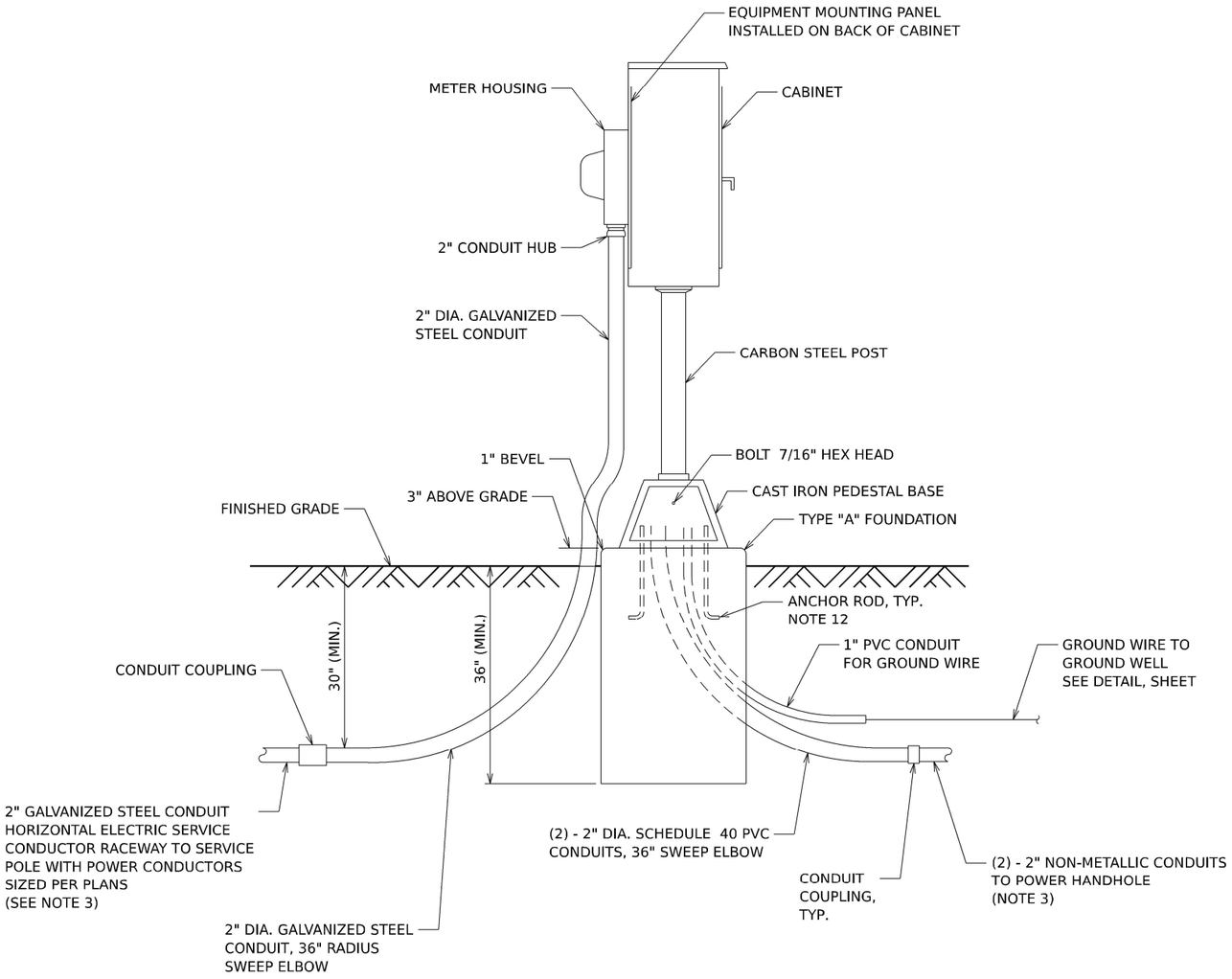
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
GROUNDING

SCALE: NONE | SHEET 5 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	489
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



SERVICE PEDESTAL WITH METER

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILTIY SERVICE INSTALLATION PAY ITEM.
3. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY/CONDUCTORS AND NON-METALLIC CONDUITS TO POWER HANDHOLE SHALL BE MEASURED SEPARATELY FOR PAYMENT.
4. 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.
5. METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CABINET. PROVIDE A GATE IN ROW FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
6. CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CABINET.
7. METER HOUSING SHALL BE AS REQUIRED BY THE UTILITY.
8. 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.
9. 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 RODS.
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.

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

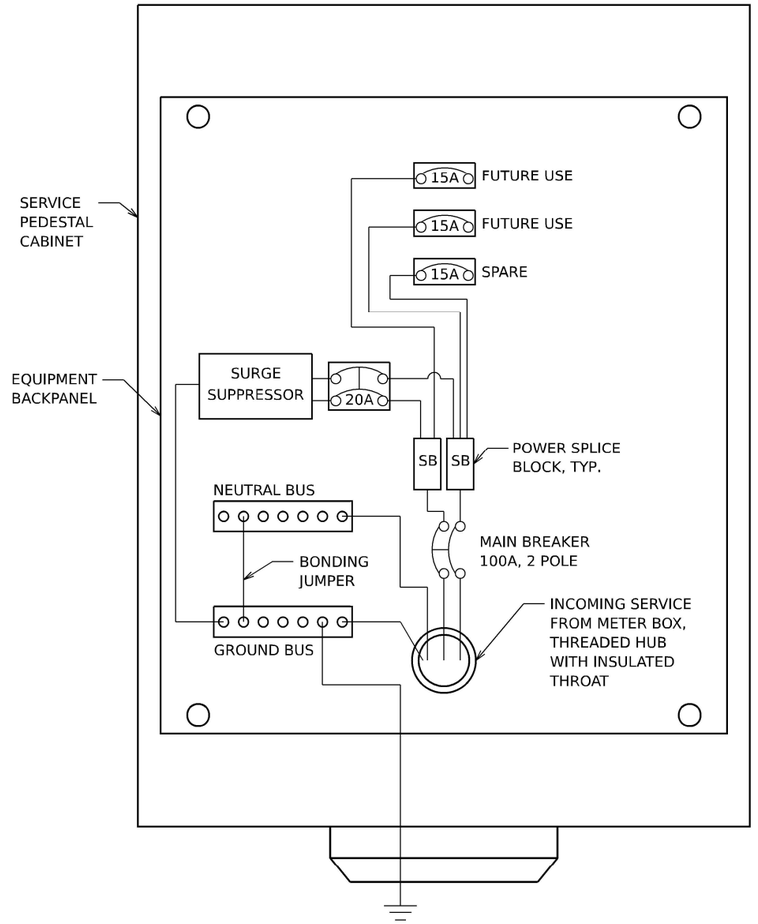
USER NAME = amkluver	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
SERVICE METER PEDESTAL

SCALE: NONE | SHEET 6 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	490
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



SERVICE PEDESTAL CABINET WIRING AND EQUIPMENT LAYOUT RAMP C - STA 201+29, 80' RT

NOTES

1. 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 14,000 SYMETRICAL AMPERES RATED AT 480 VOLTS MINIMUM. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.

3. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240 / 480 VOLT 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 240/480 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.

4. 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 CONNECTIONS.

5. 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.

6. 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.

7. EQUIPMENT IN DIAGRAM ABOVE IS NOT TO SCALE AND WIRING SCHEMATIC IS DIAGRAMMATIC. CONTRACTOR TO SUBMIT WIRING DIAGRAM AND EQUIPMENT LAYOUT FOR APPROVAL BY THE ENGINEER.

MODEL: ITS Detail 7
FILE NAME: pw://transystems-gw.bentley.com:transystcorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TSD162R27_ITS Details.dgn

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

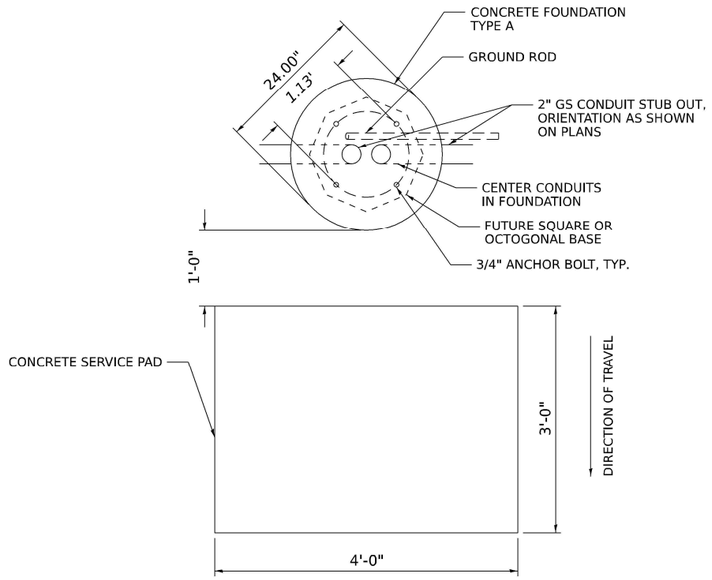
USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 7/25/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

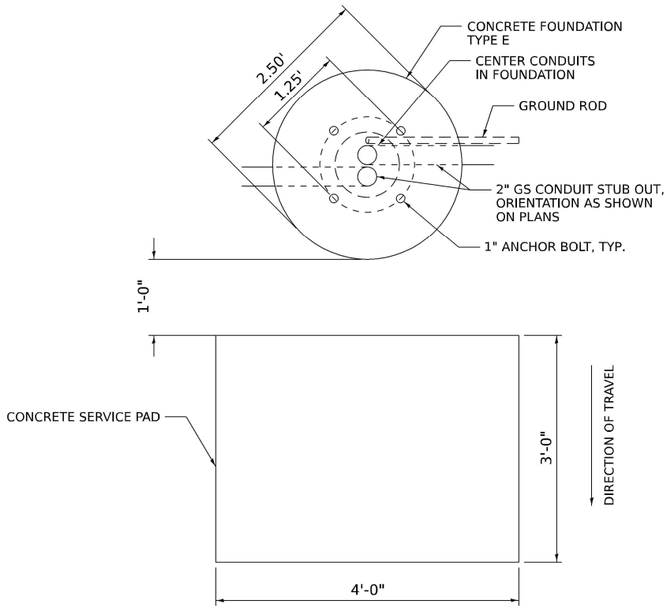
ITS INFRASTRUCTURE DETAILS
SERVICE METER PEDESTAL WIRING

SCALE: NONE | SHEET 7 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	491
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



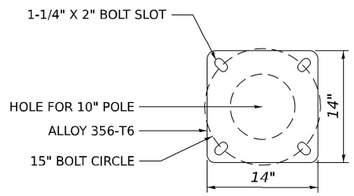
TOP VIEW
TYPE A FOUNDATION FOR FUTURE SERVICE DISCONNECT



TOP VIEW
TYPE E FOUNDATION FOR FUTURE CCTV POLE

NOTES

1. 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).



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

MODEL: ITS Detail 8
FILE NAME: pw:/transystems-pw.sentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/23-ITS TS/D162R27_ITS Details.dgn

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

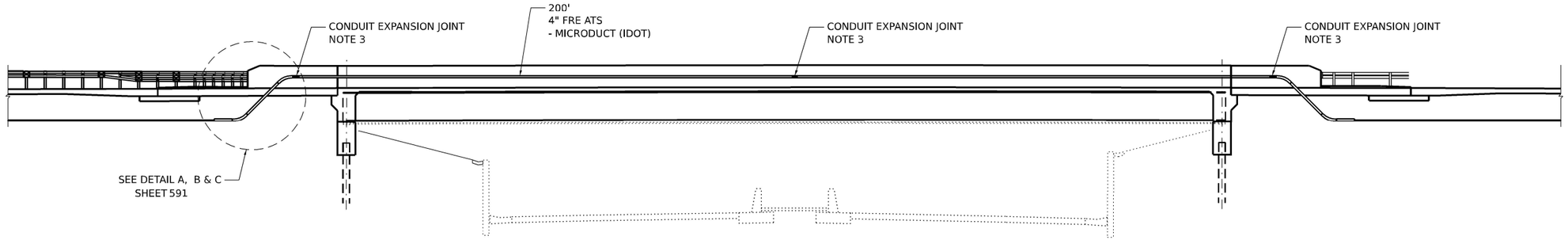
USER NAME = amkluver		DESIGNED - DJM	REVISED -	
		DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED - REL	REVISED -	
PLOT DATE = 7/27/2023		DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

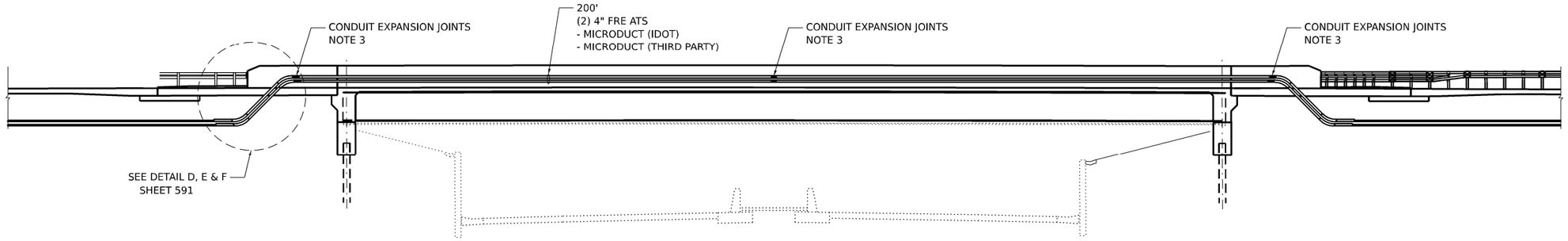
ITS INFRASTRUCTURE DETAILS
CONCRETE FOUNDATION TYPE A & E TOP VIEWS

SCALE: NONE | SHEET 8 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	492
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		



ITS CONDUIT ATTACHED TO STRUCTURE
I-80 WB OVER HOUBOLT ROAD
ELEVATION



ITS CONDUIT ATTACHED TO STRUCTURE
I-80 EB OVER HOUBOLT ROAD
ELEVATION (LOOKING NORTH)

NOTES

1. THIS SHEET IS FOR ITS CONDUIT ATTACHED TO STRUCTURE ONLY. SEE STRUCTURE NO. 099-0301 (EB) AND 099-0302 (WB) SHEETS FOR BRIDGE PLANS.
2. CONDUIT SUPPORTS NOT SHOWN FOR CLARITY.
3. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED AT EACH END OF THE BRIDGE AND AT ALL BRIDGE EXPANSION JOINTS OR INTERIOR FULL-DEPTH PARAPET JOINT LOCATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.

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

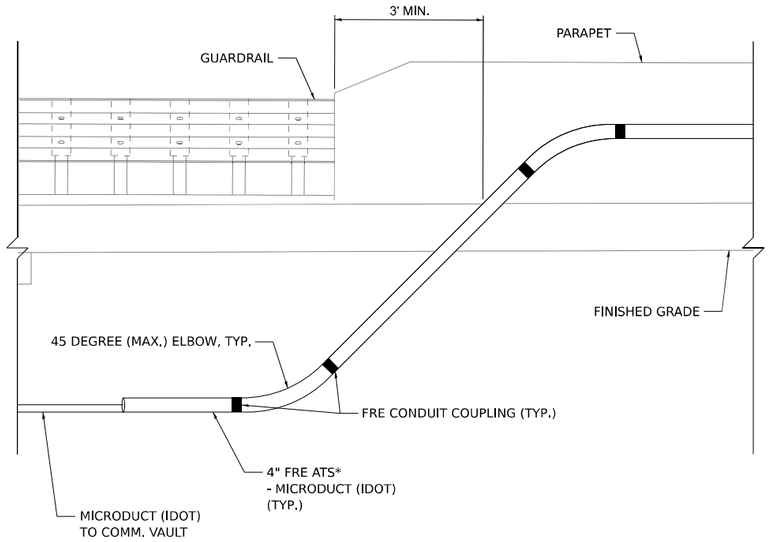
USER NAME = dmeier	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -	
PLOT DATE = 7/25/2023	DATE - 6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTURCTURE DETAILS
CONDUIT ATS – HOUBOLT

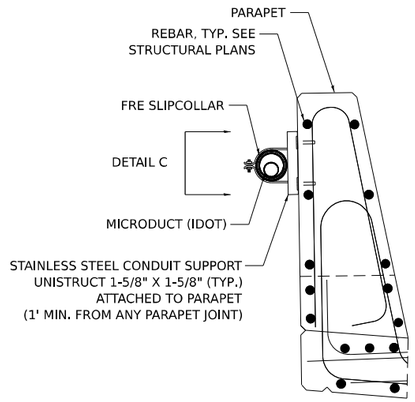
SCALE: NONE | SHEET 9 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	493
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

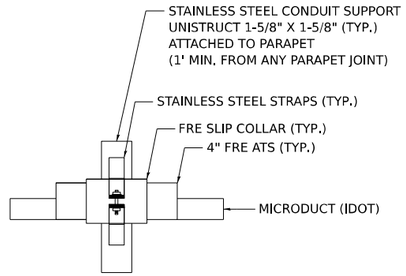


FRE CONDUIT BELOW GRADE PAID FOR AS CONDUIT ATTACHED TO STRUCTURE.

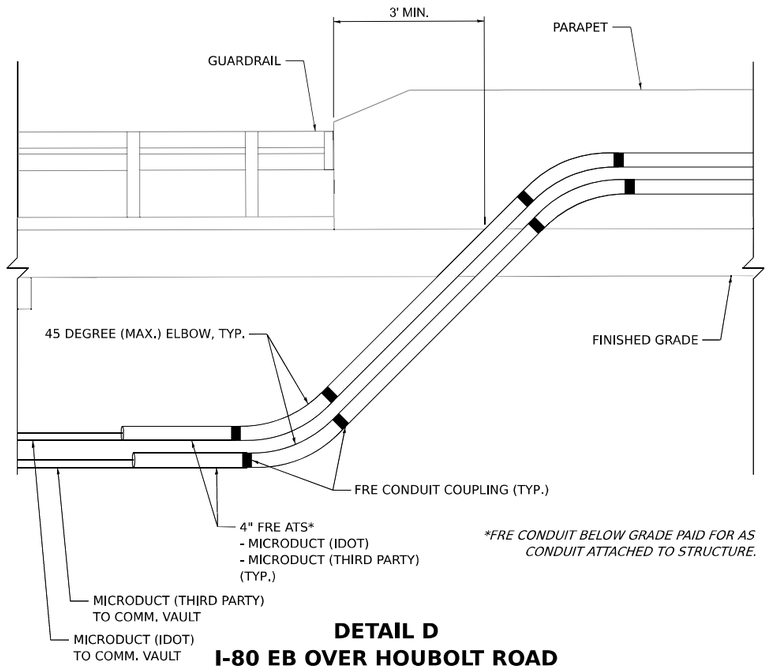
DETAIL A
I-80 WB OVER HOUBOLT ROAD
EAST END OF BRIDGE



DETAIL B
I-80 WB OVER HOUBOLT ROAD
BRIDGE PARAPET CROSS SECTION

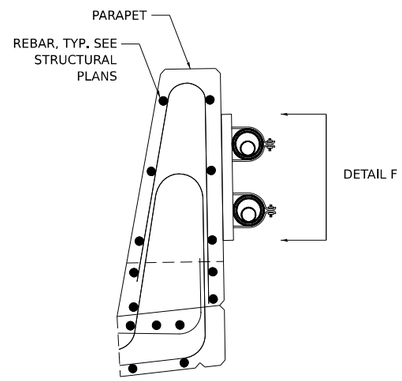


DETAIL C
I-80 WB OVER HOUBOLT ROAD
TYPICAL CONDUIT SUPPORT DETAIL

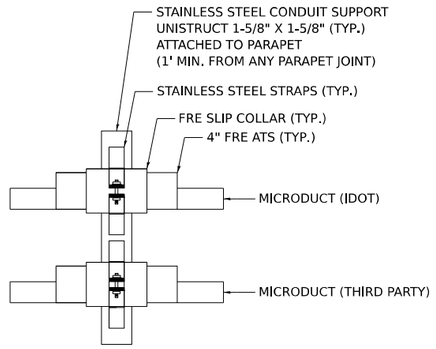


FRE CONDUIT BELOW GRADE PAID FOR AS CONDUIT ATTACHED TO STRUCTURE.

DETAIL D
I-80 EB OVER HOUBOLT ROAD
WEST END OF BRIDGE



DETAIL E
I-80 EB OVER HOUBOLT ROAD
BRIDGE PARAPET CROSS SECTION



DETAIL F
I-80 EB OVER HOUBOLT ROAD
TYPICAL CONDUIT SUPPORT DETAIL

MODEL: ITS Detail 10
FILE NAME: pw://transystems-pw.bentley.com:transyscorp-pw2-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62R27/Sheets/22-ITS TS\D162R27_ITS Details.dgn

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

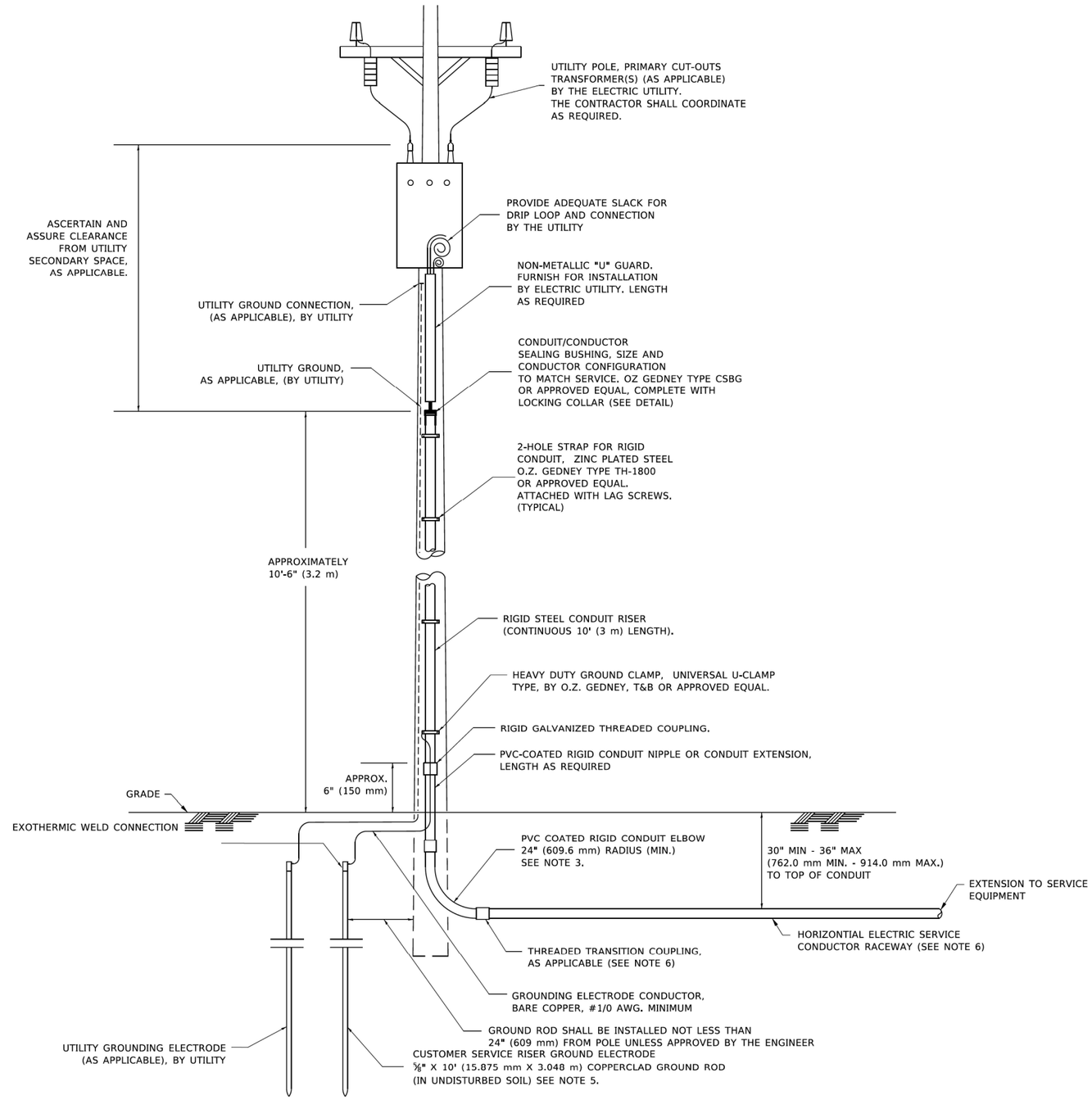
USER NAME = amkluver		DESIGNED -	DJM	REVISED -	
		DRAWN -	DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / in.		CHECKED -	REL	REVISED -	
PLOT DATE = 6/23/2023		DATE -	6/26/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTURCTURE DETAILS
CONDUIT ATS – HOUBOLT

SCALE: NONE | SHEET 10 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	494
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

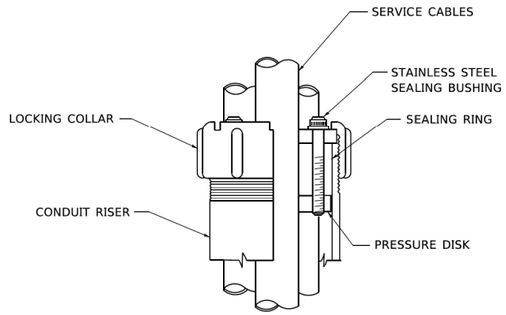


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR 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.



SEALING BUSHING DETAIL

MODEL: Default
FILE NAME: pw:\pkanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Std22x34\CADData\CADsheets\be220.dgn

USER NAME = footemj	DESIGNED -	REVISED - 03-03-06	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / In.	CHECKED - MEA	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-220	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

MODEL: ITS Detail 11
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-Hosted/Documents/Projects_2018/CH401401180022/02-TranSystems/CAD/62R27/Sheets/23-ITS TS/D162R27_ITS Details.dgn

be220.dgn 4/10/2019 2:14:18 PM User=footemj

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

USER NAME = amkluver	DESIGNED - DJM	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -	

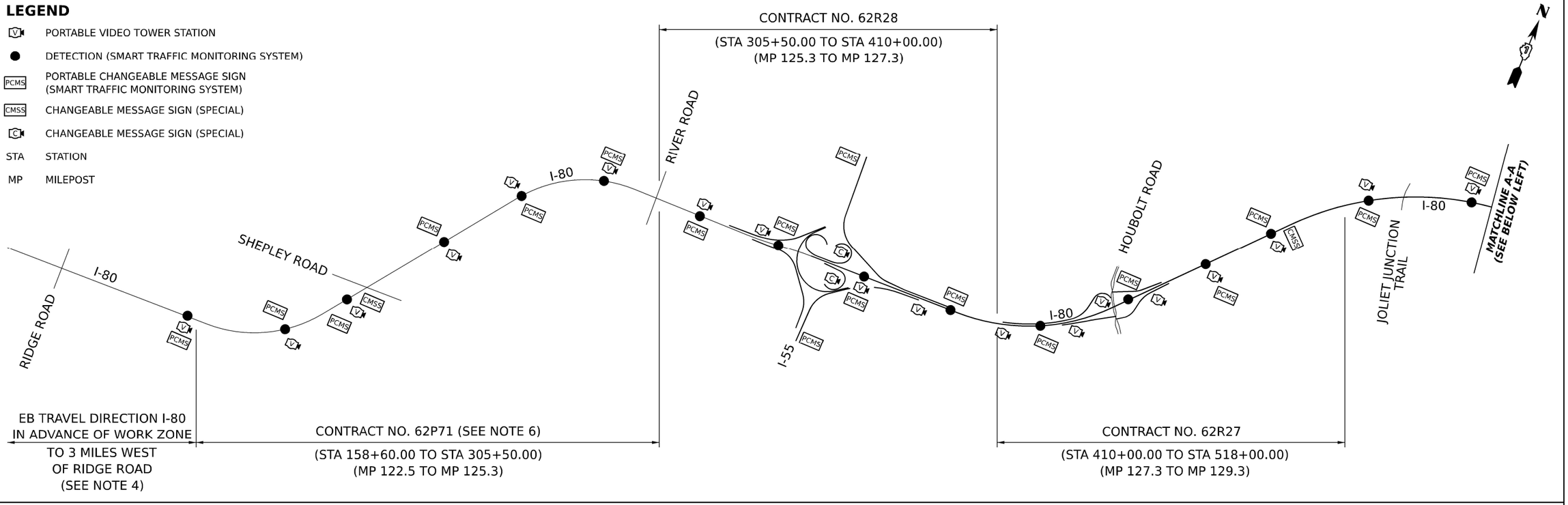
BE-220

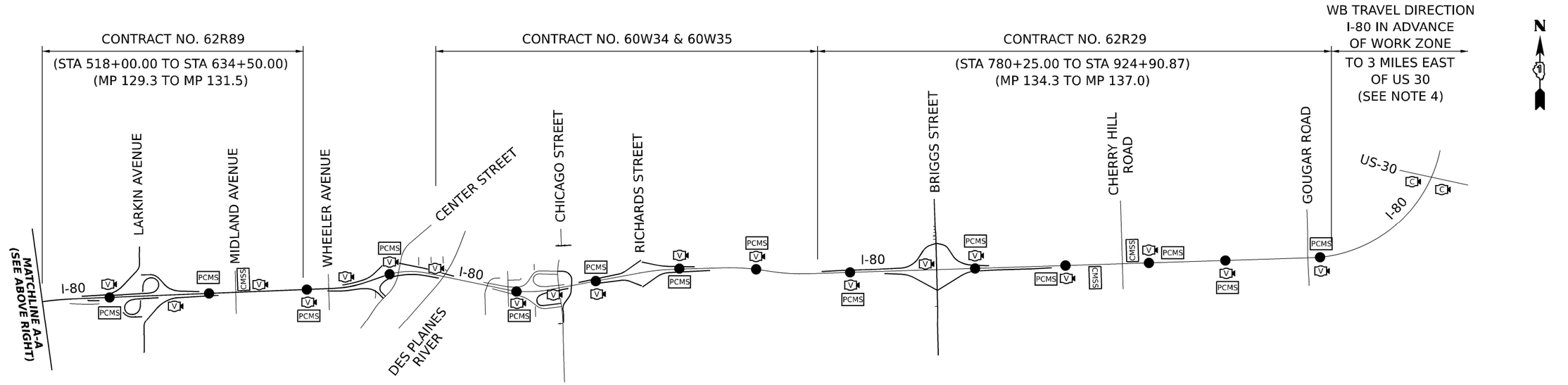
SCALE: NONE | SHEET 11 OF 11 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	495
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			

LEGEND

- PORTABLE VIDEO TOWER STATION
- DETECTION (SMART TRAFFIC MONITORING SYSTEM)
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN (SMART TRAFFIC MONITORING SYSTEM)
- CMSS — CHANGEABLE MESSAGE SIGN (SPECIAL)
- C — CHANGEABLE MESSAGE SIGN (SPECIAL)
- STA — STATION
- MP — MILEPOST





NOTES

1. THIS SHEET IS NOT INTENDED TO SHOW EXACT LOCATIONS, JUST TO DEPICT A GENERAL LAYOUT OF THE SMART TRAFFIC MONITORING SYSTEM DEVICES (PCMS AND DETECTORS), CHANGEABLE MESSAGE SIGNS (SPECIAL), AND PORTABLE VIDEO TOWER STATIONS. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. PCMS AND CMS ARE SHOWN ON THE DIRECTION OF TRAVEL OF I-80 (EB OR WB) AS REQUIRED. DETECTORS AND PORTABLE VIDEO TOWER STATIONS SHALL BE PLACED IN THE EB AND/OR WB TRAVEL DIRECTION AS NECESSARY TO MEET REQUIREMENTS OF SPECIAL PROVISIONS.
3. PCMS SHALL BE SPACED A MINIMUM OF 500' FROM CHANGEABLE MESSAGE SIGN (SPECIAL).
4. DETECTORS, PCMS, AND PORTABLE VIDEO TOWER STATIONS TO BE PLACED IN ADVANCE OF THE CONSTRUCTION WORK ZONE PER REQUIREMENTS OF SPECIAL PROVISIONS. THE CONSTRUCTION WORK ZONE LIMITS CHANGE UPON COMPLETION OF CONTRACT NO. 62P71 AND NO. 62R29. REFER TO SPECIAL PROVISIONS FOR FURTHER DETAILS.
5. SEE SHEET NO. 680 FOR ADDITIONAL DETAILS AT PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS. THIS SHEET SHALL BE USED IN CONJUNCTION WITH SHEET NO. 680, SMART TRAFFIC MONITORING SYSTEM - TYPICAL LAYOUT.
6. CONTRACT NO. 62P71 IS TO PROVIDE PORTABLE VIDEO TRAILER STATIONS AND CHANGEABLE MESSAGE SIGN (SPECIAL) WITHIN THE CONTRACT LIMITS AND THROUGH THE CONTRACT COMPLETION DATE OF CONTRACT NO. 62P71.

0 1500 3000 4500
SCALE IN FEET

MODEL: KEY-01
FILE NAME: pw://transystems-pw.bentley.com:transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/02-TranSystems/CAD/62827/Sheets/23-ITS_TSD162827_ITS Smart Workzone.dgn

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

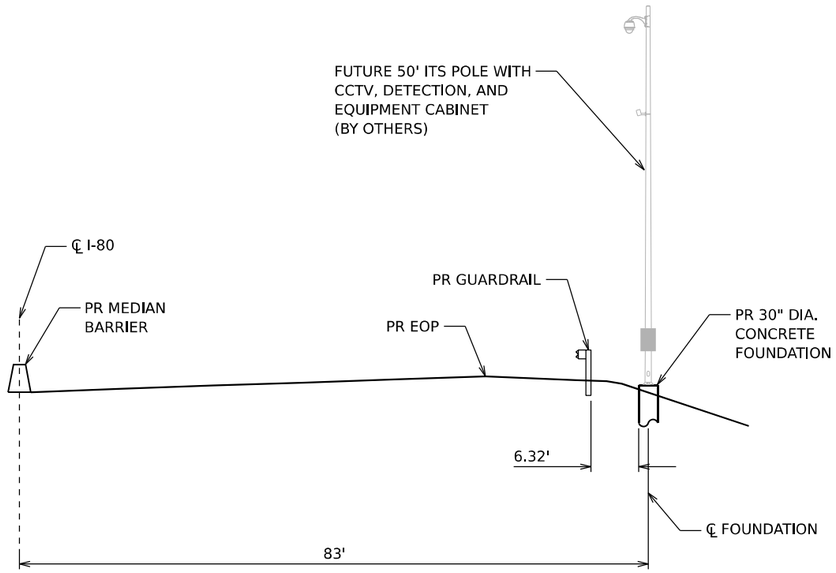
USER NAME = dmeler	DESIGNED - DJM	REVISED -	
	DRAWN - DJM	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED - REL	REVISED -	
PLOT DATE = 7/26/2023	DATE - 7/28/23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

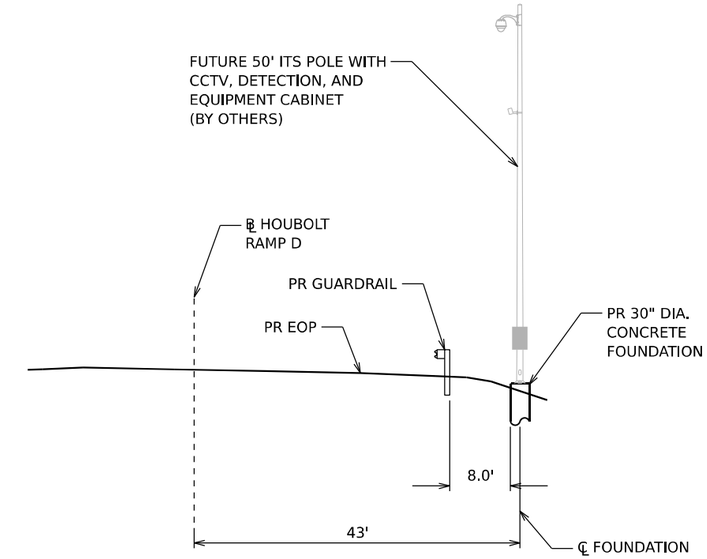
SMART TRAFFIC MONITORING SYSTEM

SCALE: 1"=1500' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	496
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



STA 411+00
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION

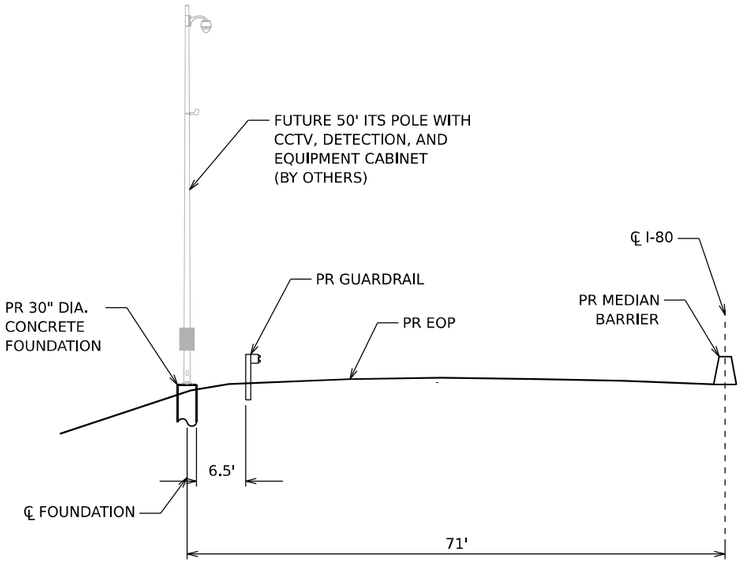


RAMP D, STA 105+91
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION

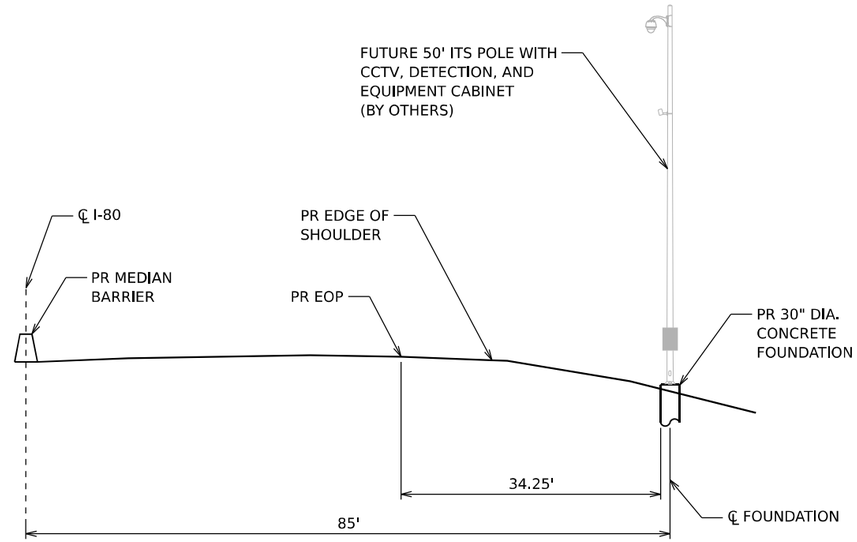
MODEL: ITS XS-1
FILE NAME: pw:\transystems-pw.bentley.com:transystems-pw1-hosted\Documents\Projects_2018\CH401\401180022\02-TranSystems\CAD\62R27\Sheets\22-ITS TS\D162R27_ITS Cross Sections.dgn

exp.	USER NAME = amkluver	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS CROSS SECTIONS
		DRAWN - CS	REVISED -		
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - BRH	REVISED -		SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. TO STA.
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	497
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



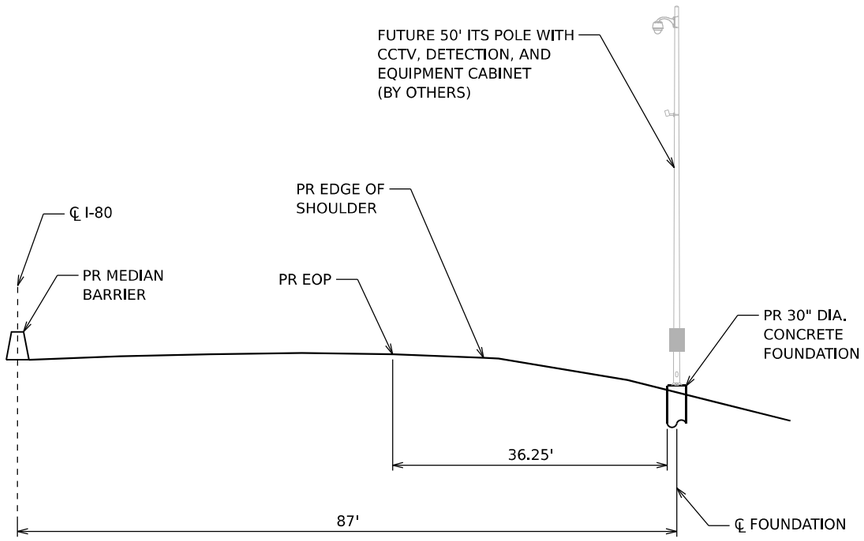
STA 451+25
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION



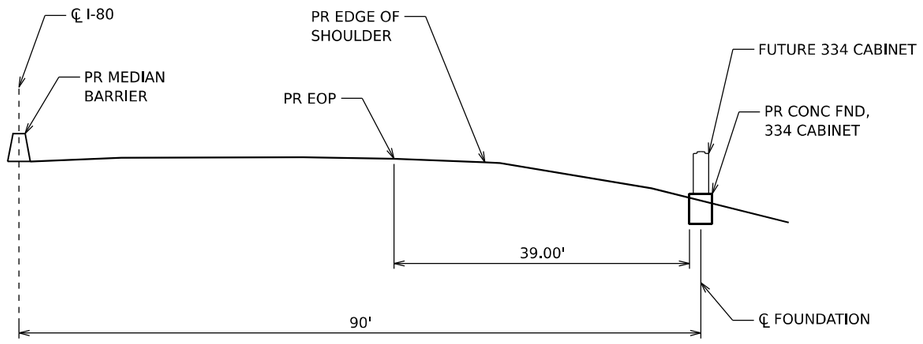
STA 478+00
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION

exp.	USER NAME = amkluver	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS CROSS SECTIONS
		DRAWN - CS	REVISED -		
	PLOT SCALE = 0.16666633 ' / In.	CHECKED - BRH	REVISED -		SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. TO STA.
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	498
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



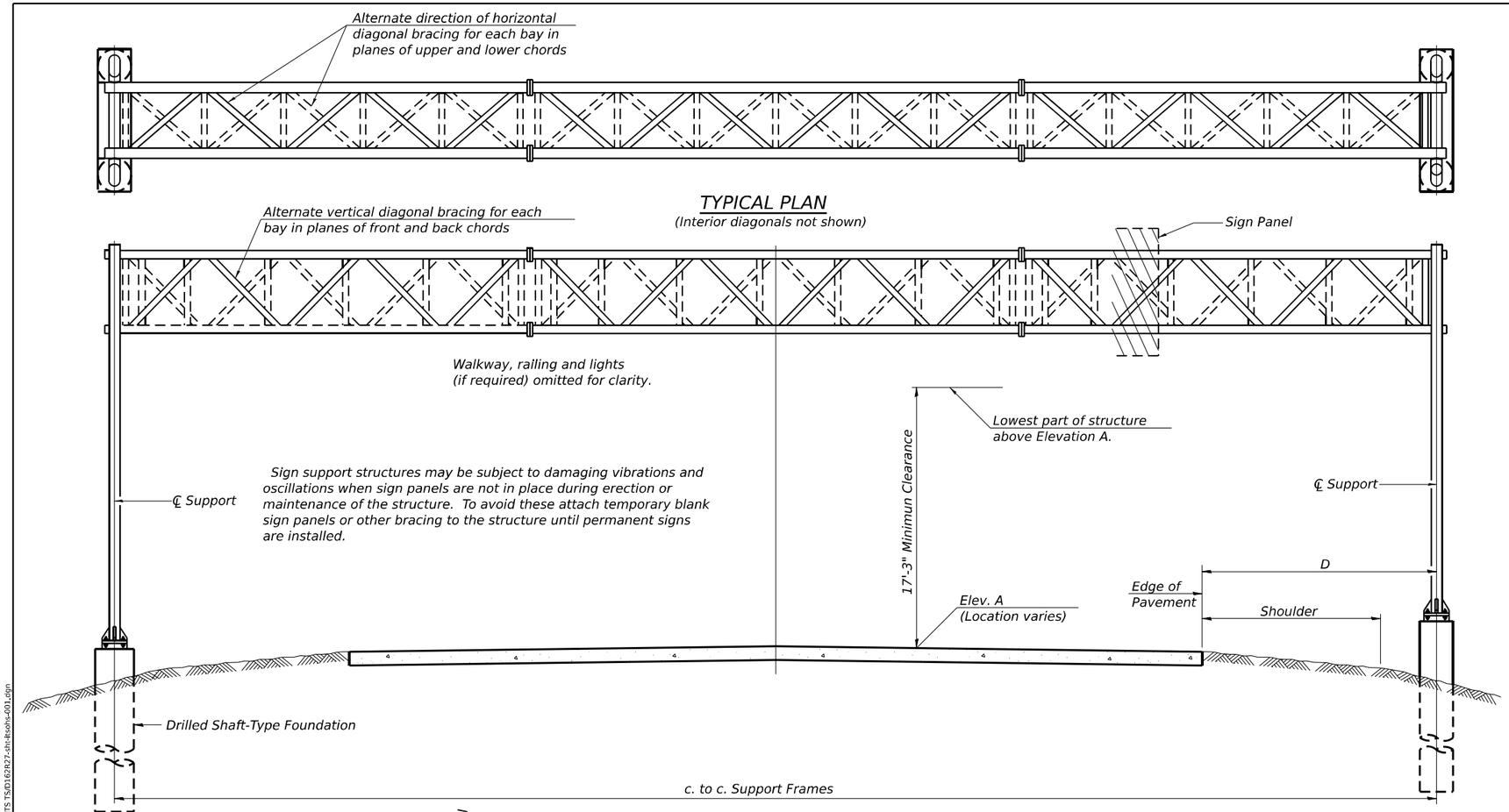
STA 498+50
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION



STA 500+00
(LOOKING EAST)
334 CABINET FOUNDATION

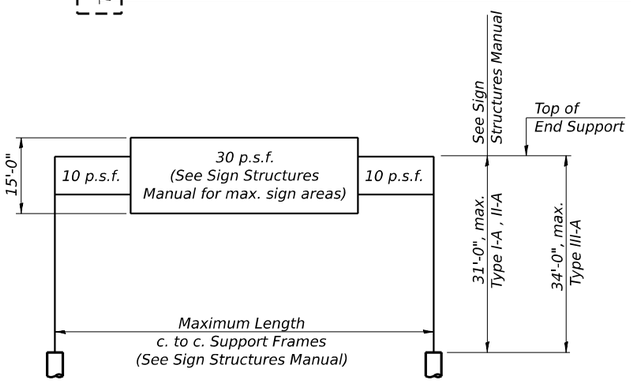
exp.	USER NAME = amkluver	DESIGNED - CS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS CROSS SECTIONS
		DRAWN - CS	REVISED -		
	PLOT SCALE = 0.16666633 ' / in.	CHECKED - BRH	REVISED -		SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. TO STA.
	PLOT DATE = 6/23/2023	DATE - 6/26/23	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	499
		CONTRACT NO. 62R27		
	ILLINOIS FED. AID PROJECT			



TYPICAL PLAN

(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

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.

TYPICAL ELEVATION

(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S099I080R129.0	500+85	III-A	85'-0''	597.37	35'-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
f'c = 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 Eyebolt 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 permitted.

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	85
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	52
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	28.3
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	4
ROCK EXCAVATION FOR STRUCTURES	Cu Yd	2

exp.

USER NAME = RussellBr	DESIGNED - CS	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 31.9987 ' / in.	CHECKED - BAR	REVISED -	
PLOT DATE = 8/2/2023	DATE - 8/10/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 6	WILL	898	500
		CONTRACT NO. 62R27		
	ILLINOIS	FED. AID PROJECT		