

LED LED UNDERPASS LUMINAIRE TYPE D

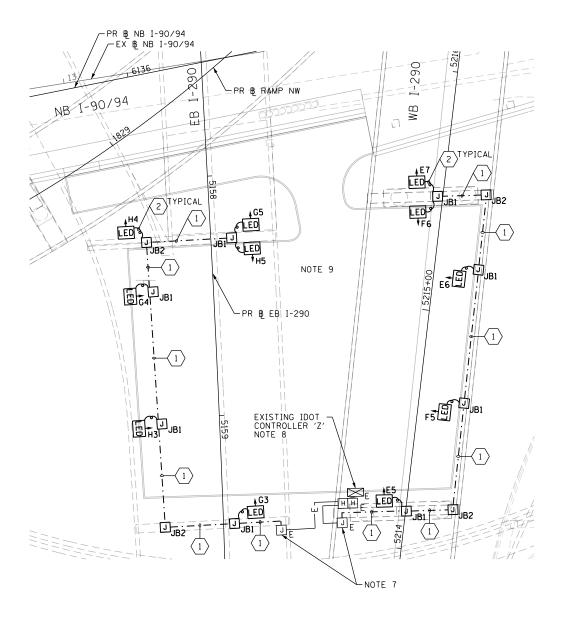
	UNDERPASS LUMINAIRE TABLE	(CONTROLLER 'Z	')
RΕ	STATION & OFFSET (EB I-290)	NOTES	MOUNTING
	STA. 5159+38.08, 67.31 LT	NOTE 5	PIER
	STA. 5158+48.07, 102.45 LT	NOTE 4	SUSPENDED
	STA. 5158+07.26, 87.10 LT	NOTE 5	PIER
	STA. 5159+02.54, 93.85 LT	NOTE 4	SUSPENDED
	STA. 5158+19.71, 86.81 LT	NOTE 5	PIER
	STA. 5159+40.76, 13.56 LT	NOTE 5	PIER
	STA. 5158+48.55, 34.78 RT	NOTE 4	SUSPENDED
	STA. 5158+21.25, 16.99 LT	NOTE 5	PIER
	STA. 5159+04.06, 33.68 RT	NOTE 4	SUSPENDED
	STA. 5158+21.75, 35.11 RT	NOTE 5	PIER
	STA. 5158+31.06, 17.00 LT	NOTE 5	PIER

STA. 5158+31.06, 17.00 LT NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.

LUMINAIRE | STATION & OFFSET (EB I-290)

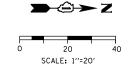
JUNCTION BOX SCHEDULE										
NO.	SIZE	DESCRIPTION								
JB1	6′′×6′′×4′′	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING								
JB2	12"×10"×6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING								

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





- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 3. IDOT CONTRACTS 60X94, 62A77 AND 60YOO WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS
- 4. SEE IDOT STANDARD DRAWING BE-901 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
- 5. SEE IDOT STANDARD DRAWING BE-903 FOR ADDITIONAL INSTALLATION DETAILS FOR THE PROPOSED PIER MOUNTED UNDERPASS LUMINAIRES.
- 6. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM EXISTING IDOT LIGHTING CONTROLLER 'Z'.
- 7. DRILL THE EXISTING JUNCTION BOX LOCATED ON THE PIER AND SPLICE THE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING LIGHTING CIRCUIT CABLES WITHIN THE EXISTING JUNCTION
- 8. LIGHTING CONTROLLER Z AND ASSOCIATED DOUBLE HANDHOLE WILL BE INSTALLED IN CONTRACT 60X79 BY AUGUST 2020.
- 9. ALL ELECTRICAL WORK SHOWN ON THIS SHEET MUST BE COMPLETED AND EQUIPMENT ENERGIZED BY OCTOBER 1, 2020.

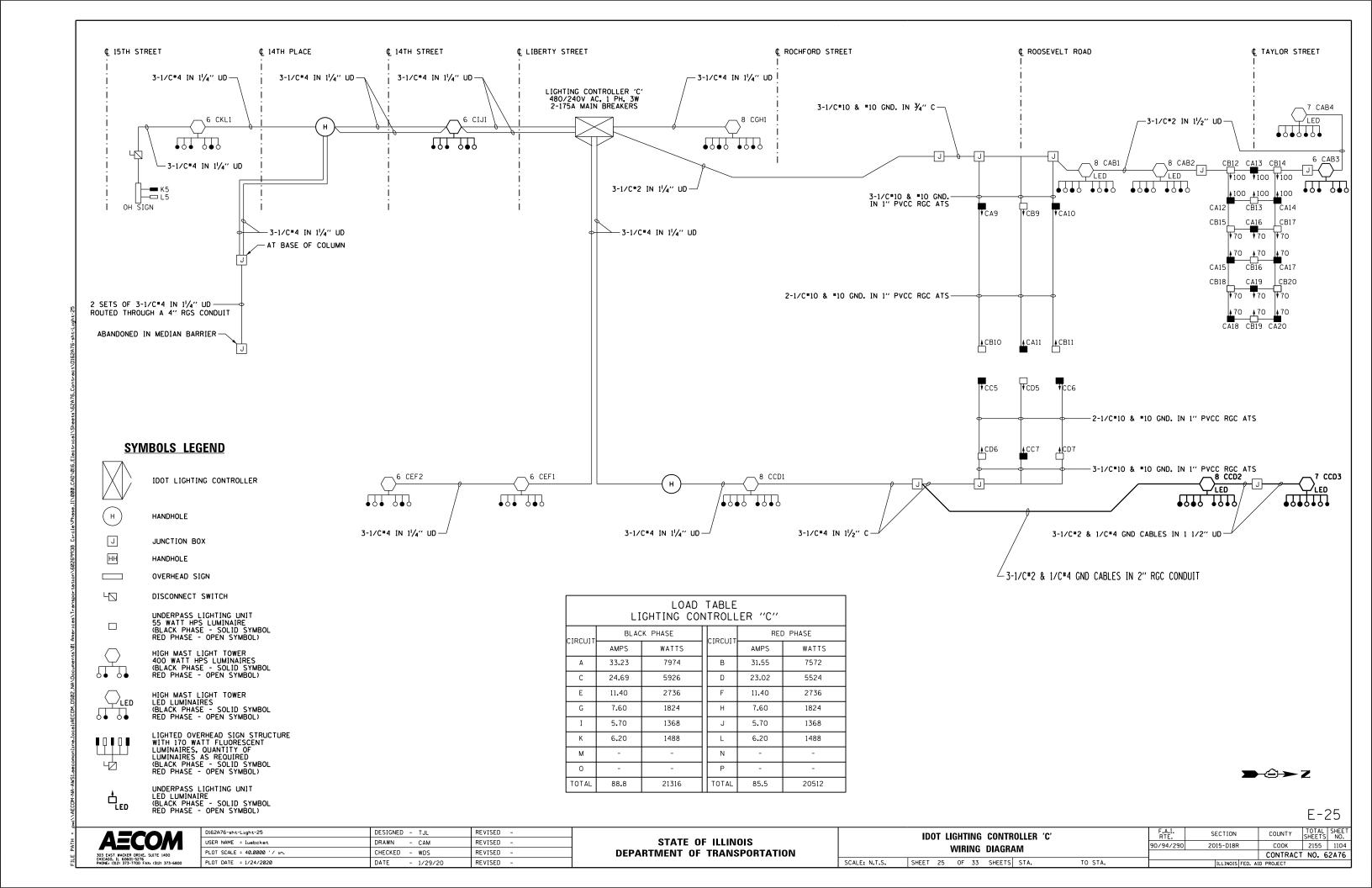


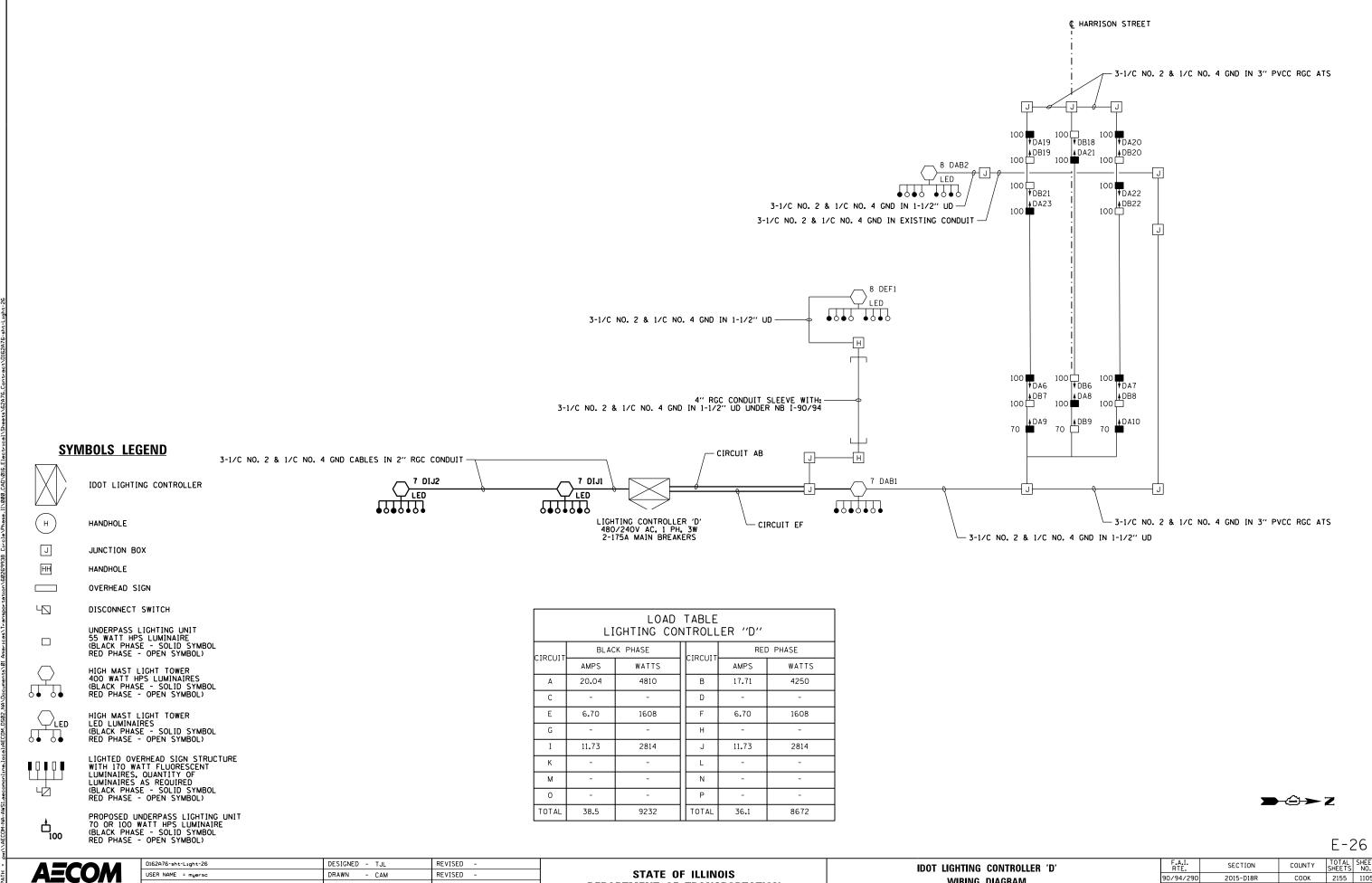


0162A76-Sht-Light-24	DESIGNED - TJL	REVISED -	
JSER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - WDS	REVISED -	
PLOT DATE = 1/23/2020	DATE - 1/29/20	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	IDO					IG PLAN ARKING	
SCALE: 1"=20"	SHEET	24	OF	33	SHEETS	STA.	TO STA.





DEPARTMENT OF TRANSPORTATION

PLOT SCALE = 40.0000 ' / in.

PLOT DATE = 1/23/2020

CHECKED - WDS

- 1/29/20

DATE

REVISED

REVISED -

COOK 2155 1105

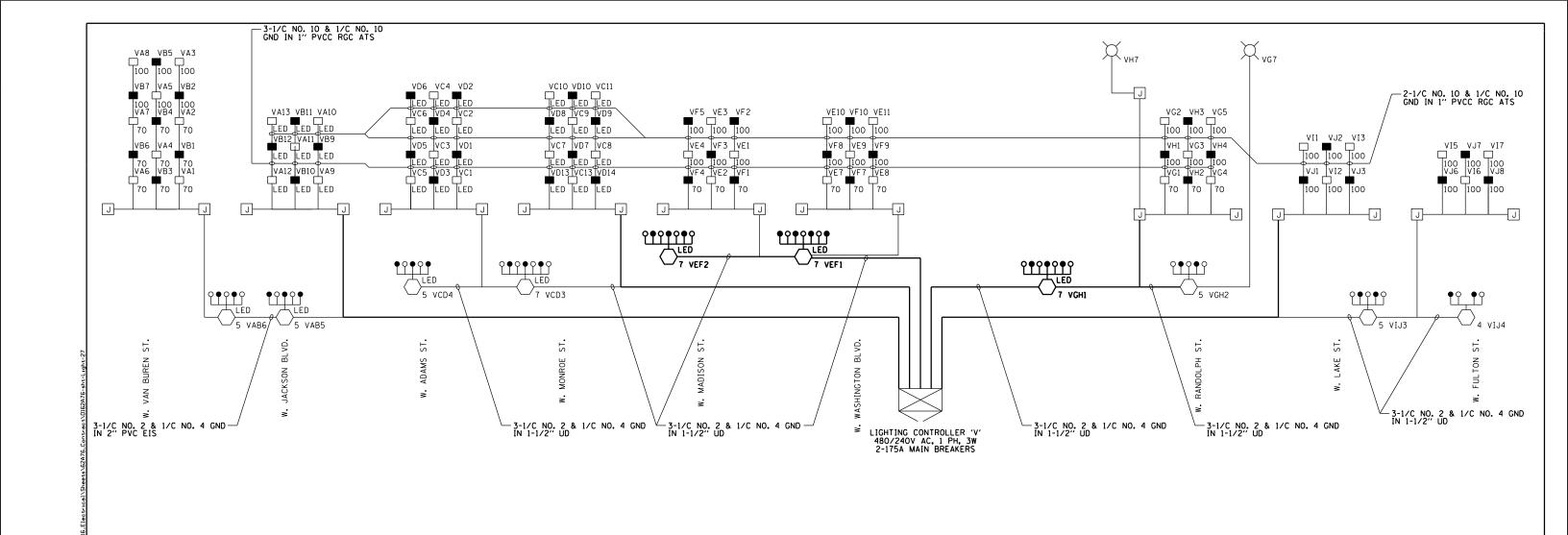
CONTRACT NO. 62A76

WIRING DIAGRAM

TO STA.

SHEET 26 OF 33 SHEETS STA.

SCALE: N.T.S.



SYMBOLS LEGEND

IDOT LIGHTING CONTROLLER

J JUNCTION BOX

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

UNDERPASS LIGHTING UNIT LED LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL) \Box_{LED}

HIGH MAST LIGHT TOWER 400 WATT HPS LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL) UNDERPASS LIGHTING UNIT 70 OR 100 WATT HPS LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)

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

LIGHTING CONTROLLER "V"											
IDCLIIT	BLAC	K PHASE	CIRCUIT	RED PHASE							
IRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS						
Α	15.1	3613	В	16.4	3930						
С	18.8	4500	D	17.7	4248						
E	20.6	4938	F	20.6	4938						
G	18.8	4502	Н	14.8	3541						
I	16.0	3839	J	14.1	3383						
К	-	-	L	-	-						
М	-	-	N	-	-						
0	-	-	Р	-	-						
TOTAL	89.1	21392	TOTAL	83.5	20040						

LOAD TABLE (240V)

→②→ Z

TO STA.

E-27

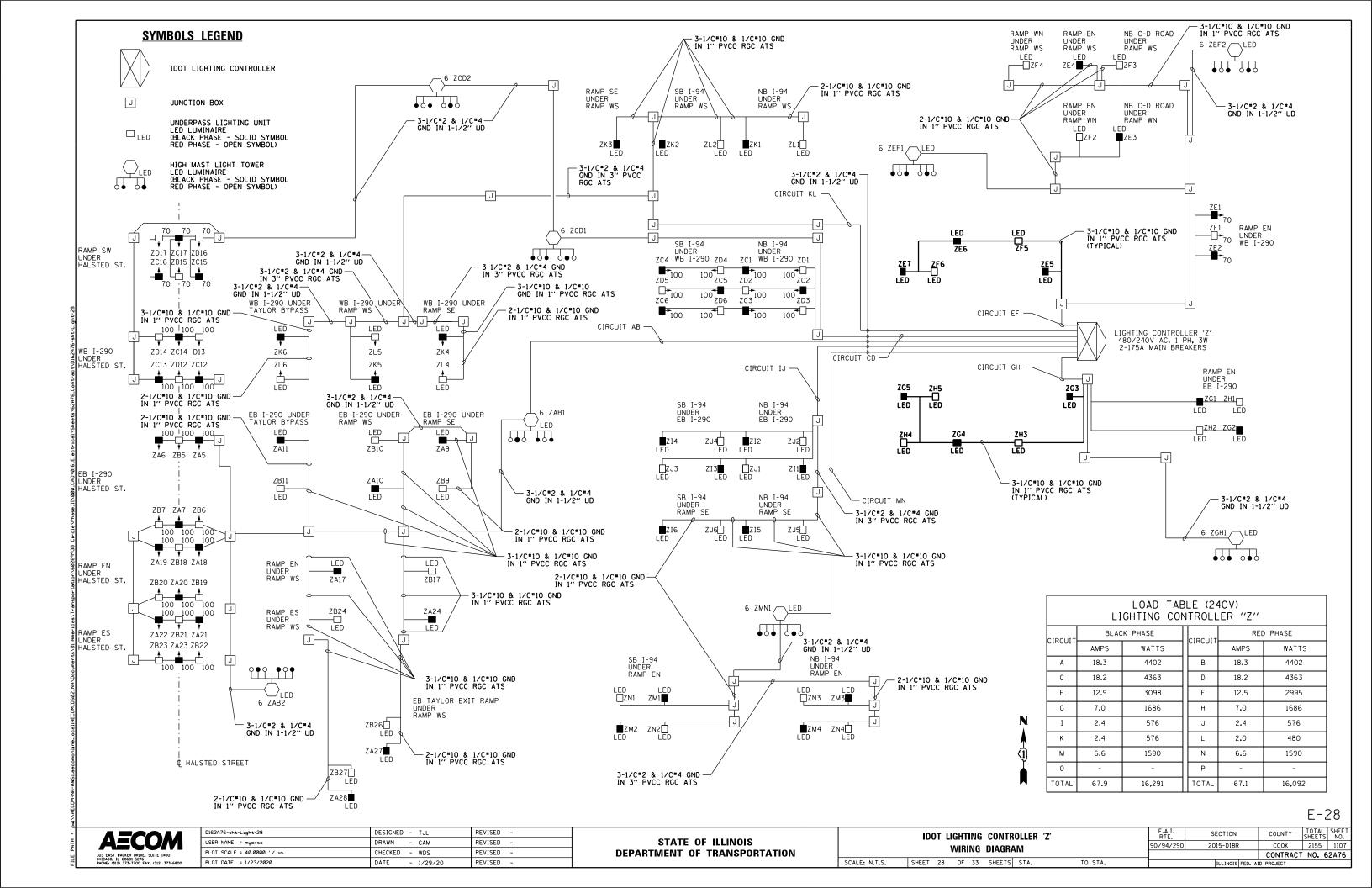


D162A76-sht-Light-27 DESIGNED - TJL REVISED -USER NAME = myersc DRAWN - CAM REVISED -PLOT SCALE = 40.0000 '/ in. CHECKED - WDS REVISED -PLOT DATE = 1/23/2020 DATE REVISED -- 1/29/20

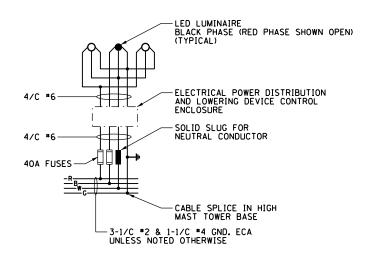
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IDOT LIGHTING CONTROLLER 'V' WIRING DIAGRAM SCALE: N.T.S. SHEET 27 OF 33 SHEETS STA.

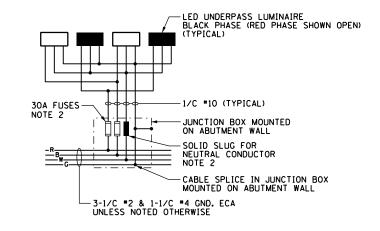
	ILLINOIS	FED. AI	D PROJECT		
			CONTRACT	NO. 6	2A76
90/94/290	2015-D18F	1	COOK	2155	1106
F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.



HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 3)												
HIGH MAST	HIGH MAST L	IGHT TOWER FOUND	DATION LOCATION	HIGH MAST LI	GHT TOWER FOUNDATIO	N ELEVATIONS	HIGH MAST					
LIGHT TOWER IDENTIFICATION	STATION	OFFSET	BASELINE	TOP ELEVATION	BOTTOM ELEVATION	DESIGN DEPTH (FT)	TOWER HEIGHT		REMARKS AND NOTES			
8 CCD2	6108+00.00	141.07 RT	NB I-90/94	593.66	538.66	55	130					
7 CCD3	6112+50.38	151.00 RT	NB I-90/94	594.10	534.10	60	130					
7 DIJ2	6118+53.76	127 . 97 RT	NB I-90/94	596.10	541.10	55	130					
7 DIJ1	6122+85.16	117.74 RT	NB I-90/94	596.10	541.10	55	130					
7 VEF2	6155+94.52	130 . 50 RT	NB I-90/94	583.25	533.25	50	130					
7 VEF1	6160+68.78	109.34 RT	NB I-90/94	584.76	529.76	55	130					
7 VGH1	6165+78.39	102 . 00 RT	NB I-90/94	585.91	535.91	50	130					



TYPICAL HIGH MAST LIGHT TOWER WIRING DIAGRAM NOT TO SCALE



TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM NOT TO SCALE

NOTES:

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.
- 3. THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH (D) TABLE" SHOWN ON IDOT STANDARDS BE-506 AND BE-511.

E-29

4. SEE IDOT STANDARDS BE-506 AND BE-511 FOR LIGHT TOWER FOUNDATION DETAILS.

AECOM

303 EAST. WACKER DRIVE. SUITE 1400
CHICAGO. II. 60601-5276
PHODE: 1012 373-7700 FAX; 1312) 373-6800

D162A76-sht-Light-29	DESIGNED - TJL	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - WDS	REVISED -	
PLOT DATE = 1/23/2020	DATE - 1/29/20	REVISED -	

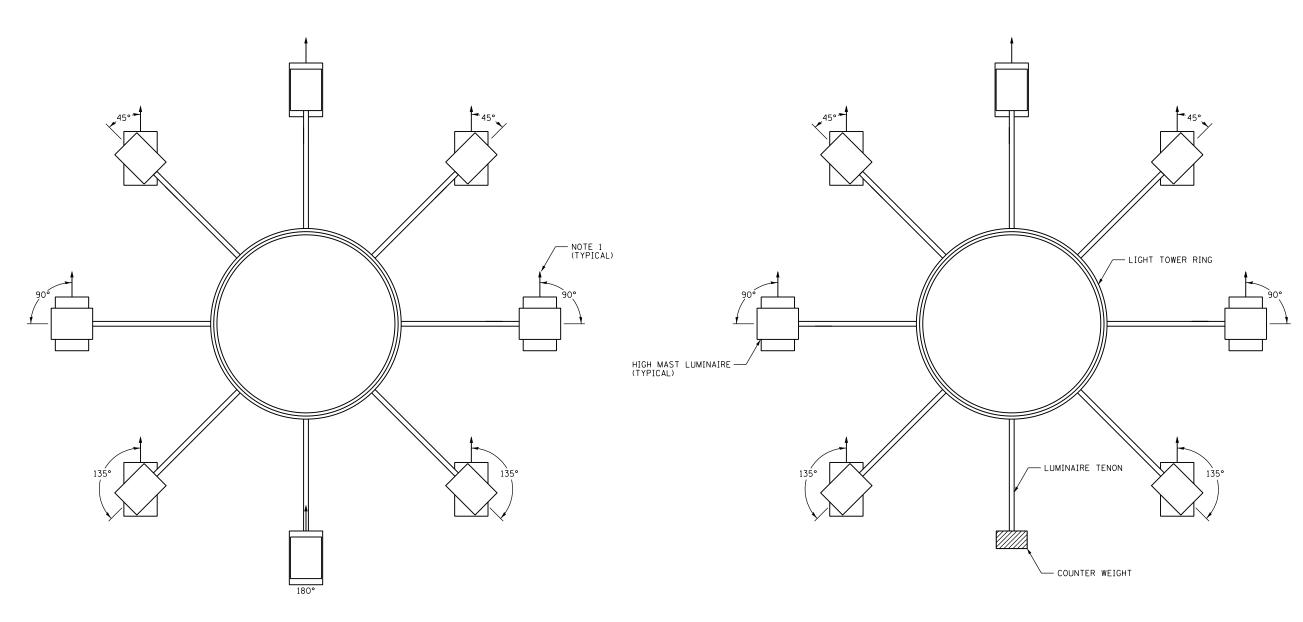
ELECTRICAL DETAILS								F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		EI	LECT	RICA	AL DETA	AILS		90/94/290	2015-D18R	COOK	2155	1108
										CONTRACT	NO. 6	2A76
CALE: N.T.S.	E: N.T.S. SHEET 29 OF 33 SHEETS STA. TO STA.						ILLINOIS FED. AI	D PROJECT				

NB I-90/94 NOTE 2

EDGE OF PAVEMENT

NOTE 2

EDGE OF PAVEMENT



8 LUMINAIRE RING - 8 LUMINAIRES 8 CCD2 8 LUMINAIRE RING - 7 LUMINAIRES 7 CCD3, 7 DIJ2, 7 DIJ1, 7 VEF2, 7 VEF1, 7 VGH1

VIEW LOOKING FROM TOP OF LIGHT TOWERS

NOTES:

- 1. LUMINAIRE DISTRIBUTION PATTERN DIRECTION AS INDICATED BY ARROW.
- 2. ROTATE THE LUMINAIRES TOWARDS THE ROADWAY AS SHOWN.

AECOM
303 EAST WACKER DRIVE. SUITE 1400
CHICAGO. II. 60601-5276
PHONE: 1312 373-7700 FAX: 13121 373-6800

 DI62A76-sht-Light-30
 DESIGNED
 - TJL
 REVISED

 USER NAME = myersc
 DRAWN
 - CAM
 REVISED

 PLOT SCALE = 40.0000 ' / in.
 CHECKED
 - WDS
 REVISED

 PLOT DATE = 1/23/2020
 DATE
 - 1/29/20
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER LUMINAIRE ORIENTATION

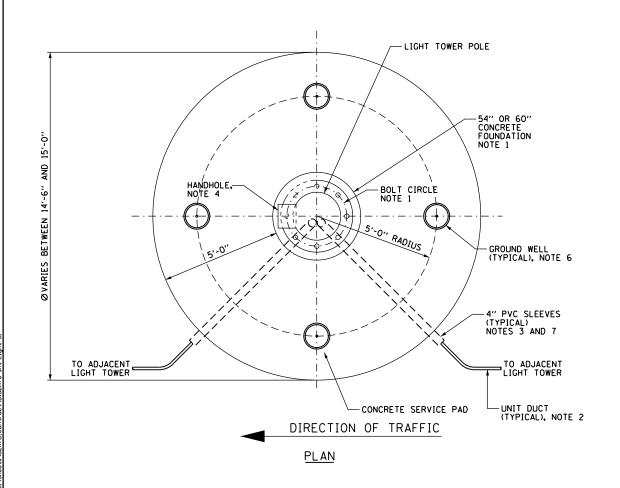
SCALE: N.T.S. SHEET 30 OF 33 SHEETS STA. TO STA

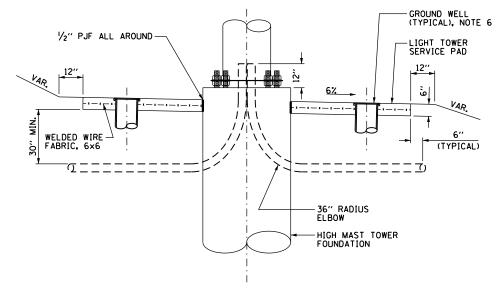
F.A.I. RTE. SECTION COUNTY SHEETS NO.

90/94/290 2015-D18R COOK 2155 1109

CONTRACT NO. 62A76

E-30



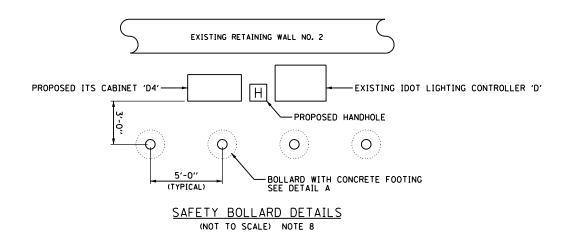


GROUND MOUNTED HIGH MAST TOWER SERVICE PAD,

GROUNDING AND CONDUIT INSTALLATION DETAILS

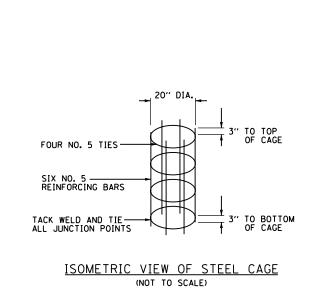
NOT TO SCALE

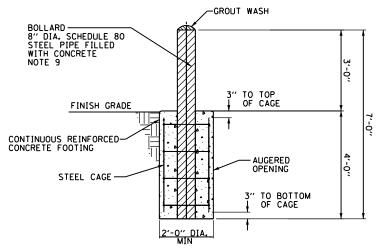
ELEVATION - SHOWN WITHOUT CURB



NOTES:

- 1. SEE IDOT STANDARD DRAWING BE-506 AND BE-511 FOR ADDITIONAL HIGH MAST LIGHT TOWER FOUNDATION AND GROUND WELL DETAILS.
- SEE ELECTRICAL PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF RACEWAY AND LIGHTING CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER FOUNDATION.
- 3. PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD.
- 4. THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
- 5. ALL EMPTY SLEEVES MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.
- 6. INSTALL GROUND WELLS 5'-O" AS MEASURED FROM THE CENTER LINE OF THE HIGH MAST TOWER TO THE CENTER LINE OF THE WELL.
- PVC CONDUIT SLEEVES SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- 8. THE CONTRACTOR SHALL STAKE THE FINAL LOCATIONS OF THE BOLLARDS IN THE FIELD FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK.
- THE BOLLARDS SHALL BE PAINTED. COLOR SHALL BE SAFETY YELLOW.





DETAIL - A

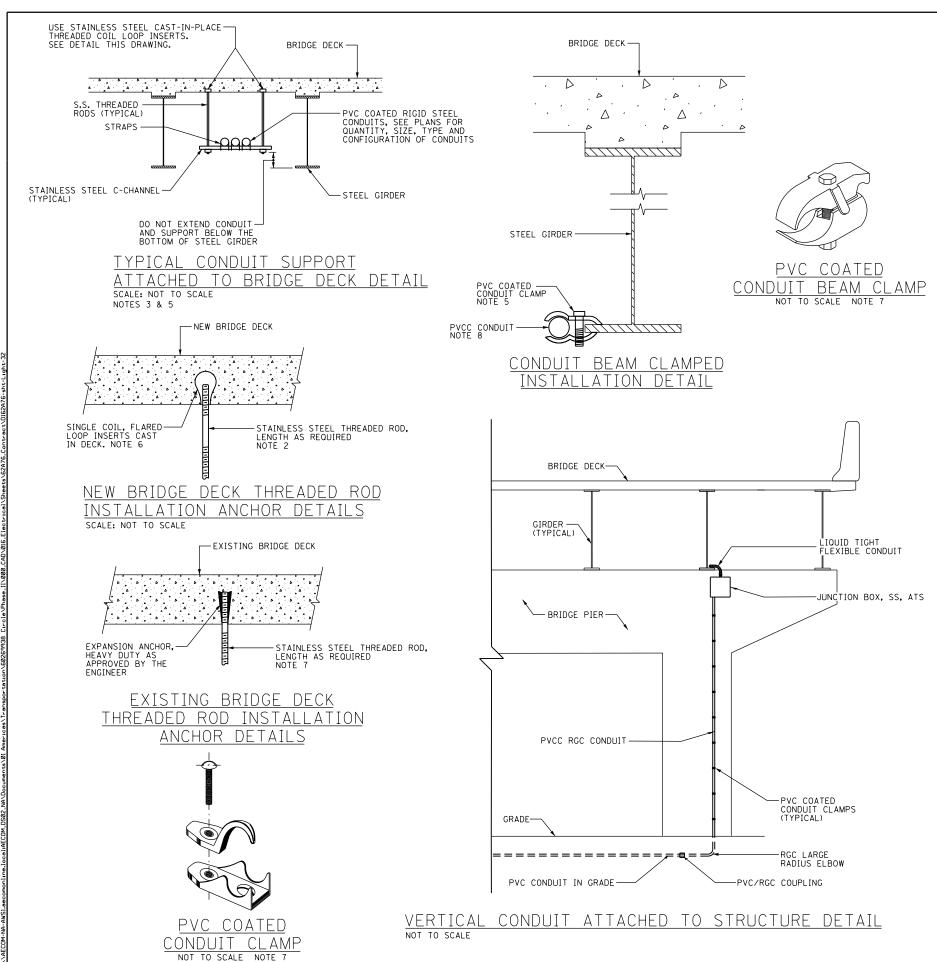
AECOM
303 EAST WAKER DRIVE, SUITE 1400
HICAGO, IL 60601-5276

162A76-sht-Light-31	DESIGNED - TJL	REVISED -
SER NAME = myersc	DRAWN - CAM	REVISED -
LOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -
LOT DATE = 1/23/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

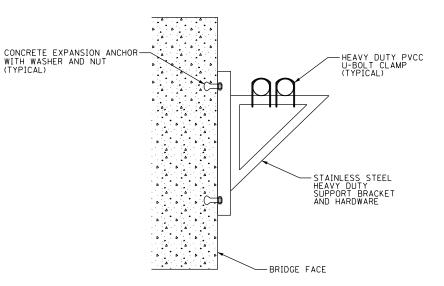
LIGHT	T TOWE	R	SERVICE	PAD A	AND COND	UIT DETAILS
SCALE: N.T.S.	SHEET	31	OF 33	SHEETS	STA.	TO STA.

E-31

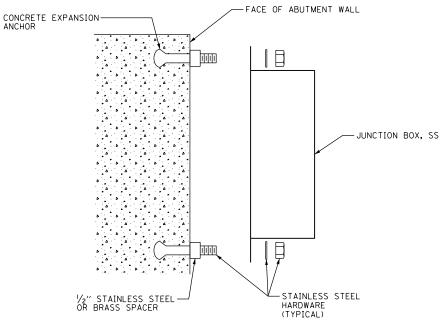


- 1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR MUST COORDINATE THREADED ROD END SIZES WITH THE C-CHANNEL AND FLARED LOOP INSERT MANUFACTURERS.
- 3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
- 4. SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- 5. ALL MOUNTING HARDWARE FOR THE PVCC RGC CONDUIT MUST BE PVC COATED.

- 6. THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING THREADED RODS TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE INSERT LOCATIONS IN THE FIELD AND COORDINATING ALL WORK WITH THE BRIDGE DECK CONSTRUCTION.
- 7. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
- 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



MOUNTING BRACKET FOR MULTIPLE CONDUITS
NOT TO SCALE



JUNCTION BOX MOUNTED TO STRUCTURE

AECOM
303 EAST WACKER DRIVE, SUITE 1400
(HICAGO, IL 60601-5276

 D162A76-sht-Light-32
 DESIGNED - TUL
 REVISED

 USER NAME = myersc
 DRAWN - CAM
 REVISED

 PLOT SCALE = 40.0000 ' / in.
 CHECKED - WDS
 REVISED

 PLOT DATE = 1/23/2020
 DATE - 1/29/20
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS

SHEET 32 OF 33 SHEETS STA. TO STA.

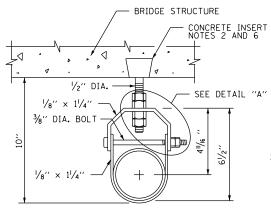
SCALE: N.T.S.

F.A.I. SECTION COUNTY TOTAL SHEETS NO. 90/94/290 2015-D18R COOK 2155 1111

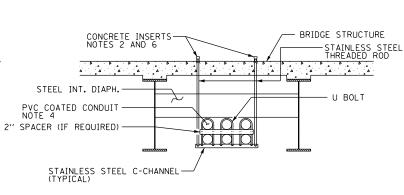
CONTRACT NO. 62A76

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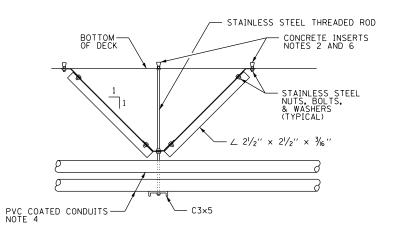
E-32





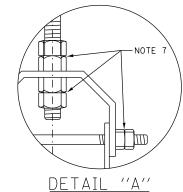


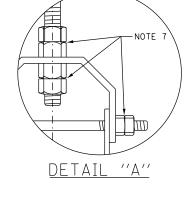
CONDUIT SUPPORT ATTACHED TO BRIDGE WITH DIAPHRAGM DETAIL NOTES 2 AND 3

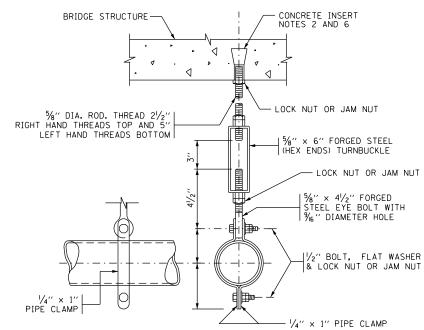


CENTERING DEVICE DETAIL - SIDE VIEW

(LOCATED ONLY ON A HANGER ADJACENT TO PIER)

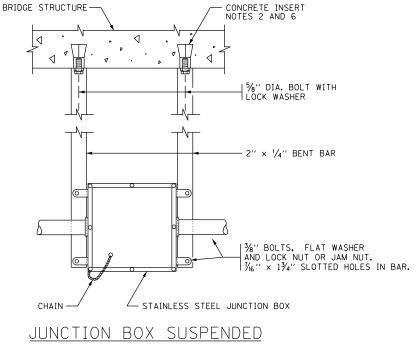




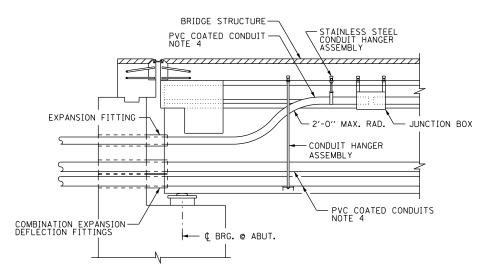


HANGER ASSEMBLY

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



STRUCTURE DETAILS NOTE 5



LONGITUDINAL SECTION

- 1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
- 2. SEE DRAWING E-32 FOR ADDITIONAL CONDUIT MOUNTING DETAILS AND FOR DETAILS REGARDING THE INSTALLATION OF CONCRETE INSERTS.
- 3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
- 4. SEE THE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- 5. THE JUNCTION BOX SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND ALL MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE" PAY ITEM.
- 6. SPACE INSERTS AT 10 FOOT (MAXIMUM) CENTERS.
- 7. PROVIDE STAINLESS STEEL DOUBLE NUTS, JAM NUTS OR LOCK NUTS FOR THIS INSTALLATION.
- 8. PROVIDE CONDUIT SLEEVES IN THE BRIDGE ABUTMENT AS REQUIRED TO ROUTE THE CONDUITS THROUGH THE STRUCTURE AS SHOWN. THE DIAMETER OF THE SLEEVES SHALL BE A MINIMUM OF 2 INCHES LARGER IN DIAMETER THAN THE DIAMETER OF THE CONDUIT. PROVIDE WATERPROOF SEALANT IN THE INTERSTITIAL SPACE BETWEEN THE SLEEVE AND THE CONDUIT.

D162A76-sht-Light-33	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / 10.	CHECKED - WDS	REVISED -
PLOT DATE = 1/23/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	MISCELLANEOUS ELECTRICAL DETAILS							F.A.I. RTE.	S	ECTION		COUNTY	
								90/94/290	20	015-D18R		COOK	
													CONTR
	SCALE: N.T.S.	SHEET	33	OF	33	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT

E - 33

CONTRACT NO. 62A76

COUNTY

SEQUENCING NOTES:

- 1. IMPLEMENTATION OF INTELLIGENT TRANSPORTATION SYSTEMS (ITS) TO BE PERFORMED IN COORDINATION WITH CONCURRENT CONTRACTS 60X79, 60X93, 62J31, 60Y00, 62A77, AND 60X94. THESE CONTRACTS REMOVE EXISTING ITS ELEMENTS AND INSTALL CONDUIT, HANDHOLES/JUNCTION BOXES, ITS CABINETS, CABLING, ITS DEVICE STRUCTURES, AND OTHER INFRASTRUCTURE THAT MUST BE COORDINATED WITH WORK DESCRIBED HEREIN. STAGES REFERENCED IN THESE PLANS CORRELATES TO STAGES OF CONSTRUCTION FROM THE CONCURRENT CONTRACTS.
- 2. IN GENERAL, ITS EQUIPMENT IDENTIFIED FOR REMOVAL OR SALVAGING TO BE REMOVED/SALVAGED IN THE CONSTRUCTION STAGE THAT INCLUDES WORK AROUND THE ITS SITE. LIKEWISE, ITS INFRASTRUCTURE INSTALLATION TO TAKE PLACE IN THE CONSTRUCTION STAGE THAT INCLUDES WORK AROUND THE ITS SITE.
- 3. EIBER OPTIC TRUNKLINE. ATTACHED CONDUIT AND 96 SINGLE MODE FIBER (SMF) OPTIC CABLE BETWEEN 16TH STREET AND PUMP STATION #29 TO BE INSTALLED AND MADE OPERATIONAL BEFORE REMOVAL OF THE EXISTING COMMUNICATIONS CABLE IN THE I-90/94 MEDIAN WALL (SEE SHEETS ITS-17 TO ITS-21). THE EXISTING COMMUNICATIONS CABLE WILL NEED TO BE REMOVED TO ALLOW FOR INSTALLATION OF NEW SIGN TRUSS FOUNDATIONS NEAR CANALPORT AND 16TH STREET (SEE SIGNING PLANS) AND FOR REMOVAL OF MEDIAN BARRIER WALL.
- 4. EXISTING DMS-10 (SQUITHBOUND). INSTALL AERIAL POWER AND COMMUNICATIONS CABLE TO DMS-10 (SEE SHEET ITS-09 AND ITS-39). THIS WORK INVOLVES RECONFIGURATION OF POWER AND COMMUNICATION LINKS TO THE DMS AND MUST BE PERFORMED AFTER THE FOLLOWING RELATED WORK:
- A) REPLACE FIBER OPTIC LINK BETWEEN 96 SMF DISTRIBUTION CABLE AND PUMP STATION #26 (BY OTHERS IN CONTRACT 62A77).
- B) REMOVE 12 SMF BETWEEN THE HANDHOLE NEAR STA 6244+50 AND PUMP STATION #26 TO PROVIDE A PATH FROM DMS-10 TO CABINET C3. INSTALL NEW 12 SMF FROM DMS-09 TO CABINET C3 (SEE SHEET ITS-09). C) INSTALL FIBER OPTIC TERMINATION PANEL IN CABINET C3, TERMINATING 12 SMF FROM DMS-10. INSTALL AND SPLICE NEW FIBER OPTIC LATERAL FOR CABINET C3 TO SUPPORT PROPOSED COMMUNICATION LINK TO DMS-10 (SEE
- 5. IEMPORARY DMS-10. BEFORE REMOVAL OF EXISTING DMS-10 IN THE MEDIAN, INSTALL NEW OVERHEAD SIGN TRUSS WITH DMS AT STA 6245+25 (ALL BY OTHERS IN CONTRACT 62A77). DOWNTIME BETWEEN THE OPERATION OF EXISTING, TFMPORARY. AND PERMANENT DMS-10 TO BE MINIMIZED (SEE NOTE 6 BELOW).
- 6. WORK THAT IMPACTS THE NORMAL OPERATION OF THE TRAFFIC MANAGEMENT OR COMMUNICATIONS SYSTEMS SHALL ONLY BE EXECUTED ON WEEKENDS FROM 10 PM FRIDAY EVENING TO 4 AM MONDAY MORNING. HOLIDAYS AND SPECIAL EVENT WEEKENDS SHALL BE EXCLUDED. THE CONTRACTOR SHALL COORDINATE AND RECEIVE PRIOR APPROVAL FROM THE ENGINEER FOR ALL WORK THAT COULD DEGRADE OR IMPAIR THE OPERATIONAL SYSTEMS. REQUESTS FOR APPROVAL SHALL BE MADE TO THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO THE ACTUAL COMMENCEMENT OF

GENERAL NOTES:

- 1. EXISTING/TEMPORARY ITS 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. PROPOSED ITS SHEETS ALSO SHOW ITS INFRASTRUCTURE INSTALLED BY OTHERS IN CONCURRENT CONTRACTS AS EXISTING, WITH THE APPLICABLE CONTRACT NUMBER LISTED IN PARENTHESIS.
- 2. NOTATION FOR THE EXISTING/TEMPORARY ITS SHEETS IS AS FOLLOWS: - MAINTAINED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED THROUGH THE CONTRACT PERIOD (UNLESS OTHERWISE NOTED). THIS WORK IS TO BE PERFORMED UNDER THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- REMOVED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT. ITEM(S) TO BE REMOVED AND DISPOSED. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING SURVEILLANCE EQUIPMENT" PAY ITEM.
- SALVAGED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT. ITEM(S) TO BE REMOVED AND TURNED OVER TO IDOT DISTRICT 1. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING SURVEILLANCE
- ABANDONED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT.
- 3. THE EXISTING ITS INFRASTRUCTURE, AS DEPICTED ON THE PLANS, IS INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY, AND LOCATION OF THE EXISTING ITS EQUIPMENT IN THE FIELD. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ITS EQUIPMENT IN THE FIELD AND THE EXISTING ITS EQUIPMENT AS DEPICTED SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS, AND DETAILS OF THE EXISTING ITS EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING SAFE, COMPLETE, AND FULLY FUNCTIONAL ITS INFRASTRUCTURE.
- 4. LOCATIONS SHOWN FOR PROPOSED ITS INFRASTRUCTURE ARE DIAGRAMMATIC ONLY, UNLESS STATIONING AND OFFSET VALUES ARE PROVIDED. FINAL LOCATIONS FOR PROPOSED ITS ITEMS SHALL BE AS APPROVED BY THE

ABBREVIATIONS:

ATTACHED TO STRUCTURE CCTV CLOSED-CIRCUIT TELEVISION DIA EIS DIAMETER

EMBEDDED IN STRUCTURE

ENC ENCASED IN CONCRETE, REINFORCED

GS HDHH ITS GALVANIZED STEEL

HEAVY-DUTY HANDHOLE INTELLIGENT TRANSPORTATION SYSTEM

JB PVC JUNCTION BOX

POLYVYNAL CHLORIDE

PVCC GS SS SMF PVC COATED GALVANIZED STEEL STAINLESS STEEL

SINGLE MODE FIBER

UNDERGROUND

WVDS WIRELESS VEHICLE DETECTION SYSTEM

RVSD RADAR VEHICLE SENSING DEVICE

D162A76-SHT-ITS-01	DESIGNED - PTJ	REVISED -
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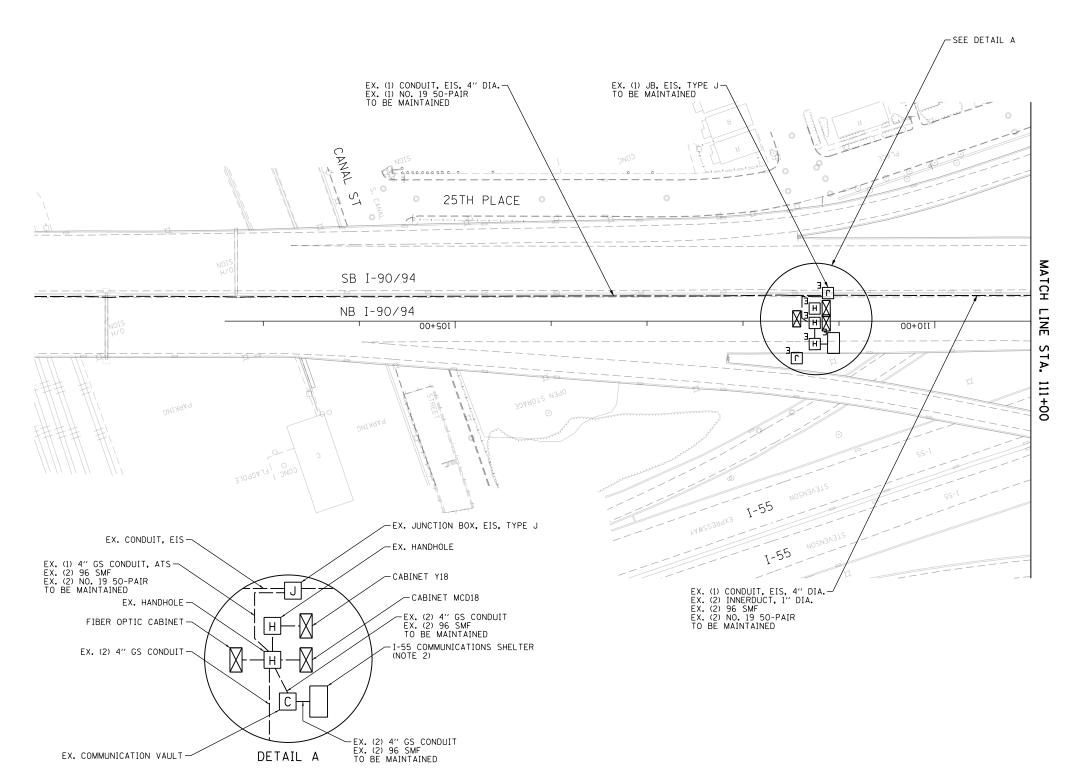
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

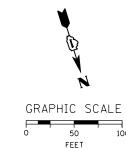
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	SHEET	1	OF	70	SHEETS	STA.	TO STA.

SCALE: N.T.S

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F.A.I. RTE.	s	ECTION		COUNTY	TOTAL SHEETS	SHEE NO.
90/94/290	20	15-D18R	?	соок	2155	1113
				CONTRA	CT NO. 6	52A76
		ILLINOIS	FED. A	AID PROJECT		

- 1. MAINTAIN THE EXISTING IDOT ITS EQUIPMENT THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- 2. CONTRACTOR TO COORDINATE WITH THE TRAFFIC SYSTEMS CENTER ENGINEER FOR FIBER OPTIC CABLE ASSIGNMENTS IN THE I-55 COMMUNICATION SHELTER.





ITS-02

AECOM

SOS EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 66661-5276
PRIODE: 61321-373-7700 FAX: 13121 373-6800

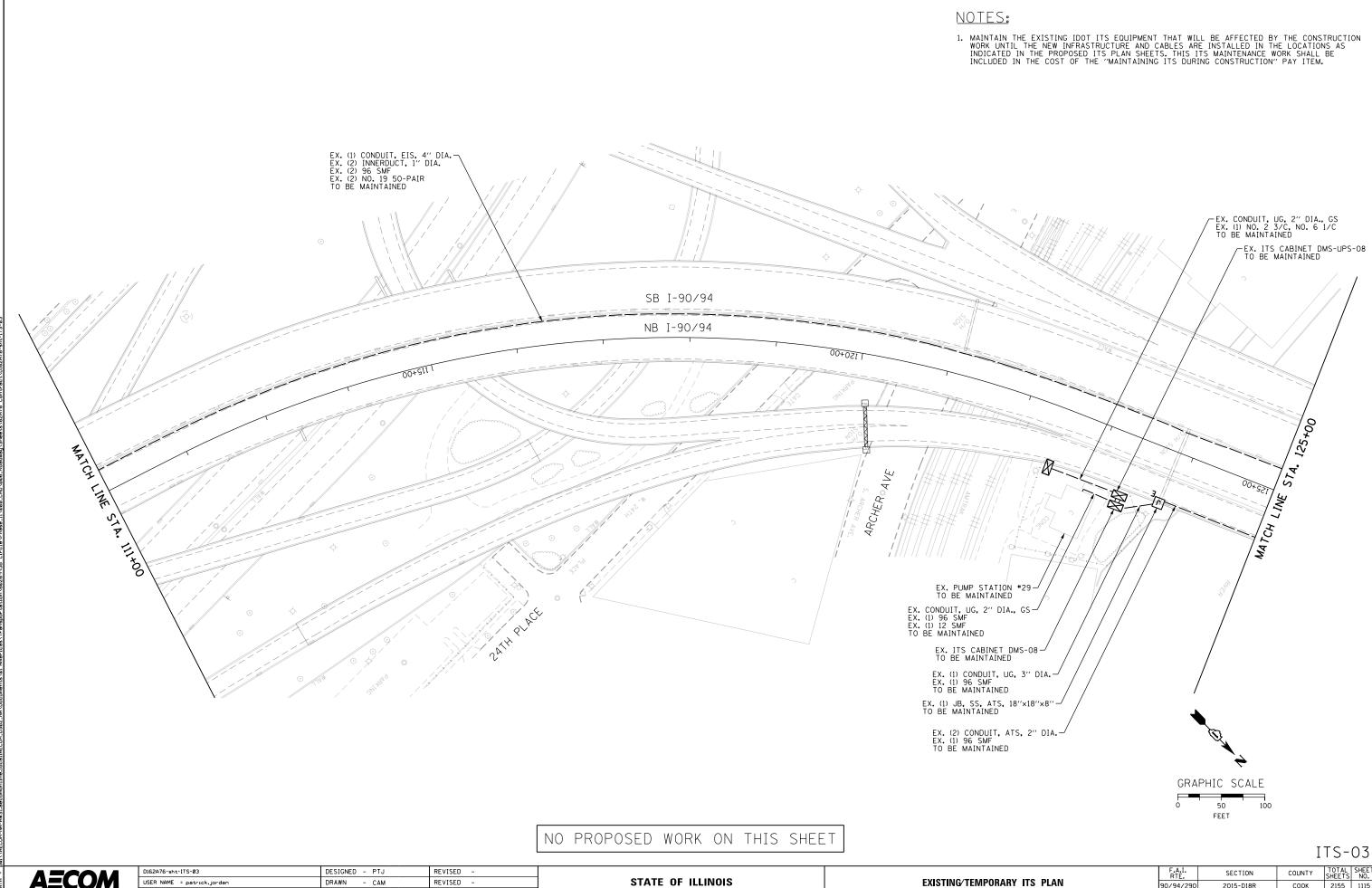
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/TEMPORARY ITS PLAN

SCALE: 1"=50" SHEET 2 OF 70 SHEETS STA.

TO STA. 111+00



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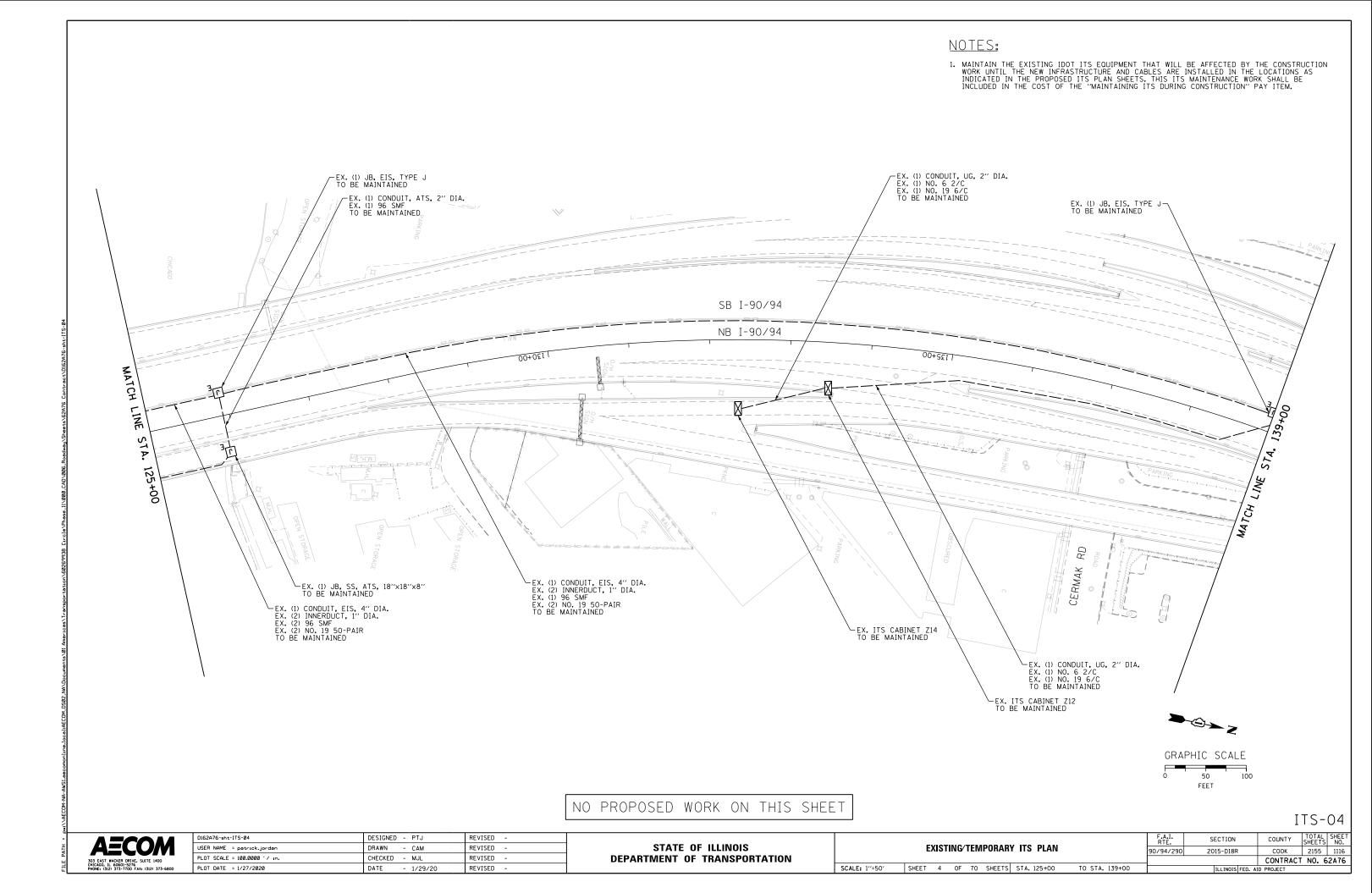
DEPARTMENT OF TRANSPORTATION

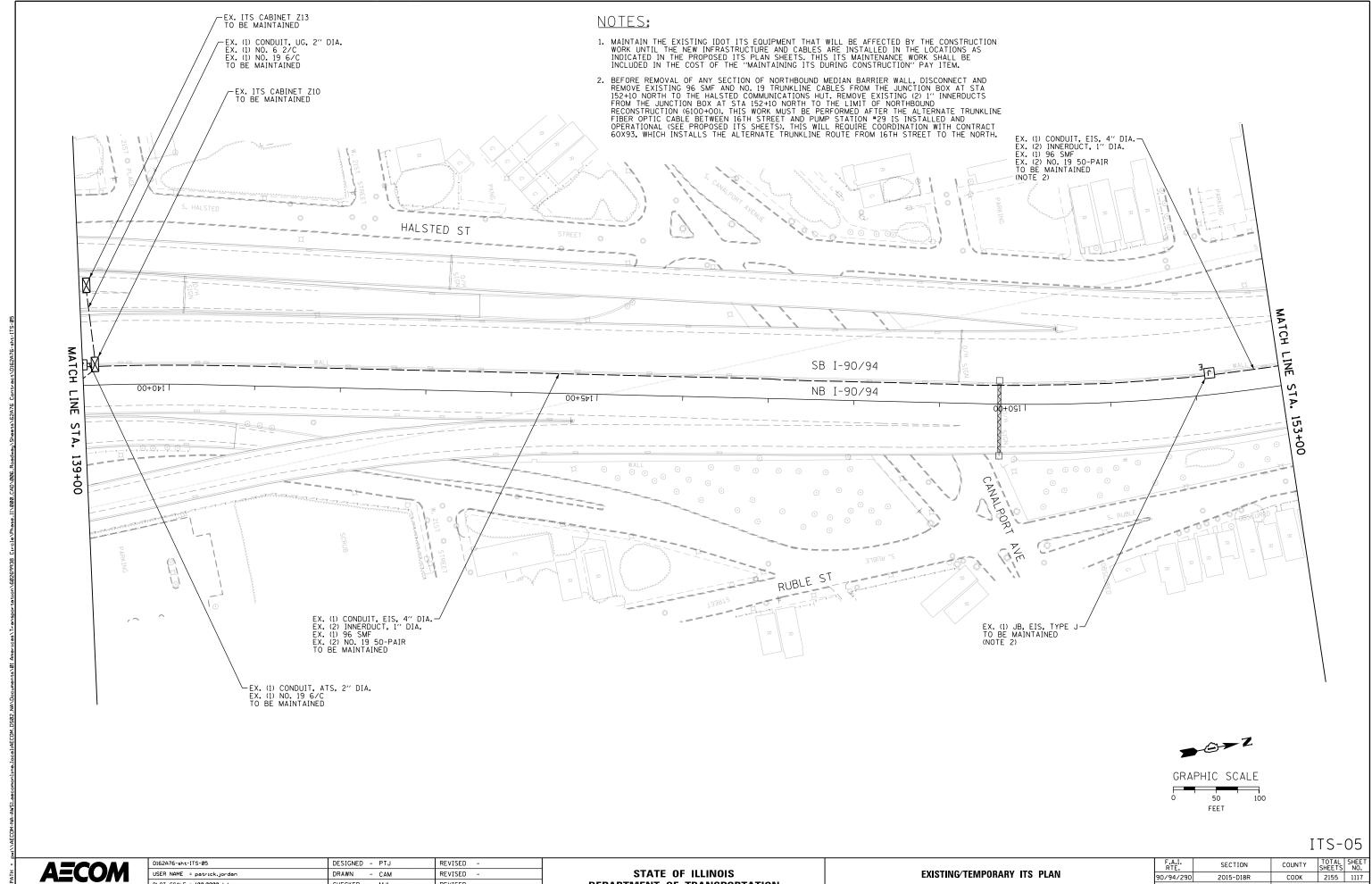
EXISTING/TEMPORARY ITS PLAN SCALE: 1"=50" SHEET 3 OF 70 SHEETS STA. 111+00 90/94/290 2015-D18R

TO STA. 125+00

COUNTY TOTAL SHEET NO.

COOK 2155 1115 CONTRACT NO. 62A76



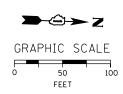


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DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50" SHEET 5 OF 70 SHEETS STA. 139+00 TO STA. 153+00 CONTRACT NO. 62A76

- 1. MAINTAIN THE EXISTING IDOT ITS EQUIPMENT THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- 2. BEFORE REMOVAL OF ANY SECTION OF NORTHBOUND MEDIAN BARRIER WALL, DISCONNECT AND REMOVE EXISTING 96 SMF AND NO. 19 TRUNKLINE CABLES FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE HALSTED COMMUNICATIONS HUT. REMOVE EXISTING (2) 1" INNERDUCTS FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE LIMIT OF NORTHBOUND RECONSTRUCTION (6100+00). THIS WORK MUST BE PERFORMED AFTER THE ALTERNATE TRUNKLINE FIBER OPTIC CABLE BETWEEN 16TH STREET AND PUMP STATION "29 IS INSTALLED AND OPERATIONAL (SEE PROPOSED ITS SHEETS). THIS WILL REQUIRE COORDINATION WITH CONTRACT 60X93, WHICH INSTALLS THE ALTERNATE TRUNKLINE ROUTE FROM 16TH STREET TO THE NORTH.



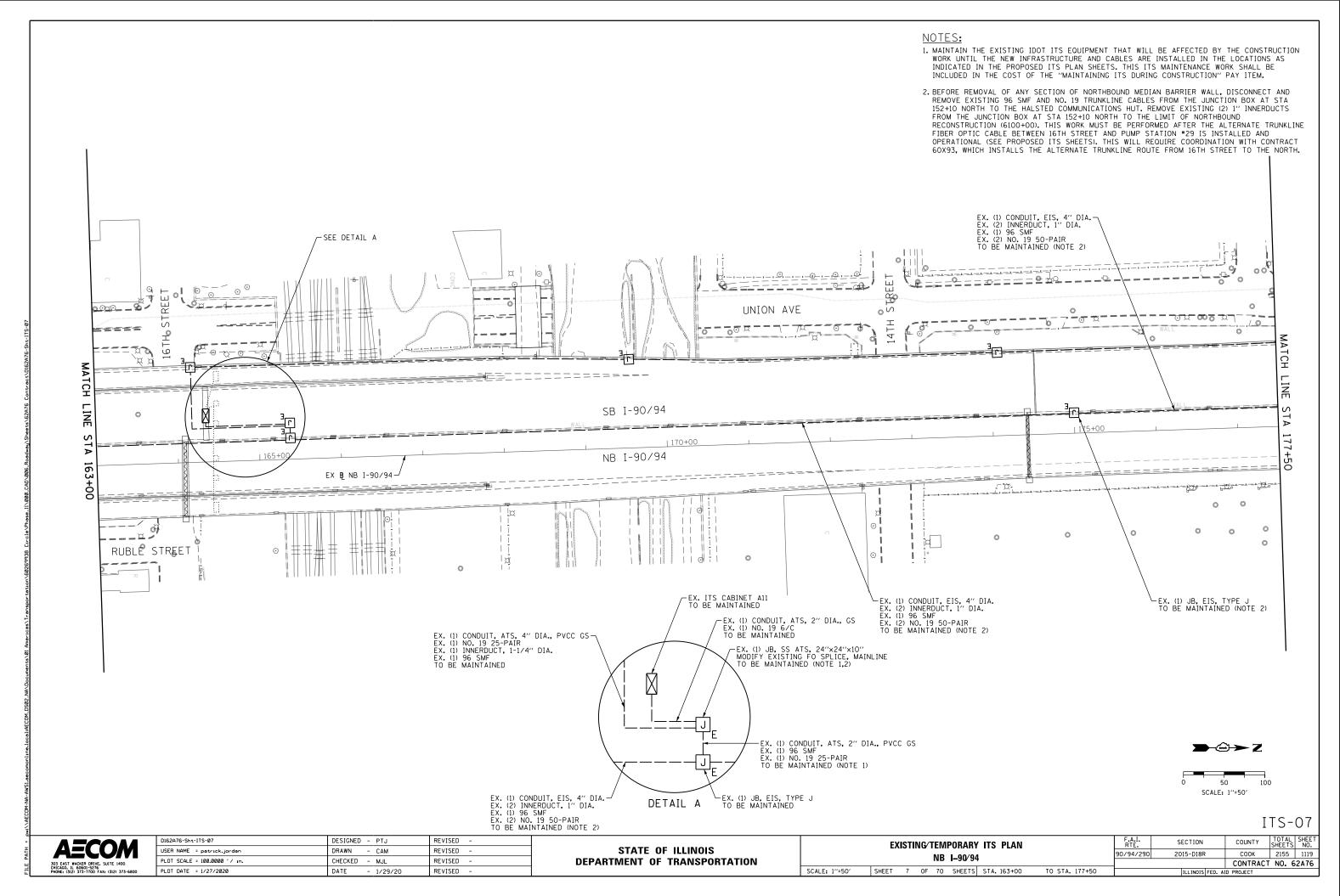
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303 EAST WACKER ORIVE. SUITE 1400
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STATE	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	V

EVICTING (TELEPOPARY ITS DIAM								RTE.
EXISTING/TEMPORARY ITS PLAN								
SCALE: 1"=50"	SHEET	6	OF	70	SHEETS	STA. 153+00	TO STA. 163+00	

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90/94/290	2015-D18R	!	соок	2155	1118
			CONTRACT	NO. 6	2A76
	ILLINOIS	FED. A	ID PROJECT		





- 1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- 2. BEFORE REMOVAL OF ANY SECTION OF NORTHBOUND MEDIAN BARRIER WALL, DISCONNECT AND REMOVE EXISTING 96 SMF AND NO. 19 TRUNKLINE CABLES FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE HALSTED COMMUNICATIONS HUT. REMOVE EXISTING (2) 1" INNERDUCTS FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE LIMIT OF NORTHBOUND RECONSTRUCTION (6100+00). THIS WORK MUST BE PERFORMED AFTER THE ALTERNATE TRUNKLINE FIBER OPTIC CABLE BETWEEN 16TH STREET AND PUMP STATION #29 IS INSTALLED AND OPERATIONAL (SEE PROPOSED ITS SHEETS). THIS WILL REQUIRE COORDINATION WITH CONTRACT 60X93, WHICH INSTALLS THE ALTERNATE TRUNKLINE ROUTE FROM 16TH STREET TO THE NORTH.
- 3. ALL EXISTING CONDUIT AND JUNCTION BOXES EMBEDDED IN AN EXISTING WALL TO BE REMOVED SHALL BE REMOVED AS PART OF THE WALL REMOVAL PAY ITEMS, UNLESS OTHERWISE NOTED. - 4. MAINTAIN FIBER OPTIC LINK TO PUMP STATION *26 UNTIL NEW LINK IS ESTABLISHED. THIS WILL REQUIRE COORDINATION WITH CONTRACT 62A77 WHICH INSTALLS THE NEW LINK.
- 5. DISCONNECT AND REMOVE EXISTING POWER AND COMMUNICATION CABLES BETWEEN CABINET C8
 AND CABINET C5. CONDUIT BETWEEN CABINETS TO REMAIN. SALVAGE EXISTING CABINET C8 AND
 EQUIPMENT AND REMOVE EXISTING CONCRETE FOUNDATION, PROTECTING CONDUIT AND LEAD-IN
- CABLE AT THIS LOCATION FOR FUTURE INTERCEPTION (SEE PROPOSED ITS SHEETS).
- UNION AVE P

- - EX & NB I-90/94-

 - EX. (1) CONDUIT, EIS, 4" DIA.-EX. (2) INNERDUCT, 1" DIA. EX. (1) 96 SMF EX. (2) NO. 19 50-PAIR TO BE MAINTAINED (NOTE 2)
- EX. (1) CONDUIT, ATS, 2" DIA., GS-EX. (1) NO. 6 2/C EX. (1) NO. 19 6/C TO BE REMOVED (NOTE 5)

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EX. DETECTOR LOOPS TO BE MAINTAINED

- EX. ITS CABINET C8
 TO BE SALVAGED
 EX. CONCRETE FOUNDATION
 TO BE REMOVED (NOTE 5)

RUB/E/

-EX. LIGHTING CONTROLLER C

EX. ITS CABINET C5-

- EX. CONDUIT, UG, 2" DIA., GS NO. 14, 2/C TO BE MAINTAINED

0 00

- -EX. (1) CONDUIT, EIS, 4" DIA. EX. (2) INNERDUCT, 1" DIA. EX. (1) 96 SMF EX. (2) NO. 19 50-PAIR TO BE ABANDONED (NOTE 1,2,3) LIMIT OF PROPOSED NORTHBOUND ROADWAY RECONSTRUCTION

00

EX. (1) JB, EIS, TYPE J TO BE ABANDONED (NOTE 1,2,3)

SB I-90/94

NB I-90/94

PR & NB I-90/94

PR & SB I-90/94

- EX. (1) CONDUIT, EIS, 4" DIA. -EX. (2) INNERDUCT, 1" DIA. EX. (1) 96 SMF EX. (2) NO. 19 50-PAIR TO BE ABANDONED (NOTE 1,2,3)

FX ROW

VELT®RD

ROOSE

EX. (1) CONDUIT, UG, 2" DIA., EX. (1) 12 SMF TO BE MAINTAINED (NOTE 4)

RD

ROOSEVELT

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- - 50 SCALE: 1"=50"

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING/TEMPORARY ITS PLAN NB I-90/94 SCALE: 1"=50" SHEET 8 OF 70 SHEETS STA. 177+50 (EX) TO STA. 6108+00

F.A.I. RTE. SECTION COUNTY 90/94/290 2015-D18R COOK 2155 1120 CONTRACT NO. 62A76

œ $^{\mathsf{NB}}$

-90/94)

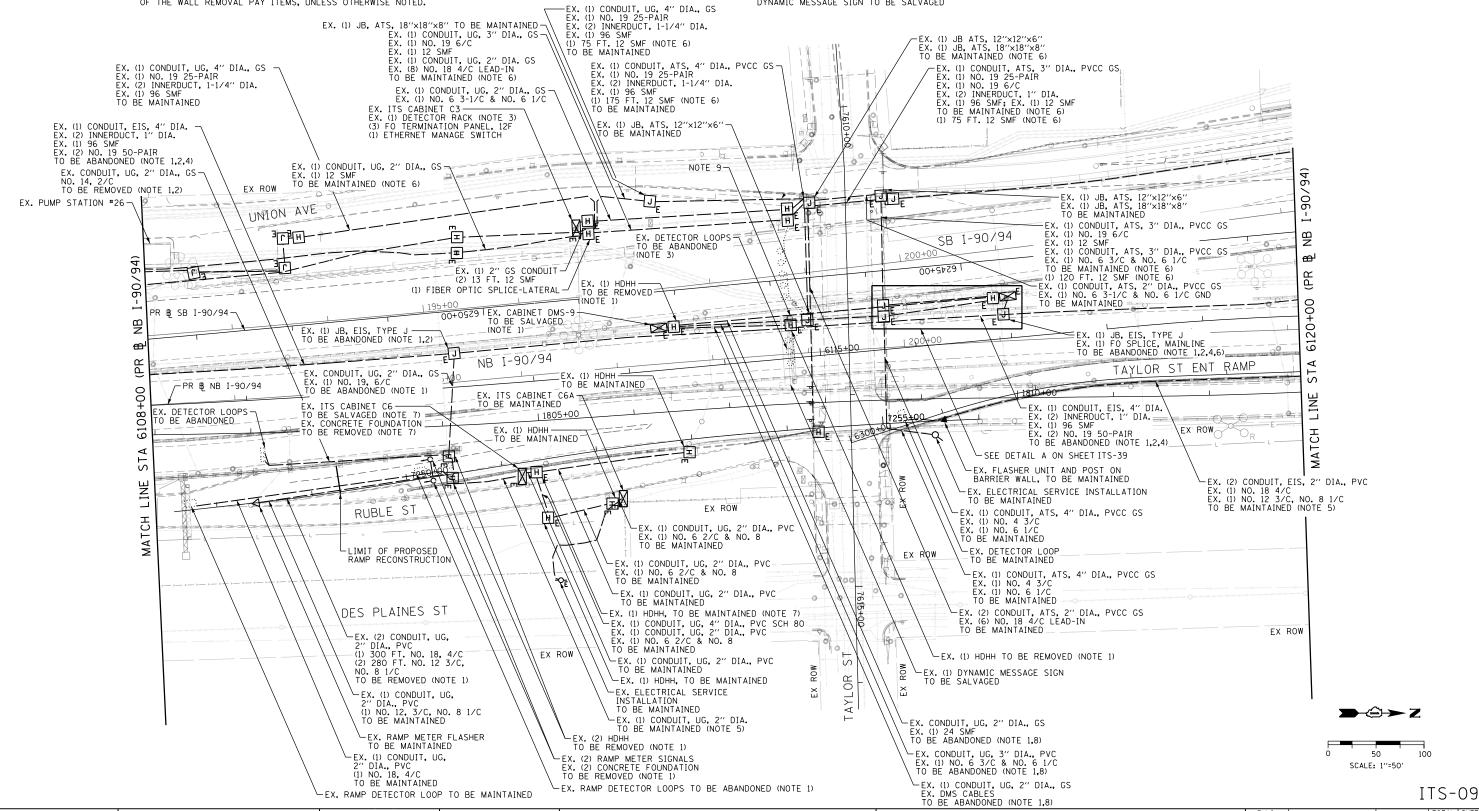
NOTES: 1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS

2. BEFORE REMOVAL OF ANY SECTION OF NORTHBOUND MEDIAN BARRIER WALL, DISCONNECT AND REMOVE EXISTING 96 SMF AND NO. 19 TRUNKLINE CABLES FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE HALSTED COMMUNICATIONS HUT. THIS WORK MUST BE PERFORMED AFTER THE ALTERNATE TRUNKLINE FIBER OPTIC CABLE BETWEEN 16TH STREET AND PUMP STATION *29 IS INSTALLED AND OPERATIONAL (SEE PROPOSED ITS SHEETS). THIS WILL REQUIRE COORDINATION WITH CONTRACT 60X93, WHICH INSTALLS THE ALTERNATE TRUNKLINE ROUTE FROM 16TH STREET TO THE NORTH.

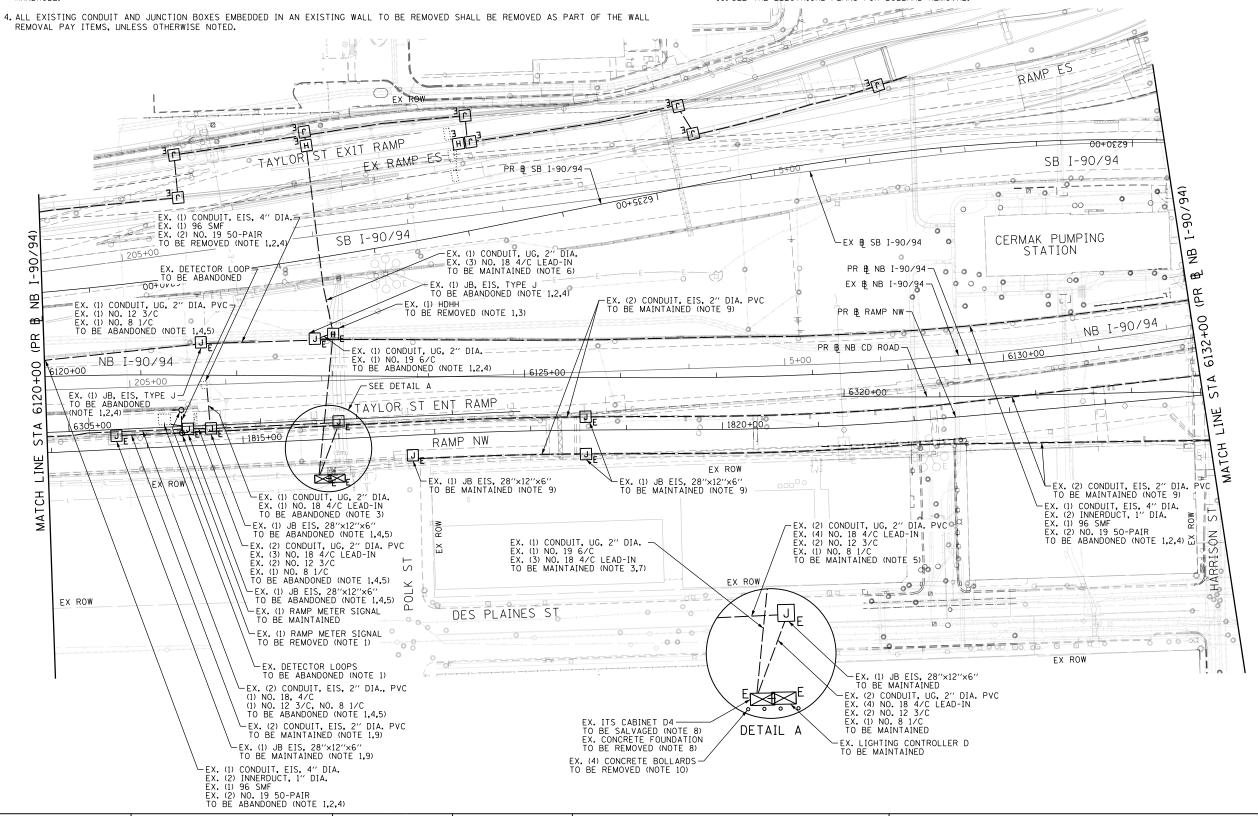
ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.

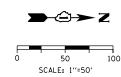
- 3. DISCONNECT DETECTOR LOOPS AND REMOVE THE LEAD-IN CABLE. SALVAGE DETECTOR RACK IN CABINET C3.
- 4. ALL EXISTING CONDUIT AND JUNCTION BOXES EMBEDDED IN AN EXISTING WALL TO BE REMOVED SHALL BE REMOVED AS PART
 OF THE WALL REMOVAL PAY ITEMS, UNLESS OTHERWISE NOTED.

- 5. DISCONNECT DETECTOR LOOP AND RAMP METER FLASHER AND REMOVE CABLES FROM CONDUIT.
- 6. MAINTAIN FIBER OPTIC LINK BETWEEN PUMP STATION #26 AND THE NORTHBOUND MEDIAN UNTIL NEW LINK IS ESTABLISHED. THIS WILL REQUIRE COORDINATION WITH CONTRACT 62A77 WHICH INSTALLS THE NEW LINK. ONCE THE NEW LINK IS INSTALLED, REMOVE THE EXISTING 12 SMF CABLE AND INSTALL A NEW 12 SMF CABLE IN THE IDENTIFIED EXISTING CONDUITS BETWEEN DMS-10 AND TERMINATE IN CABINET C3.
- 7. DISCONNECT EXISTING POWER CABLES TO CABINET CG, PULL BACK TO NEAREST HANDHOLE, AND COIL FOR FUTURE CONNECTION. SALVAGE EXISTING CABINET AND EQUIPMENT AND REMOVE EXISTING CONCRETE FOUNDATION.
- 8. REMOVE CABLE IN CONDUIT/HANDHOLE/JUNCTION BOX.
- 9. EX. (1) DYNAMIC MESSAGE SIGN STRUCTURE; EX. (1) DYNAMIC MESSAGE SIGN STRUCTURE FOUNDATION TO BE REMOVED; EX. (1) DYNAMIC MESSAGE SIGN TO BE SALVAGED



- 1. MAINTAIN THE EXISTING IDOT ITS ITEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- 2. BEFORE REMOVAL OF ANY SECTION OF NORTHBOUND MEDIAN BARRIER WALL, DISCONNECT AND REMOVE EXISTING 96 SMF AND NO. 19 TRUNKLINE CABLES FROM THE JUNCTION BOX AT STA 152+10 NORTH TO THE HALSTED COMMUNICATIONS HUT. THIS WORK MUST BE PERFORMED AFTER THE ALTERNATE TRUNKLINE FIBER OPTIC CABLE BETWEEN 16TH STREET AND PUMP STATION *29 IS INSTALLED AND OPERATIONAL (SEE PROPOSED ITS SHEETS). THIS WILL REQUIRE COORDINATION WITH CONTRACT 60X93, WHICH INSTALLS THE ALTERNATE TRUNKLINE ROUTE FROM 16TH STREET TO THE NORTH.
- 3. BEFORE REMOVAL OF LATERAL CONDUITS AND CABINET D4, DISCONNECT DETECTOR LEAD-IN CABLES FROM CABINET D4, PULL BACK TO MEDIAN HANDHOLE, AND COIL FOR FUTURE USE. THIS WILL REQUIRE COORDINATION WITH CONTRACT 62A77, WHICH RELOCATES THE CABLE FROM THE MEDIAN HANDHOLE.
- 5. DISCONNECT DETECTOR LOOPS AND RAMP METER SIGNALS AND REMOVE CABLES FROM CONDUIT.
- 6. TO BE REMOVED BY CONTRACT 62A77.
- 7. MAINTAIN EXISTING CONDUIT FROM CABINET D4 TO LIMIT OF NORTHBOUND MAINLINE PAVEMENT REMOVAL. STUB AND CAP CONDUIT FOR FUTURE CONNECTION.
- 8. DISCONNECT AND REMOVE EXISTING POWER CABLES TO CABINET D4. SALVAGE EXISTING CABINET AND EQUIPMENT AND REMOVE EXISTING CONCRETE FOUNDATION, PROTECTING CONDUIT TO THIS LOCATION FOR FUTURE INTERCEPTION (SEE PROPOSED ITS SHEETS).
- 9. CONDUIT/JUNCTION BOX LOCATED ON I-290 FLYOVER RAMP.
- 10. SEE THE ELECTRICAL PLANS FOR BOLLARD REMOVAL





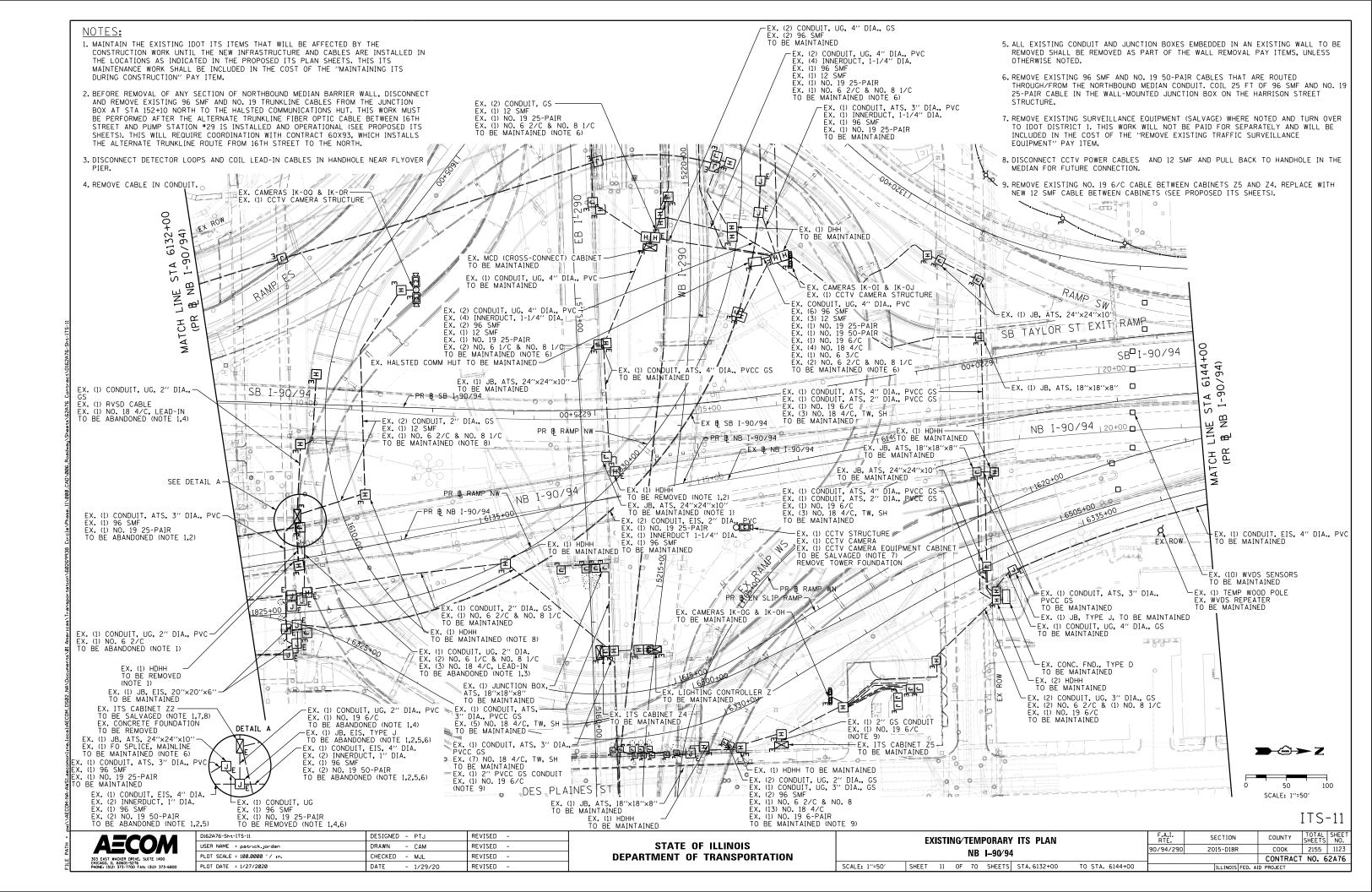
AECOM303 EAST. WACKER DRIVE, SUITE 1400
CHICAGO, IL 66601-5276
PHONE; (131) 273-7700 FAX; (1312) 373-6800

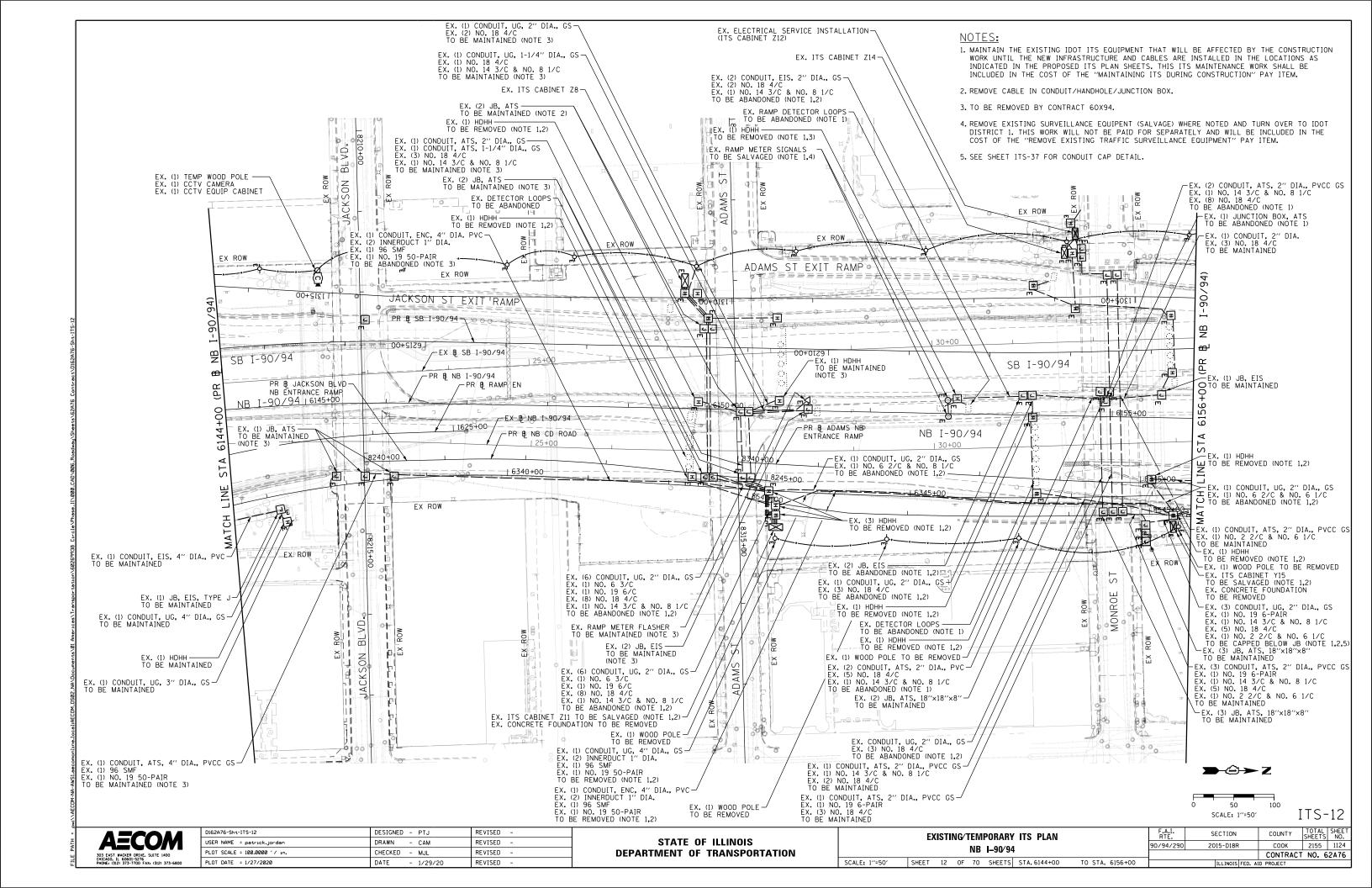
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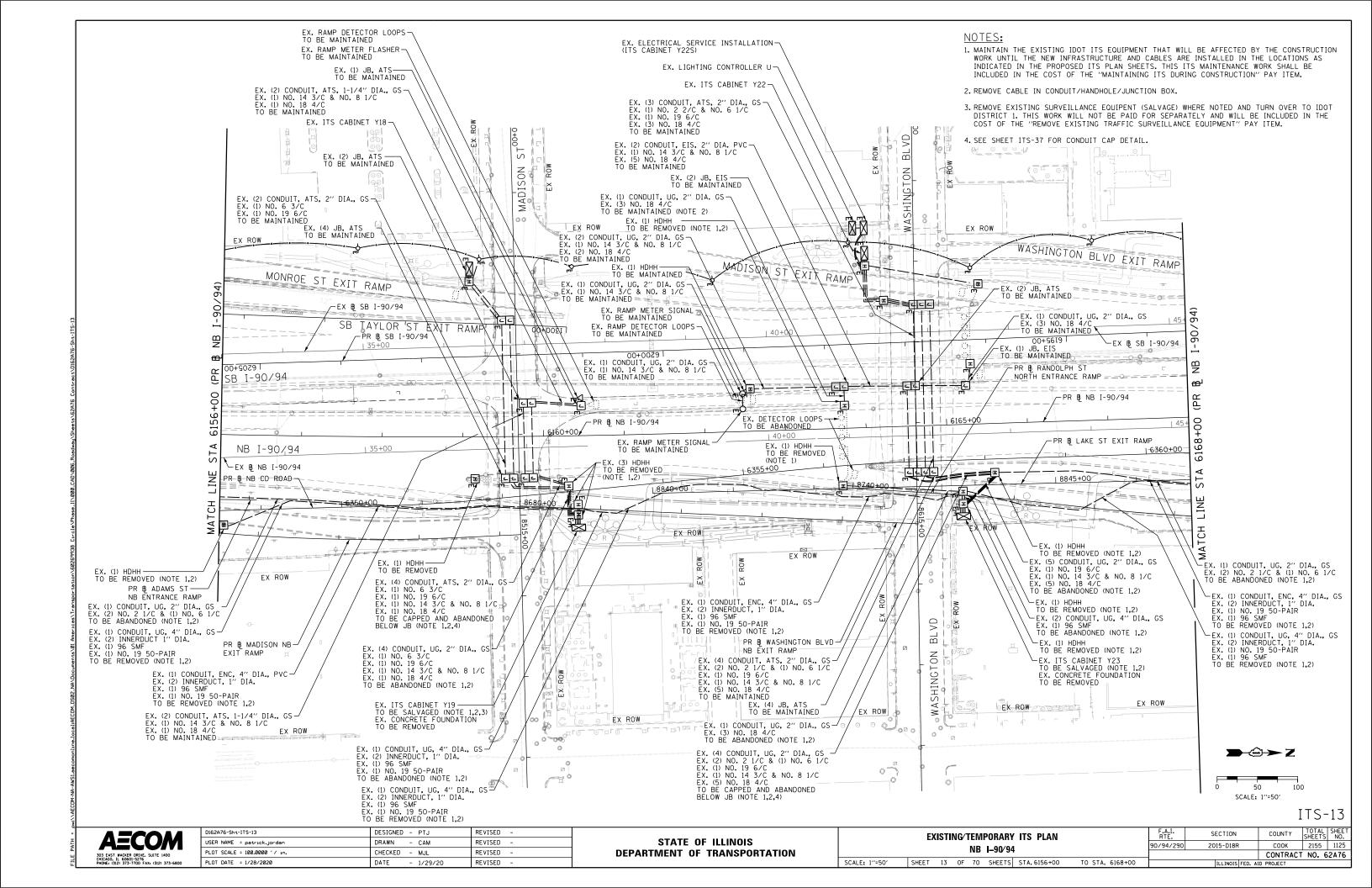
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DEPARTMENT OF TRANSPORTATION

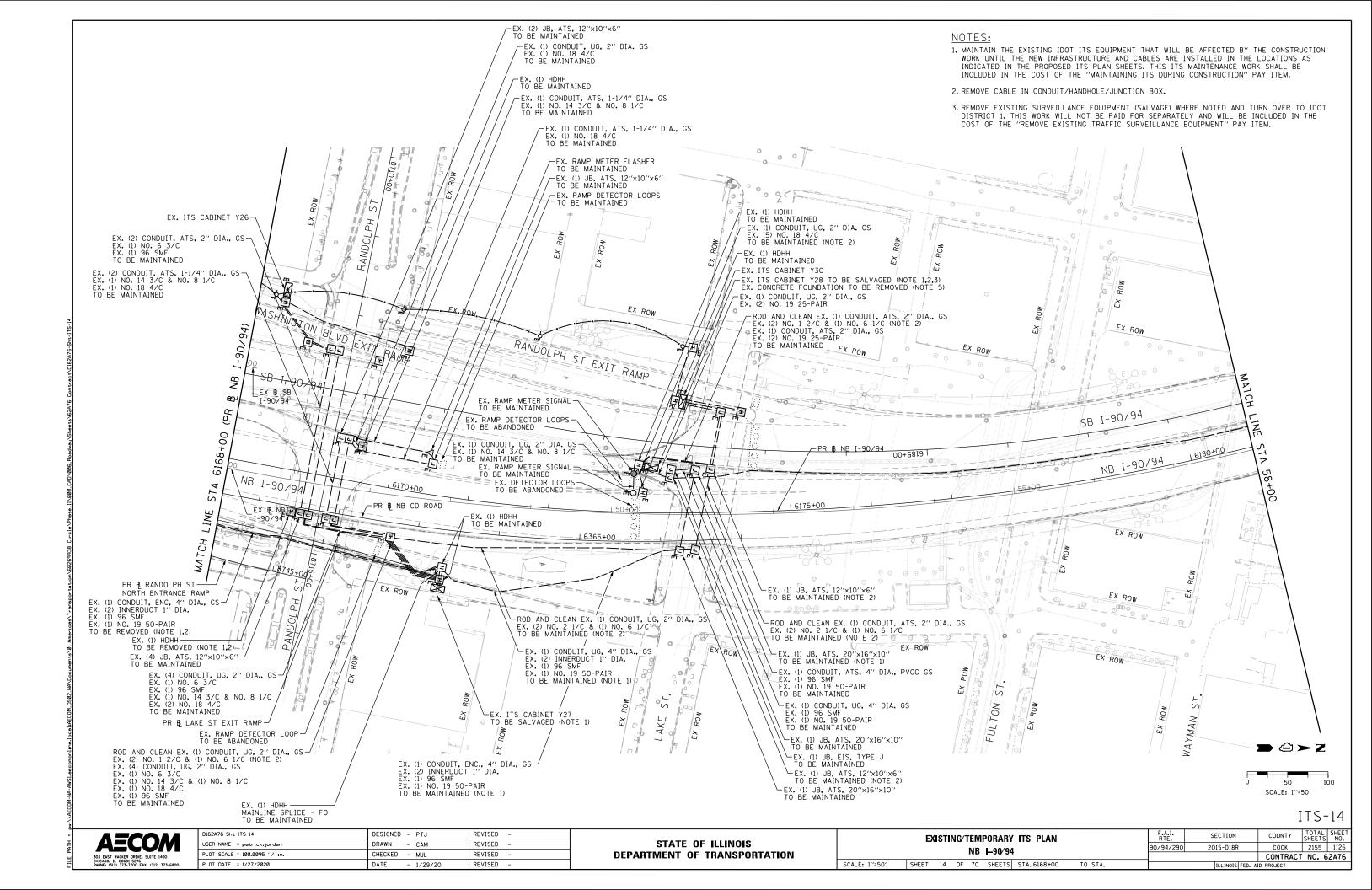
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NB I-90/94									
SCALE: 1"=50"	SHEET	10	OF	70	SHEETS	STA. 6120+00	TO STA. 6132+00		

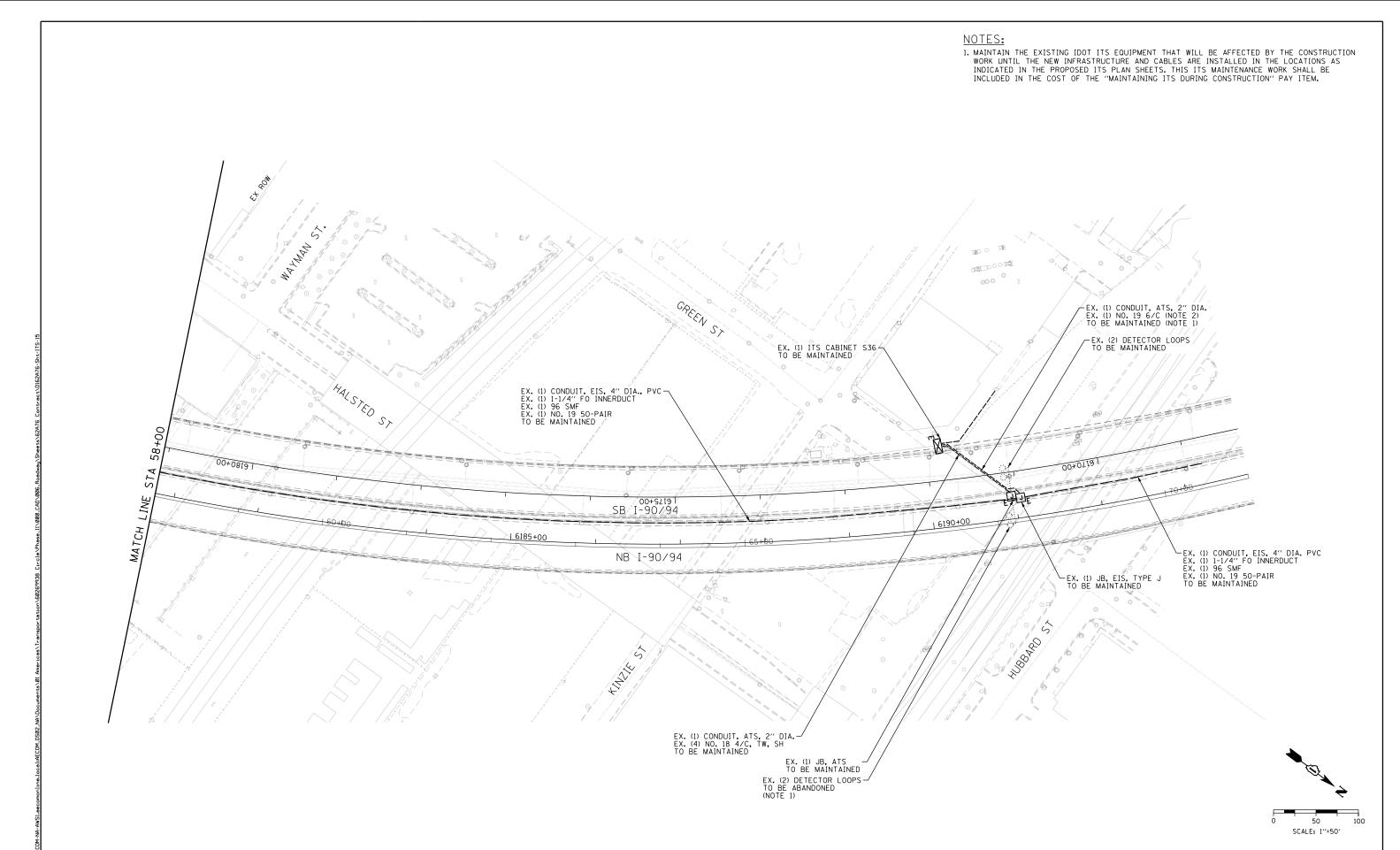
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90/94/290	2015-D18R	соок	2155	1122
		CONTRACT	NO. 6	2A76
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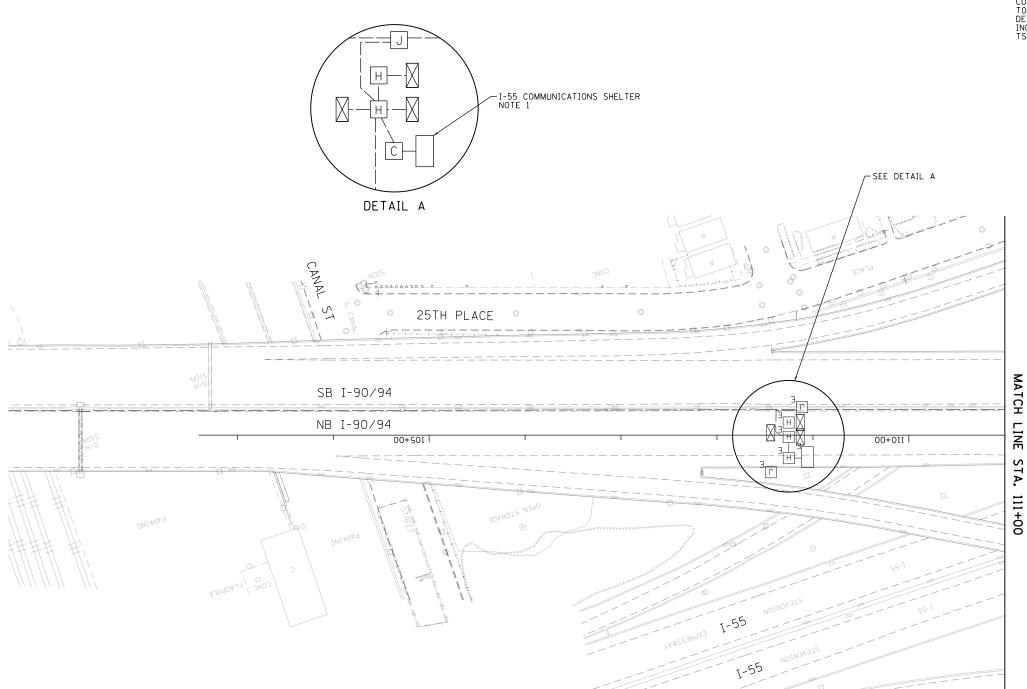


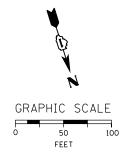
ITS-15

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303 EAST WACKER DRIVE, SUITE 1400
CNICAGO, II. 60601-5276
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1. AFTER INSTALLATION OF ALTERNATE FIBER OPTIC CABLE ROUTE BETWEEN 16TH STREET AND PUMP STATION *29 (SEE SHEETS ITS-16 TO ITS-20), RECONFIGURE FIBER OPTIC CABLE ASSIGNMENTS WITHIN THE I-55 COMMUNICATIONS SHELTER FROM EXISTING 96 SMF TO THE CABLE RUNNING TO PUMP STATION *29. SEE COMMUNICATIONS SHEETS FOR ADDITIONAL DETAIL. THE CONTRACTOR SHALL COORDINATE ALL FIBER OPTIC WORK, INCLUDING DISCONNECTION AND CABLE ASSIGNMENTS, WITH IDOT/OAK PARK TSC.





SECTION

2015-D18R

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

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DEPARTMENT OF TRANSPORTATION

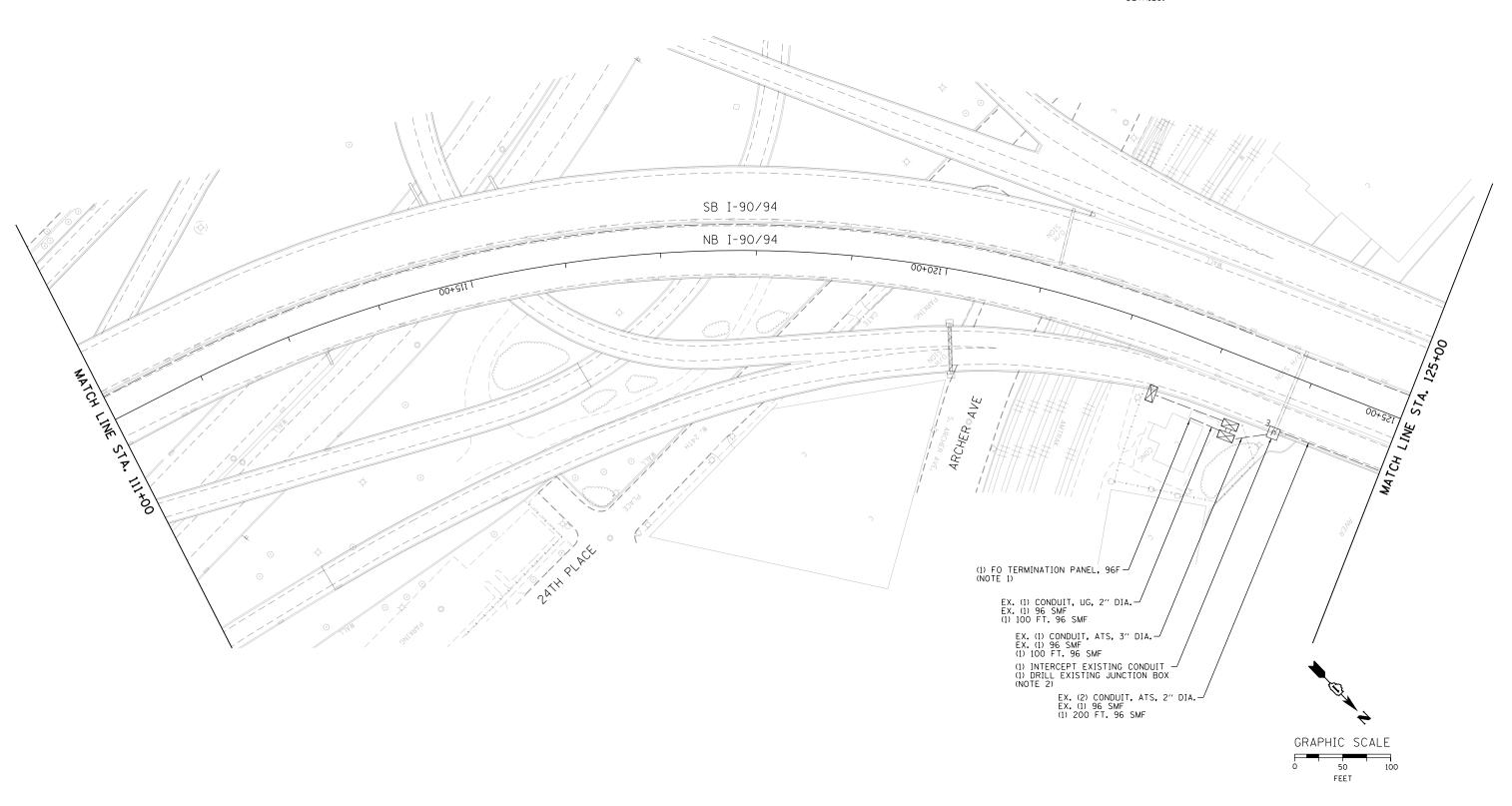
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SCALE: 1"=50"	SHEET	16	OF	70	SHEETS	STA.	TO STA. 111+00		•

COUNTY TOTAL SHEET NO.

COOK 2155 1128

CONTRACT NO. 62A76

- 1. AFTER INSTALLATION OF ALTERNATE FIBER OPTIC CABLE ROUTE BETWEEN 16TH STREET AND PUMP STATION *29, TERMINATE AND RECONFIGURE FIBER OPTIC CABLE ASSIGNMENTS WITHIN PUMP STATION *29. SEE COMMUNICATIONS SHEETS FOR ADDITIONAL DETAIL. THE CONTRACTOR SHALL COORDINATE ALL FIBER OPTIC WORK, INCLUDING DISCONNECTION AND CABLE ASSIGNMENTS, WITH IDOT/OAK PARK TSC.
- 2. SEE SHEET ITS-34 FOR ATTACHED CONDUIT AND JUNCTION BOX INSTALLATION DETAILS.



AECOM
303 EAST WACKER ORIVE. SUITE 1400
CHICAGO, IL 60601-5276

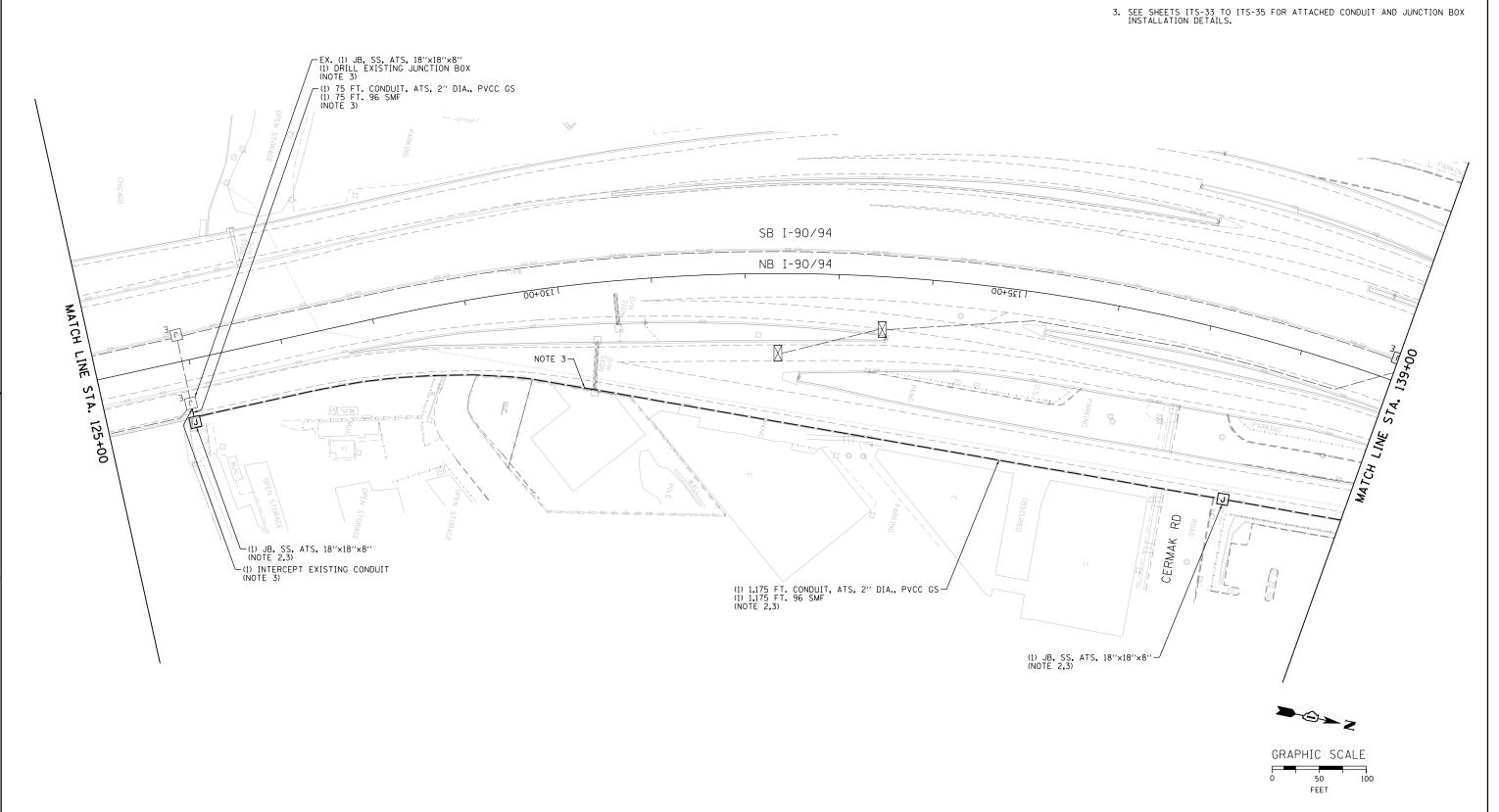
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 PROPOSED ITS PLAN

 SCALE: 1"=50"
 SHEET 17 OF 70 SHEETS STA. 111+00

TO STA. 125+00

- 1. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.
- 2. ATTACH JUNCTION BOX AND 2" PVC GS CONDUIT TO THE OUTSIDE OF THE PARAPET WALL. SEE "JUNCTION BOX MOUNTED TO STRUCTURE" AND "PVC COATED CONDUIT CLAMP" DETAILS ON SHEET E-32.

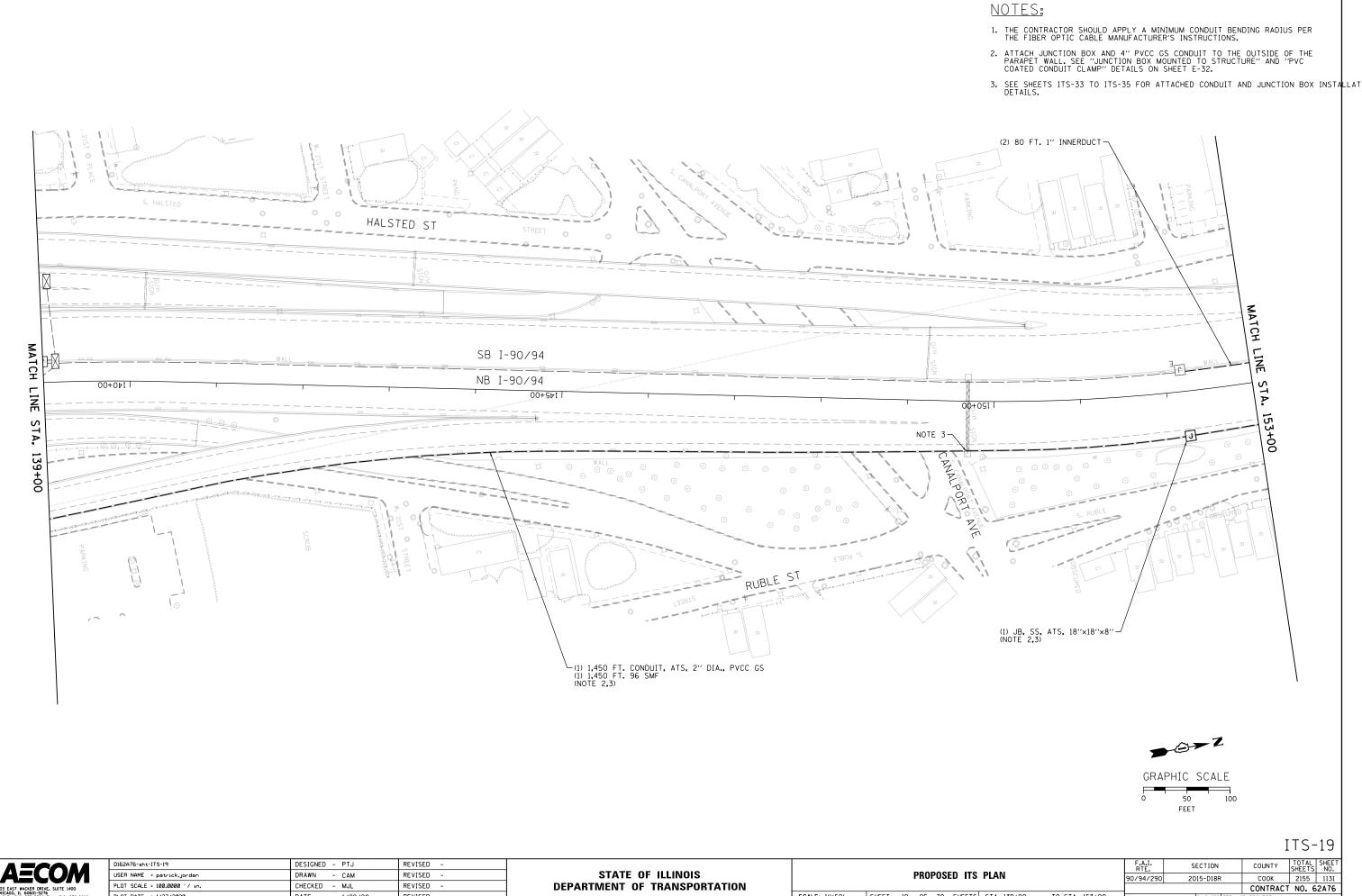


AECOM
303 EAST, WACKER DRIVE, SUITE 1400
CHICAGO, II. 60601-5276
PHONE, (12) 373-7700 FAM, (3)2 373-5800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 PROPOSED ITS PLAN

 SCALE: 1"=50"
 SHEET 18 0F 70 SHEETS STA. 125+00



SCALE: 1"=50" SHEET 19 OF 70 SHEETS STA. 139+00

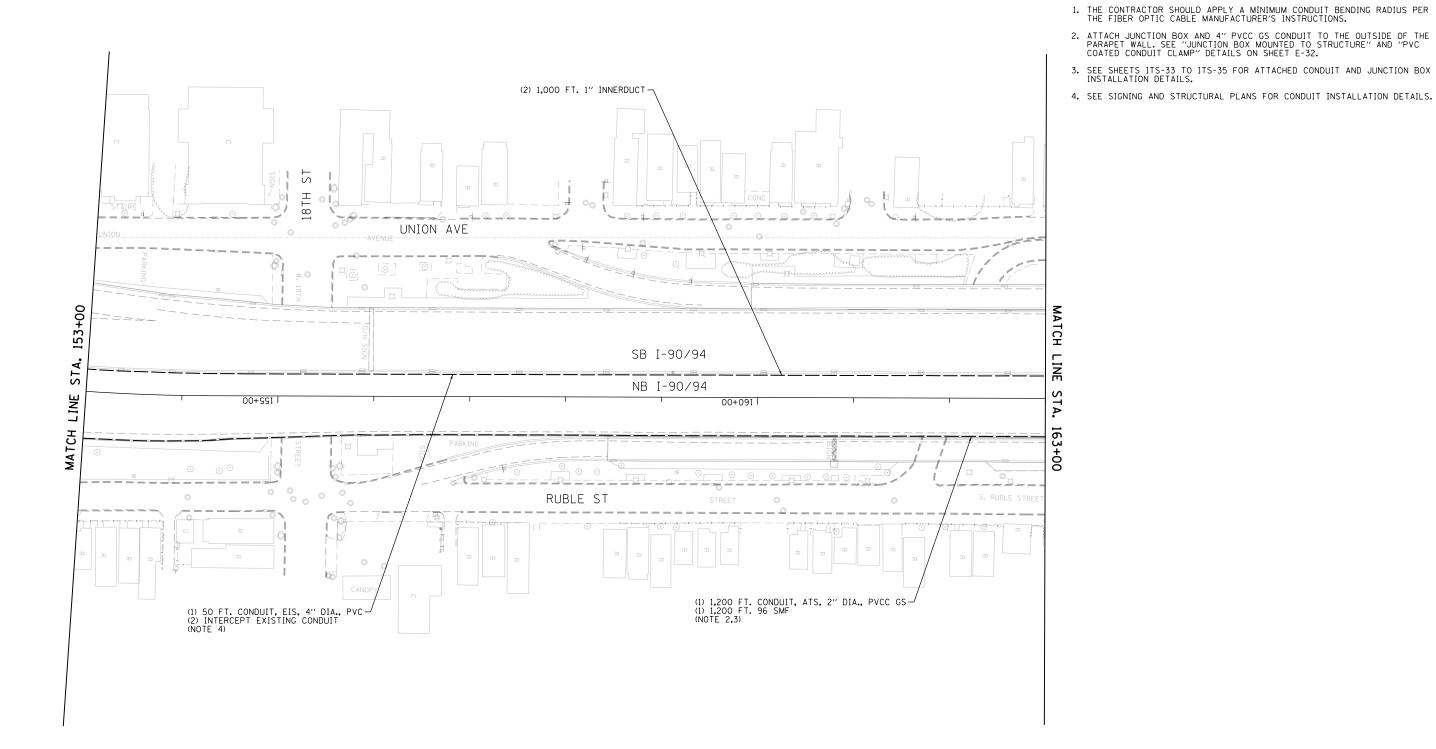
TO STA. 153+00

PLOT DATE = 1/27/2020

DATE

- 1/29/20

REVISED



GRAPHIC SCALE

50 FEET

ITS-20



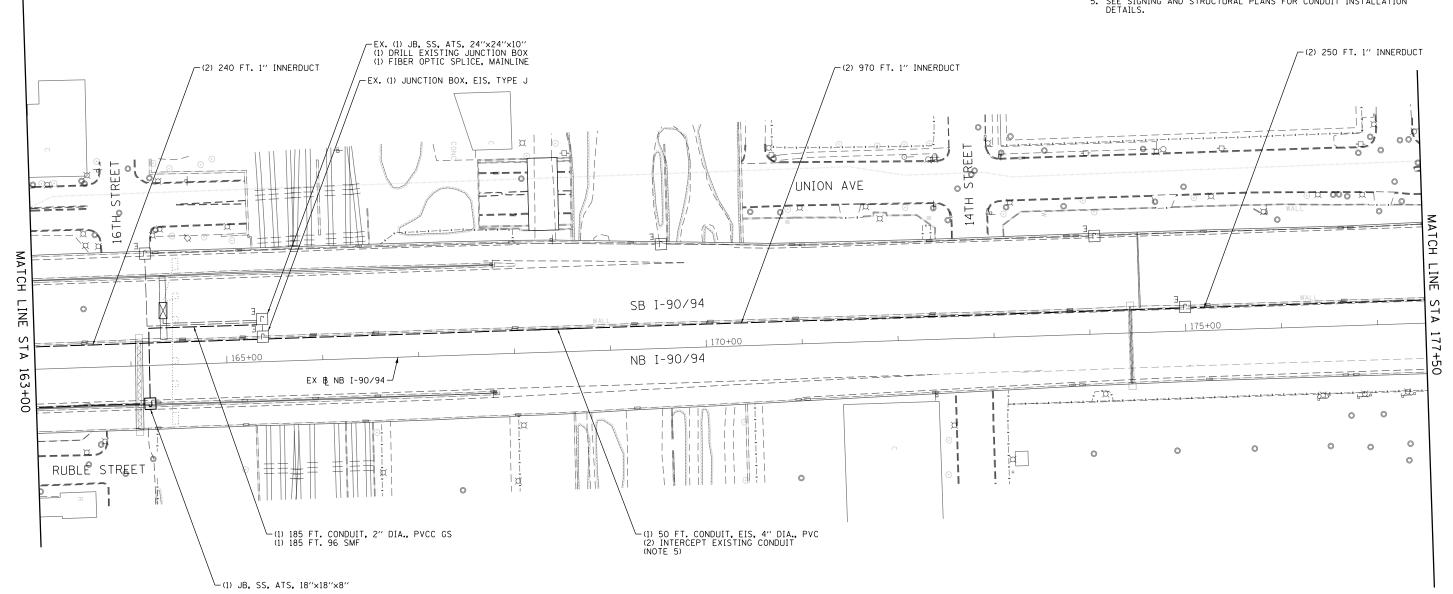
D162A76-sht-ITS-20	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/27/2020	DATE - 1/29/20	REVISED -

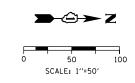
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN									
Г	SCALE: 1"=50"	SHEET	20	OF	70	SHEETS	STA. 153+00	TO STA. 163+00	

NOTES:

- 1. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.
- 2. ATTACH JUNCTION BOX AND 4" PVCC GS CONDUIT TO THE OUTSIDE OF THE PARAPET WALL. SEE "JUNCTION BOX MOUNTED TO STRUCTURE" AND "PVC COATED CONDUIT CLAMP" DETAILS ON SHEET E-32.
- 3. SEE SHEETS ITS-33 TO ITS-35 FOR ATTACHED CONDUIT AND JUNCTION BOX INSTALLATION DETAILS.
- 4. THE CONTRACTOR SHALL COORDINATE ALL FIBER OPTIC WORK, INCLUDING DISCONNECTION AND CABLE ASSIGNMENTS, WITH IDOT/OAK PARK TSC.
- 5. SEE SIGNING AND STRUCTURAL PLANS FOR CONDUIT INSTALLATION DETAILS.





D162A76-Sht-ITS-21	DESIGNED -	PTJ	REVISED -
USER NAME = nandan.baheti	DRAWN -	CAM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	MJL	REVISED -
PLOT DATE = 2/28/2020	DATE -	3/4/20	REVISED -

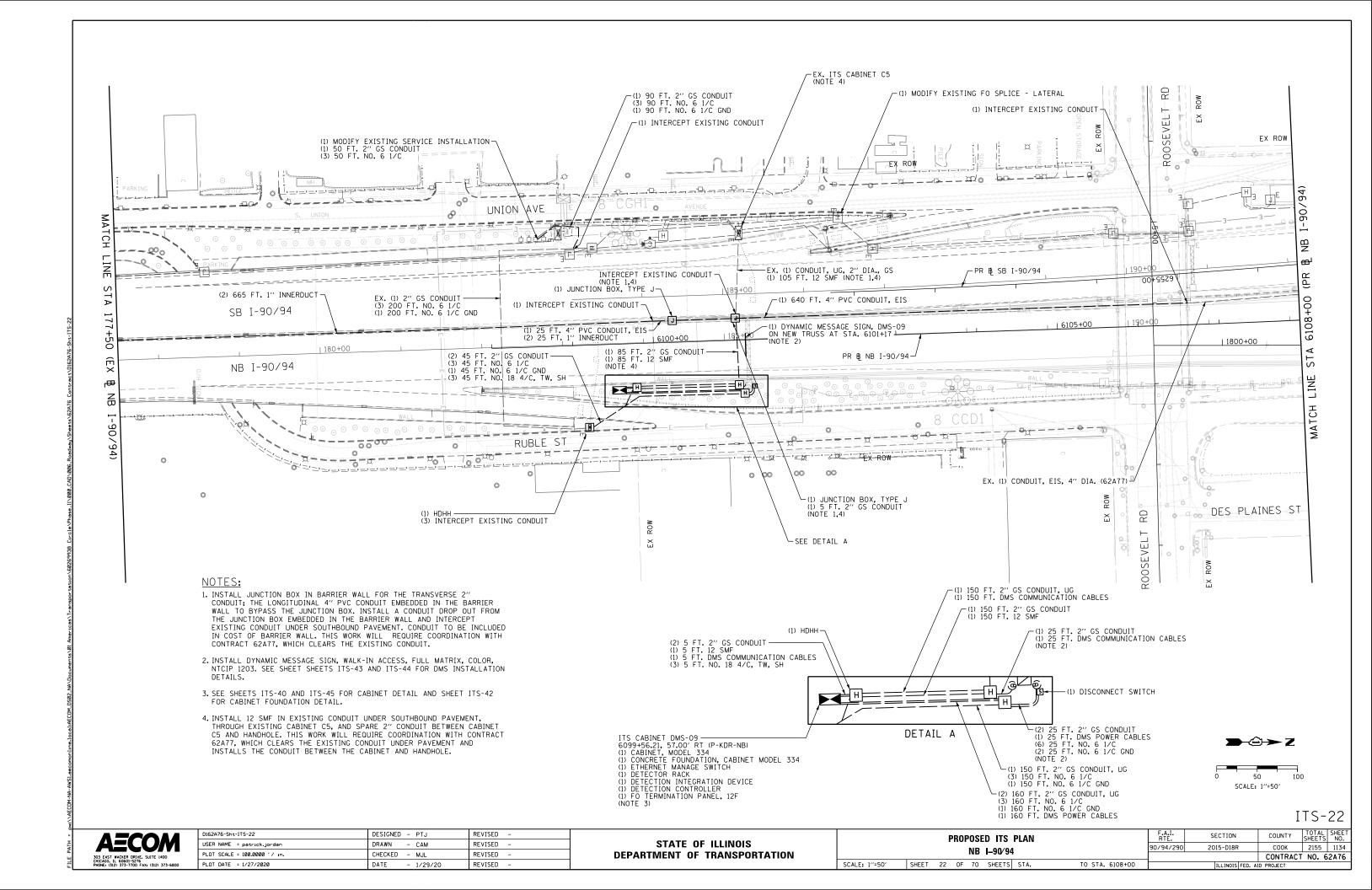
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

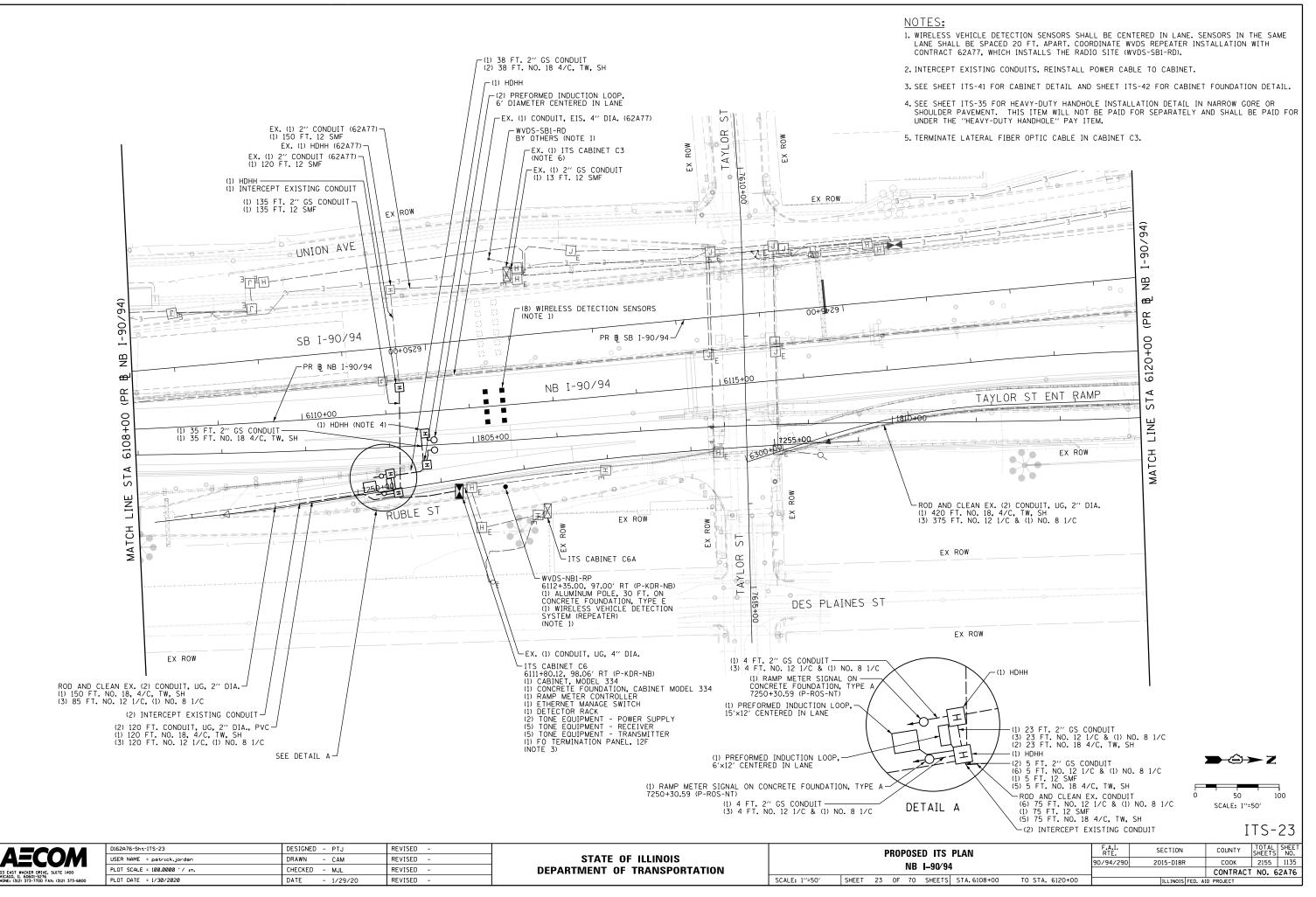
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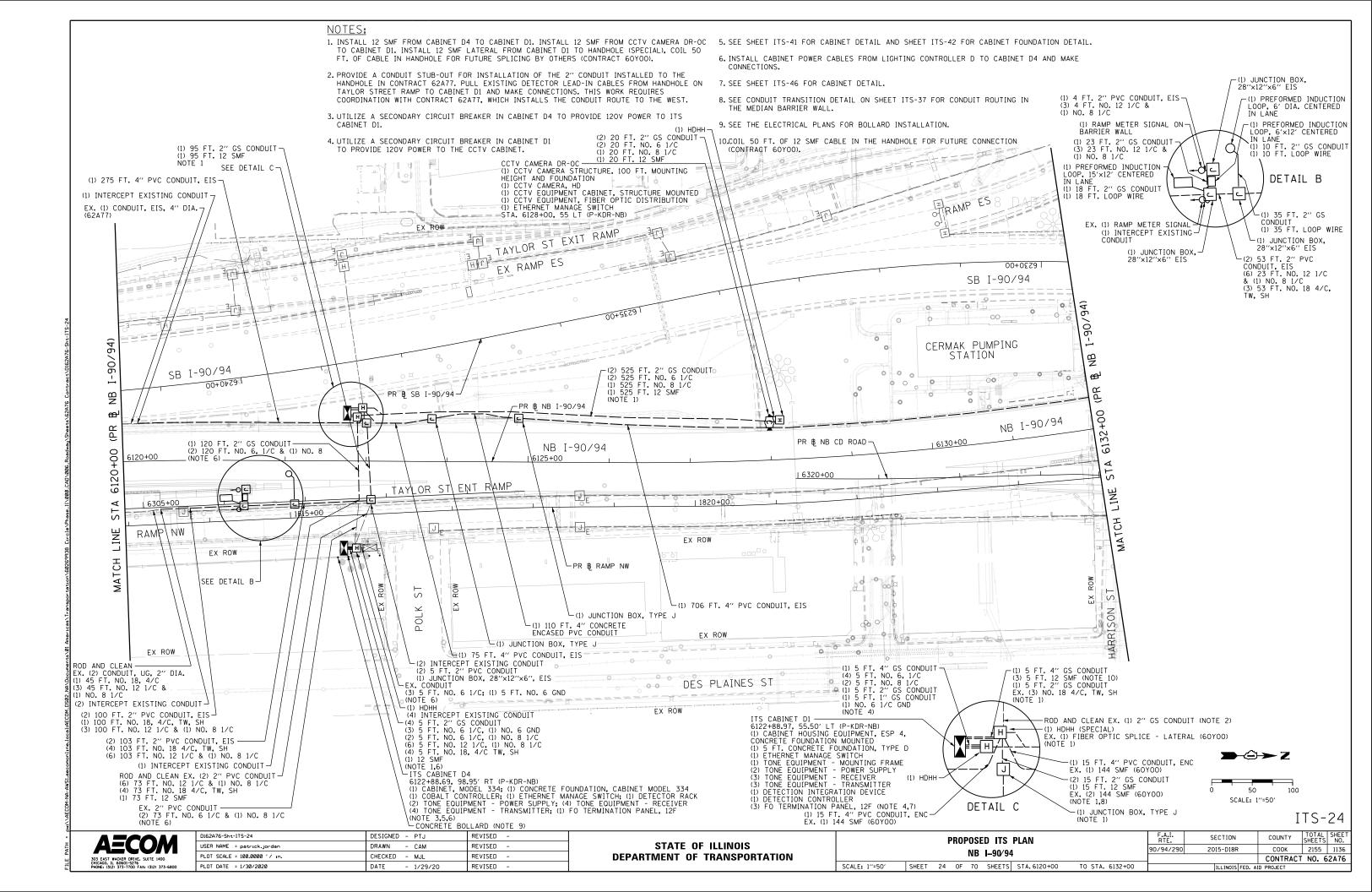
PROPOSED ITS PLAN									
			MR	I-90/94			5	9	
			ND	1-30/34			╝		
SHEET	21	OF	70	SHEETS	STA, 163+00	TO STA. 177+50		-	

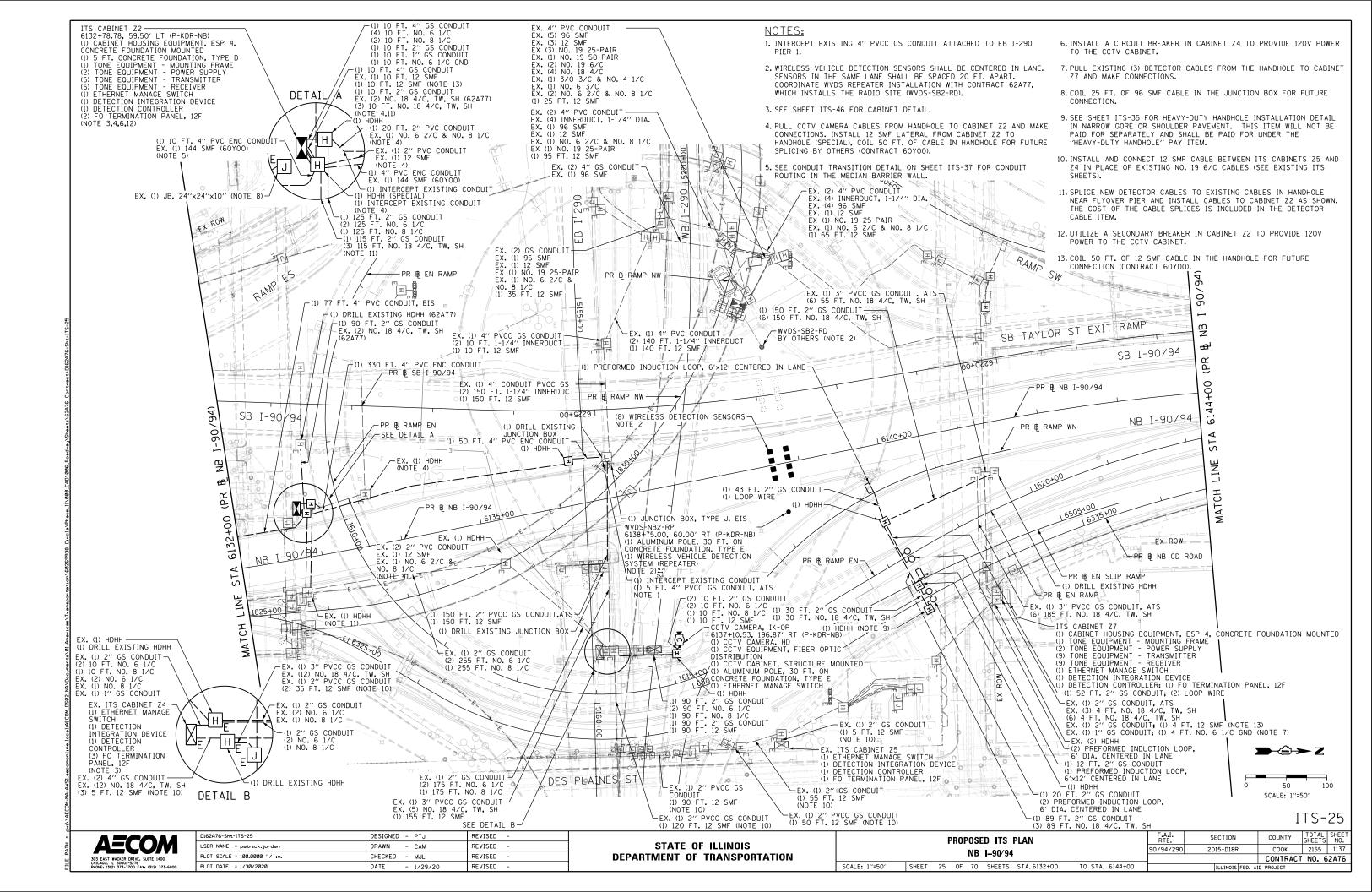
COUNTY SECTION COOK 2155 1133 90/94/290 2015-D18R CONTRACT NO. 62A76

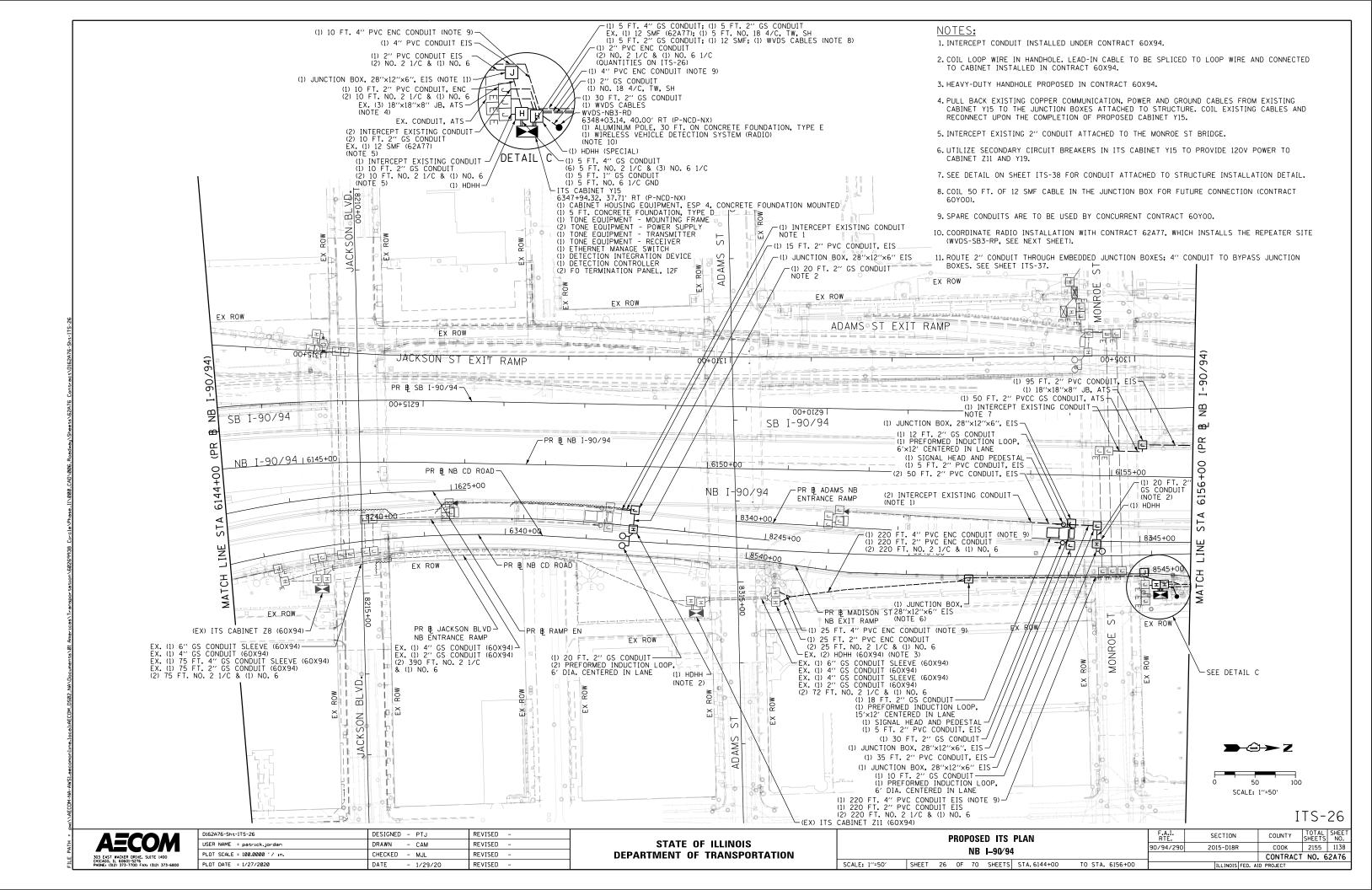
F.A.I. RTE.

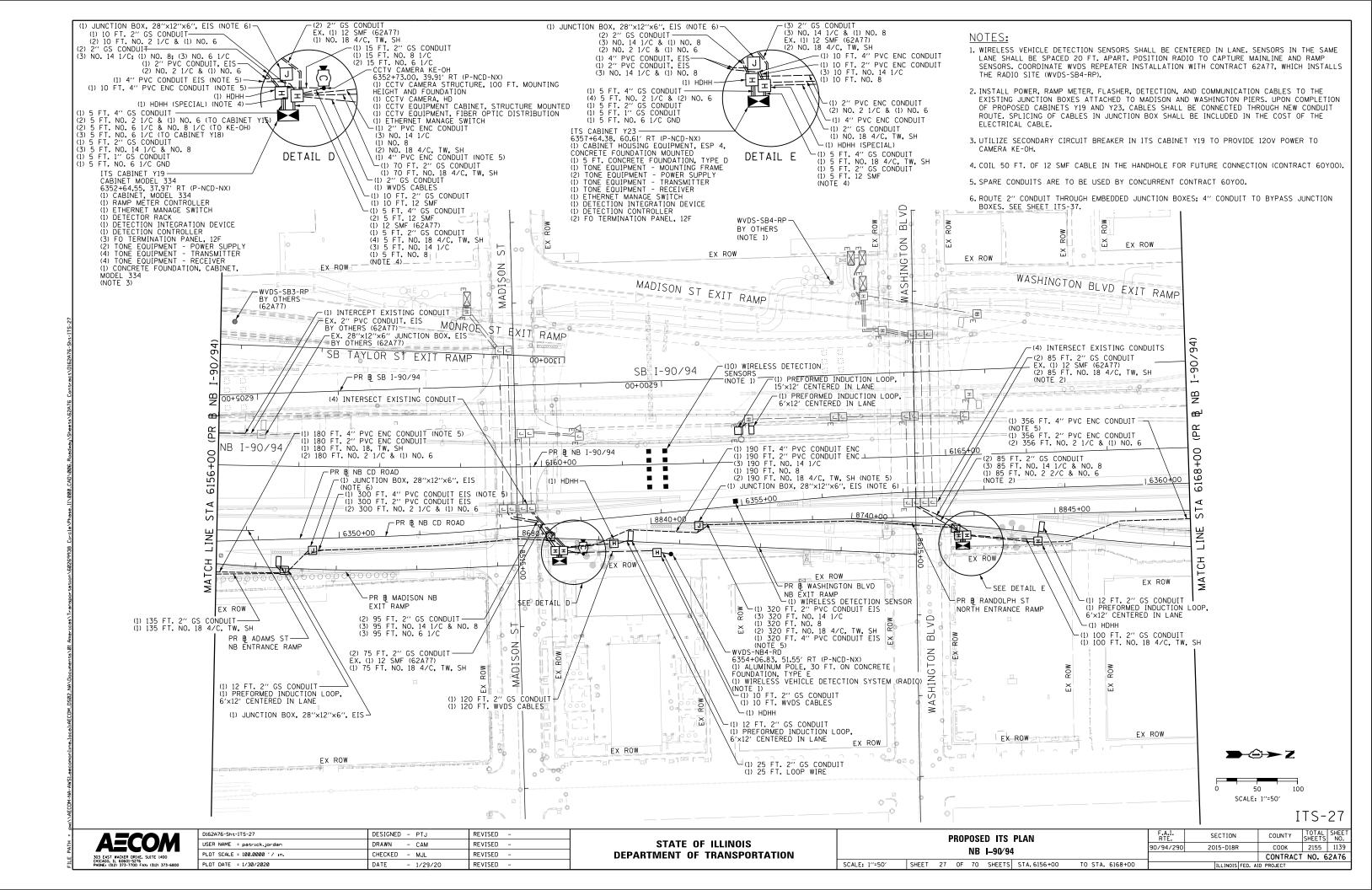




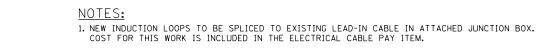


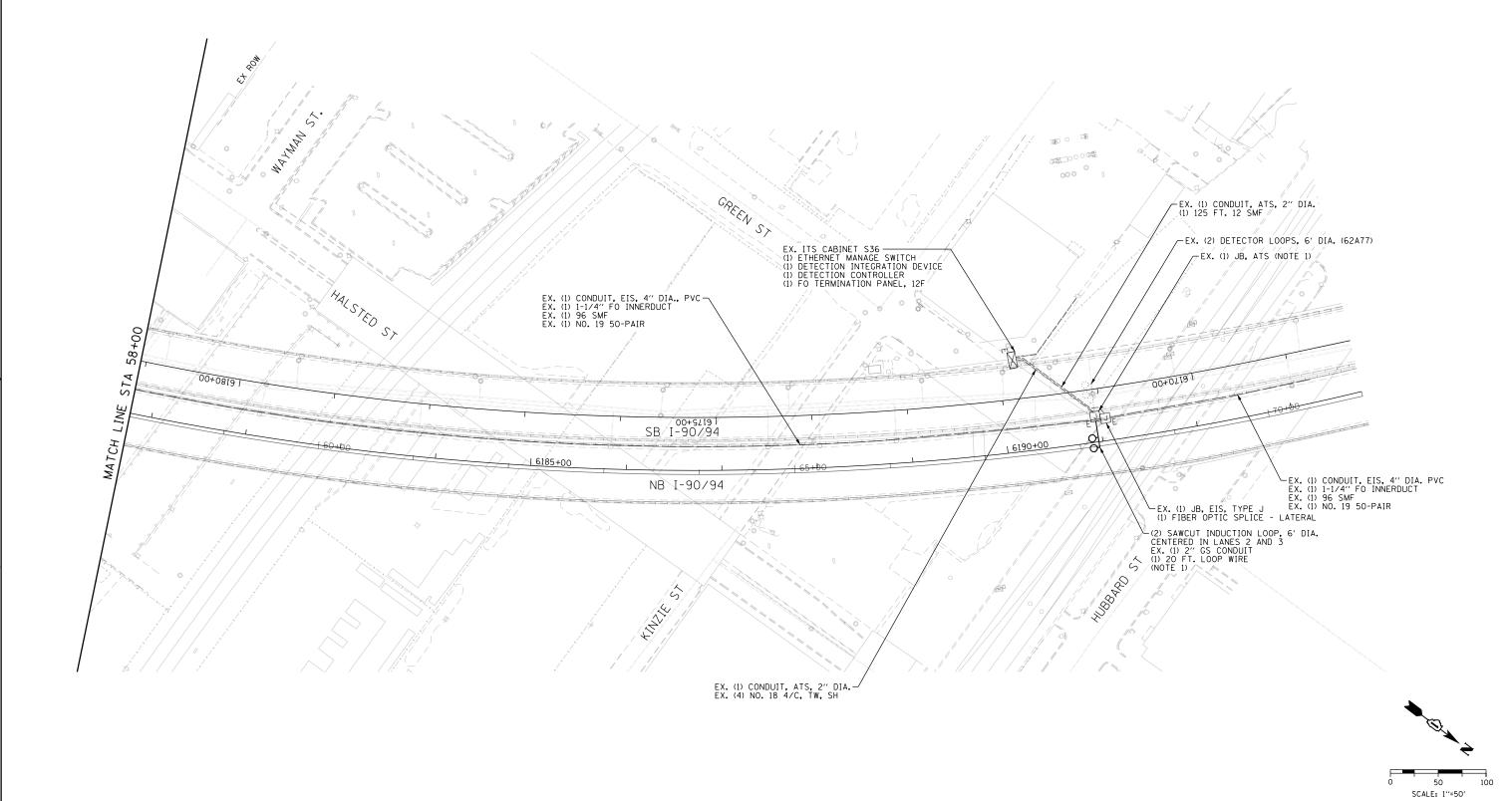






NOTES: 1. WIRELESS VEHICLE DETECTION SENSORS SHALL BE CENTERED IN LANE. SENSORS IN THE SAME LANE SHALL BE SPACED 20 FT. APART. COORDINATE WVDS REPEATER INSTALLATION WITH CONTRACT 62A77, WHICH INSTALLS THE REPEATER SITE (WVDS-SB5-RP). 2. SPLICE LOOP WIRE IN EXISTING HEAVY-DUTY HANDHOLE TO EXISTING NO. 18 4/C CABLE. 3. COIL 50 FT. OF 12 SMF CABLE IN THE HANDHOLE FOR FUTURE CONNECTION (CONTRACT 60Y00). 4. SPARE CONDUITS ARE TO BE USED BY CONCURRENT CONTRACT 60YOO. 5. ROUTE 2" CONDUIT THROUGH EMBEDDED JUNCTION BOXES; 4" CONDUIT TO BYPASS JUNCTION BOXES. SEE SHEET ITS-37.. RANDOLF WVDS-SB5-RE BY OTHERS (NOTE 1) -(1) SAWCUT INDUCTION LOOP, 15'x12' CENTERED IN LANE EX. (1) 2" GS CONDUIT (1) 10 FT. LOOP WIRE WASHINGTON BLIVD EXIT RAMP EX ROW EX ROW (2) INTERCEPT EXISTING CONDUIT -90/94) EX ROW (1) PREFORMED INDUCTION LOOP, 6'x12' CENTERED IN LANE EX. (1) 2" GS CONDUIT (1) 10 FT. LOOP WIRE EX ROW RANDOLPH ST EXIT RAMP SB I-90/94 -(1) 10 FT. 4" PVE ENC CONDUIT -(1) 66 FT. 4" PVC ENC CONDUIT (1) 150 FT. 2" PVC ENC CONDUIT (2) 150 FT. NO. 2 1/C (1) 150 FT. NO. 6 -(I) 150 FT. 4" PVC CONDUIT EIS (I) 150 FT. 2" PVC CONDUIT EIS (2) 150 FT. NO. 2 1/C (1) 150 FT. NO. 6 89 (NOTE 4) -EX. (2) 2" GS CONDUIT (2) 65 FT. NO. 18 4/C, TW, SH (3) 65 FT. NO. 14 1/C & (1) 65 FT. NO. 8 1/C 00+06191 EX. (5) CONDUIT, UG, 2" DIA. GS EX. (1) NO. 6 3/C EX. (1) NO. 14 3/C & (1) NO. 8 1/C (3) 90 FT. NO. 14 1/C & (1) NO. 8 1/C EX. (1) NO. 18 4/C (2) 90 FT. NO. 18 4/C EX. (1) 96 SMF NB I-90/9/ STA (1) 10 FT. 4" PVC ENC CONDUIT (NOTE 4) PR BE LAKE ST EXIT RAMP -(1) DRILL EXISTING HDHH (NOTE 3) HDHH : −PR BLNB CD ROAD EX ROW MATCH EX. (1) 2" GS CONDUIT (1) 12 SMF (2) DRILL EXISTING HDHH -EX. (1) 2" GS CONDUIT (2) 90 FT. NO. 18 4/C, TW, SH (3) 90 FT. NO. 14 1/C & (1) NO. 8 1/C X EX. (1) 2" GS CONDUIT (3) 90 FT. (2) 200 FT. NO. 18 4/C, TW, SH (3) 200 FT. NO. 14 1/C & (1) NO. 8 1/C EX ROW (10) WIRELESS DETECTION SENSORS (1) 205 FT. 2" GS CONDUIT (1) 205 FT. WVDS CABLES EX. (1) 4" GS CONDUIT (2) 5 FT. NO. 2 1/C & (1) NO. F& ROW (4) 5 FT. NO. 18 4/C, TW, SH (3) 5 FT. NO. 14 3/C & (1) NO. 8 1/C (1) 5 FT. WVDS CABLES (1) 5 FT. 12 SMF WVDS-NB5-RD (1) ALUMINUM POLE, 30 FT. ON CONCRETE FOUNDATION, TYPE E (1) WIRELESS VEHICLE DETECTION SYSTEM (RADIO) EX ROW (NOTE 1) EX ROW (1) 45 FT. 2" GS CONDUIT (1) 45 FT. WVDS CABLES EX ROW (1) 5 FT. 12 SMF —ITS CABINET Y27 6170+78.28, 114.59' RT (P-KDR-NB) (1) CABINET, MODEL 334 (1) CONCRETE FOUNDATION, CABINET MODEL 334 (1) RAMP METER CONTROLLER (1) ETHERNET MANAGE SWITCH (1) DETECTOR RACK (1) TONE EQUIPMENT - POWER SUPPLY (4) TONE EQUIPMENT - RECEIVER (4) TONE EQUIPMENT - TRANSMITTER (1) DETECTION INTEGRATION DEVICE └(1) HDHH S OS (1) JUNCTION BOX, FUL EX 28"x12"x6", EIS (NOTE 5) (1) 10 FT. 2" PVC CONDUIT ENC (2) 10 FT. NO. 2 1/C (1) 10 FT. NO. 6 (4) TONE EQUIPMENT - TRANSMITTER (1) DETECTION INTEGRATION DEVICE (1) DETECTION CONTROLLER; (1) FO TERMINATION PANEL, 24F (1) 10 FT. 2" PVC ENC CONDUIT (2) 10 FT. NO. 2 1/C & (1) NO. 6 (1) DRILL EXISTING HOHH (NOTE 2) (1) JUNCTION BOX, 28"x12"x6", EIS (NOTE 6) (1) 20 FT. 2" GS CONDUIT (1) PREFORMED INDUCTION LOOP, 6'x12" CENTERED IN LANE (NOTE 2) (1) HDHH 50 SCALE: 1"=50" └PR BE RANDOLPH ST NORTH ENTRANCE RAMP ITS-28 D162A76-Sht-ITS-28 REVISED DESIGNED - PTJ F.A.I. RTE. **AECOM** SECTION COUNTY PROPOSED ITS PLAN STATE OF ILLINOIS USER NAME = patrick.jordan DRAWN - CAM REVISED 90/94/290 2015-D18R COOK 2155 1140 NB I-90/94 PLOT SCALE = 100.0000 ' / in. CHECKED - MJL REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62A76 SCALE: 1"=50" | SHEET 28 OF 70 SHEETS | STA. 6168+00 TO STA. 58+00 PLOT DATE = 1/28/2020 DATE REVISED





ITS-29

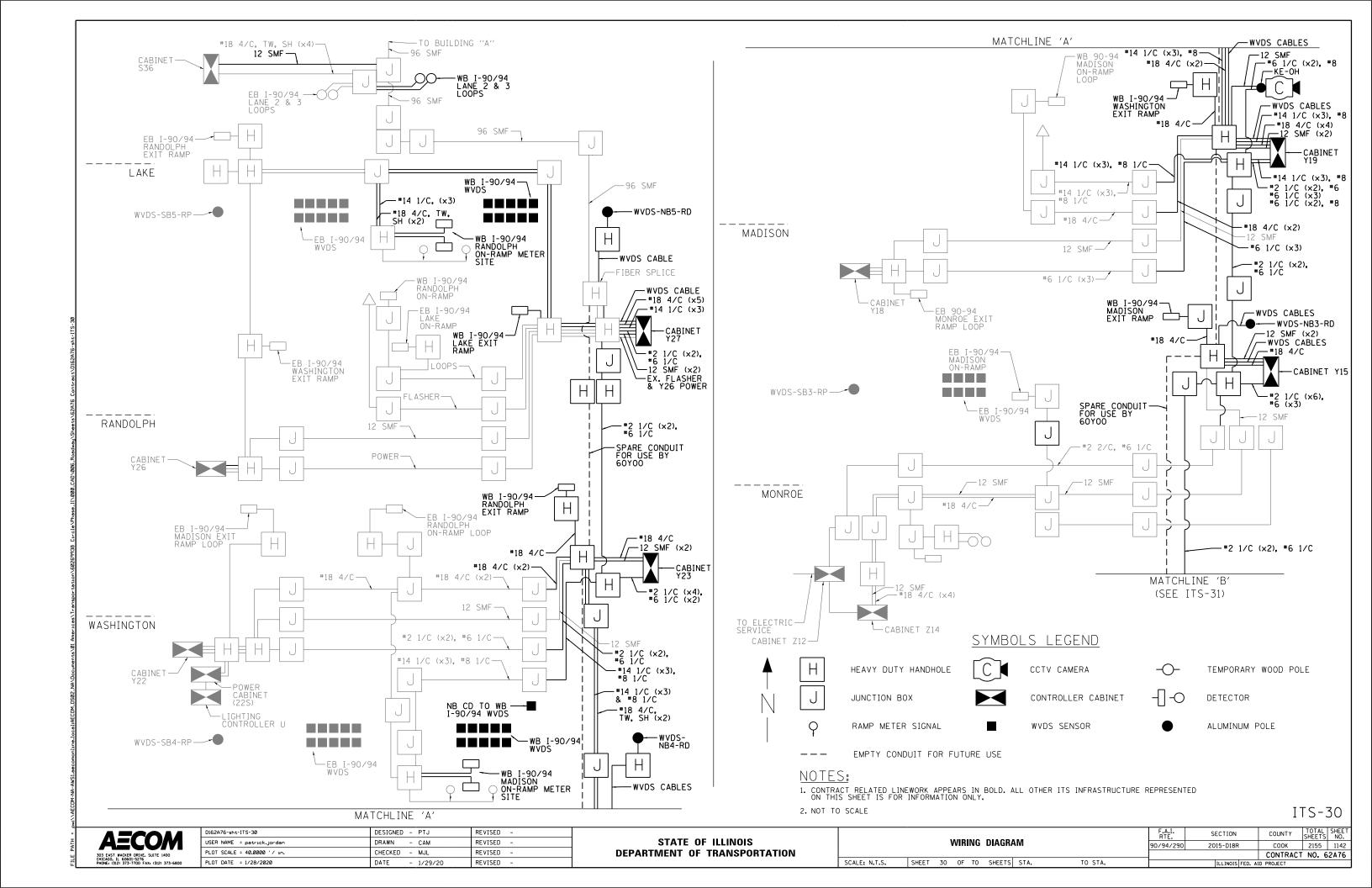
AECOM
303 EAST WACKER ORIVE. SUITE 1400
CHICAGO, IL 60601-5276
FHORE: 1312 373-700 FAX: (3121 373-6800

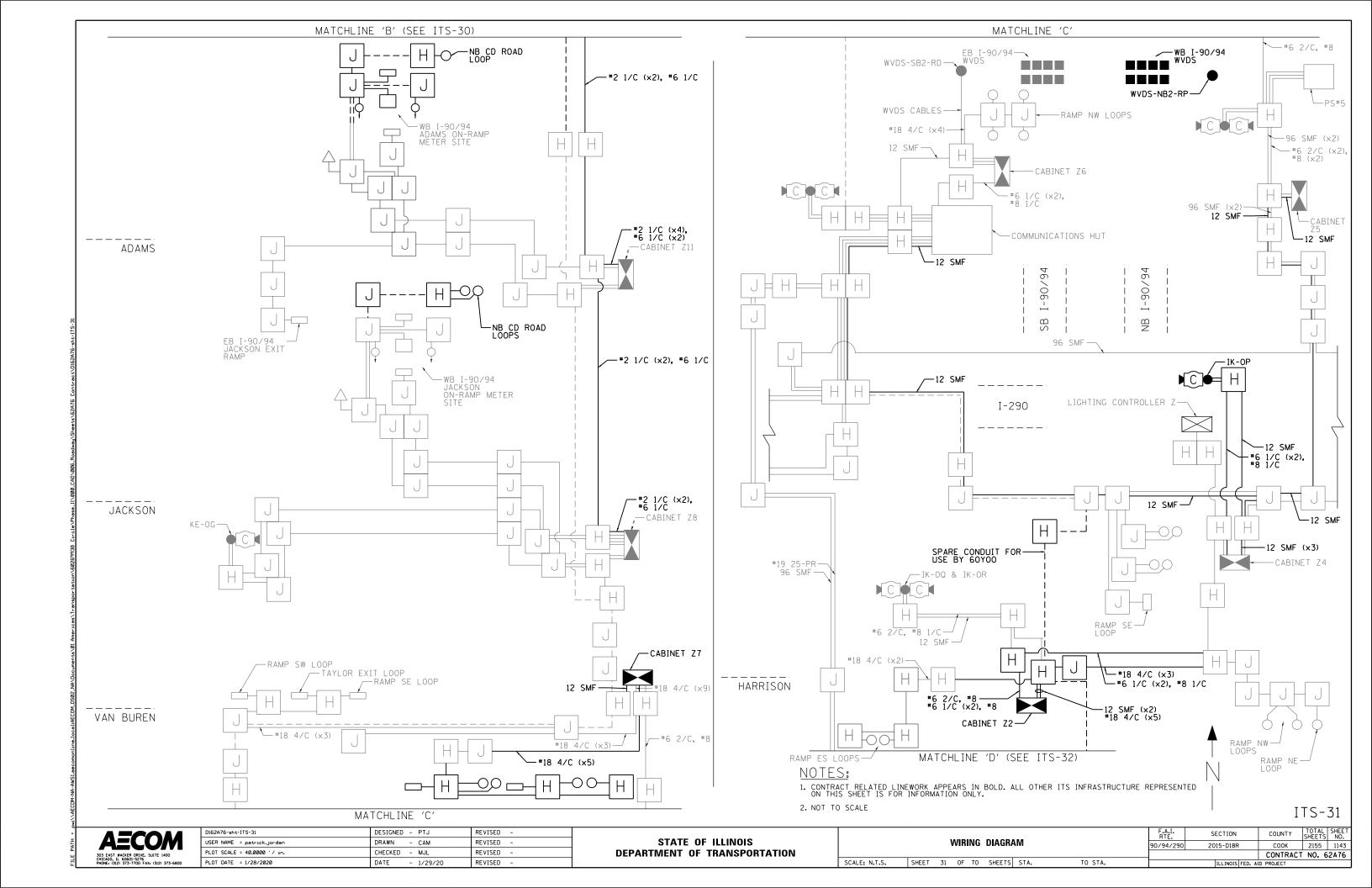
D162A76-Sht-ITS-29	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/27/2020	DATE - 1/29/20	REVISED -

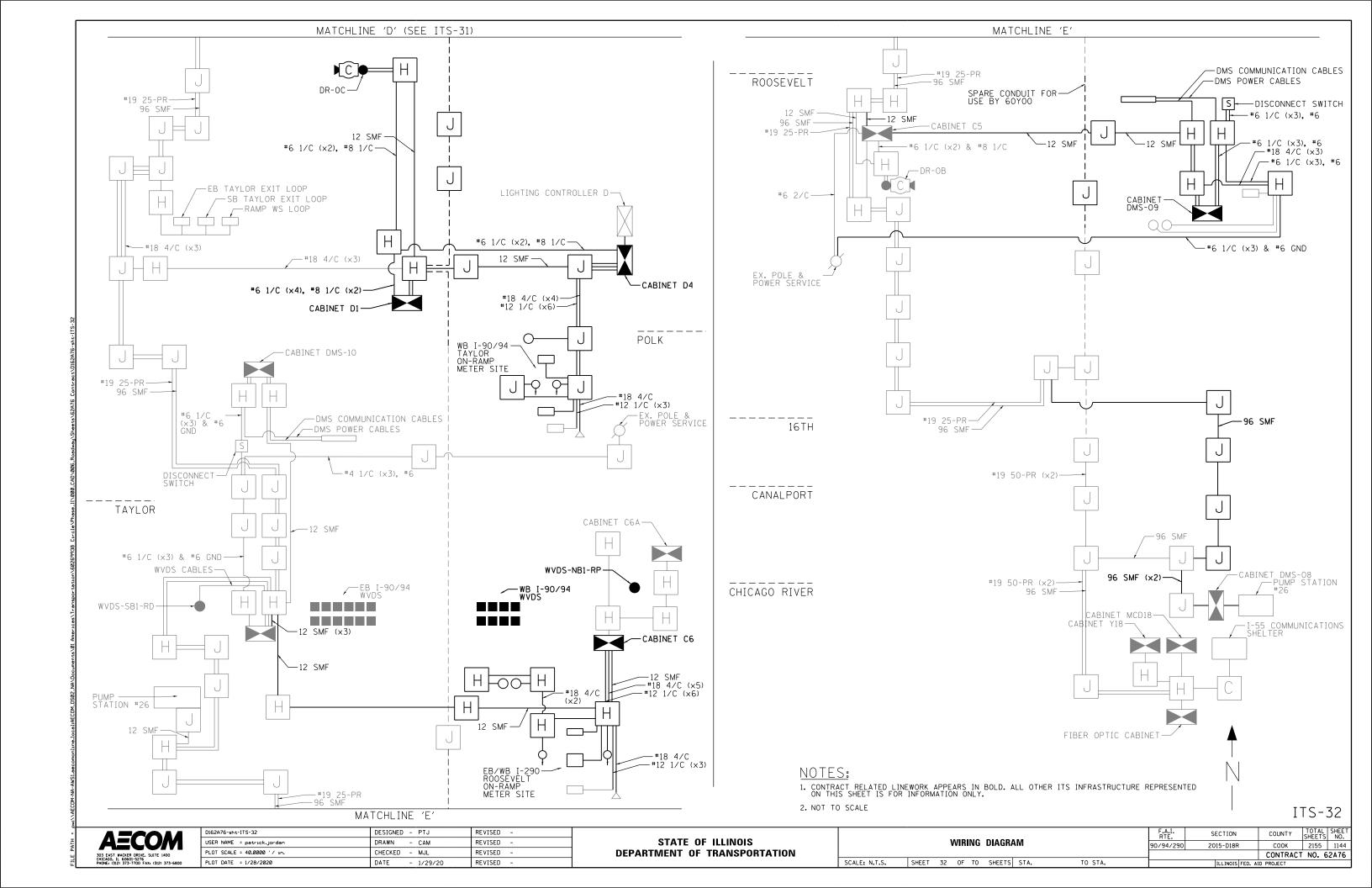
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN								
				NB	I-90/94	ļ		
SCALE: 1"=50"	SHEET	29	OF	70	SHEETS	STA. 58+00	TO STA.	

F.A.I. SECTION COUNTY TOTAL SHEET NO. 90/94/290 2015-D18R COOK 2155 1141 CONTRACT NO. 62A76

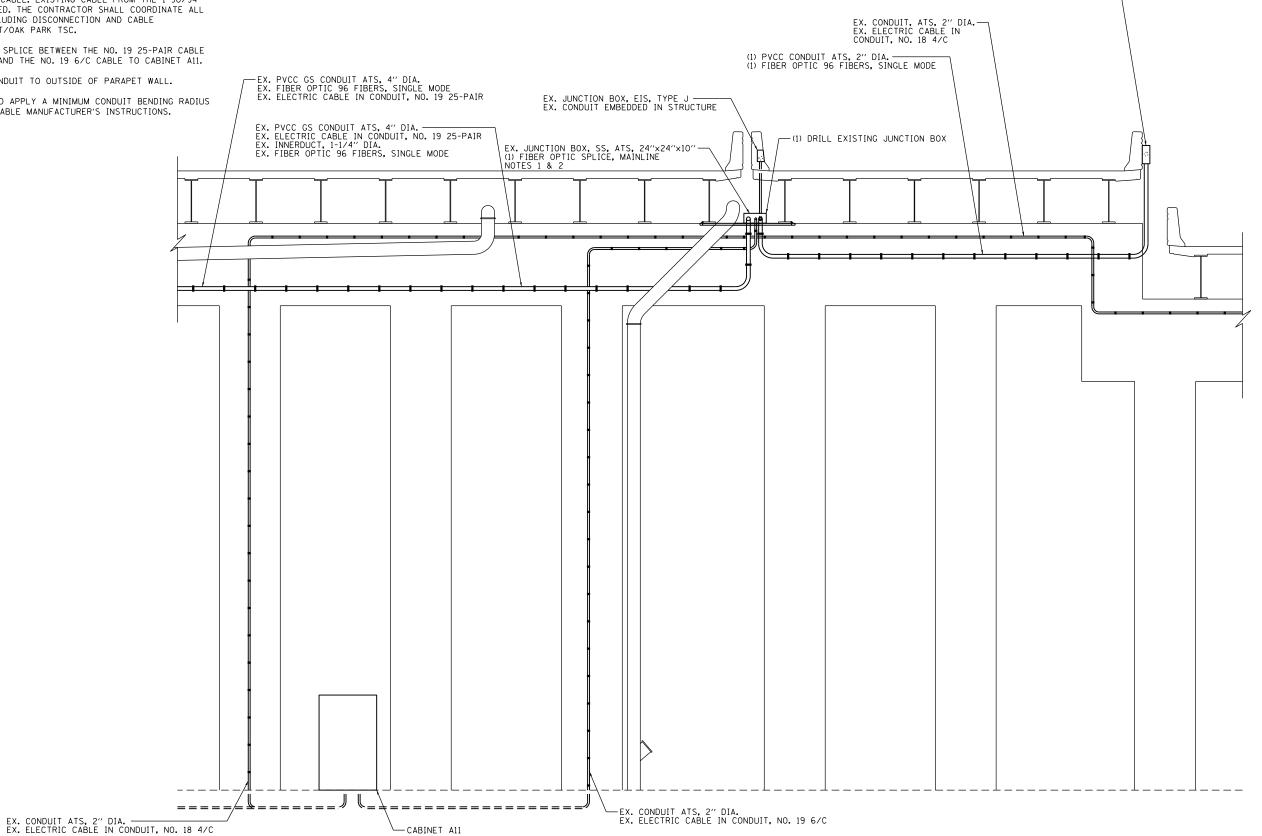








- 1. SPLICE THE EXISTING 96 SMF CABLE FROM THE WEST TO THE PROPOSED FIBER OPTIC CABLE. EXISTING CABLE FROM THE I-90/94 MEDIAN TO BE ABANDONED. THE CONTRACTOR SHALL COORDINATE ALL FIBER OPTIC WORK, INCLUDING DISCONNECTION AND CABLE ASSIGNMENTS, WITH IDOT/OAK PARK TSC.
- 2. MAINTAIN THE EXISTING SPLICE BETWEEN THE NO. 19 25-PAIR CABLE RUNNING TO THE WEST AND THE NO. 19 6/C CABLE TO CABINET A11.
- 3. ATTACH 2" PVCC GS CONDUIT TO OUTSIDE OF PARAPET WALL.
- 4. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.



PIER 1 (SN 016-1110)

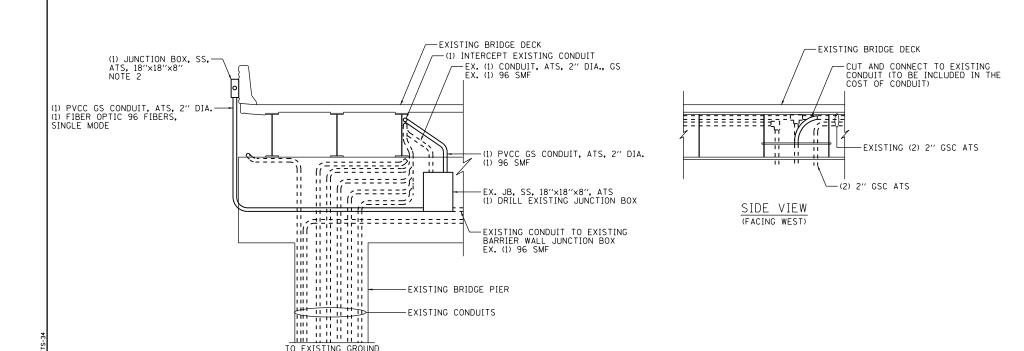
(LOOKING NORTH)

D162A76-sht-ITS-33	DESIGNED - PTJ	REVISED -
USER NAME = petrick.jorden	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / 10.	CHECKED - MJL	REVISED -
PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	N

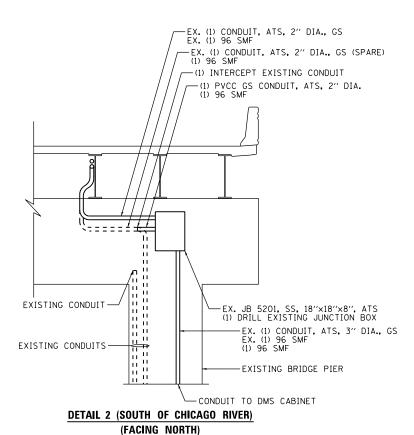
									F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ı	I–90⁄94 ITS PIER DETAIL						90/94/290	2015-D18R	соок	2155	1145		
ı											CONTRACT	r NO. (52A76
	SCALE: N.T.S.	SHEET	33	OF	70	SHEETS	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		

(1) JUNCTION BOX, SS, ATS, 18"x18"x8"-NOTE 3



DETAIL 1 (NORTH OF CHICAGO RIVER)
(FACING SOUTH)

NOT TO SCALE



NOT TO SCALE

AECOM303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 66601-5276
PHONE: (312: 373-7100 FAX: (312: 373-6800

D162A76-sht-ITS-34	DESIGNED - PTJ	REVISED -
USER NAME = nandan.baheti	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / 10.	CHECKED - MJL	REVISED -
PLOT DATE = 2/28/2020	DATE - 3/4/20	REVISED -

TO EXISTING GROUND MOUNTED CABINET

FRONT VIEW

(FACING NORTH)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.

L 00/04 ITC DIED DETAIL					F.A.I. RTE.	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
I-90/94 ITS PIER DETAIL				90/94/290	20	15-D18F	:	соок	2155	1146			
											CONTRAC	r NO. 6	2A76
SHEET	34	OF	70	SHEETS	STA.	TO STA.			ILLINOIS	FED. AII	D PROJECT		

ITS-34

NOTES:

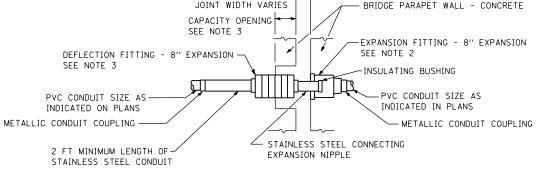
- 1. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.
- 2. ATTACH JUNCTION BOX AND 2" PVCC GS CONDUIT TO THE OUTSIDE OF THE PARAPET WALL. SEE "JUNCTION BOX MOUNTED TO STRUCTURE" AND "PVC COATED CONDUIT CLAMP" DETAILS ON SHEET E-32.
- 3. SUGGESTED SEQUENCE OF WORK FOR COMMUNICATIONS CABLE INSTALLATION:

A) AFTER INSTALLATION OF CONDUIT, PULL PROPOSED 96 SMF THROUGH EXISTING 2" CONDUIT ACROSS THE CHICAGO RIVER.

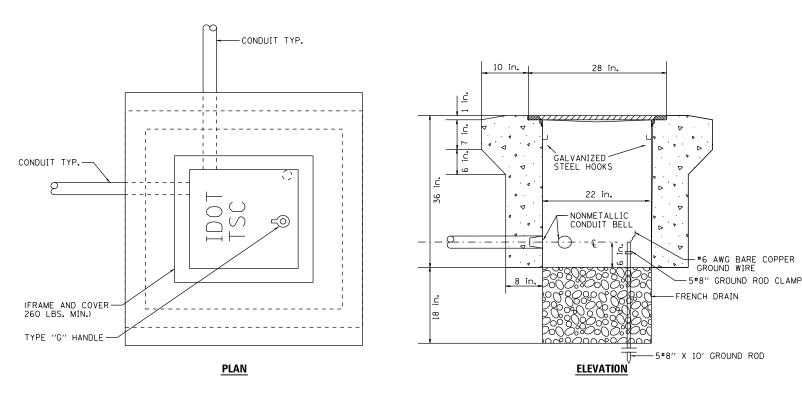
B) TERMINATE PROPOSED 96 SMF IN PUMP STATION #26 AND INSTALL PATCH CABLES TO ROUTE DATA PATHS TO EXISTING 96 SMF FOR THE DMS.

C) MODIFY FIBER TERMINATIONS AT THE I-55 COMMUNICATIONS SHELTER TO REASSIGN BACKBONE FIBER DATA PATHS TO THE 96 SMF PREVIOUSLY USED TO CARRY DMS DATA.

- 4. THE CONTRACTOR SHALL COORDINATE ALL FIBER OPTIC WORK, INCLUDING DISCONNECTION AND CABLE ASSIGNMENTS, WITH IDOT/OAK PARK TSC.
- 5. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE OPERATION OF THE COMMUNICATION SYSTEM IS NOT IMPACTED. WORK REQUIRING LANE CLOSURES SHALL ONLY BE EXECUTED ON WEEKENDS. HOLIDAY AND SPECIAL EVENT WEEKENDS SHALL BE EXCLUDED. THE CONTRACTOR SHALL COORDINATE AND RECEIVE PRIOR APPROVAL FROM THE ENGINEER FOR ALL WORK THAT COULD IMPACT THE OPERATIONAL SYSTEMS. REQUESTS FOR APPROVAL SHALL BE MADE TO THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO THE ACTUAL COMMENCEMENT OF WORK.



EXPANSION/DEFLECTION CONDUIT COUPLING DETAIL NOTES 1 AND 6



PC CONCRETE - HEAVY DUTY HANDHOLE

EXPANSION/DEFLECTION CONDUIT COUPLING DETAIL NOTES:

- THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION/DEFLECTION COUPLING AT THE JOINT LOCATIONS IN THE CONCRETE PARAPET ON THE BRIDGE CAPABLE OF ACCEPTING THE LONGITUDINAL MOVEMENT. ALL METALLIC PARTS OF THE COUPLING SHALL BE MADE OF STAINLESS STEEL OR AS APPROVED BY THE ENGINERR. ANY NON-STAINLESS METAL SHALL BE HOT DIP GALVANIZED AND COATED TO PREVENT REACTION WITH THE CONCRETE. THE COST OF THE COUPLING SHALL BE PART OF AND INCIDENTAL TO THE CONDUIT SYSTEM.
- 2. THE BARREL IN THE EXPANSION FITTING SHALL BE IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE COUPLING.
- 3. A CAVITY OPENING 3" LARGER IN DIAMETER THAN THE DEFLECTION FITTING SHALL BE PROVIDED IN THE CONCRETE TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
- 4. CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENSURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXEEDED AT TEMPERATURE EXTREMES.
- 5. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CAREFULLY FOLLOWED TO ENSURE OPTIMUM PERFORMANCE OF THE EXPANSION/DEFLECTION COUPLING.
- 6. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINTS AND SHALL BE RESPONSIBLE TO DETERMINE THE PROPER NUMBER OF COUPLINGS REQUIRED. SEE STRUCTURAL DRAWINGS FOR THE EXPANSION JOINT LOCATIONS.
- 7. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE TWO (2) STAINLESS STEEL JUNCTION BOXES ATTACHED TO THE BACK OF THE WALL AND CONNECTED BY A HIGH GRADE OF FLEXIBLE METAL CONDUIT FOR ALL EXPANSION JOINTS. THIS SUBSTITUTION SHALL BE MADE AT NO ADDITIONAL COST TO THE
- 8. EXPANSION/DEFLECTION COUPLINGS ARE INCIDENTAL TO THE COST OF THE CONDUIT.

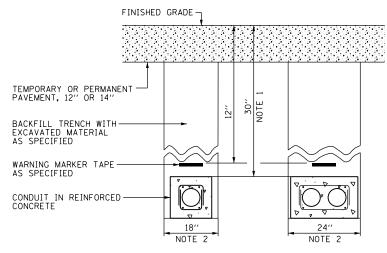
HEAVY DUTY HANDHOLE NOTES:

- 1. ALL METALLIC ELEMENTS SHALL BE GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), SECTION 250, GROUNDING. METAL COVERS AND OTHER EXPOSED
- 2. INSTALL HEAVY-DUTY HANDHOLE AS SHOWN ABOVE IN NARROW GORE OR SHOULDER

CONDUIT INSTALLATION DETAIL NOTES:

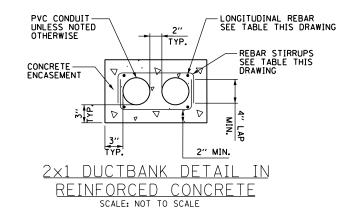
- 1. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.
- ATTACH 2" PVCC GS CONDUIT TO THE OUTSIDE OF THE PARAPET WALL. SEE "PVC COATED CONDUIT CLAMP" DETAILS ON SHEET E-32.
- 3. ATTACH 2" PVCC GS CONDUIT TO THE BEAM FLANGE. SEE "PVC COATED CONDUIT BEAM CLAMP" AND "CONDUIT BEAM CLAMPED INSTALLATION" DETAILS ON SHEET E-32.

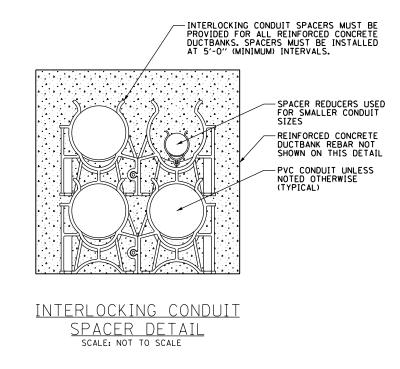
- CONDUCTIVE SURFACES SHALL BE BONDED IN ACCORDANCE WITH NEC ARTICLE 250.96 (A).
- PAVEMENT ONLY WHEN SPECIFIED IN THE PLANS.



TYPICAL CONDUIT UNDER PAVEMENT

CONDUI	T REINFORCE	EMENT TABLE
CONCRETE CROSS-	LONGITUDINAL REBAR	REBAR STIRRUPS
SECTIONAL AREA SO. INCHES	BARS	
LESS THAN 450	#4	#3 AT 12" SPACING
451 TO 650	# 5	#3 AT 12" SPACING
GREATER THAN 651	#6	#3 AT 12" SPACING





NOTES:

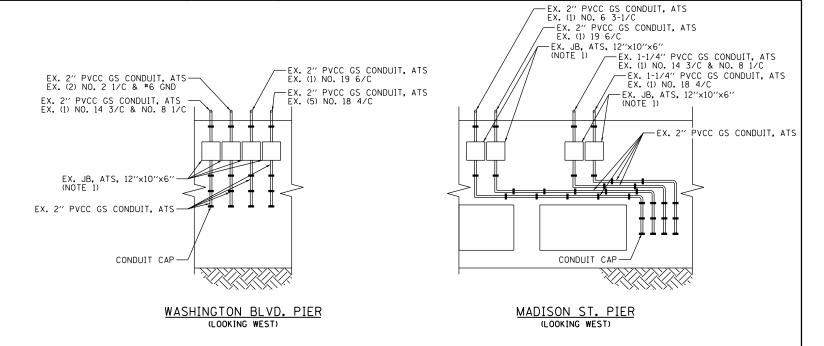
- 1. PROVIDE MINIMUM CLEARANCE SHOWN FROM TOP OF ENCASED CONDUIT TO FINISHED GRADE FOR ALL ENCASED CONDUITS, REGARDLESS OF SIZE. CONTRACTOR MUST INSTALL ENCASED CONDUITS SUCH THAT THEY WILL CLEAR ALL UNDERGROUND OBSTACLES.
- 2. TRENCH MUST HAVE MINIMUM WIDTH SHOWN FOR ALL ENCASED CONDUITS DETAILED ON THIS DRAWING. THE CONTRACTOR MUST INCREASE TRENCH WIDTH FOR ADDITIONAL CONDUITS, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.

AECOM

303 EAST WACKER DRIVE, SUITE 1400
CHICACO, IL 6060-15276
PHONE: (3)23 373-7700 FAX: (3)23 373-6800

DI62A76-sht-ITS-36 DESIGNED - PTJ REVISED -	
USER NAME = petrick.jorden DRAWN - CAM REVISED -	
PLOT SCALE = 40.0000 '/ In. CHECKED - MJL REVISED -	
PLOT DATE = 1/25/2020	

TO DETAIL O	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ITS DETAILS	0/94/290	2015-D18R	COOK	2155	1148
			CONTRACT	NO. 6	2A76
CALE: N.T.S. SHEET 36 OF 70 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

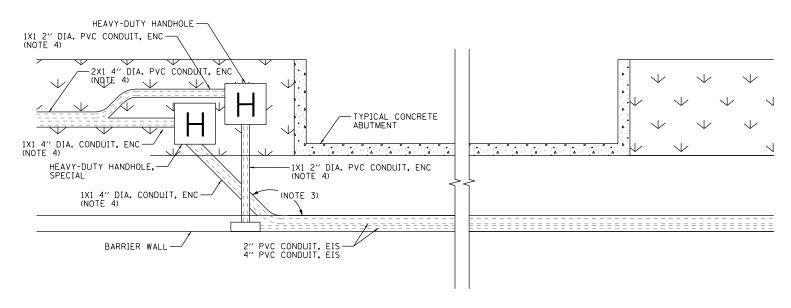


NOTES:

 PULL CABLES BACK TO THE JUNCTION BOXES ATTACHED TO MONROE ABUTMENT, WASHINGTON PIER, AND MADISON PIER. COIL SUFFICIENT LENGTH OF CABLE IN THE JUNCTION BOXES TO ALLOW PROPOSED CABLES TO SPLICE WITH THE EXISTING CABLES.

(LOOKING SOUTH)

- 2. REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE THAT WILL BE AFFECTED BY THE PROPOSED ROADWAY CONSTRUCTION. PRESERVE THE REMAINING EXISTING CONDUIT BY STUBBING AND CAPPING. THIS WORK WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT" PAY ITEM.
- 3. THE CONTRACTOR SHOULD APPLY A MINIMUM CONDUIT BENDING RADIUS PER THE FIBER OPTIC CABLE MANUFACTURER'S INSTRUCTIONS.
- 4. SEE SHEET ITS-36 FOR DUCTBANK DETAIL IN REINFORCED CONCRETE.



CONDUIT ROUTING AROUND ABUTMENT NOT TO SCALE

ITS-37

COOK 2155 1149

CONTRACT NO. 62A76

COUNTY

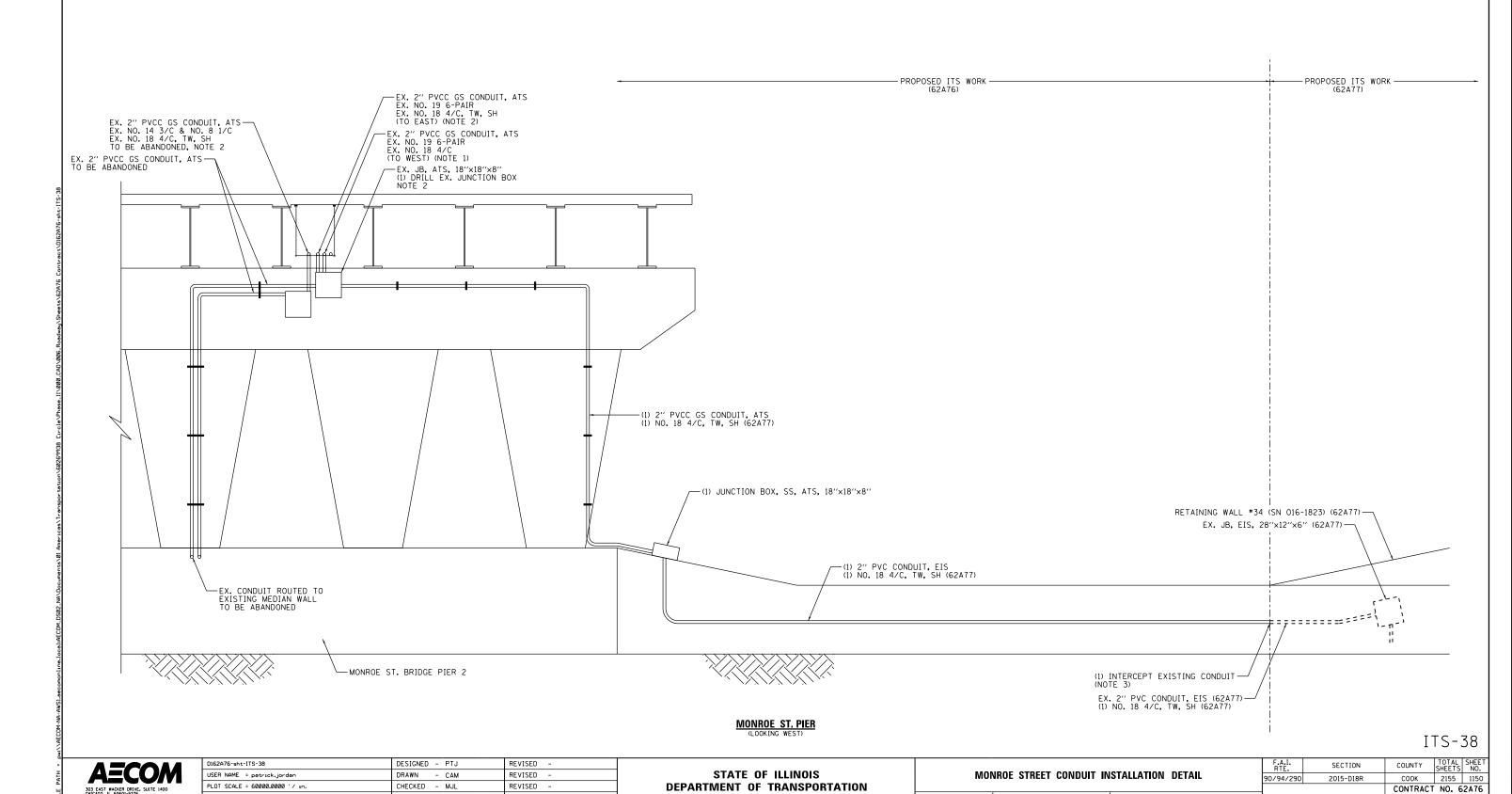


D162A76-sht-ITS-37	DESIGNED - PTJ	REVISED -	
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -	
PLOT SCALE = 60000.0000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -	

NOTES:

SCALE: N.T.S. SHEET 38 OF 70 SHEETS STA.

- I. CONDUIT TO WEST: EXISTING DETECTOR CABLE FOR THE SB MADISON ENTRANCE RAMP LOOP SHALL REMAIN. EXISTING DETECTOR CABLE FOR SB MAINLINE LOOPS AND EXISTING NO. 19 6-PAIR COMMUNICATION CABLE SHALL BE REMOVED.
- 2. CONDUIT TO EAST: EXISTING DETECTOR CABLE FOR THE NB MAINLINE LOOPS AND SB ADAMS STREET RAMP METER SHALL BE REMOVED. EXISTING RAMP METER CABLE AND NO. 19 6-PAIR COMMUNICATION CABLE SHALL BE REMOVED.
- 3. INTERCEPT EXISTING CONDUIT EMBEDDED IN BARRIER WALL INSTALLED UNDER CONTRACT 62A77.

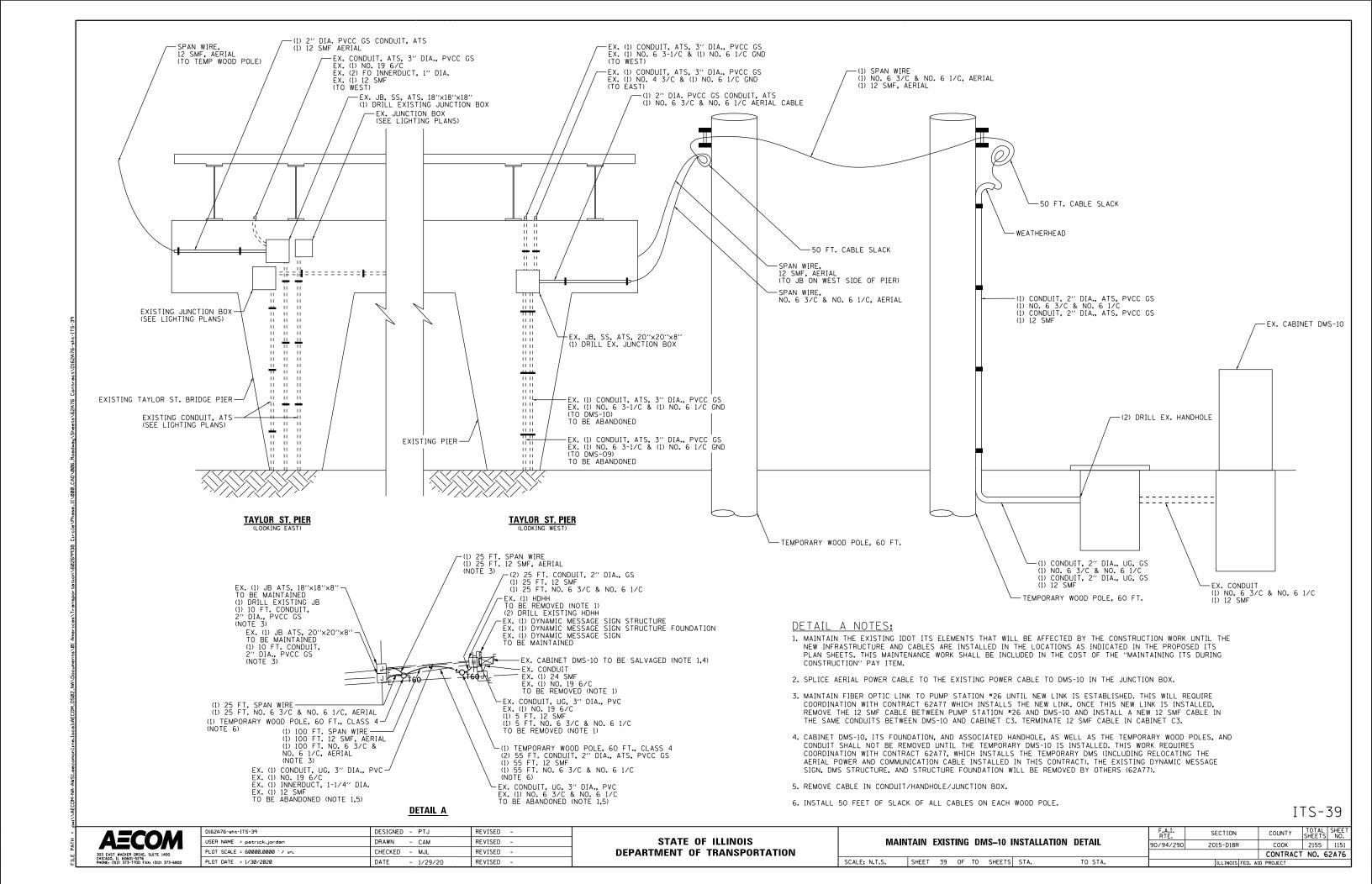


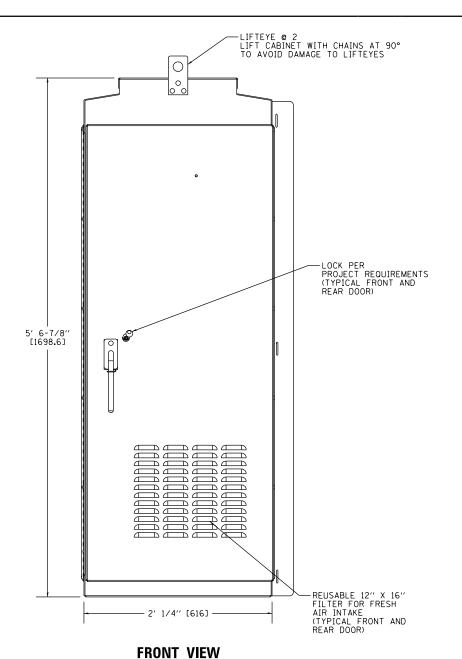
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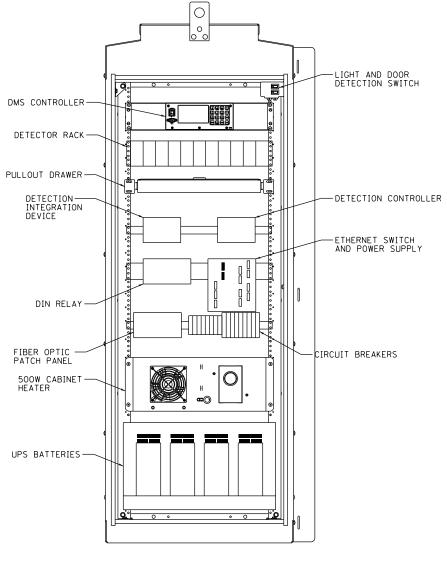
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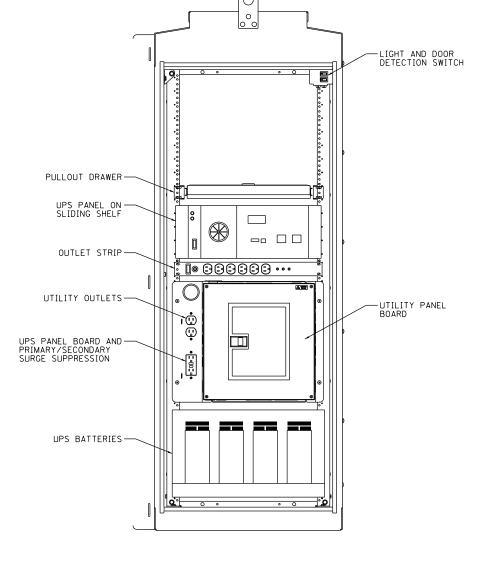
- 1/29/20

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POWER COMPARTMENT (NO DOORS SHOWN)

COMMUNICATIONS COMPARTMENT (NO DOORS SHOWN)

TRAFFIC CABINET NOTES:

- 1. CABINET SPECIFICATIONS:

 -ALL DIMENSIONS IN FEET & INCHES [MM], UNLESS OTHERWISE SPECIFIED

 -0.125" MILL FINISH ALUMINUM 5052-H32 CONSTRUCTION

 WITH CONTINUOUSLY WELDED EXTERNAL SEAMS

 - -THREE POINT LATCH WITH SST HANDLE
 - -DOUBLE FLANGED DOOR SEAL WITH 1/2" X 2" CLOSED CELL NEOPRENE GASKET
 - -FULL LENGTH EIA GAGE FOR 19" EQUIPMENT

 - -NEMA 3R ENCLOSURE -ALL STAINLESS STEEL HARDWARE WITH FULL LENGTH

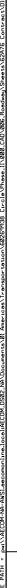
 - STAINLESS STEEL HINGE.
 -DOOR OPENING: 56.750" X 21.750"
- 2. ALL MODIFICATIONS TO CABINET MUST MAINTAIN NEMA 3R RATING.

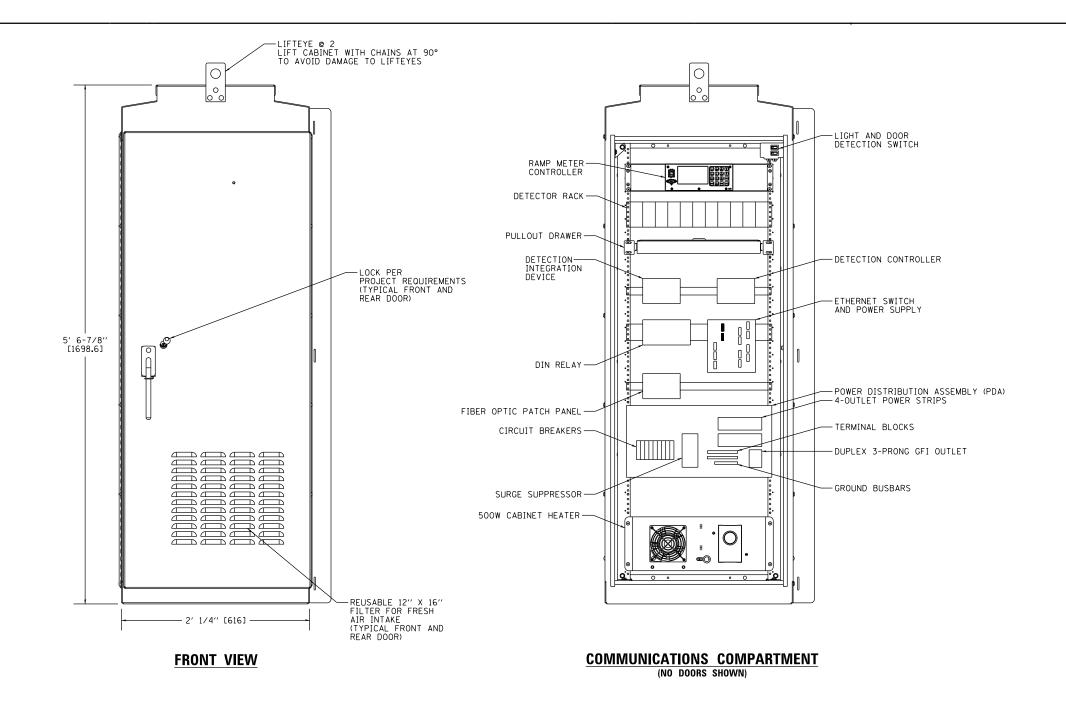
ITS-40



D162A76-sht-ITS-40	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 '/ in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -

F.A.I. RTE. COUNTY SECTION COOK 2155 1152 90/94/290 2015-D18R CONTRACT NO. 62A76





TRAFFIC CABINET NOTES:

- 1. CABINET SPECIFICATIONS:

 -ALL DIMENSIONS IN FEET & INCHES [MM], UNLESS OTHERWISE SPECIFIED

 -0.125" MILL FINISH ALUMINUM 5052-H32 CONSTRUCTION

 WITH CONTINUOUSLY WELDED EXTERNAL SEAMS

 -THREE POINT LATCH WITH SST HANDLE

 - -DOUBLE FLANGED DOOR SEAL WITH 1/2" X 2" CLOSED CELL NEOPRENE GASKET

 - -FULL LENGTH EIA GAGE FOR 19" EQUIPMENT -NEMA 3R ENCLOSURE

 - -ALL STAINLESS STEEL HARDWARE WITH FULL LENGTH
 - STAINLESS STEEL HINGE.
 -DOOR OPENING: 56.750" X 21.750"
- 2. ALL MODIFICATIONS TO CABINET MUST MAINTAIN NEMA 3R RATING.

D162A76-sht-ITS-41	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
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PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABINET	, MODEL	334	EQUIF	PMENT,	RAMP	METER DETAIL	
SCALE: N.T.S	SHEET	41 (DF 70	SHEETS	STA	TO STA	

COUNTY TOTAL SHEET NO.

COOK 2155 1153 F.A.I. RTE. SECTION 90/94/290 2015-D18R CONTRACT NO. 62A76

TYPICAL DETAIL CONCRETE BASE, CONTROLLER CABINET

CABINET DETAIL CONCRETE BASE MOUNTED (MODEL 334)

NOTES:

- 1. INSTALL FOUR 3*4 INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE CABINET BASES. THE ANCHOR BOLTS SHALL BE GALVANIZED STEEL AND LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.
- CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL, PRIOR TO CABINET INSTALLATION. 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 INCH.
- 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.

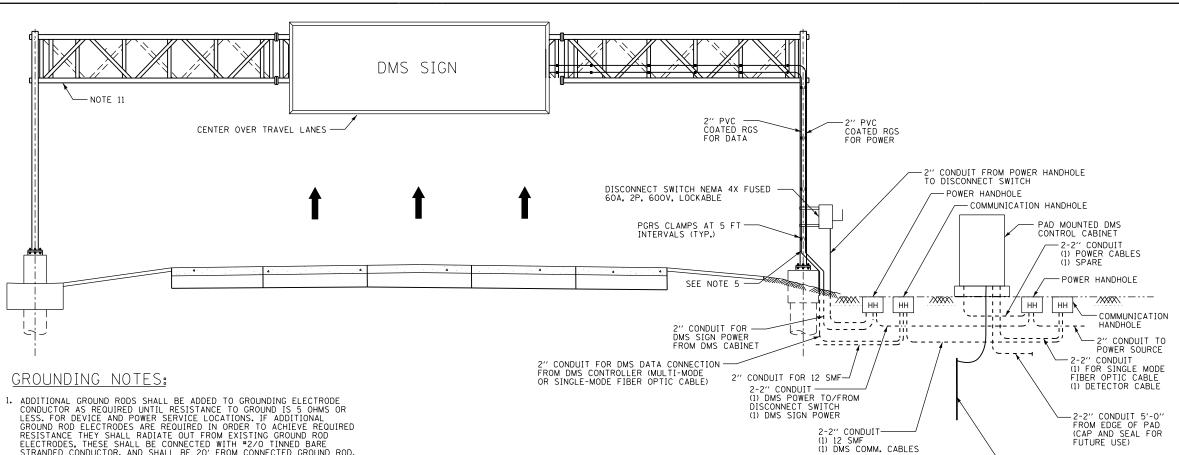
- 11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
- 12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
- 13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE BUSHINGS AND ALL NON METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.
- 14. REFER TO SPECIAL PROVISIONS FOR CABINET DETAILS AND ADDITIONAL REQUIREMENTS.
- 15. CABINET ENTRIES INCLUDE VERTICAL ARRANGEMENT FOR MAJOR EQUIPMENT ITEMS ONLY.
- 16. INSTALL ADDITIONAL ITEMS ON SIDE AND BACK PANELS PER THE SPECIAL PROVISIONS.
- 17. THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
- 18. CONCRETE BASE TO BE FORMED AT LEAST 6" ABOVE THE GROUND SURFACE.
- 19. ALL WORK INDICATED SHALL BE PAID FOR UNDER ITEM CABINET, MODEL 334 EXCLUSIVE OF THE CONCRETE FOUNDATION.
- 20. CABINET BOTTOM CONFIGURATION SHALL BE AS DIRECTED BY THE ENGINEER.



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JSER NAME = patrick.jordan	DRAWN - CAM	REVISED -
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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

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CABINET, MODEL 334 FOUNDATION DETAIL	90/94	94/290 201	5-D18R	COOK 215	5 11	.54
			С	ONTRACT NO.	62A	76
SHEET 42 OF 70 SHEETS STA T	TO STA	I,	LI INOIS EED AID DD	O IECT		\neg



- GENERAL NOTES:
- 1. FURNISH AND INSTALL LOCKABLE SERVICE DISCONNECT AT EACH PROPOSED SIGN STRUCTURE LOCATION.
- 10KVA, 480V-120/240V SINGLE PHASE TRANSFORMER SHALL BE MOUNTED ABOVE DISCONNECT WHEN INCOMING SERVICE IS 480V AND NEEDS TO BE STEPPED DOWN.
- 3. THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS.
- 4. NEUTRAL AND GROUNDING SHALL BE BONDED AT SERVICE ENTRANCE DISCONNECT.
- 5. ALL UNDERGROUND CONDUITS SHALL BE RGS AND ABOVE GRADE CONDUITS SHALL BE PVC COATED RGS, OR AS SHOWN ON THE PLANS. COUPLERS SHALL BE UTILIZED WHEN TRANSITIONING FROM RGS TO PVC COATED RIGID GALVANIZED STEEL (RGS).
- 6. MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING, HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.
- 7. CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO VOLTAGE DROP.
- 8. ALL ELECTRICAL WORK FOR DMS SHALL BE PAID UNDER PAY ITEM "DYNAMIC MESSAGE SIGN, WALK-IN ACCESS, FULL MATRIX, COLOR, NTCIP 1203".
- 9. THIS SCHEMATIC IS FOR GUIDANCE ONLY, CONTRACTOR SHALL WIRE THE DMS CABINET IN FULL COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS.
- 10. REFER TO IDOT STANDARD DRAWINGS FOR OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) STRUCTURE DETAILS.

F.A.I.

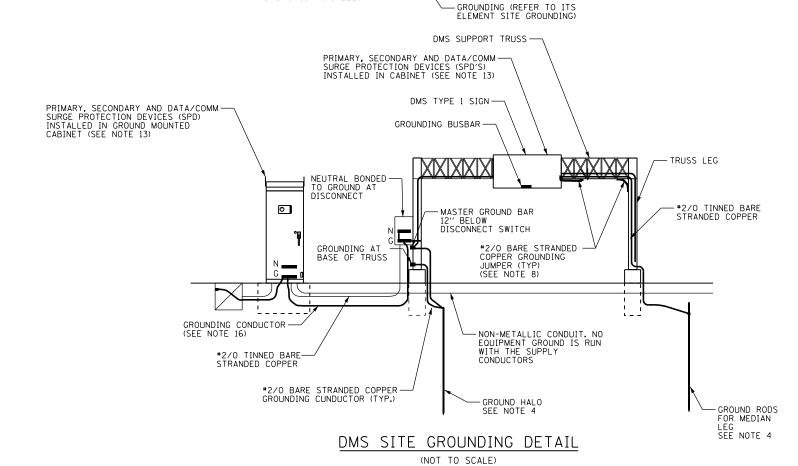
90/94/290

TO STA.

SECTION

2015-D18R

11. FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN DMS CONTROLLER CABINET.



- ADDITIONAL GROUND RODS SHALL BE ADDED TO GROUNDING ELECTRODE CONDUCTOR AS REQUIRED UNTIL RESISTANCE TO GROUND IS 5 OHMS OR LESS. FOR DEVICE AND POWER SERVICE LOCATIONS. IF ADDITIONAL GROUND ROD ELECTRODES ARE REQUIRED IN ORDER TO ACHIEVE REQUIRED RESISTANCE THEY SHALL RADIATE OUT FROM EXISTING GROUND ROD ELECTRODES, THESE SHALL BE CONNECTED WITH #2/O TINNED BARE STRANDED CONDUCTOR, AND SHALL BE 20' FROM CONNECTED GROUND ROD. ALL COMMUNICATION EQUIPMENT GROUNDING SITES SHALL BE TESTED FOR RESISTANCE TO GROUND USING THE THREE-POINT FALL-OF-POTENTIAL TEST PER ANSI/IEEE STD 81. SEE ITS ELEMENT SITE GROUNDING SPECIAL PROVISION FOR PROCEDURES.
- 2. GROUND RODS SHALL NOT BE ROUTED THROUGH FOUNDATIONS.
- 3. FENCES, GUARDRAIL AND OTHER METALLIC STRUCTURES WITH PATHS TO GROUND SHALL BE CONNECTED TO EQUIPMENT GROUND IF THEY ARE LOCATED WITHIN 25' OF THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT GROUNDED TO THE GROUNDING ELECTRODE SYSTEM.
- 4. GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE UNLESS INSTALLED IN MEDIAN, UNDER SHOULDERS OR PAVEMENT.
- ALL EQUIPMENT GROUNDS SHALL BE PROPERLY CONNECTED TO A CHASSIS: ALL PAINT AND OTHER COATINGS, INCLUDING GALVANIZATION, SHALL BE REMOVED PRIOR TO TERMINATION OF A GROUND, AFTER THE GROUND IS TERMINATED A NON-OXIDIZING COATING SHALL BE PAINTED OVER THE EXPOSED METAL SURFACES.
- GROUNDING ELECTRODE SYSTEM CONNECTIONS TO FENCING SHALL BE MADE USING HEAVY DUTY TINNED LISTED PIPE CLAMPS DESIGNED FOR GROUNDING AND STAINLESS
- 7. ALL GROUNDING DIAGRAMS ARE SCHEMATIC ONLY.
- . ALL METALLIC MEMBERS OF THE DMS TRUSS AND THE DMS SIGN WITHIN 6 FEET OF EACH OTHER SHALL BE BONDED TOGETHER. WELDS SHALL BE CONSIDERED AN ACCEPTABLE BONDING METHOD. U-BOLT CONNECTIONS SHALL NOT BE CONSIDERED AN ACCEPTABLE BONDING METHOD.
- 9. AT LEAST AN 8 INCH MINIMUM BENDING RADIUS SHALL BE MAINTAINED ON ALL GROUNDING ELECTRODE CONDUCTORS. THE ANGLE OF ANY BENDING SHALL NOT BE
- 10. GROUNDING CONDUCTORS SHALL ALWAYS ROUTE AS STRAIGHT AS POSSIBLE. "U" FORM JUMPERS SHALL BE ACCEPTABLE ONLY FOR GATES AND DOORS.
- 11. THE QUANTITY OF GROUNDING ELECTRODE CONDUCTORS CONNECTED TO A GROUND ROD ELECTRODE SHALL BE LIMITED TO THREE.
- 12. WHENEVER POSSIBLE, GROUND ROD ELECTRODES SHALL BE INSTALLED NO CLOSER THAN 11' FROM A FOUNDATION.
- 13. EVERY COPPER CONDUCTOR OR CABLE ENTERING OR LEAVING A DMS ENCLOSURE, THE DMS CONTROLLER, OR THE CCTV ELECTRONICS ENCLOSURE SHALL BE PROTECTED, WITH A SURGE PROTECTION DEVICE (SPD).
- 14. DIAGRAM OMITS EQUIPMENT GROUNDING INSIDE ENCLOSURES.
- 15. GROUNDING CONDUCTOR SHALL BE #2/0 TINNED BARE STRANDED COPPER. CONTRACTOR SHALL INSTALL GROUND RODS AS NECESSARY TO ENSURE GROUND RESISTANCE AT DMS CABINET IS 5 OHMS OR LESS.
- 16. IF THERE IS A METAL HANDRAIL WITHIN 20 FEET OF CONTROL CABINET CONNECT HANDRAIL TO GROUNDING SYSTEM WITH #2/0 TINNED BARE STRANDED COPPER

A*ECOM*

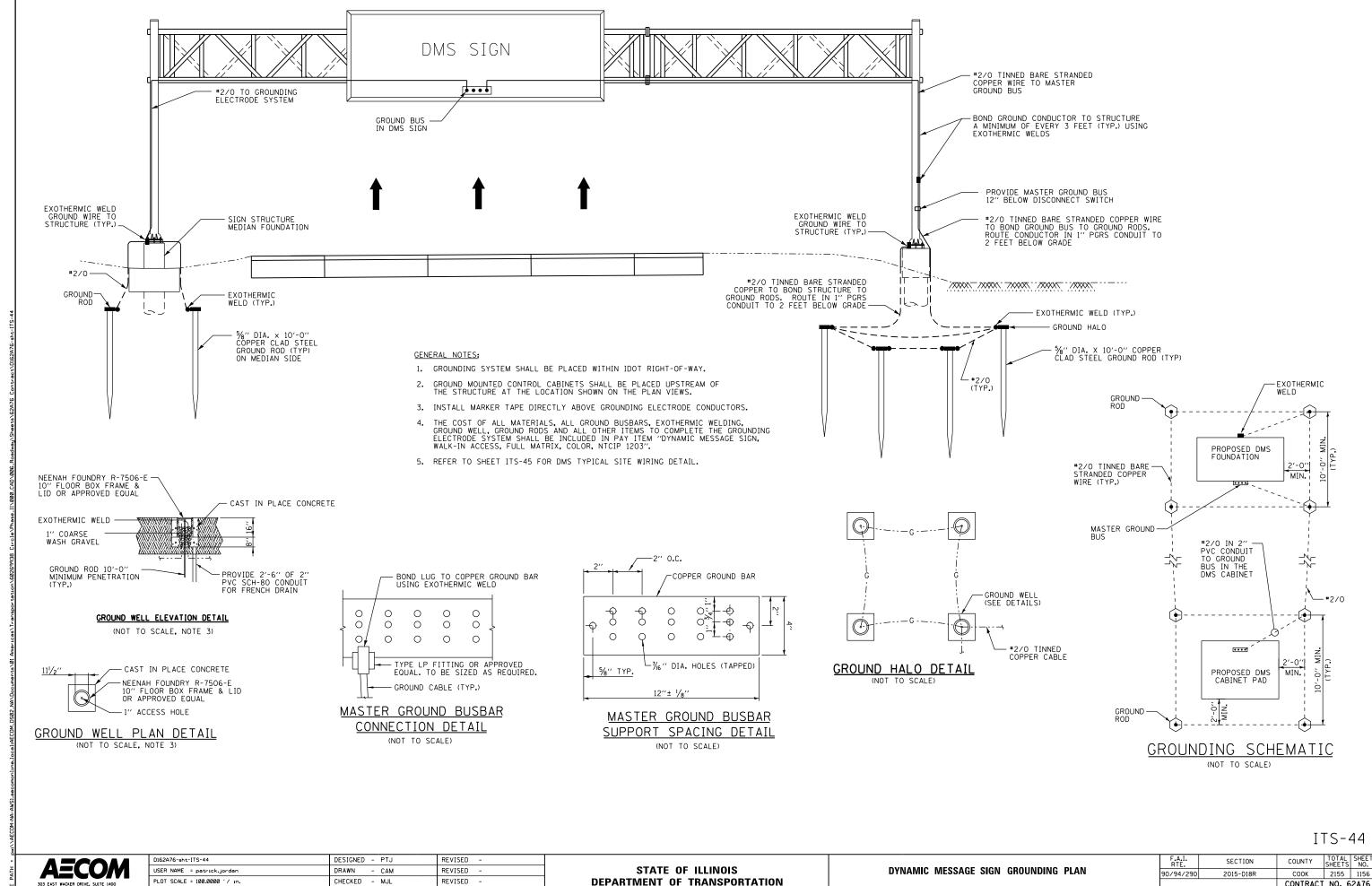
D162A76-sht-ITS-43 DESIGNED - PTJ REVISED STATE OF ILLINOIS USER NAME = patrick.jordan DRAWN - CAM REVISED DYNAMIC MESSAGE SIGN SITE PLAN PLOT SCALE = 100.0000 '/ in. CHECKED - MJL REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: N.T.S. SHEET 43 OF 70 SHEETS STA. PLOT DATE = 1/25/2020 DATE REVISED - 1/29/20

ITS-43

COOK 2155 1155

CONTRACT NO. 62A76

COUNTY



PLOT DATE = 1/25/2020

DATE

- 1/29/20

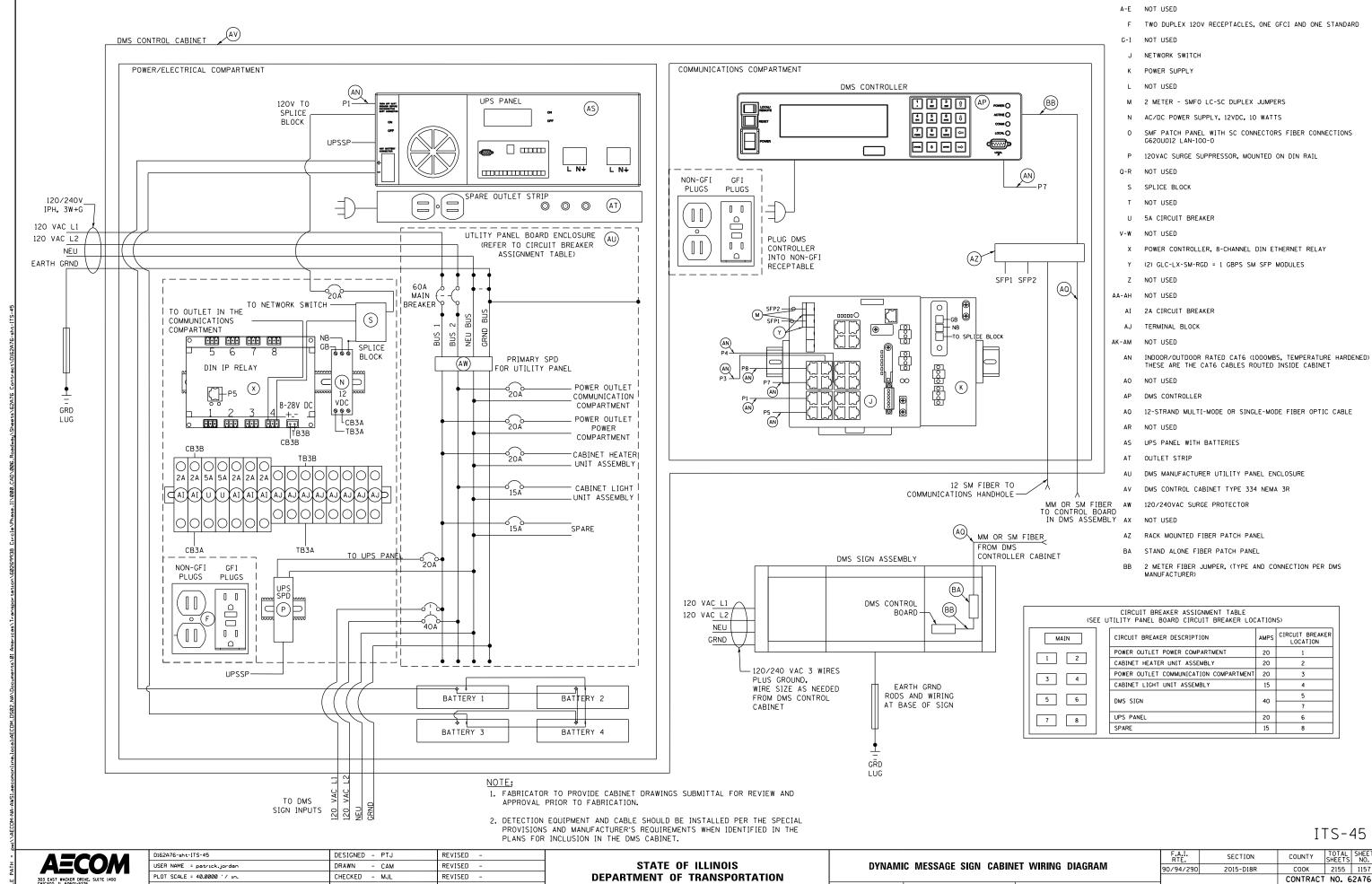
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SCALE: N.T.S.

SHEET 44 OF 70 SHEETS STA.

TO STA.

CONTRACT NO. 62A76



PLOT DATE = 1/25/2020

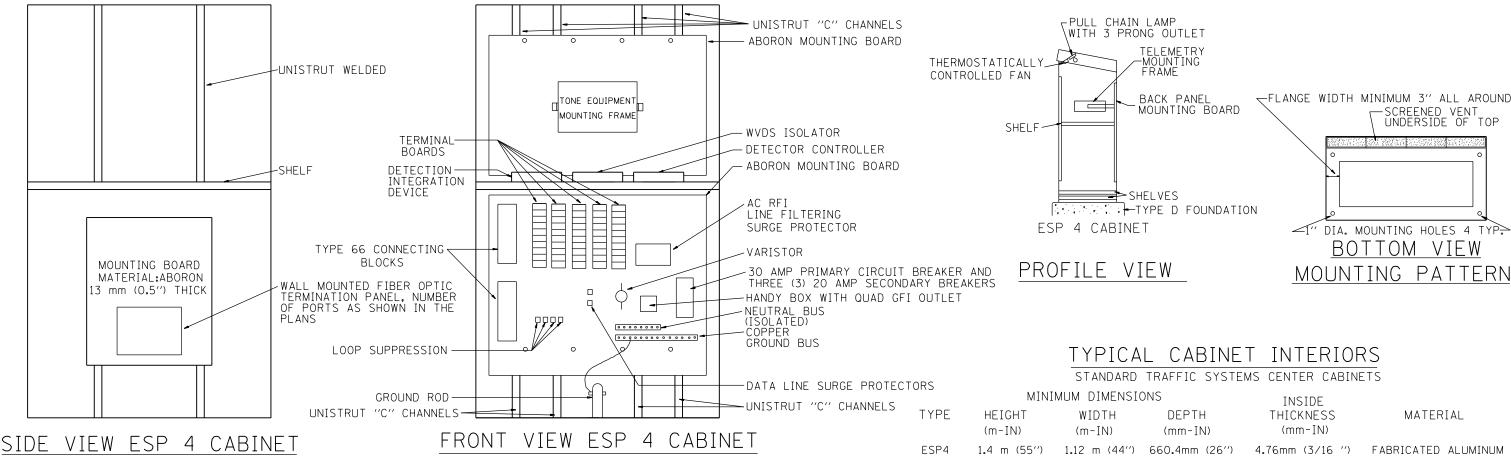
DATE

- 1/29/20

REVISED

SCALE: N.T.S. SHEET 45 OF 70 SHEETS STA.

ITEM DESCRIPTION



NOTES:

- 1. CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
 THE COLOR OF THE FINAL COAT SHALL BE AS LISTED IN THE CABINET COLOR SCHEME LIST ON THIS SHEET. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE
 FEDERAL YELLOW 89-19(MAUTZ).
- 2. CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- 3. ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 30 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, DATA SURGE AND LOOP SURGE PROTECTORS AS INCIDENTAL TO THE COST OF THE CABINET.
- 4. ESP 4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 48.8 m (160') OF STATIC WATER PRESSURE. A PORCLAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- 5. INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 130mm (5 INCH) PCC SIDEWALK OF A RECTANGULAR AREA 915 mm (3 FEET) BY 1.25 m (4 FEET) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
- 6. ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- 7. ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- 8. THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 6.35 mm (0.25 INCH) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- 9. THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS
 WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 6.35 mm (0.25 INCH) BY 19.05 mm (0.75 INCH), MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 22.22 mm (0.875 INCH)
 AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 3.55 mm (0.14 INCH) STEEL, MIMIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED.
 THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK.
 THE HANDLE WILL BE STAINLESS STEEL WITH A 19.05 mm (0.75 INCH) DIAMETER SHANK.
- 10. THE ENCLOSURE SHALL BE EQUIPPED WITH TWO "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.
- 12. ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- 13. ESP TYPE 4 CABINETS FITTED WITH SHELVES AS SHOWN.
- 14. POST TOP MOUNTED CABINETS, SHALL HAVE A 6.3 mm (0.25 INCH) BOTTOM OF CABINET WELDED.
- 15. THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS, FLAT WASHERS SHALL BE INSTALLED BELOW AND
 ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

CABINET COLOR SCHEME

WALNUT * KENNEDY BLUE STREAK ** **EISENHOWER** CARIBBEAN BLUE * I-290/IL53/I-355 POST OFFICE BLUE ** RYAN YELLOW STONE II ** I-55 MEDIUM BRONZE * RED BARON ** I-57 BLUE STREAK ** CAL-KING LAKE SHORE DR. GREEN * I-80 STATUARY BRONZE **

ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.

- * MORTON POWDER PAINT COLOR OR EQUIVALENT.
- ** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
- *** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

ITS-46

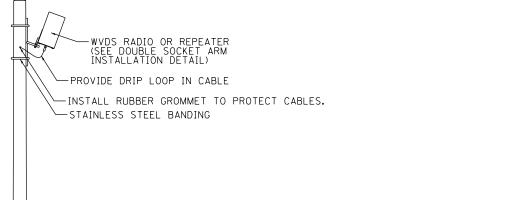
AECOM303 EAST WACKER DRIVE. SUITE 1400
CHICAGO, II. 66601-5276
PHONE; (131) 273-7700 FAX; (312) 373-6800

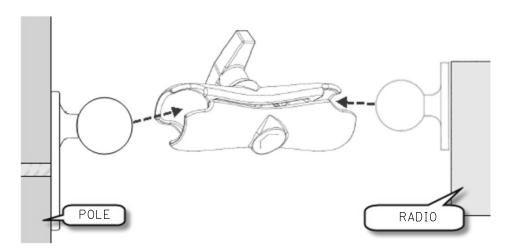
| DESIGNED - PTJ | REVISED - | USER NAME = potrick.jordon | DRAWN - CAM | REVISED - | PTJ | PTJ | REVISED - | PTJ | REVISED - | PTJ | PTJ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET EQUIPMENT, SYSTEM DETECTOR DETAIL

SCALE: N.T.S. | SHEET 46 OF 70 SHEETS STA. TO STA.





DOUBLE SOCKET ARM INSTALLATION DETAIL

WVDS SCHEDULE OF QUANTITIES

LOCATION	STATION	OFFSET	BASELINE	LIGHT POLE, SPECIAL (EACH)	CONCRETE FDN, TYPE E (FEET)	WVDS RADIO (EACH)	WVDS REPEATER (EACH)	WVDS SENSOR (EACH)	WVDS ISOLATOR (EACH)	WVDS CONTROLLER (EACH)	WVDS INTEGRATION DEVICE (EACH)	ETHERNET SWITCH (EACH)
WVDS-NB1-RP	6112+35.00	97.00′ RT	P-KDR-NB	1	10	0	1	8	0	0	0	0
WVDS-NB2-RP	6138+75.00	60.00' RT	P-KDR-NB	1	10	0	1	8	0	0	0	0
WVDS-NB3-RD	6348+03.14	40.00' RT	P-NCD-NX	1	10	1	0	0	1	1	1	1
WVDS-NB4-RD	6354+06.83	51.55′ RT	P-NCD-NX	1	10	1	0	11	1	1	1	1
WVDS-NB5-RD	6172+75.00	90.00′ RT	P-KDR-NB	1	10	1	0	10	1	1	1	1
TOTAL:				5	50	3	2	37	3	3	3	3

2-2" (50 mm) GS CONDUIT.

2-2" (50 mm) GS CONDUIT.

30" DIA.

GROUND ROD

3/4" DIA. × 10'

4"X8" (101.6 MM X 203.2 MM) HANDHOLE FRAME & COVER

GROUND LUGS

BARE NO. 6 COPPER GROUND IN 25 MM PVC

TYPE "E" CONCRETE FOUNDATION IN ACCORDANCE WITH STATE STANDARD 878001-10 (EXCEPTIONS AS NOTED)

EXOTHERMIC WELD TO REINFORCING STEEL AND ANCHOR BOLTS.

EXOTHERMIC WELD

GROUND ROD

3/4" DIA. × 10'

NOTES

- 1. REFER TO ITS PLAN SHEETS FOR PROPOSED WVDS SITES.
- 2. SEE COMMUNICATIONS SCHEMATIC DETAILS FOR CABINET EQUIPMENT CONNECTIONS.

POLE ELEVATION

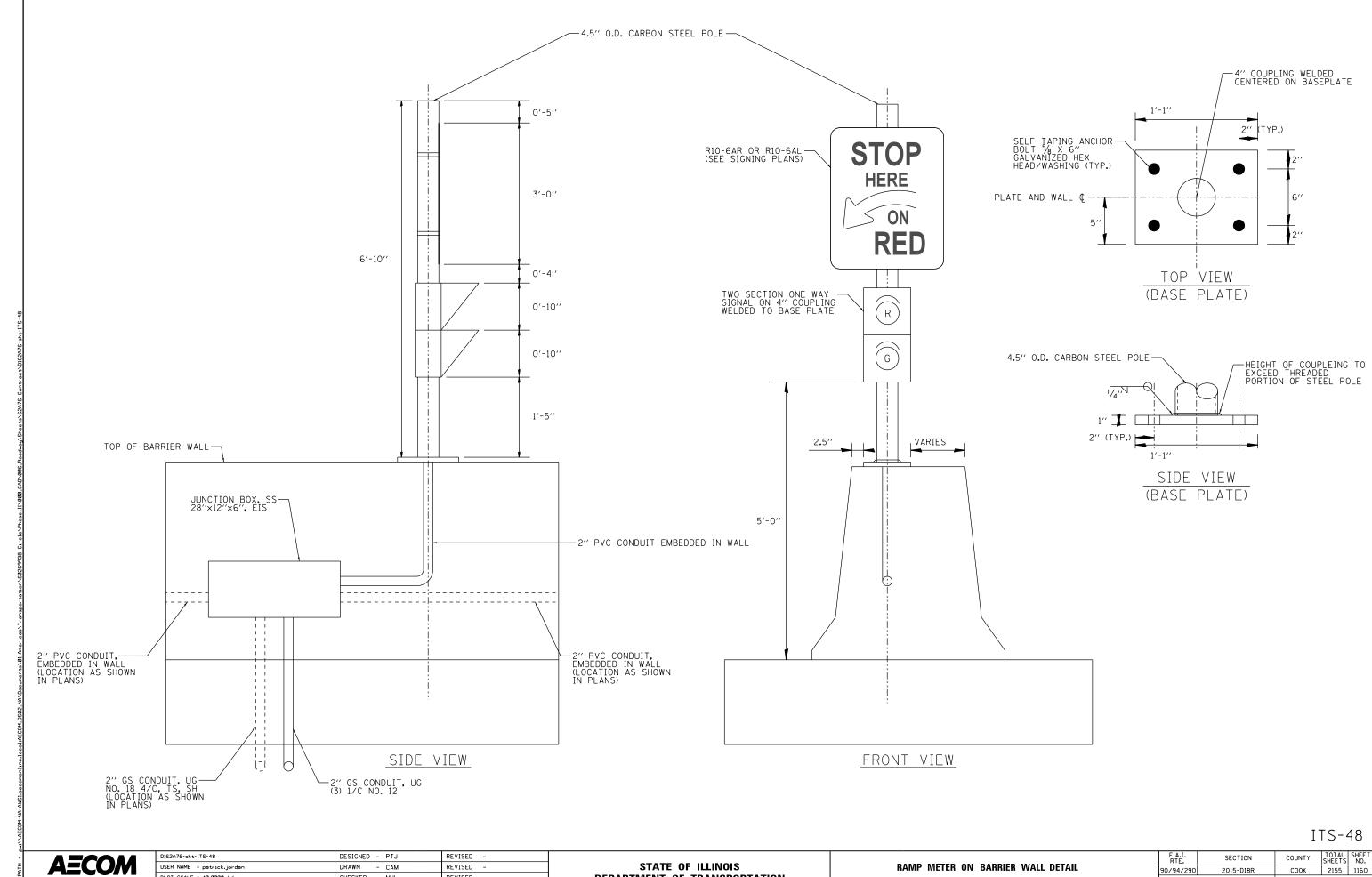
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D162A76-sht-ITS-47	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 '/ in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

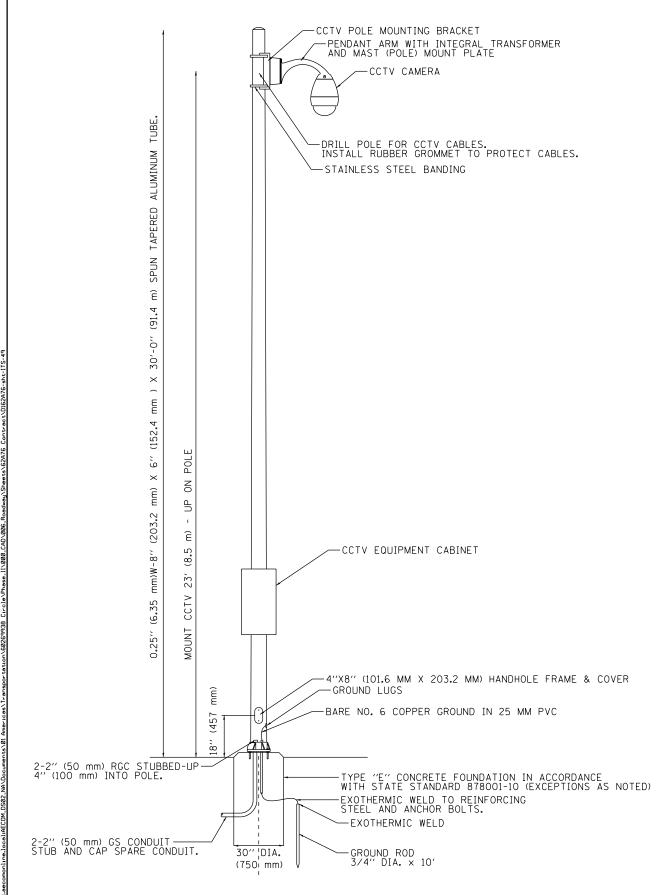
	WIRE	LESS	VEHICLE	DE	TECTION	SYSTEM	DETAIL
5 6 1 · E	<u> </u>	CUEET			CUEETE	c = .	TO 671



PLOT SCALE = 40.0000 ' / in. CHECKED - MJL REVISED -PLOT DATE = 1/25/2020 DATE REVISED -- 1/29/20

DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 48 OF 70 SHEETS STA. TO STA. CONTRACT NO. 62A76



NOTES

- 1. ROUTE CONDUIT AND CCTV CABLE AS SHOWN IN THE PLANS.
- 2. CAMERA MOUNTING HEIGHT AND ORIENTATION TO BE CONFIRMED WITH THE ENGINEER IN ORDER TO SURVEIL THE IDOT MAINTENANCE LOT/TEMPORARY ACCIDENT INVESTIGATION SITE.

POLE ELEVATION

ITS-49



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA POLE INSTALLATION DETAIL

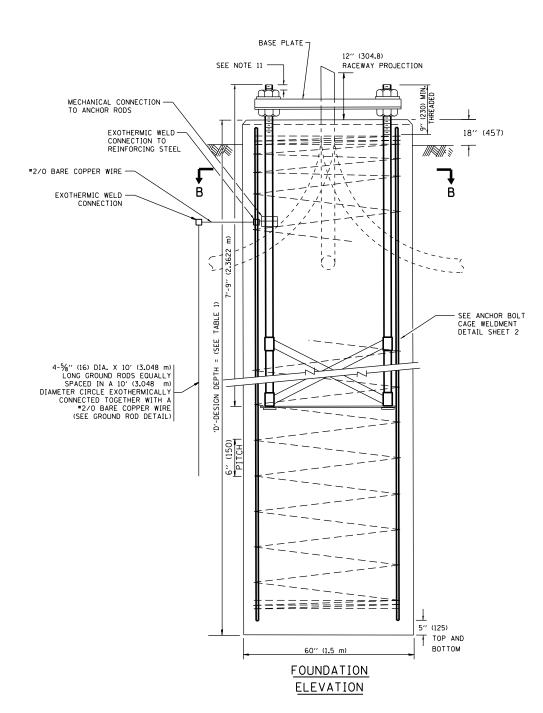
SCALE: N.T.S. | SHEET | 49 | OF | 70 | SHEETS | STA. | TO STA.

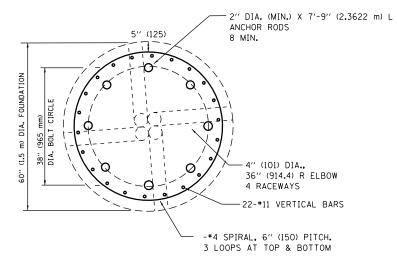
F.A.I. SECTION COUNTY TOTAL SHEET NO.
90/94/290 2015-D18R COOK 2155 1161

CONTRACT NO. 62A76

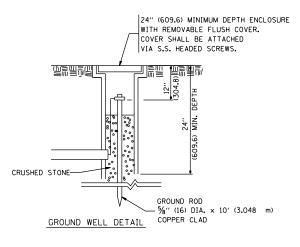
TABLE 1. CCTV TOWER SCHEDULE

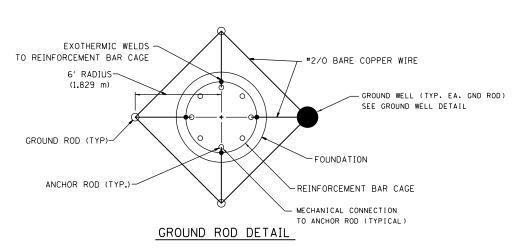
			CCTV LOCATION	N	TOWER	CCTV TOWER FOUNDATION ELEVATIONS		
CCTV TOWER ID	WER ID LOCATION NOTES		OFFSET	BASELINE	HEIGHT (FT)	TOP ELEVATION	BOTTOM ELEVATION	DESIGN DEPTH (FT)
DR-OC	SOUTH OF CERMAK PUMPING STATION, NE CORNER OF AIS	6128+00.00	55.00 LT	P-KDR-NB	100	586.07	531.07	55
KE-OH	EAST OF NB I-90/94, NORTH OF MADISON ST.	6352+73.00	39.91 RT	P-NCD-NX	100	584.71	539.71	45





SECTION-B-B





DESIGN NOTES

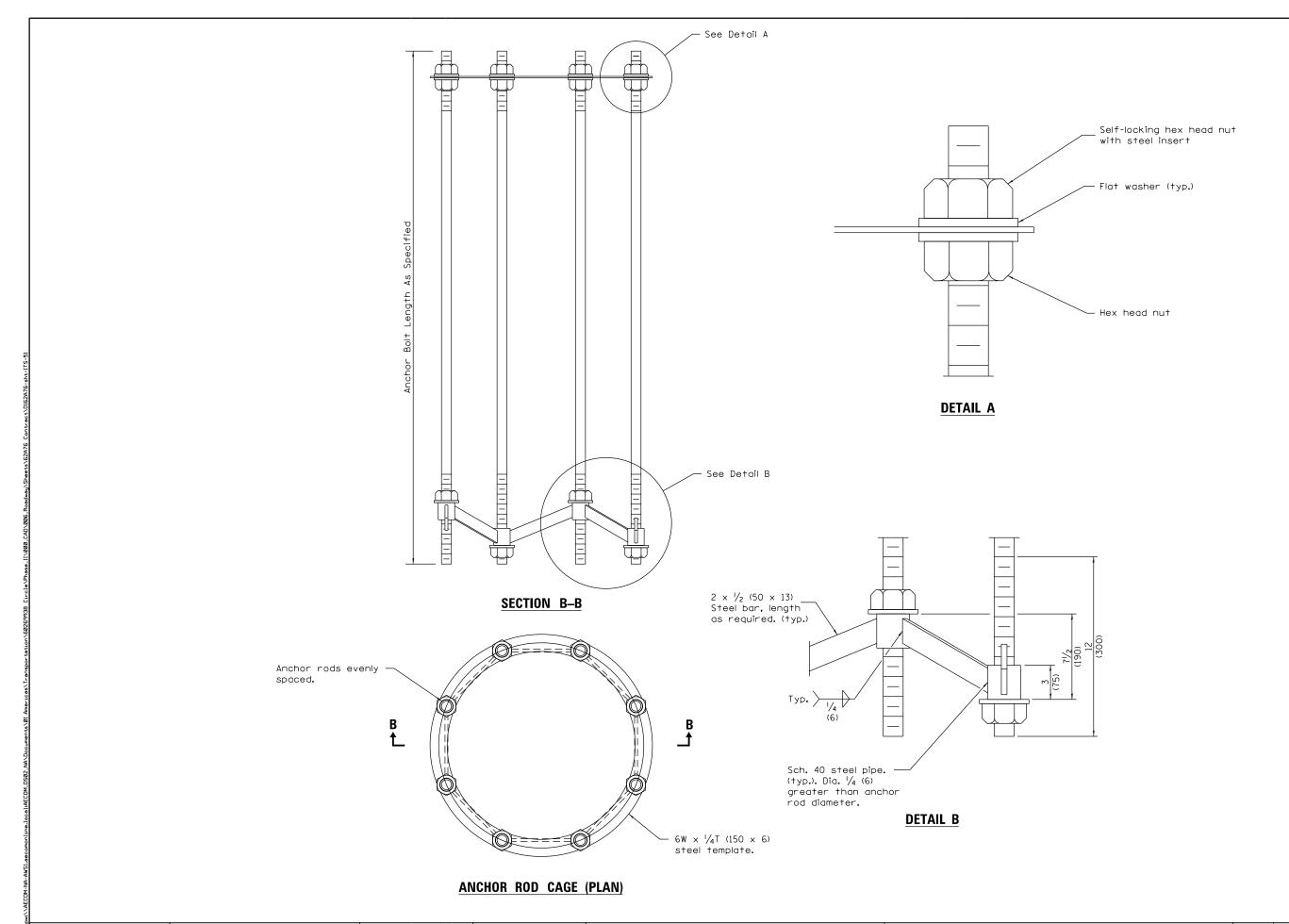
- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- (6) STEEL ANCHOR ROD FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE IS POURED. THE CCTV CAMERA POLE SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL
 BE ACCORDING TO AASHTO M 314 OR ASTM
 F1554, GRADE 725(GRADE 105) AND GALVANIZED
 ACCORDING TO ARTICLE 1006.9.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH CCTV CAMERA POLE MANUFACTURER REQUIREMENTS.
- (9) ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED. REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL
 HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS
 ARE INSTALLED.
- (11) A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IN INSTALLED.
- (12) ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE CCTV CAMERA POLE FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- (13) CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- (14) ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- (15) COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- (16) THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
- (17) THE SHAFT LENGTH(S) ARE BASED ON NEAREST AVAILABLE SOIL BORINGS. IF DIFFERENT SOILS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED TO PROVIDE A REVISED LENGTH.
- (18) THE COST OF THE FOUNDATION IS INCIDENTAL TO THE COST OF THE CCTV TOWER.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL. 60601-5276

D162A76-sht-ITS-50	DESIGNED - PTJ	REVISED -
USER NAME = patrick.jordan	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/25/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CC1	TV SYST	ГЕМ	- 1	100	FOOT P	OLE FO	UNDATION			
(PLANS 1 OF 2)										
SCALE: N.T.S.	SHEET	50	OF	70	SHEETS	STA.	TO STA.			

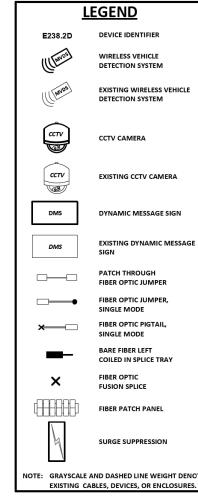


ITS-51

AECOM
303 EAST, WACKER DRIVE, SUITE 1400
CMICAGO, II. 60601-5276
PHONE, 1312 373-7700 FAX, 1312 373-6800

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CCTV SYSTEM - 100 FOOT POLE FOUNDATION (PLANS 2 OF 2)

SCALE: N.T.S. SHEET 51 OF 70 SHEETS STA. TO STA.



CONTRACT 62A76

INSTALL 96 SMF TRUNK LINE TO PUMP STATION.
TERMINATE ALL STRANDS AND INSTALL FIBER OPTIC
PATCH CORDS ACCORDING TO STRAND ALLOCATION
SHEFTS

PUMP STATION #29 (CHICAGO RIVER)

AECOM

303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 66601-6276
PHONE (312) 373-7700 FAX: (312) 373-6800

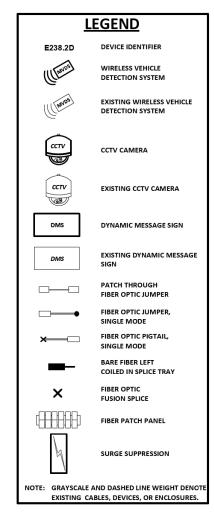
D162A76-sht-ITS-52	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / 10.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION				I EC	UIPME	NT SC	HEMATIC		
	PUMP	STA	TION	l #	29 (CHI	CAGO	RIVER)		
	SHEET	52	OF	70	SHEETS	STA.		TO	STA.

SCALE: N.T.S.

F.A.I. SECTION COUNTY TOTAL SHEETS NO. 90/94/290 2015-D18R COOK 2155 1164 CONTRACT NO. 62A76



CONTRACT 62A76

INSTALL DMS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE AND SPLICE.

DYNAMIC MESSAGE SIGN DMS-09 (SOUTH OF ROOSEVELT RD.)

AECOM

305 EAST WACKER DRIVE, SUITE 1400

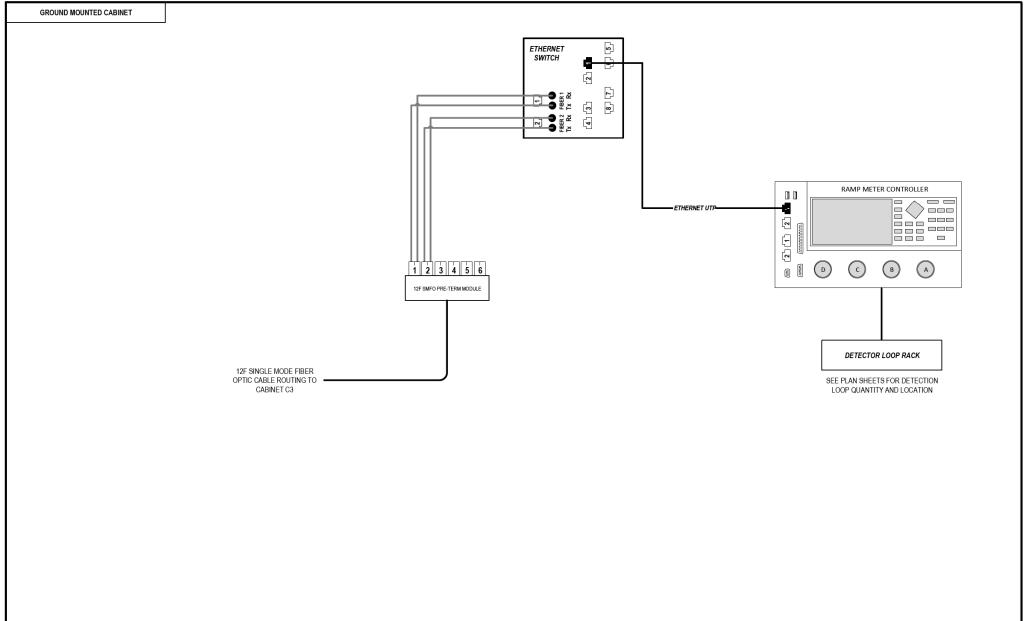
CHICAGO, II. 66601-5276

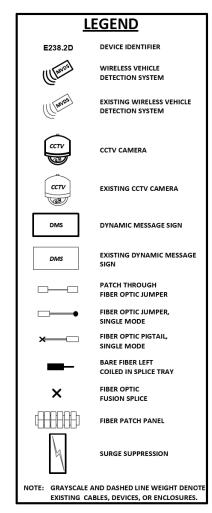
PHONE (132) 3737-06 FAX (312) 373-6800

D162A76-sht-ITS-53	DESIGNED - PTJ	REVISED -	Г
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 ' / 10.	CHECKED - MJL	REVISED -	
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	COMMUNICATION EQUIPMENT SCHEMATIC								
DYNAMIC	M	ESSAG	E SI	GN	DM	S–09 (S	OUTH	OF ROOSEVELT RD)	
CALE: N.T.S.		SHEET	53	OF	70	SHEETS	STA.	TO STA.	





CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET C3 AND TERMINATE.

ITS CABINET C6 (SOUTH OF TAYLOR STREET)

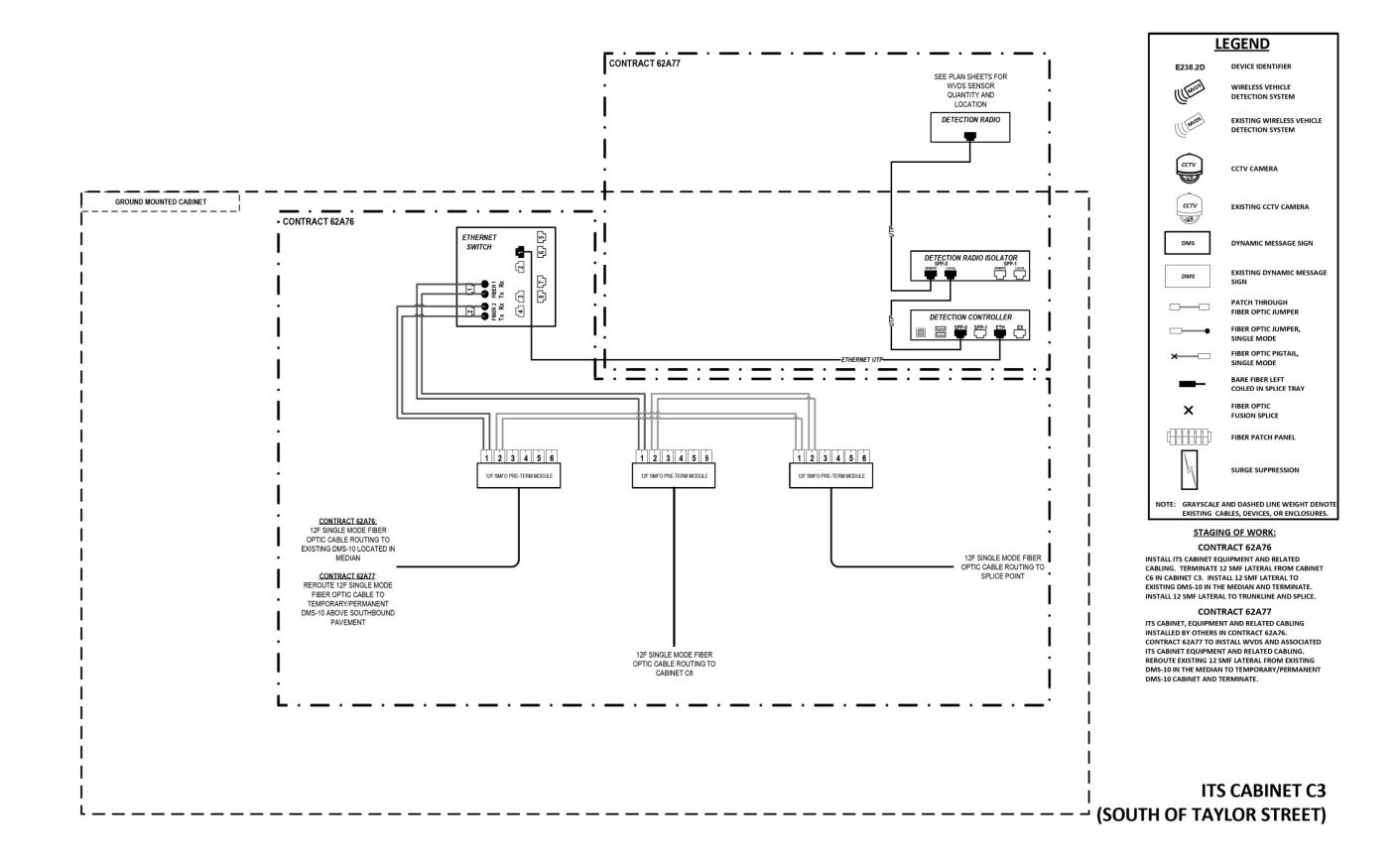
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. GOSCI-5276
PURDE, CLIZ 375-T/201 EAX (3)23 373-5800

D162A76-sht-ITS-54	DESIGNED - PTJ	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 '/ in.	CHECKED - MJL	REVISED -	
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -	

COMMUNICATION				EC	UIPME	IN.	SCHEM	ATIC			
ľ	ΓS	CAE	BINET	C6	(SC	OUTH ()F	TAYLOR	ST)		
	SH	EET	54	OF	70	SHEETS	S	TA.		то	STA.

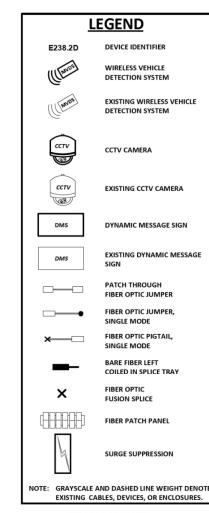
SCALE: N.T.S.

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-D18F	ł	соок	2155	1166
		CONTRACT	NO. 6	2A76	
	ILLINOIS	ID PROJECT			



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

D162A76-sht-ITS-55	DESIGNED - PTJ	REVISED -		COMMUNICATION EQUIPMENT SCHEMATIC					F.A.I.	SECTI	ON	COUNTY	TOTAL	SHEET		
USER NAME = myersc	DRAWN - CAM	REVISED -	STATE OF ILLINOIS								90/94/290	2015-D	18R	COOK	2155	1167
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -	DEPARTMENT OF TRANSPORTATION	ITS CABINET C3 (SOUTH OF TAYLOR STREET)										CONTRAC	T NO.	62A76
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -		SCALE: N.T.S. SHEET 55 OF 70 SHEETS STA. TO STA.							ILLINOIS FED. AID PROJECT					



STAGING OF WORK: CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET D1 AND TERMINATE.

ITS CABINET D4 (POLK STREET)

AECOM
303 EAST WACKER DRIVE. SUITE 1400
CHICAGO, II. GOSGI-5276
PHONE 1012 373-7700 FAX: (3)23 373-6800

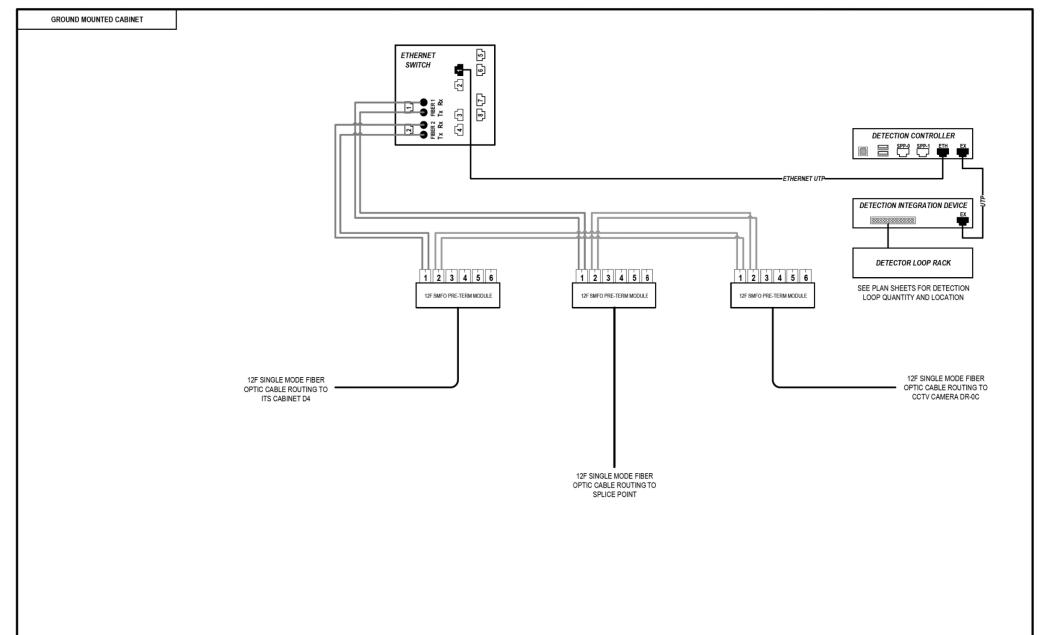
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USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -	
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -	
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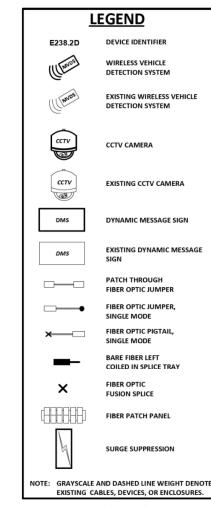
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C						NT SCHEI Street		
	LSHEET	56	OF	70	SHEETS	STA.	T	O ST.

SCALE: N.T.S.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-D18R	соок	2155	1168
		CONTRACT	NO. 6	2A76
	THE TRICKS FED. A	ID PROJECT		





CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE IN MEDIAN JUNCTION BOX BY OTHERS IN CONTRACT

CONTRACT 60Y00

ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

ITS CABINET D1 (ACCIDENT INVESTIGATION SITE)

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. GOSCI-5276
PURDE, CLIZ 375-T/201 EAX (3)23 373-5800

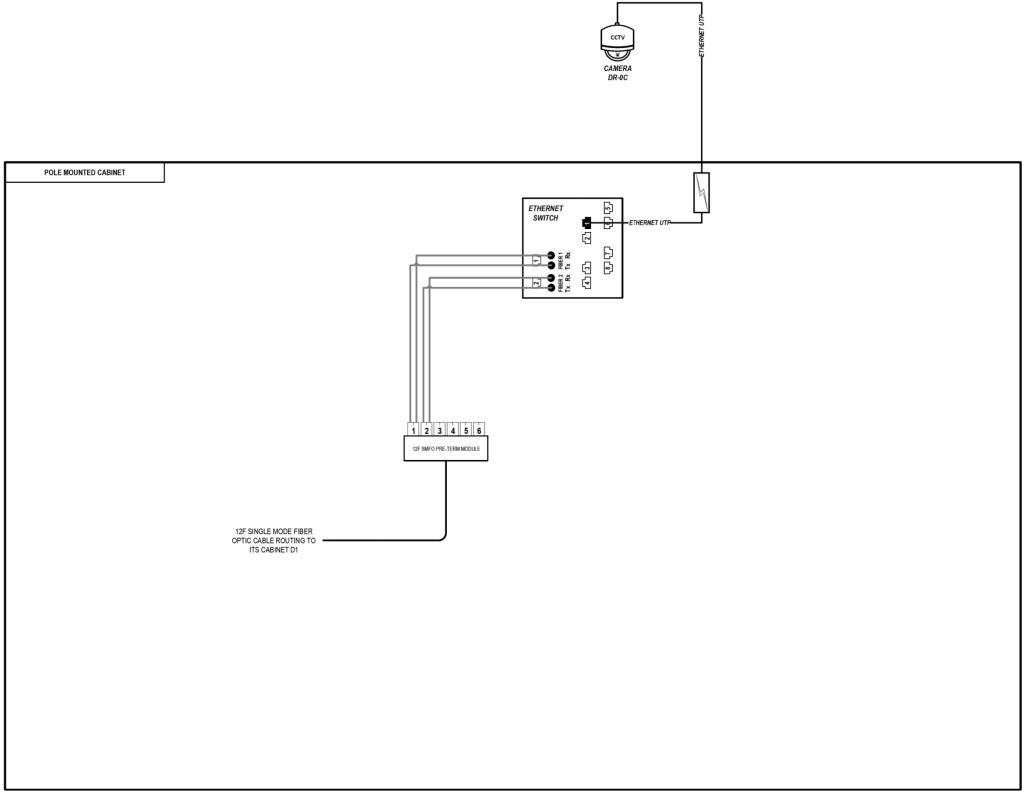
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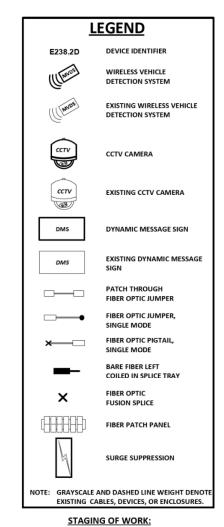
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

C	омми	VICA	TION	l E	QUIP	MEN	NT SCH	IEMAT	IC	
ITS	CABINE [*]	Γ D1	(AC	CID	ENT	INV	ESTIGA	ATION	SITE)	
SCALE: N.T.S.	SHEET	57	OF	70	SHE	ETS	STA.		TO	STA

F.A.I. SECTION COUNTY TOTAL SHEETS NO.
90/94/290 2015-D18R COOK 2155 1169

CONTRACT NO. 62A76





CONTRACT 62A76

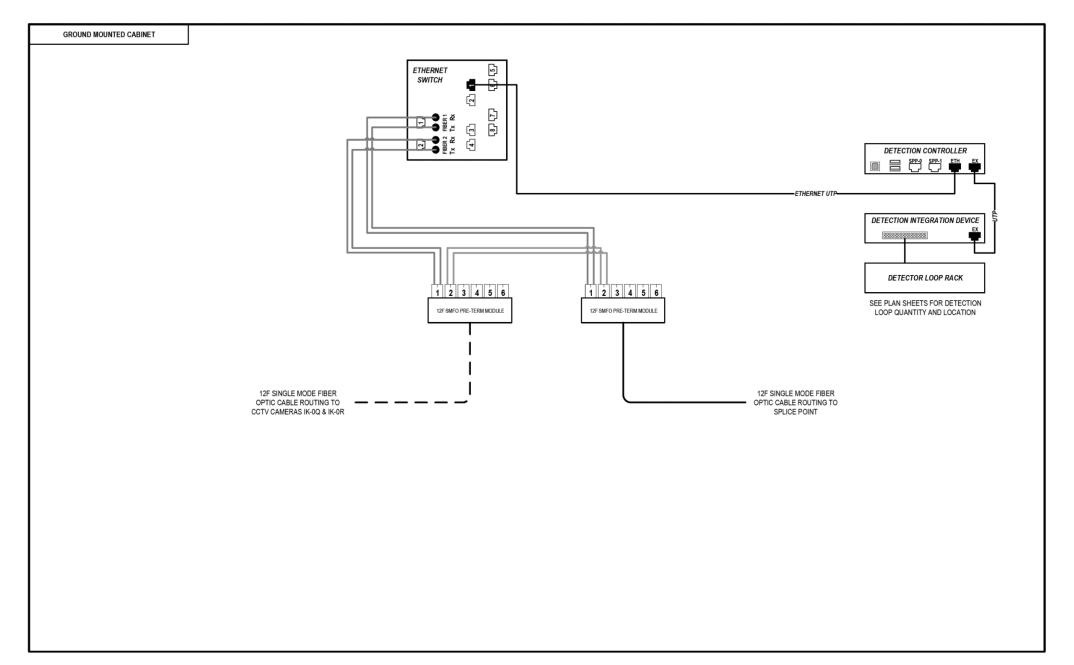
INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET D1 AND TERMINATE.

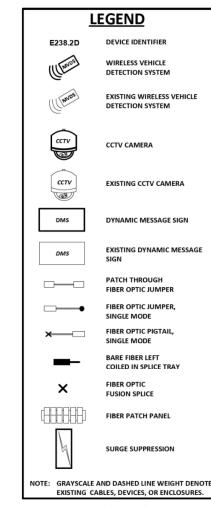
CCTV CAMERA DR-0C (ACCIDENT INVESTIGATION SITE)

D162A76-sht-ITS-58	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -

COMMUNICATION EQUIPMENT SCHEMATIC								
ССТУ	CA	MERA	DR-	-0C	(AC	CIDENT	INVEST	GATION SITE)
SCALE: N.T.S.		SHEET	58	OF	70	SHEETS	STA.	TO STA.

F.A.I. RTE.	s	ECTION		COUNTY	TOTAL SHEETS	SHEE NO.
0/94/290	20	15-D18R	!	соок	2155	1170
				CONTRACT	NO. 6	2A76
		ILLINOIS	FED. A	ID PROJECT		





CONTRACT 62A76

12 SMF LATERAL FROM CAMERAS IK-OQ & IK-OR EXISTING BY OTHERS. CONTRACT 62A76 TO INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING, TERMINATE EXISTING 12 SMF LATERAL FROM CCTV CAMERAS IK-OQ & IK-OR IN CABINET 22. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE IN MEDIAN JUNCTION BOX BY OTHERS IN CONTRACT 60YOO.

CONTRACT 60Y00

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

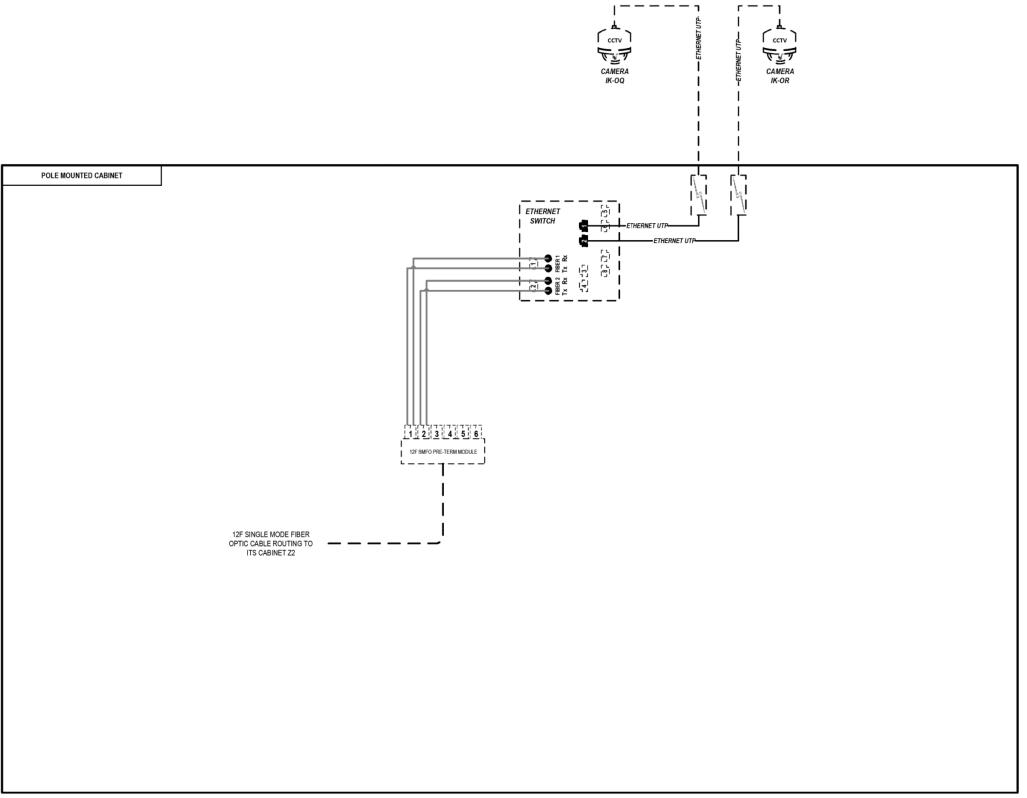
ITS CABINET Z2 (MEDIAN AT HARRISON STREET)

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. GOSGI-5276
PHORY (3) 275-1700 FAM: (3)21 373-5800

J REVISED -
M REVISED -
JL REVISED -
29/20 REVISED -
J

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC									
ITS (CABINET	Z2	(ME	DIA	N AT	HARRISON	STREET)		
SCALE: N.T.S.	SHEET	59	OF	70	SHEETS	STA.	TO S	STA	



LEGEND E238.2D DETECTION SYSTEM EXISTING WIRELESS VEHICLE DETECTION SYSTEM CCTV CAMERA EXISTING CCTV CAMERA (B) DMS DYNAMIC MESSAGE SIGN EXISTING DYNAMIC MESSAGE DMS PATCH THROUGH FIBER OPTIC JUMPER FIBER OPTIC JUMPER. SINGLE MODE FIBER OPTIC PIGTAIL, COILED IN SPLICE TRAY FIBER OPTIC FUSION SPLICE FIBER PATCH PANEL SURGE SUPPRESSION NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOT EXISTING CABLES, DEVICES, OR ENCLOSURES.

STAGING OF WORK:

CONTRACT 62A76

TERMINATE EXISTING 12 SMF LATERAL FROM CCTV CAMERAS IK-0Q & IK-0R IN CABINET Z2.

CCTV CAMERAS
IK-0Q & IK-0R (SOUTHWEST
INTERCHANGE QUADRANT)

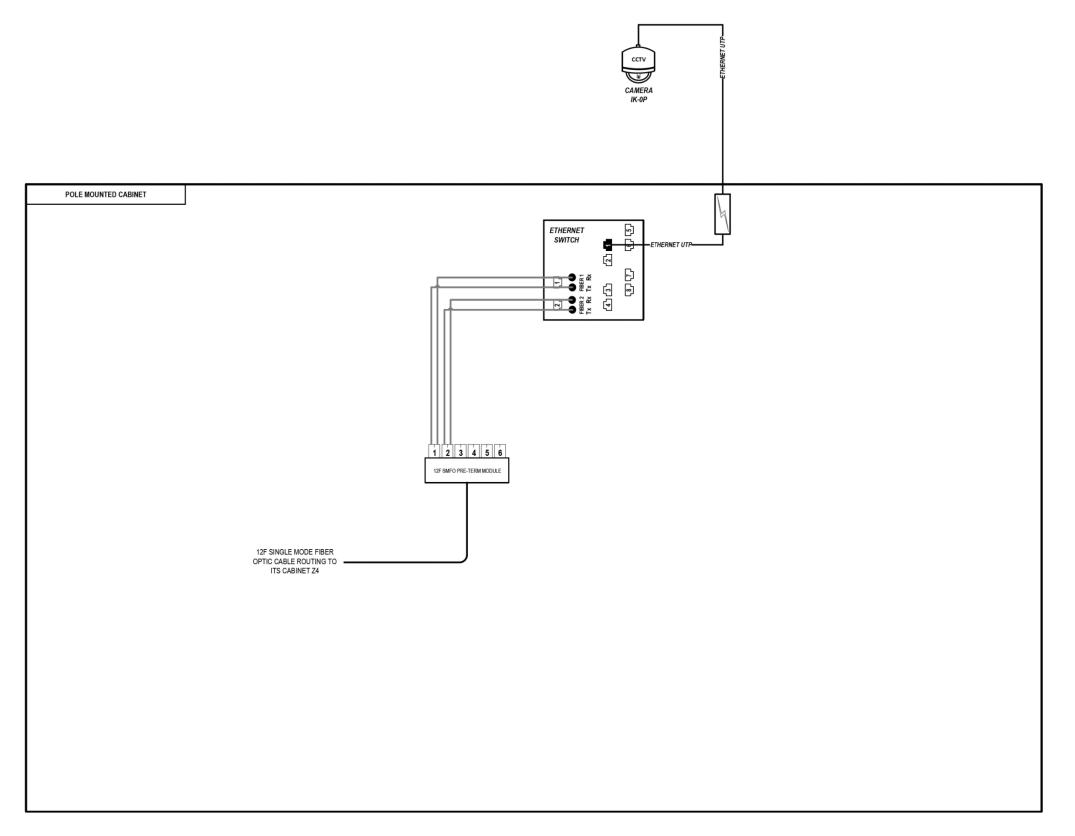
AECOM

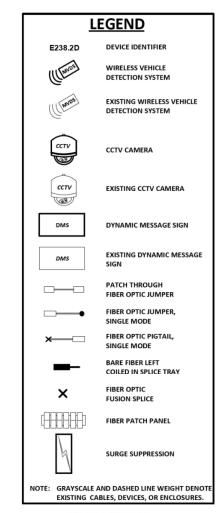
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL GGO1-5276
CHICAGO
CHICA

D162A76-sht-ITS-60	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -

COMMUNICATION EQUIPMENT SCHEMATIC								
CCTV CAMERAS IK-0Q & IK-0R (SW INTERCHANGE QUADRANT)								
SCALE: N.T.S.	SHEET	60	0F	70	SHEETS	STA.	TO STA.	

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
90/94/290	2015-D18R	!	COOK	2155	1172
			CONTRACT	NO. 6	2A76
	ILLINOIS	FED. A	D PROJECT		





CONTRACT 62A76

INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET Z4 AND TERMINATE.

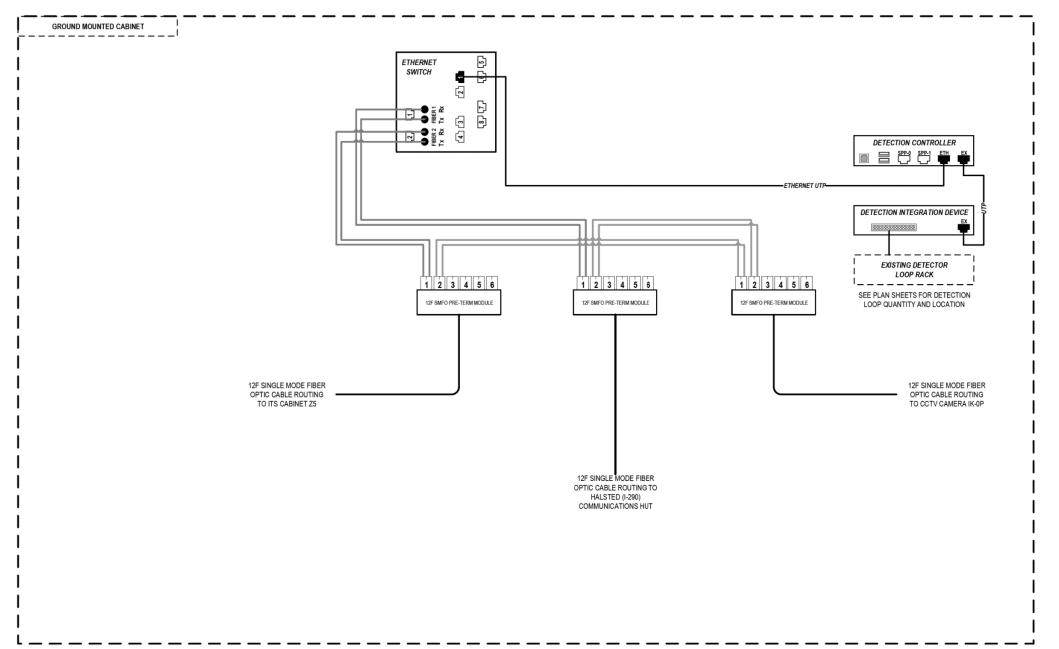
CCTV CAMERA IK-0P (TEMPORARY ACCIDENT INVESTIGATION SITE)

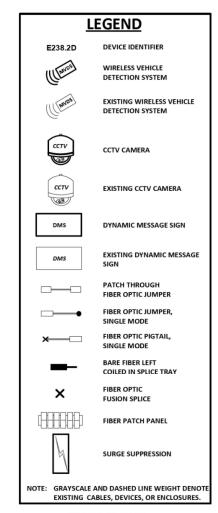
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. GOSCI-5276
PHORY, 102, 373-700 EAX; (3)2, 373-5800

D162A76-sht-ITS-61	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -

COMMUNICATION EQUIPMENT SCHEMATIC							
CCTV CAMERA IK-OP (TEMPORARY ACCIDENT INVESTIGATION SITE)							
SCALE: N.T.S.	SHEET	61	OF	70	SHEETS	STA.	TO STA.

F.A.I. RTE.	s	ECTION		COUNTY	TOTAL SHEETS	SHEE NO.
0/94/290	20	15-D18R	!	COOK	2155	1173
				CONTRACT	NO. 6	2A76
		ILLINOIS	FED. A	D PROJECT		





CONTRACT 62A76

INSTALL ITS CABINET EQUIPMENT AND RELATED CABLING. TERMINATE 12 SMF LATERAL FROM CCTV CAMERA IK-OP IN CABINET Z4. TERMINATE 12 SMF LATERAL FROM CABINET Z5 IN CABINET Z4. INSTALL 12 SMF LATERAL FROM CABINET Z4 TO EXISTING HALSTED (I-290) COMMUNICATIONS HUT. PROVIDE 100' OF EXTRA SLACK FOR FUTURE RELOCATION TO NEW HALSTED (I-290) COMMUNICATIONS HUT.

CONTRACT 60Y00
ITS CABINET EQUIPMENT AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. RELOCATE 12 SMF LATERAL FROM EXISTING HALSTED (1-290) COMMUNICATIONS HUT TO NEW HALSTED (I-290) COMMUNICATIONS HUT AND TERMINATE.

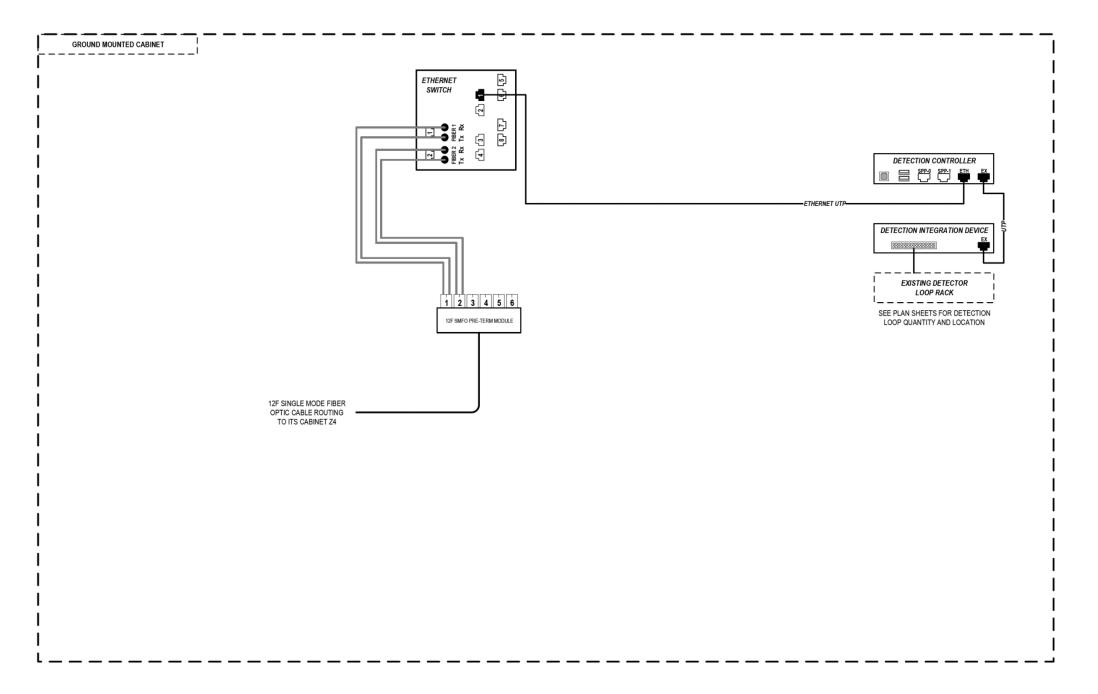
ITS CABINET Z4 (TEMPORARY ACCIDENT **INVESTIGATION SITE)**

D162A76-sht-ITS-62	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000 ' / 10.	CHECKED - MJL	REVISED -
PLOT DATE = 1/24/2020	DATE - 1/29/20	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COMMUNICATION EQUIPMENT SCHEMATIC ITS CABINET Z4 (TEMPORARY ACCIDENT INVESTIGATION SITE) SHEET 62 OF 70 SHEETS STA.

F.A.I. RTE. SECTION COUNTY COOK 2155 1174 90/94/290 2015-D18R CONTRACT NO. 62A76



LEGEND E238.2D DETECTION SYSTEM EXISTING WIRELESS VEHICLE DETECTION SYSTEM CCTV CAMERA EXISTING CCTV CAMERA (B) DMS DYNAMIC MESSAGE SIGN EXISTING DYNAMIC MESSAGE DMS PATCH THROUGH FIBER OPTIC JUMPER FIBER OPTIC JUMPER. SINGLE MODE FIBER OPTIC PIGTAIL, COILED IN SPLICE TRAY FIBER OPTIC FUSION SPLICE FIBER PATCH PANEL SURGE SUPPRESSION NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENOT EXISTING CABLES, DEVICES, OR ENCLOSURES.

STAGING OF WORK:

CONTRACT 62A76

INSTALL ITS CABINET EQUIPMENT AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET 24 AND TERMINATE.

ITS CABINET Z5 (PUMP STATION #5)

AECOM

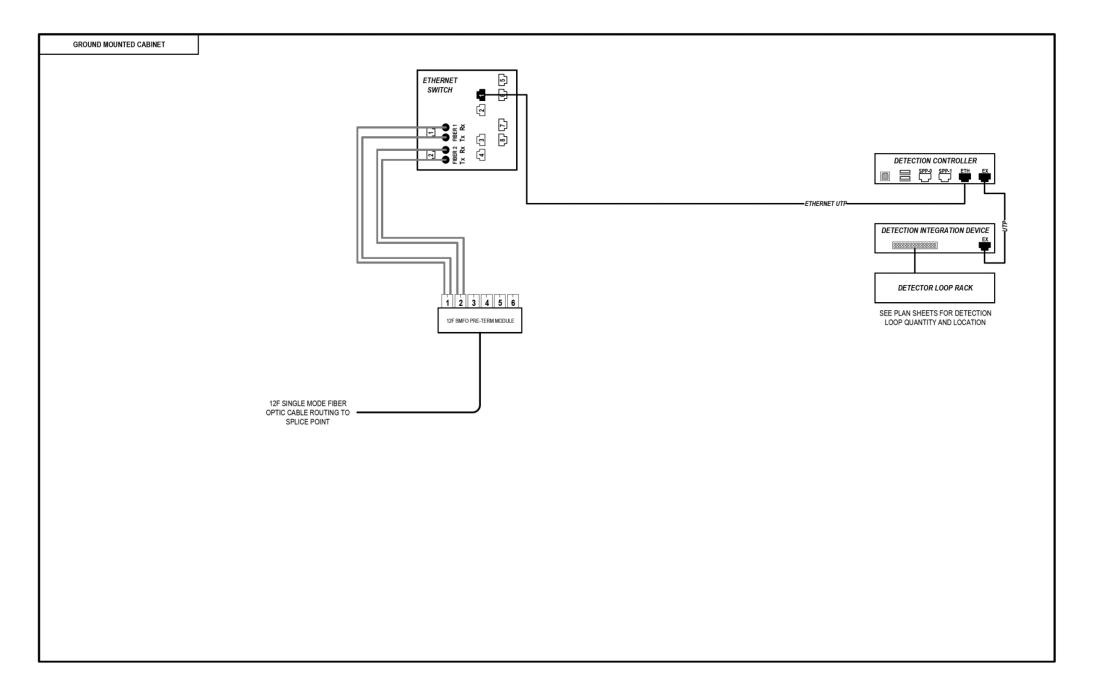
303 EAST WACKER DRIVE, SUITE 1400
CHICACO, IL GOSCO1-5276
PHONE (13/2) 373-7700 FAX (3/2) 373-6800

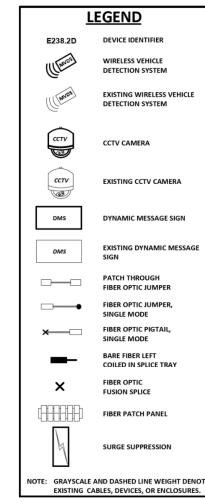
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		CONTRACT	NO. 6	24
	THE THOUSE FED. AT	D PROJECT		

ITS-63





CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING ON EXISTING FOUNDATION. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60YOO.

CONTRACT 60Y00

ITS CABINET, CABINET EQUIPMENT, AND CABLING TO BE INSTALLED ON EXISTING FOUNDATION IN CONTRACT 62A76. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

ITS CABINET Z7 (VAN BUREN STREET)

AECOM

305 EAST WACKER DRIVE, SUITE 1400

CHICAGO, II. 66601-5276

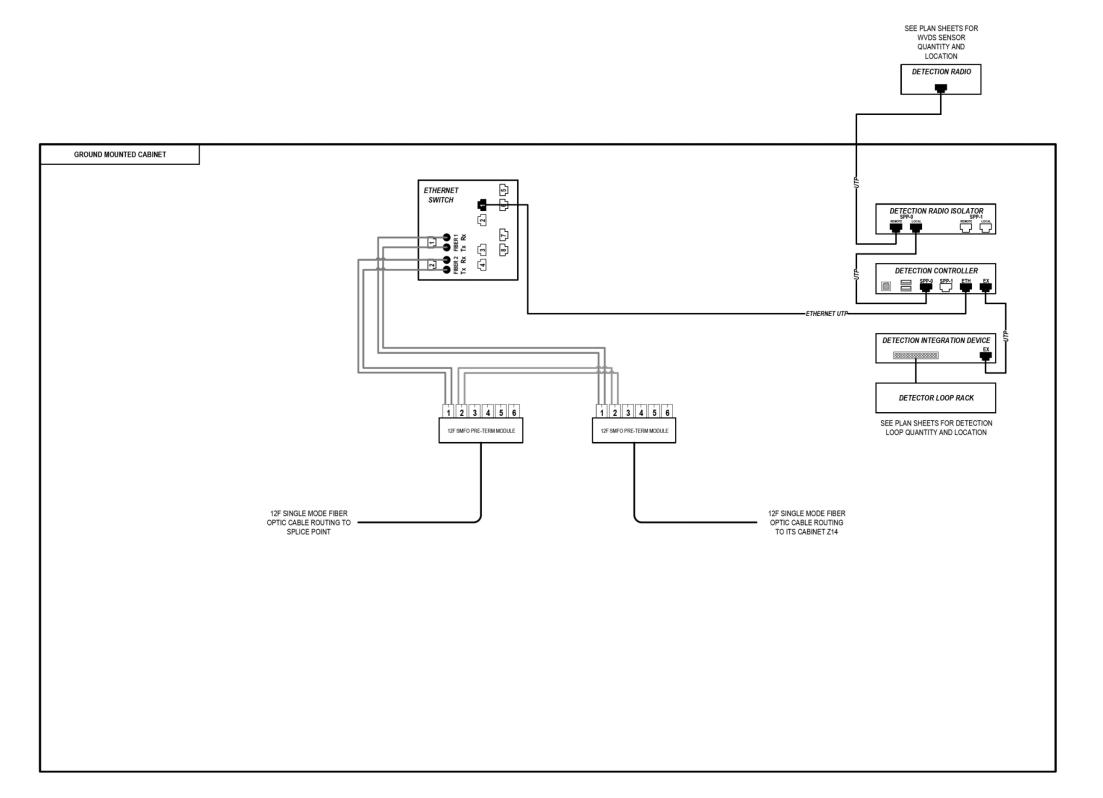
PHONE (132) 373-706 FAX (312) 373-6800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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LEGEND E238.2D DEVICE IDENTIFIER WIRELESS VEHICLE DETECTION SYSTEM EXISTING WIRELESS VEHICLE **DETECTION SYSTEM** CCTV CAMERA cctv EXISTING CCTV CAMERA (B) DMS DYNAMIC MESSAGE SIGN EXISTING DYNAMIC MESSAGE DMS PATCH THROUGH FIBER OPTIC JUMPER FIBER OPTIC JUMPER. SINGLE MODE FIBER OPTIC PIGTAIL, SINGLE MODE BARE FIBER LEFT COILED IN SPLICE TRAY FIBER OPTIC **FUSION SPLICE** FIBER PATCH PANEL SURGE SUPPRESSION NOTE: GRAYSCALE AND DASHED LINE WEIGHT DENO EXISTING CABLES, DEVICES, OR ENCLOSURES.

STAGING OF WORK:

CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET 214 INSTALLED BY OTHERS IN CONTRACT 62A77.

CONTRACT 62A77

ITS CABINET, CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO TRUNKLINE INSTALLED BY OTHERS IN CONTRACT 62A76. 12 SMF LATERAL TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. INSTALL 12 SMF LATERAL FROM CABINET 214 AND TERMINATE.

CONTRACT 60Y0

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

ITS CABINET Y15 (MONROE STREET)

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 66661-5276
PHONE: (132) 373-770- FAM: (312) 373-6800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION EQUIPMENT SCHEMATIC

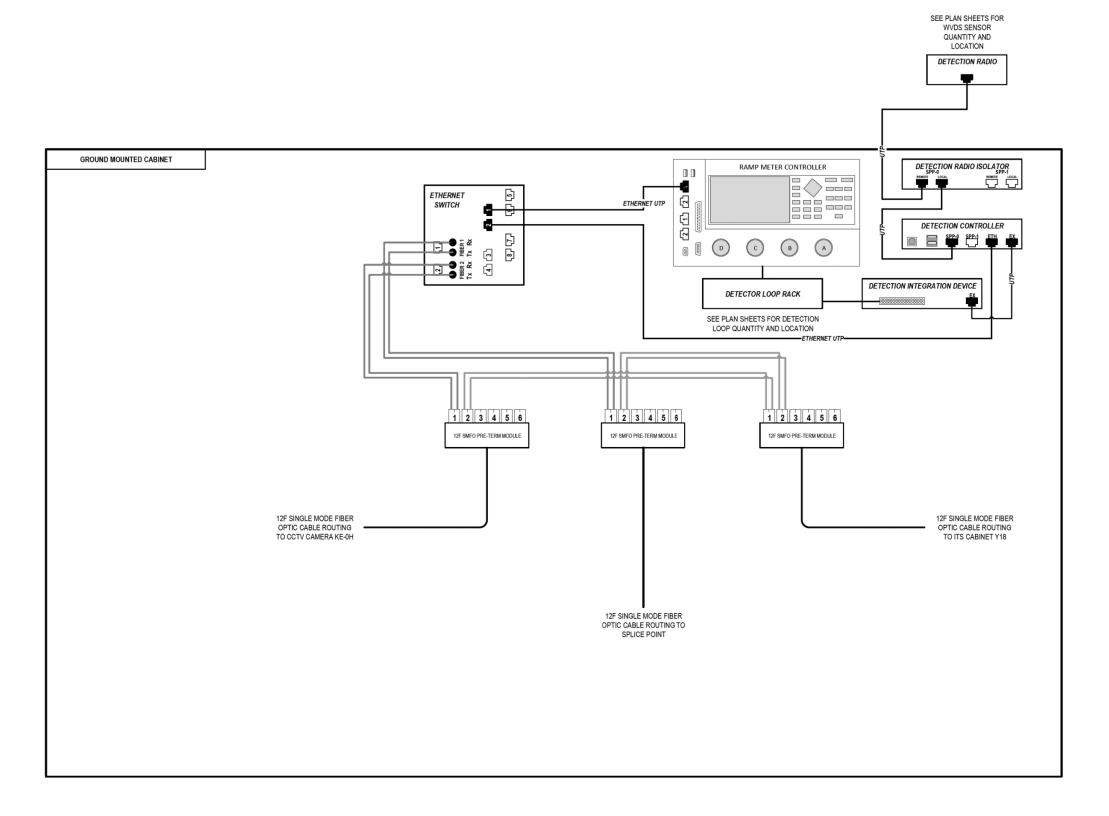
ITS CABINET Y15 (MONROE STREET)

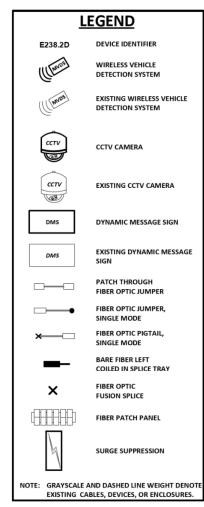
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SCALE: N.T.S.

F.A.I. SECTION COUNTY TOTAL SHEETS NO.
90/94/290 2015-D18R COOK 2155 1177

CONTRACT NO. 62A76





CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. TERMINATE 12 SMF LATERAL FROM CAMERA KE-0H. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y18 INSTALLED BY OTHERS IN CONTRACT 62A77.

CONTRACT 62A77

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL TO CABINET Y18 AND TERMINATE.

CONTRACT 60Y00

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

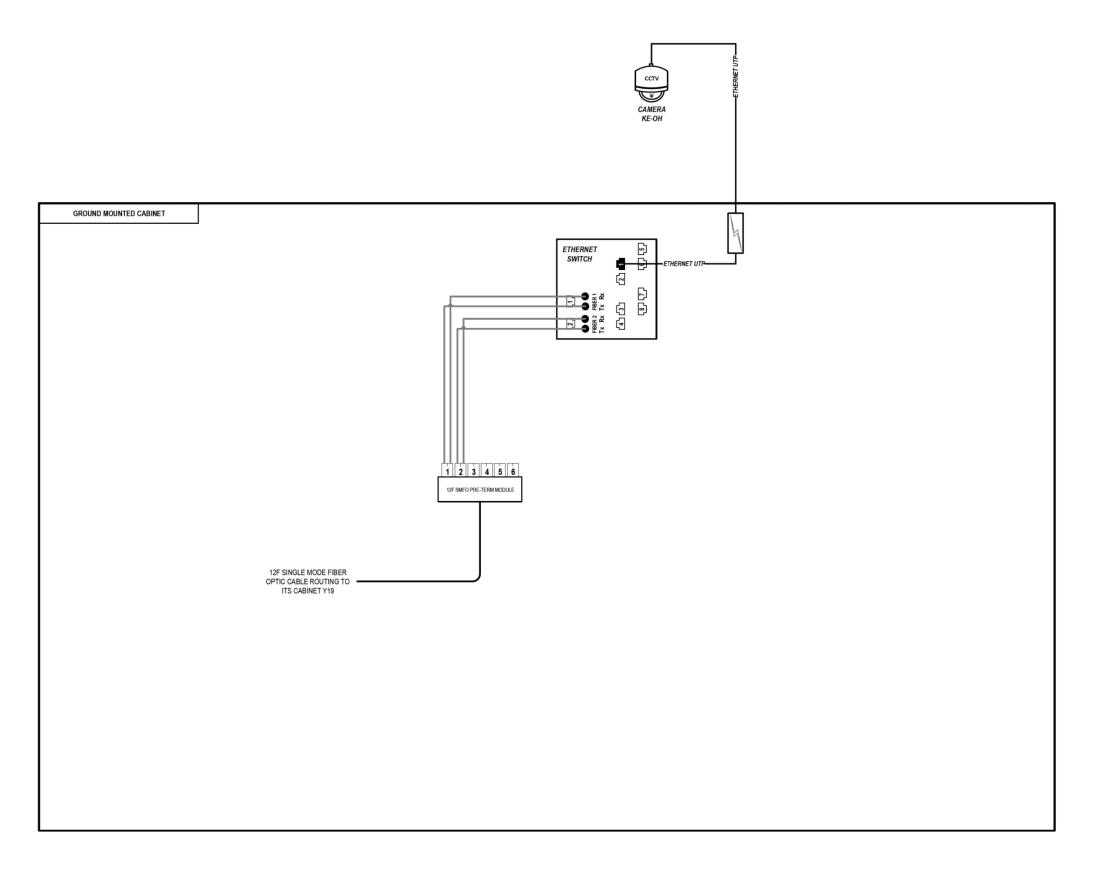
ITS CABINET Y19 (MADISON STREET)

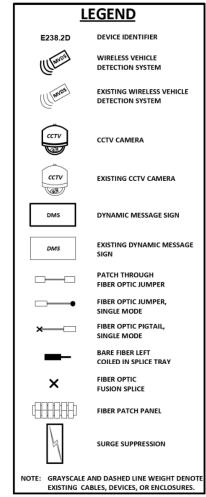
AECOM
305 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 60601-5276
PHONE (13)2 373-700 FAX (3)2) 373-5800

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CONTRACT 62A76

INSTALL CCTV CAMERA, CCTV CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO CABINET Y19 AND TERMINATE.

CCTV CAMERA KE-0H (MADISON STREET)

AECOM

305 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
CHIC

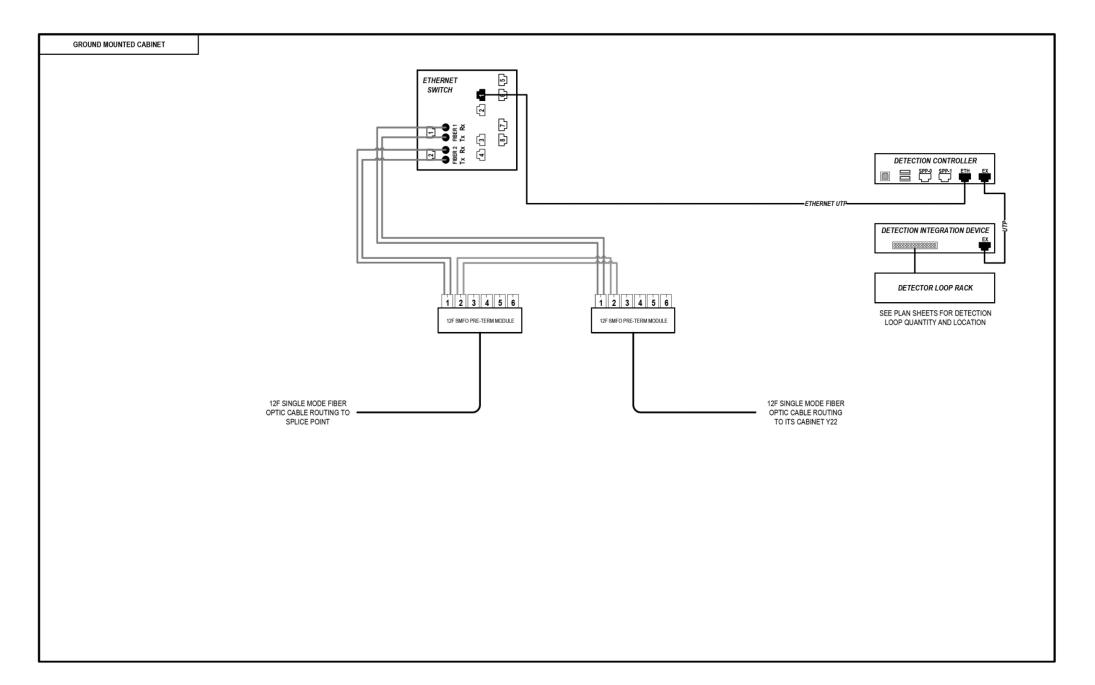
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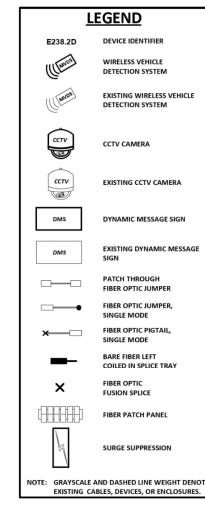
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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CCTV CAMERA KE-OH (MADISON STREET)									
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SCALE: N.T.S.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
90/94/290	2015-D18R	соок	2155	1179
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CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y22 INSTALLED BY OTHERS IN CONTRACT 62A77.

CONTRACT 62A77

ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL FROM CABINET Y22 AND TERMINATE.

CONTRACT 60Y00

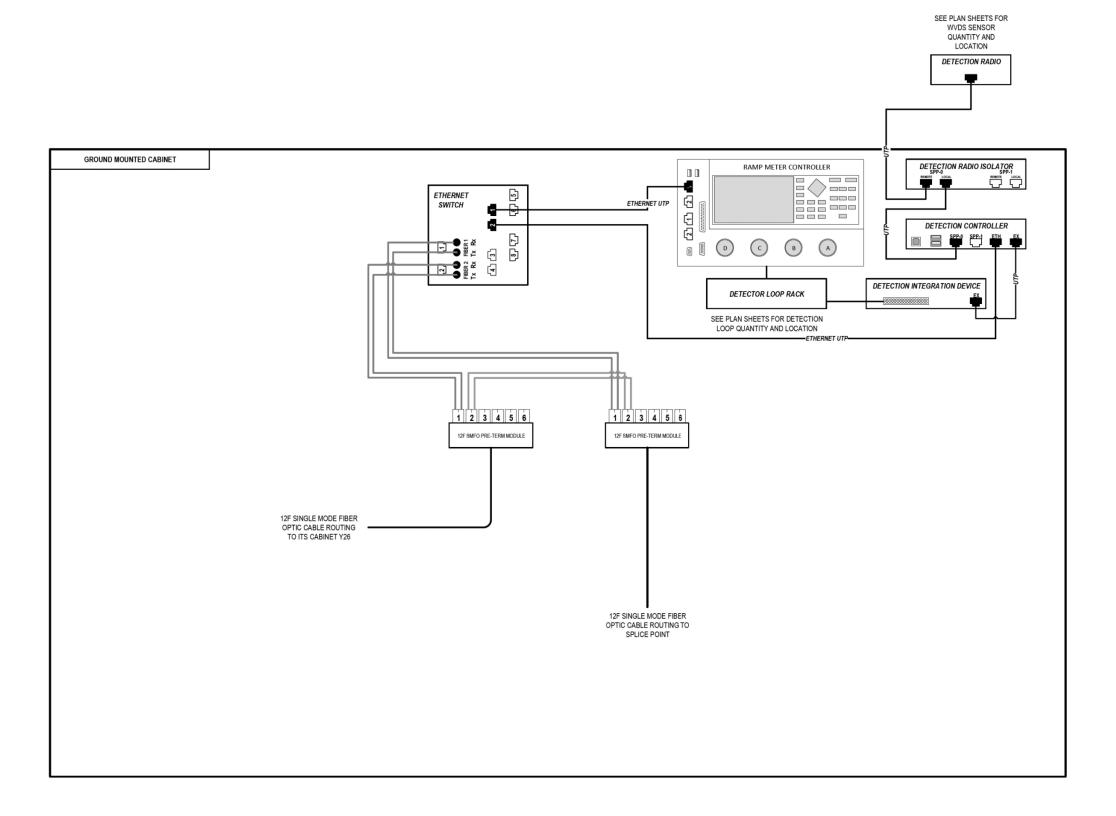
ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF LATERAL TO TRUNKLINE.

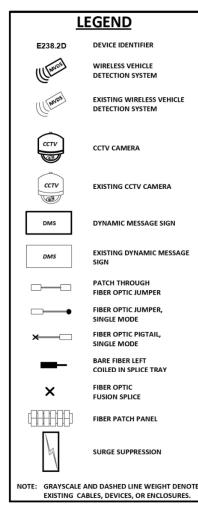
ITS CABINET Y23 (WASHINGTON BOULEVARD)

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 66661-5276
PHONE: (132) 373-770- FAM: (312) 373-6800

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEI NO
90/94/290	2015-D18F	t	COOK	2155	118
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ITS-68





CONTRACT 62A76

INSTALL ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING. INSTALL 12 SMF LATERAL TO TRUNKLINE, CABLE TO BE SPLICED TO TRUNKLINE BY OTHERS IN CONTRACT 60Y00. 12 SMF LATERAL FROM CABINET Y26 INSTALLED BY OTHERS IN CONTRACT 62A77.

CONTRACT 62A77

ITS CABINET, CABINET EQUIPMENT, AND RELATED CABLING INSTALLED BY OTHERS IN CONTRACT 62A76. INSTALL 12 SMF LATERAL TO CABINET Y26 AND TERMINATE.

CONTRACT 60Y00

ITS CABINET, CABINET EQUIPMENT, AND CABLING INSTALLED BY OTHERS IN CONTRACT 62A76 AND CONTRACT 62A77. CONTRACT 60Y00 TO SPLICE 12 SMF

ITS CABINET Y27 (RANDOLPH STREET)

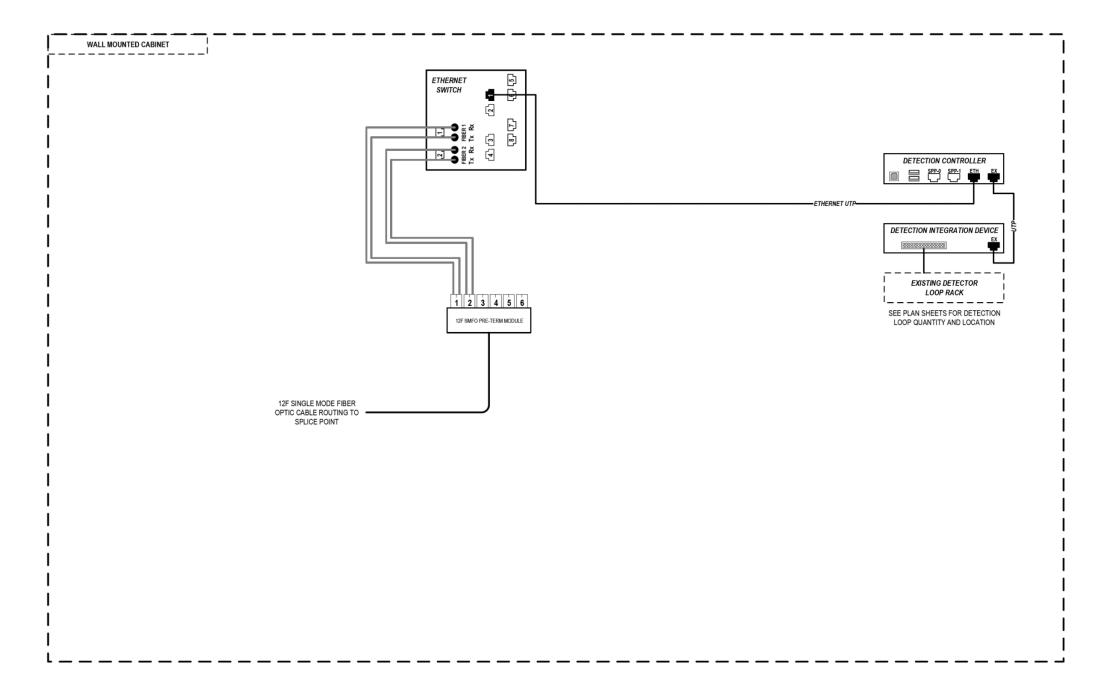
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, II. 60601-5276
PHONE: (312) 373-7707 FAX; (312) 373-6800

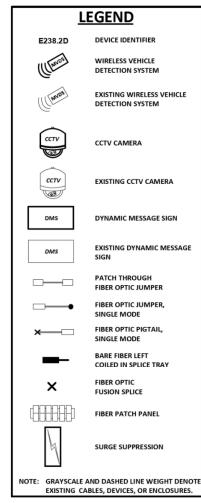
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	ILLINOIS	FED. AI	D PROJECT		
	ILLINOIS	FED. AI	D PROJECT		





CONTRACT 62A77

INSTALL ITS CABINET EQUIPMENT, RELATED CABLING AND 12 SMF LATERAL TO CABINET Y27 AND TERMINATE.

> ITS CABINET G36 (GREEN STREET)

AECOM

303 EAST WACKER DRIVE, SUITE 1400
CHICACO, IL GOSCO1-5276
PHONE (13/2) 373-7700 FAX (3/2) 373-6800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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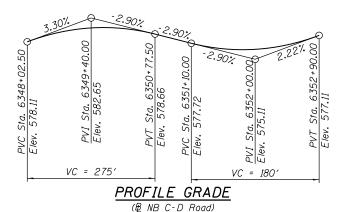
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					CONTRACT	NO. 6	2A76
		ILLINOIS	FED.	AID	PROJECT		

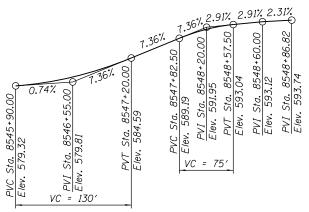
ITS-70

0161819-62A76-SHT-01-GPE.dgn Existing Structure: None. Traffic Control: Traffic will be maintained along NB I-90/94 lanes during construction. Bench Mark: Chisel "X" on east Proposed Storm Sewer Existing Storm Sewer Electric 2'-0" Shldr E1. 595 E1. 595 E1. 580 E1. 575 E1. 575 Combined Sewer LEGEND: 12'-0" 12'-0" Lane Lane Lane N 1 22'-6" * – End Ret. Wall Sta. 6350+71.83 Elev. 591.18 - End Retaining Wall Sta. 6350+71.83 ... Offset 44.14' RT **** to remain Existing Guardrail Edge of Shoulder at Face of Proposed Barrier (Elevation A) ** USER NAME = Keserovicm Existing Fence Θ side 30'-0" * 包 of I-90 ±80' S of Monroe Street on SE corner of Handhole on concrete. Elevation 578.58' Soll Boring Location 💠 Existing Fence Light Pole Fiber Optic Fire Hydrant Exist. Parking Lot Sta. 6350+20.17
Offset 43.33' RT 31-RWB-02 30'-0" * Kink Point 30-5T-01 **♦** Existing Grade at Front Face of Wall (Elevation C)** a a FO 30'-0" * AT & AT & ΒF FF = Front face of wall C = Construction Joint = Back face of wall Slope inclinometer, see Note A Proposed Wall 31 -(SN 016-1820) B Madison Exit Ramp NB C-D Road Proposed Retaining == Wall S.N. 016-1819 == Soldier **♦** 30-RWB-02 ELEVATION rilled Soldier Piles 30-PZ-01 (Looking East) Bottom of Fascia (Elevation E) ** Pile Retaining Wall PLAN 30'-0" * 255'-0" * Proposed Grade at Back Face of Wall VST-03 **�** Panel Proposed Roadway—
Barrier——. Proposed HMLT
(See Rdwy. Plans) - Soldier Piles, typ. 30'-0" * 4'-0" Parapet 6349 Proposed Grade at Front of Wall (Elevation B) ** 8346 Top of Fascia Panel (Elevation 30'-0" * STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION 1. Stations and offsets are measured along & NB C-D Road. NOTES: 2. Wall to be built along straight chards between construction & expansion joints. 4. For sequence of construction, see Sheet SI-02. 3. See Civil Plans for Pipe Underdrain to Drainage Structure Connection details = FF Wall Exist. HMLT
to be relocated
(See Rawy. Plans) 0)** 30'-0" * 31-RWB-01 Top 4'-6" Z of 22'-6" * to be removed (See Rdwy. Plans) — Exist. ITS handhole. Exist. ITS cabinet to be relocated (See Rdwy. Plans) ZE-+38" " " 0 30-RWB-01 6348 to remain Sta. 6348+17.67 | Offset 43.33' RT — Begin Ret. Wall Sta. 6348+17.67 Elev. 590.46 8345 —Exist. Siphon to remain Wall to remain C3-C3-C3-C3-C3-C3-C3-C3-C3 R GENERAL PLAN AND ELEVATION RETAINING WALL 30 (STRUCTURE NO. 016-1819) - B Monroe S.N. 016-Twp. 39N oe Bridge Abut. 016-1700 1 11 00 ATION SKETCH LS.N. 016-2017 -S.M. 016-2017 FOR STRUCTURAL ADEQUACY ONLY In addition to vibration and displacement monitoring, the contractor shall monitor ground movements with slope inclinometer. Install Slope inclinometer at Station 6348+30.38, offset 53.60' RT and Station 6349+79.23 offset 53.58' RT. All inclinometers shall be installed prior to drilling for soldier piles. See special provision Proposed Structure for Slope Inclinometers. ** See Sheet SI-03 for Elevation Table. * Measured along Front Face of Wall. ENGINEER OF BRIDGES & STRUCTURES f'c = 3,500 psi f'c = 7,000 psi (Concrete Encasement for Drilled Soldier Piles) fy = 60,000 psi (Reinforcement) fy = 50,000 psi (M270 Grade 50) (Soldier Piles) DESIGN SPECIFICATIONS 90/94 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition GENERAL PLAN & ELEVATION AMISH T. BHATT DATE 01/23/2020 LICENSE EXPIRES 11 /30 /2020 APPROVED DESIGN STRESSES Emish T. Blut STRUCTURE NO. 016-1819 STA. 6348+17.67 TO RETAINING WALL SECTION 2015-019R - IELD UNITS 2015-019R SECTION COOK COUNTY F.A.I. 90/94 6350+71.83 CONTRACT NO. 62A76 COUNTY 30 SHEETS NO.

GENERAL NOTES:

- 1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 2. Reinforcement bars designated "(E)" shall be epoxy coated.
- 3. Protective Coat shall be applied to exposed surfaces of the parapet and concrete sealer shall be applied to exposed surfaces of the facing.
- 4. Existing utilities in conflict with retaining wall construction shall be protected or relocated according to directions given on the roadway plans.
- 5. The Contractor shall exercise extreme caution during wall construction to make certain that construction activities, live load surcharge and other loads applied to the wall will not have detrimental effects on the adjacent structures, buildings and utilities. See Special Provision for Construction Vibration Monitorina.
- 6. The contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provision for Construction Vibration Monitoring, to ensure that construction activities in the vicinity of the structures do not have detrimental effects on exist. siphon and private property located behind the structure. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during construction activities to satisfy these requirements. See Contract Special Provisions for details.
- 7. Slipforming of parapet is not allowed.
- 8. The Contractor shall take all necessary precautions not to contaminate groundwater during the drilled shaft construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from Contractor's means and methods. No additional cost will be paid
- 9. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The contractor will not be compensated for issues related to the aroundwater elevation.
- 10. The Contractor shall provide a method to assure the soldier piles achieve at least the plan tip elevations. The soldier pile locations and elevations shall meet the tolerances provided in the Standard Specifications. Any additional measures required to satisfy the construction tolerances will not be paid for separately but shall be included in Drilling and Setting Soldier Piles (in Soil).
- 11. Any storage of construction equipment and material behind the wall is not allowed.
- 12. Earth excavation in front of wall shall be gradual and no more than 4'-0" of earth shall be excavated at a time in front of the wall. The elevation difference between adjacent excavated areas in front of wall shall not vary by more than 6'-0" over a distance of 50'-0" as measured along the length of the wall.
- 13. Contractor shall coordinate proposed wall construction with construction of Madison NB Exit Ramp and Retaining Wall 31 (SN 016-1820).
- 14. Concrete for Drilled Soldier Pile Encasement shall be in accordance with Section 522 of Standard Specifications. except that the mix design of concrete shall attain a compressive strength of 7,000 psi at 14 days. Soldier Pile Encasement shall extends from top of pile elevation to bottom of pile tip. Cost included with Drilling and Setting Soldier Piles (In Soil).
- 15. Temporary and permanent steel casing(s) shall be placed through the upper granular soils (sand and gravel) by twisting, screwing and pushing the casing into the underlying soft clay formation a sufficient distance to provide a watertight seal. Once this seal has been achieved, the soil and water inside the casing can be removed. The casing can then be extended to the required depth by twisting, screwing and pushing in conjunction with excavation inside of the casing. Extend the casing as necessary to control the inflow of groundwater. The drilled excavation shall not advance below the bottom of the casing during this installation.





PROFILE GRADE (B Madison NB Exit Ramp)

CURVE DATA

(NB C-D Road) Curve: P-NCD-NX-6 PI Sta. = 6345+36.95 $\Delta = 5^{\circ} 12' 37'' (LT)$ D = 1° 05′ 35" R = 5.242.00'T = 238.51' L = 476.70'E = 5.42'e = RC T.R. = NAS.E. Run = NA P.C. Sta. = 6342+98.44 P.T. Sta. = 6347+75.14

SEQUENCE OF CONSTRUCTION:

- Locate existing utilities that are to remain. Contractor to coordinate any required improvements to, or removals of, existing utilities with utility owner.
- 2. Drill for Soldier Pile shafts with Permanent Casing, install soldier piles and concrete encasement.
- Excavate earth in front and perform excavation for Retaining Wall 31 (SN 016-1820). Install timber lagging between soldier pile shafts.
- 4. Construct concrete fascia and concrete gutter behind the wall as shown in the plans.

INDEX OF SHEETS:

S1-06 Plan and Elevation III S1-07 Soldier Pile Wall Sections, Details and Bill of Materia S1-08 Soldier Pile Layout S1-09 Architectural Details S1-10 Boring Logs I S1-11 Boring Logs II S1-12 Boring Logs III S1-13 Boring Logs IV S1-14 Boring Logs V S1-15 Boring Logs VI S1-16 Boring Logs VII S1-17 Boring Logs VIII S1-18 Boring Logs VIII S1-18 Boring Logs IX	S2-02 S1-03 S1-04 S1-05 S1-06 S1-07 S1-08 S1-09 S1-10 S1-11 S1-12 S1-13 S1-14 S1-15 S1-16 S1-16	Soldier Pile Wall Sections, Details and Bill of Material Soldier Pile Layout Architectural Details Boring Logs I Boring Logs II Boring Logs III Boring Logs IV Boring Logs V Boring Logs V Boring Logs VII Boring Logs VII Boring Logs VIII Boring Logs VIII Boring Logs VIII
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TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	373
Concrete Structures	Cu Yd	173.7
Concrete Superstructure	Cu Yd	56.5
Protective Coat	Sq Yd	262
Stud Shear Connectors	Each	333
Reinforcement Bars, Epoxy Coated	Pound	32770
Name Plates	Each	1
Permanent Casing	Foot	2252
Furnishing Soldier Piles (W Section)	Foot	2252
Drilling And Setting Soldier Piles (In Soil)	Cu Ft	64730
Untreated Timber Lagging	Sq Ft	1465
Concrete Sealer	Sq Ft	2680
Geocomposite Wall Drain	Sq Yd	177
Pipe Underdrains For Structures 4"	Foot	255
Slope Inclinometer	Each	2

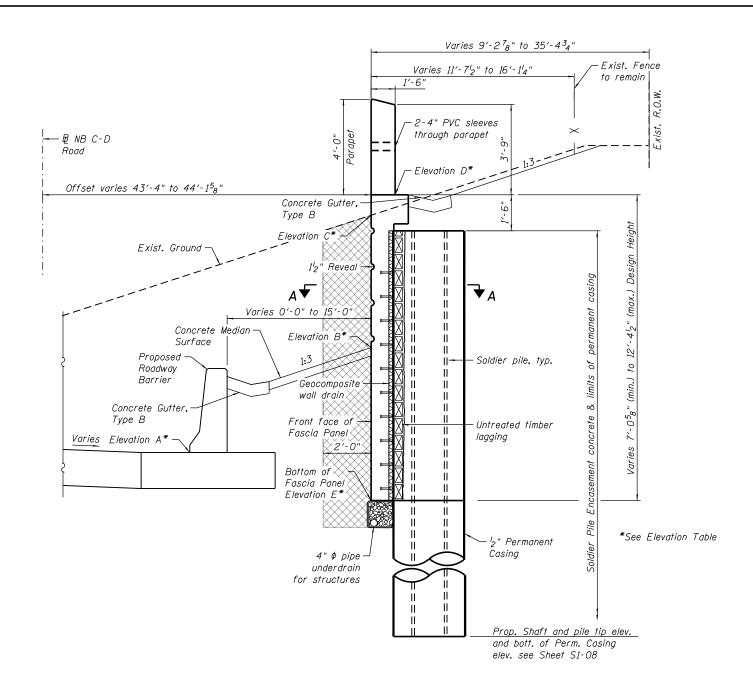
STATION 6348+17.67 TO 6350+71.83 BUILT 20__ BY STATE OF ILLINOIS F.A.I RTE. 90/94 SEC 2015-019R LOADING HL-93 STRUCTURE NO. 016-1819

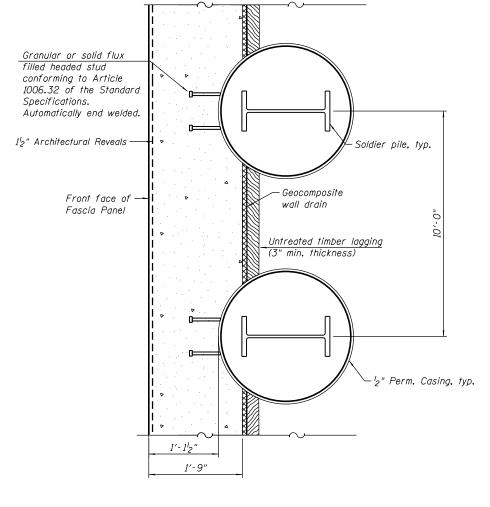
See Std. 515001

AECOM

USER NAME = keserovicm	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

GENERAL NOTES, INDEX OF SHEETS, TOTAL BILL OF MATERIAL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RETAINING WALL 30 (STRUCTURE NO. 016-1819)	90/94	2015-019R	COOK	2155	1184
HETAINING WALE OF (STROUTURE NO. 010 1013)		•	CONTRACT	NO. 6	2A76
SHEET NO. S1-02 OF 18 SHEETS		THE THOUGHT FED. AT	D DDO IECT		





SECTION A-A

LEGEND:



Structure excavation

NOTES:

- 1. Structure Excavation is measured 2'-0" from front face of the wall to back of soldier pile concrete fascia panel.
- 2. See Sheet S1-04 for joint details and Sheet S1-05 for pipe underdrain details.
- 3. See Sheet S1-07 for stud shear connector detail and parapet joint detail.
- 4. See Sheet S1-08 for soldier pile layout.
- 5. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

TYPICAL SECTION SOLDER PILE RETAINING WALL

(Looking North)

ELEVATION TABLE

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
6348+17.67	43.33' RT	<i>578.02</i>	585 . 23	589 . 63	590.46	580.32
6348+25.00	43.33′ RT	578 . 21	585 . 17	<i>588.77</i>	<i>590.39</i>	580.11
6348+50.00	43.33′ RT	<i>578.78</i>	<i>584.86</i>	<i>589.22</i>	<i>590.13</i>	<i>579.39</i>
6348+75.00	43.33′ RT	579 . 16	584 . 38	589.10	589 . 88	<i>578.32</i>
6349+00.00	43.33′ RT	579.41	583 . 84	<i>588.89</i>	589.62	577.24
6349+25.00	43.33′ RT	579 . 94	583 . 68	589.06	589 . 85	<i>577.52</i>
6349+50.00	43.33′ RT	580.79	<i>584.51</i>	<i>589.19</i>	590.07	577.79
6349+75.00	43.33′ RT	581 . 96	585 . 88	589 . 22	590 . 30	<i>579.05</i>
6350+00.00	43.33′ RT	<i>583.45</i>	<i>586.95</i>	589 . 27	<i>590.53</i>	<i>580.30</i>
6350+25.00	43.38′ RT	585 . 21		589.48	<i>590.75</i>	<i>582.12</i>
6350+50.00	43.61′ RT	587.08		590.05	<i>590.98</i>	<i>583.93</i>
6350+71.83	44.14′ RT	588.73		590.66	591 . 18	584.13

Elevation A: Edge of Shoulder at Face of Proposed Roadway Barrier.

Elevation B: Proposed Grade at Front Face of Wall.

Elevation C: Existing Grade at Front Face of Wall.

Elevation D: Top of Fascia Panel.

Elevation E: Bottom of Fascia Panel.

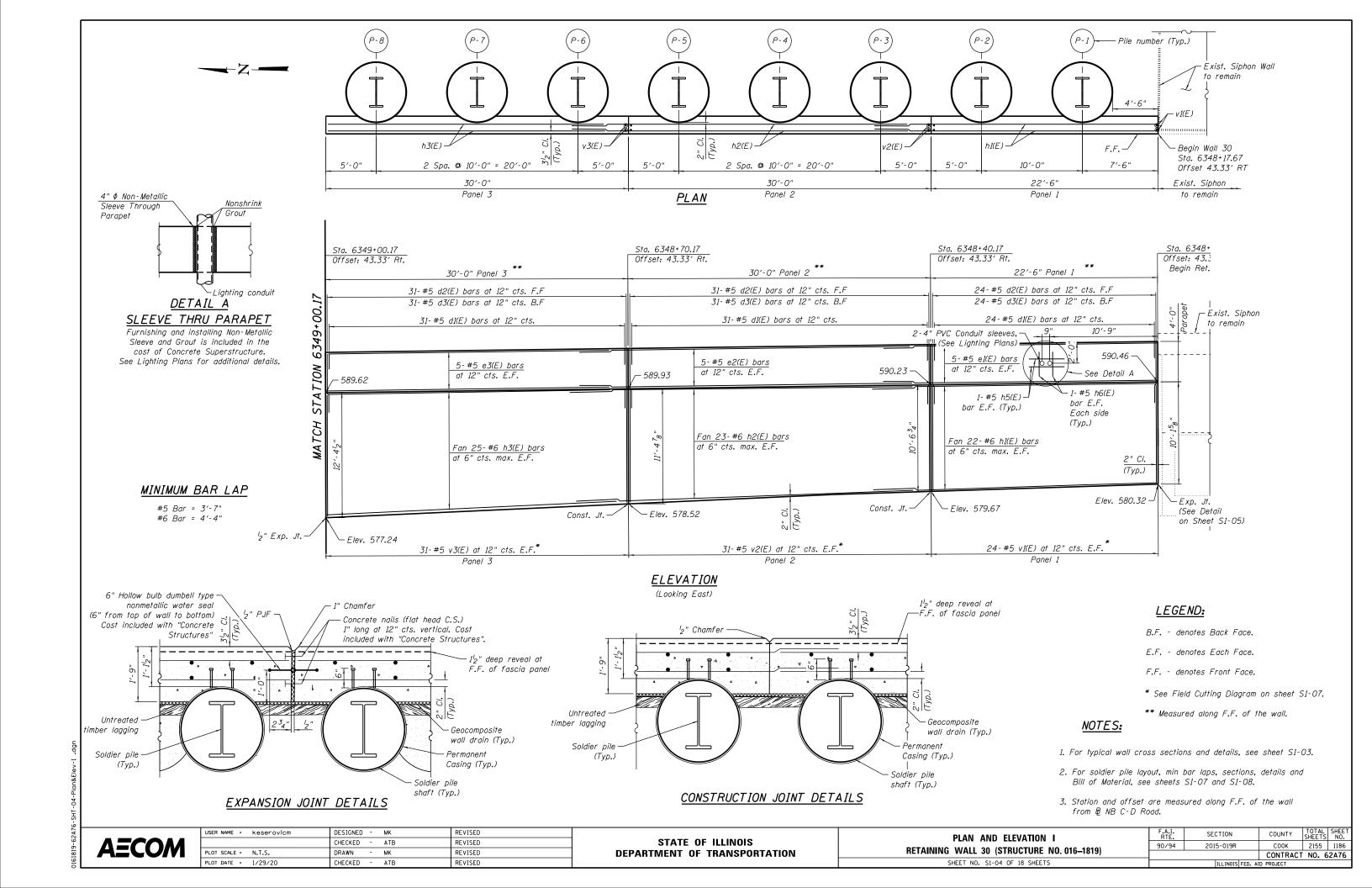
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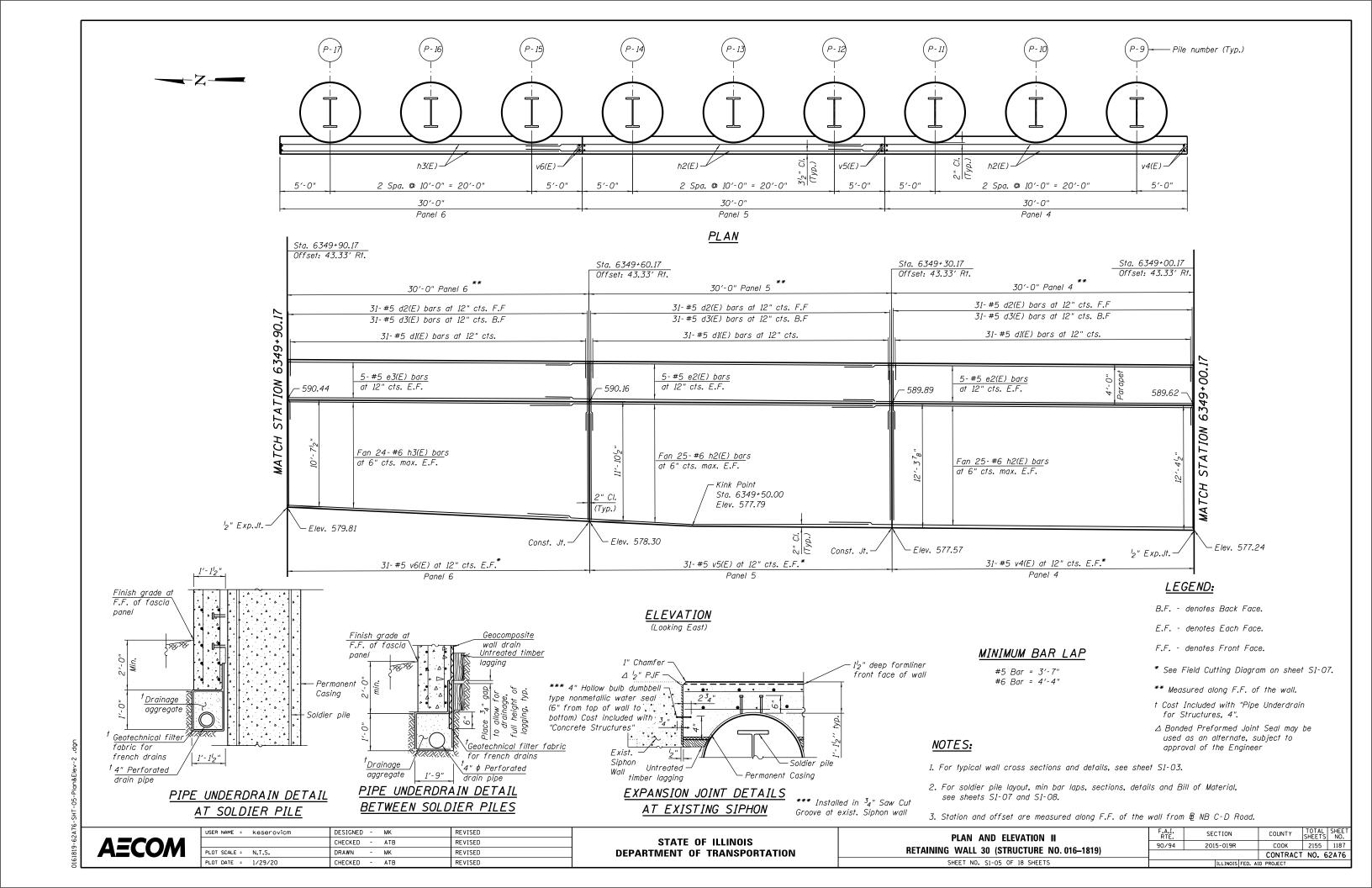
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	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

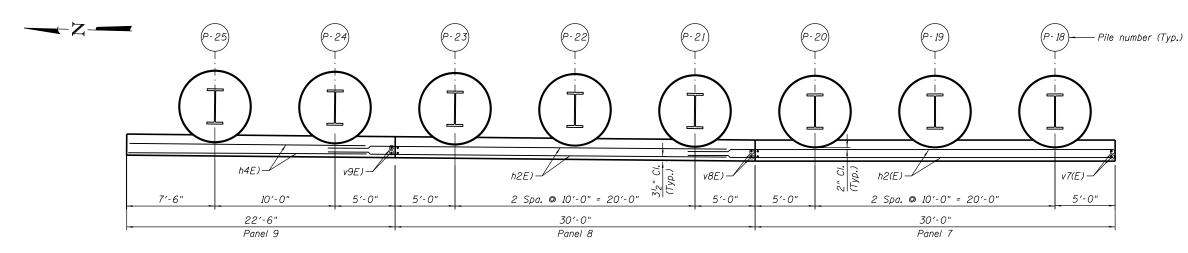
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE WALL TYPICAL CROSS SECTIONS AND DETAILS
RETAINING WALL 30 (STRUCTURE NO. 016-1819)
CUEET NO. CLOZ OF 10 CUEETS

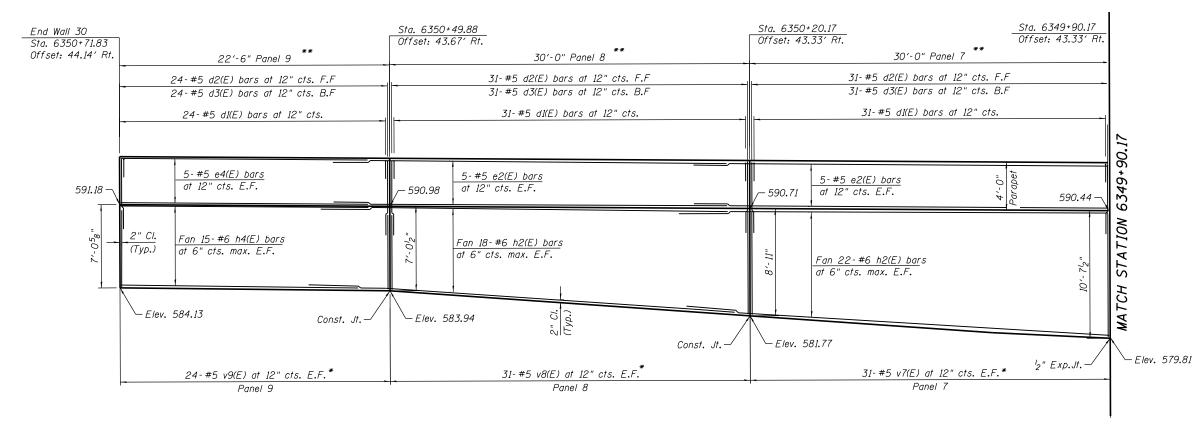
F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
90/94	2015-019R			COOK	2155	1189
				CONTRAC	NO. 6	2A76
	I	LLINOIS	FED. A	D PROJECT		







PLAN



ELEVATION (Looking East)

MINIMUM BAR LAP

#5 Bar = 3'-7"

#6 Bar = 4'-4"

<u>LEGEND:</u>

B.F. - denotes Back Face.

E.F. - denotes Each Face.

F.F. - denotes Front Face.

* See Field Cutting Diagram on sheet S1-07.

** Measured along F.F. of the wall.

NOTES:

- 1. For typical wall cross sections and details, see sheet S1-03.
- 2. For soldier pile layout, min bar laps, sections, details and Bill of Material, see sheets S1-07 and S1-08.
- 3. Station and offset are measured along F.F. of the wall from ₩ NB C-D Road.

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 USER NAME = Keserovicm
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 REVISED

 PLOT SCALE = N.T.S.
 DRAWN - MK
 REVISED

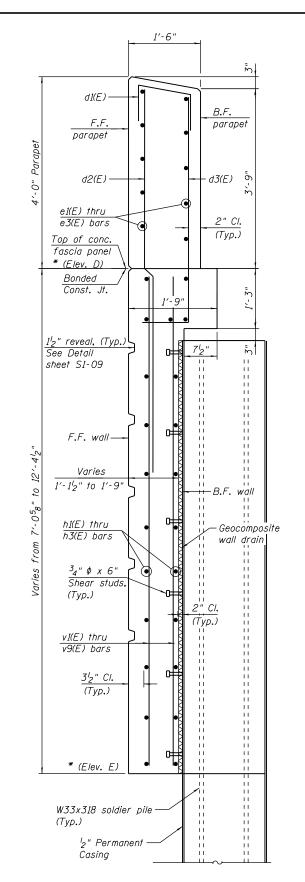
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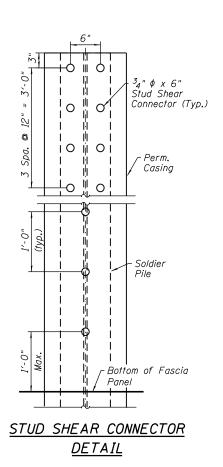
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION III
RETAINING WALL 30 (STRUCTURE NO. 016–1819)
SHEET NO. S1-06 OF 18 SHEETS

F.A.I. SECTION COUNTY TOTAL SHEETS NO.
90/94 2015-019R COOK 2155 1188

CONTRACT NO. 62A76

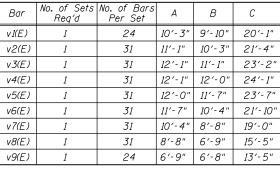


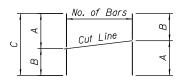


1'-6"

0

BAR TABLE SCHEDULE В





BAR CUTTING DIAGRAM

⁵8" ∮ Backer

Order v1 thru v9 bars full length. Cut as shown and use remainder of bars in opposite face of wall. See table for dimensions.

Non-staining gray one component

non-sag elastomeric gun grade

Type S, Grade NS, Class 25,

Use T with a $^{5}8$ " backer rod.

2" Preformed Self-

included with Concrete

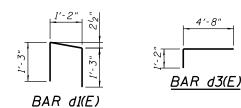
Superstructure.

PARAPET JOINT DETAILS

Expanding Cork Joint Filler

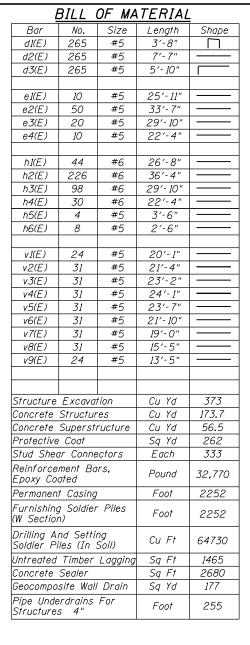
according to Article 1051.07 of the Std. Spec. Cost

polyurethane sealant meeting the requirements of ASTM C-920,



MIN. BAR LAPS

<u></u>	
Bar	Lap
#5	3′-7"
#6	4'-4"



NOTES:

- 1. Soldier pile encasement concrete extends from top of pile elevation to bottom of pile tip. Cost shall be included with Drilling and Setting Soldier Piles (In Soil).
- 2. The geocomposite wall drain shall be constructed according to Section 591 of the Standard Specifications.
- 3. Stud shear connectors shall be ${}^{3}_{4}$ " ϕ x 6" granular or solid flux filled headed studs, automatically end welded to the permanent casing.
- 4. See sheet S1-05 for Pipe Underdrain details.
- 5. See sheet S1-09 for Architectural Reveals pattern and details. Reveals shall not be paid separately and shall be considered included with the cost of Concrete Structures.
- 6. ¹₂" Preformed Flexible Foam Expansion Joint Filler shall be applied per Section 1051.09 of the Standard Specifications. Cost of joint treatments shall be included with the cost of Concrete Structures.
- 7. For Wall Elevations Table, see sheet S1-03.
- 8. Stations and offsets are measured along & NB C-D Road.

LEGEND:

B.F. - denotes Back Face. F.F. - denotes Front Face.

COUNTY

COOK 2155 1189

CONTRACT NO. 62A76

TYPICAL SOLDIER PILE WALL CROSS SECTION

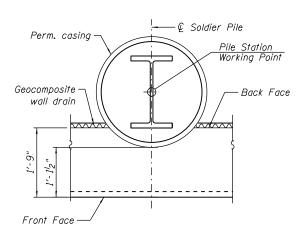
* See Elevation Table on sheet S1-03.

USER NAME = keserovicm	DESIGNED - MK	REVISED	
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PLOT DATE = 1/29/20	CHECKED - ATB	REVISED	
		,	

SOLDIER PILE WALL SECTIONS, DETAILS AND BILL OF MATERIAL	F.A.I. RTE.	SECTION
RETAINING WALL 30 (STRUCTURE NO. 016-1819)	90/94	2015-019R
HETAIIIII WALE OF (OTHOUTONE 180: 010 1013)		
SHEET NO. S1-07 OF 18 SHEETS		ILLINOIS FE

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SOLDIER PILE LAYOUT



SOLDIER PILE WORKING POINT

Pile	Station at Working Point	Offset	Top of Fascia Panel	Top of Pile Elev. & Top of Perm. Casing Elev.	Bott. Of Wall Elev.	Section	Shaft Diameter	Pile Tip Elev.	Pile Length	Bott. Of Perm. Casing Elev.	Perm. Casing Length
P-01	6348+25.18	47.46′ RT.	590.39	588.89	580.10	W33x318	6′-0"	499.10	89.78	499.10	89.78
P-02	6348+35.18	47.46′ RT.	590.28	588.78	579.82	W33x318	6′-0"	498.82	89.97	498.82	89.97
P-03	6348+45.18	47.46′ RT.	590 . 18	588.68	579.53	W33x318	6′-0"	498.53	90.15	498.53	90.15
P-04	6348+55.18	47.46′ RT.	590.08	588.58	579.17	W33x318	6′-0"	498.17	90.41	498.17	90.41
P-05	6348+65.18	47.46′ RT.	589.98	588.48	578.74	W33x318	6′-0"	497.74	90.74	497.74	90.74
P-06	6348+75.18	47.46′ RT.	589.88	588.38	578.31	W33x318	6′-0"	497.31	91.07	497.31	91.07
P-07	6348+85.18	47.46′ RT.	589.77	<i>588.27</i>	577.88	W33x318	6′-0"	496.88	91.39	496.88	91 . 39
P-08	6348+95.18	47.46′ RT.	589.67	588.17	577.45	W33x318	6′-0"	496.45	91.72	496.45	91.72
P-09	6349+05.18	47.46′ RT.	589.67	588.17	577.30	W33x318	6′-0"	496.30	91.87	496.30	91.87
P-10	6349+15.18	47.46′ RT.	589.76	588.26	577.41	W33x318	6′-0"	496.41	91.85	496.41	91.85
P-11	6349+25.18	47.46′ RT.	589.85	<i>588.35</i>	577.52	W33x318	6′-0"	496.52	91.83	496.52	91.83
P-12	6349+35.18	47.46′ RT.	589.94	588.44	577.63	W33x318	6′-0"	496.63	91.81	496.63	91.81
P-13	6349+45.18	47.46′ RT.	590.03	588.53	577.74	W33x318	6′-0"	496.74	91.79	496.74	91.79
P-14	6349+55.18	47.46′ RT.	590.12	588.62	578.05	W33x318	6′-0"	497.05	91.57	497.05	91.57
P-15	6349+65.18	47.46′ RT.	590.21	588.71	578.56	W33x318	6′-0"	497.56	91.15	497.56	91.15
P-16	6349+75.18	47.46′ RT.	590.30	588.80	579.06	W33x318	6′-0"	498.06	90.74	498.06	90.74
P-17	6349+85.18	47.46′ RT.	590.39	588.89	579.56	W33x318	6′-0"	498.56	90.33	498.56	90.33
P-18	6349+95.18	47.46′ RT.	590.49	588.99	580.06	W33x318	6′-0"	499.06	89.93	499.06	89.93
P-19	6350+05.18	47.46′ RT.	590.58	589.08	580.68	W33x318	6′-0"	499.68	89.40	499.68	89.40
P-20	6350+15.18	47.46′ RT.	590.66	589 . 16	581.41	W33x318	6′-0"	500.41	88.76	500.41	88.76
P-21	6350+25.18	47.50′ RT.	590.75	589.25	582.13	W33x318	6′-0"	501.13	88.12	501.13	88.12
P-22	6350+35.17	47.60′ RT.	590.84	589.34	582.86	W33x318	6′-0"	501.86	87.49	501.86	87.49
P-23	6350+44.96	47.72′ RT.	590.93	589.43	<i>583.57</i>	W33x318	6′-0"	502.57	86.87	502.57	86.87
P-24	6350+54.76	47.88′ RT.	591.02	589.52	583.97	W33x318	6′-0"	502.97	86.55	502.97	86.55
P-25	6350+64.55	48.08′ RT.	591.11	589.61	584.06	W33x318	6′-0"	503.06	86.55	503.06	86.55

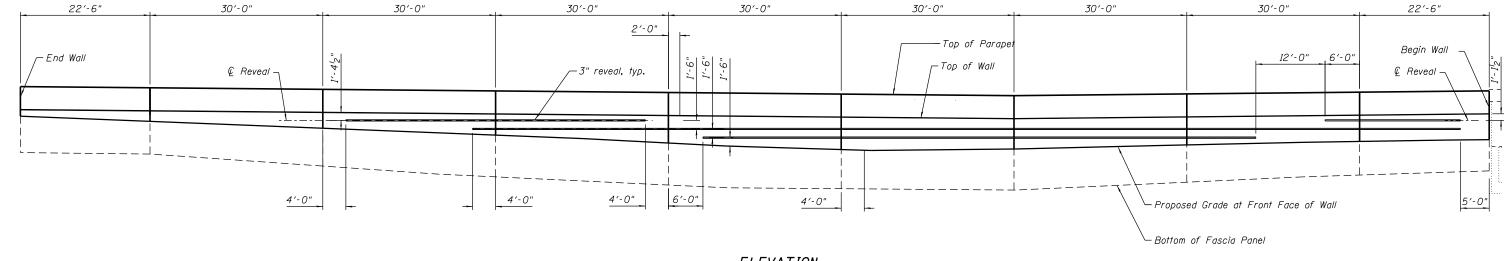
<u>NOTES:</u>

1. See Sheet S1-07 for Typical Soldier Pile Wall cross section.

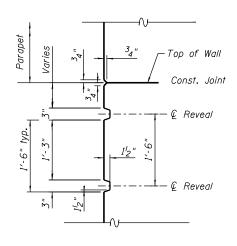


USER NAME = keserovicm	DESIGNED - MK	REVISED
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PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(Looking East)



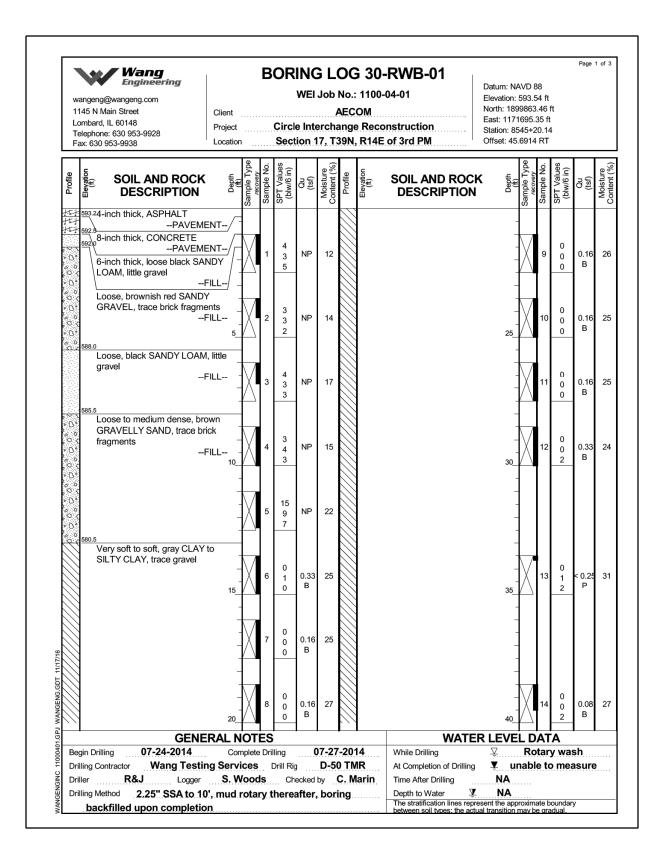
REVEAL DETAIL

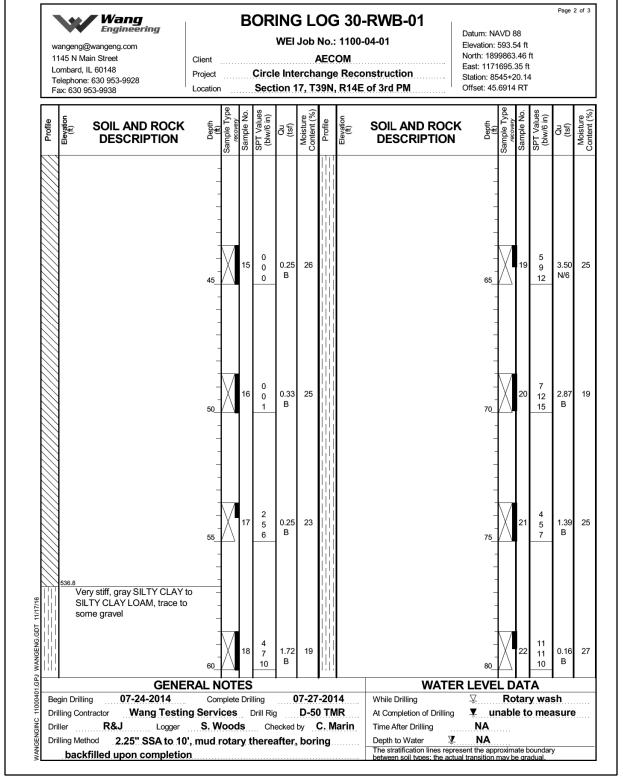
- 1. Reveals shall not be paid separately and shall be considered included with the cost of Concrete Structures.
- 2. All lengths are measured along the F.F. of Fascia Panel.

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F.A.I. SECTION COUNTY TOTAL	CHEET
	NO.
ETAINING WALL 30 (STRUCTURE NO. 016–1819) 90/94 2015-019R COOK 2155	1191
CONTRACT NO. 62	2A76
SHEET NO. S1-09 OF 18 SHEETS ILLINOIS FED. AID PROJECT	

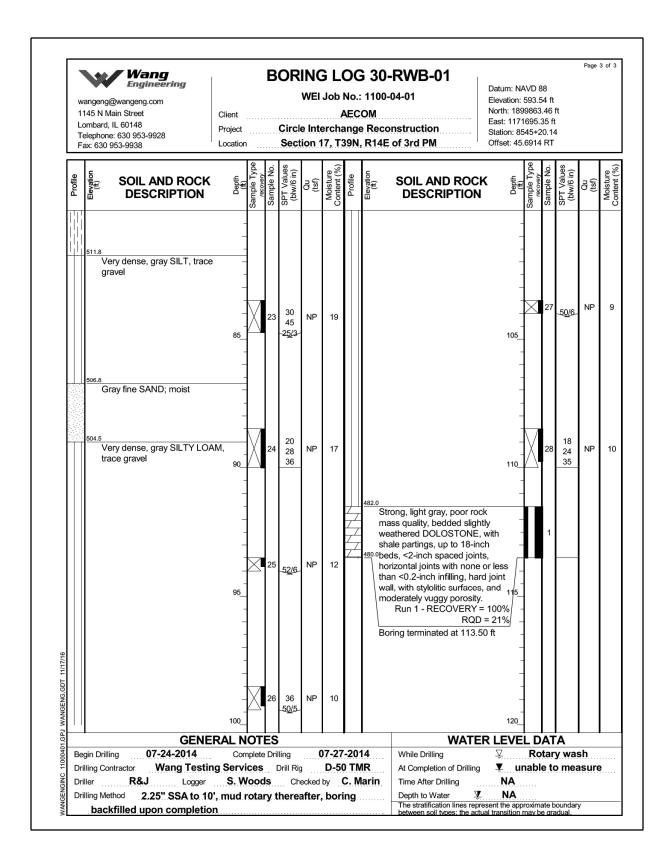


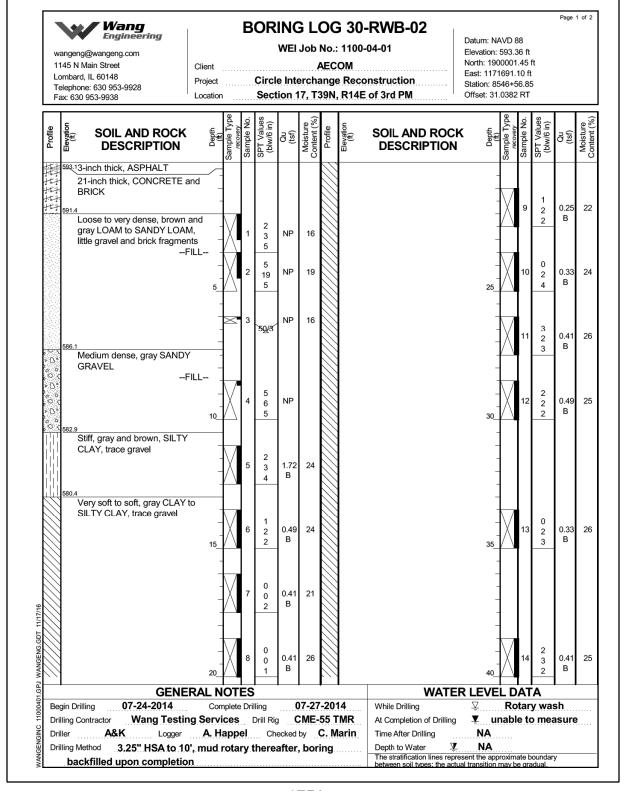


- 1. Station and offset are measured along & Madison Exit Ramp.
- 2. Boring Log 30-RWB-01 along ₧ NB C-D Road; Sta. 6348+11.28, Offset 69.98′ RT.



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PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

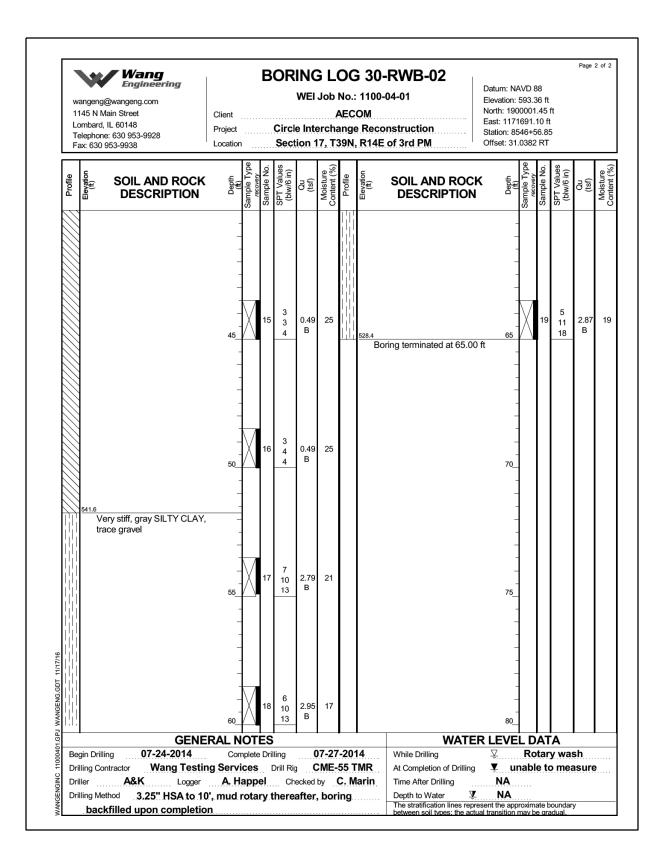


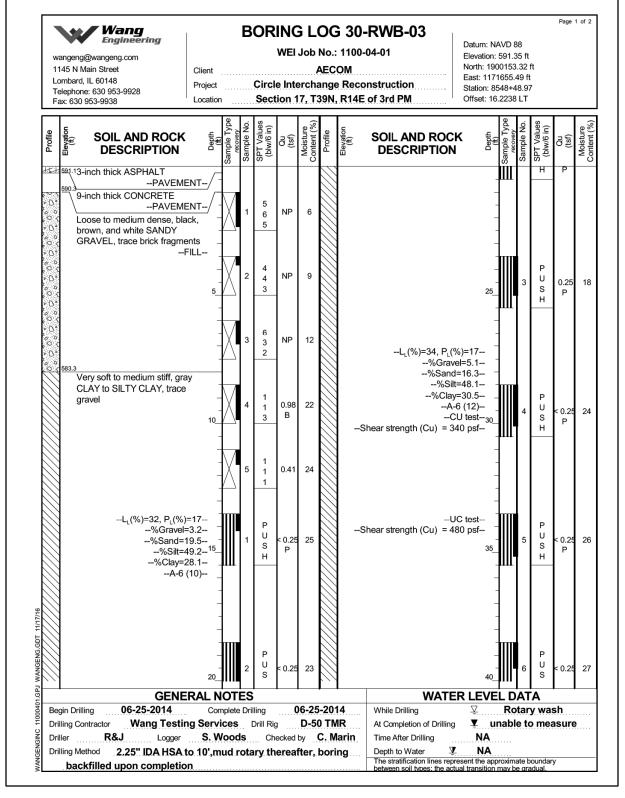


- 1. Station and offset are measured along & Madison Exit Ramp.
- 2. Boring Log 30-RWB-01 along ₺ NB C-D Road; Sta. 6348+11.28, Offset 69.98' RT.
- 3. Boring Log 30-RWB-02 along № NB C-D Road; Sta. 6349+49.33, Offset 69.57′ RT.



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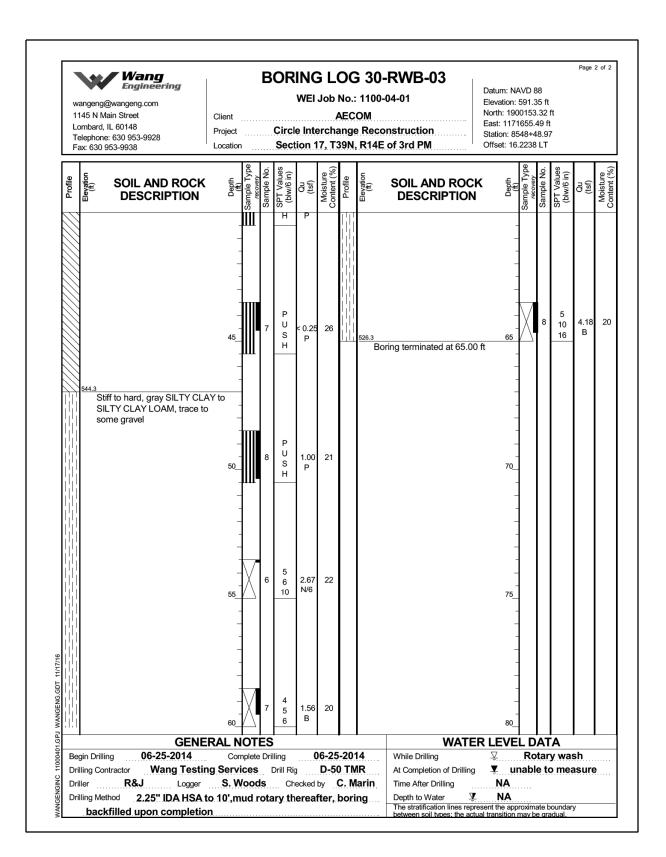


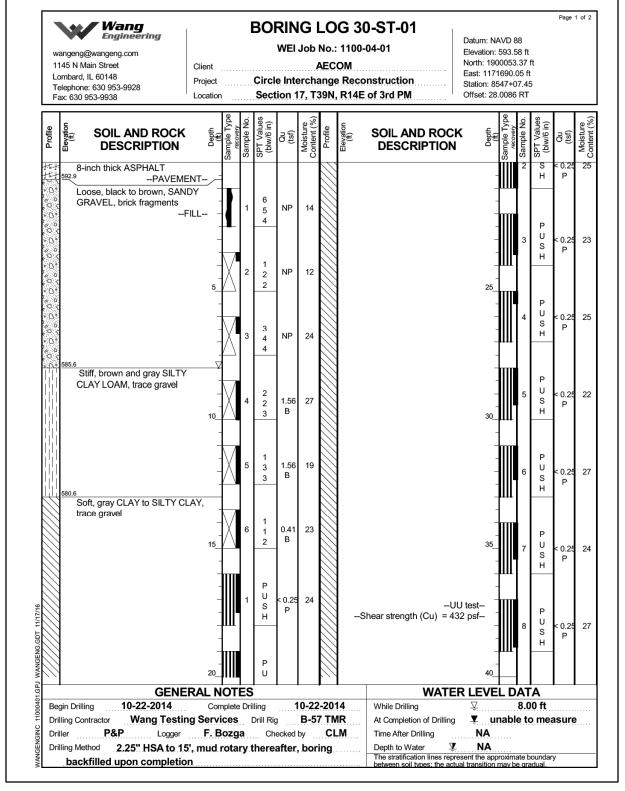


- 1. Station and offset are measured along ₩ Madison Exit Ramp.
- 2. Boring Log 30-RWB-02 along & NB C-D Road; Sta. 6349+49.33, Offset 69.57' RT.
- 3. Boring Log 30-RWB-03 along ₧ NB C-D Road; Sta. 6351+01.01, Offset 39.18′ RT.



USER NAME = keserovicm	DESIGNED - MK	REVISED
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PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

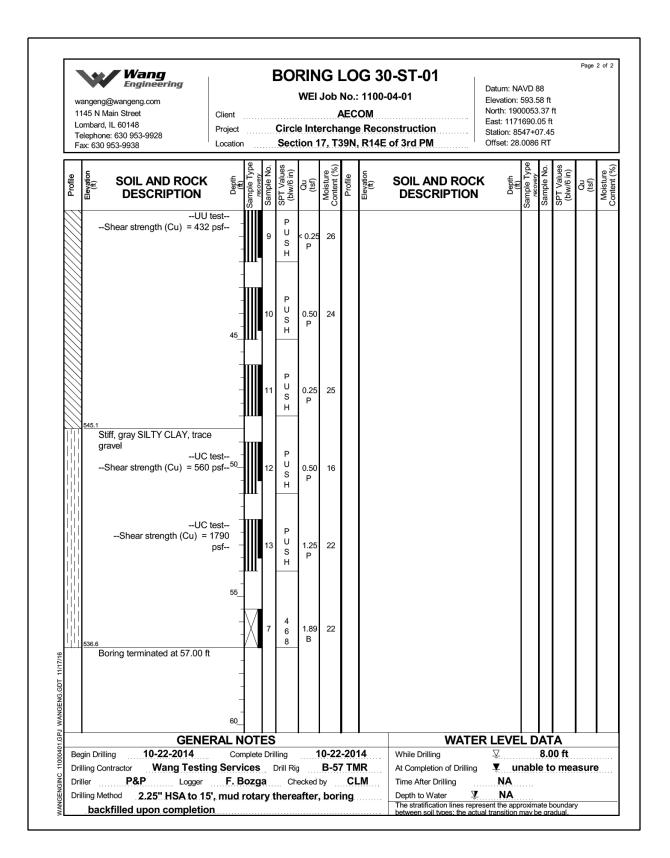


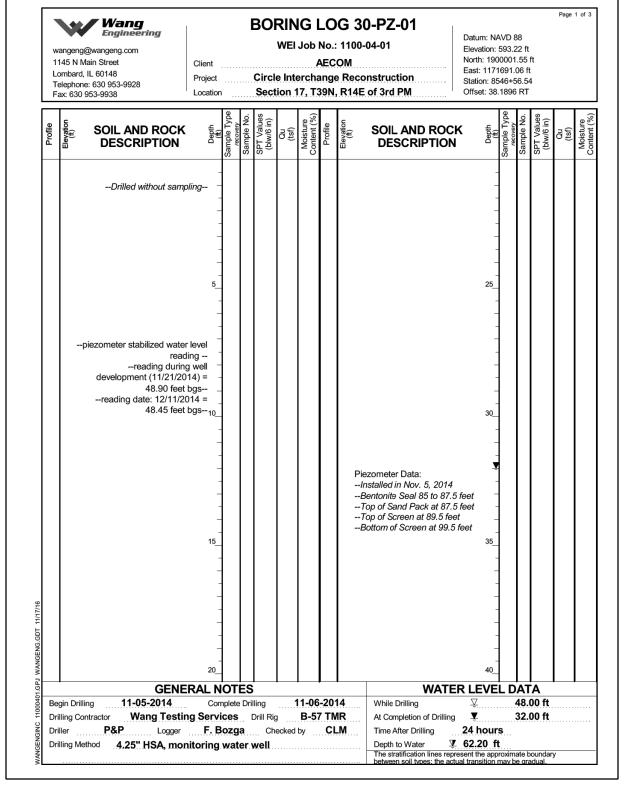


- 1. Station and offset are measured along B Madison Exit Ramp.
- 2. Boring Log 30-RWB-03 along & NB C-D Road; Sta. 6351+01.01, Offset 39.18' RT.
- 3. Boring Log 30-ST-01 along & NB C-D Road; Sta. 6350+01.26, Offset 69.97' RT.



USER NAME = keserovicm	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED





- 1. Station and offset are measured along

 B. Madison Exit Ramp.

 3. Boring Log 30-PZ-01

 along B. NB C-D Road;

 Sta. 63/8+48/39 Offset
- 2. Boring Log 30-ST-01 along ₺ NB C-D Road; Sta. 6350+01.26, Offset 69.97' RT.

3. Boring Log 30-PZ-01 along ₧ NB C-D Road; Sta. 6349+48.39, Offset 76.67′ RT.



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PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

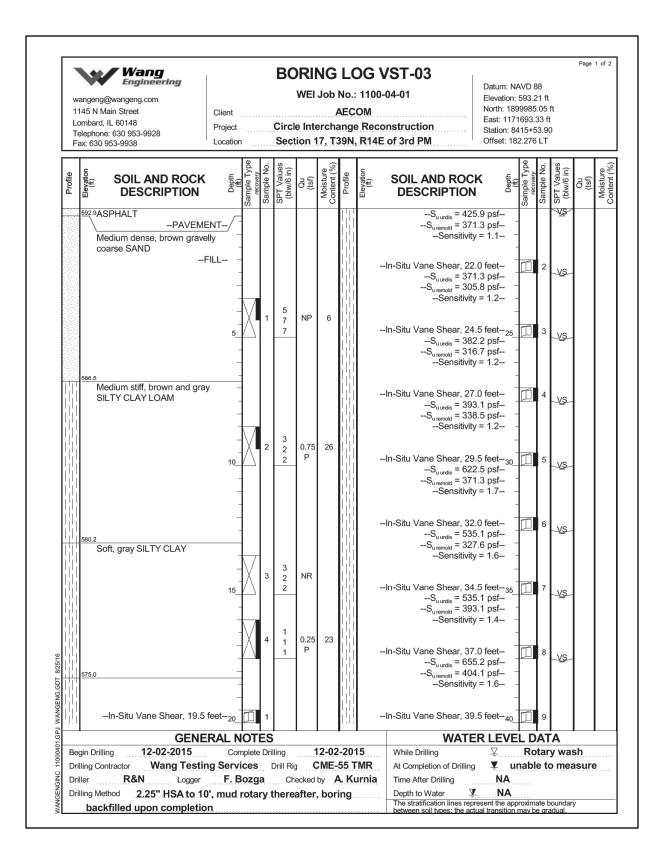
-	₩ // War	ng .			F	301	SIN	IG I	(G 3	80-PZ-01					Page	2 of 3
11 Lo	Engin angeng@wangeng.cd 145 N Main Street ombard, IL 60148 elephone: 630 953-99 ax: 630 953-9938		Client Project Location		9	Circl	WEI	Job / ercha	No.: AEC	1100 OM e Rec	0-04-01 onstruction E of 3rd PM	Datum: NA Elevation: 9 North: 190 East: 1171 Station: 85 Offset: 38.	593.2 0001 691.0 46+5	22 ft .55 f 06 ft 56.54			
Profile		ND ROCK CRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION	K Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture
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Dri Dri		Wang Testing Logger	•		-	-					At Completion of Drilling Time After Drilling	¥ 24 hours		3 Z .(JU TT		

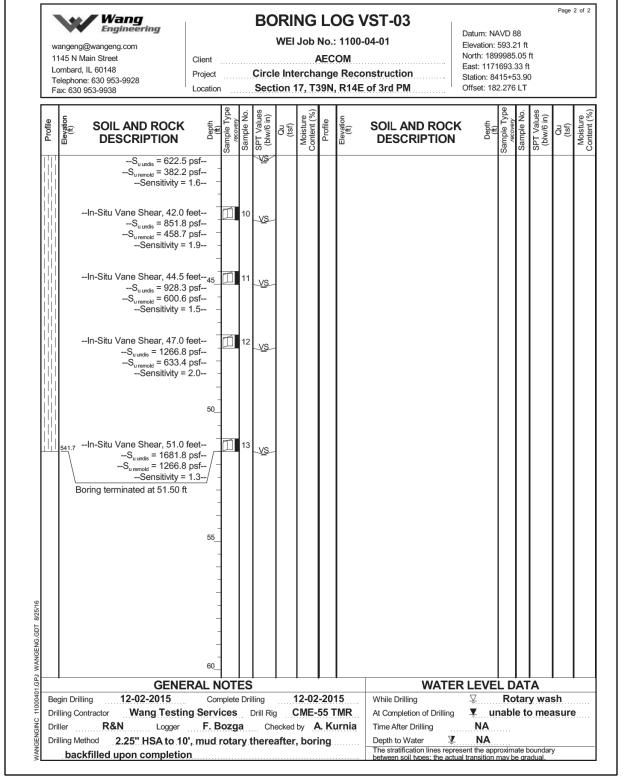
wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	Client Project Location	Cii	WE	l Job terch	No. AEC	: 1100 OM e Rec	0-PZ-01 -04-01 construction E of 3rd PM	Datum: NAVI Elevation: 59: North: 19000 East: 117169 Station: 8546 Offset: 38.18	3.22 ft 01.55 ft 1.06 ft +56.54		_
SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No. SPT Values	(blw/6 in) Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION	Depth (ft)	Sample No.	(blw/6 in) Qu (tsf)	Moisture
Piezometer Data:Installed in Nov. 5, 2014Bentonite Seal 85 to 87.5 feTop of Sand Pack at 87.5 feTop of Screen at 89.5 feetBottom of Screen at 99.5 fe	eet -										
501.5	Wet90	1 2 2 2	1 NP	16							
Very dense, gray GRAVELL SAND	95 95	2 3 3 2	5 NP	8							
Boring terminated at 100.00 GENE Begin Drilling 11-05-2014 Drilling Contractor Wang Testing	ft RAL NOT		5 NP	6	6-20	14	WATE While Drilling	ER LEVEL	DATA 48.00		_
Drilling Contractor Wang Testin Driller P&P Logger Drilling Method 4,25" HSA, mor	g Services F. Bozg	Drill a	Rig Checked	B-5 l by	7 TN		At Completion of Drilling Time After Drilling	24 hours Z 62.20 ft	32.00	ft	

- 1. Station and offset are measured along & Madison Exit Ramp.
- 2. Boring Log 30-PZ-01 along ₧ NB C-D Road; Sta. 6349+48.39, Offset 76.67′ RT.



USER NAME = keserovicm	DESIGNED - MK	REVISED
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PLOT DATE = 1/29/20	CHECKED - ATB	REVISED





- 1. Station and offset are measured along ₽ Madison Exit Ramp.
- 2. Boring Log VST-03 along & NB C-D Road; Sta. 6349+32.87, Offset 71.35' RT.

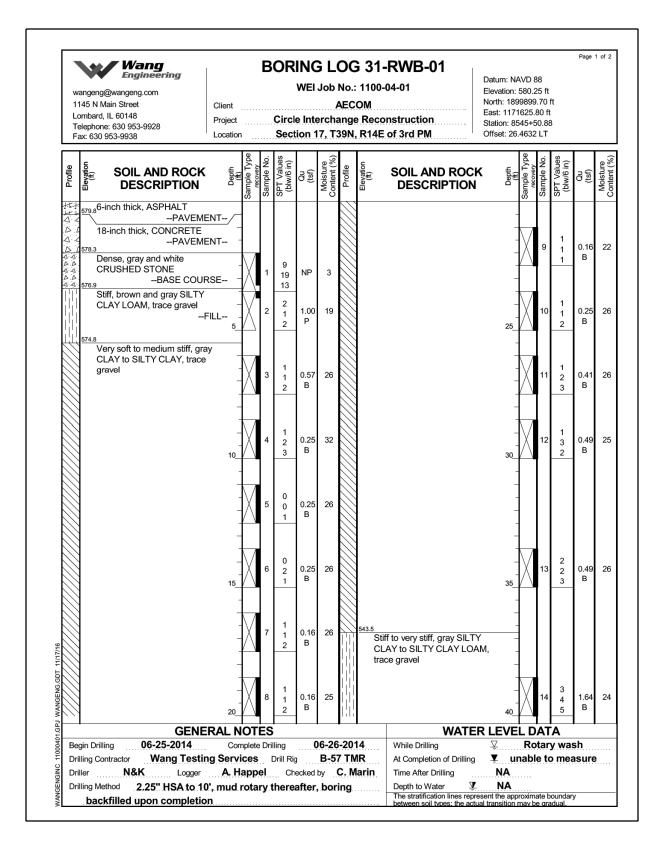
COUNTY

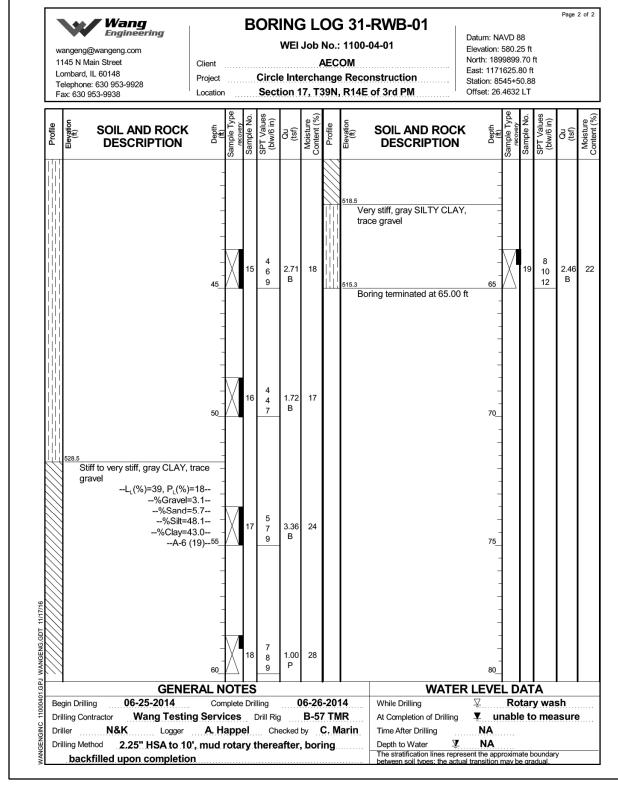
COOK 2155 1198

CONTRACT NO. 62A76



USER NAME = keserovicm	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED

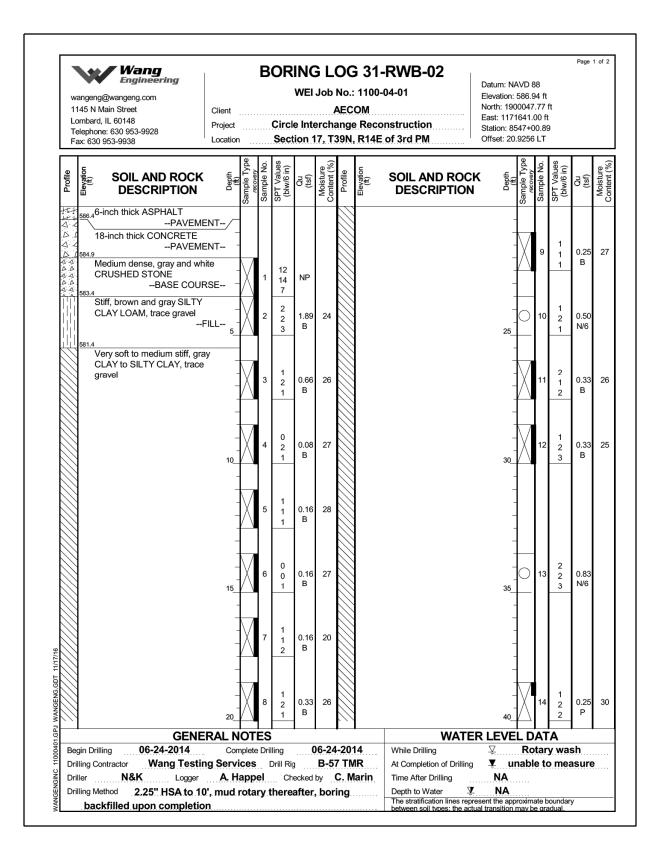


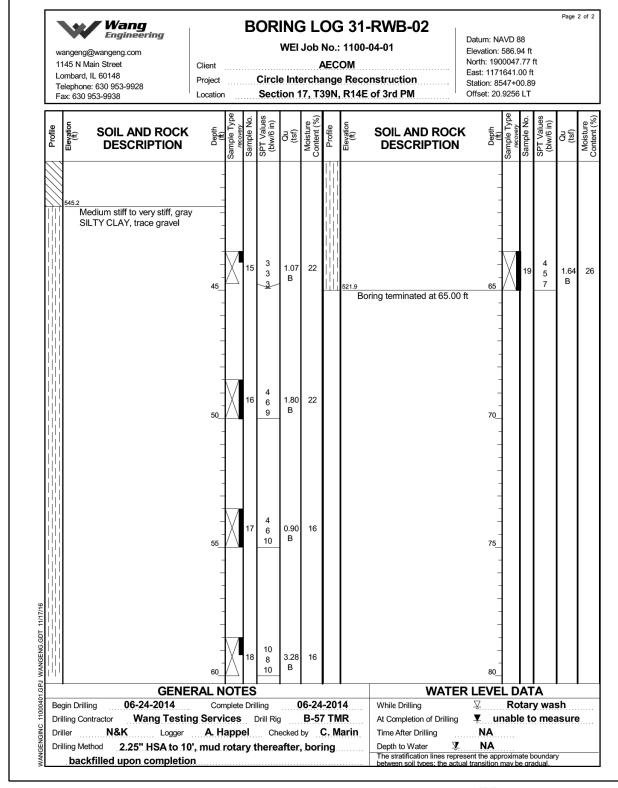


- 1. Station and offset are measured along ₽ Madison Exit Ramp.
- 2. Boring Log 31-RWB-01 along & NB C-D Road; Sta. 6348+49.40, Offset 1.44' RT.



USER NAME = keserovicm	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED





- 1. Station and offset are measured along ₩ Madison Exit Ramp.
- 2. Boring Log 31-RWB-02 along & NB C-D Road; Sta. 6349+97.02, Offset 20.78' RT.



USER NAME = keserovicm	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MK	REVISED
PLOT DATE = 1/29/20	CHECKED - ATB	REVISED